

# **Soderstrom** Architects

Facilities Assessment Report Parkrose School District Multnomah County, Oregon



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#### **Introduction - Team Members**

Soderstrom Architects was hired in 2021 to provide the Parkrose School District (District) with a Facilities Assessment Report (FAR), after being awarded a Technical Assistance Program (TAP) grant from the Oregon Department of Education (ODE). The following is a list of people and consultants contributing to the assessment process who have provided their time and effort to help everyone understand District needs and concerns.

#### **District Administration:**

Michael Lopes-Serrao, Superintendent Sharie Lewis, Director of Finance Robyn Stolin, Facilities Manager Jon Sanders, HVAC Specialist Sarah Lamp-Christensen, Director of Teaching and Learning Christine Blouke, Technology Director Andrew McLaughlin, IT Systems Support Ryan Gallagher, Athletic Director Debra Garza, Nutrition Services Julie Sams, Student Services Teresa Hooper, Transportation Michele Straub, Aquatics Kirstie Opel, Facilities Coordinator

#### Site-Based Administration:

Nichole Watson, Principal, Prescott Elementary Samantha Ragaisis, Principal Russell Academy Megan Filiault, Prinicipal, Sacramento Elementary Nathan Mount, Prinicipal, Shaver Elementary Annette Sweeney, Prinicipal, Parkrose Middle School Molly Ouche, Principal, Parkrose High School

#### Architectural:

Marlene Gillis, President, Soderstrom Architects Carson Shields, Project Manager, Soderstrom Architects Priya Kandharkar, Designer, Soderstrom Architects

#### Mechanical, Electrical and Plumbing:

Jianpeng Yang, Project Engineer, Ameresco

#### Structural:

Kristofer Tonning, Associate, ZCS Engineering

#	School Name	Grades Served	Attendance (2020-21)	School ID	ODE Building ID	Address
Elem	entary Schools (K - 5)					
01	Prescott Elementary School	K-5	331	925	21810100	10410 NE Prescott St., Portland, OR 97220
02	Russell Academy	K-5	371	926	21810200	2700 NE 127th Ave., Portland, OR 97230
03	Sacramento Elementary School	K-5	305	927	21810300	11400 NE Sacramento St., Portland, OR 97220
04	Shaver Elementary School	K-5	275	928	21810400	3701 NE 131st Pl., Portland, OR 97230
Midd	le Schools (6-8)					
05	Parkrose Middle School	6-8	778	930	21810500	11800 NE Shaver St., Portland, OR 97220
High	Schools (9-12)					
06A	Parkrose High School				21810600	
06B	Parkrose High School - Fine Arts Building	9-12	976	931	21810601	12003 NE Shaver St., Portland, OR 97220
06C	Parkrose High School - Stadium				21810602	
Distri	ict Rental / Leased Properties					
07	Sumner Elementary / Helensview School	9-12	MESD	2181	21810005	8678 NE Sumner St., Portland, OR 97220
08	Thompson Elementary / Wheatley School	6-8	MESD	2181	21810004	14030 NE Sacramento St., Portland, OR 97230
09	Knott Elementary / Knott Creek School	K-5	MESD	2181	21810003	11456 NE Knott St., Portland, OR 97220
Distri	ict Administration and Support	-				
10A	District Office				21810000	
10B	Maintenance Offices + Shop	N/A	N/A	2181	21810001	10636 NE Prescott St., Portland, OR, 97220
10C	Bus Barn + Shop				21810002	
	Total Er	rollment:	3,036			

### Introduction -

### Parkrose and Multnomah County, Oregon

Parkrose is a neighborhood in the Northeast section of Portland, Oregon and includes Maywood Park. The Parkrose plat was filed October 5, 1911. A branch post office of Portland was established there in 1921.

Parkrose had been a small farming and residential suburb of Portland until the 1920s. The Oregon Journal noted on May 23, 1925, "Parkrose is a primary commuting center. . . It is one of the most progressive and promising commuting districts on the eastern border of the city." A significant community identifier is the Rossi Farms property adjacent to the middle and high school, off NE 122nd north of Shaver Street. Planned development of these farms in the near future by the City of Portland will have significant impacts on future growth and enrollment for the District.

Parkrose was annexed by Portland, and the community was enumerated as a "Census-designated place" in 1980, when the community recorded a population of 21,108.

### Introduction - Parkrose School District

The Parkrose School District (District) is a small urban district in the northeast section of Portland with four (4) elementary schools, one (1) middle school and one (1) high school serving the community. The District began in 1885 as a schoolhouse on Sandy and 122nd. District records begin in the summer of 1913 with 131 students enrolled, ranging in age from four to 19.

That same year, the district bonded for \$10,000 to construct and furnish a four-room building, Parkrose Elementary at 106th and Wygant. The upper floor became the first Parkrose high school a few years later. In the mid-1920s, a \$31,000 bond measure passed, 72-9, and a new brick high school, Prescott High School, was built at 10629 NE Prescott.

The growth of the 1950s and 1960s created a building boom, with Prescott Elementary completed in 1947, the new Parkrose High School in 1950, Knott Street Elementary in 1951, Sumner Elementary in 1954, Thompson Elementary in 1957, Parkrose Heights Junior High in 1957, Sacramento Elementary in 1960, Parkrose Middle School (Formerly Fremont) in 1961, Shaver Elementary in 1963 and Russell Elementary in 1963.

District enrollment peaked during the 1969-70 school year at 5,656, with just over 1,400 of those high school students. Enrollment reduced and then leveled off in the 1980s and has stayed fairly stable between 3,300 and 3,500 since. Three schools (Knott, Thompson, and Heights) are rented to other education providers. Parkrose High School was built in 1950 and received a significant replacement in the late 1990s, replacing all but the "Fine Arts Building," which is still in use today. In the spring of 2011, by a margin of 6 votes, the

Parkrose voters approved a \$63 million bond measure. This bond allowed the district to completely replace Parkrose Middle School and renew all four elementary schools.





### Purpose

This report is an evaluation of the existing District buildings, all built at different times using a variety construction methods. Using the Oregon Department of Education's School Facilities Assessment Template, this report identifies the cost of deferred maintenance for each of the school buildings relative to complete replacement versus 'As New' condition.

The purpose of this report is to provide the District with a thorough evaluation of existing buildings and site conditions, including recommended remediation steps for all buildings evaluated. The assessment is a multidisciplinary on-site inspection of the existing buildings that focuses specifically on architectural, structural, mechanical, electrical and plumbing systems.

Items evaluated include the following:

- Exterior: Walls, foundations, doors, windows, soffits.
- Interior: Partitions, floors, ceilings, doors, casework.
- Roof: Membrane, drains, downspouts, flashing.
- Structural: Rapid assessment of seismic resistance.
- MEP: HVAC, plumbing fixtures, electrical equipment.

This assessment is the first step in the long-range facility planning process and is a rapid visual assessment of buildings that provides costs and facility condition numbers that can then be carried forward into the master planning phase, used as a baseline with which to evaluate all future planning decisions.

### Demographics

As part of the Long-Range Facilities Planning (LRFP) efforts, the District will develop a 10-year enrollment projection report. In general the area has not seen significant growth in the last 10 years or so, with several key communities economically depressed and experiencing net job losses overall. This information will be used in conjunction with the capacity calculations done as part of this FAR to determine if there needs to be additional classrooms and / or support spaces planned for in the near future.

### **Sources of Funds**

There are currently three readily available sources of funds to upgrade and / or replace of aging school facilities, the primary one being a bond election. Most districts find that maintaining the existing tax rate is much more palatable to the voters than increasing the tax rate and will attempt to 'capture' funds from an expiring bond, if possible.

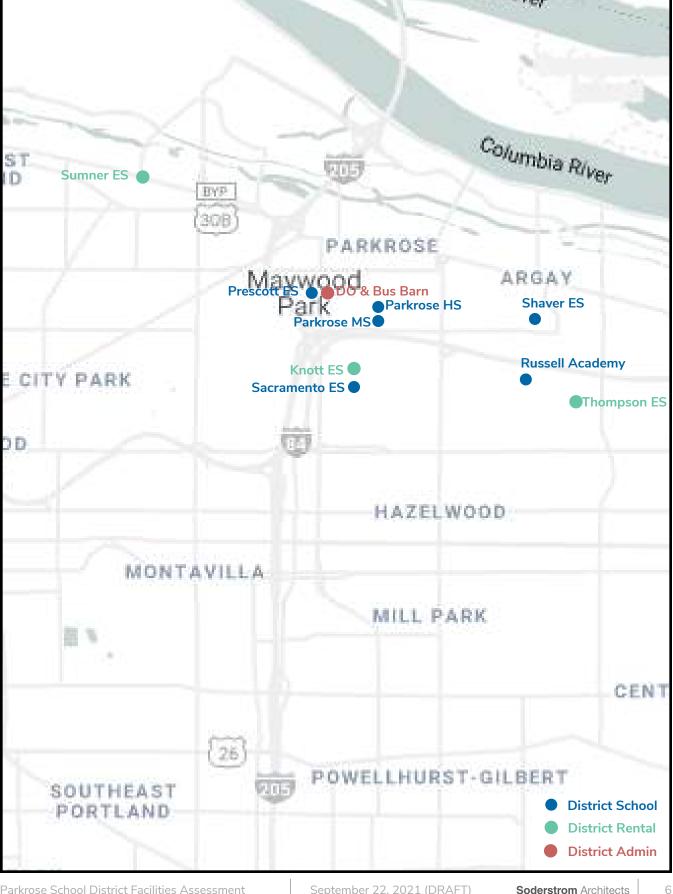
The second income source is through the Oregon School Capital Improvement Matching grant program (OSCIM), which provides up to \$4 million in matching grant funds, and can be used to upgrade, improve, add onto existing buildings, or to build new.

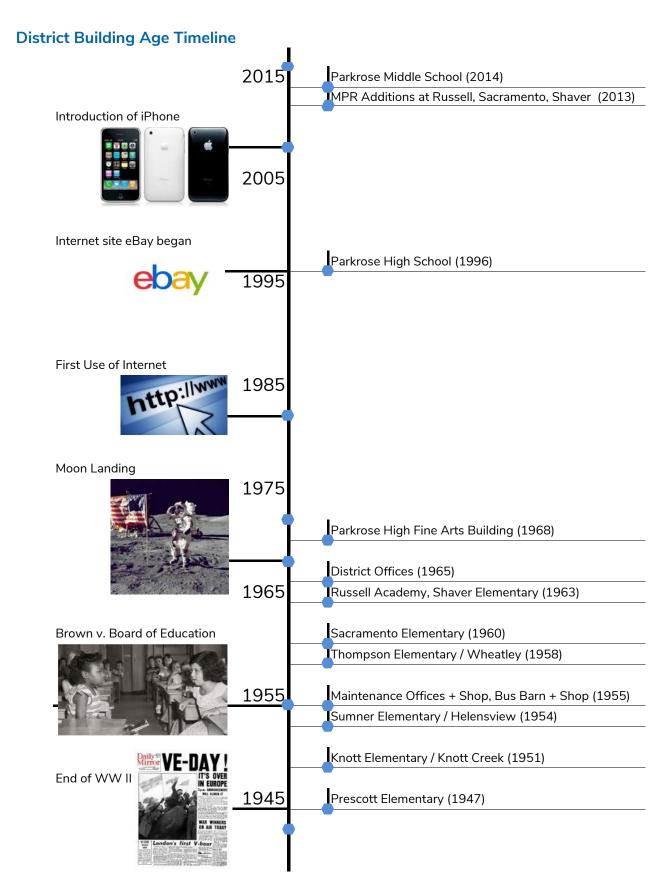
The third option is the Seismic Rehabilitation Grant Program (SRGP), which provides up to \$2.5 million per building to seismically upgrading existing building(s). These funds can't be used for additions or new buildings, but only for making existing unsafe buildings more structurally sound.





# **Parkrose School District**





### Summary - Building Data

This report represents an evaluation of all district buildings, with the goal to identify those at highest need of work overall, creating a detailed list of concerns to be prioritized during the Long-Range Planning process. Some entire buildings are simply very old and beyond their practical lifespan, while some are struggling with accessibility or other more specific concerns. Each school has a complete evaluation further in this report that provides a detailed breakdown of all identified issues and estimated costs for repairs.

#### The District has four (4) elementary schools:

Prescott Elementary School Russell Academy Sacramento Elementary School Shaver Elementary School

#### The District has three (3) former elementary schools rented out to the Multnomah County ESD: Sumner Elementary School (Helensview HS) Thompson Elementary School (Wheatley MS) Knott Elementary School (Knott Creek ES)

The District has one (1) middle school: Parkrose Middle School

**The District has one (1) comprehensive high school:** Parkrose High School **The District has three (3) District Buildings:** Main Administration Office Building Facilities Office and Workshop Building Transportation Maintenance and Storage Building

#	School Name	Building Area	Site Area		Replacement Costs	FCI Index
Elem	entary Schools (K - 5)					
01	Prescott Elementary School	48,544 SF	6 Acres	\$2,422,350	\$24,820,062	9.4%
02	Russell Academy	40,036 SF	10 Acres	\$3,899,749	\$20,470,006	18.3%
03	Sacramento Elementary School	41,107 SF	12 Acres	\$2,135,800	\$21,017,598	9.8%
04	Shaver Elementary School	43,916 SF	9 Acres	\$3,961,863	\$22,453,812	17.0%
Midd	le Schools (6-8)					
05	Parkrose Middle School	155,453 SF	17 Acres	\$777,894	\$83,149,944	0.9%
High	Schools (9-12)					
06A	Parkrose High School	260,497 SF				
06B	Parkrose High School - Fine Arts Building	3,700 SF	41 Acres	\$13,928,573	\$153,680,205	8.7%
06C	Parkrose High School - Stadium	2,500 SF				
Distr	ict Rental / Leased Properties					
07	Sumner Elementary / Helensview School	42,900 SF	9 Acres	\$8,843,719	\$21,934,341	38.8%
08	Thompson Elementary / Wheatley School	50,400 SF	TBD	\$8,133,795	\$25,769,016	30.4%
09	Knott Elementary / Knott Creek School	32,592 SF	5 Acres	\$6,721,749	\$16,663,964	38.8%
Distr	ict Administration and Support					
10A	District Office	4,000 SF				
10B	Maintenance Offices + Shop	4,700 SF	2 Acres	\$1,905,945	\$10,420,877	17.6%
10C	Bus Barn + Shop	12,000 SF				
	Totals:	742,345 SF	110 Acres	\$52,731,438	\$400,379,825	

### **Critical Needs Summary**

#### 00 - District Wide

- Evaluate air conditioning needs at elementary schools (currently only Prescott Annex and a few Admin offices)
- Improved ventilation and air circulation overall.
- Accessibility upgrades to restrooms, access.
- Secure entry and site access, site safety.
- Lighting and controls retrofit and upgrade.
- Upgrade interior finishes and exterior envelope.
- Additional cameras and / or exterior lighting desired.

#### 01 - Prescott Elementary School

- Create accessible main entry, path inside building.
- Create a Nurse / "Sick Room" (none existing).
- Create on-site parking (none currently existing).
- Better site support (trash enclosure and access).
- Significant storage needed (many support programs).
- Replace failing windows that were replaced.
- Repair and / or replace exterior siding.
- Covered play structure (west) too low for ball play.
- Cafeteria undersized and needs expansion.
- Water intrusion at boiler room exterior stair wall.
- Evaluate Annex classroom unit ventilator replacement.
- Add controls to mechanical system and commission.
- Entire building is listed as 'Very High' seismic risk.

#### 02 - Russell Academy

- Replace individual unit ventilators in each classroom.
- Classroom casework does not function as needed.
- Classroom restrooms not accessible typically.
- Remove folding walls between classrooms.
- Front entry needs secure vestibule / controlled access.
- Evaluate existing Kitchen equipment and walk-ins.

- More storage needed (Music Room, etc.).
- Upgrade existing signage for accessibility, consistency.
- Provide additional electrical outlets throughout school.
- Evaluate adding fire sprinklers for added safety.
- Original building is listed as 'Very High' seismic risk.

#### 03 - Sacramento Elementary School

- Evaluate expanding Cafeteria for capacity.
- Review Servery expansion undersized, not accessible.
- Evaluate covered play structures (both) for needs:
   Roof replacement needed for (1)
   Roof repair and coating needed for (1) urgently
- Desire to add a walking track to the site.
- Evaluate repair of rolling site fence / gate.
- Evaluate safety of large, older trees on site.
- Original building is listed as 'Very High' seismic risk.

#### 04 - Shaver Elementary School

- Sewer line elevation issue under parking lot (4" drop).
- Connect buildings with interior hallway.
- Fix water intrusion under covered canopy.
- Additional general building storage requested.
- Deter roof access via trash enclosure canopy.
- Refurbish mechanical units.
- Replace older electrical panels and hot water heater.
- Evaluate adding fire sprinklers for added safety.
- Original building is listed as 'Very High' seismic risk.





## **Critical Needs Summary (cont.)**

#### 05 - Parkrose Middle School

- Elevator access, custodial closet at lower floor desired.
- Replace carpet in high traffic areas (showing wear).
- Add sun control in gym for projection (high windows).
- Repair warped /door frames at Commons CMU wall.
- Repair / replace easily damaged grille covers (custom).
- Mitigate cracking in polished concrete flooring.
- Grounds garage needs improved access.

#### 06 - Parkrose High School

OVERALL:

- Professionally repair and repaint exterior stucco.
- Overall short on classroom space, renovation needed.
- Science Labs too small to be effective.
- Evaluate removal of folding partition walls.
- Evaluate use of courtyard, added CTE building.
- Create direct entry / access to Rossi Field House (gym).
- Renovate Library for better use / function.
- Add more cameras throughout for security.
- Upgrade and improve exterior building lighting.
- Fix security alarm zoning to be more efficient, clear.
- Replace all bleachers inside gym fully.
- Replace locker room lockers (rusted out at base).
- Interior lighting inaccessible, inefficient (replace).
- Replace Auditorium house lights (inaccessible).
- Evaluate flooring replacement at Auditorium.
- Upgrade existing boiler, condensing unit / chiller.
- Replace hot water heaters, fixtures and piping.

#### EXTERIOR / SITE:

- Repair building canopies and columns.
- Fix drainage issues at sloped building corner.
- Evaluate converting to turf football field.
- Stadium / Grandstand needs upgrades.
- Add paving between running track and building.
- Improve track amenities to host meets / events.
- Close off pool covered entry area for safety.
- Clean, repair tennis courts, add spectator support area.
- Exterior light poles sway in wind, replace.
- Provide additional Grounds storage.
- Clean, rebuild and re-stripe track.
- Irrigation system is beyond practical lifespan, leaking.

#### FINE ARTS BUILDING (FAB):

- Improve ventilation throughout.
- Upgrade finishes, windows and casework throughout.
- Improve interior circulation for wayfinding, safety.
- Renovate to improve program inefficiencies.

#### POOL BUILDING:

- Improve ventilation at pool.

#### SEISMIC / STRUCTURAL:

- All but FAB is listed as 'High' seismic risk.



## **Critical Needs Summary (cont.)**

#### 07 - Sumner Elementary School (Helensview)\*

- Fully replace roofing, including gutters, fascia, etc.
- Replace all existing windows.
- Remove extensive glass block windows existing.
- Remove / brace existing brick chimney.
- Replace existing boiler and mechanical units.
- Upgrade mechanical controls to digital, commission.
- Replace old electrical panels.
- Replace hot water heaters, fixtures and piping.
- Evaluate flower beds at entry for security risk.
- Original building is listed as 'Very High' seismic risk.

#### 08 - Thompson Elementary School (Wheatley)\*

- Replace all existing windows.
- Remove extensive glass block windows existing.
- Repair exterior concrete canopy at entry.
- Consider removing textured ceiling finish (ACM).
- Add paved pedestrian access from sidewalk / street.
- Clean, re-point and re-seal brick at enry, planter.
- Repair downspouts at Covered Play Structure (CPS).
- Remove rust, replace roof panels at CPS.
- Replace existing boiler and mechanical units.
- Upgrade mechanical controls to digital, commission.
- Replace old electrical panels.
- Replace hot water heaters, fixtures and piping.
- Recommend additional fire sprinklers be added.
- Original building is listed as 'Very High' seismic risk.

#### 09 - Knott Elementary School (Knott Creek)\*

- Fully replace roofing, including gutters, fascia, etc.
- Upgrade inadequate existing ventilation (tunnels).
- Replace all existing windows.
- Remove extensive glass block windows existing.
- Replace existing boiler and mechanical units.
- Upgrade mechanical controls to digital, commission.
- Replace old electrical panels.
- Replace hot water heaters, fixtures and piping.
- Recommend additional fire sprinklers be added.
- Original building is listed as 'Very High' seismic risk.

\* For Sumner, Thommpson and Knott: As District rental properties, scope of work will be focused on building systems and infrastructure. Any items requiring repair and / or replacement due to use or age otherwise will be the responsibility of the building tenants.





## **Critical Needs Summary (cont.)**

#### 10 - District Office / Maintenance Building

DISTRICT OFFICE:

- Enclose courtyard for better use / functionality.
- Regular exterior painting required for maintenance.
- Renovate Work Room, Student Services.
- Add upgraded, electric monument entry sign.
- Upgrade IT closet / rack to larger space.
- Add cameras at building side.
- Replace perimeter fencing.
- Fix problematic roof drains (waterfalls in heavy rain).
- Minor roofing maintenance recommended.
- Replace individual AC units with central system.
- Replace hot water heaters, fixtures and piping.
- Recommend additional fire sprinklers be added.
- Original building is listed as 'High' seismic risk.

#### MAINTENANCE BUILDING:

- Exterior painting needed (summer 2021 or later).
- Full restore of metal roof needed.
- Relocate Nutrition staff to Warehouse.
- Renovate / clean out Shop area for functionality.
- Remove underground gas tanks and pumps.
- Original building is listed as 'Very High' seismic risk.

#### WAREHOUSE / BUS BARN:

- Exterior alarms needed, to deter activity.
- Additional Grounds storage needed overall.
- Repair overhead doors to be functional (hardware).
- Evaluate 'notch' missing in several (structural).
- Repair ceiling where debris falling down regularly.
- Replace both vehicle lifts (original, not efficient).
- Repair heater (too loud, can't hear when running).
- Provide added power to separate light + computers.
- Replace hot water heater platform.
- Restore metal roofing, replace built-up roofing.
- Original building is listed as 'Very High' seismic risk.



## Facilities Condition Index (FCI)

Within the Facilities Assessment Report (FAR) is the Facilities Condition Index (FCI), calculated from the deficiencies found in each building and the corresponding costs to address them. Specifically, the FCI outcome is the ratio of the estimated cost of renovations compared to complete building replacement, assuming the same square footage and program as the existing. The closer the renovation costs get to the full replacement cost of the building, the higher the FCI percentage.

The FCI is one tool used to determine if it's more costeffective to replace or renovate a building, rather than try to address each individual deficiency. An FCI of 30% or higher indicates that replacement is recommended, since the cost to repair is a significant portion of the entire building's value. The FCI is a benchmark indicator of the building's condition used to compare its relative condition to other similar buildings. This FCI number is only used to measure the relative costs of repair versus replacement, and doesn't take into account the following factors:

- Structural Resiliency
- Suitability to Program
- Accessibility Requirements
- Hazardous Materials Abatement
- Educational Adequacy

As part of this evaluation, we will review all these aspects, as well as the ODE requirements for physical facilities.

The chart below graphically shows the rankings of each District school building relative to the 'tipping point' of the 30% cut-off for replacement. This shows quite clearly that the three rental elementary schools are the highest need buildings, with Russell, Shaver and the District Office the next highest need group of buildings.

30%+ Critical	1						38.8%	30.4%	38.8%	
10% - 30% Poor	9.4%	18.3%	9.8%	17.0%		8.7%				17.6%
5% - 10% Fair					546 	0.770				
0% - 5% Good					0.9%					
FCI INDEX CHART	Prescott Elementary	Russell Academy	Sacramento Elementary	Shaver Elementary	Parkrose Middle School	Parkrose High School	Sumner / Helensview School	Thompson / Wheatley School	Knott / Knott Creek School	District Office / Maintenance

#### **Average Overall Condition**

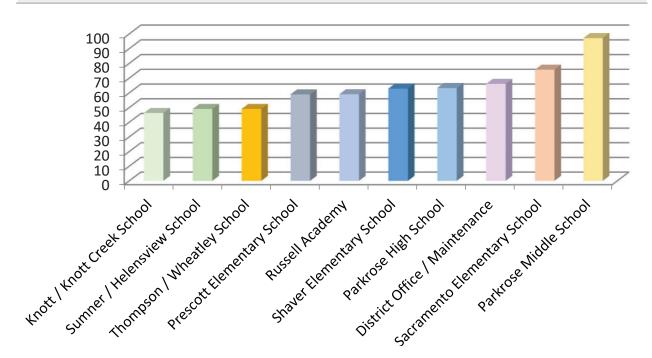
While all of the district's buildings are well-maintained, many have identified a long list of needs, particularly the older buildings and the high school. With an average building age of over 50 years, there are several buildings with their practical lifespan already extended beyond what is practical.

The following pages provide summary analysis on the specific aspects of each building's overall condition. Refer to the school specific pages further in the report for more detailed site-specific information. On the charts below, zero is the lowest performing score, while a score of 100 means the building is performing 'Perfectly', or exactly as needed.

Note: Sumner, Thompson and Knott were not evaluated for educational adequacy or program support, as these are currently rented out and not used directly by Parkrose SD students.

Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30

# Summary - All Buildings: Average



### General Condition + Summary Building Grades by Category

#### **Program Suitability**

The high school likely has the worst performance relative to program, due to both the small, inefficient size of the classrooms and the overall low classroom count.

Russell Academy is another candidate that has classrooms with exterior doors and casework that doesn't function for what a modern classroom requires. All four elementaries lack adequate Cafeteria space and gymnasium spaces. The Multi-Purpose Room (MPR) additions in 2014 at all but Prescott helped mitigate this.

There are other minor issues relative to supervision, adjacency and changes in pedagogy that are impacted.

#### Structural

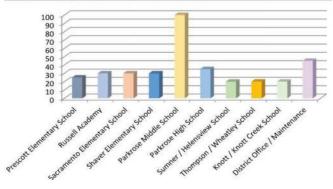
Every campus except the middle and high school has buildings listed as "Very High" risk categories for seismic, while the high school is listed as "High Risk." Only the newly constructed all-new middle school performs well overall.

#### HVAC / Mechanical

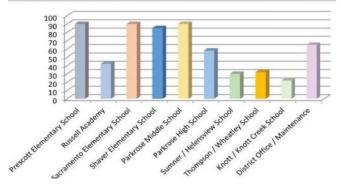
Ameresco performed walkthroughs at each of the District's buildings and their full report is included as an appendix to this document. In general the high school and rental buildings need to have their boilers and piping replaced, along with their control systems and balancing, along with mechanical units replaced or repaired as well. Testing and commissioning was also recommended.

Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30

#### Summary - All Buildings: Structural



#### Summary - All Buildings: HVAC



# Summary - All Buildings: Suitability to Program

### General Condition + Summary Building Grades by Category

#### **Electrical**

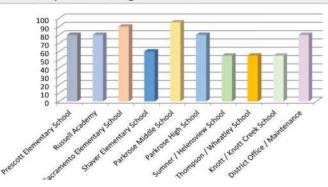
The electrical issues focused on two primary issues, lighting and replacement of older electrical panels. Many of the rental properties had issues with low voltage systems, such as intercoms, bells / clocks and cameras.

#### Plumbing

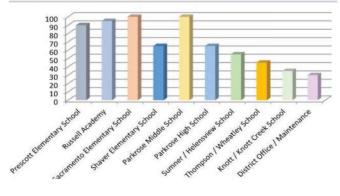
The three rental elementaries all list as a priority full replacement of plumbing fixtures and piping, while a handful of other schools are only 'recommended' for replacement. More than half the schools are recommended to have existing domestic hot water heaters replaced.

Several call for either the extension of or complete installation of fire sprinkler systems as well.

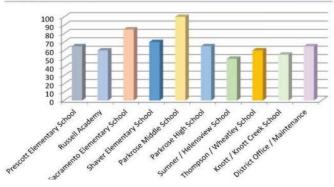
#### Summary - All Buildings: Electrical



#### Summary - All Buildings: Plumbing







#### **Exterior Envelope**

Many of the district properties require roofing maintenance, and additionally the three rentals all require complete window replacement. There are minor issues with brick veneer at a handful of schools, and several painted buildings required maintenance.

The high school needs a complete restoration and cleaning of the stucco system, including repair from woodpecker damage.

Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30

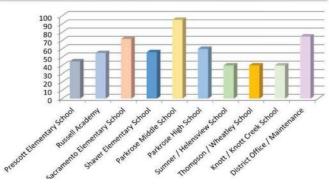
### General Condition + Summary Building Grades by Category

#### **Interior Finishes**

Many schools received finish upgrades with the last bond, but not the rental properties as that would be the responsibility of the tenant. Prescott and Shaver have finishes remaining that are approaching end of life, including flooring and damaged ceiling systems.

Parkrose High also has several interior finish elements that require either maintenance or replacement, as they've reached the end of their practical lifespan.

#### Summary - All Buildings: Interior Finishes

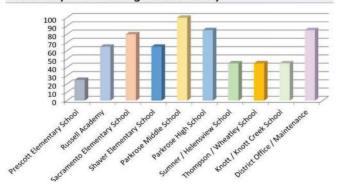


#### Accessibility

Prescott is the highest need school building, as it's lacking an accessible main entry and elevator. Generally speaking otherwise, the school sites are flat and level, allowing for adequate pathways into and circulating through each campus.

The three rental elementary schools have non-accessible restrooms inside the classrooms that need to be upgraded. The playgrounds should be evaluated for universal access as well.

#### Summary - All Buildings: Accessibility

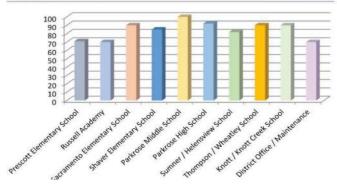


#### Hazardous Materials

Many of the schools have received significant abatement over the years, and all perform generally well. There is very little visible, accessible hazardous materials in each school, with the possible exception of the three rental elementaries. These still have asbestos flooring and 'popcorn' texture ceiling with trace amounts of hazardous materials.

Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30

#### Summary - All Buildings: Hazardous Materials



### Summary - Mechanical / Electrical

The table below is an excerpt from the full structural report, prepared by ZCS, that identifies that there are several buildings at the highest risk of collapse in a seismic event. As you would expect, the older buildings generally score lower, with the exception of the relatively new high school, which is still listed as 'High Risk.' The last bond scope provided seismic upgrades of the elementary schools in use by the District, but not the ones rented / leased out. Refer to the full evaluation, included at the back of this report, for complete details.

<u>Risk</u>	Score	<b>Probability</b>					
LOW	>2.0	Less than 1 in 100 chance of collapse					
MODERATE (MOD)	>1 AND < or = 2.00	Between 1 in 10 & 1 in 100 chance of collapse					
HIGH	>0,0 AND < or =1.0	Between 100% & 1 in 10 chance of collapse					
VERY HIGH	0.0 OR LESS	100% chance of collapse					

In alignment with this ranking system, FEMA, has determined that all buildings with a score 2.0 should be considered to have inadequate performance during a design level seismic event.

Facility Name	Risk
Prescott Elem	entary School
Original Classroom Building	-1.0 – VERY HIGH
1959 Addition (Annex)	-0.4 – VERY HIGH
Russell Eleme	entary School
Original School Building	-1.1 – VERY HIGH
2014 Addition	5.1 – LOW
Sacramento Ele	
Original School Building	-1.8 – VERY HIGH
2014 Additions	5.1 – LOW
Shaver Eleme	entary School
Original School Building	-1.8 – VERY HIGH
2014 Addition	5.1 - LOW
Parkrose Mi	ddle School
Original School Building	3.8 – LOW
Parkrose H	igh School
Classroom Wings	1.0 – HIGH
Student Center/Library	1.0 – HIGH
Auditorium, Gym and Pool	0.7 – HIGH
Band/Music	1.0 – HIGH
Fine Arts Building	1.3 – MODERATE
Sumner Eleme	entary School
Original School Building	-1.8 – VERY HIGH
Thompson Eler	nentary School
Original School Building	-1.8 – VERY HIGH
Knott Elemer	ntary School
Original School Building	-1.8 – VERY HIGH
1965 Addition	0.2 – HIGH
District Office	/Maintenance
District Office Building	0.6 – HIGH
Maintenance Facility	-0.6 – VERY HIGH
Garage and Storage	-1.6 – VERY HIGH

### Summary - Mechanical / Electrical

The table below is an excerpt from the full mechanical, electrical and plumbing report, prepared by Ameresco. This identifies the specific scope items on each campus with the highest needs and anticipated approximate costs to repair or replace items indicated. In general, all sites are recommended for testing and retro commissioning, as well as lighting upgrades.

Many are recommended for complete mechanical unit replacement. In general, the three 'rental' elementary schools show the highest system needs overall, with significant mechanical, electrical and plumbing work indicated at all three sites. The four elementary schools were upgraded in the most recent bond, so they show a lower need based on their age. The middle school is also showing few needs since it was most recently built new.

Refer to the full evaluation, included at the back of this report, for complete details.

			HV	AC			ELECT	RICAL		PLUMBING		
Facilities Summary	Replace existing old boiler system	Replace condensing unit / chiller	Refurbish AHUs	AHU/ HV/ RTU/ UV/ UH/ FF replacement	Test and retro commissioni ng	Control upgrade	Replace old electrical panels	Lighting and lighting control retrofit to LED	Replace water fixtures and water piping for the school	Replace existing old DHW heater	Add fire sprinkler system	Total
Prescott Elementary					\$ 22,000	\$ 75,000		\$ 110,000	\$ 55,000	\$ 60,000		\$ 322,000
Russell Elementary	5 X			\$ 530,000	\$ 18,000			\$ 90,000			\$ 40,000	\$ 678,000
Sacramento Elementary					\$ 21,000			\$ 95,000				\$ 116,000
Shaver Elementary			\$ 80,000		\$ 30,000		\$ 65,000	\$ 100,000		\$ 30,000	\$ 40,000	\$ 345,000
Parkrose Middle School					\$ 64,000			\$ 215,000				\$ 279,000
Parkrose High School	\$ 75,000	\$ 50,000		\$3,200,000	\$ 85,000	\$ 105,000		\$ 500,000	\$ 35,000	\$ 120,000		\$4,170,000
Sumner /Helensview	\$ 800,000			\$ 550,000	\$ 22,000	\$ 300,000	\$ 100,000	\$ 90,000	\$ 240,000	\$ 30,000		\$2,132,000
Thompson / Wheatley	\$ 800,000			\$ 550,000	\$ 22,000	\$ 300,000	\$ 140,000	\$ 90,000	\$ 270,000		\$ 250,000	\$2,422,000
Knott / Knott Creek	\$ 680,000			\$ 450,000	\$ 18,000	\$ 240,000	\$ 110,000	\$ 75,000	\$ 200,000	\$ 30,000	\$ 210,000	\$2,013,000
District Office / Maintenance				\$ 55,000	\$ 12,000	\$ 115,000		\$ 43,000	\$ 135,000	\$ 17,000	\$ 130,000	\$ 507,000

Recommended

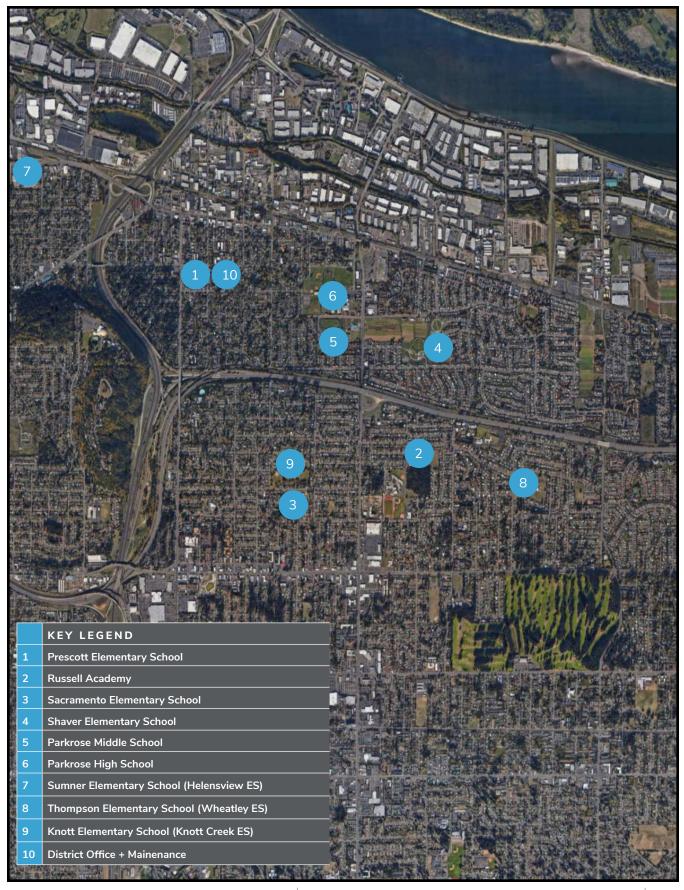
AHU Air Handling Unit HV Heating Ventilating Unit RTU Rooftop Unit UV Unit Ventilator DHW Unit Heater FF Forced Air Furnace Domestic Hot Water

# FACILITY ASSESSMENTS BY BUILDING

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# 00 - PARKROSE SCHOOL DISTRICT

### **SITE PLAN**



**SITE PLAN** 



Parkrose School District Facilities Assessment

September 22, 2021 (DRAFT)

## **FLOOR PLAN**





### **Facility Summary**

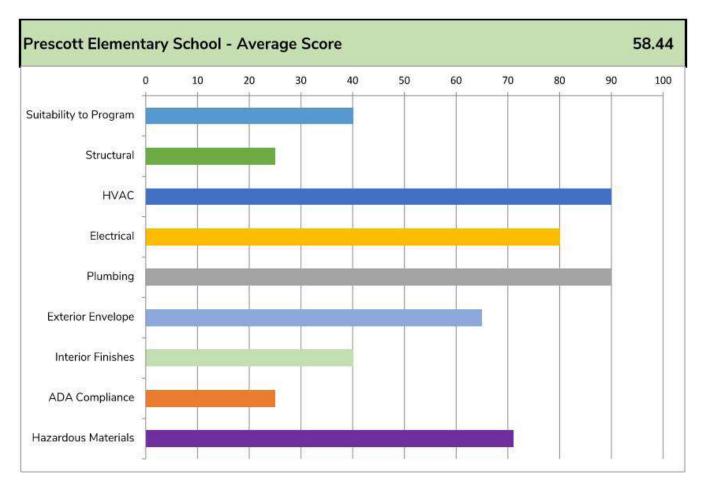
Prescott Elementary is one of the highest needs schools in the District, due to it's age, it's tight sight that doesn't easily provide for parking and it's two-story configuration that creates accessibility challenges.

Starting at the building entry, there is no accessible path from the sidewalk to the main office, with the side curving ramp very narrow and steep and the lower ramp into the Cafeteria not appropriate to leave open for security. Prescott's lack of parking onsite is an issue for both parents and staff, as well as neighbors who deal with significant site circulation issues twice daily.

Prescott was the only elementary in the District that didn't receive a 'Multi-Purpose Room' (MPR) addition in the previous bond, since it did have a separate gymnasium and cafeteria, unlike the other schools.

In addition to overall system issues with mechanical, electrical and plumbing, there is a very high seismic risk, increased by the fact that the cafeteria is underneath the gymnasium. Further evaluation is recommended.

Site Name:	Prescott Elementary
Building Name:	Main Building + Annex
ODE Building ID:	21810100
Building Type:	Elementary School
Students:	331
Building Address:	10410 NE Prescott St, Portland, OR 97220
County:	Multnomah
Gross Square Footage:	48,544
Site Acreage:	5.75
Year Built:	1947
Additions/Renovations:	1959, 1996, 2014
Number of Floors:	Two (2)
Primary Structure:	Wood Framing
Roof Type:	Built-Up (SBS), Membrane
Replacement Budget:	\$24,820,062



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



### Architectural

- Cafeteria is undersized for current capacity.
- Previous window replacement resulted in nonfunctioning units that now require replacement.
- Window coverings require replacement.
- Repair / replace damaged and failing siding, both vinyl and cememtitious.
- Minor kitchen equipment upgrades needed.
- Repair leak at exterior brick wall near building boiler room corner.
- Upgrade / replace interior finishes, including flooring, ceilings and door hardware.
- Built-in cabinets and moveable furniture require repair and replacement.
- Dedicated Health / Sick Room needed at Main Office.
- Additional storage needed due to multiple community and District groups' use of the building.
- Covered Play canopy at West side of site is too low for ball play, consider revising play equipment to more age-appropriate configuration.

### Site Safety and Security Analysis

- Main Entry doesn't have good line-of-site to people entering.
- Secure vestibule strongly recommended to be added.
- Repair site asphalt paving where cracked, uneven.
- Students travel from main building to Annex, which requires exterior doors to remain unlocked and creates a security risk.
- Multiple, smaller windows in Annex requires lengthy time to shut blinds in a lockdown situation, creating higher risk to staff.

### Accessibility

- Add elevator and / or repair lift at stairs.
- Upgrade restroom washbasins that aren't accessible, provide required clearance.
- Steep site creates challenges accessing playground, Annex building for some.
- Evaluate need for power-operated door openers at key locations.

### Hazardous Materials and Indoor Air Quality

- There is some surface-applied ceiling and wall tiles that may have asbestos-containing mastic / glue.
- Most flooring has been replaced throughout and asbestos-containing material was abated at that time.
- Due to the age of the building, it is assumed there would be lead paint encapsulated below newer paint.
- Radon mitigation was completed prior to / near Summer 2021. Re-testing is planned for Fall 2021.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



### **Building Systems**

#### Fire Protection:

• The entire building and Annex have a fire sprinkler system currently installed that is routinely tested and inspected.

#### Plumbing:

- Replace plumbing fixtures and supply piping to the building.
- Replacement of existing domestic hot water heaters is recommended, due to age, capacity and overall condition.

#### Mechanical:

- Main Office does not currently have air conditioning, evaluate adding.
- Repair Kitchen mechanical piping that has been chronically freezing up and condensing.
- Evaluate adding digital controls for remote monitoring and access of mechanical system.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.
- Provide full mechanical controls upgrade.

#### Electrical:

- The school's main distribution panel was replaced in 1987 and appears to be performing adequately for current needs.
- Most building subpanels were replaced in 2013 and appear to have adequate capacity overall.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• The existing fire alarm system appears to be functioning adequately and work is not recommended at this time.

#### **Communication and Security:**

- There is an older PA (Public Address) system for operational communications.
- There seems to be no functional two-way intercom system in the school, or between the schol and Annex building.
- Wireless internet appears to be adequate throughout the school.

Refer to full report from Ameresco for more detail.

#### Structural

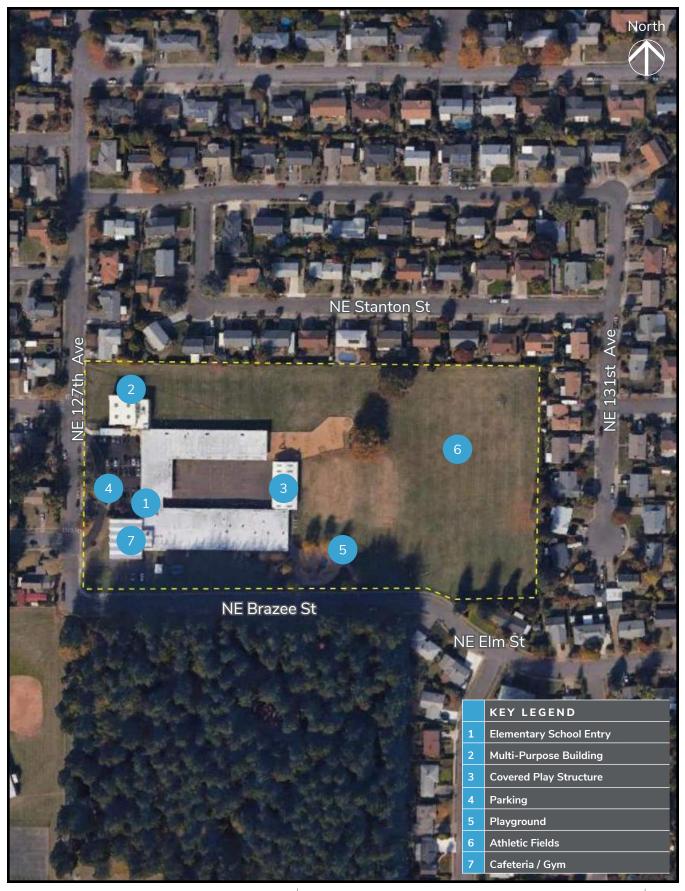
- The original classroom building is rated as a 'Very High' seismic risk.
- The Annex addition is also considered to be a 'Very High' seismic risk, although not quite as high as the original building.

Refer to full report from ZCS Engineering and Architecture for more detail.





### SITE PLAN



# **FLOOR PLAN**





#### **Facility Summary**

Russell Academy's physical configuration, with exterior classroom entries, creates significant security risks that should be considered. The front office is across the corridor from the entry doors, creating a significant security risk, which could be mitigated by adding a vestibule.

This building in particular has significant mechanical issues, as each classroom has an independent unit ventilator that is beyond it's practical lifespan and requires replacement. In addition to this, there is inadequate electrical outlets throughout the school.

The classrooms themselves have antiquated, outdated casework and folding walls that aren't well utilized in modern teaching environments. The restrooms inside these classrooms are very small and not accessible to differently-abled students.

There are several smaller issues with the building, including inconsistent signage, inadequate storage, and upgraded kitchen equipment.

Site Name:	Russell Academy
Building Name:	Russell Main
ODE Building ID:	21810200
Building Type:	Elementary School
Students:	371
Building Address:	2700 NE 127th Ave., Portland, OR 97230
County:	Multnomah
Gross Square Footage:	40,036
Site Acreage:	9.83
Year Built:	1963
Additions/Renovations:	1996, 2013
Number of Floors:	One (1)
Primary Structure:	Wood Framing
Roof Type:	Built-Up (SBS)
Replacement Budget:	\$20,470,006



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



### Architectural

- Classrooms have outdated, antiquated casework and folding walls that should be considered for replacement.
- The gate access from the parking lot is problematic and should be replaced.
- The Kitchen is outdated, with some original equipment, including the walk-in freezer and cooler, still in use. We recommend an allowance to upgrade this equipment.
- Hallway flooring is very difficult to get clean and recommended for replacement, unless it can be stripped and re-finished effectively.
- Additional storage is requested, particulalry for the Music Room.
- Signage building-wide is inconsistent, illegible and should be replaced with a consistent version.
- Re-roof of small area recommended within next 5-7 years.

### Site Safety and Security Analysis

- Main entry doesn't connect directly to the Main Office, limiting ability to screen and control visitor access.
- Secure vestibule should be added to assist in controlling access and screening visitors.
- Exterior classroom door entries a significant security risk, consider options to enclose.
- Additional cameras have been requested, both interior and exterior.
- Additional exterior lighting has been requested by the building users, as the existing is minimal.

### Accessibility

- The restrooms within the classrooms are very small and don't meet guidelines for accessibility. These are recommended for reconfiguration to accommodate differently-abled students.
- Evaluate need for power-operated door openers at key locations.
- Provide accessible route to stage area.

### Hazardous Materials and Indoor Air Quality

• Radon mitigation was completed prior to / near Summer 2021. Re-testing is planned for Fall 2021.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



### **Building Systems**

#### Fire Protection:

- While not required, it is recommended to extend the existing fire sprinkler system, which is minimal.
- The new Multi-Purpose Room (MPR) does not have a fire sprinkler system installed.

#### Plumbing:

• No issues identified.

#### Mechanical:

- Replace the existing independent unit ventilators in each classroom that are well beyond their practical lifespan.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.

#### Electrical:

- The majority of the school's main distribution panel was replaced in 2013 and appears to be performing adequately for current needs.
- Most building subpanels were replaced in either 1996 or 2013 and appear to have adequate capacity overall.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• The existing fire alarm system, while not required, could increase safety by upgrading the existing system to add visual strobes and to modernize the current system.

#### **Communication and Security:**

- There is an older PA (Public Address) system for operational communications.
- Wireless internet appears to be adequate throughout the school.

Refer to full report from Ameresco for more detail.

### Structural

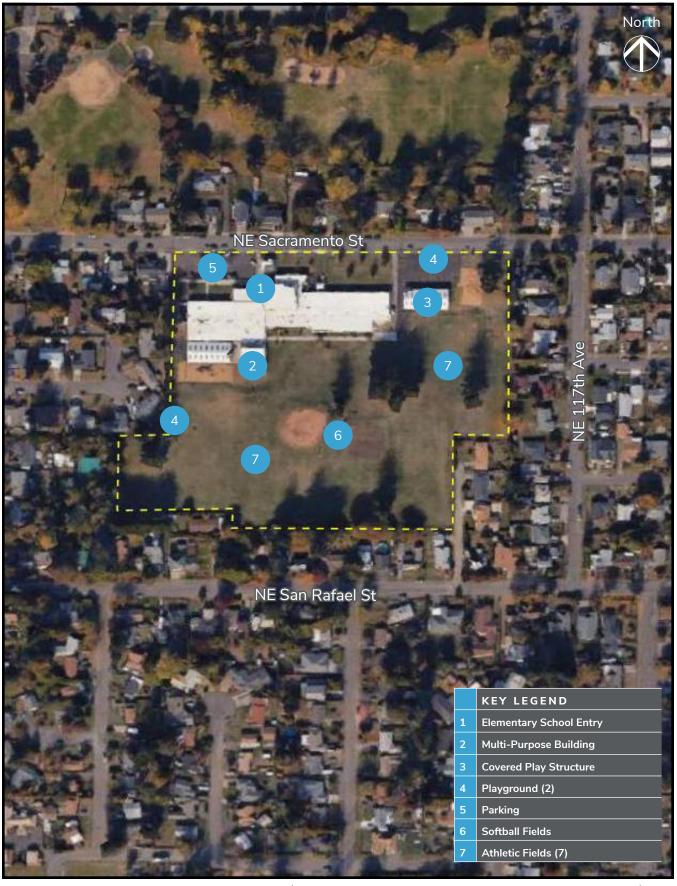
- The original classroom building is rated as a 'Very High' seismic risk.
- The most recent 2014 addition is considered to be a 'Low' seismic risk and should meet or nearly meet current structural code guidelines.

Refer to full report from ZCS Engineering and Architecture for more detail.



# 03 - SACRAMENTO ELEMENTARY SCHOOL

**SITE PLAN** 



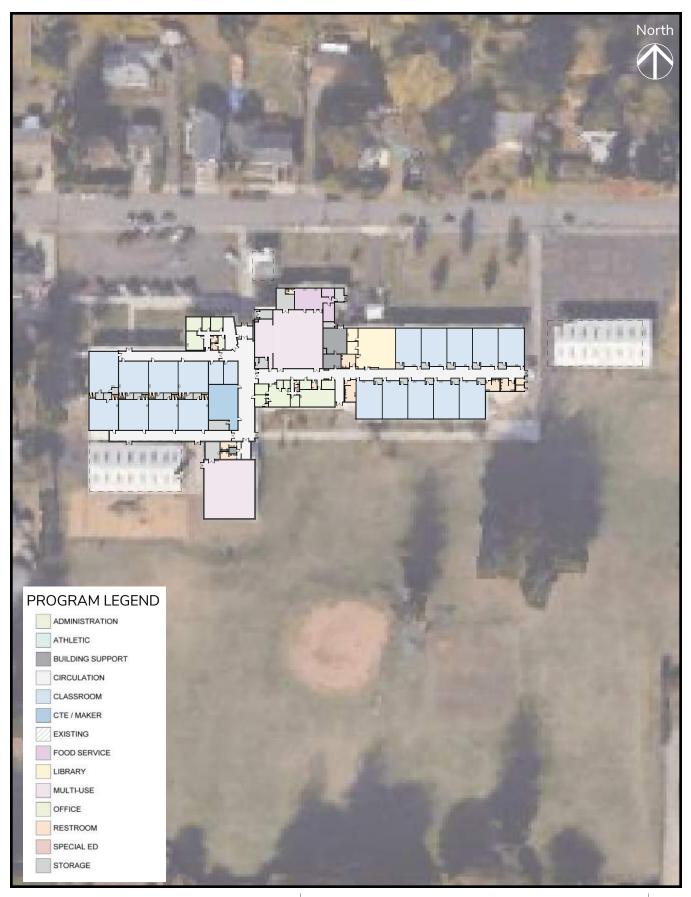
Parkrose School District Facilities Assessment

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Soderstrom Architects 34

# 03 - SACRAMENTO ELEMENTARY SCHOOL

### **FLOOR PLAN**



Parkrose School District Facilities Assessment

# 03 - SACRAMENTO ELEMENTARY SCHOOL



#### **Facility Summary**

Sacramento Elementary is one of the best elementary schools in the District relative to it's overall physical condition. The last bond provided significant mechanical, electrical and plumbing upgrades, and it also received a Multi-Purpose Room (MPR) addition.

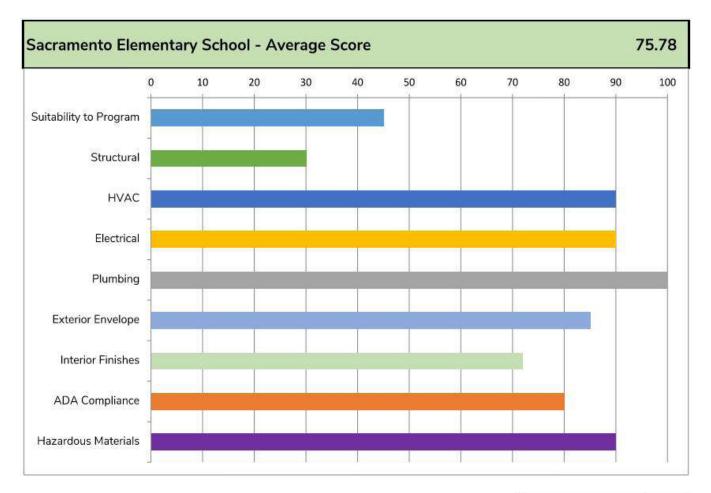
The largest current need is around the Cafeteria and Servery, which are both under capacity. In addition, the Servery does not provide accessible clearance for access.

Both Covered Play Structures show signs of wear and it's recommended to repaint the main structural frame and replace the roofing panels. The basketball hoops are beyond their practical lifespan and mounting heights are not ideal for elementary students. Interest has been expressed in developing a walking track on the site.

Seismically, similar to all other elementary schools, the original building is listed as a 'Very High' seismic risk. The new MPR addition is very safe and built to current

Site Name:	Sacramento Elementary
Building Name:	Main School
ODE Building ID:	21810300
Building Type:	Elementary School
Students:	305
Building Address:	11400 NE Sacramento St., Portland, OR 97220
County:	Multnomah
Gross Square Footage:	41,107
Site Acreage:	11.59
Year Built:	1960
Additions/Renovations:	1960, 1980, 1996, 2013
Number of Floors:	One (1)
Primary Structure:	Wood Framing
Roof Type:	Single-Ply Membrane (PVC)
Replacement Budget:	\$21,017,598

# 03 - SACRAMENTO ELEMENTARY SCHOOL



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30





# 03 - SACRAMENTO ELEMENTARY SCHOOL

# Architectural

- Evaluate Cafeteria / Commons capacity.
- Evaluate Servery configuration and clearances to confirm adequacy.
- Evaluate Covered Play Structures for overall safety and longevity of performance, including basketball goals.
- Consider adding a walking track to the site.

## Site Safety and Security Analysis

• Replace broken rolling gate at West end of site (chronic issues).

### Accessibility

- Evaluate original restrooms in corridor for accessiblity.
- Consider renovation of restrooms inside classrooms to make them fully accessible.
- Provide accessible route to stage area.

### Hazardous Materials and Indoor Air Quality

- The most recent bond scope abated most visible hazardous materials in the building.
- The hazardous materials remaining are typically concealed behing wall finishes.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



# 03 - SACRAMENTO ELEMENTARY SCHOOL

### **Building Systems**

#### Fire Protection:

• No issues identified.

#### Plumbing:

• No issues identified.

#### Mechanical:

• Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.

#### Electrical:

• No issues identified.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No issues identified.

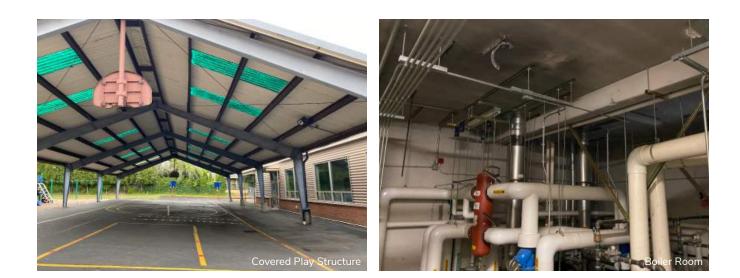
#### Communication and Security:

• No issues identified.

#### Structural

- The original classroom building is rated as a 'Very High' seismic risk.
- The most recent 2014 additions are considered to be a 'Low' seismic risk and should meet or nearly meet current structural code guidelines.

Refer to full report from ZCS Engineering and Architecture for more detail.

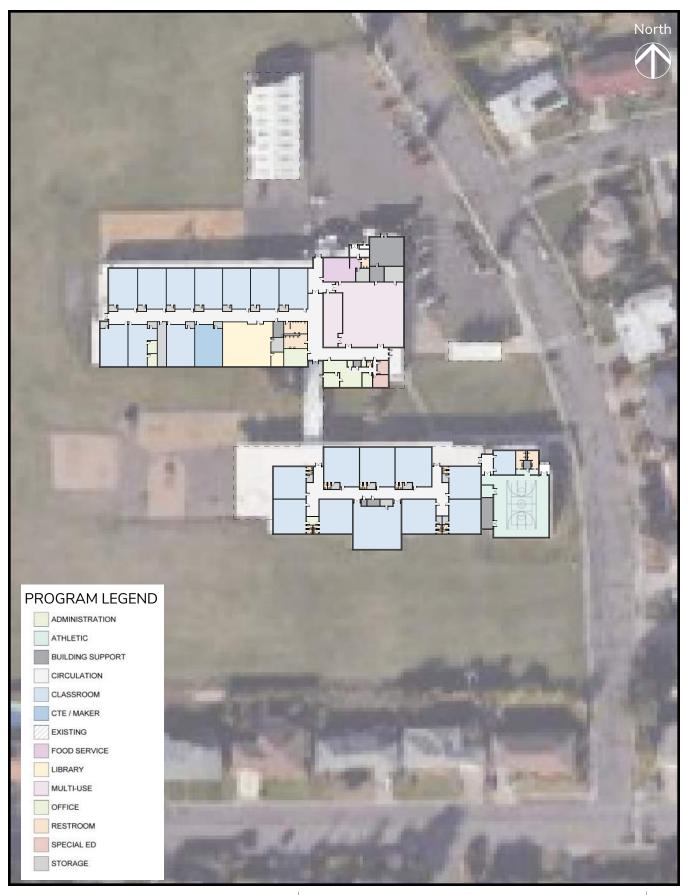


**SITE PLAN** 



September 22, 2021 (DRAFT)

# **FLOOR PLAN**



Parkrose School District Facilities Assessment



### **Facility Summary**

Shaver Elementary is a very old but well-maintained school building that has seen several significant upgrades over the years. There are still needs identified but overall the building has solid value and can serve the District well for many years to come.

The largest issue this school is dealing with is connection and internal circulation of their students between the three building areas on the site, with the original building, the 1996 addition and the newest Multi-Purpose Room (MPR) building all having exterior entry doors and paths.

There are infrastructure needs identified, including replacement of mechanical units, electrical panels and hot water heaters. Overall building storage is also needed.

Seismically, similar to many other elementary schools, the original building is listed as a 'Very High' seismic risk. The new MPR addition is very safe and built to current code requirements.

Site Name:	Shaver Elementary School
Building Name:	Main Building
ODE Building ID:	21810400
Building Type:	Elementary School
Students:	275
Building Address:	3701 NE 131st Pl., Portland, OR 97230
County:	Multnomah
Gross Square Footage:	43,916
Site Acreage:	8.73
Year Built:	1963
Additions/Renovations:	1996, 2013
Number of Floors:	One (1)
Primary Structure:	Wood Framing
Roof Type:	Single-Ply Membrane
Replacement Budget:	\$22,453,812



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



# Architectural

- Consider strategies to enclose corridor connection between original classroom building and older addition.
- Evaluate Cafeteria / Commons capacity.
- Evaluate Covered Play Structures for overall safety and longevity of performance, including basketball goals.
- Review exterior envelope for water intrusion issues, particularly at South elevation of older building addition, below windows.
- Provide solution for water intrusion at south covered canopy at older classroom addition.
- Look to determine how storage could be added.
- Trash enclosure roof access needs to be deterred.

### Site Safety and Security Analysis

• No issues identified.

### Accessibility

- Upgrades to older restrooms should be considred, although many upgrades have occurred already.
- Provide accessible route to stage area.

### Hazardous Materials and Indoor Air Quality

- The most recent bond scope abated most visible hazardous materials in the building.
- The hazardous materials remaining are typically concealed behing wall finishes.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



### **Building Systems**

#### Fire Protection:

• While not required by code, it is recommended to add fire sprinklers to the MPR, in order to increase the overall safety of the building.

#### Plumbing:

• Replacement of existing domestic hot water heaters is recommended, due to age, capacity and overall condition.

#### Mechanical:

- Refurbish old air handling units (AHUs) that are close to their natural lifespan.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.

#### Electrical:

• This building requires replacement of the existing electrical panels and upgrades / replacement of the older light fixtures, with new controls.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No scope identified.

#### **Communication and Security:**

- There is an older PA (Public Address) system for operational communications.
- There seems to be no functional two-way intercom system in the school, or between the schol and Annex building.
- Wireless internet appears to be adequate throughout the school.

### Structural

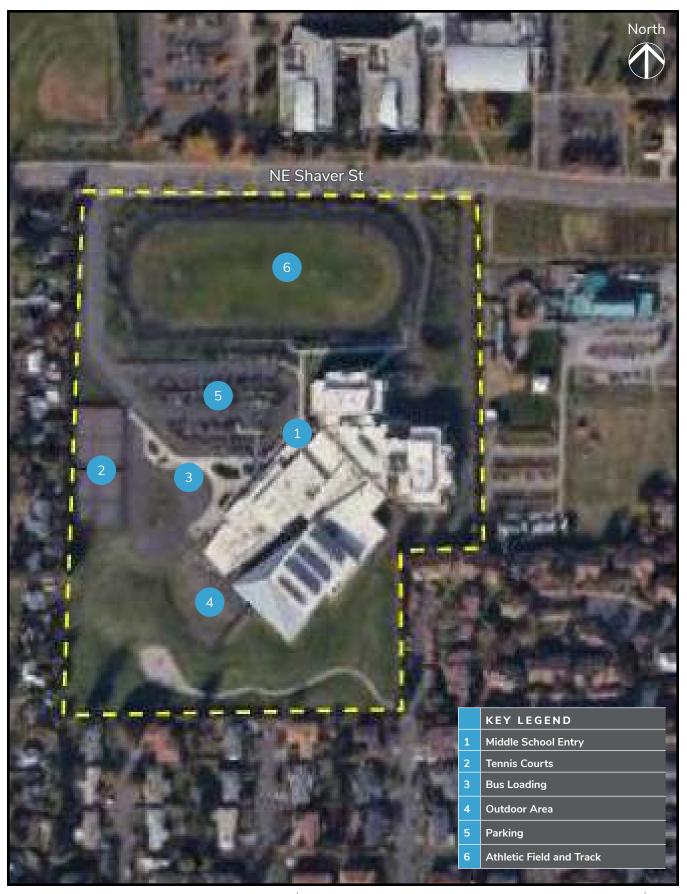
- The original classroom building is rated as a 'Very High' seismic risk.
- The most recent 2014 additions are considered to be a 'Low' seismic risk and should meet or nearly meet current structural code guidelines.

Refer to full report from ZCS Engineering and Architecture for more detail.





### **SITE PLAN**

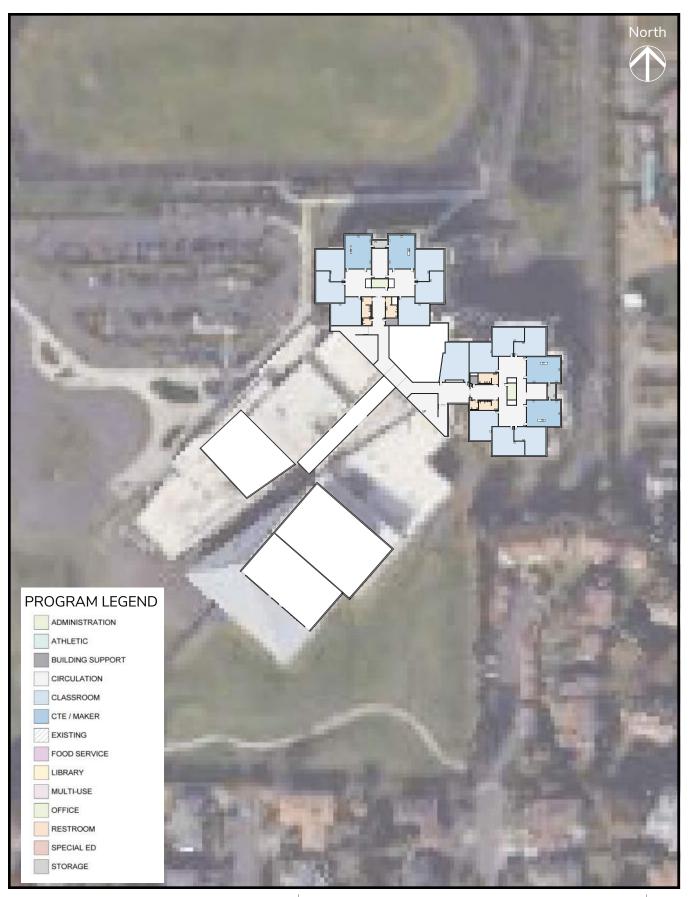


Parkrose School District Facilities Assessment

# **FLOOR PLAN**



# **FLOOR PLAN**





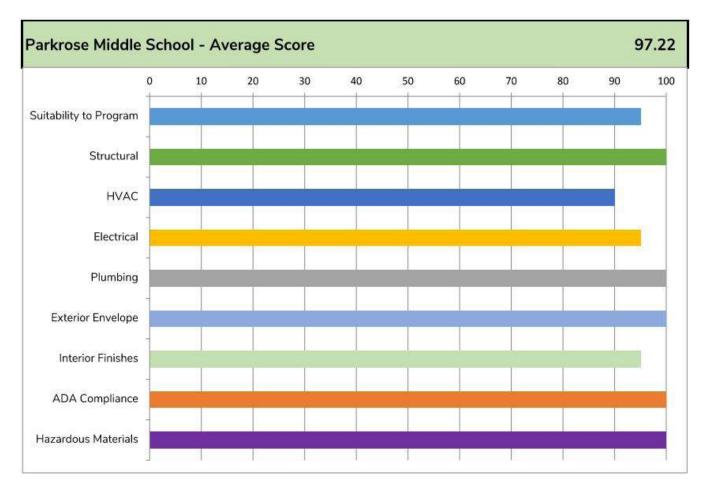
### **Facility Summary**

The newest building in the school, Parkrose Middle School was completely replaced in the last bond, and as expected it has the shortest list of needs due to it's age.

There is a strong desire expressed to provide elevator access to the lower level of the building, where the District IT space is located along with much of the custodial and facilities support and storage areas are. The Grounds Garage has a problematic path in and out of the garage itself that makes it very difficult to maneuver.

There are some minor finish replacment needs, including carpet in high-traffic areas. The polished concrete shows a lot of cracking that should be attempted to be mitigated.

Site Name:	Parkrose Middle School
Building Name:	Main Building
ODE Building ID:	21810500
Building Type:	Middle School
Students:	778
Building Address:	11800 NE Shaver St., Portland, OR 97220
County:	Multnomah
Gross Square Footage:	155,453
Site Acreage:	16.65
Year Built:	2013
Additions/Renovations:	N/A
Number of Floors:	Two (2)
Primary Structure:	CMU bearing
Roof Type:	Single-Ply Membrane, Metal
Replacement Budget:	\$83,149,944



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30





# Architectural

- Replace carpet in high-traffic areas.
- Come up with better solution for mechanical wall grilles that are easily damaged and a custom product that is very expensive to replace.
- Provide sun control at Gym high exterior windows (powered blinds or similar, as done for the Commons).
- Repair damaged door frames at Commons in CMU wall that are warped.
- Evaluate polished concrete flooring to mitigate cracking that is currently visible.
- Revise cracks in corridor wall that travels upward along upper window at two story area.
- Renovate Media Center patio for better utilization.
- Running track will be due for cleaning and re-striping.
- Evaluate adding irrigation controls for remote access and higher efficiency.

## Site Safety and Security Analysis

- Evaluate adding exterior lighting at track for increased safety, extension of hours of use.
- A request has been made to enclose the upper playground area, to provide additional recess options for the students. This would remove community access during school hours, which requires evaluation by the District.

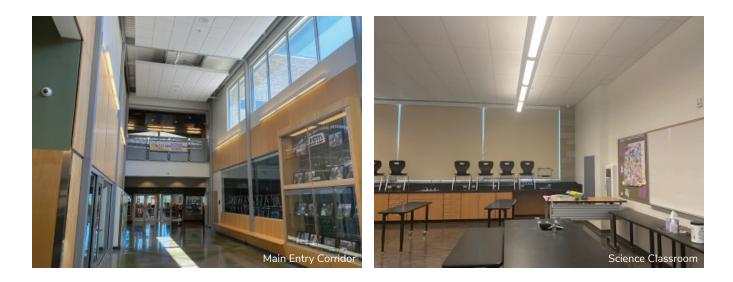
### Accessibility

• Provide elevator access to the lower level of the building that houses the District Information Technology (IT) workshop and office spaces, as well as District meeting rooms.

### Hazardous Materials and Indoor Air Quality

• Due to the building age, there is no evidence or hazardous materials present anywhere in the building.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



### **Building Systems**

#### Fire Protection:

• No issues identified.

#### Plumbing:

• No issues identified.

#### Mechanical:

• Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.

#### Electrical:

• No issues identified.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No issues identified.

#### Communication and Security:

• No issues identified.

Refer to full report from Ameresco for more detail.

### **Structural**

• As a completely new building less than 10 years old, it's assumed to meet all current structural code requirements.

Refer to full report from ZCS Engineering and Architecture for more detail.

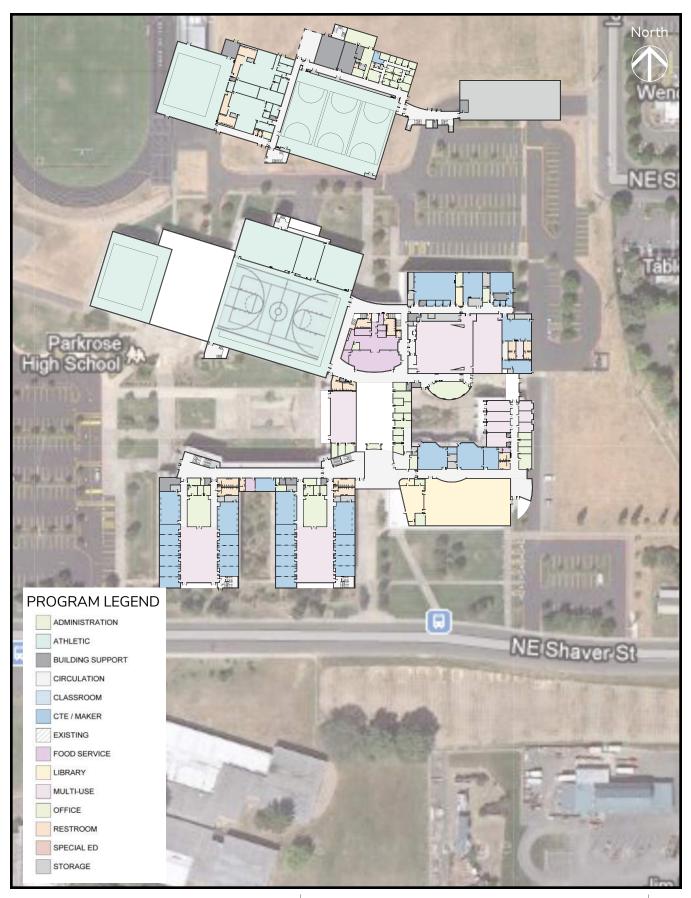




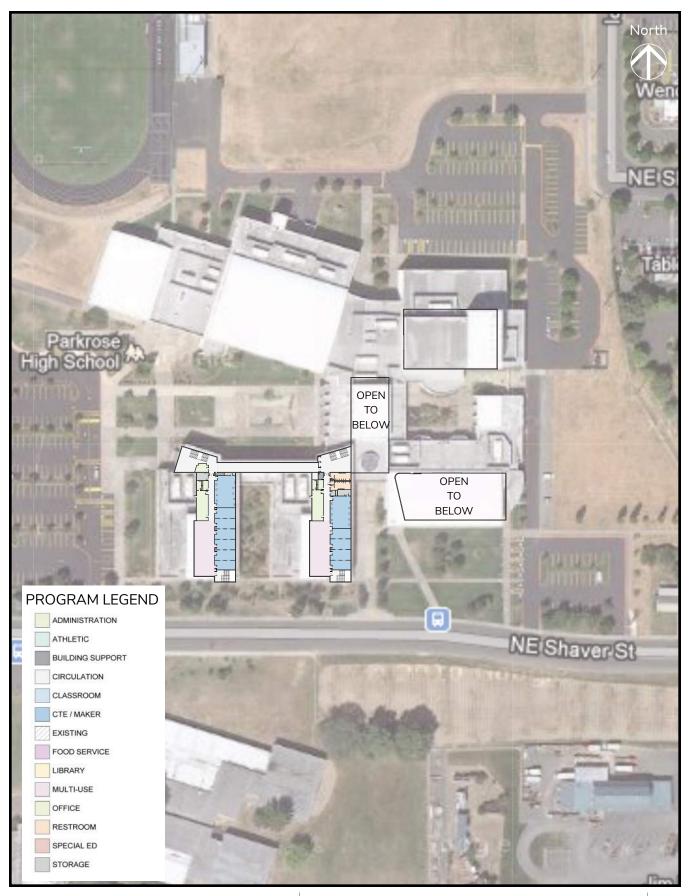
**SITE PLAN** 



# MAIN LEVEL FLOOR PLAN



# UPPER LEVEL FLOOR PLAN





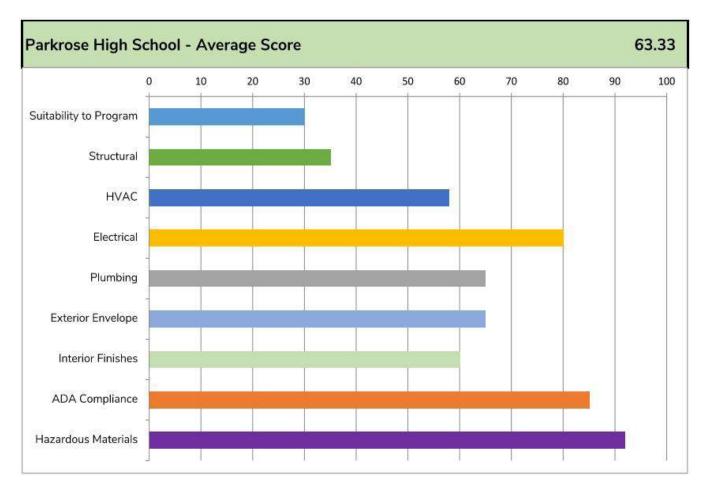
### **Facility Summary**

Parkrose High School is a relatively newer building that is in overall good condition for it's age, but has some fundamental misalignments with the original design and how the District wants to use the building today and into the future. Fundamentally, there are too few classrooms, the classrooms are too small, and there is too much unused circulation space. The Media Center is oversized and underutilized, and the exterior courtyard and main student entry are areas that should be studied for better utilization.

As a comprehensive high school, the site has significant needs relative to athletic fields, utilities and support. The Stadium / Grandstand has not seen upgrades in many years, other than the press box, which was recently upgraded. The track facilities need significant upgrades to be able to host meets.

The only building remaining from the previous high school, the Fine Arts Building (FAB) has significant needs, both in the physical condition and educational adequacy.

Site Name:	Parkrose High School
Building Name:	Main Building
ODE Building ID:	21810600
Building Type:	High School
Students:	976
Building Address:	12003 NE Shaver St., Portland, OR 97220
County:	Multnomah
Gross Square Footage:	260,497
Site Acreage:	40.82
Year Built:	1996
Additions/Renovations:	N/A
Number of Floors:	Two (2)
Primary Structure:	Steel Frame
Roof Type:	Built-Up (SBS)
Replacement Budget:	\$153,680,205



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30





## Architectural

- Exterior stucco needs professional cleaning and complete repaint.
- Lack of classrooms overall and other classrooms undersized, folding walls under utilized.
- Science Labs outdated and too small to be truly effective.
- Library is oversized and larger than needed for use.
- Opportunities for future development include a Vocational / CTE (Career Technical Education) building, on SE corner of site, at Shaver.
- Evaluate better utilization / development of student entry and theater courtyard, including direct gym entry from exterior entry courtyard.
- Roof actively leaking in some areas and should be evaluated.
- Irrigation requires evaluation and repair.
- Revise alarm zones at Pool area for better clarity, particularly after hours, consider adding key pads.
- Site has drainage issues, especially at back of site by gym, where slope meets the building edge.
- Building canopies and columns require repair peeling, failing in several areas.
- Lockers inside locker room has rusted out bases that need repair / replacement.
- The Pool building ventilation is inadequate and could be improved.
- Interior lighting is problematic, numerous inaccessible recessed fluorescent lights that frequently fail.
- Reroofing recommended for approximately half of the building, restoration recommended for other half.

#### FINE ARTS BUILDING (FAB)

- Poor ventilation overall, antiquated systems throughout.
- Restrooms require accessibility upgrade due to age.
- Entire building requires finishes repair and / or replacement.
- Windows are original aluminum, recommend replacement.

#### ATHLETICS AND FIELDS

- There is a strong desire to convert football field from grass to turf.
- Older softball field has outdated equipment, drainage issues at the concrete paving.
- Stadium has not had significant upgrade for many years, except recent Press Box rebuild.
- Stadium lighting requires upgrade overall.
- Consider developing opposite slope from Stadium for visitor area.
- Tennis courts are cracked, don't have a spectator area or support that is accessible. Goal is to support meets.
- Track perimeter fence is not tall enough to control site traffic.
- Paving needed between end of track and building, where it's currently gravel / unpaved.
- Adequate tracksupport missing for events such as javelin, discus, shot put, hammer throw, etc. Goal is to be able to host meets.
- Track is recommended for resurfacing and restriping.
- Gym bleachers are recommended for complete replacement.
- Replace galvanized irrigation piping (40+ years old), add controls for remote access and higher efficiency.





### Site Safety and Security Analysis

- Exterior building lighting requires upgrade, as its mounted too low to be effective. Convert to LED.
- Main building entry doesn't have direct access to secure vestibule. Evaluate adding.

### Accessibility

• Stadium restrooms are not accessible and require significant upgrade.

### Hazardous Materials and Indoor Air Quality

- The main building is new enough that no hazardous materials are expected.
- The Fine ARts Building (FAB) is original to the campus and built at a time when hazardous materials are likely present, including asbestos, lead paint and possibly radon.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



### **Building Systems**

#### Fire Protection:

• Other than the FAB, the entire building has a fully functional fire sprinkler system.

#### Plumbing:

- Replace plumbing fixtures and supply piping to the building.
- Replacement of existing domestic hot water heaters is recommended, due to age, capacity and overall condition.

#### Mechanical:

- Replace existing boiler system that is beyond it's natural lifespan.
- Replace condensing unit / chiller.
- Replace the mechanical units that are well beyond their practical lifespan.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.
- Provide full mechanical controls upgrade.

#### Electrical:

• No scope identified.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No scope identified.

#### **Communication and Security:**

• No scope identified.

Refer to full report from Ameresco for more detail.

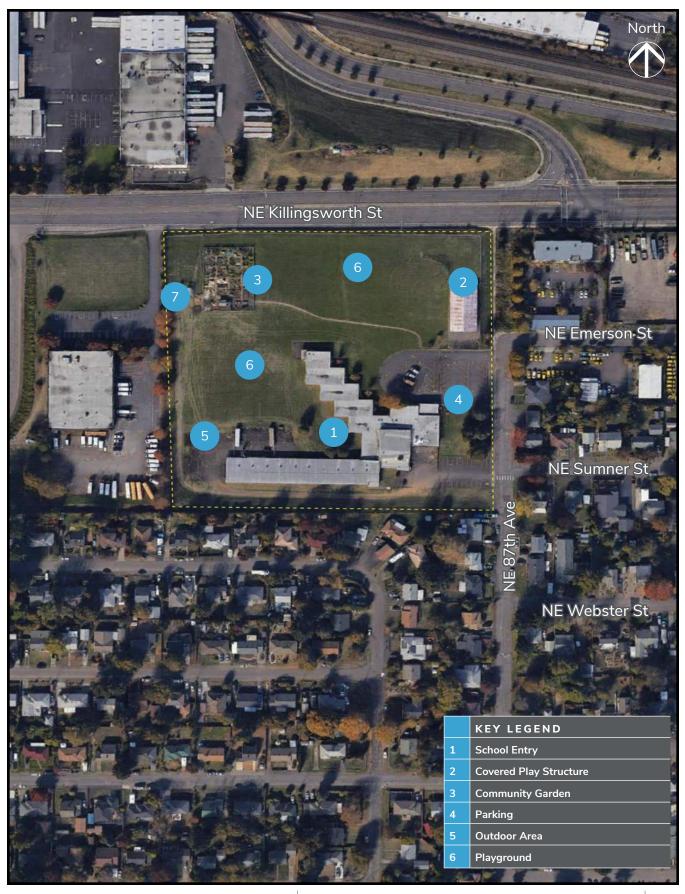
### Structural

- All but the Fine Arts Building is rated as 'High' seismic risk, but has undergone a recent seismic retrofit that will have it brought it up to current code.
- The FAB is listed as 'Moderate' risk seismically.

Refer to full report from ZCS Engineering and Architecture for more detail.



### **SITE PLAN**

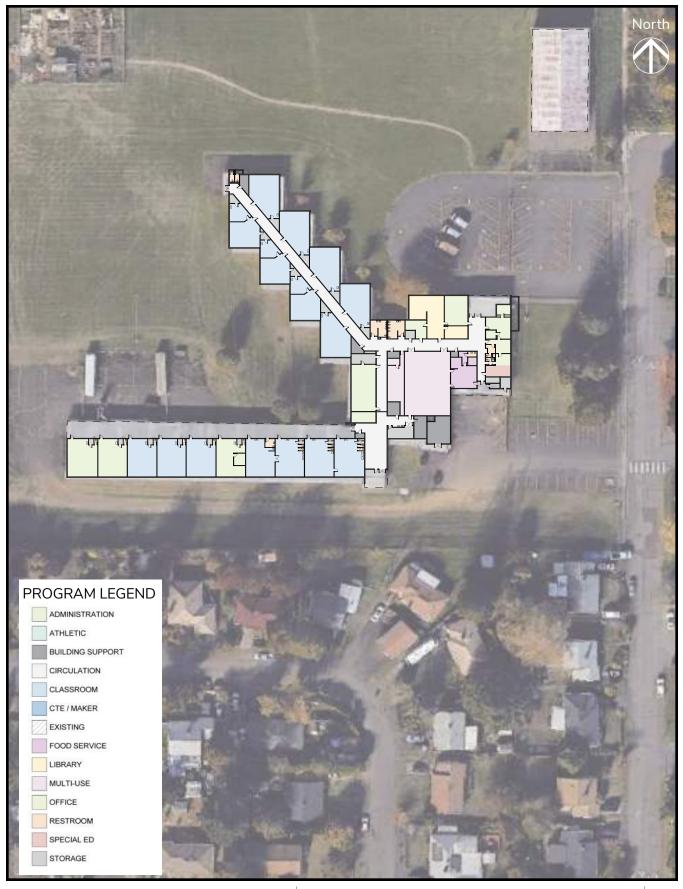


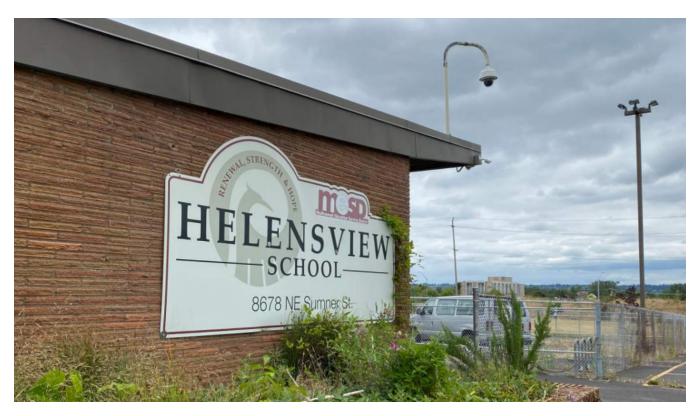
Parkrose School District Facilities Assessment

September 22, 2021 (DRAFT)

Soderstrom Architects 61

### **SITE PLAN**





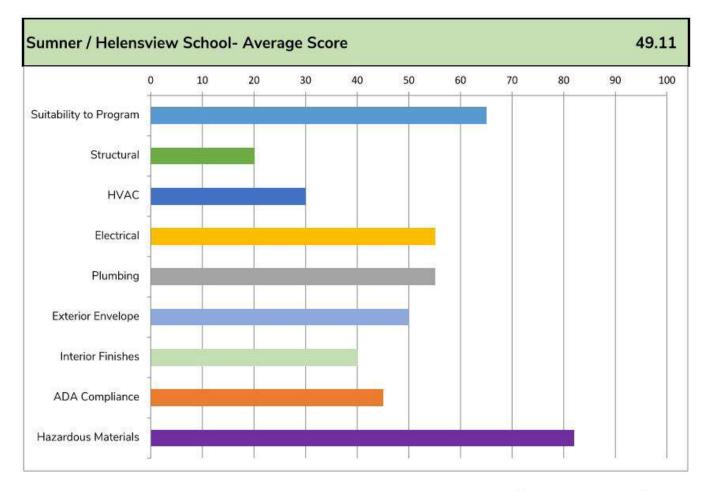
### **Facility Summary**

The original Sumner Elementary School has been operated by the Multnomah County Educational Services District (MESD) as Helensview School alternative high school for several years. As such, the building's educational adequacy was not fully evaluated and this assessment focuses primarily on the physical infrastructure of the building and it's supporting systems.

The building has significant needs as much of the repair and renovation scope has been deferred for several years. The school has not seen major projects as part of the last two bond cycles. Instead, the District has provided smaller-scale, more targeted projects that could be performed 'in-house' or the District could directly hire vendors to complete the work.

Major work identified includes roofing, window replacement (including seismically dangerous glass block), mechanical system replacement, boiler replacement, electrical panel replacement, and replacement of hot water heaters, plumbing fixtures and piping. Similar to all other elementary schools, this building is also listed as a 'Very High' seismic risk, and has a masonry chimney that should be considered.

Site Name:	Sumner Elementary
Building Name:	Helensview School
ODE Building ID:	21810005
Building Type:	High School
Students:	MESD
Building Address:	8678 NE Sumner St., Portland, OR 97220
County:	Multnomah
Gross Square Footage:	2,900
Site Acreage:	8.9
Year Built:	1954
Additions/Renovations:	1968, 1996, 1998
Number of Floors:	One (1)
Primary Structure:	Wood Framing
Roof Type:	Built-Up (SBS)
Replacement Budget:	\$21,934,341



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



# Architectural

- Complete roofing replacement, including gutters, fascia and trim.
- Replace all exterior windows, including glass block.
- Remove or reduce masonry chimney that represents a seismic risk.
- Evaluate modifying planter at entry that allows easier access to the roof.

## Site Safety and Security Analysis

- Consider adding a secure vestibule in future (not required at this time).
- The immediate neighborhood has a very busy street to the North with Killingsworth and represents a safety risk due to traffic.
- The surrounding neighborhood has an increased incident of crime and is not very conducive to outreach.

## Accessibility

- Restrooms are original in many situations and not designed to current accessibility standards.
- Rear entry has stairs up to access building but no ramp.
- Several interior corridor ramps exist that are too steep to meet accessibility requirements.
- Provide accessible route to stage area.

### Hazardous Materials and Indoor Air Quality

- Existing 9x9 asbestos floor tile remains in several classrooms and corridor areas that still requires abatement (sheet vinyl preferred material for replacement).
- Surface-mounted acoustic ceiling tile could potentially have asbestos in the mastic (glue) and should be evaluated if modified.
- Air quality has not been sampled for this report, but a health risk due to indoor air quality in this facility is unlikely due to the forced air heating and cooling system.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



## **Building Systems**

#### Fire Protection:

• No issues identified.

#### Plumbing:

- Replace plumbing fixtures and supply piping to the building.
- Replacement of existing domestic hot water heaters is recommended, due to age, capacity and overall condition.

#### Mechanical:

- Replace existing boiler system that is beyond it's natural lifespan.
- Replace the mechanical units that are well beyond their practical lifespan.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.
- Provide full mechanical controls upgrade.

#### Electrical:

• This building requires replacement of the existing electrical panels and upgrades / replacement of the older light fixtures, with new controls.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No issues identified.

#### **Communication and Security:**

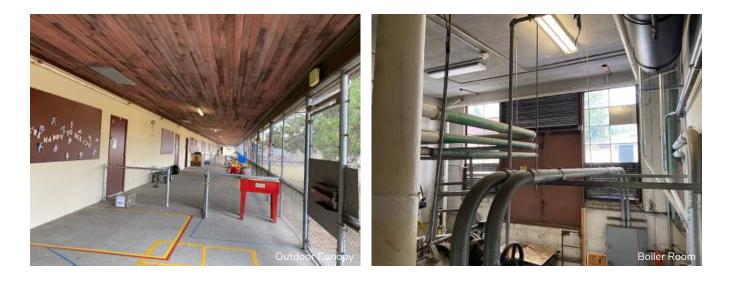
• No issues identified.

Refer to full report from Ameresco for more detail.

#### Structural

• The original classroom building is rated as a 'Very High' seismic risk.

Refer to full report from ZCS Engineering and Architecture for more detail.



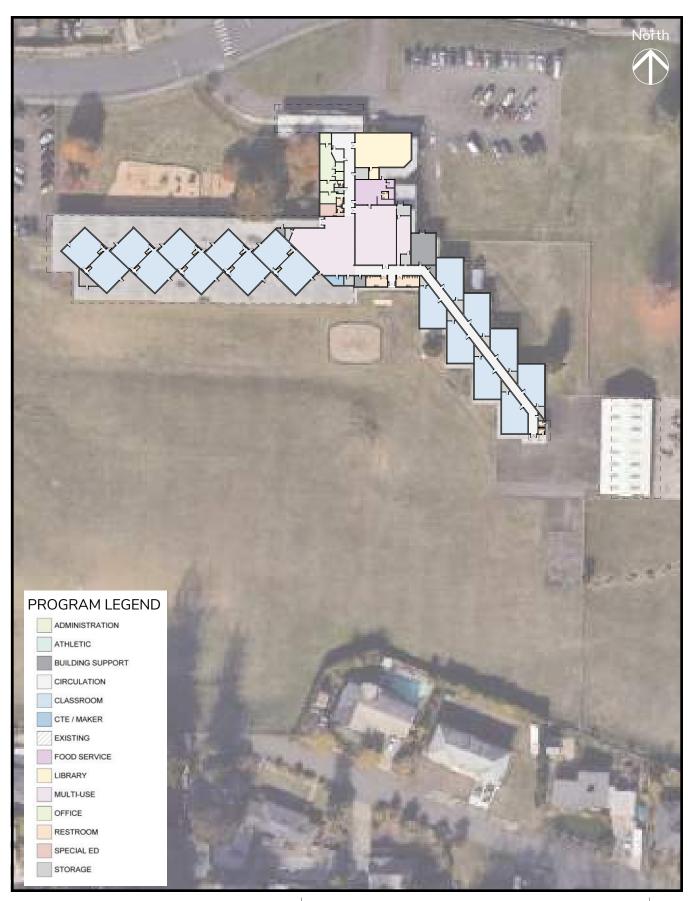
# 08 - THOMPSON ELEMENTARY SCHOOL (WHEATLEY) SITE PLAN



Parkrose School District Facilities Assessment

September 22, 2021 (DRAFT)

# 08 - THOMPSON ELEMENTARY SCHOOL (WHEATLEY) FLOOR PLAN





Site Name:

**Building Name:** 

Building Type:

Students:

County:

ODE Building ID:

**Building Address:** 

#### **Facility Summary**

The original Thompson Elementary School has been operated by the Multnomah County Educational Services District (MESD) as Wheatley Middle School for several years. As such, the building's educational adequacy was not fully evaluated and this assessment focuses primarily on the physical infrastructure of the building and it's supporting systems.

Like Helensview, no major bond projects have been completed recently and there are significant needs throughout.

Major needs identified include window replacement (including seismically dangerous glass block), mechanical system replacement, boiler replacement, electrical panel replacement, and replacement of plumbing fixtures and piping. It's a site that has been recommended to add fire sprinklers for added safety. The concrete entry canopy needs repair as well.

Gross Square Footage: 50,400 Site Acreage: TBD 1958 Year Built: Additions/Renovations: TBD Number of Floors: One(1) **Primary Structure:** Wood Framing Roof Type: Built-Up (SBS Replacement Budget: \$25,769,016

Similar to all other elementary schools, this building is also listed as a 'Very High' seismic risk.

Thompson Elementary

14030 NE Sacramento St.,

Portland, OR 97230

Wheatley School

21810004

Multnomah

MESD

Middle School



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



# Architectural

- Replace all exterior windows, including glass block.
- Repair exterior concrete entry canopy showing water damage.
- Re-point, clean and re-seal brick masonry veneer exterior.
- Interior finishes, ceilings and casework are all beyond their natural life and are recommended for replacement.
- Repair downspouts at Covered Play Structure, where they have been cut short and daylight / dump out onto the site.
- Remove rust and repair / replace panels at Covered Play Structure as needed.
- Re-roofing is recommended for the entire school.

### Site Safety and Security Analysis

- Add pedestrian pathway (sidewalk) from the public right-of-way along the entry drive.
- Repair site paving at playrground, parking area and roadway.

### Accessibility

- Restrooms are original in many situations and not designed to current accessibility standards.
- Provide accessible route to stage area.

### Hazardous Materials and Indoor Air Quality

- There is significant 9x9 resilient floor tile, typically an indication of asbestos-containing material.
- The age of the building would indicate a typically high level of hazardous materials otherwise, including lead paint and radon.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



### **Building Systems**

#### Fire Protection:

• While not required by code, it is recommended to add fire sprinklers to the building, in order to increase the overall safety of the site.

#### Plumbing:

• Replace plumbing fixtures and supply piping to the building.

#### Mechanical:

- Replace existing boiler system that is beyond it's natural lifespan.
- Replace the mechanical units that are well beyond their practical lifespan.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.
- Provide full mechanical controls upgrade.

#### Electrical:

• This building requires replacement of the existing electrical panels and upgrades / replacement of the older light fixtures, with new controls.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No issues identified.

#### **Communication and Security:**

• No issues identified.

Refer to full report from Ameresco for more detail.

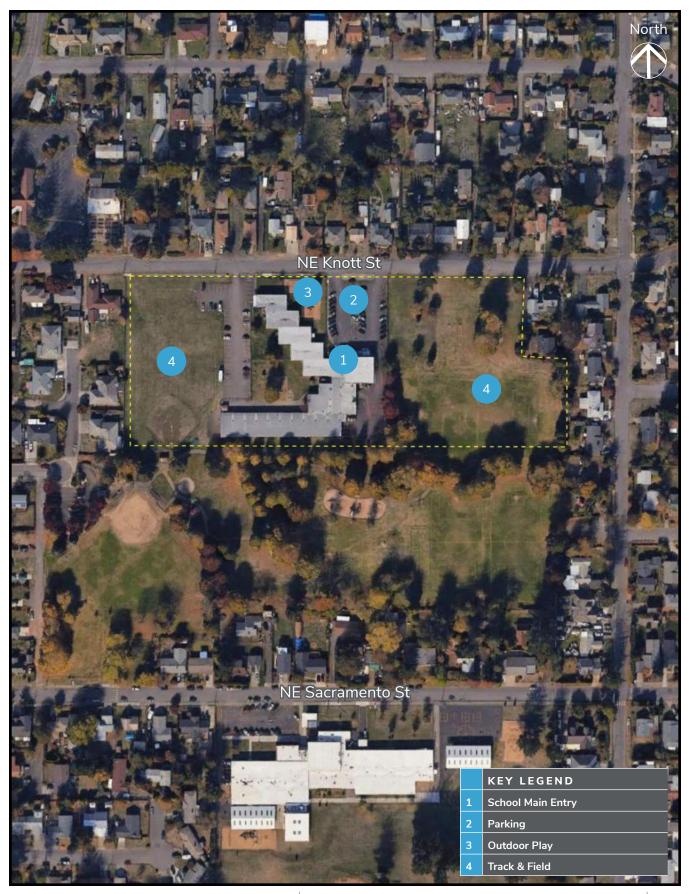
### Structural

• The original classroom building is rated as a 'Very High' seismic risk.

Refer to full report from ZCS Engineering and Architecture for more detail.



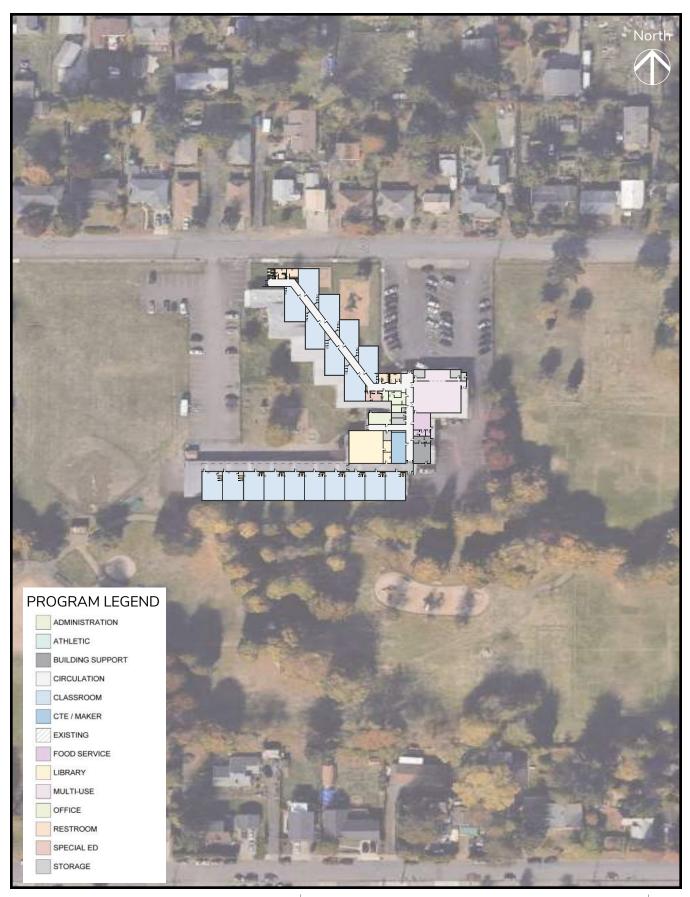
#### SITE PLAN



Parkrose School District Facilities Assessment

September 22, 2021 (DRAFT)

#### **FLOOR PLAN**





Site Name:

Building Name

#### **Facility Summary**

The original Knott Elementary School has been operated by the Multnomah County Educational Services District (MESD) as Knott Creek Elementary for several years. As such, the building's educational adequacy was not fully evaluated and this assessment focuses primarily on the physical infrastructure of the building and it's supporting systems.

Similar to Helensview and Wheatley, there has been years of deferred maintenance.

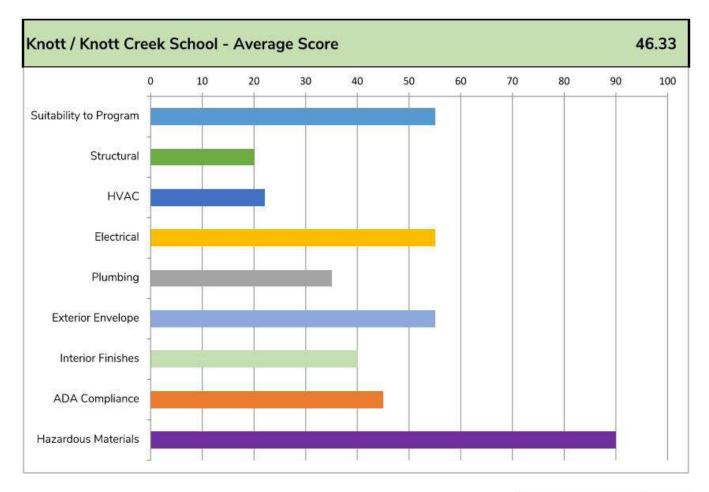
Major work identified includes roofing, window replacement (including seismically dangerous glass block), mechanical equipment replacement, electrical panel replacement, and replacement of hot water heaters, plumbing fixtures and piping. Similar to all other elementary schools, this building is also listed as a 'Very High' seismic risk, and has a masonry chimney that should be considered.

Dullully Name.	KIIULL CIEEK LIEITIEITLAI y
ODE Building ID:	21810003
Building Type:	Elementary School
Students:	MESD
Building Address:	11456 NE Knott St., Portland, OR 97220
County:	Multnomah
Gross Square Footage:	32,592
Site Acreage:	5.29
Year Built:	1951
Additions/Renovations:	N/A
Number of Floors:	One (1)
Primary Structure:	Wood Framing
Roof Type:	Built-Up (SBS)
Replacement Budget:	\$16,663,964

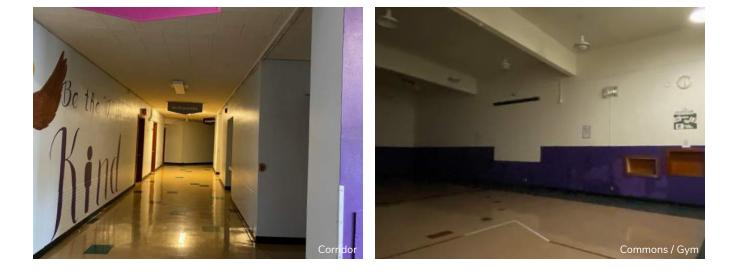
Knott Elementary School

Knott Creek Elementary

The original classroom building is also listed as a 'Very High' seismic risk.



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



#### Architectural

- Complete exterior window replacement is recommended, both aluminum and glass block.
- Exterior painting is recommended.
- Interior finishes, including flooring, ceilings, paint and casework, are worn and beyond their practical lifespan. Most are recommended for replacement.

#### Site Safety and Security Analysis

- The school doesn't currently have a secure vestibule and it's recommended to add it if the District were to take over use of the building again.
- Card key access is also recommended for future.
- With an entire wing that has an exterior corridor, there is a higher level of risk associated with them. The site is fully fenced to mitigate some of this risk.

#### Accessibility

- Several restrooms are not fully accessible and are recommended for replacement.
- Accessible path is needed to the stage area.
- Most plumbing fixtures are not installed to meet accessible guidelines, including sinks, toilets and drinking fountains.
- Steep ramps across the corridors are not to code and represent a potential risk.

#### Hazardous Materials and Indoor Air Quality

- There is significant 9x9 resilient floor tile, typically an indication of asbestos-containing material.
- The age of the building would indicate a typically high level of hazardous materials otherwise, including lead paint and radon.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



#### **Building Systems**

#### Fire Protection:

• While not required by code, it is recommended to add fire sprinklers to the building, in order to increase the overall safety of the site.

#### **Plumbing:**

- Replace plumbing fixtures and supply piping to the building.
- Replacement of existing domestic hot water heaters is recommended, due to age, capacity and overall condition.

#### Mechanical:

- Replace existing boiler system that is beyond it's natural lifespan.
- Replace the mechanical units that are well beyond their practical lifespan.
- Testing and retro-commissioning existing system is recommended to increase performance and efficiency overall.
- Provide full mechanical controls upgrade.

#### Electrical:

• This building requires replacement of the existing electrical panels and upgrades / replacement of the older light fixtures, with new controls.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No issues identified.

#### **Communication and Security:**

• No issues identified.

Refer to full report from Ameresco for more detail.

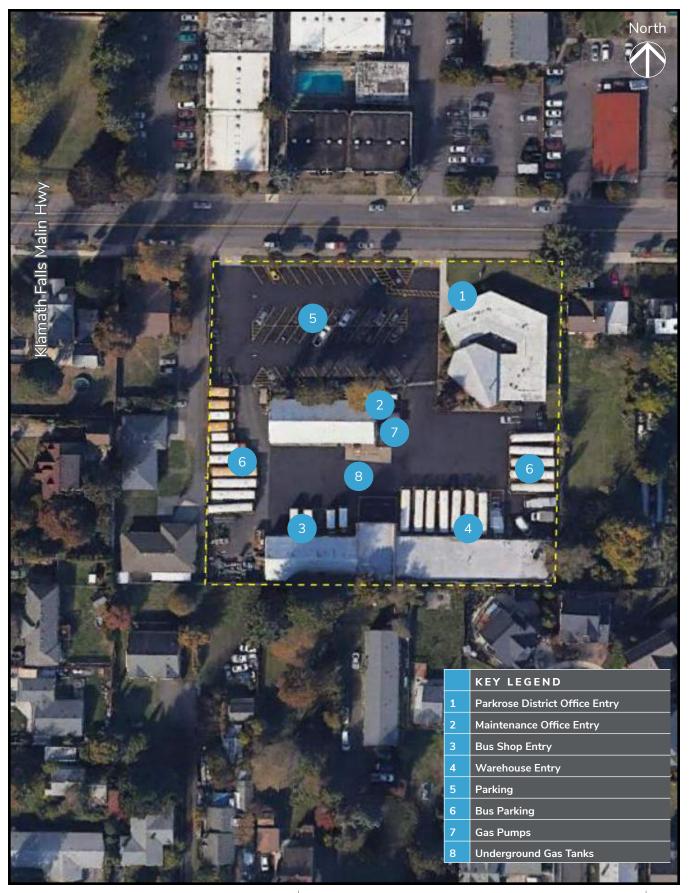
#### Structural

• The original classroom building is rated as a 'Very High' seismic risk.

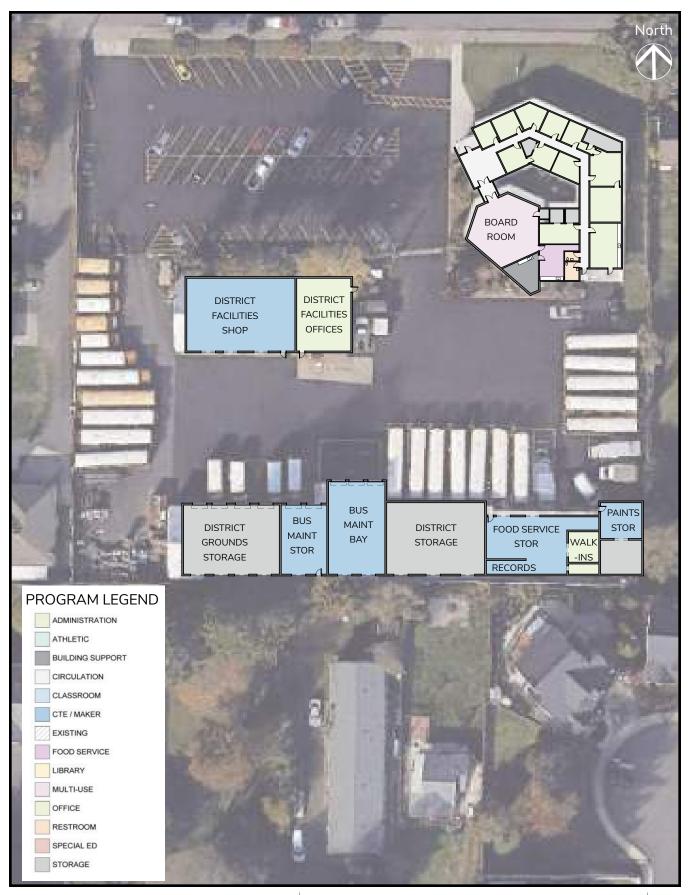
Refer to full report from ZCS Engineering and Architecture for more detail.



**SITE PLAN** 



#### **FLOOR PLAN**



Parkrose School District Facilities Assessment



#### **Facility Summary**

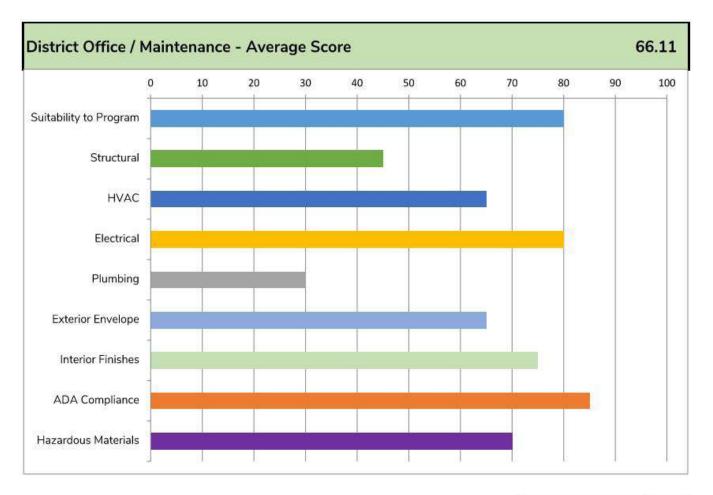
The District Office campus consists of three main buildings - the District Administration office, the Facilities Office and workshop, and the Bus Maintenance and Warehouse building. All are a similar age and have a significant needs at various levels. The District Office has seen the most recent upgrades, including window replacement, roofing and a secure vestibule added.

There are some renovations desired, including possibly infilling the Admin office courtyard and modifying the work room to modernize the space. The District has discussed also shifting the Nutrition Services staff to the Warehouse.

The Facilities and Maintenance buildings are both older industrial buildings that have had minimal maintenance but are still generally functional.

Many of these buildings represent a 'High' risk seismically and should be evaluated for long-term future use.

Site Name:	District Administration
Building Name:	Office, Facilities and Transportation / Warehouse
ODE Building ID:	21810000
Building Type:	Administration / Facilities
Students:	N/A
Building Address:	10636 NE Prescott St., Portland, OR 97220
County:	Multnomah
Gross Square Footage:	4,000
Site Acreage:	2.13
Year Built:	1965
Additions/Renovations:	N/A
Number of Floors:	One (1)
Primary Structure:	Wood Framing / CMU
Roof Type:	Built-Up (SBS), Metal
Replacement Budget:	\$10,420,877



Excellent	90 - 100
Satisfactory	70 - 90
Minor Modernization Needed	50 - 70
Modernization Needed	30 - 50
Major Modernization Needed	0 - 30



#### Architectural

#### ADMINISTRATION OFFICE

- Evaluate infiling the exterior courtyard for better utilization.
- Work Room minor renovation desired to better utilize the space.
- Modify Student Services for better efficiency.
- Minor wall reconfiguration to allow copier to be located in central alcove.
- Consider adding electronic monument sign for District identity.
- Roof requires evaluation, as gutters overflow regularly in strong rain.
- Reroofing recommended prior to 2035.

#### FACILITIES BUILDING

- Restore metal roofing throughout.
- Entire exterior planned for repainting soon.

#### WAREHOUSE / BUS + GROUNDS GARAGE

- Grounds storage isn't adequate and needs to be expanded.
- Replace hardware at all overhead doors, look to add power-operated doors throughout.
- Debris falls from ceiling in bus garage shop.
- Replace both vehicle lifts (original to the building).
- Restore metal roofing and replace built-up roofing.

#### Site Safety and Security Analysis

#### ADMINISTRATION OFFICE

- Add cameras at east side of building where multiple break ins have occurred in the past.
- Replace the older, worn sections of site fencing.

#### WAREHOUSE + BUS BARN

• Consider adding exterior alarms to deter thieves that get in past the fence / gate.

#### Accessibility

• For all buildings, the restrooms are not fully accessible and could be renovated to accommodate differently abled persons.

#### Hazardous Materials and Indoor Air Quality

- Due to the age of all three buildings, it's likely to assume there are hazardous materials within the building.
- The more recent renovations of the Administration Builling has likely removed some or most of the hazardous materials.

No hazardous materials testing has been performed as part of this evaluation. All information on the presence and performance of these materials has been provided by the District.



#### **Building Systems**

#### Fire Protection:

• While not required by code, it is recommended to add fire sprinklers to the building, in order to increase the overall safety of the site.

#### Plumbing:

WAREHOUSE / BUS + GROUNDS GARAGE

- Replace hot water heater platform (relatively new seismic strapping exists).
- Evaluate removing underground gas tanks and pumps.

#### Mechanical:

ADMINISTRATION OFFICE

• The building has four separate air conditioning units, which are inefficient and should be replaced with a centralized system, particularly considering the size of the building.

#### WAREHOUSE / BUS + GROUNDS GARAGE

• Space heater is too loud in bus garage shop and should be evaluated.

#### Electrical:

ADMINISTRATION OFFICE

• Modernize and upgrade the existing IT server room.

#### WAREHOUSE / BUS + GROUNDS GARAGE

• Electrical was upgraded but tied to computer, so turning off lights also turns off the computer and should be rectified.

#### Lighting:

- While some lighting replacement has occurred by the District already, we recommend full replacement of all non-LED fixtures with new.
- With new lighting, adding controls will increase efficiency and assist with ease of operations.

#### Fire Alarm:

• No issues identified.

#### **Communication and Security:**

• No issues identified.

Refer to full report from Ameresco for more detail.

#### Structural

- The original office building is rated as a 'High' seismic risk.
- Both the Facilities and Warehouse buildings are listed as 'Very High' seismic risk.
- At the overhead doors in the Bus Barn / Grounds Garage, the header has a huge notch removed from it, and likely compromised the structural intergrity.

Refer to full report from ZCS Engineering and Architecture for more detail.



## APPENDIX A

FACILITY CONDITION ASSESSMENT

## STRUCTURAL



# ZCS ENGINEERING ARCHITECTURE

September 3, 2021

Marlene Gillis Soderstrom Architects 1200 NW Naito Pkwy #410 Portland, Oregon 97209

Reference: Parkrose School District

Subject: Facilities Assessment Report

At your request, Soderstrom Architects has retained the services of ZCS Engineering and Architecture to review the existing facilities conditions for Parkrose School District (District). Per your request, ZCS representatives visited the facilities on a tour to observe the existing construction and identify and document any damaged structural elements. A review of as-built drawings provided by the District was also performed.

We have provided a comprehensive assessment of all the observable structural deficiencies for the school facilities throughout the District, Prescott Elementary School, Russell Academy, Sacramento Elementary School, Shaver Elementary School, Parkrose Middle School, Parkrose High School, Sumner Elementary School (Helensview), Thompson Elementary School (Wheatley), Knott Elementary School (Knott Creek), and the District Office and Maintenance. The deficiencies noted in this assessment should be addressed with any future repairs, retrofits, or remodels as budget allows. Unless otherwise noted in this report very little distress to structural components were observed. Destructive investigation, testing, or any other formal analysis were not performed during this investigation.

The following outlines each of the facility evaluations referenced above.

#### **Prescott Elementary School**

Prescott Elementary School is located at 10410 NE Prescott St. in Portland, Oregon and was constructed in 1947 with an approximate footprint of 33,300 square feet. The building is a single-story structure consisting of wood framed bearing walls with brick veneer on exterior walls. A partial basement consisting of cast-in-place concrete exterior walls is located at the eastern portion of the building. The basement floor consists of a concrete slab on grade and the second floor framing consists of wood beams and joists supported by bearing walls and steel columns in the basement. The classroom wing floor consist of wood framed joists over

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crawlspace. The roof structure is framed with trusses in the multipurpose room and conventional 2x wood framing in the remaining areas. Portions of the building has glass block, which lacks structural integrity and is considered a seismic falling hazard. The north side of the classroom wing consists of fiber cement siding, which has a large amount of damage. Although this damage is primarily cosmetic, it is possible that the compromised siding can cause structural damage in the form of rotting framing members, mold and rodent damage if left unmitigated.



Figure 1: Damage to siding and downspout

A separate annex building is located to the south of the original school building. This 12,100 square foot building was constructed in 1959 and consists of cast-in-place concrete exterior walls. The floor consists of concrete slab on grade, and the roof structure is 1x diagonal sheathing over wood joists supported by bearing walls and steel beams.

Between the main school building and the annex is a covered play area, with a structure consisting of knee-braced steel columns, glulam beams and purlins, and corrugated plastic roof. On the west end of the original school building is another covered play with a structure consisting of steel columns and a wood frame roof. These structures are excluded from this evaluation.

In 1996, a number of seismic upgrades were implemented as part of larger fire and life safety upgrades. The upgrades include installation of plywood shear walls, installation of hardware for in-plane force transfer from roof to walls, installation of plywood roof diaphragms, and attachment of walls to the foundations. These upgrades do not constitute a comprehensive seismic retrofit, and further efforts to evaluate the current seismic hazards of this school is recommended.



No other structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.

#### **Russell Academy**

Russell Academy is located at 2700 NE 127<sup>th</sup> Ave. in Portland, Oregon and was constructed in 1963 with an approximate footprint of 47,000 square feet. The building is a single-story structure consisting of wood framed interior and exterior walls. The floor consists of concrete slab on grade, and the roof structure is framed with glulam beams and straight decking. Moisture damage to the exterior glulam beams and decking was observed at the exterior covered areas. Further investigation into the condition of these members and suggested treatment is recommended.



Figure 2: Damage at covered walkway areas

In 1966, the original classroom wing was expanded with an additional 4 classrooms and a covered play area. This structure was constructed using similar methods to that of the original building.

In 1996, a number of seismic upgrades were implemented as part of larger fire and life safety upgrades. The upgrades include installation of plywood shear walls, installation of hardware for in-plane force transfer from roof to walls, installation of plywood roof diaphragms, and attachment of walls to the foundations. These upgrades do not constitute a comprehensive seismic retrofit, and further efforts to evaluate the current seismic hazards of this school is recommended.



In 2014, a new 5,200 square foot multipurpose room addition was constructed in the northwest corner of the campus. This is a post-benchmark building constructed to current code and therefore have no seismic or structural deficiencies.

Damage and cracking is also apparent in brick veneer pilasters, which was reconstructed as part of the 1996 seismic upgrades. It is our recommendation to remove and reinstall the veneer at these locations.



Figure 3: Damaged brick veneer

Adjacent to the classroom wing is a covered play area, with a structure consisting of preengineered metal building with metal roof. This structure is excluded from this evaluation.

No other structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.

#### Sacramento Elementary School

Sacramento Elementary School is located at 11400 NE Sacramento St. in Portland, Oregon and was originally constructed in 1960 with an approximate footprint of 43,500 square feet. The school structure consists of a single-story classroom building with a centrally located multipurpose room. The entire school is constructed using cast-in-place concrete foundations

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and wall elements. The interior bearing walls consist of wood framed stud walls. The floor consists of concrete slab on grade. The roof framing consists of diagonal 1x sheathing supported by 2x wood framing.

In 1996, a number of seismic upgrades were implemented as part of larger fire and life safety upgrades. The upgrades include installation of plywood shear walls, installation of hardware for in-plane force transfer from roof to walls, and attachment of walls to the foundations. These upgrades do not constitute a comprehensive seismic retrofit, and further efforts to evaluate the current seismic hazards of this school is recommended.

A new gymnasium building was added on the south side of the existing school building in 2014. This 4,400 square foot structure consists of wood framed exterior bearing walls with brick veneer. The floor is slab on grade and the roof framing consists of wood open web joists and plywood sheathing. At the same time, new administration offices were added to the north side of the existing building. This 2,100 square foot portion of the building is also constructed using wood framed bearing walls with brick veneer. The floor is slab on grade and roof framing consists of wood I-joists and plywood sheathing. These additions are considered postbenchmark buildings and therefore have no seismic or structural deficiencies.

On the campus there are two covered play areas, with structures consisting of pre-engineered metal buildings with metal roof. These structures are excluded from this evaluation.

No structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given their age.

#### Shaver Elementary School

Shaver Elementary School is located at 3701 NE 131<sup>st</sup> Pl. in Portland, Oregon and was constructed in 1963 with an approximate footprint of 50,400 square feet. The building is a single-story structure consisting of cast-in-place concrete exterior walls. The floor consists of concrete slab on grade, and the roof structure is framed with 1x diagonal sheathing and wood joists supported by bearing walls and steel beams. The gymnasium roof structure consists of 1x diagonal sheathing and wood joists supported by glulam beams.

In 1965, a 6-classroom expansion of the existing classroom wing was constructed. The structural system is similar to that of the original construction.

In 1996, a number of seismic upgrades were implemented as part of larger fire and life safety upgrades. The upgrades include installation of plywood shear walls, installation of hardware for in-plane force transfer from roof to walls, and attachment of walls to the foundations. These upgrades do not constitute a comprehensive seismic retrofit, and further efforts to evaluate the current seismic hazards of this school is recommended.



In 2014, a new 5,200 square foot multipurpose room addition was constructed in the southeast corner of the campus. This is a post-benchmark building constructed to current code and therefore have no seismic or structural deficiencies.

On the campus there is also a covered play area, with a structure consisting of a preengineered metal building with metal roof. This structure is excluded from this evaluation.

No structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.

#### Parkrose Middle School

Parkrose Middle School is located at 11800 NE Shaver St. in Portland, Oregon and was constructed in 2013 with an approximate footprint of 145,000 square feet. The building is a two-story structure consisting of reinforced masonry exterior walls. The floor consists of concrete slab on grade, the second floor consists of concrete slab on metal deck, and the roof structure is framed with steel beams and metal decking.

This is a post-benchmark building constructed to current code and therefore have no seismic or structural deficiencies.

#### Parkrose High School

Parkrose High School is located at 12003 NE Shaver St. in Portland, Oregon and was constructed in 1996 with an approximate footprint of 190,500 square feet. The campus consists of multiple building parts with different structural systems. The classroom wings are two-story buildings supported by steel framing, braced frames, and a concrete slab on grade for the main level and concrete slab on metal deck for the elevated second floor. The library and student center is a single-story structure similarly constructed using steel framing and braced frames. The auditorium, gymnasium and pool buildings are all constructed using reinforced concrete masonry unit (CMU) bearing walls with steel framed roof systems. The band and music spaces are constructed as a two-story building attached to the north side of the auditorium building. This portion of the building is also steel framed, with a concrete slab on metal deck for the second floor.

A separate fine arts building is located to the west of the high school building and is the only remaining portion of the original 1968 high school facility on this campus. This structure is a 16,400 square foot building also consisting of cast-in-place concrete exterior walls. The floor consists of concrete slab on grade, and the roof structure is wood framed joists and 1x diagonal sheathing supported on steel beams.

A grandstand structure built in 1962 is also included on the campus. This building is constructed using CMU walls below the grandstands and a roof structure consisting of metal decking over

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steel purlins supported by steel beams and columns. It appears that the press box superstructure installed on the roof of the grandstands is of newer construction, but we would recommend investigating the adequacy of the existing structure to accommodate this newer addition. Other buildings associated with the athletic fields have been excluded from this evaluation.

No other structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.

#### Sumner Elementary School (Helensview)

Sumner Elementary School is located at 8678 NE Sumner St. in Portland, Oregon. The original school building was constructed in 1954 with an approximate footprint of 42,900 square feet. The building is a single-story structure consisting of cast-in-place concrete exterior walls. The interior bearing walls consist of wood framed stud walls. The floor consists of concrete slab on grade, the roof framing consists of diagonal 1x sheathing supported by 2x wood framing. The multipurpose room has glulam roof beams supporting 2x rafters and 1x diagonal sheathing. Portions of the building has glass block, which lacks structural integrity and is considered a seismic falling hazard. The multipurpose roof has a large crack in the exterior concrete wall, which appears to have been repaired multiple times. The cause of this crack is not clear, but does not appear to pose significant risk to the building.



Figure 4: Crack in exterior concrete wall

On the campus there is also a covered play area, with a structure consisting of a preengineered metal building with metal roof. This structure is excluded from this evaluation.

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No other structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.

#### **Thompson Elementary School (Wheatley)**

Thompson Elementary School is located at 14030 NE Sacramento St. in Portland, Oregon. The original school building was constructed in 1958 with an approximate footprint of 50,400 square feet. The building is a single-story structure consisting of cast-in-place concrete exterior walls. The interior bearing walls consist of wood framed stud walls. The floor consists of concrete slab on grade, the roof framing consists of concrete frames supporting concrete channel slab. The multipurpose room has concrete roof beams supporting concrete channel slab. Portions of the building has glass block, which lacks structural integrity and is considered a seismic falling hazard.

The front entry canopy shows significant decay of the concrete, with corroded rebar exposed. We would recommend repairing or replacing this canopy to avoid further deterioration resulting in falling debris or collapse.



On the campus there is also a covered play area, with a structure consisting of a preengineered metal building with metal roof. This structure is excluded from this evaluation.

Figure 5: Deteriorated concrete at front entry canopy

No other structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.



#### Knott Elementary School (Knott Creek)

Knott Elementary School is located at 11456 NE Knott St. in Portland, Oregon and was constructed in 1951 with an approximate footprint of 36,600 square feet. The building is a single-story structure consisting of cast-in-place concrete exterior walls. The interior bearing walls consist of wood framed stud walls. The floor consists of concrete slab on grade, the roof framing consists of diagonal 1x sheathing supported by 2x wood framing. The multipurpose room has glulam roof beams supporting 2x rafters and 1x diagonal sheathing. Portions of the building has glass block, which lacks structural integrity and is considered a seismic falling hazard.

In 1958, a 2-classroom addition was constructed on the west end of the existing classroom wing. This was built using a similar structural system to the original structure.

A 3,000 square foot addition was constructed in 1965. This building addition is a single-story structure consisting of cast-in-place concrete exterior walls. The interior bearing walls consist of wood framed stud walls. The floor consists of concrete slab on grade, the roof framing consists of diagonal 1x sheathing supported by 2x wood framing.

On the campus there is also a covered play area, with a structure consisting of a preengineered metal building with metal roof. This structure is excluded from this evaluation.

No structural deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given its age.

#### **District Office/Maintenance**

The district office and maintenance facilities are located at 10636 NE Prescott St. in Portland, Oregon. The district office is a 7,200 square foot wood framed structure constructed in 1965. The roof structure consists of wood rafters supporting 1x diagonal sheathing. The board room roof structure consists of steel beams supporting wood rafters and 1x decking. Portions of the exterior walls have brick veneer.

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The 7,600 square foot maintenance facility buildings were constructed in 1955 and consist of cast-in-place concrete walls with wood raftered trusses and straight decking. Several garage door openings are located on the north side of the building, with sections of the concrete headers removed. It appears that existing rebar in the headers was cut to accommodate these notches in the headers. It is not clear that these headers are adequate to support the roof structure in their current state. Further investigation of these headers and possible strengthening is recommended.



Figure 6: Damage to concrete headers

The bus garage and storage buildings were constructed in 1965 and consists of concrete exterior walls and moment frames. Some interior walls are CMU and the roof framing consists of 1x diagonal sheathing supported by 2x joists and glulam beams.

No other obvious structural damage or deficiencies were noted during the site walk. The buildings appeared to be in relatively good condition given their age.

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#### **Preliminary Seismic Assessment**

To assist the District, understand the seismic vulnerabilities of their facilities ZCS has performed Rapid Visual Assessments (RVS) of the seismic resisting systems utilizing the procedures outlined in Federal Emergency Management Act (FEMA) document P-154, "Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Handbook, 3<sup>rd</sup> Edition, January 2015. As part of these assessments a score is provided to rank the buildings regarding their potential for collapse during a design level seismic event. The following table outlines the rankings system for the four different categories.

<u>Risk</u>	<u>Score</u>	<b>Probability</b>
LOW	>2.0	Less than 1 in 100 chance of collapse
MODERATE (MOD) >1 AND < or = 2.00		Between 1 in 10 & 1 in 100 chance of collapse
HIGH	>0,0 AND < or =1.0	Between 100% & 1 in 10 chance of collapse
VERY HIGH	0.0 OR LESS	100% chance of collapse

In alignment with this ranking system, FEMA, has determined that all buildings with a score 2.0 should be considered to have inadequate performance during a design level seismic event.

For conformance, FEMA P-154 has set a score of 2.0 as the cut-off, at which, any score below would require additional structural evaluation. It is recommended that the District utilize the Seismic evaluation reporting as part of the Technical Assistance Program through ODE to perform the additional seismic evaluations.

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The following is the risk evaluation determined by the RVS evaluations attached in Appendix A. Given the varying types of construction and ages of those construction found throughout the schools we have tried our best to identify the differences in risk associated with each construction types when they could be determined.

Facility Name	Risk										
Prescott Elem	entary School										
Original Classroom Building	-1.0 – VERY HIGH										
1959 Addition (Annex)	-0.4 – VERY HIGH										
Russell Eleme	entary School										
Original School Building	-1.1 – VERY HIGH										
2014 Addition	5.1 – LOW										
Sacramento Elementary School											
Original School Building	-1.8 – VERY HIGH										
2014 Additions	5.1 – LOW										
Shaver Eleme	entary School										
Original School Building	-1.8 – VERY HIGH										
2014 Addition	5.1 - LOW										
Parkrose Mi	ddle School										
Original School Building	3.8 – LOW										
Parkrose H	igh School										
Classroom Wings	1.0 – HIGH										
Student Center/Library	1.0 – HIGH										
Auditorium, Gym and Pool	0.7 – HIGH										
Band/Music	1.0 – HIGH										
Fine Arts Building	1.3 – MODERATE										
Sumner Elem											
Original School Building	-1.8 – VERY HIGH										
Thompson Eler	nentary School										
Original School Building	-1.8 – VERY HIGH										
Knott Eleme	ntary School										
Original School Building	-1.8 – VERY HIGH										
1965 Addition	0.2 – HIGH										
District Office	/Maintenance										
District Office Building	0.6 – HIGH										
Maintenance Facility	-0.6 – VERY HIGH										
Garage and Storage	-1.6 – VERY HIGH										

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#### **Conclusion**

The findings described in this report have been limited to visual observations and a general assessment of the structural systems. Based on our visual observations, we find the structures to be in good condition and generally safe for occupancy.

No significant damage to the existing structural systems was discovered.

Given the current condition of the structures, the current code section on existing buildings does not mandate that upgrades are required unless the building is scheduled for repairs, alterations, additions, or change in occupancy.

We have attempted to identify all areas where structural damage was evident. It should be known that many areas of the structures were covered with interior or exterior finishes and could not be observed.

#### **Limitations & Exclusions**

This inspection was performed for the purpose of providing information regarding major and obvious structural deficiencies specifically identified by the Client as referenced in the above scope and excludes the following:

- General exterior: including exterior envelopes (paint, siding and weather proofing, etc.), drainage systems, grading, roofing, gutters, downspouts, retaining structures, and chimneys.
- General interior: including insulation, ventilation, windows, ceilings, wall coverings, and floor coverings.
- All mechanical systems: including plumbing, fixtures and piping, hot water heater, heating, ventilation, and air-conditioning.
- All electrical systems: including all panels, low voltage, and high voltage circuitry and fixtures.
- Pests and other wood destroying organisms.
- Wells, swimming pools, septic systems, fire sprinkler and detection systems, and lawn sprinkler systems.

Maintenance and other items not specifically identified in the scope of our assignment may have been discussed, but they are not part of this inspection and report.

The inspection is not a code compliance inspection or certification based on past or present municipal codes of any kind.

This report is for the sole, confidential and exclusive use of the Client and the District.

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Parkrose School District Facilities Assessment September 22, 2021 (DRAFT)



This inspection took place within the readily accessible areas of the building and is limited to visual observations of evident conditions existing at the time of the inspection only. No structural analysis was performed to substantiate the structure's performance during prescribed code loading events.

Concealed and latent defects and deficiencies are excluded from this inspection.

Systems were not dismantled to provide inspection access.

Destructive investigation and testing was not performed.

It is understood that ZCS Engineering, Inc. is not an insurer and that this inspection and report are not intended or to be construed as an express or implied guarantee or warranty of adequacy, performance, or condition of the structure at the inspected property address. No guarantee or warranty of the structure's performance outside the loading observed at the time of inspection can be made.

We hope this information is helpful in identifying the next steps for the District with respect to this facility. In the event additional investigation or design is desired, please contact us. We would be happy to help the district achieve any goals for these facilities.

Please review this information and contact our office with any questions. Should you have any concerns, please call our office at (503) 659-2205.

Thank you

Matthew R. Smith, PE, SE



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### Rapid Visual Screening of Buildings for Potential Seismic Hazards

FEMA P-154 Data Collection Form

#### Level 1 A HIGH Seismicity

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Basic Score		3.6	3.2	2.9		2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub>		-1.2 -0.7	-1.2 -0.7	-1.2 -0.7	-1.0 -0.6	-1.0 -0.6	-1.1 -0.7	-1.0 -0.6	-0.8 -0.5	-0.9 -0.5	-1.0 -0.6	-0.7 -0.4	-1.0 -0.6	-0.9 -0.5	-0.9 -0.5	-0.9 -0.5	-0.7 -0.4	NA NA
Plan Irregularity, PL1		-1.1	-1.0	(10)		-0.7	-0.9	-0.7	-0.6	0.6	-0.8	0.5	-0.7	-0.6	-0.7	-0.7	0.4	NA
Pre-Code		-1.1	-1.0	0.9		-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark Soil Type A or B		1.6 0.1	1.9 0.3	2.2 0.5	1.4 0.4	1.4 0.6	1.1 0.1	1.9 0.6	NA 0.5	1.9 0.4	2.1 0.5	NA 0.3	2.0 0.6	2.4 0.4	2.1 0.5	2.1 0.5	NA 0.3	1.2 0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9	-0.6	-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
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#### Rapid Visual Screening of Buildings for Potential Seismic Hazards

FEMA P-154 Data Collection Form

#### Level 2 (Optional) A HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Prescott Elementary School - Main	Final Level 1 Score:	$S_{L1} = 1.0$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -1.0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 2.0$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE									
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals					
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other		-1.2	Custotalo					
Irregularity, $V_{L2}$	Site	Non-W1 building: There is at least a full story grade change from one side of the building to the		or	$\boxed{03}$						
integularity, VL2	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			0.6						
	and/or	W1 building cripple wall. All unbraced cripple wall is visible in the craw space. W1 house over garage: Underneath an occupied story, there is a garage opening without	a stool m	oment frame	-0.0						
	Soft Story										
	(circle one										
	maximum)	maximum) length of the building.									
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story al story is more than 2.0 times the height of the story above.			-0.9						
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a of any story is between 1.3 and 2.0 times the height of the story above.	at story at	ove or height	-0.5						
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	/ below ca	ausing the							
		diaphragm to cantilever at the offset.		0	-1.0						
		Vertical elements of the lateral system at upper stories are inboard of those at lower stories	es.		-0.5						
		There is an in-plane offset of the lateral elements that is greater than the length of the ele			-0.3						
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in		system have							
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.		•	-0.5						
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of t	he depth	of the spandrel,	0.5						
	Calit Laval	or there are infill walls or adjacent floors that shorten the column.			-0.5						
	Split Level	There is a split level at one of the floor levels or at the roof.	! ! .			V <sub>L2</sub> = -1.3					
	Other	There is another observable severe vertical irregularity that obviously affects the building'									
Plan	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se egularity: Lateral system does not appear relatively well distributed in plan in either or both d			-0.5	(Cap at -1.2)					
		souranty. Lateral system does not appear relatively well distributed in plan in either or both d V1A open front irregularity listed above.)	irections.	(D0 1101	07						
Irregularity, P <sub>L2</sub>		system: There are one or more major vertical elements of the lateral system that are not or	bogonalt	a agab other	0.4						
		prner: Both projections from an interior corner exceed 25% of the overall plan dimension in			-0.4						
		ppening: There is an opening in the diaphragm with a width over 50% of the total diaphragm			-0.2						
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.	i wiulii al	liat level.	-0.2	$P_{L2} = -0.7$					
		arity: There is another observable plan irregularity that obviously affects the building's seisn	ic porfor	manco	-0.4	(Cap at -1.1)					
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.	lic periori	nance.	+0.3	(Cap at -1.1)					
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.	i	(Cap total							
Pounding		1% of the height of the shorter of the One building is 2 or more stories taller than the other of the the shorter of the One building is 2 or more stories taller than the other of the One building is 2 or more stories t		pounding	10						
		adjacent structure and: The building is 2 of more stones take than the out		modifiers at -1.2)							
S2 Building		eometry is visible.	î	mounters at -1.2)	-1.0						
C1 Building		rves as the beam in the moment frame.			0.4						
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending		t combine with	+0.3						
		nark or retrofit modifier.)	g. (D0 110)	combine with	10.0						
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	h as in a	warehouse)	+0.3						
URM	Gable walls		JI 45 II 4	warehouse).	-0.4						
MH		upplemental seismic bracing system provided between the carriage and the ground.			+1.2						
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	M=					
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}: \cdot 1.0$				to Level 1 form)					
		$S_{L2} - (S + V_{L2} + P_{L2} + W) \ge S_{MIN}$ deterioration or another condition that negatively affects the building's seismic performance		es 🔳 No	าาสาเอเฮเ						
		the comment box below and indicate on the Level 1 form that detailed evaluation is required			ina's score						
n yes, describe li		and common box bolow and indicate on the Level From that detailed evaluation is required	macpen		119 3 30018						
OBSERVABL	E NONSTR	UCTURAL HAZARDS									
Location	Statement (	Check "Yes" or "No")	Yes	No	Com	ment					
Exterior	There is an u	unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		x							
		vy cladding or heavy veneer.	х		Brick v	reneer					
	There is a he	eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x							
		Inreinforced masonry appendage over exit doors or pedestrian walkways.		x							
		gn posted on the building that indicates hazardous materials are present.		x							
		ller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		x							
		/ed exterior nonstructural falling hazard:	х		Glass	block					
Interior		Illow clay tilo or brick partitions at any stair or ovit corridor	1								

 Other observed interior nonstructural falling hazard:
 ×

 Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)
 ×

Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended
 Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

Nonstructural nazards identified with significant threat to occupant life safety —>No Detailed Nonstructural Evaluation required

Comments:

Interior

There are hollow clay tile or brick partitions at any stair or exit corridor.

Glass block

#### Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 B HIGH Seismicity

	-			5	1	Add	iress:	10410 NE Pret	ott St.								
~								Portland, C	R .				2	<b>zip:</b> <sub>97220</sub>	)		
and the second				ALC: N		Oth	er Ident	ifiers:									
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FEMA BUILDING TYPE DoN		W1A	W2		S2	S3	S4	S5		C2	C3	.1 PC1	PC2	RM1	RM2	URM	мн
C2 Kat				(MRF)	(BR)	(LM)	(RC SW)	(URM INF)	(MRF)	(SW)	(URM INF)	(TU)		(FD)	(RD)	••••	
Basic Score	3.6	3.2	2.9		2.0	2.6	2.0	1.7	1.5	20	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, VL1	-1.2 -0.7	-1.2	-1.2		-1.0	-1.1 -0.7	-1.0 -0.6	-0.8	-0.9 -0.5	-1.0 -0.6	-0.7 -0.4	-1.0 -0.6	-0.9	-0.9	-0.9	-0.7 -0.4	NA
Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub>	-0.7	-0.7 -1.0	-0.7 -1.0		-0.6 -0.7	-0.7	-0.6	-0.5 -0.6	-0.5		-0.4	-0.6	-0.5 -0.6	-0.5 -0.7	-0.5 -0.7	0.4	NA NA
Pre-Code	-1.1	-1.0	-0.9		-0.6	-0.8	-0.6	-0.2	-0.4	$\bigcirc$	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark	1.6	1.9	2.2		1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B	0.1 0.2	0.3 0.2	0.5		0.6 -0.4	0.1 0.2	0.6 0.1	0.5 -0.4	0.4 0.0	0.5 0.0	0.3 -0.2	0.6 -0.3	0.4 -0.1	0.5 -0.1	0.5 -0.1	0.3 -0.2	0.3 -0.4
Soil Type E (1-3 stories) Soil Type E (> 3 stories)	-0.3	-0.6	-0.9		0.4	NA	-0.6	-0.4	-0.5	-0.7	-0.2	NA	-0.4	-0.5	-0.6	-0.2	-0.4 NA
Minimum Score, S <sub>MIN</sub>	1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{T1}$	///N: 0.5																
EXTENT OF REVIEW				OTHER	R HAZ	ARDS	5		ACT	ION RI	EQUIR	ED					
	All Sides	=		Are There				4	Detail	ed Struct	ural Eva	luatio	n Require	ed?			
	Visible	🔳 Ente	ered	Detailed \$						es, unkno				r other b	uilding		
Soil Type Source:	_ NO Assumed				ding pot ff, if knov		nless S <sub>L2</sub>	>		es, score es, other l							
Geologic Hazards Source:	DOGAM	I		🗌 Fallin	g hazar		aller adja	cent					•				
Contact Person:				buildi		arda or C	Soil Type	-	Detail	ed Nonst	ructural	Evalua	ation Rec	commen	ded? (ch	eck one)	
LEVEL 2 SCREENING PER	FORME	D?					on rype eterioratic			es, nonstr							
Yes, Final Level 2 Score, S <sub>L2</sub>		N	0		tructural					o, nonstru etailed eva				may requ	ure mitiga	ation, but	а
Nonstructural hazards? Yes		N	0							o, no non				ed [	] DNK		
Where information	on cannot l	oe verifie	d, scr	eener shal	l note tl	he follow	ving: ES	ST = Esti	mated o	r unrelia	ble data	OR	DNK = D	o Not Ki	iow		
Legend: MRF = Moment	resisting frar	ne l	RC = R	einforced cor	ncrete		URM INF : TU = Tilt u		rced maso	onry infi <b>ll</b>		= Manuf = Light m	actured Ho			le diaphrao diaphragm	

#### Rapid Visual Screening of Buildings for Potential Seismic Hazards

FEMA P-154 Data Collection Form

#### Level 2 (Optional) B HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Prescott Elementary School - 1959 Addition (Annex)	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, V <sub>L1</sub> = 0	Plan Irregularity, $P_{L1} = -0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA	L MODIFIEI	RS TO ADD TO ADJUSTED BASELINE SCORE					
Торіс	Statement (	If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	e other.			-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building		ner.		-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.		-0.6			
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	me,				
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use	-1.2				
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) o					
	maximum)	length of the building.		-1.2			
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story a story is more than 2.0 times the height of the story above.	above or h	neight of an	ıy	-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that of any story is between 1.3 and 2.0 times the height of the story above.	at story a	bove or hei	ight	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	v helow c	ausing the		0.0	
	OCIDAOK	diaphragm to cantilever at the offset.	y below e	ausing the		-1.0	
	1	Vertical elements of the lateral system at upper stories are inboard of those at lower stor	65			0.5	
	1	There is an in-plane offset of the lateral elements that is greater than the length of the ele				-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in		al system h	2\/A	0.0	
	Column/	hight/depth ratios less than 50% of the nominal height/depth ratio at that level.		a system i	ave	-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of	the denth	of the spar	ndrel	0.0	
		or there are infill walls or adjacent floors that shorten the column.		or the open	narol,	-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.				-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building	's seismic	: performan	nce.		V <sub>L2</sub> =0
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's s				-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or both					. , ,
Irregularity, PL2		V1A open front irregularity listed above.)		. (		$\bigcirc \mathcal{D}$	
5 ,,		system: There are one or more major vertical elements of the lateral system that are not o	thogona	to each oth	ner.	-0.4	
		prner: Both projections from an interior corner exceed 25% of the overall plan dimension in				-0.4	
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphrag				-0.2	
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.				-0.4	$P_{L2} = -0.7$
		arity: There is another observable plan irregularity that obviously affects the building's seis	nic perfor	mance.		-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.				+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		-1.0	
Ũ	by less than	1% of the height of the shorter of the One building is 2 or more stories taller than the o	ther.	pounding		-1.0	
		adjacent structure and: The building is at the end of the block.		modifiers a	at -1.2)	-0.5	
S2 Building	"K" bracing o	eometry is visible.				-1.0	
C1 Building	Flat plate se	rves as the beam in the moment frame.				-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bendii nark or retrofit modifier.)	ng. <i>(Do no</i>	ot combine	with	+0.3	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls su	ich as in a	a warehous	e).	+0.3	
URM	Gable walls					-0.4	
MH	There is a su	upplemental seismic bracing system provided between the carriage and the ground.				+1.2	0
Retrofit		sive seismic retrofit is visible or known from drawings.				+1.4	M=
FINAL LEVEL		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : -0.4			(	Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance	τ Έ	′es 🔳 N	,		
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is require	d indeper	ndent of the		g's score.	
OBSERVABL		UCTURAL HAZARDS					
Location		Check "Yes" or "No")	Yes	No		Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		х			
		vy cladding or heavy veneer.		х			
	There is a he	eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		х			
		unreinforced masonry appendage over exit doors or pedestrian walkways.		х			
		gn posted on the building that indicates hazardous materials are present.		х			
	There is a ta	Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		х			
	Othersheer	ved exterior popstructural falling bazard:					

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended
 Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

□ Low or no nonstructural hazard threat to occupant life safety →No Detailed Nonstructural Evaluation required

Comments:

Interior

х

х

#### Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 A HIGH Seismicity

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	1000	Carlor Party		Line .		Ss:	0.630					S₁: _			0.270		
TA THE ALL STREET				No.	1			KNT					Date/Tir	ne:	16/2021		
		and an		ST. South				Abov					le:	Ye	ar Built:	1000	EST
				F		Tota	I Floor	Area (so	. ft.):	7 000	-		0	Co	le Year:	1963	
			/				itions:		one	Yes, \	(ear(s) B	Built:	1966, 201	4		Unknown	
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							apanoy	Indu		Office	10001000	Schoo			Governme		
								Utilit	Y	Wareho	use	Reside	ential, #	Units:			
						Soil	Type:		⊡в		C 🔳	D	E		DNK		
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	and the second	-					-								K Surf. R		
				12 00		Adja	acency:		Pc	ounding		Falling	Hazards	from Tal	er Adjacer	t Building	3
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The Assest of Linear Control of Disaster Contr	SKETCH	Luty Tata		RE, MO	DIFIE								e				
C	SKETCH E DoNot W1	Luty Tata		RE, MO	S2	RS, AI	ND FIN	S5	<b>VEL</b> <sup>7</sup>	1 SCO C2	RE, S	<i>L1</i> PC1	e PC2		RM2	URM	MH
C	SKETCH	BASIC	SCOR	RE, MO		RS, AI	ND FIN	IAL LE	VEL <sup>^</sup>	I SCO	RE, S	L1		RM1 (FD)	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE W2 Basic Score	SKETCH E DoNot W1	BASIC W1A 32	SCOR	RE, MO	S2	RS, AI	S4 (RC	S5 (URM	VEL <sup>2</sup> (MRF) 1.5	C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7		URM 1.0	МН 1.5
FEMA BUILDING TYPE W2 Basic Score Severe Vertical Irregularity, VL1	SKETCH E DoNot Know 3.6 -1.2	BASIC W1A 3.2 -1.2	SCOR W2 -1.2	RE, MO S1 (MRF) 2.1 -1.0	S2 (BR) 2.0 -1.0	RS, AI S3 (LM) 2.6 -11	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	<b>VEL</b> 2 (MRF) 1.5 -0.9	C2 (SW) 2.0 -1.0	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
FEMA BUILDING TYPE W2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1	SKETCH E DoNot Know 3.6 -1.2 -0.7	BASIC W1A -1.2 -0.7	SCOR W2 -1.2 -0.7	<b>RE, MO</b> <b>S1</b> (MRF) <b>21</b> -1.0 -0.6	<b>S2</b> (BR) -1.0 -0.6	<b>RS, Al</b> S3 (LM) <b>2.6</b> -1.1 -0.7	ND FIN S4 (RC SW) 2.0 1.0 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5	VEL 2 (MRF) 1.5 -0.9 -0.5	C2 (SW) 2.0 -1.0 -0.6	RE, S (URM INF) 1.2 -0.7 -0.4	L1 PC1 (TU) 1.6 -1.0 -0.6	PC2 1.4 -0.9 -0.5	(FD) 1.7 -0.9 -0.5	(RD) <b>1.7</b> -0.9 -0.5	<b>1.0</b> -0.7 -0.4	1.5 NA NA
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$	SKETCH E DoNot Know 3.6 -1.2 -0.7 -1.1	BASIC W1A -1.2 -0.7 -1.0	SCOR W2 -1.2 -0.7 -1.0	RE, MO S1 (MRF) 21 -1.0 -0.6 -0.8	<b>S2</b> (BR) -1.0 -0.6 -0.7	<b>RS, Al</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6	C2 (SW) 2.0 -1.0 -0.6 -0.8	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7	PC2 1.4 -0.9 -0.5 -0.6	(FD) 1.7 -0.9 -0.5 -0.7	(RD) <b>1.7</b> -0.9 -0.5 -0.7	<b>1.0</b> -0.7 -0.4 -0.4	<b>1.5</b> NA NA NA
FEMA BUILDING TYPE W2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code	SKETCH E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1	BASIC W1A 32 -1.2 -0.7 -1.0 -1.0	SCOR W2 -1.2 -0.7 -1.0 -0.9	RE, MO S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	ND FIN (RC SW) 2.0 1.0 0.6 0.7 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4	C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) 1.7 -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	<b>1.5</b> NA NA NA -0.1
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$	SKETCH E DoNot Know 3.6 -1.2 -0.7 -1.1	BASIC W1A -1.2 -0.7 -1.0	SCOR W2 -1.2 -0.7 -1.0	RE, MO S1 (MRF) 21 -1.0 -0.6 -0.8	<b>S2</b> (BR) -1.0 -0.6 -0.7	<b>RS, Al</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6	C2 (SW) 2.0 -1.0 -0.6 -0.8	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7	PC2 1.4 -0.9 -0.5 -0.6	(FD) 1.7 -0.9 -0.5 -0.7	(RD) <b>1.7</b> -0.9 -0.5 -0.7	<b>1.0</b> -0.7 -0.4 -0.4	<b>1.5</b> NA NA NA
FEMA BUILDING TYPE W2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark	SKETCH           E           DoNot         W1           -1.2         -0.7           -1.1         -1.1           -1.1         -1.1	BASIC W1A 32 -1.2 -0.7 -1.0 -1.0 1.9	SCOR W2 -1.2 -0.7 -1.0 -0.9 2.2	RE, MO S1 (MRF) 21 -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9	C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)	SKETCH E DoNot W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3	BASIC W1A -1.2 -0.7 -1.0 1.9 0.3 0.2 -0.6	SCOR W2 -1.2 -0.7 -1.0 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>RE, MO</b> <b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	ND FIN S4 (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S (URM INF) -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE           W2           Basic Score           Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark           Soil Type A or B           Soil Type E (1-3 stories)	SKETCH E DoNot W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	BASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	SCOR W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	RE, MO 51 (MRF) 21 -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>C2</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)	SKETCH           E           DoNot         W1           -1.2         -0.7           -1.1         -1.1           -0.7         -1.1           -0.1         -0.7           -1.1         -1.1           -0.3         1.1	BASIC W1A -1.2 -0.7 -1.0 1.9 0.3 0.2 -0.6	SCOR W2 -1.2 -0.7 -1.0 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>RE, MO</b> <b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	ND FIN S4 (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S (URM INF) -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE W2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Soil Type E (> 3 stories)	SKETCH           E           DoNot         W1           -1.2         -0.7           -1.1         -1.1           -0.7         -1.1           -0.1         -0.7           -1.1         -1.1           -0.3         1.1	BASIC W1A -1.2 -0.7 -1.0 1.9 0.3 0.2 -0.6	SCOR W2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.	<b>RE, MO</b> <b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE W2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, V <sub>L1</sub> Pire-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Soil Type E (> 3 stories) Minimum Score, S <sub>MIN</sub> FINAL LEVEL 1 SCORE, S <sub>L1</sub>	SKETCH           E           DoNot         W1           -1.2         -0.7           -1.1         -1.1           -1.1         -0.7           -1.1         -1.1           1.6         0.1           0.2         -0.3           1.1         1.6           SMIN:         1.0	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -0.3 0.2 -0.6 0.9	SCOR W2 -1.2 -0.7 -1.0 -0.9 0.7 -10 -0.9 0.7	S1         MO           -0.6         -0.6           -0.6         -0.6           -0.6         0.4           -0.2         -0.6           0.4         -0.2           -0.6         0.5	<b>S2</b> (BR) <b>2 0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	S5         CURM (INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         -0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF	L1 PC1 (TU) -1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMM         FINAL LEVEL 1 SCORE, SL1         EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ None	SKETCH           E           DoNot         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           1.6         0.1           0.2         -0.3           1.1         1.6           SMIN:         1.0	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -0.3 0.2 -0.6 0.9	SCOR W2 -1.2 -1.2 -1.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial	S1           (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazard	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That 1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Frigger A	S5         CURM (INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         -0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3 <b>ACT</b> Detaile	C2 (SW)           2.0           -1.0           -0.6           -0.8           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 on Requi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL1         EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes	SKETCH           E           DoNot         W1           3.6         -1.2           -0.7         -1.1           -1.1         1.6           0.1         0.2           -0.3         1.1           ≥ Smin:         1.0	BASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	SCOR W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial tered	S1         MO           21         -1.0           -0.6         -0.8           -0.6         1.4           -0.2         -0.6           0.5         0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazard Structur	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalue	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.1           -0.6         0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 -0.4 0.5	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	C2 (SW)           2.0           -1.0           -0.6           -0.8           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev pwn FEM	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 on Requi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMMN         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ None         Drawings Reviewed:       □ Yes         Soil Type Source:       □	SKETCH           E           DoNot Know         W1           3.6           -1.2           -0.7           -1.1           -1.1           1.6           0.1           0.2           -0.3           1.1           2           -1.1           1.6           0.1           0.2           -0.3           1.1           1.6           0.1           0.2           -0.3           1.1           0.1           0.2           -0.3           1.1           0.1           0.2           -0.3           1.1           0.1           0.2           -0.3           1.1           0.1           0.2           0.3           1.10	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aer	SCOR W2 -1.2 -1.2 -1.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 	SI         0       21         -1.0       -0.6         0.6       1.4         0.4       -0.2         -0.6       0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazarr Structur ding pot ff, if knov	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalu ential (ur wn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.0         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State         Non-State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev pwn FEN less tha	PC1 (TU) (TU) -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED raluatio MA build	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 on Requi ting type ff	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMM         FINAL LEVEL 1 SCORE, SL1         EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:	SKETCH           E           DoNot         W1           3.6         -1.2           -0.7         -1.1           -1.1         1.6           0.1         0.2           -0.3         1.1           ≥ Smin:         1.0	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aer	SCOR W2 -1.2 -1.2 -1.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 	SI           S1           (MRF)           21           -1.0           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         (BR)           2.0         -1.0           -0.6         1.4           0.6         -0.7           -0.6         1.4           0.6         0.5	S3         (LM)           2.6         -1.1           -0.7         -0.9           -0.8         1.1           0.1         0.2           NA         0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.0         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State         Non-State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.4           1.9           0.4           0.0           -0.5           0.3	C2         (SW)           2.0         -1.0           -0.6         -0.7           0.5         0.0           -0.7         0.3	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev by FEN less tha hazards	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED raluatio MA build n cut-o preser	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 on Requi ting type ff tt	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMMN         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ None         Drawings Reviewed:       □ Yes         Soil Type Source:       □	SKETCH           E           DoNot Know         W1           3.6           -1.2           -0.7           -1.1           -1.1           1.6           0.1           0.2           -0.3           1.1           2           -1.1           1.6           0.1           0.2           -0.3           1.1           1.6           0.1           0.2           -0.3           1.1           0.1           0.2           -0.3           1.1           0.1           0.2           -0.3           1.1           0.1           0.2           -0.3           1.1           0.1           0.2           0.3           1.10	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aer	SCOR W2 -1.2 -1.2 -1.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 	SI           (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           0.4           -0.2           -0.6           0.5	S2 (BR)           2.0           -1.0           -0.6           -0.7           -0.6           -0.7           0.6           -0.7           0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.7           -0.6           0.5           R           HAZ           e Hazard           structure           rig hazard           ing	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalu vential (ur wn) ds from ta	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         -0.5	S5         CURM           INF)         1.7           -0.8         -0.5           -0.6         -0.2           NA         0.5           -0.4         -0.5           -0.4         0.5           cent         0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.4         1.9         0.4         0.0         -0.5         0.3	C2         (SW)           2.0         -1.0           -0.6         -0.7           2.1         0.5           0.0         -0.7           0.3         -0.7	RE, S (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bown FEM less that hazards tructura	PC1           PC1           (TU)           1.6           -1.0           -0.7           -0.7           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 on Requi ting type ff tt tation Reference of the second	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.1 -0.5 0.3 rred? or other	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMM         FINAL LEVEL 1 SCORE, SL1         EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:	SKETCH           E           DoNot         W1           -1.2         -0.7           -1.1         -1.1           -1.1         -0.7           -1.1         -1.1           -1.2         -0.7           -0.3         1.1           -0.3         1.1           -0.5         Visible           No         Assumed           DOGAM         DOGAM	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0	SCOR W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 -1.0 -0.9 -1.2 -0.7 -1.0 -0.9 -0.7 -1.0 -0.7 -1.0 -0.7 -1.0 -0.7	S1           (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazaru Structur dding pot ff, if knov ng hazard ing ogic haz	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalu ential (ur wn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.7	Image: Non-State State         State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.6         -0.2           -0.4         -0.5         -0.4           -0.5         -0.4         -0.5           -0.4         -0.5         -0.4           -0.5         -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.3	RE, S (URM (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev by m FEM less tha hazards tructural	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.6           0.3           NA           0.2   RED ratuation A building of the second se	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 0.2 on Requi ting type ff attion Res s identified	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ired? or other ecomme ed that sh	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:	SKETCH           E           DoNot         W1           -1.2         -0.7           -1.1         -1.1           -0.7         -1.1           -1.1         -1.1           0.2         -0.3           -0.3         1.1           ≥ SMIN:         1.0           All Sidee         No           Assured         DOGAM	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0	SCOR 9 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial iered	SI         MO           21         -1.0           -0.6         -0.8           -0.6         1.4           -0.2         -0.6           0.4         -0.2           -0.6         0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazaru Structur dding pot ff, if knov ng hazard ing ogic haz	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           MA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.7	Image: Non-State State         State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.6         -0.2           -0.4         -0.5         -0.4           -0.5         -0.4         -0.5           -0.4         -0.5         -0.4           -0.5         -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.9         0.4         0.0         -0.5         0.4         0.7         Detaild         Yee         ■ Not         Detaild         Yee         ■ Not	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S (URM (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIE tural Ev bwn FEM less tha hazards tructural ructural h	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.1 -0.4 0.2 on Requi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 (red? or other ecomme ed that shat may rea	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMM         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       □ Partial         Interior:       □ None         Drawings Reviewed:       □ Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       □         LEVEL 2 SCREENING F	SKETCH           E           DoNot         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           0.2         -0.3           2.11         -1.1           1.6         0.1           0.2         -0.3           1.1         -0.5           SMIN:         1.0	BASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aer Ent	SCOR W2 -1.2 -0.7 -1.0 -0.9 0.7 tial lered	SI         MO           21         -1.0           -0.6         -0.8           -0.6         1.4           -0.2         -0.6           0.4         -0.2           -0.6         0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>e Hazar</b> <b>Structur</b> ding pot ff, if know g hazar ing ogic haz ficant da	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           MA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.7	Image: Non-State State         State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.6         -0.2           -0.4         -0.5         -0.4           -0.5         -0.4         -0.5           -0.4         -0.5         -0.4           -0.5         -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.3	RE, S           C3           (URM)           INF)           1.2           -0.7           -0.4           -0.5           -0.1           NA           0.3           -0.2           -0.3           0.3           -0.2           -0.3           0.3           exponential base           base           cural Ev           wown FEN           less tha           hazards           tructural           uctural hazards	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.2             RED           aluatio           Ab build           0.2             RED           aluatio           I Evalu           hazards           is not r	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 0 n Requi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 (red? or other ecomme ed that sh at may rec y	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, VL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       Contact Person:         LEVEL 2 SCREENING F         Im Yes, Final Level 2 Score, SL2         Nonstructural hazards?       None	SKETCH           E           DoNot Know         W1           3.6           -1.2           -0.7           -1.1           -1.1           -1.1           -1.1           -1.1           -1.1           -0.7           -1.1           -1.1           -0.3           1.1           -0.3           1.1           SMIN:           1.0           Persenter           -1.1           (res	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aere Ent 	SCOR W2 -1.2 -1.2 -1.2 0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 -1.0 -0.9 -0.7 -1.0 -0.9 -0.7 -1.0 -0.9 -0.7 -1.0 -0.9 -0.7 -1.0 -0.9 -0.7 -0.9 -0.7 -0.9 -0.7 -0.9 -0.7 -0.9 -0.7 -0.9 -0.7 -0.9 -0.7 -0.9 -0.7 -0	SI           31           (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	S2         (BR)           2.0         -1.0           -0.6         -0.7           -0.6         1.4           0.6         -0.7           -0.6         1.4           0.6         -0.7           etast         -0.6           0.5         -0.4           -0.6         0.5           etast         -0.6           off, if known         -0.5           etast         -0.5	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.6         0.5	S5         URM           UNF)         1.7           -0.8         -0.5           -0.6         -0.2           NA         0.5           -0.4         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.64           -0.9           -0.5           -0.64           0.0           -0.5           0.4           0.0           -0.5           0.4           0.0           -0.5           0.3	C2 (SW)           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S           C3           (URM)           INF)           1.2           -0.7           -0.4           -0.5           -0.1           NA           0.3           -0.2           -0.3           0.3           EQUIF           tural Evo           barn FEN           less tha           hazards           tructural           uctural h           aluation	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2   RED aluation taluation th building the second sec	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 0 n Requi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 (red? or other ecomme ed that sh at may rec y ified	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building mded? (ct nould be e quire mitig	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, VL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, ShmN         FINAL LEVEL 1 SCORE, SL11         EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       Contact Person:         LEVEL 2 SCREENING F       Yes, Final Level 2 Score, SL2         Nonstructural hazards?       N         Where inform	SKETCH           E           DoNot         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           0.2         -0.3           2.11         -1.1           1.6         0.1           0.2         -0.3           1.1         -0.5           SMIN:         1.0	BASIC W1A -1.2 -0.7 -1.0 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 -1.0 Ent -1.2 -1.2 -0.7 -1.0 -0.6 -0.9 -1.0 -0.6 -0.9 -1.0 -0.6 -0.9 -0.9 -0.9 -0.6 -0.9	SCOR W2 -1.2 -1.2 -1.2 -1.2 -1.2 0.5 0.1 -0.9 0.7 	SI           31           (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	S2         (BR)           2.0         -1.0           -0.6         1.4           0.6         -0.7           -0.6         1.4           0.6         -0.5	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC           534         (RC           584         (RC           584         (RC           584         (RC           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.0           -0.0         -0.5           Trigger A         -0.0           aller adja         -0.0           oil Type         -0.0           terioratio         -0.0	S5         URM           UNF)         1.7           -0.8         -0.5           -0.6         -0.2           NA         0.5           -0.4         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.4           -0.5         -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3           Detaild           Yee           D No           Detaild           Yee           No           Detaild           Yee           No           deg           No           deg           Mated o	C2         (SW)           -1.0         -0.6           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S           C3           (URM)           INF)           1.2           -0.7           -0.4           -0.5           -0.1           NA           0.3           -0.2           -0.3           0.3           EQUIF           tural Evo           bwn FEM           less tha           hazards           tructural h           aluation           astructural h           ble data	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2   RED aluation A building the second se	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 0 n Requi	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 (red? or other ecomme ed that sh at may rea y ified Do Not J	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 building mded? (ct nould be e quire mitig	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

#### **Rapid Visual Screening of Buildings for Potential Seismic Hazards**

FEMA P-154 Data Collection Form

#### Level 2 (Optional) **HIGH Seismicity**

Α Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Russell Elementary School - Main	Final Level 1 Score:	$S_{L1} = 1.0$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -1.0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 2.0$	

Topic		RS TO ADD TO ADJUSTED BASELINE SCORE If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other			1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building to the		er		-0.3	
inogularity, viz	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.				-0.6	
	and/or	W1 building onppre wait. An unbraced onppre wait is visible in the order space. W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment fra	ame	0.0	
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1				-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov					
	maximum)	length of the building.	0. 4040			-1.2	
	1	Non-W1 building: Length of lateral system at any story is less than 50% of that at story at	ove or h	eight of ar	nv		
		story is more than 2.0 times the height of the story above.		•		-0.9	
	1	Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story at	oove or he	eight		
		of any story is between 1.3 and 2.0 times the height of the story above.				-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	below ca	ausing the	e		
	]	diaphragm to cantilever at the offset.				-1.0	
	]	Vertical elements of the lateral system at upper stories are inboard of those at lower storie				-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the elements	ments.			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t	the latera	l system h	have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.				0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	ne depth	of the spa	andrel,	<u> </u>	
		or there are infill walls or adjacent floors that shorten the column.				-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.				-0.5	10
	Other	There is another observable severe vertical irregularity that obviously affects the building's					$V_{L2} = \frac{-1.0}{1.0}$
Diam	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se				-0.5	(Cap at -1.2)
Plan Imaguilarity D		egularity: Lateral system does not appear relatively well distributed in plan in either or both d	irections.	(Do not			
Irregularity, PL2		V1A open front irregularity listed above.)	hagapalt	a agab at		07	
		system: There are one or more major vertical elements of the lateral system that are not ort rner: Both projections from an interior corner exceed 25% of the overall plan dimension in t			iner.	$\overline{\bigcirc}^{0.4}$	
		pening: There is an opening in the diaphragm with a width over 50% of the total diaphragm				0.2	
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.	wiutinat	linal level.		-0.2	$P_{L2} = -1.1$
		arity: There is another observable plan irregularity that obviously affects the building's seism	ic perfor	mance		-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.	iic periori	nance.		+0.3	(cup ut -1.1)
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total			
1 ounding		1% of the height of the shorter of the One building is 2 or more stories taller than the other of the field of the shorter of the One building is 2 or more stories taller than the other of the other other of the other oth		pounding		1.0	
		adjacent structure and: The building is at the end of the block.		modifiers	·	-0.5	
S2 Building		eometry is visible.	×		ut 112)	-1.0	
C1 Building		ves as the beam in the moment frame.				-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	a. (Do no	t combine	with	+0.3	
		ark or retrofit modifier.)	9. (= =	• • • • • • • • • • • • • • • • • • • •			
PC1/RM1 Bldg	The building	has closely spaced, full height interior walls (rather than an interior space with few walls suc	ch as in a	warehous	se).	+0.3	
URM	Gable walls				ĺ.	-0.4	
MH		pplemental seismic bracing system provided between the carriage and the ground.				+1.2	-1.0
Retrofit		ive seismic retrofit is visible or known from drawings.				+1.4	M=
FINAL LEVEL		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$			(T	ransfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance:		es 🔳			/
		the comment box below and indicate on the Level 1 form that detailed evaluation is required				's score.	
					0		
		UCTURAL HAZARDS	T	1 1			
Location	· · · · · ·	Check "Yes" or "No")	Yes	No		Com	nent
Exterior		Inbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	+	×			
		vy cladding or heavy veneer.	×	┥──┤		Brick V	eneer
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	Х				
		Inreinforced masonry appendage over exit doors or pedestrian walkways.	+	×			
		gn posted on the building that indicates hazardous materials are present.	+	×			
		ller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.	+	×			
	I Uther obcory	ved exterior nonstructural talling hazard.	1	X			

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Detential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended

■ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -No Detailed Nonstructural Evaluation required

Comments:

Interior

х

х

#### Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 B HIGH Seismicity

							Add	ress: _	700 NE 127th	Ave.								
															Zip: <sub>9723</sub>	0		
													4 Additic	n				
Alter and the second	P. Deste	-	d-	-	-		Use	:										
h h	-					1	Lati	tude: 4	5.541369499	199					-122,5313001			
	N		-				Ss:	0.630										
				10			Scr	ener(s)	KNT					Date/Tim	ne: <u>8/10</u>	5/2021		
AMB AN TOMMAN						LThe	No.	Stories:	Abov	e Grade	e:	Belo	w Grad	le: o	Yea	r Built:	2014	EST
Holes of canal a constant			A second			*	Tota	I Floor	Area (so	. ft.):	5,200	-		<u></u>	Cod	e Year:	2010 OSSC	
							Add	itions:	N	one [	Yes, Y	ear(s) B	Built:		_			
							Occ	upancy	: Ass	embly	Comme	rcial	Emer.	Services		istoric	Shelt	ler
										strial	Office		Schoo	1	□ 3	iovernmer	nt	
							1		Utili	4	Wareho	use	Reside	ential, #L	Jnits:			
State of the state						1.1	Soil	Type:		□в					<u> </u>	NK		
	-	1	10		1 . m				Hard Rock	Avg Rock	Den		tiff	Soft Soil	Poor 17 Soil	DNK, ass	ume Type	D.
		1	15.5				-								201			
	The second							-									upt.: Yes/	
					107-102	A ST	100	acency:	warme name of the		ounding		-	Hazards	from Tale	r Adjacen	t Building	
Real Real	in .				-		Irre	gularitie	s:		ertical (ty lan (type)		rity)	2				
					1		Exte	erior Fal	ling	ΠU	nbraced	Chimne	ys	🔳 He	eavy Clad	ding or H	eavy Ver	neer
A REAL MARKEN	-			-	-			ards:			arapets				opendage		•	
		10.	-	-							ther:							
Base of the Party of	2011			E			CO	MMENT	S:									
Better Hammain	9	1.1	1.1	1			1											
NEPONANT A TY	1	0		1	1.00													
	× 1	Complement Restored Lemen	-	1														
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attel Montesseri		60.00			and the		Contra L											
Contraction but Desires D		NE DENSOR	0	-	Drazee (4)	-	Braine											
		Sec.																
C		Cin B	54	29, 9	12.17.11.1													
	SKE	TCH						Addition	al sketch	es or cor	mments c	n separa	ate pac	e				
		В	ASIC	sco	RE, MO	DIFIE												
FEMA BUILDING TYPE	DoNot	W1	W1A	W2		S2	S3	S4	S5	C1	C2	C3	PC1		RM1	RM2	URM	MH
W2	Know		100000000		(MRF)	(BR)	(LM)	(RC SW)	(URM INF)	(MRF)	(SW)	(URM INF)	(TU)		(FD)	(RD)		
Basic Score		3.6	3.2	2.9	21	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, VL1		-1.2	-1.2	-1.2	-1.0	-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, VL1		-0.7	-0.7	-0.7		-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, PL1		-1.1	-1.0	-1.0		-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code Post-Benchmark		-1.1 1.6	-1.0 1.9	0.9		-0.6 1.4	-0.8	-0.6 1.9	-0.2 NA	-0.4 1.9	-0.7	-0.1 NA	-0.5 2.0	0.3	-0.5 2.1	-0.5	0.0	-0.1
Soil Type A or B		0.1	0.3	0.5	-	0.6	1.1 0.1	0.6	0.5	0.4	2.1 0.5	0.3	0.6	0.4	0.5	2.1 0.5	NA 0.3	1.2 0.3
Soil Type E (1-3 stories)		0.2	0.3	0.1		-0.4	0.2	0.1	-0.4	0.0	0.0	-0.2	-0.3	0.1	-0.1	-0.1	-0.2	0.3
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9		-0.6	NA	0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S <sub>MIN</sub>		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL	≥ S <sub>MIN</sub> :	5.1																
EXTENT OF REVIEW					OTHE	R HAZ	ARDS			ACT	ION R	EQUIF	RED					
Exterior: Dartia		Il Sides			Are Ther				۱ I	Detail	ed Struc	tural Ev	aluatio	on Requi	red?			
Interior:  None Drawings Reviewed:  Yes		/isible No	🔳 Ent	ered	Detailed										or other b	uilding		
Soil Type Source:		NO isumed					ential (ur	less SL2	>		es, score							
Geologic Hazards Source:		DOGAM	1			ff, if kno o hazar	wn) ds from t	aller adia	cent	I Y	es, other o	nazaros	preser	IL				
Contact Person:					build	ng						tructure	l Evalı	ation Ro	commen	ded? (ch	eck onel	
					🗌 Geol	ogic haz	ards or S	oil Type	F						d that she		,	
LEVEL 2 SCREENING		ORME					mage/de	terioratio	n to								valuated ation, but	a
Yes, Final Level 2 Score, SL	5.1			-	the s	ructura	system											
Nonstructural hazards?										de	etailed ev	aluation	is not r	necessary	/			
	Yes										etailed ev o, no non							
Where info	Yes	annot b	N	lo	eener shal	l note ti	he follow	ring: ES	ST = Esti		o, no non	structura	al haza	rds identi	fied [			
Legend: MRF = M	Yes		e verifie	lo <b>d, scr</b> o RC = Re	<b>eener sha</b> l einforced co hear wa <b>ll</b>			•	Unreinfo	□ N mated o	o, no non o <b>r unrelia</b>	structura ble data MH	al haza a <u>OR</u>	rds identi DNK = 1 factured H	fied [ Do Not K ousing F	now D = Flexib	le diaphrag	

#### **Rapid Visual Screening of Buildings for Potential Seismic Hazards**

FEMA P-154 Data Collection Form

#### Level 2 (Optional) HIGH Seismicity

В Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Russell Elementary School - 2014 Addition	Final Level 1 Score:	$S_{L1} = 5.1$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 5.1$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE						
Topic		f statement is true, circle the "Yes" modifier; otherwise cross out the modifie	er.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of th	e building to the	other.			-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side			er.		-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl sp					-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage	opening without a	a steel m	oment fra	ime,		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floo					-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as						
	maximum)	length of the building.					-1.2	
	1	Non-W1 building: Length of lateral system at any story is less than 50% of	of that at story ab	ove or he	eight of a	ny		
	]	story is more than 2.0 times the height of the story above.	-		-	-	-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% a	nd 75% of that a	t story ab	ove or he	eight		
		of any story is between 1.3 and 2.0 times the height of the story above.					-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of the	nose at the story	below ca	using the	)		
	J	diaphragm to cantilever at the offset.					-1.0	
	]	Vertical elements of the lateral system at upper stories are inboard of thos	se at lower storie	s.			-0.5	
		There is an in-plane offset of the lateral elements that is greater than the					-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a	a column line in tl	he lateral	system h	nave		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that	evel.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less the	nan one half of th	e depth	of the spa	indrel,		
		or there are infill walls or adjacent floors that shorten the column.					-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.					-0.5	0
	Other	There is another observable severe vertical irregularity that obviously affe					-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect	the building's sei	smic per	formance		-0.5	(Cap at -1.2)
Plan	Torsional irre	gularity: Lateral system does not appear relatively well distributed in plan in	either or both di	rections.	(Do not			
Irregularity, PL2		V1A open front irregularity listed above.)					<b>-</b> 0.7	
	Non-parallel	system: There are one or more major vertical elements of the lateral system	n that are not orth	nogonal t	o each ot	her.	-0.4	
		rner: Both projections from an interior corner exceed 25% of the overall pla					-0.4	
	Diaphragm o	pening: There is an opening in the diaphragm with a width over 50% of the	total diaphragm	width at	that level		-0.2	0
	C1, C2 build	ng out-of-plane offset: The exterior beams do not align with the columns in	plan.				-0.4	$P_{L2} = 0$
	Other irregu	arity: There is another observable plan irregularity that obviously affects the	building's seismi	ic perforr	nance.		-0.7	(Cap at -1.1)
Redundancy	The building	has at least two bays of lateral elements on each side of the building in eac	h direction.				+0.3	
Pounding	Building is se	parated from an adjacent structure The floors do not align vertically w	ithin 2 feet.		(Cap total		-1.0	
-	by less than	1% of the height of the shorter of the One building is 2 or more stories ta	aller than the oth	er :	pounding		-1.0	
	building and	adjacent structure and: The building is at the end of the bl	ock.		modifiers	at -1.2)	-0.5	
S2 Building	"K" bracing g	eometry is visible.					-1.0	
C1 Building	Flat plate se	ves as the beam in the moment frame.					-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cro	ss-grain bending	I. (Do not	combine	with	+0.3	
-		ark or retrofit modifier.)		-				
PC1/RM1 Bldg	The building	has closely spaced, full height interior walls (rather than an interior space w	ith few walls suc	h as in a	warehous	se).	+0.3	
URM	Gable walls	are present.					-0.4	
MH	There is a su	pplemental seismic bracing system provided between the carriage and the	ground.				+1.2	0
Retrofit		ive seismic retrofit is visible or known from drawings.					+1.4	M=
FINAL LEVEL	2 SCORE.	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 5.1				(	Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seism	nic performance.	□ Y¢	s 🗖			
		the comment box below and indicate on the Level 1 form that detailed evalu					g's score	
Location		JCTURAL HAZARDS Check "Yes" or "No")		Yes	No		Com	ment
Exterior		inbraced unreinforced masonry parapet or unbraced unreinforced masonry	chimney	103	×		00111	inent
		vy cladding or heavy veneer.	or anni no ya	x			Brick	reneer
		avy canopy over exit doors or pedestrian walkways that appears inadequate	elv supported	<u> </u>	x		DITCK	
		inreinforced masonry appendage over exit doors or pedestrian walkways.	ory supported.		x			
		an posted on the building that indicates hazardous materials are present.			x			
		ler adjacent building with an unanchored URM wall or unbraced URM parag	net or chimpov		x			
1		iel aujacent building with an unancholed ORM wall of unbraced ORM para,	or or or infinitely.		^			

Other observed interior nonstructural falling hazard:

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Detential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended □ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation required

Comments:

Interior

х

х

#### Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

#### Level 1 A HIGH Seismicity

				1		Add	ress: _	1400 NE Sac	umento St.				_				
		1				Othe	er Ident	Portland, C	<u> </u>				Z	Zip: <sub>9722</sub>	0		
		1		1.25		100		-		_		0.1.1	Building				
	4	,		and a	1	Use		ine. s	cramento	Elementar	/ School -	Original	Building				
The second se	A	4	1		T			5 539014				Longitu	ude:	122,545169			
		-	and the second	71	1							S₁: _			0.272		
		tin T.See	And a										Date/Time		6/2021		
			- Ale	- Cha								w Grad	e: o	Yea	r Built:	1960	EST
	-					Tota	I Floor	Area (so	. ft.):	43,500	_			Code	e Year:	Unknown	
			-	- And		Add	itions:		one 🕻	Yes, Y	ear(s) B	uilt:	2014		-		
	and the second s					Occ	upancy		embly istrial t/	Commer Office Warehou		School	Services ntial, #U	□ 3	istoric overnmer	Shelt nt	ler
NE Sacramento St NE Sacramento St		NE Sacram	interest.	C.	Sacramento	1	Туре:	Hard Rock	□ <b>B</b> Avg Rock	Dens Soil	e St	]D [	Soft P	F D	NK DNK, ass	ume Type	D.
the state of the state		-		P			logic Ha	azards:	Liquefac	tion: Yes	/No/DN	K Land	slide: Yes	No/DNK	Surf. R	upt.: Yes/	No/DNK
Sacard Fernand		-	No.			Adja	acency:		P	ounding		Falling H	Hazards fr	rom Talle	r Adjacen	t Building	1
		No of	5			Irreg	gularitie	s:		ertical (typ an (type)		ity) ntrant Cor	ners				
A	. A		1	and the second second	•		erior Fal ards:	ling	P	nbraced ( arapets ther:	Chimney	'S		avy Clad pendage	ding or H s	eavy Ver	neer
		-		and the second													
SK	ETCH		-							nments o			e				
SK	В			RE, MO	_		ND FIN	IAL LE	VEL	1 SCO	RE, S	L1					
FEMA BUILDING TYPE DoNot C2 Know		ASIC S	SCOF W2	RE, MO	DIFIE S2 (BR)								PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE DoNot C2 Know Basic Score	8/ W1 3.6	W1A	W2	\$1 (MRF) 2.1	S2 (BR) 2.0	RS, AN S3 (LM) 2.6	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	C1 (MRF) 1.5	1 SCO (SW) (2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE DoNot C2 DoNot Basic Score Severe Vertical Irregularity, VL1	8/ W1 3.6 -1.2	W1A 3.2 -1.2	W2 2.9 -1.2	<b>S1</b> (MRF) <b>2.1</b> -1.0	<b>S2</b> (BR) <b>2.0</b> -1.0	RS, AN S3 (LM) 2.6 -1.1	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	<b>VEL</b> (MRF) 1.5 -0.9	1 SCO (SW) -1.0	RE, S/ C3 (URM INF) 1.2 -0.7	PC1 (TU) 1.6 -1.0	PC2 1.4 -0.9	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	<b>1.5</b> NA
FEMA BUILDING TYPE DoNot C2 Know Basic Score	8/ W1 3.6	W1A	W2	\$1 (MRF) 2.1	S2 (BR) 2.0	RS, AN S3 (LM) 2.6	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	C1 (MRF) 1.5	1 SCO (SW) (2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6	<b>RS, AN</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4	<b>C2</b> (SW) <b>20</b> 10 0.6 (SW) 0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	<b>1.5</b> NA NA NA -0.1
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Post-Benchmark	<b>B</b> / <b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 -1.1 1.6	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9	W2 -1.2 -0.7 -1.0 -0.9 2.2	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, AN</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	VEL (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9	<b>C2</b> (SW) -1.0 -0.6 (0.7) 2.1	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6	<b>RS, AN</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4	<b>C2</b> (SW) <b>20</b> 10 0.6 (SW) 0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	<b>1.5</b> NA NA NA -0.1
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code       Post-Benchmark       Soil Type A or B       Soil Type E (1-3 stories)       Soil Type E (> 3 stories)	B/ 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6	RS, AN 53 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	<b>S4</b> (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>C2</b> (SW) -1.0 -0.6 (0.8) (0.7) 2.1 0.5 0.0 -0.7	RE, S/ (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         DoNot           C2         Know           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (1-3 stories)	B/ 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	W2 2.9 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>C2</b> (SW) -1.0 -0.6 -0.6 -0.7 2.1 0.5 0.0	RE, S/ (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE         DoNot           C2         Know           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)           Minimum Score, SMIN         Minimum Score, SMIN	B/ 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	S2 (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AN 3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	<b>C2</b> (SW) -1.0 -0.6 (0.8) (0.7) 2.1 0.5 0.0 -0.7	RE, S, C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	PC1 (TU) -1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMMN         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 Visible No Assumed	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>B Hazaro</b> <b>Structur</b> ding poti ff, if knov	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS S That T ral Evalue ential (un wn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State         Non-State           Non-State         Non-State           Non-State         Non-State           NA         0.5           0.4         0.5	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCOI C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, unkno se, score es, other I	RE, S, C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 COMPANIES	L1 PC1 (TV) 1.6 -1.0 -0.6 -0.7 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildid	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type o f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:	B/ 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : <b>0.5</b> Visible No	W1A       3.2       -1.2       -0.7       -1.0       1.9       0.3       0.2       -0.6       0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           1.4           0.2           -0.6           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>G HAZ</b> <b>R HAZ</b>	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalue ential (un	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State         Non-State           Non-State         Non-State           Non-State         Non-State           NA         0.5           0.4         0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.64         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) 2.0 -1.0 -0.6 0.3 0.7 2.1 0.5 0.0 -0.7 0.3 ION RE ed Struct es, unkno es, score es, other lo	RE, S, C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 CQUIF cural Eva wn FEM less that hazards	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of t	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMM       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:         Orawings Reviewed:       Yes       Soil Type Source:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 Visible No Assumed	W1A       3.2       -1.2       -0.7       -1.0       1.9       0.3       0.2       -0.6       0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b>	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS S That T ral Evalue ential (un wn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	S5           (URM)           INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) 2.0 -1.0 -0.6 0.0 0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, score es, other Io co co co co co co co co co c	RE, S, C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 CUR CUR CUR CUR CUR CUR CUR CUR	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildidation IA buildidati	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of t ation Rec	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 All Sides Visible No Assumed DOGAMI	<ul> <li>₩1A</li> <li>3.2</li> <li>-1.2</li> <li>-0.7</li> <li>-1.0</li> <li>1.9</li> <li>0.3</li> <li>0.2</li> <li>-0.6</li> <li>0.9</li> </ul>	W2 -1.2 -0.7 -1.0 0.5 0.1 -0.9 0.7 0.7 0.7	S1 (MRF)           21           -1.0           -0.6           1.4           0.4           -0.6           1.4           0.4           -0.5           OTHEF           Are There Detailed S           Poun cut-oi           Fallin buildi           Geoldo           Signifi	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> <b>Structur</b> ding pot ff, if knov g hazaron g hazaron gg hazaron	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalue ential (un wn) ds from ta ards or S mage/de	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.7	Image: Non-State         State           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         0.5           -0.4         0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.9         0.4         0.0         0.5         0.3	1 SCOI C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, unkno ss, score es, other I o b ss, nonstru- tailed eva	RE, S, C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF cural Eva wn FEM less that hazards ructural hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation A buildit aluation I Evalua I Evalua I Evalua I Evalua I Evalua I I I Evalua I I I Evalua I Evalu	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 m Require ing type of t ation Rec exist that	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commen d that sho may requ	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch build be ev	1.0 -0.7 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Donot Know         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMM       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:         Drawings Reviewed:       Yes       Soil Type Source:         Geologic Hazards Source:       Contact Person:       LEVEL 2 SCREENING PERF         Image: Yes, Final Level 2 Score, $S_{L2}$ -1.4	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 Visible No Assumed DOQAMI	W1A         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 all erred	S1 (MRF)           21           -1.0           -0.6           1.4           0.4           -0.2           -0.6           0.5   OTHEF Are There Detailed 3 Poun cut-of Fallin buildi Geok Signit the st	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>C HAZ</b> <b>C</b>	RS, AN           S3 (LM)           2.6           -1.1           -0.7           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC           534         (RC           584         (RC           589         -0.7           -0.6         -0.7           -0.6         0.6           -0.7         -0.6           0.6         -0.7           -0.6         0.5	Image: Non-State         State           State         State           (URM)         INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	I         SCOI           C2         (SW)           -1.0         -0.6           -0.8         -0.7           -0.7         0.3	RE, S, C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 C2 -0.3 0.3 C2 -0.3 0.3 C2 -0.3 0.3 C2 -0.3 0.3 C2 -0.5 C2 -0.	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation RED aluation A buildin n cut-of present I Evalua mazards of is not not	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of t ation Rec exist that ecessary ds identified	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commen d that sho may required	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch puld be ev uire mitig.	1.0 -0.7 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

## Level 2 (Optional) A HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Sacramento Elementary School	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider S <sub>MIN</sub> )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertica	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	ne other.		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building		er.	-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	t a steel m	oment fram		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use				
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) c				
	maximum)	length of the building.			-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story	above or h	eight of any		
		story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that	at story al	oove or heig	ht	
		of any story is between 1.3 and 2.0 times the height of the story above.		-	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the sto	ry below ca	ausing the		
		diaphragm to cantilever at the offset.	-	-	-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower stor	ies.		-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the el			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line ir	the latera	l system ha		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of	the depth	of the spand		
		or there are infill walls or adjacent floors that shorten the column.			-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	1.0
	Other	There is another observable severe vertical irregularity that obviously affects the building			ie (10)	V <sub>L2</sub> = <u>-1.0</u>
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's s			-0.5	(Cap at -1.2)
Plan	Torsional irre	egularity: Lateral system does not appear relatively well distributed in plan in either or both	directions.	(Do not		
Irregularity, PL2		V1A open front irregularity listed above.)			$\bigcirc \bigcirc$	
		system: There are one or more major vertical elements of the lateral system that are not o				
	Reentrant co	rner: Both projections from an interior corner exceed 25% of the overall plan dimension in	that direc	tion.	$\bigcirc 4$	
	Diaphragm o	pening: There is an opening in the diaphragm with a width over 50% of the total diaphrag	m width at	that level.	-0.2	4 4
	C1, C2 build	ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = \frac{-1.1}{2}$
	Other irregul	arity: There is another observable plan irregularity that obviously affects the building's seis	mic perfori	mance.	-0.7	(Cap at -1.1)
Redundancy	The building	has at least two bays of lateral elements on each side of the building in each direction.			+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total	$\bigcirc$	
		1% of the height of the shorter of the One building is 2 or more stories taller than the c	ther	pounding	-1.0	
		adjacent structure and: The building is at the end of the block.		modifiers at		
S2 Building	"K" bracing g	eometry is visible.			-1.0	
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bendi	ng. <i>(Do no</i>	t combine w	vith +0.3	
		ark or retrofit modifier.)				
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls su	uch as in a	warehouse		
URM	Gable walls a				-0.4	
MH		pplemental seismic bracing system provided between the carriage and the ground.			+1.2	M=
Retrofit		ive seismic retrofit is visible or known from drawings.			+1.4	M=
FINAL LEVEL	2 SCORE,	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : -1.8			(Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performanc	e: 🗌 Y	es 🔳 No	0	
		the comment box below and indicate on the Level 1 form that detailed evaluation is require				
			Vaa	Ne	<b>^</b>	mont
Location		Check "Yes" or "No")	Yes	No	Com	nent
Exterior		Inbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		×		
		vy cladding or heavy veneer.	_	×		
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x		
		Inreinforced masonry appendage over exit doors or pedestrian walkways.	-	x		
		gn posted on the building that indicates hazardous materials are present.	_	x		
		ller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney		х		

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Detential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended ■ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -No Detailed Nonstructural Evaluation required

Comments:

Interior

х

FEMA P-154 Data Collection Form

# Level 1 B HIGH Seismicity

						Add	Iress:	1400 NE Sad	mento St.								
									9 <mark>R</mark>				Z	Zip: <sub>97220</sub>	)		
111-1							er Ident		_								
	1		-	-	-			me: s	cramento	Elementa	y School	- 2014 add	ditions				
SAC R	AMENTO	Str.					·										
The second second		1		and Bloom									ıde:				
													ate/Time		0.272		
		and the second								au							
		-				No.	Stories	: Abov	/e Grade	e: _1	Belo	w Grade	9: <u>o</u>	- Year	r Built:	2014	EST
		E PALS				Tota	al Floor litions:	Area (se	c. ft.):	6,500 Yes, Y	(aar(a) F	a alla a		_ Code	e Year:	2010	
		Weithing Weithing	R.M.										Sectors				
						Occ	upancy		embly ustrial it/	Comme Office Wareho		School	Services ntial, #U	and the second second	overnmer	Shelt Shelt	ter
NESicrimento St. NESic	camento St	NE Sacra	mentuSt	C. NI	Sacrament	-	Туре:	Hard Rock	Avg Rock	Den So	se S	tiff S	Soft P		NK DNK, ass	ume Type	D.
a sector and the		5 10		THE REAL			logic H	azards:	Liquefa	ction: Yes	s/No/DN	K Lands	slide: Yes	No/DNK	Surf. Ru	upt.: Yes/	No/DNK
Site and Sit	4					Adj	acency:		D P	ounding		Falling H	lazards fr	rom Talbr	Adjacen	t Building	1
	-	-					qularitie	s:		ertical (ty lan (type)		rity)					
A A	1.1	<b>v</b> ier:		and the second se	•	Ext	erior Fal ards:	lling		nbraced arapets other:		ys		avy Clado pendages		eavy Ver	neer
	SKETCH						Addition	al skotch	es or co	nments c		ate page					
	SALTO		800	RE, MO	DIEIE								,				
FEMA BUILDING TYPE	DoNot W		W2	S1	S2	S3	S4	S5		C2	C3	L1 PC1	PC2	RM1	RM2	URM	МН
W2	Know	1 110	1	(MRF)	(BR)	(LM)	(RC SW)	(URM	(MRF)	(SW)	(URM INF)	(TU)		(FD)	(RD)	orum	
Basic Score	3.6	3.2	29	21	2.0	2.6	2.0	INF)	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, $V_{L1}$	-1.:		-1.2		-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, VL1	-0.1		-0.7	-0.6 -0.8	-0.6 -0.7	-0.7 -0.9	-0.6 -0.7	-0.5 -0.6	-0.5 -0.6	-0.6	0.4 0.5	-0.6 -0.7	-0.5	-0.5 -0.7	-0.5 -0.7	-0.4 -0.4	NA
Plan Irregularity, <i>P</i> <sub>L1</sub> Pre-Code	-1.1		-0.9		-0.7	-0.9	-0.7	-0.8	-0.6	-0.8 -0.7	0.5	-0.7	-0.6 -0.3	-0.7	-0.7	0.4	NA -0.1
Post-Benchmark	1.6		2.2		1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B	0.1		0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories) Soil Type E (> 3 stories)	0.2		0.1	-0.2 -0.6	-0.4 -0.6	0.2 NA	-0.1 -0.6	-0.4 -0.4	0.0 -0.5	0.0 -0.7	-0.2 -0.3	-0.3 NA	-0.1 -0.4	-0.1 -0.5	-0.1 -0.6	-0.2 -0.2	-0.4 NA
Minimum Score, S <sub>MIN</sub>	-0.		0.7	0.5	0.5	0.6	0.5	0.4	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL1	≥ S <sub>MIN</sub> : 5. <sup>-</sup>																
EXTENT OF REVIEW			Τ	OTHER	R HAZ	ARDS	;		АСТ	ION R	EQUI	RED					
Exterior: Partial Interior: None Drawings Reviewed: Yes Soil Type Source:	Visible				<b>Structu</b> ding poi ff, if kno	<b>ral Evalι</b> tential (ur wn)	nless SL2	>		es, unkno es, score es, other	wn FEM less tha	IA buildi In cut-ofi			uilding		
Geologic Hazards Source:	DOC	GAM				ds from t	aller adja	cent	🔳 N	0							
Contact Person:				buildi	0	ards or S	Soil Type	F					ation Rec			,	
LEVEL 2 SCREENING P	ERFORM	IED?		🗍 Signi	ficant da	amage/de							identified				
Yes, Final Level 2 Score, SL2	5.1		No	the s	tructura	system				o, nonstri etailed ev			exist that ecessary		ure mitiga	ation, but	a
Nonstructural hazards?	′es 🗌	1 🗌	No										ds identifi		] DNK		
Where inform	nation canno	t be verifi	ed, scro	eener shal	l note ti	he follow	ring: ES	ST = Esti	mated c	or unrelia	ble data	a <u>OR</u>	DNK = D	o Not Kı	now		
	ment-resisting f	rame		einforced co hear wall	ncrete		URM INF : TU = Tilt u	= Unreinfo p	rced mas	onry infi <b>ll</b>		= Manufa = Light m	actured Ho ietal			le diaphrag diaphragm	

FEMA P-154 Data Collection Form

## Level 2 (Optional) B HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Sacramento Elementary School	Final Level 1 Score:	$S_{L1} = 5.1$	(do not consider S <sub>MIN</sub> )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1}$ =	Plan Irregularity, $P_{L1}$ =
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 5.1$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE		_		
Торіс	Statement (	If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other.		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building t		er.	-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment frame,		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1	6' of wal	minimum).	-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) over	er at leas	t 50% of the		
	maximum)	length of the building.			-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story at	ove or h	eight of any		
		story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	it story al	pove or height	0.5	
	0.00	of any story is between 1.3 and 2.0 times the height of the story above.	. I I		-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	Delow Ca	ausing the	1.0	
	ł	diaphragm to cantilever at the offset.			-1.0	
	ł	Vertical elements of the lateral system at upper stories are inboard of those at lower storie There is an in-plane offset of the lateral elements that is greater than the length of the eler			-0.5	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t		system have	-0.3	
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.	ne latera	i system nave	-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of th	ne denth	of the spandre		
		or there are infill walls or adjacent floors that shorten the column.	io dopui		, -0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building's	s seismic	performance.	-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			-0.5	(Cap at -1.2)
Plan	Torsional irre	egularity: Lateral system does not appear relatively well distributed in plan in either or both di				
Irregularity, PL2	include the V	V1A open front irregularity listed above.)		•	-0.7	
	Non-parallel	system: There are one or more major vertical elements of the lateral system that are not ort	hogonali	o each other.	-0.4	
	Reentrant co	orner: Both projections from an interior corner exceed 25% of the overall plan dimension in t	hat direc	tion.	-0.4	
	Diaphragm o	opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	width at	that level.	-0.2	0
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = 0$
		arity: There is another observable plan irregularity that obviously affects the building's seism	ic perfori	mance.	-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.		(Can tatal	+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total	-1.0	
		1% of the height of the shorter of the adjacent structure and: One building is 2 or more stories taller than the other adjacent structure and:		pounding modifiers at -1.	- <u>1.0</u> 2) -0.5	
S2 Building	-	eometry is visible.		mouniers at - r.	-1.0	]
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	n (Do no	t comhine with	+0.3	
		nark or retrofit modifier.)	. [20110	Combine with	10.0	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	h as in a	warehouse).	+0.3	ĺ
URM	Gable walls a				-0.4	1
MH		upplemental seismic bracing system provided between the carriage and the ground.			+1.2	
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	M=
FINAL LEVEL	2 SCORE,	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 5.1			(Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance:	□ Y	es 🔲 No	•	,
		the comment box below and indicate on the Level 1 form that detailed evaluation is required			ding's score	
			V · ·	Na	<u>^</u>	
Location Exterior		Check "Yes" or "No")	Yes	No	Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		x		
· ·		vy cladding or heavy veneer. eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	х			
		any canopy over exit doors or pedestrian walkways that appears inadequately supported.		x		
		gn posted on the building that indicates hazardous materials are present.		x		
		In posted on the building with an unanchored LIPM wall or unbraced LIPM paranet or chimney.	+			

Interior There are hollow clay tile or brick partitions at any stair or exit corridor. Other observed interior nonstructural falling hazard:

Other observed exterior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation required

There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.

Comments:

х

х

х

## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 A HIGH Seismicity

and the second s							Add	Iress: _3	1701 NE 131s	<u>-1</u>								
										P <mark>R</mark>				2	Zip: <sub>97230</sub>	)		
						100		er Ident	-									
	10-	-	-	-	Contraction of				me: s	aver Elen	mentary Sch	nool - Maii	<u>1</u>					
								: <u> </u>										
				ALC: N	al an	100 miles												
New York						and the lot								ato/Tim	e: _ <sub>8/16</sub>	0.269		
			-		Se cure	31				-								
							No.	Stories:	Abov	e Grade	e:	_ Belo	w Grade	9: <u>o</u>	- Year	Built:	1963/65	EST
								litions:		. ft.):	50,400	(+ + + / + ) P		7104	_ Code	Year:	Unknown	
			/		1	(terrary)					Yes, Y							1000
		1					Occ	upancy		embly istrial t/	Comme Office Wareho		School	Services		storic overnmer	□ Shell nt	ter
	-		3		J	21	Soil	Type:	Hard Rock	□ <b>B</b> Avg Rock	Den: Soi	se S	D C	Boft P		NK DNK, ass	ume Type	€D.
4	88	1				-	Geo	logic Ha	azards:	Liquefac	ction: Yes	/No/DN	K Lands	slide: Yes	No/DNK	Surf. Ru	upt.: Yes/	No/DNK
			A		1000	NEB	ees Adj	acency:		P	ounding		Falling H	lazards fr	rom Talbr	Adjacen	t Building	3
		-		6.3	>	-		qularitie			ertical (ty lan (type)		rity) entrant corr	ners	10			
11. 4			*	1 H	K	2	Exte	erior Fal	lina	1	nbraced	(	/S	He	avy Clado	lina or H	eavv Ver	neer
	Slover (		NOT	-	3 I ST PI			ards:		P	arapets				pendages			
And the second	A	Salar		File				MMENT	·C.	0	ther:							
Red .	SKE	тсн		1		A W		Addition	al sketch	es or cor	nments c	n separ	ate page	)				
		в	ASIC	SCOR	RE, MO	DIFIE	RS, A	ND FIN	AL LE	EVEL <sup>·</sup>	1 SCO	RE, S	L1					
FEMA BUILDING TYPE	DoNot Know	W1	W1A	W2	S1 (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	<b>S4</b> (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	<b>PC1</b> (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	мн
Basic Score		3.6	3.2	2.9	21	2.0	2.6	2.0	1.7	1.5	20	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1		-1.2 -0.7	-1.2 -0.7	-1.2 -0.7	-1.0 -0.6	-1.0 -0.6	-1.1 -0.7	-1.0 -0.6	-0.8 -0.5	-0.9 -0.5	-1.0 -0.6	0.7 0.4	-1.0 -0.6	-0.9 -0.5	-0.9 -0.5	-0.9 -0.5	-0.7 -0.4	NA NA
Plan Irregularity, $P_{L1}$		-1.1	-1.0	-1.0	-0.8	-0.0	-0.9	-0.7	-0.5	-0.5	0.0	-0.4	-0.7	0.5	-0.7	-0.5	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	0.6	-0.2	-0.4	$\overrightarrow{07}$	-0.1	-0.5	0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark		1.6	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3 0.2	0.5 0.1	0.4	0.6 -0.4	0.1 0.2	0.6	0.5 -0.4	0.4	0.5	0.3 -0.2	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories) Soil Type E (> 3 stories)		0.2	-0.6	-0.9	-0.2 -0.6	-0.4 -0.6	0.2 NA	-0.1 -0.6	-0.4	0.0	0.0	0.2	-0.3 NA	-0.1 -0.4	-0.1 -0.5	-0.1 -0.6	-0.2 -0.2	-0.4 NA
Minimum Score, S <sub>MIN</sub>		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL	1 ≥ S <sub>MIN</sub> :	0.5																
EXTENT OF REVIEW					OTHER	RHAZ	ARDS	i		ACT	ION R	EQUI	RED					
Exterior: Derti			Aer		Are There				4	Detail	ed Struc	tural Ev	aluatior	n Require	ed?			
Interior: Interior: None Drawings Reviewed: Ves		√isible No	🔳 Ent	ered	Detailed S						es, unkno				or other b	uilding		
Soil Type Source:		NU ssumed			Poun cut-of	ding pot f, if knov		Hess $S_{L2}$	>		es, score es, other							
Geologic Hazards Source:		DOGAM			🗌 Fallin	g hazar	,	aller adja	cent									
-					buildi	na				Detell	ed Nonsi	tructure						
Contact Person:							arde or C		c	Detail	cu nons	uuctura	l Evalua	ation Red	commen	ded? (ch	eck one)	
-	PERFC	ORME	D?	_	Geolo	ogic haz		oil Type terioratio		□ Ye	es, nonst	ructural	hazards	identified	d that sho	uld be ev	/aluated	
Contact Person:		ORME	<b>D?</b> □ N	0	Geolo	icant da				II Ye	es, nonsti o, nonstri	ructural uctural h	hazards azards e	identified exist that	l that sho may requ	uld be ev	/aluated	
Contact Person: LEVEL 2 SCREENING I Yes, Final Level 2 Score, Su		DRME			Geolo	icant da	image/de			I Ye No de	es, nonst	ructural uctural h aluation	hazards azards e is not ne	identified exist that ecessary	l that sho may requ 	uld be ev	/aluated	
Contact Person: LEVEL 2 SCREENING Ves, Final Level 2 Score, Su	2 Yes			lo	Geole	ogic haz icant da ructural	image/de system	terioratio	in to	☐ Ye ■ Ne de □ Ne	es, nonstr o, nonstru etailed ev o, no non	ructural uctural h aluation structura	hazards azards e is not ne al hazaro	identified exist that ecessary ds identifi	d that sho may requ ied [	uld be ev uire mitiga	/aluated	

FEMA P-154 Data Collection Form

### Level 2 (Optional) **HIGH Seismicity**

Α Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Shaver Elementary School - Main	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, V <sub>L1</sub> = 0	Plan Irregularity, $P_{L1} = -0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic	Statement (	f statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	e other.		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building	to the oth	ner.	-0.3	
0	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	noment fra	me,	
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use '	16' of wal	l minimum	)	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov				
	maximum)	length of the building.			-1.2	
	ĺ	Non-W1 building: Length of lateral system at any story is less than 50% of that at story al	bove or h	eight of an	ıy	
		story is more than 2.0 times the height of the story above.		-	-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story a	bove or he	ight	
		of any story is between 1.3 and 2.0 times the height of the story above.	•		-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	/ below c	ausing the		
		diaphragm to cantilever at the offset.			-1.0	
	]	Vertical elements of the lateral system at upper stories are inboard of those at lower storie	es.		-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the ele	ments.		-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in	the latera	al system h	ave	
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	he depth	of the spa	ndrel,	
		or there are infill walls or adjacent floors that shorten the column.			-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	10
	Other	There is another observable severe vertical irregularity that obviously affects the building's	s seismic	performar	nce (10	$V_{L2} = -1.0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se	eismic per	rformance.	-0.5	(Cap at -1.2)
Plan	Torsional irre	egularity: Lateral system does not appear relatively well distributed in plan in either or both d	lirections	. (Do not		
Irregularity, PL2	include the V	V1A open front irregularity listed above.)			$\bigcirc 7$	>
	Non-parallel	system: There are one or more major vertical elements of the lateral system that are not ort	hogonal	to each oth	ner0.4	
		rner: Both projections from an interior corner exceed 25% of the overall plan dimension in t			$\bigcirc$	$\geq$
	Diaphragm o	pening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	n width at	that level.	-0.2	
	C1, C2 build	ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	
	Other irregul	arity: There is another observable plan irregularity that obviously affects the building's seism	nic perfor	mance.	-0.7	
Redundancy	The building	has at least two bays of lateral elements on each side of the building in each direction.			+0.3	3
Pounding	Building is se	eparated from an adjacent structure The floors do not align vertically within 2 feet.	-	(Cap total	$\mathbb{T}$	>
	by less than	1% of the height of the shorter of the One building is 2 or more stories taller than the oth	ner	pounding	-1.0	
	building and	adjacent structure and: The building is at the end of the block.		modifiers a	at -1.2) -0.5	
S2 Building	"K" bracing g	eometry is visible.			-1.0	
C1 Building	Flat plate ser	rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	g. (Do no	t combine	with +0.3	3
	post-benchm	park or retrofit modifier.)				
PC1/RM1 Bldg	The building	has closely spaced, full height interior walls (rather than an interior space with few walls suc	ch as in a	warehous	se). +0.3	3
URM	Gable walls a	are present.			-0.4	
MH	There is a su	pplemental seismic bracing system provided between the carriage and the ground.			+1.2	M= <u>-1.0</u>
Retrofit	Comprehens	ive seismic retrofit is visible or known from drawings.			+1.4	M=
FINAL LEVEL	2 SCORE,	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$			(Transi	er to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance	: 🗆 Y	es 🔳 I	,	/
		the comment box below and indicate on the Level 1 form that detailed evaluation is required				ore.
OBSERVABL		UCTURAL HAZARDS				
Location	Statement (	Check "Yes" or "No")	Yes	No	Co	omment
Exterior	There is an u	inbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		х		
		vy cladding or heavy veneer.	х		В	rick veneer
	There is a he	eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		х		
		inreinforced masonry appendage over exit doors or pedestrian walkways.		х		

	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.	x	
	There is a sign posted on the building that indicates hazardous materials are present.	x	
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.	x	
	Other observed exterior nonstructural falling hazard:	х	
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.	x	
	Other observed interior nonstructural falling hazard:	x	
Estimated No	onstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)		
	Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural	al Evaluation rec	commended
	Nonstructural hazards identified with significant threat to occupant life safety	structural Evalua	ation required
	Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation	required	

Comments:

## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 B HIGH Seismicity

					-	Address:	3701 NE 131s	1 <sup>9</sup> L								
		10	1	X			Portland, C					2	Zip: <sub>97230</sub>	0		
						Other Iden										
		-				Building N	ame: s	laver Elen	nentary Scł	noo <b>l -</b> 2014	4 Addition	n (MPR)				
		~				Use: Latitude: _					ongitu	udo:				
						Ss: 0.628						uue. <u>-</u>		0.269		
						Screener(s				`		Date/Tim				
		-			all have a				<b>.</b> .	Rola				r Built:		EST
						No. Storie: Total Floo	Area (se	ft.):		_ Delo	v Grau	0.0	- Code	e Year:	2014	
						Additions:			Yes, 1				-		2010 0550	
		mm		1		Occupanc	y: Ass	embly	Comme	rcial	Emer.	Services	- 1	istoric	Shelt	ler
				1111				ustrial	Office		School		100 C 100	overnmer	nt	
							Utili		Wareho			ntial, #U				
No. 10 Section and Manual	110	2			12	Soil Type:	□A Hard	Avg	Den	1.5.5.5		_		NK DNK, ass	ume Tvpe	D.
		P	14	1 Part			Rock	Rock	Soi				Soil			
				1.5		Geologic I	lazards:	Liquefac	ction: Yes	/No/DN	K Land	slide: Yes	s/No/DNK	Surf. Ru	upt.: Yes/	No/DNK
==	1.18	-	1 1	C. C.	NE Beech	Adjacency	:		ounding		Falling H	Hazards fi	rom Taller	Adjacen	t Building	
	-			1	1+a	Irregulariti	es:		ertical (ty lan (type)		ity)					
110 2		-	THE REAL		C	Exterior Fa	Illing	Dυ	nbraced	Chimney	'S	🔳 He	avy Clate	ding or H	eavy Ver	neer
Seve	(III)				-	Hazards:	1980		arapets			🗆 Ap	pendages	5		
A.	Salars		Ein	11	-	001115		0	ther:	_						
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	-		3. 5													
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sk	ЕТСН					Additio						9				
	B		-	E, MOD		AND FI	NAL LI	EVEL	1 SCO	RE, S	L1			1		
FEMA BUILDING TYPE DoNot C2 DoNot		ASIC S	W2	S1	S2 S			C1 (MRF)	1 SCO C2 (SW)	RE, S C3 (URM INF)	L1 PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE DoNot C2 Know Basic Score	8/ W1 3.6	W1A	W2	S1 (MRF) 2.1	S2 (BR) (L 2.0 2	AND FI 3 S4 M) (RC SW) .6 2.0	NAL LI S5 (URM INF) 1.7	EVEL C1 (MRF) 1.5	1 SCO C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) <b>1.7</b>	1.0	1.5
FEMA BUILDING TYPE DoNot C2 DoNot Basic Score Severe Vertical Irregularity, VL1	B/ W1 3.6 -1.2	W1A 3.2 -1.2	W2 -1.2	S1 (MRF) 2.1 -1.0	S2 (BR)         S (L           2.0         2           1.0         -1	AND FI 3 S4 (RC SW) 6 2.0 1 1.0	<b>NAL LI</b> (URM INF) <b>1.7</b> -0.8	C1 (MRF) 1.5 -0.9	1 SCO (SW) 2.0 -1.0	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7	L1 PC1 (TU) 1.6 -1.0	PC2 1.4 -0.9	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
FEMA BUILDING TYPE DoNot C2 Know Basic Score	8/ W1 3.6	W1A	W2	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6	S2 (BR)         S (L           2.0         2           -1.0         -1           -0.6         -0	AND FI 3 S4 M) (RC SW) .6 2.0	NAL LI S5 (URM INF) 1.7	EVEL C1 (MRF) 1.5	1 SCO C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) <b>1.7</b>	1.0	1.5
FEMA BUILDING TYPE         DoNot           C2         Know           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Pre-Code	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> 32 -1.2 -0.7 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6	S2 (BR)         S (L           2.0         2           -1.0         -1           -0.6         -0           -0.7         -0           -0.6         -0	AND FI 33 S4 (RC SW) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6	<b>NAL LI</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	<b>1.5</b> NA NA NA -0.1
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Post-Benchmark	<b>B</b> , <b>W1</b> 3.6 -1.2 -0.7 -1.1 -1.1 1.6	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 (2.2)	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4	S2 (BR)         S (L           2.0         2           -1.0         -1           -0.6         -0           -0.7         -0           -0.6         -0           1.4         1	AND FI 33 S4 (RC SW) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 .1 1.9	NAL LI S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1	<b>RE, S<sub>2</sub></b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE     DoNot       C2     Kiow       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, VL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Soil Type A or B	<b>B</b> , <b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1	<b>W1A</b> 32 -1.2 -0.7 -1.0 -1.0 1.9 0.3	W2 -1.2 -0.7 -1.0 -0.9 (2.2) 0.5	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4	S2 (BR)         S (L           2.0         2           -1.0         -1           -0.6         -0           -0.7         -0           -0.6         -0           1.4         1           0.6         0	AND FI 33 S4 (RC 5W) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 .1 1.9 .1 0.6	NAL LI S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5	RE, S/ (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Post-Benchmark	<b>B</b> , <b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 (2.2)	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	S2         S           (BR)         (L           2.0         2           -1.0         -1           -0.6         -C           -0.7         -C           -0.6         -C           1.4         1           0.6         0           -0.4         0	AND FI 33 S4 (RC SW) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 .1 1.9	NAL LI S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1	<b>RE, S<sub>2</sub></b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE         DoNot           C2         Know           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (1-3 stories)	<b>B</b> , <b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	W2 -1.2 -0.7 -1.0 -0.9 (2.2) 0.5 0.1	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6	S2         S           (BR)         (L           2.0         2           1.0         -1           0.6         -C           0.7         -C           0.6         -C           1.4         1           0.6         0           0.4         0           0.6         N	AND FI 33 S4 (RC 500) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 .1 1.9 .1 0.6 .2 -0.1	NAL LI S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0	RE, S/ (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE         DoNot           C2         Know           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)	B, w1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 (2.2) 0.5 0.1 -0.9	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6	S2         S           (BR)         (L           2.0         2           1.0         -1           0.6         -C           0.7         -C           0.6         -C           1.4         1           0.6         0           0.4         0           0.6         N	AND FI 33 S4 (RC 500) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 .1 1.9 .1 0.6 .2 -0.1 IA -0.6	NAL LI St (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1 (MRF) -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7	RE, S <sub>2</sub> (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE     DoNot       C2     Know       Basic Score     Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code       Post-Benchmark     Soil Type A or B       Soil Type E (1-3 stories)     Soil Type E (> 3 stories)       Minimum Score, Smin     Minimum Score, Smin	B, w1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 (2.2) 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6	S2         S2<	AND FI 33 S4 M) (RC (W) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 1.1.9 1.1 0.6 2.2 -0.1 1.4 -0.6 0.5	NAL LI St (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7	RE, S <sub>2</sub> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	PC1 (TU) -1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Image: State S	B, w1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.1.0         -1           -1.0         -1           -0.6         -C           -0.7         -C           -0.6         -C           0.1.4         1           0.6         0           -0.4         0           0.6         N           0.75         0	AND FI 3 S4 (RC 8W) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 1.1 1.9 1.1 0.6 2 -0.1 1.4 -0.6 0.5 DS	NAL LI S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 -0.4 0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF	PC1 (TU) -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None	B, W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 5.1 All Sides Visible	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.1.0         -1           -1.0         -1           0.6         -C           0.7         -C           0.6         -C           0.6         -C           0.6         0           0.6         0           0.6         0           0.6         0           0.6         0           0.6         0           0.7         -C           0.6         0           0.6         0           0.5         0           HAZAR           lazards T	AND FI 3 S4 M) (RC SW) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 1.1.9 1.1 0.6 2 -0.1 1.4 -0.6 0.5 DS hat Trigger	NAL LI S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 -0.4 0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3 0.3	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S <sub>1</sub> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Eva	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, Smin         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       D         Drawings Reviewed:       Yes       Yes	B, w1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 5.1 All Sides	W1A           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.1.0         -1           -1.0         -1           -0.6         -C           -0.7         -C           -0.6         -C           -0.6         -C           -0.6         -C           -0.6         N           -0.5         0           HAZAR         Iazards T           uctural E         g potentia	AND FI 3 S4 (RC 8W) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 1.1 1.9 1.1 0.6 2 -0.1 1.4 -0.6 0.5 DS hat Trigger valuation?	NAL LI           S5           (URM           NF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           0.9           0.5           0.6           0.4           0.0           0.5           0.3	1 SCO C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, unkno es, score	RE, S <sub>2</sub> C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Eva wwn FEM less that	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation NA build	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Minimum Score, Smin       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:         Interior:       Partial         Interior:       None         Drawings Reviewed:       Yes	B, W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 5.1 All Sides Visible No	W1A           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	w2 -1.2 -0.7 -1.0 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.0         2           1.0         -1           0.6         -C           0.6         -C           0.6         -C           1.4         1           0.6         0           -0.6         -C           0.7         -C           0.6         0           0.6         0           0.6         0           0.5         0	AND FI 3 S4 (RC 8W) 6 2.0 1.1 -1.0 0.7 -0.6 0.9 -0.7 0.8 -0.6 1.1 1.9 1.1 0.6 2 -0.1 1.4 -0.6 0.5 DS hat Trigger valuation?	NAL Li           S5           (URM           0.5           -0.6           -0.2           NA           0.5           -0.4           0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           0.9           0.5           0.6           0.4           0.0           0.5           0.3	1 SCO C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, score es, other	RE, S <sub>2</sub> C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Eva wwn FEM less that	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation NA build	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:         Interior:       Partial         Drawings Reviewed:       Yes         Soil Type Source: $V$	B, W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 5.1 All Sides Visible No Vasumed	W1A           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	w2 -1.2 -0.7 -1.0 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         I           2.0         2           1.0         -1           -0.6         -C           -0.7         -C           -0.6         -C           1.4         1           0.6         0           -0.6         -C           -0.6         -C           -0.6         -C           -0.6         N           0.5         0   HAZAR Iazards Ti uctural E g potentia f known) nazards from	AND FI 3 S4 (RC (RC SW) 6 2.0 .1 -1.0 .7 -0.6 0.9 -0.7 0.8 -0.6 1 1.9 .1 0.6 .2 -0.1 1 0.6 .2 -0.1 I 0.6 .6 0.5 DS hat Trigger valuation? I (unless S <sub>L</sub> om taller adj	NAL LI           85           (JRM           0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.4         0.0         -0.5         0.3	C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, <i>Si</i> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 <b>EQUIF</b> tural Eva wwn FEM less that hazards	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.6           -0.7           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? pr other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Extrerior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source: $A$ Geologic Hazards Source: $A$ Contact Person: $A$	B, W1 -1.2 -0.7 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1	W1A           32           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.0         2           -1.0         -1           -1.0         -1           -0.6         -C           -0.7         -C           -0.6         -C           1.4         1           0.6         0           -0.6         N           0.6         0           0.6         N           0.6         N           0.5         0	AND FI           3         S4           M)         (RC           3.1         -1.0           0.7         -0.6           0.9         -0.7           0.8         -0.6           .1         1.9           .1         0.6           .2         -0.1           IA         -0.6           .6         0.5	NAL Li           S5           (URM           0.5           -0.6           -0.2           NA           0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, score es, other o ed Nonse	RE, <i>Si</i> (URM (URM) (INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 <b>EQUIF</b> tural Eva bown FEM less that hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA build n cut-of presen	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? pr other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> (ch	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, S_MIN         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Z       Z       Z         Geologic Hazards Source:       Contact Person:       Z       Z	B, W1 -1.2 -0.7 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1	<ul> <li>W1A</li> <li>3.2</li> <li>-1.2</li> <li>-0.7</li> <li>-1.0</li> <li>-1.0</li> <li>1.9</li> <li>0.3</li> <li>0.2</li> <li>-0.6</li> <li>0.9</li> </ul>	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.0         2           -1.0         -1           -1.0         -1           -0.6         -C           -0.7         -C           -0.6         -C           1.4         1           0.6         0           -0.6         N           0.6         0           0.6         N           0.6         N           0.5         0	AND FI           33         54           M)         (RC           (RC         SW)           6         2.0           1.1         -1.0           0.7         -0.6           0.9         -0.7           0.8         -0.6           .1         1.9           .1         0.6           .2         -0.1           IA         -0.6           .6         0.5   DS hat Trigger valuation? Il (unless SL om taller adj or Soil Type e/deteriorat	NAL Li           S5           (URM           0.5           -0.6           -0.2           NA           0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, <i>Si</i> (URM (URM) (URF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 <b>EQUIF</b> tural Eva base that hazards tructural hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation A build A build A build n cut-of presen I Evalu mazards azards	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of t ation Rec sidentified exist that	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commend that shot	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> ( <i>ch</i> build be ev	1.0 -0.7 -0.4 -0.4 0.3 -0.2 -0.2 0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Extrerior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source: $A$ Geologic Hazards Source: $A$ Contact Person: $A$	B, W1 -1.2 -0.7 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1	W1A           32           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	S2         S           (BR)         (L           2.0         2           1.0         -1           0.6         -C           0.07         -C           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         0.7           0.6         N           0.5         0	AND FI           33         54           M)         (RC           (RC         SW)           6         2.0           1.1         -1.0           0.7         -0.6           0.9         -0.7           0.8         -0.6           .1         1.9           .1         0.6           .2         -0.1           IA         -0.6           .6         0.5   DS hat Trigger valuation? Il (unless SL om taller adj or Soil Type e/deteriorat	NAL Li           S5           (URM           0.5           -0.6           -0.2           NA           0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.9         0.4         0.0         -0.5         0.3         ACT         Detail         □ Y (c)         □ N(c)         □ O (c)	I         SCO           C2 (SW)         2.0           -1.0         -0.6           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, <i>S</i> <sub>1</sub> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Eva basa that hazards tructural hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA build n cut-off presen I Evalu. azards azards is not n	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 -0.1 -0.4 0.2 n Require ing type of t ation Rec identified	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commend that shoc may requ	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> ( <i>ch</i> build be ev	1.0 -0.7 -0.4 -0.4 0.3 -0.2 -0.2 0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type Source:       Partial         Drawings Reviewed:       Yes         Drawings Reviewed:       Yes         Soil Type Source:       Contact Person:         LEVEL 2 SCREENING PERFICE       Soil Type Source:         Image:       Yes         Soil Type Sinal Level 2 Score, $S_{L2}$ Soil Type Sinal Level 2 Score, $S_{L2}$	B, W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 5.1 All Sides Visible No Visible No Visible No	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2 -1.2 -0.7 -1.0 0.5 0.1 -0.9 0.7 ial ered	S1           (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5   OTHER I Are There H Detailed Str           Poundin cut-off, i Falling I building Geologi Significa the struct	S2         S           (BR)         I           2.1.0         -1           -1.0         -1           -0.6         -C           0.7         -C           0.6         -C           1.4         1           0.6         0           -0.6         -C           -1.4         0           0.6         0           -0.6         N           0.5         0   HAZAR HAZAR Hazards Ti Hazards frown) nazards for c hazards spectrulation of the systematic sys	AND FI           33         S4           M)         (RC           .6         2.0           .1         -1.0           0.7         -0.6           0.9         -0.7           0.8         -0.6           .1         1.9           .1         0.6           .2         -0.1           .4         -0.6           .6         0.5   DS hat Trigger valuation? Il (unless S <sub>L</sub> or Soil Type e/deteriorat em	NAL Li           85           (URM           0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3           Detail           Y4           Y4           Y4           Y4           Y4           Y4           Y4           No           Detail           Y4           No           No           No           No           No           No           No	I         SCO           C2 (SW)         2.0           -1.0         -0.6           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S <sub>1</sub> C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Eva base that hazards tructural hazards tructural hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation A build A build A build A build I cut-of presen I Evalu. mazards is not n nl hazards	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Require ing type of t ation Rec sidentified exist that ecessary ds identified	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commend that shoc may required	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch ould be ev uire mitig:	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code       Post-Benchmark       Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, S_MN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MN}$ EXTENT OF REVIEW       Exterior:       Partial       Image: Context Person:         Drawings Reviewed:       Yes       Yes       Image: Contact Person:         LEVEL 2 SCREENING PERFORMED       EVEL 2 Score, $S_{L2}$ 5.1	B, W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 5.1 All Sides Visible No Visible No Visible No Cannot bo Sisting fram	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered d, scree	S1           (MRF)           21           -1.0           -0.6           -0.8           -0.6           14           0.4           -0.2           -0.6           0.5   OTHER I Are There H Detailed Str            Detailed Str            Poundin          cut-off, i            Falling I            building            Geologi           Significa           the struct	S2         S           (BR)         (L           2.1.0         -1           -1.0         -1           -0.6         -C           0.0.7         -C           0.0.6         -C           0.1.4         1           0.6         0           0.7         -C           0.6         -C           0.7         -C           0.6         -C           0.7         -C           0.6         -C           0.6         0           0.6         0           0.5         0   HAZAR HAZAR Integration of the formation of the formatical of the formation of the formation of the f	AND FI           33         S4           M)         (RC           1         -1.0           0.7         -0.6           0.9         -0.7           0.8         -0.6           1         1.9           1         0.6           .2         -0.1           1A         -0.6           .6         0.5   DS hat Trigger valuation? Il (unless S <sub>L</sub> or Soil Type e/deteriorat em <i>Ilowing: E</i>	NAL LI           S5           (URM           0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.3           ION RI           ed Structes, unknowners, score           es, other           o           ed Nonstructes, nonstructed, nonstructed, nonstructed, nonstructed, nonstructed, nonstructed, nonstructed, nonstructed, nonon           or unrelia	RE, S <sub>1</sub> C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Eva hazards tructural hazards tructural hazards tructural hazards tructural hazards tructural hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 CED aluation A build n cut-of presen I Evalu: mazards azards is not n al hazar <u>0 R</u>	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 -0.1 -0.4 0.2 n Require ing type of t ation Rec sidentified exist that ecessary ds identified DKE = L actured Ho	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commend that sho may required bo Not Kip pusing F	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch ould be ev uire mitig:	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

### Level 2 (Optional) **HIGH Seismicity**

В Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Shaver Elementary School - 2014 Addition (MPR)	Final Level 1 Score:	$S_{L1} = 5.1$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, V <sub>L1</sub> = 0	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 5.1$	

Topic		RS TO ADD TO ADJUSTED BASELINE SCORE If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	othor		-1.2	Gubtotalo
Irregularity, $V_{L2}$	Site	Non-W1 building: There is at least a full story grade change from one side of the building to the		hor	0.3	•
integularity, VL2	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			0.5	•
	and/or	W1 building cripple wall. An unbraced cripple wall is visible in the craw space. W1 house over garage: Underneath an occupied story, there is a garage opening without	a stool	momont framo	-0.0	
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use '			-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov			-1.2	•
	maximum)	length of the building.			-1.2	
	maximaniy	Non-W1 building: Length of lateral system at any story is less than 50% of that at story al	nove or	height of any	-1.2	•
		story is more than 2.0 times the height of the story above.		noight of any	-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story a	above or height	0.0	
		of any story is between 1.3 and 2.0 times the height of the story above.	at otory t	bovo or noight	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	below	causing the	0.0	
	Company	diaphragm to cantilever at the offset.	501011	sadonig tro	-1.0	
	1	Vertical elements of the lateral system at upper stories are inboard of those at lower stories	s		-0.5	
	1	There is an in-plane offset of the lateral elements that is greater than the length of the elements			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in		al system have	1	
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	ne depth	of the spandrel.		
		or there are infill walls or adjacent floors that shorten the column.		· · · · · · · · · · · · · · · · · · ·	-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building's	s seismi	c performance.	-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se	ismic pe	erformance.	-0.5	(Cap at -1.2)
Plan	Torsional irre	egularity: Lateral system does not appear relatively well distributed in plan in either or both d				
Irregularity, PL2	include the V	V1A open front irregularity listed above.)		,	-0.7	
	Non-parallel	system: There are one or more major vertical elements of the lateral system that are not ort	hogona	to each other.	-0.4	
	Reentrant co	prner: Both projections from an interior corner exceed 25% of the overall plan dimension in t	hat dire	ction.	-0.4	
	Diaphragm of	ppening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	width a	t that level.	-0.2	
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = 0$
	Other irregu	arity: There is another observable plan irregularity that obviously affects the building's seism	iic perfo	rmance.	-0.7	(Cap at -1.1)
Redundancy	The building	has at least two bays of lateral elements on each side of the building in each direction.			+0.3	
Pounding	Building is se	eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total	-1.0	]
	by less than	1% of the height of the shorter of the One building is 2 or more stories taller than the oth	ner.	pounding	-1.0	
	building and	adjacent structure and: The building is at the end of the block.		modifiers at -1.2)	-0.5	]
S2 Building	"K" bracing of	eometry is visible.			-1.0	
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	g. (Do n	ot combine with	+0.3	
		nark or retrofit modifier.)				
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	ch as in	a warehouse).	+0.3	
URM	Gable walls				-0.4	ļ
MH	There is a su	upplemental seismic bracing system provided between the carriage and the ground.			+1.2	M= 0
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	M =
FINAL LEVE	2 SCORE,	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 5.1		(	Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance.	· 🗆 `	res 🔳 No		
		the comment box below and indicate on the Level 1 form that detailed evaluation is required			g's score	
					-	
		UCTURAL HAZARDS				
Location		Check "Yes" or "No")	Yes	No	Com	ment
Exterior	There is an u	unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		x		
	There is hea	vy cladding or heavy veneer.	х		Brick	veneer
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x		
	Thore is on u	uncertainforced maconny appendence over exit deere or pedeetrien wellsweve				

	There is an unreinforced masonry appendage over exit doors or pedestrian walkways.		x	
	There is a sign posted on the building that indicates hazardous materials are present.		х	
	There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		х	
	Other observed exterior nonstructural falling hazard:		х	
Interior	There are hollow clay tile or brick partitions at any stair or exit corridor.		x	
	Other observed interior nonstructural falling hazard:		x	
Estimated No	nstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)			
	Potential nonstructural hazards with significant threat to occupant life safety ->Detailed Nonstructur	al Evaluatior	n reco	ommended
	□ Nonstructural hazards identified with significant threat to occupant life safety →But no Detailed Non	structural Ev	valuat	tion required
	Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation	n required		

Comments:

FEMA P-154 Data Collection Form

						Add	iress:	1800 NE Sha	ar St.								
														Zip: <sub>9722</sub>	0		
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m						Bui	Iding Na	me: _p	rkrose M	iddle Schoo	d						
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	Parkrose M	iddle School		1		Geo	logic H	azards:	Liquefa	ction: Yes	/No/DN	K Land	slide: Ye	s/No/DN	Surf. Ru	upt.: Yes/	No/DNK
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FEMA BUILDING TYPE RM1	DoNot N Know	V1 W1	W2	(MRF)	S2 (BR)	\$3 (LM)	<b>S4</b> (RC	S5 (URM	C1 (MRF)	C2 (SW)	C3 (URM	PC1 (TU)	PC2	<b>RM1</b> (FD)	RM2 (RD)	URM	МН
Basic Score	1000000	16 3.2	29	21	2.0	2.6	SW)	INF)	1.5	2.0	INF) 1.2	1.6	1.4	(1.7)	0 1.7	1.0	1.5
Severe Vertical Irregularity, VL1		1.2 -1.2	· · · · ·		-1.0	-1.1	-1.0	-0.8	0.9	-1.0	-0.7	-1.0	-0.9	0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, $V_{L1}$		0.7 -0.7	-0.7		-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, PL1		1.1 -1.0			-0.7	-0.9	-0.7	-0.6	-0.6	-0.8	-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code Post-Benchmark		1.1 -1.0 1.6 1.9	-0.9		-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5 2.0	-0.3	-0.5	-0.5	0.0 NA	-0.1
Soil Type A or B		1.6 1.9 1.1 0.3	0.5		1.4 0.6	1.1 0.1	1.9 0.6	NA 0.5	1.9 0.4	2.1 0.5	NA 0.3	0.6	2.4 0.4	(2.1) 0.5	2.1 0.5	0.3	1.2 0.3
Soil Type E (1-3 stories)		0.2 0.2	0.1		-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		0.3 -0.6			0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S <sub>MIN</sub>	1	1.1 0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL1	≥ <b>S</b> <sub>MIN</sub> : 3	.8															
EXTENT OF REVIEW	-			OTHE	<b>Р Н ^ 7</b>				ΔΟΤ	ION R	FOUN						
Exterior:		ides 🔲 A	erial	Are The				<u>`</u>		ed Struc	-		n Requir	red?			
Interior: None	Visit	=	ntered	Detailed				`					•		uilding		
Drawings Reviewed:  Yes		·		Pour				>		es, unkno es. score				u uner D	uluiny		
Soil Type Source:	Assume				off, if kno				Π Y	es, other							
Geologic Hazards Source:		OGAM				ds from t	aller adia	cent	🔳 N								
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Contact Person:	PERFOR	MED?	No No	build □ Geol □ Sign	ling logic haz ificant da	amage/de	Soil Type	F	Detail	es, nonst	ructural uctural h aluation	hazards azards is not n	identifie exist that ecessary	d that sho t may req /	ould be ev	valuated	а
Contact Person: LEVEL 2 SCREENING I ■ Yes, Final Level 2 Score, S <sub>L2</sub> Nonstructural hazards?	PERFOR 3.8 Yes	MED?	No	build Geol Sign the s	ling logic haz ificant da structural	amage/de I system	Soil Type eterioratio	F in to	Detail	es, nonst o, nonstri etailed ev o, no non	ructural uctural h aluation structura	hazards azards is not n al hazar	identifie exist that ecessary ds identi	d that sho t may req / fied [	ould be evuire mitig	valuated	а
Contact Person:	PERFOR 3.8 Yes mation can	MED?	No fied, sci RC = R	build Geol Sign the s	ling logic haz ificant da structural <i>II note ti</i>	amage/de   system <b>he follow</b>	Soil Type eterioration ving: ES	F on to S <b>T = Esti</b> = Unreinfor	Detail	es, nonst o, nonstri etailed ev o, no non or unrelia	ructural h uctural h aluation structura <b>ble data</b> MH	hazards iazards is not n al hazar a <u>OR</u>	identifie exist that ecessary ds identi <b>DNK = I</b> actured H	d that sho t may req / fied [ <b>Do Not K</b> ousing F	ould be evuire mitig	valuated ation, but	gm

FEMA P-154 Data Collection Form

## Level 2 (Optional) **HIGH Seismicity**

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose Middle School	Final Level 1 Score:	$S_{L1} = 3.8$	(do not consider S <sub>MIN</sub> )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 3.8$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE					
Topic	Statement (	If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	e other.			-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building		er.		-0.3	1
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.				-0.6	1
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment fra	me.		ĺ
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use				-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov					ĺ
	maximum)	length of the building.				-1.2	
	1	Non-W1 building: Length of lateral system at any story is less than 50% of that at story a	bove or h	eight of an	ιγ		
		story is more than 2.0 times the height of the story above.		0		-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story al	oove or he	eight		
		of any story is between 1.3 and 2.0 times the height of the story above.	-		-	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	y below ca	ausing the	+		
		diaphragm to cantilever at the offset.		-		-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower storie	es.			-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the ele				-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in	the latera	system h	nave		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of t	he depth	of the spa	ndrel,		
		or there are infill walls or adjacent floors that shorten the column.				-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.				-0.5	_
	Other	There is another observable severe vertical irregularity that obviously affects the building				-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se				-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or both c	lirections.	(Do not			
Irregularity, PL2		V1A open front irregularity listed above.)				-0.7	
		system: There are one or more major vertical elements of the lateral system that are not or			her.	-0.4	
	Reentrant co	orner: Both projections from an interior corner exceed 25% of the overall plan dimension in	that direct	tion.		-0.4	
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphragn	n width at	that level.		-0.2	0
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.				-0.4	$P_{L2} = 0$
		arity: There is another observable plan irregularity that obviously affects the building's seisn	nic perforr	mance.		-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.				+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		-1.0	
		1% of the height of the shorter of the One building is 2 or more stories taller than the ot		pounding		-1.0	
		adjacent structure and: The building is at the end of the block.		modifiers a	at -1.2)	-0.5	
S2 Building		eometry is visible.				-1.0	
C1 Building		rves as the beam in the moment frame.				-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bendin	g. (Do no	t combine	with	+0.3	
		nark or retrofit modifier.)					
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls su	ch as in a	warehous	se).	+0.3	
URM	Gable walls					-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.				+1.2	M= 0
Retrofit		sive seismic retrofit is visible or known from drawings.				+1.4	
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 3.8			(	Transfer	to Level 1 form)
There is observat	ole damage or	deterioration or another condition that negatively affects the building's seismic performance	: 🗌 Ye	es 🔳 I			
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	l indepen	dent of the	e building	g's score	
			V	N- 1		<b>C</b>	
Location Exterior		Check "Yes" or "No")	Yes	No		Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		x		Part of	
		vy cladding or heavy veneer.	x			Brick	veneer
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x			
		unreinforced masonry appendage over exit doors or pedestrian walkways.	-	×			
		gn posted on the building that indicates hazardous materials are present.	-	×			
		Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.	+	x			

There are hollow clay tile or brick partitions at any stair or exit corridor. Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Other observed exterior nonstructural falling hazard:

Detential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended □ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation required

Comments:

Interior

х

## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

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					-			Portland, C	P <mark>R</mark>					Zip: <sub>9722</sub>	0		
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MER ALS /				124	-	Geo	logic Ha	azards:	Liquefac	tion: Yes	s/No/DN	K Land	slide: Ye	s/No/DN	Surf. R	upt.: Yes/	No/DNK
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FEMA BUILDING TYPE DoNot S2 DoNot				RE, MO S1 (MRF)	DIFIE S2 (BR)		ND FIN	S5 (URM			RE, S		e PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE DoNot	В	ASIC	SCOF	S1	S2	RS, AN	ND FIN	S5	<b>VEL</b> <sup>7</sup>	1 SCO C2	RE, S	L1 PC1				URM 1.0	МН 1.5
FEMA BUILDING TYPE DoNot S2 DoNot Basic Score Severe Vertical Irregularity, VL1	8/ W1 3.6 -1.2	ASIC W1A 3.2 -1.2	SCOF W2 2.9 -1.2	<b>S1</b> (MRF) <b>2.1</b> -1.0	S2 (BR) 2.0 -1.0	RS, AN S3 (LM) 2.6 -1.1	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	<b>VEL</b> 7 (MRF) 1.5 -0.9	1 SCO (SW) 2.0 -1.0	RE, S, C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	1.0 -0.7	1.5 NA
FEMA BUILDING TYPE         DoNot           S2         Know           Basic Score         Severe Vertical Irregularity, VL1           Moderate Vertical Irregularity, VL1         VL1	B/ W1 3.6 -1.2 -0.7	ASIC W1A 3.2 -1.2 -0.7	SCOF W2 -1.2 -0.7	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6	<b>S2</b> (BR) -1.0 -0.6	RS, AN S3 (LM) 2.6 -1.1 -0.7	ND FIN S4 (RC SW) 2.0 -1.0 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5	1 SCO (SW) 2.0 -1.0 -0.6	RE, S, (URM INF) 1.2 -0.7 -0.4	L1 PC1 (TU) 1.6 -1.0 -0.6	PC2 1.4 -0.9 -0.5	(FD) <b>1.7</b> -0.9 -0.5	(RD) 1.7 -0.9 -0.5	<b>1.0</b> -0.7 -0.4	<b>1.5</b> NA NA
FEMA BUILDING TYPE DoNot S2 DoNot Basic Score Severe Vertical Irregularity, VL1	B/ W1 3.6 -1.2	ASIC W1A 3.2 -1.2	SCOF W2 2.9 -1.2	<b>S1</b> (MRF) <b>2.1</b> -1.0	S2 (BR) 2.0 -1.0	RS, AN S3 (LM) 2.6 -1.1	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	<b>VEL</b> 7 (MRF) 1.5 -0.9	1 SCO (SW) 2.0 -1.0	RE, S, C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	1.0 -0.7	1.5 NA
FEMA BUILDING TYPE     DoNot       S2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Post-Benchmark	<b>B</b> / <b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE         DoNot Ktow           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B	<b>B</b> / <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1	<b>ASIC</b> <b>W1A</b> <b>32</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3	SCOF W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
FEMA BUILDING TYPE         DoNot           S2         Kiow           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (1-3 stories)	<b>B</b> / <b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE     DoNot       S2     Know       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, VL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Soil Type A or B	B/ W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE         DoNot Ktow           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark           Soil Type A or B         Soil Type E (1-3 stories)           Soil Type E (> 3 stories)	B/ 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	ASIC W1A 32 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6	<b>RS, AI</b> <b>33</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	<b>S4</b> (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         DoNot Ktow           S2         Donot           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)           Minimum Score, Smin         Minimum Score, Smin	B/ 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	ASIC W1A 32 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>SCOF</b> <b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	<b>ND FIN</b> <b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 <i>0.3</i>	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, Sum       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:         Partial       Partial	B/ 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.0 All Sides	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aeri	<b>SCOF</b> <b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazard	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ds That 1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Frigger A	S5         (URM (INF))           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         S2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, Smini         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None	<b>B</b> / <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 <b>2.0</b> All Sides Visible	<b>ASIC</b> <b>W1A</b> -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>SCOF</b> <b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	S2 (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 R HAZ e Hazaro Structur	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS Is That T al Evalu	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A ation?	Image: Non-Structure         Non-Structure           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	C2 (SW)           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Evo wm FEW	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildi	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, Sum         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes	B/ 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.0 All Sides	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aeri	SCOF W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>e Hazard</b> <b>Structur</b> ding pot	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ds That 1 al Evalu ential (un	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Frigger A	Image: Non-Structure         Non-Structure           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.64         -0.9         0.4         0.0         -0.5         0.4         0.0         -0.5         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.4         0.9         0.5         0.3	C2         (SW)           2.0         -1.0           -0.6         -0.8           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S, (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev pwn FEM less tha	PC1           (TU)           1.6           -1.0           -0.6           -0.7           0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         S2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (2 3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, Sum         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes	<b>B</b> / <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 <b>2.0</b> All Sides Visible No	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aeri	SCOF W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	S2 (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 R HAZ e Hazaro Structur ding pot ff, if knov	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.1 0.2 NA 0.6 ARDS is That I value ential (un vn)	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A ation?	Image: Non-State         Non-State           NA         0.5         -0.4           0.5         -0.4         0.5           0.4         0.5         -0.4	C1           (MRF)           1.5           -0.9           -0.5           -0.64           0.9           0.4           0.0           -0.5           0.4           0.0           -0.5           0.4           0.7           Detail           □ Yee           □ Yee	C2         (SW)           2.0         -1.0           -0.6         -0.8           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S, (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev pwn FEM less tha	PC1           (TU)           1.6           -1.0           -0.6           -0.7           0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Extremor:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source: $V$	B/ 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.0 All Sides Visible No assumed	ASIC W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aeri	SCOF W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           2.1           -1.0           -0.6           -0.8           0.6           1.4           0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>r</b> (Structur dding pot ff, if know g hazard	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ds That T al Evalu ential (un vn) is from ta	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	S5         (URM (NF))           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4           -0.5         -0.4           0.5         -0.4           -0.5         -0.4           0.5         -0.4           0.5         -0.4	C1         (MRF)         1.5         -0.9         -0.5         -0.64         1.9         0.4         0.0         -0.5         0.3	I SCO           C2           (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bown FEM less tha hazards	PC1           (TU)           1.6           -1.0           -0.6           -0.7           0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? pr other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:       Gontact Person:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.0 All Sides Visible No ssumed DOGAMI	ASIC : W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aerit Ente	SCOF W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazaro Structur ding pot ff, if knov ng hazaro ing	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ds That 1 ral Evalu ential (un vn) ds from ta ards or S	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           aller adja         -0.6	Image: Non-Section 1         State           Image: Non-Section 1         Image	C1         (MRF)         1.5         -0.9         -0.5         -0.64         1.9         0.4         0.0         -0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural	PC1           (TU)           1.6           -1.0           -0.6           -0.7           0.5           2.0           0.6           -0.3           NA           0.2   RED aluation IA building n cut-of present I Evaluation I Evaluation	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re identifier	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? pr other b comment d that shot	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> ( <i>ch</i> build be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Z       Z       Z         Geologic Hazards Source:       Contact Person:       LEVEL 2 SCREENING PERF	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.0 All Sides Visible No ssumed DOGAMI	ASIC : W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aerit Ente	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           21           -1.0           -0.6           1.4           -0.2           -0.6           0.5   OTHEI Are Ther Detailed Pour cut-o Endire Build Geol Given Given Signite	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazaro Structur ding pot ff, if knov ng hazaro ing	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ds That 1 al Evalu ential (un vn) ds from ta ards or S mage/de	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	Image: Non-Section 1         State           Image: Non-Section 1         Image	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.9         0.4         0.0         -0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           0.5           0.0           -0.7           0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev bass tha hazards tructural h	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re identifier exist that	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commend d that shot may req	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:       Gontact Person:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.0 All Sides Visible No ssumed DOGAMI	ASIC W1A 32 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aerii Ente	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           21           -1.0           -0.6           1.4           -0.2           -0.6           0.5   OTHEI Are Ther Detailed Pour cut-o Endire Build Geol Given Given Signite	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>e Hazaro</b> <b>Structur</b> dding potr ff, if know g hazaro ing pogic hazar	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ds That 1 al Evalu ential (un vn) ds from ta ards or S mage/de	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           aller adja         -0.6	Image: Non-Section 1         State           Image: Non-Section 1         Image	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.0           -0.7           2.3           OON R           ed Strucc           es, unkno           es, score           es, onstruct           onstruct           onstruct           onstruct	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev bwn FEN less tha hazards tructural I uctural h aluation	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.7           aluation           IA building           n cut-off           present           I Evaluation           hazards           azards	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re identifier	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commen d that shot may req	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch build be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         S2       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SAMN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Contact Person:       Z         LEVEL 2 SCREENING PERFORMED       1.0	B/           3.6           -1.2           -0.7           -1.1           -1.6           0.1           0.2           -0.3           1.1           2.0	ASIC W1A 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 Aeri Ente	SCOF w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7 ial ered	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>B HAZAR</b> <b>Structur</b> ding pot ff, if knov g hazard ficant da tructural	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS is That 1 valuential (univn) is from ta ards or S mage/de system	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	Image: Non-State State         State           (URM INF)         1.7         -0.8           -0.5         -0.6         -0.2           NA         0.5         -0.4           -0.4         0.5         -0.4           -0.5         -0.4         -0.5           cent         F         n           F         n         to	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           0.5           0.0           -0.7           0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev base that hazards tructural h aluation structural structural turatural h	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re exist that ecessary ds identifie	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commend d that shot may req ied [	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch puld be ev uire mitig:	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

### Level 2 (Optional) A HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose High School - Classroom Wings	Final Level 1 Score:	$S_{L1} = 2.0$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 2.0$	

Topic		RS TO ADD TO ADJUSTED BASELINE SCORE If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			T	Yes	Subtotals
Vertical		W1 building: There is at least a full story grade change from one side of the building to the	othor			-1.2	Subtotals
Irregularity, $V_{L2}$	Sloping Site			or		-0.3	
irregularity, v <sub>L2</sub>	Weak	Non-W1 building: There is at least a full story grade change from one side of the building t	o the oth	ier.		-0.3	
	4	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.				-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without				10	
	Soft Story (circle one	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1				-1.2	
	(circle one maximum)	W1A building open front: There are openings at the ground story (such as for parking) ov	er at leas	St 50% of t	ine	10	
	maximumi	length of the building. Non-W1 building: Length of lateral system at any story is less than 50% of that at story at		- ! - ! - <b>!</b> - !		-1.2	
		story is more than 2.0 times the height of the story above.		Ū		-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a of any story is between 1.3 and 2.0 times the height of the story above.	it story al	bove or he	eight	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	below c	ausing the	,	0.0	
	Constant	diaphragm to cantilever at the offset.	501011 0	adonig the	·	-1.0	
	1	Vertical elements of the lateral system at upper stories are inboard of those at lower storie	s			-0.5	
	1	There is an in-plane offset of the lateral elements that is greater than the length of the elements that is greater than the elements that the elements th				-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t		system h	nave	0.0	
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.		a oyotonn i		-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	ne denth	of the sna	andrel	0.0	
		or there are infill walls or adjacent floors that shorten the column.	ic dopti	or the spa	indioi,	-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.				-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building's	seismic	nerforma	nce	-1.0	$V_{L2} = 0$
	Irregularity	There is another observable sovere vertical inregularity that bovically affects the building's se				-0.5	(Cap at -1.2)
Plan	<u> </u>	egularity: Lateral system does not appear relatively well distributed in plan in either or both d				-0.5	(Cup ut -1.2)
Irregularity, PL2		V1A open front irregularity listed above.)		(00 1101		-0.7	
inegularity, 7 L2		system: There are one or more major vertical elements of the lateral system that are not ort	hononal	to each of	hor	-0.4	
		projections from an interior corner exceed 25% of the overall plan dimension in t				-0.4	
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm				-0.2	
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.	wiutii at			-0.2	$P_{L2} = 0$
		arity: There is another observable plan irregularity that obviously affects the building's seism	io porfor	manaa		-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.	ic perior	nance.		+0.3	(Cup ul -1.1)
Pounding			ī	(Cap total	r	$\frac{10.3}{10}$	
Pounding		eparated from an adjacent structure     The floors do not align vertically within 2 feet.       1% of the height of the shorter of the     One building is 2 or more stories taller than the other stories taller than the stories taller ta		pounding		1.0	
			ier.				
	-			modifiers	al -1.2)	-0.5	
S2 Building		geometry is visible.				-1.0	
C1 Building		rves as the beam in the moment frame.	· /D · · · ·	4 h :		-0.4	
PC1/RM1 Bldg	post-benchn	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending nark or retrofit modifier.)				+0.3	
PC1/RM1 Bldg	The building	has closely spaced, full height interior walls (rather than an interior space with few walls suc	h as in a	warehous	se).	+0.3	
URM	Gable walls					-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.				+1.2	_1 0
Retrofit		sive seismic retrofit is visible or known from drawings.				+1.4	M=
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 1.0			(	Transfer	to Level 1 form
		deterioration or another condition that negatively affects the building's seismic performance:		es 🔳	(		
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	indepen	dent of the	e building	g's score	·
		UCTURAL HAZARDS					
Location		Check "Yes" or "No")	Yes	No		Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	1.00	×		5611	
		vy cladding or heavy veneer.	x			Brick v	/eneer
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	~	x		D-TOK 1	
		unreinforced masonry appendage over exit doors or pedestrian walkways.		×			
		gn posted on the building that indicates hazardous materials are present.	1	×			
		In posted on the building that indicates hazardous materials are present.	+	<u> </u>			

Other observed interior nonstructural falling hazard:

Other observed exterior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended
 Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety ->No Detailed Nonstructural Evaluation required

There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.

Comments:

Interior

х

х

х

FEMA P-154 Data Collection Form

Image: 1       2<							Add	ress:	2003 NE Sha	war St.										
Building Name: Journal of Section 1										5 <mark>R</mark>				i	Zip: <sub>97220</sub>	)				
Use:									-	-										
Latitude:			-	-							gh School	- Student (	Center/Lib	orary						
Still mark       Still mark <td></td> <td>TT</td> <td>-</td> <td></td> <td></td> <td></td> <td>Use</td> <td>: <u> </u></td> <td></td>		TT	-				Use	: <u> </u>												
Screener()::::::::::::::::::::::::::::::::::::						V														
Ho. Stories:       Abore and the set of the set																				
Total Flore Area (sc. ft): seven       Code Year: seven       Code Year: seven         Total Flore Area (sc. ft): seven       Code Year: seven		50				and the second s														
Additions:       None       Yes, Year(s) Built:			1 and		3	-									Year	Built:	<u>1999</u>			
Occupancy:       Asambin:       Commend:       Bitter:       State:::::::::::::::::::::::::::::::::::	The second second second		No. of Concession, Name		These second	-				c. ft.):	54,048				_ Code	Year:	1994 UBC			
Notical Production Provide Production Provide Production Producting Producting Production Production Production Production	and a more that	all			1000	-	S.								-					
Soil Type:       A       B       C       B       C       B		2					Occ	upancy	Indu	ustrial	Office		School		Э			ler		
Hard Arg Dane Soft Soft Soft Soft Soft Soft Soft Soft	B-	and the second		Collinson (			Soil	Type:		ПВ		C T				NK				
Adjacency:       Pounding       Palang Hazards from Talk Adjacent Building         Including Server(N)       Prequisities:       Principe)         Extrior Falling       Unbraced Chimneys       Appendages         Additional sketches or comments on separate page         Comments       Other:         Comments       Other         Second       Second         Second <th>1 10 1</th> <th>- File</th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th>.,,,</th> <th>Hard</th> <th>Avg</th> <th>Den</th> <th>se S</th> <th>tiff S</th> <th>Soft F</th> <th>Poor If</th> <th></th> <th>ите Туре</th> <th>D.</th>	1 10 1	- File				-		.,,,	Hard	Avg	Den	se S	tiff S	Soft F	Poor If		ите Туре	D.		
Image: Second State Stat			-		mar Gara	THE	Geo	logic H	azards:	Liquefac	ction: Ye	s/No/DN	K Lands	slide: Yes	s/No/DNK	Surf. Ru	upt.: Yes/	No/DNK		
Plan (type)         Exterior states with the state of the state o		100		40	Dian	8	Adja	acency:		P	ounding		Falling H	lazards f	rom Talbr	Adjacen	t Building			
Exterior Failing	E .						Irrea	gularitie	s:				rity)		100					
Hazards:          Parapets         Other:		6 delano	o billelo Selve	-		1 and	Exte	erior Fal	lina				/S	🔳 He	avy Clate	ling or H	eavy Ver	neer		
COMMENTS:           COMMENTS:           SKETCH           Comments on separate page           BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1           FEMA BULLOING TYPE         Nonet         Nonet         Nonet         Nonet         SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1           FEMA BULLOING TYPE         Nonet           Nonet         Nonet         Nonet         Nonet         Nonet           Nonet         Nonet         Nonet         Nonet         Nonet         Nonet	Contraction of the second	an al	e raga came	10=	C	3				1 T T L L L L L L L L L L L L L L L L L							,	18 8 1		
SKETCH         Additional sketches or comments on separate page           SKETCH         Additional sketches or comments on separate page           EXACC PROFILERS, AND FILAC LEVEL I SCORE, S, J           FMA BUILDING TYPE         Network         NI         COMMENT         SCORE, MODIFIERS, AND FILAC LEVEL I SCORE, S, J           FMA BUILDING TYPE         Network         NI         COMMENT         NI         NI         COMMENT         NI         NI         NI         NI         NI         NI         NI         NI         NI         NI <th <="" colspan="2" th=""><th>1 Alexand</th><th>10.00</th><th>-</th><th>1-</th><th>110</th><th>and i</th><th></th><th></th><th></th><th></th><th>ther:</th><th></th><th></th><th>201241-1222924</th><th></th><th></th><th></th><th></th></th>	<th>1 Alexand</th> <th>10.00</th> <th>-</th> <th>1-</th> <th>110</th> <th>and i</th> <th></th> <th></th> <th></th> <th></th> <th>ther:</th> <th></th> <th></th> <th>201241-1222924</th> <th></th> <th></th> <th></th> <th></th>		1 Alexand	10.00	-	1-	110	and i					ther:			201241-1222924				
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SLt           FEMA BUILDING TYPE S2         DoNot Krow         W1 W1 W1 W1 W2         W2 S1 S1 S1 S1 S2 S1 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	24.44			10	E	D	-													
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SLt           FEMA BUILDING TYPE S2         DoNot Krow         W1 W1 W1 W1 W2         W2 S1 S1 S1 S1 S2 S1 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	Contraction of the second second			-	D	4	-													
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1           FEMA BUILDING TYPE S2         DoNot Know         W1 W1 W1 W1 W2         W2 S1 S1 S1 S1 S2 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1				13	See	-														
BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1           FEMA BUILDING TYPE S2         DoNot Know         W1 W1 W1 W1 W2         W2 S1 S1 S1 S1 S2 S1 S1 S1 S2 S1 S1 S1 S2 S1 S1 S1 S1 S2 S1 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	CONTRACTOR OF			din i	allow-		ę													
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BASIC SCORE, MODIFIERS, AND FINAL LEVEL 1 SCORE, SL1           FEMA BUILDING TYPE S2         DoNot Know         W1 W1 W1 W1 W2         W2 S1 S1 S1 S1 S2 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S2 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1																				
FEMA BUILDING TYPE S2         DoNot Know         W1         W1A         W2         S1 (MRF)         S2 (MRF)         S3 (MRF)         S4 (MRF)         S5 (MRF)         C1 (MRF)         C2 (MRF)         C1 (MRF)         PC1 (WRF)         PC1 (TU)         PC2 (TU)         PC1 (PD)         PC1 (PD)        <		SKETCH						Addition	al sketch	es or cor	mments of	on separ	ate page	e						
S2         Know         Internet         Know         Internet         Know         Internet         Know         Internet         S2         S2<		E	ASIC	scol	RE, MO	DIFIE	RS, AI	ND FIN	AL LI	EVEL	1 SCO	RE, S	L1							
Severe Vertical Irregularity, V <sub>1.1</sub> -1.2       -1.2       -1.2       -1.0       -1.1       -1.0       -0.8       -0.9       -1.0       -0.9       -0.9       -0.9       -0.9       -0.7       NA         Moderate Vertical Irregularity, V <sub>1.1</sub> -0.7       -0.7       -0.7       -0.7       -0.7       -0.7       -0.7       -0.6       -0.2       -0.4       -0.2       -0.4       -0.2       -0.4       -0.7       -0.1       -0.5       -0.5       -0.5       -0.5       -0.5       -0.5       0.5       0.0       -0.1       -0.5       -0.5       -0.5       0.5       0.3       0.6       0.4       0.6       0.6       0.6       0.5       0.		0010000	W1A	W2				(RC	(URM			(URM		PC2			URM	МН		
Moderate Vertical Irregularity, V⊥:       -0.7       -0.7       -0.6       -0.6       -0.5       -0.6       -0.4       -0.6       -0.5       0.5						_				ſ										
Plan Irregularity, PL:       -1.1       -1.0       -1.0       -0.8       -0.7       -0.6       -0.8       -0.5       -0.7       -0.6       -0.7       -0.6       -0.7       -0.6       -0.7       -0.6       -0.7       -0.6       -0.7       -0.6       -0.7       -0.1       -0.5       -0.3       -0.5       -0.5       0.0       -0.1         Post-Benchmark       1.6       1.9       2.2       1.4       1.4       1.1       1.9       NA       1.9       2.1       NA       2.0       2.4       2.1       2.1       NA       1.2         Soil Type A or B       0.1       0.3       0.5       0.4       0.6       0.1       0.6       0.5       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.3       0.4       0.5       0.3       0.3       0.4       0.5       0.3       0.3       0.4       0.5       0.3	<b>°</b> ,																			
Post-Benchmark       1.6       1.9       2.2       1.4       1.4       1.1       1.9       NA       1.9       2.1       NA       2.0       2.4       2.1       2.1       2.1       NA       1.2         Soil Type A or B       0.1       0.3       0.5       0.4       0.6       0.1       0.6       0.5       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.1       0.01       0.0       <	• •																			
Soil Type A or B       0.1       0.3       0.5       0.4       0.6       0.1       0.6       0.5       0.4       0.5       0.3       0.6       0.4       0.5       0.3       0.5       0.3       0.3       0.3       0.3       0.3       0.3       0.3       0.3       0.3       0.3       0.3       0.4       0.5       0.5       0.4 <td>Pre-Code</td> <td>-1.1</td> <td>-1.0</td> <td>-0.9</td> <td>-0.6</td> <td>-0.6</td> <td>-0.8</td> <td>-0.6</td> <td>-0.2</td> <td>-0.4</td> <td>-0.7</td> <td>-0.1</td> <td>-0.5</td> <td>-0.3</td> <td>-0.5</td> <td>-0.5</td> <td>0.0</td> <td>-0.1</td>	Pre-Code	-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1		
Soil Type E (1-3 stories)       0.2       0.2       0.1       -0.2       -0.4       0.2       -0.1       -0.4       0.0       0.0       -0.2       -0.3       -0.1       -0.1       -0.2       -0.4       NA         Minimum Score, SMM       1.1       0.9       0.7       0.5       0.5       0.6       -0.5       -0.7       -0.3       NA       -0.4       -0.5       -0.7       -0.3       NA       -0.4       -0.5       -0.6       -0.2       NA         Minimum Score, SMM       1.1       0.9       0.7       0.5       0.5       0.5       0.3       0.3       0.2       0.2       0.3       0.2       1.0         FINAL LEVEL 1 SCORE, SL1 > SMIN: 2.0         Correction:       Partial       All Sides       Aerial       Aerial       Aerial       Are There Hazards That Trigger A       Detailed Structural Evaluation Required?       Pounding potential (unless SL2 > Cut-off, if known)       Pes, score less than cut-off       Yes, onstructural Evaluation Required?       Pes, score less than cut-off       Yes, onstructural hazards identified that should be evaluated       No         DOGAMI       Geologic hazards or Soil Type F       Significant damage/deterioration to the structural system       Yes, nonstructural hazards identified that should be evaluated <td></td>																				
Soil Type E (> 3 stories)       -0.3       -0.6       -0.9       -0.6       NA       -0.6       -0.4       -0.5       -0.7       -0.3       NA       -0.4       -0.5       -0.0       -0.6       -0.2       NA         Minimum Score, SMN       1.1       0.9       0.7       0.5       0.5       0.6       0.5       0.3       0.3       0.3       0.2       0.2       0.3       0.3       0.2       1.0         FINAL LEVEL 1 SCORE, SL1 ≥ SMNN: 2.0         OTHER HAZARDS         Are There Hazards That Trigger A Detailed Structural Evaluation?       Pounding potential (unless SL2 > cut-off, if known)       ACTION REQUIRED       Detailed Structural Evaluation Required?         Beologic Hazards Source:       Assumed       Soil Type Source:       Assumed       Pounding potential (unless SL2 > cut-off, if known)       Pounding potential (unless SL2 > cut-off, if known)       Pounding chazards or Soil Type F       Significant damage/deterioration to the structural system       Postailed Nonstructural Evaluation Recommended? (check one)       Postailed evaluation is not necessary       Postailed evaluated       No, nonstructural hazards identified       DNK																				
Minimum Score, SMIN       1.1       0.9       0.7       0.5       0.5       0.6       0.5       0.3       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.3       0.2       0.2       0.3       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.2       0.3       0.2       0.3       0.2       0.3       0.2       0.3       0.2       0.3       0.2       0.3       0.2       0.3       0.3       0.3       0.2       0.3       0.2       0.3																				
EXTENT OF REVIEW       OTHER HAZARDS       ACTION REQUIRED         Exterior:       Partial       All Sides       Aerial         Interior:       None       Visible       Entered         Drawings Reviewed:       Yes       No       Detailed Structural Evaluation?       Pounding potential (unless SL2> cut-off, if known)       Pounding potential (unless SL2> cut-off, if known)       Yes, score less than cut-off       Yes, other hazards present         Contact Person:       DogAMI       Geologic hazards or Soil Type F       Significant damage/deterioration to the structural system       No       Detailed Nonstructural hazards identified that should be evaluated         Yes, Final Level 2 Score, SL2       1.0       No       Yes       No         Nonstructural hazards?       Yes       No       No       No	Minimum Score, S <sub>MIN</sub>	1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0		
Exterior: Partial All Sides Aerial   Interior: None Visible Entered   Drawings Reviewed: Yes No   Soil Type Source: Assumed   Assumed Pounding potential (unless SL2 > cut-off, if known)   Geologic Hazards Source: DocAMI   Contact Person: DocAMI   BYes, Final Level 2 Score, SL2 1.0   Yes No   Nonstructural hazards? Yes      Are There Hazards That Trigger A Detailed Structural Evaluation? Pounding potential (unless SL2 > cut-off, if known) Falling hazards from taller adjacent building Significant damage/deterioration to the structural system    Detailed Structural Evaluation Required? Yes, score less than cut-off Yes, other hazards present Biologic hazards or Soil Type F Significant damage/deterioration to the structural system Non structural hazards identified that should be evaluated No, nonstructural hazards exist that may require mitigation, but a detailed evaluation is not necessary No, no nonstructural hazards identifiedDNK	FINAL LEVEL 1 SCORE, SL1 ≥	: S <sub>MIN</sub> : 2.0																		
Interior:       None       Visible       Entered         Drawings Reviewed:       Yes       No         Soil Type Source:       Assumed       Pounding potential (unless SL2> cut-off, if known)       Yes, score less than cut-off         Geologic Hazards Source:       DocaMI       Falling hazards from taller adjacent building       Yes, other hazards present         Contact Person:       Falling hazards or Soil Type F       Significant damage/deterioration to the structural system       Detailed Nonstructural hazards identified that should be evaluated         Image: Yes, Final Level 2 Score, SL2       1.0       No       Detailed evaluation is not necessary         Nonstructural hazards?       Yes       No       No, no nonstructural hazards identified id not should be cultified	EXTENT OF REVIEW				OTHEF	R HAZ	ARDS			АСТ	ION R	EQUII	RED							
Drawings Reviewed:       Yes       No         Soil Type Source:       Assumed         Geologic Hazards Source:       DOGAMI         Contact Person:       Falling hazards from taller adjacent building         LEVEL 2 SCREENING PERFORMED?       Geologic hazards or Soil Type F         Yes, Final Level 2 Score, SL2       No         Nonstructural hazards?       Yes         Yes       No		=							4					•						
Soil Type Source:       Assumed       Image: Cut-off, if known)       Image: Cut-off, if known)         Geologic Hazards Source:       DOGAMI       Image: Cut-off, if known)       Image: Cut-off, if known)         Contact Person:       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         LEVEL 2 SCREENING PERFORMED?       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         LEVEL 2 SCREENING PERFORMED?       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         LEVEL 2 SCREENING PERFORMED?       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)       Image: Cut-off, if known)         Image: Cut-off, if known (un-off, if known)	Interior: None		🔳 Ent	erea											or other b	uilding				
Geologic Hazards Source:       DOGAMI       Falling hazards from taller adjacent building       Image: No building         Contact Person:       Geologic hazards or Soil Type F       Geologic hazards or Soil Type F       Significant damage/deterioration to the structural system       Detailed Nonstructural hazards identified that should be evaluated         Image: Yes, Final Level 2 Score, SL2       1.0       No       No       No         Nonstructural hazards?       Yes       No       No       No, no nonstructural hazards identified       DNK	Drawings Reviewed: 🔳 Yes							IIESS SL2	-											
LEVEL 2 SCREENING PERFORMED?       Geologic hazards or Soil Type F       Yes, Final Level 2 Score, SL2 1.0       No         Nonstructural hazards?       Yes       No       No	Soil Type Source:	Assumed																		
LEVEL 2 SCREENING PERFORMED?       Significant damage/deterioration to the structural system       Yes, Final Level 2 Score, SL2 1.0       Significant damage/deterioration to the structural system         Nonstructural hazards?       Yes       No	Soil Type Source: Geologic Hazards Source:		I			0	us from ta	aller adja	cent		0									
Image: Provide the structural system          Image: Provide the structural system       Image: Provide the structural system         Image: Provide the structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system         Image: Non structural system       Image: Provide the structural system <td< th=""><th>Soil Type Source: Geologic Hazards Source:</th><th></th><th>I</th><th></th><th>buildi</th><th>ng</th><th></th><th></th><th></th><th></th><th></th><th>tructura</th><th>l Evalua</th><th>ation Re</th><th>commen</th><th>ded? (ch</th><th>eck one)</th><th></th></td<>	Soil Type Source: Geologic Hazards Source:		I		buildi	ng						tructura	l Evalua	ation Re	commen	ded? (ch	eck one)			
Nonstructural hazards?     Yes     No	Soil Type Source: Geologic Hazards Source: Contact Person:	DOGAM			buildi	ng ogic haz	ards or S	oil Type	F	Detail	<b>ed Nons</b> es, nonsi	ructural	hazards	identified	d that sho	uld be ev	/aluated			
Where information cannot be verified, screener shall note the following: EST = Estimated or unreliable data <u>OR</u> DNK = Do Not Know	Soil Type Source: Geologic Hazards Source: Contact Person:		D?	0	buildi	ng ogic haz icant da	ards or S image/de	oil Type	F	Detail	<b>ed Nons</b> es, nonst o, nonstr	ructural uctural h	hazards azards e	identified exist that	d that sho may requ	uld be ev	/aluated			
	Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING P Yes, Final Level 2 Score, S <sub>L2</sub>	DOGAM ERFORME 1.0	<b>D?</b> □ N		buildi	ng ogic haz icant da	ards or S image/de	oil Type	F	Detail	ed Nons es, nonst o, nonstr etailed ev	ructural uctural h aluation	hazards azards e is not ne	identified exist that ecessary	d that sho may requ	uld be ev uire mitig	/aluated			
Legend: MRF = Moment-resisting frame RC = Reinforced concrete URM INF = Unreinforced masonry infill MH = Manufactured Housing FD = Flexible diaphragm BR = Braced frame SW = Shear wall TU = Tilt up LM = Light metal RD = Rigid diaphragm	Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING P Yes, Final Level 2 Score, SL2 Nonstructural hazards?	DOGAM ERFORME 1.0 es	<b>D?</b> □ N □ N	lo	buildi Geok Signi the si	ng ogic haz icant da ructural	ards or S amage/de system	oil Type terioratic	F in to	Detail	ed Nons es, nonst o, nonstr etailed ev o, no nor	ructural uctural h aluation structura	hazards azards e is not ne al hazare	identified exist that ecessary ds identif	d that sho may requ ied [	uld be ev uire mitig	/aluated			

FEMA P-154 Data Collection Form

## Level 2 (Optional) B HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose High School - Student Center/Library	Final Level 1 Score:	$S_{L1} = 2.0$	(do not consider S <sub>MIN</sub> )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 2.0$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE					
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	e other.			-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building		er.		-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.				-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment fra	me.		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use				-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov					
	maximum)	length of the building.				-1.2	
	1	Non-W1 building: Length of lateral system at any story is less than 50% of that at story a	bove or h	eight of an	ιγ		
		story is more than 2.0 times the height of the story above.		Ū		-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story al	ove or he	eight		
		of any story is between 1.3 and 2.0 times the height of the story above.	-		-	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	/ below ca	ausing the	•		
		diaphragm to cantilever at the offset.				-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower storie	es.			-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the ele				-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in	the latera	l system h	nave		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of t	he depth	of the spar	ndrel,		
		or there are infill walls or adjacent floors that shorten the column.				-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.				-0.5	0
	Other	There is another observable severe vertical irregularity that obviously affects the building				-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se				-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or both d	lirections.	(Do not			
Irregularity, PL2		V1A open front irregularity listed above.)				-0.7	
		system: There are one or more major vertical elements of the lateral system that are not or			her.	-0.4	
	Reentrant co	orner: Both projections from an interior corner exceed 25% of the overall plan dimension in	that direc	ion.		-0.4	
		pening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	n width at	that level.		-0.2	0
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.				-0.4	$P_{L2} = 0$
		arity: There is another observable plan irregularity that obviously affects the building's seisn	nic perfori	nance.		-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.				+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		10	
		1% of the height of the shorter of the One building is 2 or more stories taller than the ot	her.	pounding		-1.0	
		adjacent structure and: The building is at the end of the block.		modifiers a	at -1.2)	-0.5	
S2 Building		eometry is visible.				-1.0	
C1 Building		rves as the beam in the moment frame.				-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bendin	g. (Do no	t combine	with	+0.3	
		nark or retrofit modifier.)					
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls such	ch as in a	warehous	se).	+0.3	
URM	Gable walls					-0.4	
MH		pplemental seismic bracing system provided between the carriage and the ground.				+1.2	M=
Retrofit		ive seismic retrofit is visible or known from drawings.				+1.4	IVI =
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 1.0			(7)	ransfer	to Level 1 form)
There is observat	ole damage or	deterioration or another condition that negatively affects the building's seismic performance	: 🗌 Y	es 🔳 M			
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	l indepen	dent of the	e building'	s score.	
			V	N-		<b>C</b>	
Location		Check "Yes" or "No")	Yes	No		Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		×			
		vy cladding or heavy veneer.	х			Brick v	eneer
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x			
		Inreinforced masonry appendage over exit doors or pedestrian walkways.		×			
		gn posted on the building that indicates hazardous materials are present.		×			
		Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.	+	X			

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Potential nonstructural bazards with significant threat to occupant life safety 

Detailed Nonstructural Evaluation recommended

■ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation required

Comments:

Interior

х

FEMA P-154 Data Collection Form

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									Portland, C	Pic.					Zip: <sub>97220</sub>			
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r			-			-			5.55313049				S₁:	<u>.</u>		0.269		
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					-				: Abov	-						Built:		EST
						-	Tota	al Floor	Area (se	. ft.):	56 415	_	orau	. 1	Code		1999 • 1994 UBC	
				and the second second	-	-2	Add	itions:	N N	one E	Yes, Y	rear(s) B	uilt:		-		1994 000	
		Real Property				-	Occ	upancy	: Ass	embly	Comme	rcial	Emer. S	Services	+i:	storic	Shelt	er
	- COL	12/10	and make	-		120				strial	Office		School			vernmen	t	
					Martin Contraction			_	Utili		Wareho			ntial, #U				(11)) - <u>1</u>
					and a	L.	Soil	Type:	Hard Rock	Avg Rock	Den So	se S	tiff S	Soft F		<b>IK</b> DNK, assu	ume Type	D.
					E Can	mail	Geo	logic H		1.0011000					s/No/DNK	Surf. Ru	int : Yes/	No/DNK
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FEMA BUILDING TYPE RM1	DoNot Know	W1	W1A	W2	S1 (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	<b>S4</b> (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
Basic Score		3.6	3.2	2.9	2.1	2.0	2.6	2.0	1.7	1.5	2.0	1.2	1.6	1.4		1.7	1.0	1.5
Severe Vertical Irregularity, VL1		-1.2 -0.7	-1.2 -0.7	-1.2 -0.7	-1.0 -0.6	-1.0 -0.6	-1.1 -0.7	-1.0 -0.6	-0.8 -0.5	-0.9 -0.5	-1.0 -0.6	-0.7 -0.4	-1.0 -0.6	-0.9 -0.5	-0.9 -0.5	-0.9 -0.5	-0.7 -0.4	NA NA
Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1		-1.1	-1.0	-1.0	-0.0	-0.0	-0.9	-0.7	-0.5	-0.6	-0.8	-0.4	-0.7	-0.5	-0.5	-0.5	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	-0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark		1.6	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories) Soil Type E (> 3 stories)		0.2	0.2 -0.6	0.1 -0.9	-0.2 -0.6	-0.4 -0.6	0.2 NA	-0.1 -0.6	-0.4 -0.4	0.0 -0.5	0.0 -0.7	-0.2 -0.3	-0.3 NA	-0.1 -0.4	-0.1 -0.5	-0.1 -0.6	-0.2 -0.2	-0.4 NA
Minimum Score, S <sub>MIN</sub>		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL		1.7																
	$1 \ge S_{MIN}$	1.7																
EXTENT OF REVIEW	.1 ≥ Smin:	1.7			OTHER	HAZ	ARDS	i		ACT	ION R	EQUIF	RED					
Exterior: Derti	al 🔳 /	All Sides	🗌 Aer		Are There	Hazaro	Is That 1	Frigger /	4			-		n Require	ed?			
Exterior:	al 🔳 / e 🔲 \	All Sides /isible	Aer			Hazaro	Is That 1	Frigger /	A	Detail	ed Struc	tural Ev	aluatior	•	ed? or other bu	ilding		
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Exterior:       Parti         Interior:       Nond         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       LEVEL 2 SCREENING	al I / P I A	All Sides /isible No ssumed DOGAM	D?	ered	Are There Detailed S Pound cut-off Falling buildir Geolo Signifi	Hazaro tructur ing pote , if know hazaro g gic haza cant da	Is That 1 al Evalu ential (ur vn) Is from ta ards or S mage/de	Trigger A ation? Iless S <sub>L2</sub> aller adja	> cent F	Detail           ☐         Ye           ☐         Ne           Detaile         Ye	ed Struc es, unkno es, score es, other o ed Nons es, nonst	tural Ev own FEM less tha hazards tructura	aluation IA buildin n cut-off present I Evalua hazards	ng type o ation Rea	or other bu	led? (chi uld be ev	aluated	a
Exterior:       Parti         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:	al () / = () / A PERF( 2 ().7	All Sides /isible No ssumed DOGAM	Ente	o ered	Are There Detailed S Pound cut-off Falling buildir Geolo Signifi	Hazaro tructur ing pote , if know hazaro g gic haza cant da	Is That T al Evalu ential (ur vn) Is from ta ards or S	Trigger A ation? nless S <sub>L2</sub> aller adja coil Type	> cent F	<b>Detail</b> Ye Ye Ye No Detail Ye Mo de	ed Struc es, unkno es, score es, other o ed Nons es, nonst o, nonstru tailed ev	tural Ev own FEM less tha hazards tructural ructural h uctural h aluation	aluatior IA buildii n cut-off present I Evalua hazards azards is not ne	ng type of ation Real identified exist that eccessary	or other bu comment d that show may requ	led? (chi uld be ev ire mitiga	aluated	а
Exterior: Parti Interior: Nonu Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING I Yes, Final Level 2 Score, Su Nonstructural hazards?	al perfection perfection 2 0.7 Yes	All Sides /isible No bogamed DOGAME	Ente	o	Are There Detailed S Pound cut-off Falling buildir Geolo Signifi the str	Hazaro tructur ing pote i f knov hazaro g gic haza cant da uctural	Is That <sup>T</sup> al Evalu ential (ur vn) Is from ta ards or S mage/de system	<b>Frigger A</b> ation? aless S <sub>L2</sub> aller adja oil Type terioratic	> cent F on to	Detaile	ed Struc es, unkno es, score es, other o ed Nons es, nonstru- tailed ev o, no non	tural Ev own FEM less tha hazards tructural uctural h aluation ustructura	aluatior IA buildii n cut-off present I Evalua hazards azards azards as not ne al hazard	ng type of ation Red identified exist that ecessary ds identif	commence commence d that show may requi	led? (chi uld be ev ire mitiga ] DNK	aluated	а
Exterior: Parti Interior: None Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING Yes, Final Level 2 Score, Sr Nonstructural hazards?	al perfection perfection 2 0.7 Yes	All Sides /isible No bogame DOGAME	Ente     D?     N     N     N     N     N     N     N     N	o o d, scre	Are There Detailed S Pound cut-off Falling buildir Geolo Signifi the str	Hazaro tructur ing pote , if knov l hazaro g gic haza cant da uctural note th	Is That T al Evalu ential (ur vn) Is from ta ards or S mage/de system	Trigger A ation? nless SL2 aller adja oil Type terioratic	> cent F on to	Detail Pre- Pre- Detail Detail Detail No de No de No de No de Detail	ed Struc es, unkno es, score es, other o ed Nons es, nonstru- tailed ev o, no non r unrelia	tural Ev own FEN less tha hazards tructural nuctural h aluation astructura ble data	aluatior IA buildii n cut-off present I Evalua hazards azards azards a is not ne al hazard <u>OR</u>	ng type of ation Red identified exist that ecessary ds identif	commend d that sho may requ ied [ Do Not Kr	led? (chi uld be ev ire mitiga ] DNK ow	aluated	

FEMA P-154 Data Collection Form

### Level 2 (Optional) C HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose High School - Auditorium, Gym, Pool	Final Level 1 Score:	$S_{L1} = 1.7$	(do not consider S <sub>MIN</sub> )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.7$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic	Statement (	If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to t	he other.		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the buildin		ier.	-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening witho	ut a steel m	noment fram	e,	
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use	e 16' of wal	l minimum).	-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking)	over at leas	st 50% of the		
	maximum)	length of the building.			-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story	above or h	eight of any		
		story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that	t at story a	bove or heig		
	Outhout	of any story is between 1.3 and 2.0 times the height of the story above.			-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the store the second structure of the secon	ry below c	ausing the	10	
		diaphragm to cantilever at the offset.			-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower sto			-0.5	
	Chart	There is an in-plane offset of the lateral elements that is greater than the length of the e			-0.3	
	Short Column/	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line i	n the latera	i system nav	-0.5	
	Pier	height/depth ratios less than 50% of the nominal height/depth ratio at that level. C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of	the depth	of the energy		
	FIEI	or there are infill walls or adjacent floors that shorten the column.	the depth	or the spand	-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	
	Other	There is a spin even at one of the noon evens of at the tool. There is another observable severe vertical irregularity that obviously affects the buildin	n'e epiemic	nerformanc		$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that obviously anects the building's			-0.5	(Cap at -1.2)
Plan	· · ·	egularity: Lateral system does not appear relatively well distributed in plan in either or both			0.0	(cup ut 1.2)
Irregularity, PL2		V1A open front irregularity listed above.)		100 1101	-0.7	
in ogalanty, r 22		system: There are one or more major vertical elements of the lateral system that are not of	rthogonal	to each othe		
		prner: Both projections from an interior corner exceed 25% of the overall plan dimension in			0.4	
	Diaphragm c	pening: There is an opening in the diaphragm with a width over 50% of the total diaphrag	m width at	that level.	-0.2	
	C1, C2 build	ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = 0$
		arity: There is another observable plan irregularity that obviously affects the building's seis	mic perfor	mance.	-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.			+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.	Î	(Cap total	(10)	ĺ
Ū	by less than	1% of the height of the shorter of the One building is 2 or more stories taller than the	other.	pounding	-1.0	
	building and	adjacent structure and: The building is at the end of the block.	1	modifiers at	-1.2) -0.5	
S2 Building	"K" bracing g	eometry is visible.			-1.0	
C1 Building	Flat plate se	rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bend	ng. <i>(Do no</i>	t combine w	ith +0.3	
		nark or retrofit modifier.)				
PC1/RM1 Bldg	U	has closely spaced, full height interior walls (rather than an interior space with few walls s	uch as in a	warehouse		
URM	Gable walls				-0.4	
MH		pplemental seismic bracing system provided between the carriage and the ground.			+1.2	M=
Retrofit		ive seismic retrofit is visible or known from drawings.			+1.4	M=
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 0.7			(Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance				
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is requir	ed indepen	dent of the k	ouilding's score	
OBSEDVADI		UCTURAL HAZARDS				
Location		Check "Yes" or "No")	Yes	No	Com	ment
Exterior		Inbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	103	x	0011	
		vy cladding or heavy veneer.		x		
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x		
		inreinforced masonry appendage over exit doors or pedestrian walkways.		x		
		gn posted on the building that indicates hazardous materials are present.		x		
		ler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney		x		
		and exterior popertuatural falling bezard:	- I			

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended
Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety ->No Detailed Nonstructural Evaluation required

Comments:

Interior

х

## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

# Level 1 D HIGH Seismicity

							Add	ress:	2003 NE Sha	ar St.								
									Portland, C						Zip: <sub>97220</sub>	0		
and the second second							Buil	ding Na	me: _p	rkrose Hi	gh School	Band/Mu	sic					
	A Part						Use						lonelt	udo:				
			1	~											122,5401505			
NY MARCHEN				-											e: _ <sub>8/16</sub>			
		-	-	Im	12	No. Comment	-	0.000	KNT									
						3a	No.	Stories	: Abov	Grade	: <u>1</u>	_ Belo	w Grade	e: <u>o</u>	- Year	r Built:	1999	EST
								litions:	Area (se	. π.):	17,320 Yes, Y	(oor(e) B	h sile.		- Code	e Year:	1994 UBC	_
					1 78	an Phil				embly	Comme			Services		istoric	Shell	lor
							Ucc	upancy		strial	Office Wareho		School	ntial, #U	Э	overnmer		ter
		NT.	~		MA	et.	Soil	Туре:	Hard Rock	Avg Rock	Den So	se S	D C	Boft P	_F D	NK DNK, ass	ume Type	D.
			-		1	1	Geo	logic H	azards:	Liquefac	ction: Yes	s/No/DN	K Lands	lide: Yes	No/DNK	Surf. Ru	upt.: Yes/	No/DNK
The second second		100	-	Ser.	12 to 1	9	Adja	acency:		P	ounding		Falling H	lazards fr	rom Taller	Adjacen	t Building	1
E	1	1						gularitie			ertical (ty an (type)		rity)					
Line	AN .	20 an anas	uligia Salaa	111	C	1		erior Fa ards:	lling		nbraced arapets		/S		avy Clado pendages		eavy Ver	neer
	1		-	F	- Bard	and a		MMENT			ther:							
			NERNANS	A	B	i de la	eren St											
	SKE	TCH			alles column				al sketch									
					RE, MO	-		-		-								1
FEMA BUILDING TYPE S2	DoNot Know	W1	W1A	W2	<b>S1</b> (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	<b>S4</b> (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	мн
Basic Score		3.6	3.2	2.9	2.1	20		2.0	1.7	1.5	2.0	1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$		-1.2 -0.7	-1.2 -0.7	-1.2 -0.7	-1.0 -0.6	-1.0 -0.6	-1.1 -0.7	-1.0 -0.6	-0.8 -0.5	-0.9 -0.5	-1.0 -0.6	0.7 0.4	-1.0 -0.6	-0.9 -0.5	-0.9 -0.5	-0.9 -0.5	-0.7 -0.4	NA NA
Plan Irregularity, $P_{L1}$		-0.7	-1.0	-1.0	-0.8	-0.7	-0.9	-0.7	-0.5	-0.6	-0.8	-0.4	-0.7	-0.6	-0.7	-0.5	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9	-0.6	-0.6	-0.8	-0.6	-0.2	0.4	-0.7	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark		1.6	1.9	2.2	1.4	1.4	1.1	1.9	NA	1.9	2.1	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories) Soil Type E (> 3 stories)		0.2 -0.3	0.2 -0.6	0.1 -0.9	-0.2 -0.6	-0.4 -0.6	0.2 NA	-0.1 -0.6	-0.4 -0.4	0.0	0.0 -0.7	0.2	-0.3 NA	-0.1 -0.4	-0.1 -0.5	-0.1 -0.6	-0.2 -0.2	-0.4 NA
Minimum Score, S <sub>MIN</sub>		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 1 SCORE, SL1	≥ S <sub>MIN</sub> :	2.0																
	_				OTHE						ION R	-						
Exterior: Partia Interior: None Drawings Reviewed: Yes Soil Type Source:		/isible No sumed	Aeri Ente		cut-o	Structur ding pot	<b>ral Evalu</b> tential (ur wn)	ation?	>		es, unkno es, score es, other	wn FEM less tha	IA buildi n cut-off	0.11	ed? or other b	uilding		
Geologic Hazards Source:		DOGAM		-+		0	ds from t	aller adja	cent	N N								
Contact Person:					build		ards or S	oil Type	F						commen		,	
LEVEL 2 SCREENING	PERFC	ORME	D?		🗌 Signi	ficant da	amage/de								that sho			ta
Yes, Final Level 2 Score, SL2	1.0		🗆 N	0	the s	tructural	system				o, nonstri etailed ev				may requ	ure mitig	auon, Dut	ıa
	Yes		🗌 N	0										ds identifi				
Where infor	mation c	annot b	e verifie	d, scre	ener sha	ll note ti	he follow	ving: E	ST = Esti	mated o	r unrelia	ble data	<u>OR</u>	DNK = D	o Not Ki	now		
Legend: MRF = M	oment-resis	sting fram			inforced co near wall	ncrete		URM INF TU = Tilt u	= Unreinfo	rced mas	onry infi <b>ll</b>		= Manufa = Light m	actured Ho etal		D = Flexib D = Rigid	le diaphra	

FEMA P-154 Data Collection Form

## Level 2 (Optional) D HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose High School - Band/Music	Final Level 1 Score:	$S_{L1} = 2.0$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, V <sub>L1</sub> = 0	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 2.0$	

		RS TO ADD TO ADJUSTED BASELINE SCORE If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Vac	Subtotals
Topic					Yes	Subtotais
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the			-1.2	-
rregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building	to the oth	ier.	-0.3	•
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	•
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without				
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use '			-1.2	•
	(circle one maximum)	W1A building open front: There are openings at the ground story (such as for parking) ov	er at leas	st 50% of the	10	
	maximumi	length of the building. Non-W1 building: Length of lateral system at any story is less than 50% of that at story al		alabt of any	-1.2	4
		story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a of any story is between 1.3 and 2.0 times the height of the story above.	at story al	bove or height	t -0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	below c	ausing the		
		diaphragm to cantilever at the offset.		0	-1.0	
	1	Vertical elements of the lateral system at upper stories are inboard of those at lower stories	es.		-0.5	
	1	There is an in-plane offset of the lateral elements that is greater than the length of the ele			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in		l system have	)	
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.		•	-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	ne depth	of the spandro	el,	
		or there are infill walls or adjacent floors that shorten the column.	•		-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building's	s seismic	performance.	-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se	ismic per	formance.	-0.5	(Cap at -1.2
Plan	Torsional irre	egularity: Lateral system does not appear relatively well distributed in plan in either or both d	irections.	. (Do not		
Irregularity, PL2		V1A open front irregularity listed above.)			-0.7	
	Non-parallel	system: There are one or more major vertical elements of the lateral system that are not ort	hogonal	to each other.	-0.4	
		orner: Both projections from an interior corner exceed 25% of the overall plan dimension in t			-0.4	
	Diaphragm of	opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	width at	that level.	-0.2	0
	C1, C2 build	ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = 0$
	Other irregu	arity: There is another observable plan irregularity that obviously affects the building's seism	ic perfor	mance.	-0.7	(Cap at -1.1,
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.			+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total	$\bigcirc$	
		1% of the height of the shorter of the One building is 2 or more stories taller than the other	ner.	pounding	-1.0	
		adjacent structure and: The building is at the end of the block.		modifiers at -1	.2) -0.5	
S2 Building		eometry is visible.			-1.0	
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending nark or retrofit modifier.)	g. (Do no	t combine with	h +0.3	
PC1/RM1 Bldg	The building	has closely spaced, full height interior walls (rather than an interior space with few walls suc	h as in a	warehouse).	+0.3	]
URM	Gable walls				-0.4	
MH	There is a su	upplemental seismic bracing system provided between the carriage and the ground.			+1.2	_1.0
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	M=0
FINAL LEVEL	2 SCORE.	$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 1.0			(Transfer	to Level 1 forn
		deterioration or another condition that negatively affects the building's seismic performance		es 🔳 No	(	
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	lindepen	dent of the bu	ilding's score	
OBSERVABL	E NONSTR	UCTURAL HAZARDS				
Location	Statement (	Check "Yes" or "No")	Yes	No	Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		х		
	There is hea	vy cladding or heavy veneer.		х		
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	1	x		
		unreinforced masonry appendage over exit doors or pedestrian walkways.		x		
		gn posted on the building that indicates hazardous materials are present.	1	x		
	<b>T</b> I 1 1		1	1 1		

Other observed interior nonstructural falling hazard:

Other observed exterior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Potential nonstructural hazards with significant threat to occupant life safety ->Detailed Nonstructural Evaluation recommended
 Nonstructural hazards identified with significant threat to occupant life safety ->But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety ->No Detailed Nonstructural Evaluation required

There is a taller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.

Comments:

Interior

х

х

х

## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 E HIGH Seismicity

						Add	ress:	2003 NE Sha	ər St.								
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And the second		-				Buil	ding Na	me:	rkrose Hi	gh School -	Fine Arts						
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			New	and the second	-	Add	itions:	N	one [	] Yes, Y	'ear(s) B	Built:					
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-						Soil	Туре:	<b>□A</b> Hard	<b>□B</b> Avg	Dens	se S	tiff	Soft I	Poor If	DNK DNK, ass	ume Type	D.
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		-	-	RE, MO		RS, AI	ND FIN	AL LE	VEL	1 SCO	RE, S	L1		RM1	RM2	URM	мн
C2	DoNot W1 Kaow	W1A	W2	S1 (MRF)	<b>S2</b> (BR)	RS, AN	ND FIN S4 (RC SW)	S5 (URM INF)	VEL · C1 (MRF)	1 SCO C2 (SW)	RE, S, C3 (URM INF)	L1 PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
C2 Basic Score	DoNot W1 Kiow 3.6	W1A	W2	\$1 (MRF) 2.1	S2 (BR)	RS, AN S3 (LM) 2.6	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	<b>VEL</b> C1 (MRF) 1.5	1 SCO C2 (SW) 2.0	C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
C2	DoNot W1 Kaow	W1A	W2	S1 (MRF)	<b>S2</b> (BR)	RS, AN	ND FIN S4 (RC SW)	S5 (URM INF)	VEL <sup>·</sup> C1 (MRF)	1 SCO C2 (SW)	RE, S, C3 (URM INF)	L1 PC1 (TU)	PC2	(FD)	(RD)		
C2 Basic Score Severe Vertical Irregularity, VL1	DoNot W1 Kiow 3.6 -1.2	W1A 3.2 -1.2	W2 2.9 -1.2	<b>S1</b> (MRF) <b>2.1</b> -1.0	S2 (BR) 2.0 -1.0	RS, AN S3 (LM) 2.6 -1.1	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	<b>VEL</b> (MRF) 1.5 -0.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8	RE, S C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code	DoNot W1 Kiow 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0	W2 2.9 -1.2 -0.7 -1.0 -0.9	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6	S2 (BR) 2.0 -1.0 -0.6 -0.7 -0.6	<b>RS, AN</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6	<b>IAL LE</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4	<b>C2</b> (SW) <b>20</b> -1.0 -0.6 -0.8 -0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	<b>1.5</b> NA NA NA -0.1
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6	<b>W1A</b> 32 -1.2 -0.7 -1.0 -1.0 1.9	W2 2.9 -1.2 -0.7 -1.0 -0.9 2.2	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, AN</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9	<b>IAL LE</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9	<b>C2</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>26</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4	<b>1 SCO</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories)	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	W2 2.9 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>26</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4	<b>1 SCO</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories)	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	<b>S4</b> (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, Smin	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	<b>S4</b> (RC SW) <b>20</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMMN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior:  Partial	DoNot Know W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 ≥ Smiw: 1.3	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF) 21 -1.0 -0.6 -0.8 -0.6 -0.8 -0.6 1.4 -0.2 -0.6 0.5 OTHER Are There	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>CHAZ</b>	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.1 0.2 NA 0.6 CARDS ds That 1	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.1           -0.6         0.5	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 0.5 -0.4 -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           0.4           1.9           0.4           0.05           0.3	C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ None	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -0.7           -0.7         -1.1           -0.7         -1.1           -0.3         1.1           2         -0.3           1.1         1.1           2         -0.3           1.1         1.1           2         -0.3           1.1         1.1           2         NMV:           1.3         All Side	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF) 221 -1.0 -0.6 -0.8 -0.6 1.4 -0.2 -0.6 0.5 OTHER	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>CHAZ</b>	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.1 0.2 NA 0.6 CARDS ds That 1	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.1           -0.6         0.5	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 0.5 -0.4 -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, unkno	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev. wn FEW	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio IA build	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 € EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes	DoNot Know W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 ≥ Smiw: 1.3	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>CHAZ</b> <b>CHAZ</b>	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T al Evalu ential (un	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           0.5         0.5	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 0.5 -0.4 -0.5	VEL         C1         (MRF)         1.5         -0.9         -0.5         -0.64         -0.9         -0.5         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struc: es, unkno es, score	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wyn FEM less tha	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 -0.7 -0.5 -0.5 -0.5 -0.7 -0.5 -0.7 -0.5 -0.5 -0.5 -0.7 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 Pred?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ None	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.6           0.2         -0.3           1.1         1.6           0.2         -0.3           1.1         Visible           No         No	W1A           3.2           -1.2           -0.7           1.0           -1.0           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           1.4           -0.2           -0.6           0.5	S2 (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 St HAZ Structur ding pote f, if know	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS S5 That 1 ral Evalu ential (un vn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.1           -0.6         0.5	International         International           S5         (URM INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4           0.5         -0.4	VEL         C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struc: es, unkno es, score es, other	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wyn FEM less tha	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 -0.5 2.0 0.6 -0.3 NA 0.2 CL -0.5 -0.7 -0.5 -0.5 -0.5 -0.7 -0.5 -0.7 -0.5 -0.5 -0.5 -0.7 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 Pred?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMMN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: Drawings Reviewed: Pastial Interior: Drawings Reviewed: Yes Soil Type Source:	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           0.2         -0.3           1.1         1.6           0.2         -0.3           1.1         1.1           2         SMIN:         1.3	W1A           3.2           -1.2           -0.7           1.0           -1.0           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           1.4           -0.2           -0.6           0.5	S2 (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 CHAZ Structur ding pote f, if know g hazard	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T al Evalu ential (un	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.1           -0.6         0.5	International         International           S5         (URM INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4           0.5         -0.4	VEL         C1         (MRF)         1.5         -0.9         -0.5         -0.64         -0.9         -0.5         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struc: es, unkno es, score es, other	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wm FEN less tha hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio IA build n cut-of presen	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 -0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial In	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           0.2         -0.3           1.1         -1.2           -0.3         1.1           2         SMIN:         1.3           ■ All Side         No           Assumed         DOGA	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5   OTHER Are There Detailed S Pounc cut-of Evaluation Detailed S Geolo	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>CHAZ</b> Structur ding pote f, if know g hazarco ng gic hazar	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That 1 ral Evalu ential (un wn) ds from ta ards or S	S4         RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           0.5	International         International           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4           0.5         -0.4           0.5         -0.4	C1         (MRF)         1.5         -0.9         -0.5         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, score es, other o ed Nonst	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev won FEN less tha hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio IA build n cut-of presen I Evalu	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f t ation Re	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 <b>0.3</b>	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial In	DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 ≥ SMIN: 1.3 MIN Side No Assumed DOGA	W1A         3.2         -1.2         -0.7         1.0         -1.0         0.3         0.2         -0.6         0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>CHAZ</b> <b>BHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> 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-1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struc: as, score as, score as	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wm FEM less tha hazards tructural	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 CL CL CL CL CL CL CL CL CL CL	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re a identifie	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 ouilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, S <sub>MIN</sub> FINAL LEVEL 1 SCORE, S <sub>L1</sub> ? EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes Soil Type Source: Geologic Hazards Source: Contact Person: UEVEL 2 SCREENING P ■ Yes, Final Level 2 Score, S <sub>L2</sub>	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           -0.7         -1.1           -0.3         1.1           ≥ Smin:         1.3	W1A         3.2         -1.2         -0.7         1.0         -1.0         0.3         0.2         -0.6         0.9	W2           -1.2         -0.7           -1.0         -0.9           2.2         0.5           0.1         -0.9           2.2         0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>CHAZ</b> Structur ding pote f, if know g hazarco ng gic hazar	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That I ral Evalu ential (un wn) ds from ta ards or S mage/de	S4         RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           0.5	International         International           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4           0.5         -0.4           0.5         -0.4	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struc: es, unkno es, score es, other o -0 es, nonstru- tailed eva	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev wm FEN less tha hazards tructural I uctural h aluation	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.7 -0.5 2.0 0.6 -0.3 -0.3 0.2 RED aluatio IA build n cut-of presen I Evalu hazards azards is not n	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.4 0.2 n Requir ing type of f t ation Re s identifie exist that ecessary	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 Pred? or other b commen d that shot t may req /	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING P I Yes, Final Level 2 Score, SL2 Nonstructural hazards? ■ Y	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           0.1         0.2           0.3         1.1           2.5         0.3           1.1         1.6           0.1         0.1           0.2         0.3           1.1         1.1           2.5         MIW:           1.3         Visible           1.3         Ves	W1A         -1.2         -0.7         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         0.3         0.2         -0.6         0.9         S         Aer         Ent         MI         ED?         N	W2           -1.2           -0.7           -1.0           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           2.1           -1.0           -0.6           1.4           0.2           -0.6           1.4           0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b>	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T al Evalu ential (un wn) ds from ta ards or S mage/de system	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5	Interview         Interview <t< th=""><th>VEL         C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3</th><th>1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, score es, score es, score s, nonstru tailed eviz p, no non</th><th>RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev wm FEN less tha hazards tructural I uctural I uctural I uctural I</th><th>L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio I Suild hautio I Suild hautio I Suild I Suild</th><th>PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f t ation Re s identifie exist that ecessary ds identifi</th><th>(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b commend d that shot t may req fied</th><th>(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.5 -0.1 -0.6 -0.5 -</th><th>1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2</th><th>1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0</th></t<>	VEL         C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION RI ed Struct es, score es, score es, score s, nonstru tailed eviz p, no non	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev wm FEN less tha hazards tructural I uctural I uctural I uctural I	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio I Suild hautio I Suild hautio I Suild I Suild	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f t ation Re s identifie exist that ecessary ds identifi	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b commend d that shot t may req fied	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.5 -0.1 -0.6 -0.5 -	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMMN FINAL LEVEL 1 SCORE, $S_{L1}$ EXTENT OF REVIEW Exterior: Partial Interior: Partial Interior: None Drawings Reviewed: I Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING P I Yes, Final Level 2 Score, $S_{L2}$ Nonstructural hazards? I Y	DoNot Know         W1           3.6         -1.2           -0.7         -1.1           -1.1         -1.1           -0.7         -1.1           -0.3         1.1           ≥ Smin:         1.3	W1A         3.2         -1.2         -0.7         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -1.0         -0.7         -0.6         0.9         s         Aer         Ent         MI         ED?         -         N         be verifie	w2           2.9           -1.2           -0.7           -1.0           0.9           2.2           0.5           0.1           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           2.1           -1.0           -0.6           1.4           0.2           -0.6           1.4           0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> <b>CHAZ</b> 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Struc: bs, unkno ss, score es, other constructor tailed evico o, nonstructor tailed evico o, nonstructor tailed evico o, nonstructor tailed evico o, nonstructor tailed evico o, nonstructor tailed evico o, nonstructor o, non</td><td>RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wm FEM less tha hazards tructural h aluation structural b ble data</td><td>L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 EED aluatio I Evalu hazards azards is not n al hazar 2.0 0.2 -0.5 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5</td><td>PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f t ation Re s identifie exist that ecessary ds identifi</td><td>(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b commend d that shot t may req fied [ Do Not K</td><td>(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 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structural b ble data	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 EED aluatio I Evalu hazards azards is not n al hazar 2.0 0.2 -0.5 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5 -0.5 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of f t ation Re s identifie exist that ecessary ds identifi	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b commend d that shot t may req fied [ Do Not K	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.1 -0.6 0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.1 -0.5 -0.3 -0.5 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.1 -0.6 -0.3 -0.5 -0.5 -0.1 -0.6 -0.5 -	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

## Level 2 (Optional) **E** HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bldg Name: Parkrose High School - Fine Arts	Final Level 1 Score:	$S_{L1} = 1.3$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE						
Topic	Statement (	If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)					Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building	ng to the oth	ner.			-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the bu			er.		-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.	0				-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening v	without a st	teel m	oment fra	ame,		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above					-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for park						
	maximum)	length of the building.					-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at s	story above	e or he	eight of a	ny		
		story is more than 2.0 times the height of the story above.					-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of	of that at st	ory ab	ove or he	eight		
		of any story is between 1.3 and 2.0 times the height of the story above.		•			-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the	he story be	ow ca	ausing the	Э		
	4	diaphragm to cantilever at the offset.					-1.0	
	4	Vertical elements of the lateral system at upper stories are inboard of those at lowe					-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of					-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column	line in the	atera	system I	have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			<u></u>	<u> </u>	-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one h	half of the c	lepth (	of the spa	andrel,	0.5	
		or there are infill walls or adjacent floors that shorten the column.					-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.	1.2.1.1.1.1.1				-0.5	<sub>VL2</sub> = 0
	Other	There is another observable severe vertical irregularity that obviously affects the but					-1.0	
Dian	Irregularity	There is another observable moderate vertical irregularity that may affect the buildi					-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or	r both direc	tions.	(Do not		0.7	
Irregularity, PL2		V1A open front irregularity listed above.)					-0.7	
		system: There are one or more major vertical elements of the lateral system that are				iner.	-0.4	
		orner: Both projections from an interior corner exceed 25% of the overall plan dimens opening: There is an opening in the diaphragm with a width over 50% of the total diap					-0.4	
			phragm wit	unat	inal level	•	-0.2	$P_{L2} = 0$
		ing out-of-plane offset: The exterior beams do not align with the columns in plan. arity: There is another observable plan irregularity that obviously affects the building':	la colomia r	orfor	20000		-0.4	PL2= (Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction		enon	nance.		+0.3	(Cup ul -1.1)
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 fee			(Cap total	1	-1.0	
Founding		1% of the height of the shorter of the One building is 2 or more stories taller than			pounding		-1.0	
		adjacent structure and: The building is at the end of the block.			modifiers		-0.5	
S2 Building		eometry is visible.			mounters	ai -1.2)	-1.0	
C1 Building		rves as the beam in the moment frame.					-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain l	hending //	Do not	comhine	with	+0.3	
r o main blag		nark or retrofit modifier.)	bending. (E	50 1101	comonic	, with	.0.0	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few w	alls such a	s in a	warehou	se).	+0.3	
URM	Gable walls					/.	-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.					+1.2	0
Retrofit		ive seismic retrofit is visible or known from drawings.					+1.4	M= 0
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : <sup>1,3</sup>				(		to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic perform	mance.		es 🔳		Transier	
If ves. describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is re-	reauired inc	lepend	dent of th		a's score	
			• • • • • • • • • • •				9	
		UCTURAL HAZARDS						
Location		Check "Yes" or "No")		Yes	No		Com	ment
Exterior		inbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	<u> </u>		x			
		vy cladding or heavy veneer.			x			
		eavy canopy over exit doors or pedestrian walkways that appears inadequately support	orted.		x			
		Inreinforced masonry appendage over exit doors or pedestrian walkways.			x			
		gn posted on the building that indicates hazardous materials are present.			x			
		Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chi	imney.		x			
		and automore populational falling becaude	1					

There are hollow clay tile or brick partitions at any stair or exit corridor. Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Other observed exterior nonstructural falling hazard:

Detential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended

■ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -No Detailed Nonstructural Evaluation required

Comments:

Interior

х

х

FEMA P-154 Data Collection Form

							Add		8678 NE Sum									
										<u>9</u>				2	Zip: <sub>97220</sub>	)		
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	-										mentary So	chool (Hel	ensview)					
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				<b>NOT</b> S!							9: <u>1</u> 42,900				- Year	r Built: Year:	1954	EST
						1200		litions:	Area (Si		42,900 Yes, Y				- 000	rear.	Unknown	_
				/				upancy		embly	Comme			Services	I -li	storic	Shell	ter
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							Soil	Type:		□в			D			NK		
					1.45	T I			Hard Rock	Avg Rock		il S	i lioil	Soil S	Soil		ume Type	
						1.		-			ction: Yes							
					A DECK		Adja	acency:		P	ounding		Falling H	lazards fr	rom Taller	Adjacen	t Building	1
A LONG BARRIER	-	AL COMPANY			Newson	A.	Irreg	gularitie	IS:		ertical (ty lan (type)		rity) entrant cor	ners				
The province of the second	-HelenBolley	N SENOCI		1	9		Fyte	erior Fa	lling	M	Inbraced				avy Clado	lina or H	eavv Ver	neer
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		-		-	The last	25	CO	MMENT	·S·		lilei.	Gas broom			_			
	SKI	ЕТСН	te			20.00	E STIN AVE	Addition	al sketch	es or co	mments o	on separ	ate page	à				
			ASIC	sco	RE, MO	DIFIE												
FEMA BUILDING TYPE	Do Not Know	W1	W1A	W2		<b>S2</b> (BR)	<b>S3</b> (LM)	<b>S4</b> (RC	S5 (URM	C1 (MRF)	C2 (SW)	C3 (URM	PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
Basic Score		3.6	3.2	2.9	2,1	2.0	2.6	SW) 2.0	NF) 1.7	1.5	2.0	INF) 1.2	1.6	1.4	1.7	1.7	1.0	1.5
Severe Vertical Irregularity, VL1		-1.2	-1.2	-1.2		-1.0	-1.1	-1.0	-0.8	-0.9	-1.0	-0.7	-1.0	-0.9	-0.9	-0.9	-0.7	NA
Moderate Vertical Irregularity, VL1		-0.7	-0.7	-0.7		-0.6	-0.7	-0.6	-0.5	-0.5	-0.6	-0.4	-0.6	-0.5	-0.5	-0.5	-0.4	NA
Plan Irregularity, <i>P</i> <sub>L1</sub> Pre-Code		-1.1 -1.1	-1.0 -1.0	-1.0 -0.9		-0.7 -0.6	-0.9 -0.8	-0.7 -0.6	-0.6 -0.2	-0.6 -0.4		-0.5	-0.7 -0.5	-0.6 -0.3	-0.7 -0.5	-0.7 -0.5	-0.4 0.0	NA -0.1
Post-Benchmark		1.6	1.0	2.2		1.4	1.1	1.9	NA	1.9	21	NA	2.0	2.4	2.1	2.1	NA	1.2
Soil Type A or B		0.1	0.3	0.5	0.4	0.6	0.1	0.6	0.5	0.4	0.5	0.3	0.6	0.4	0.5	0.5	0.3	0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories) Minimum Score, S <sub>MIN</sub>		-0.3 1.1	-0.6 0.9	-0.9 0.7	-0.6 0.5	-0.6 0.5	NA 0.6	-0.6 0.5	-0.4 0.5	-0.5 0.3	-0.7 0.3	-0.3 0.3	NA 0.2	-0.4	-0.5 0.3	-0.6 0.3	-0.2 0.2	NA 1.0
FINAL LEVEL 1 SCORE, SL	.1 ≥ S <sub>MIN</sub> :						1	1	1		1	1			1			1
EXTENT OF REVIEW					OTHER	R HAZ	ARDS	;		АСТ	ION R	EQUI	RED					
Exterior: Parti		All Sides			Are There				4		ed Struc							
Interior: Interior: None Drawings Reviewed: Ves	ים ∈ ו⊓		🔳 Ente	ered							es, unkno				r other bu	uilding		
Soil Type Source:		ssumed			Poun cut-o	ding pot ff, if knov		HESS SL2	-		es, score es, other							
Geologic Hazards Source:		DOGAM			🗌 Fallin	g hazar	ds from ta	aller adja	icent	N I								
Contact Person:					buildi Geol	0	ards or S	oil Type	F	Detai	ed Nons	tructura	al Evalua	ation Rec	commen	ded? (ch	eck one)	
LEVEL 2 SCREENING	PERF	ORME	D?		🔲 Signi	ficant da	mage/de				es, nonst							
Yes, Final Level 2 Score, St	-1.8		🗆 N	0	the s	ructural	system				o, nonstr etailed ev				may requ	ure mitiga	alion, but	а
Nonstructural hazards?	Yes		🗆 N	lo							o, no nor				ed [	] DNK		
Where info	rmation o	cannot b	e verifie	d, scr	eener shal	l note tl	he follow	ving: E	ST = Esti	mated c	or unrelia	ble dat	a <u>OR</u>	DNK = D	o Not Kr	now		
	Aoment-resi aced frame				einforced co hear wall	ncrete		URM INF TU = Tilt u	= Unreinfo	rced mas	onry infi <b>ll</b>		I = Manufa = Light m	actured Ho letal		D = Flexib D = Rigid	le diaphra diaphragm	

FEMA P-154 Data Collection Form

## Level 2 (Optional) HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Summer Elementary School	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = 0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic	Statement (	f statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other.		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building t	o the oth	er.	-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment frame,		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1	6' of wall	minimum).	-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) over	er at leas	t 50% of the		
	maximum)	length of the building.			-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story at	ove or h	eight of any	0.0	
		story is more than 2.0 times the height of the story above. Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	t atom / ak	ovo or boight	-0.9	
		of any story is between 1.3 and 2.0 times the height of the story above.	i story at	ove of neight	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	helow ca	ausing the	0.0	
	COLDUCK	diaphragm to cantilever at the offset.	501011 00		-1.0	
	4	Vertical elements of the lateral system at upper stories are inboard of those at lower storie	s		-0.5	
	4	There is an in-plane offset of the lateral elements that is greater than the length of the elements			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t		svstem have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of th	e depth	of the spandrel	,	
		or there are infill walls or adjacent floors that shorten the column.	-		-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	10
	Other	There is another observable severe vertical irregularity that obviously affects the building's			₿	<sub>VL2</sub> = <u>-1.0</u>
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			-0.5	(Cap at -1.2)
Plan		gularity: Lateral system does not appear relatively well distributed in plan in either or both di	rections.	(Do not		
Irregularity, P <sub>L2</sub>		V1A open front irregularity listed above.)				
		system: There are one or more major vertical elements of the lateral system that are not orth			-0.4	
		rner: Both projections from an interior corner exceed 25% of the overall plan dimension in t				
		pening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	width at	that level.	-0.2	$P_{L2} = -1.1$
		ng out-of-plane offset: The exterior beams do not align with the columns in plan. arity: There is another observable plan irregularity that obviously affects the building's seism	io porforr	manaa	-0.4	PL2= (Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.	ic periori	nance.	+0.3	(Cup ul -1.1)
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		
rounding		1% of the height of the shorter of the One building is 2 or more stories taller than the oth		pounding	1.0	
		adjacent structure and: The building is at the end of the block.		modifiers at -1.2		
S2 Building		eometry is visible.			-1.0	
C1 Building		ves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg	There are ro	of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	. (Do noi	t combine with	+0.3	
_		ark or retrofit modifier.)	-			
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	h as in a	warehouse).	+0.3	
URM	Gable walls a				-0.4	
MH		pplemental seismic bracing system provided between the carriage and the ground.			+1.2	M=
Retrofit		ive seismic retrofit is visible or known from drawings.			+1.4	
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$			(Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance:				
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	indepen	dent of the buil	ding's score.	
OBSEDVAR		JCTURAL HAZARDS				
Location		Check "Yes" or "No")	Yes	No	Com	ment
Exterior		inbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	×		URM C	
		vy cladding or heavy veneer.	×			
		avy canopy over exit doors or pedestrian walkways that appears inadequately supported.	х			
		Inreinforced masonry appendage over exit doors or pedestrian walkways.		x		
		gn posted on the building that indicates hazardous materials are present.		x		
		ler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		x		
		ed exterior nonstructural falling hazard:	х		Glass	block
Interior		llow clay tile or brick partitions at any stair or exit corridor.		х		
			1			

Other observed interior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Potential nonstructural hazards with significant threat to occupant life safety 
 Detailed Nonstructural Evaluation recommended
 Nonstructural hazards identified with significant threat to occupant life safety 
 Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety —>No Detailed Nonstructural Evaluation required

Comments:

Glass block

FEMA P-154 Data Collection Form

# Level 1 A HIGH Seismicity

							Add	ress: _	4030 NE Sacr	umento St.								
										1 <u>R</u>				2	Zip: <sub>97230</sub>			
						_		er Identi	-									
A a i.i. a.d.			1		the state								/heatley)					
	A Jah		AL	-			Use	·										
					-		Lati	tude: 45	539998			'	Longitu	de:	122,5187248			
			STREES.											- 4 - (7)		0.269		
		all a			-1-	L.E.									e: <u>8/16</u>			
					NRC NI	-					<sup>د</sup>				_ Year	Built:	1958 [	EST
	and Tak		-							. ft.):	50,400			_	_ Code	Year:	Unknown	
	and the		Call and	- Anto	Revolution -			itions:			] Yes, Y							
				-		ALL ALL	Occ	upancy		embly istrial V	Commen Office Warehou		Emer. S School Resider	tial, #U	and the second second	storic overnmer	Shelt Shelt	ter
				TEX-1			Soil	Type:	<b>□A</b> Hard	<b>□B</b> Avg	Dens					NK DNK, assi	ume Type	D.
	C.		sa vaniento St		Na Sorra	2			Rock	Rock	Soi	-			Soil			
	the Williamster					entrad.	N	-		1.140 10010					s/No/DNK			
NE Sacramento St		/				- Em	1	icency:			ounding			lazards fr	rom Taller	Adjacen	t Building	
1	· Jre	-	Coton.			100	Irrec	ularitie	S:		ertical (typa)		ity)	ner				
	en!	Contracting Salar		201	Non Service	1.20	Exte	rior Fal	lina	1	nbraced				avy Clado	ling or H	eavy Ver	neer
and the second second		1 r			1			ards:	ing.	P	arapets ther: Gla				pendages			
Contraction of the second	10000	A I	-	Tr.		-	CO	MMENT	S:						-			_
				and a second			State state											
	SK	тсн									nments o			1				
			-		RE, MO					_				DOD	DM4	DMO	UDM	MIL
FEMA BUILDING TYPE C2	Do Not Know	W1	W1A	W2	<b>S1</b> (MRF)	<b>S2</b> (BR)	<b>S3</b> (LM)	<b>\$4</b> (RC SW)	S5 (URM INF)	C1 (MRF)	C2 (SW)	C3 (URM INF)	PC1 (TU)	PC2	<b>RM1</b> (FD)	RM2 (RD)	URM	MH
Basic Score Severe Vertical Irregularity, VL1		3.6 -1.2	<b>3.2</b> -1.2	2.9	-1.0	<b>2.0</b> -1.0	2.6	<b>2.0</b>	1.7 -0.8	1.5 -0.9	20	<b>1.2</b> 0.7	<b>1.6</b> -1.0	1.4 0.9	1.7 -0.9	<b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
Moderate Vertical Irregularity, $V_L$	1	-0.7	-0.7	-0.7	-0.6	-0.6	-0.7	-0.6	-0.5	0.5	-0.6	0.4	0.6	-0.5	-0.5	-0.5	0.4	NA
Plan Irregularity, PL1		-1.1	-1.0	-1.0		-0.7	-0.9	-0.7	-0.6	-0.6		-0.5	-0.7	-0.6	-0.7	-0.7	-0.4	NA
Pre-Code		-1.1	-1.0	-0.9		-0.6	-0.8	-0.6	-0.2	-0.4	$\bigcirc 7$	-0.1	-0.5	-0.3	-0.5	-0.5	0.0	-0.1
Post-Benchmark Soil Type A or B		1.6 0.1	1.9 0.3	2.2 0.5	1.4 0.4	1.4 0.6	1.1 0.1	1.9 0.6	NA 0.5	1.9 0.4	2.1 0.5	NA 0.3	2.0 0.6	2.4 0.4	2.1 0.5	2.1 0.5	NA 0.3	1.2 0.3
Soil Type E (1-3 stories)		0.2	0.2	0.1	-0.2	-0.4	0.2	-0.1	-0.4	0.0	0.0	-0.2	-0.3	-0.1	-0.1	-0.1	-0.2	-0.4
Soil Type E (> 3 stories)		-0.3	-0.6	-0.9		-0.6	NA	-0.6	-0.4	-0.5	-0.7	-0.3	NA	-0.4	-0.5	-0.6	-0.2	NA
Minimum Score, S <sub>MIN</sub>		1.1	0.9	0.7	0.5	0.5	0.6	0.5	0.5	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.2	1.0
FINAL LEVEL 4 000DE 1																		
FINAL LEVEL 1 SCORE, S	Sl1≥ Smin:	0.5																
EXTENT OF REVIEW			_		OTHER						ION RI	-						
EXTENT OF REVIEW Exterior:	rtial 🔳 /	All Sides	Aer		Are There	Hazaro	Is That 1	rigger A	L	Detail	ed Struct	ural Ev	aluation					
EXTENT OF REVIEW Exterior: Pai Interior: Noi	rtial 🔳 / ne 🔲 \	All Sides /isible	Aer		Are There Detailed S	e Hazaro Structur	ls That 1 al Evalu	rigger A ation?		Detail	ed Struct es, unkno	wn FEM	aluation A buildir	ng type o	ed? or other bu	uilding		
EXTENT OF REVIEW Exterior:	rtial 🔳 / ne 🗌 \ s 🔲 I	All Sides /isible			Are There Detailed S	Hazaro Structur	<b>is That 1</b> al Evalu ential (un	rigger A ation?		Detail Petail	ed Struct es, unkno es, score	wn FEM less tha	aluation A buildir n cut-off	ng type o		uilding		
EXTENT OF REVIEW Exterior: Pai Interior: Noi Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source:	rtial 🔳 / ne 🗌 \ s 🔲 I	All Sides /isible No	Enter		Are There Detailed \$	e Hazaro Structur ding pote f, if knov g hazaro	<b>is That 1</b> al Evalu ential (un vn)	rigger A ation?	>	Detail Performance Performance Performanc	ed Struct es, unkno es, score es, other l	wn FEM less tha	aluation A buildir n cut-off	ng type o		uilding		
EXTENT OF REVIEW Exterior: Pai Interior: Noi Drawings Reviewed: Yes Soil Type Source:	rtial 🔳 / ne 🗌 \ s 🔲 I	All Sides /isible No	Enter		Are There Detailed \$	e Hazarc Structur ding pote f, if know g hazarc ng	Is That 1 al Evalu ential (un vn) Is from ta	Trigger A ation? Iless S <sub>L2</sub> Aller adja	> cent	<b>Detail</b> Ye Ye Ye Ye Ne	ed Struct es, unkno es, score es, other l	wn FEM less tha nazards	aluation A buildir n cut-off present	ng type o		Ū	eck one)	
EXTENT OF REVIEW Exterior: Pai Interior: Noi Drawings Reviewed: Yes Soil Type Source: Geologic Hazards Source: Contact Person:	rtial  , , ne , , s , , , , , , , , , , , , , , , ,	All Sides /isible No ssumed DOGAM	Ente		Are There Detailed \$ Pound Cut-of Fallin buildi Geolo	e Hazaro Structur ding pote f, if know g hazaro ng ogic haza	Is That 1 al Evalu ential (un vn) Is from ta ards or S	Trigger A ation? Iless S <sub>L2</sub> aller adja oil Type	> cent	Detail ☐ Ye ☐ Ye ☐ Ye ☐ Ne Detail	ed Struct es, unkno es, score es, other l o ed Nonst es, nonstr	wn FEM less that nazards ructura uctural l	aluation A buildir n cut-off present I Evalua nazards	ng type o tion Rec	or other bu comment	<b>ded?</b> (ch uld be ev	aluated	
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FEMA P-154 Data Collection Form

### Level 2 (Optional) A HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Thompson Elementary School (Wheatley)	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider S <sub>MIN</sub> )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building to		er	-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment fram		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1				
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov				
	maximum)	length of the building.			-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story at	ove or he	eight of any	,	
		story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	t story ab	ove or heig		
	0 11 1	of any story is between 1.3 and 2.0 times the height of the story above.			-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	below ca	lusing the	1.0	
		diaphragm to cantilever at the offset.			-1.0	
	4	Vertical elements of the lateral system at upper stories are inboard of those at lower stories			-0.5	
	Object	There is an in-plane offset of the lateral elements that is greater than the length of the elements that is greater than the length of the elements in the second s	nents.		-0.3	
	Short Column/	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t height/depth ratios less than 50% of the nominal height/depth ratio at that level.	ne lateral	system na	ve -0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	o donth (	of the energy		
	1 101	or there are infill walls or adjacent floors that shorten the column.	le deptit t	n une span	-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building's	seismic	performanc		VL2= -1.0
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			-0.5	(Cap at -1.2)
Plan	<b>v</b> ,	egularity: Lateral system does not appear relatively well distributed in plan in either or both d				
Irregularity, PL2		V1A open front irregularity listed above.)		1	$\bigcirc \mathcal{D}$	
0	Non-parallel	system: There are one or more major vertical elements of the lateral system that are not ort	hogonal t	o each othe		
		orner: Both projections from an interior corner exceed 25% of the overall plan dimension in t			$\bigcirc 4$	
	Diaphragm o	ppening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	width at	that level.	-0.2	
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = \frac{-1.1}{2}$
		arity: There is another observable plan irregularity that obviously affects the building's seism	ic perforn	nance.	-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.			+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total	$\bigcirc$	
		1% of the height of the shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller the other shorter of taller taller than the other shorter of taller talle		pounding	-1.0	
	-	adjacent structure and: The building is at the end of the block.		modifiers at		
S2 Building		peometry is visible.			-1.0	
C1 Building		rves as the beam in the moment frame.	(5)		-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending nark or retrofit modifier.)	g. (Do not	combine w	vith +0.3	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	h ac in a	warohouso	. +0.3	
URM	Gable walls		11 05 111 0	warenouse	-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.			+1.2	
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	M=
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : -1.8				to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance:		es 🔳 No	N N	
		the comment box below and indicate on the Level 1 form that detailed evaluation is required				
			паерен		ounding a scole.	
OBSERVABL	E NONSTR	UCTURAL HAZARDS				
Location	Statement (	Check "Yes" or "No")	Yes	No	Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	x		URM C	nimney
		vy cladding or heavy veneer.	x			
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	х			
		unreinforced masonry appendage over exit doors or pedestrian walkways.		x		
		gn posted on the building that indicates hazardous materials are present.		x		
		ller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		x		
		/ed exterior nonstructural falling hazard:	x		Glass	block
Interior		Illow clay tile or brick partitions at any stair or exit corridor.		x		
	Uner observ	ved interior ponstructural falling bazard	I X	1	Glass	block

Other observed interior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended
Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation required

Comments:

Glass block

FEMA P-154 Data Collection Form

						Add	ress:	1456 NE Kno	St.				_				
								Portland, C	Pic Fic				2	Zip: <sub>97220</sub>	)		
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nn			-(-)			Tota	al Floor	Area (so	c. ft.):	36,600	-	in ordu	0	Code	Year:	Unknown	
					0	Add	litions:		lone [	Yes, \	(ear(s) E	Built:	1958, 1965			<b>OTHER AND</b>	
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BULLER THERE		1.00				Adja	acency:		P	ounding		Falling H	lazards fr	rom Talbr	Adjacen	t Building	)
The second second	E	X		100	Kno	no Irrea	gularitie	s:		ertical (ty lan (type)		rity) entrant cor	ners				
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	E DoNot W1	BASIC W1A	SCOR W2	S1	S2	RS, AI	ND FIN	S5	EVEL	1 SCO C2	RE, S C3	<i>L1</i> PC1	PC2	<b>RM</b> 1	RM2	URM	МН
C2	E DoNot W1 Khow	W1A	W2	S1 (MRF)	<b>S2</b> (BR)	RS, AI	ND FIN S4 (RC SW)	S5 (URM INF)	C1 (MRF)	1 SCO C2 (SW)	RE, S C3 (URM INF)	L1 PC1 (TU)	PC2	(FD)	(RD)		
C2 Basic Score	E DoNot W1 Know 3.6	W1A	W2	\$1 (MRF) 2.1	S2 (BR)	RS, AI	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	EVEL C1 (MRF) 1.5	1 SCO C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
C2 Basic Score Severe Vertical Irregularity, VL1	E DoNot W1 Know 3.6 -1.2	W1A 3.2 -1.2	W2 2.9 -1.2	<b>S1</b> (MRF) <b>2.1</b> -1.0	<b>S2</b> (BR) <b>2.0</b> -1.0	RS, AI S3 (LM) 2.6 -11	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	C1 (MRF) 1.5 -0.9	1 SCO (SW) 2.0 -1.0	RE, S C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2 1.4 -0.9	(FD) <b>1.7</b> -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
C2 Basic Score	E DoNot W1 Know 3.6	W1A	W2	\$1 (MRF) 2.1	S2 (BR)	RS, AI	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	EVEL C1 (MRF) 1.5	1 SCO C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1	E DoNot Know 3.6 -1.2 -0.7	W1A 3.2 -1.2 -0.7	W2 2.9 -1.2 -0.7	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6	<b>S2</b> (BR) <b>2.0</b> -1.0 -0.6	<b>RS, Al</b> S3 (LM) <b>2.6</b> -1.1 -0.7	ND FIN S4 (RC SW) 2.0 1.0 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5	C1 (MRF) 1.5 -0.9 -0.5	1 SCO (SW) 2.0 -1.0 -0.6	RE, S (URM INF) 1.2 -0.7 -0.4	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5	(FD) <b>1.7</b> -0.9 -0.5	(RD) <b>1.7</b> -0.9 -0.5	<b>1.0</b> -0.7 -0.4	1.5 NA NA
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark	E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6	W1A 3.2 -1.2 -0.7 -1.0 -1.0 1.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 (0.8) (-0.7) 2.1	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B	E DoNot W1 Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1	W1A 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4	<b>1 SCO</b> (SW) -1.0 -0.6 -0.6 -0.7 2.1 0.5	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories)	E DoNot W1 Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 <b>0.8</b> <b>0.7</b> 2.1 0.5 0.0	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
C2 Basic Score Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Plan Irregularity, P <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B	E DoNot W1 Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1	W1A 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4	<b>1 SCO</b> (SW) -1.0 -0.6 -0.6 -0.7 2.1 0.5	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories)	E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	ND FIN S4 (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 <b>0.8</b> <b>0.7</b> 2.1 0.5 0.0 -0.7	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, Smin	E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 <b>0.8</b> <b>0.7</b> 2.1 0.5 0.0 -0.7	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1	E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6 0.5	S2 (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 R HAZ	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 0.8 0.7 2.1 0.5 0.0 -0.7 0.3	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUI	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED	PC2           1.4           -0.9           -0.5           -0.6           -0.3           2.4           0.4           -0.1           -0.4           0.2	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ None	E DoNot Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.5 MIX: O.5 All Side: Visible	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6 0.5 <b>OTHEF</b>	<b>S2</b> (BR) <b>20</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b>	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That 1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger 4	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUII tural Ev	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 Require	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes	E DoNot Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.5 MIX: O.5 All Side: Visible No	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> BHAZ	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That 1	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.1           -0.6         0.5	NAL         II           S5         (URM)           (INF)         1.7           -0.8         -0.5           -0.2         NA           0.5         -0.4           -0.5         -0.4           0.5         -0.4	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 0.8 0.7 2.1 0.5 0.0 -0.7 0.3 ION R	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUII tural Evo wm FEM	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 Require ng type o	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes Soil Type Source: □	E DoNot Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.5 0.5 () .5 .5 .5 .5 .5 .5 .5 .5 .5 .5	W1A         3.2         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>K HAZ</b> Structur ding pot f, if knov	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalu ential (ur wn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	NAL         II           S5         (URM           (INF)         1.7           -0.8         -0.5           -0.6         -0.2           NA         0.5           -0.4         -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.6 -0.6 -0.7 -0.6 -0.6 -0.7 -0.5 0.0 -0.7 -0.5 -0.0 -0.5 -0.0 -0.5 -0.0 -0.5 -0.0 -0.5 -0.0 -0.5 -0	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUII tural Ev wm FEM less tha	PC1 (TU)           1.6           -1.0           -0.6           0.7           0.6           -0.7           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 Require ng type of	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes Soil Type Source: □ Geologic Hazards Source: □	E DoNot Kiow 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.5 MIX: O.5 All Side: Visible No	W1A         3.2         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           1.4           0.2           -0.6           0.5   OTHEF Are There Detailed S           Pounn cut-of Fallin	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 -0.7 -0.6 -0.4 -0.4 -0.4 -0.6 -0.4 -0.5 <b>St HAZ</b> <b>B HAZ</b> <b>B HAZ</b> <b>B HAZ</b> <b>C</b> <b>B HAZ</b> <b>C</b> <b>B HAZ</b>	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That T ral Evalu cential (ur	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	NAL         II           S5         (URM           (INF)         1.7           -0.8         -0.5           -0.6         -0.2           NA         0.5           -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.9         0.5         0.6         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.7 0.7 0.3 -0.6 -0.7 -0.7 0.3 -0.6 -0.7 -0.7 -0.5 -0.7 -0.7 -0.5 -0.7	RE, S (URM (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUID tural Ev wm FEM less that hazards	PC1 (TU)           1.6           -1.0           -0.6           0.7           0.6           -0.7           0.6           0.7           0.6           0.7           4.0           -0.7           0.6           -0.7           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 <b>Require</b> ng type o	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other but	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ Yes Soil Type Source: □ Geologic Hazards Source: □ Contact Person: □	E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2 SMIN: O.5 All Side: Visible No Assumed DOCAN	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>B HAZ</b> <b>R HAZ</b> <b>R HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.1           -0.6         0.5           Trigger A           ation?	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1           (MRF)           1.5           -0.9           -0.5           -0.64           0.4           0.4           0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, score es, other o ed Nons	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUII tural Ev bown FEM less that hazards tructural	PC1 (TU)           1.6           -1.0           -0.6           0.7           0.6           -0.7           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A Require ng type of ation Rec	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other bit	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes Soil Type Source: Geologic Hazards Source: □	E DoNot Know 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2 SMIN: O.5 All Side: Visible No Assumed DOCAN	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>w2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.4 -0.6 0.5 <b>X HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZ</b> <b>R HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           MA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.1           -0.6         0.5           Trigger A           ation?	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.7 0.7 0.3 -0.6 -0.7 0.7 0.3 -0.6 -0.7 0.7 0.3 -0.7 0.3 -0.6 -0.7 0.5 0.0 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7	RE, S (URM (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUID tural Ev by m FEM less that hazards tructural	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED raluation MA buildi n cut-off present LEValua hazards	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A Require ng type of ation Rec identified	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other but commended that shool	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch uld be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial I	ERFORME	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.4 -0.6 0.5 <b>X HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZ</b> <b>R HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.1           -0.6         0.5           Trigger A           ation?	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           0.9           0.4           0.0           -0.5           0.4           0.7           0.8           0.9           0.4           0.0           0.5           0.3           Detail           Y4	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, score es, other o ed Nons	RE, S (URM (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUII tural Ev bown FEM less that hazards tructural uctural h	PC1           (TU)           1.6           -1.0           -0.6           -0.7           0.6           -0.3           NA           0.2   RED aluation tA building no cut-offic present al Evaluation al Evaluation	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A Require ng type of ation Rec identified exist that	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other but commended that shool	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch uld be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMN FINAL LEVEL 1 SCORE, SL12 EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ Yes Soil Type Source: Geologic Hazards Source: Contact Person: LEVEL 2 SCREENING P	ERFORME 200Not Kiow 9 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.5 MI Side: Visible No Assumed DOGAF	W1A         3.2         -1.2         -0.7         -1.0         -1.0         0.3         0.2         -0.6         0.9	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.4 -0.6 0.5 <b>X HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZZ</b> <b>R HAZ</b> <b>R HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           MA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           1.9         0.6           -0.1         -0.6           -0.5         -0.1           -0.6         0.5           Trigger A           ation?	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         1.9         0.4         1.9         0.4         9         0.4         1.9         0.4         1.9         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 0.3 0.7 2.1 0.5 0.0 -0.7 0.3 CON R ed Struc es, score es, other o ed Nonsi es, nonstru o, nonstru	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUII tural Ev bwn FEM less that hazards tructural uctural haluation	PC1 (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.7           aluation           Abuilding           present           It Evaluation           hazards           airards	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 -0.1 -0.1 -0.4 0.2 A construction Reconstruction for the second	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other but commended that show may required	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? ( <i>ch</i> uld be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMM FINAL LEVEL 1 SCORE, SL1 = EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial Interior: □ Partial Interior: □ None Drawings Reviewed: ■ Yes Soil Type Source: Geologic Hazards Source: Contact Person: UEVEL 2 SCREENING P I Yes, Final Level 2 Score, SL2 Nonstructural hazards? ■ Y	ERFORME 200Not Kiow 9 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 2.5 MI Side: Visible No Assumed DOGAF	W1A         3.2         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2           -1.2           -0.7           -1.0           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5   OTHEF Are There Detailed S Poun cut-of Fallin buildi Geolc Signif the st	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>X HAZ</b> <b>B HAZA</b> <b>Structur</b> ding pot f, if knov g hazaro 9 rugic haz icant da ructural	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	St         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           0.5           -0.4           -0.5           cent           F           m to	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           0.9           0.4           0.0           -0.5           0.3           Detail           □ Yi           □ Yi           □ Yi           □ Yi           □ Yi           □ No           Detail           □ Yi           □ No           □ No	1 SCO C2 (SW) -1.0 -0.6 0.3 0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, score es, other o ed Nonsi es, nonstru o, nonstru stailed ev. o, no non	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUII tural Ev bwn FEM less that hazards tructural uctural haluation structurar	PC1 (TU)           1.6           -1.0           -0.6           -0.7           0.6           -0.3           NA           0.2   RED aluation taluation tal building the cut-offic present al Evaluation al Evaluation azards a cut of a cut-offic present	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A continued of the second	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other bin commented that shot may required	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3       	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
C2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMW FINAL LEVEL 1 SCORE, SL1 ≥ EXTENT OF REVIEW Exterior: □ Partial Interior: □ Partial I	E CoNot Know	W1A         3.2         -1.2         -0.7         -1.0         -0.3         0.2         -0.6         0.9         Ent         D         N         D         N         N         N         N         D         N         N         N         N         N         N         N         <	w2           -1.2           -0.7           -1.0           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           21           -1.0           -0.6           1.4           0.2           0.6           1.4           0.5   OTHEF Orther Detailed S Poun cut-of Fallin buildi Geok Signif the st ener shall nforced cor	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.2           NA           0.6	St         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           -0.6         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.4           -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.7 0.7 0.3 -0.7 0.3 -0.6 -0.7 0.7 0.3 -0.7 0.3 -0.7 -0.6 -0.7 0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 -0.7 0.3 -0.7 -0	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUII tural Ev bass thas hazards tructural uctural haluation structural ble data MH	PC1 (TU)           1.6           -1.0           -0.6           -0.7           0.6           -0.3           NA           0.2   RED ratuation ratuatin <pratuatin< p=""> ratuation ratuation <pratuatio< td=""><td>PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A continue of the second second</td><td>(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other but commended that shoo may request that shoo that shoo</td><td>(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 </td><td>1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2</td><td>1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0</td></pratuatio<></pratuatin<>	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A continue of the second	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other but commended that shoo may request that shoo that shoo	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

### Level 2 (Optional) A HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Knott Elementary School (Knott Creek)	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other		1.2	Custotalo
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building to the		or	0.3	
inegularity, v <sub>L2</sub>	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or	W1 building on price wait. An unbraced cripple wait is visible in the craw space. W1 house over garage: Underneath an occupied story, there is a garage opening without	a stool n	noment frame	-0.0	
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use '			-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov			1.2	
	maximum)	length of the building.			-1.2	
		Non-W1 building: Length of lateral system at any story is less than 50% of that at story al story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a of any story is between 1.3 and 2.0 times the height of the story above.	at story a	bove or height	-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	/ below c	ausing the		
		diaphragm to cantilever at the offset.		0	-1.0	
	1	Vertical elements of the lateral system at upper stories are inboard of those at lower stories	es.		-0.5	
	ĺ	There is an in-plane offset of the lateral elements that is greater than the length of the ele			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in		al system have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.		.,	-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of t	he depth	of the spandre		
		or there are infill walls or adjacent floors that shorten the column.			-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	
	Other	There is another observable severe vertical irregularity that obviously affects the building	s seismic	performance	ŰD	$V_{L2} = -1.0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			0.5	(Cap at -1.2)
Plan	0 ,	egularity: Lateral system does not appear relatively well distributed in plan in either or both d			0.0	(cup ut 1.2)
Irregularity, PL2		V1A open front irregularity listed above.)		. (Do not	$\overline{0}\overline{D}$	
inegularity, 7 L2		system: There are one or more major vertical elements of the lateral system that are not or	hogonal	to each other	0.4	
		properties and the second of the second system that are not off				
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm			-0.2	
			i wiulii al	Inal level.	-0.2	$P_{L2} = \frac{-1.1}{2}$
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.	io porfor	manaa	-0.4	PL2 – (Cap at -1.1)
Dedundancu		larity: There is another observable plan irregularity that obviously affects the building's seism	lic perior	mance.		(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.		(Can tatal	+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		
		1% of the height of the shorter of the One building is 2 or more stories taller than the other disease terms the shorter of th	her.	pounding	-1.0	
00 D II II	-	adjacent structure and: The building is at the end of the block.		modifiers at -1.	/ I	
S2 Building		geometry is visible.			-1.0	
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	g. ( <i>Do no</i>	t combine with	+0.3	
		nark or retrofit modifier.)				
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls such	ch as in a	a warehouse).	+0.3	
URM	Gable walls				-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.			+1.2	M=
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 1.8			(Transfer	to Level 1 form)
There is observal	ble damage or	deterioration or another condition that negatively affects the building's seismic performance	: 🗌 Y	es 🔳 No		
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	l indepen	dent of the buil	ding's score	
		UCTURAL HAZARDS	1	1 1		
Location		Check "Yes" or "No")	Yes	No	Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.		×		
		vy cladding or heavy veneer.		x		
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.		x		
	There is an u	unreinforced masonry appendage over exit doors or pedestrian walkways.		×		
	There is a si	gn posted on the building that indicates hazardous materials are present.		x		
		Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		x		
		ved exterior nonstructural falling hazard:	х	1 1	Glass	block
Intorior		Now day tile or brick partitions at any stair or exit corridor	1			

 Other observed interior nonstructural falling hazard:
 ×

 Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)
 ×

There are hollow clay tile or brick partitions at any stair or exit corridor.

Potential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended
 Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety —>No Detailed Nonstructural Evaluation required

Comments:

Interior

Glass block

## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

Level 1 B HIGH Seismicity

	they .	14	1			Add	Iress: _	1456 NE Knot	St.								
and the second	- BAN		Par-	from-		A								Zip: 9722	0		
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								me:	ott Eleme	entary Scho	ol (Knott C	Creek) - 1	1965 Addit	ion			
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AL DE					and a	1000			-					ne: <u>8/1</u>	5/2021		
						No.	Stories:	Abov	e Grade	9: <u>1</u>	Belo	w Grad	le: o	Yea	r Built:	1965	EST
						Tota	al Floor	Area (so	. ft.):	3,000				Cod	e Year:	Unknown	
						Add	litions:	N	one [	Yes, Y	(ear(s) B	Built:					
Torrent and a second						Occ	upancy		embly strial t/	Comme Office Wareho		School	Services		istoric iovernmer	☐ Shell nt	ter
THE ASIAN CONTRACTOR	and at					Soil	Туре:	Hard Rock	Avg Rock	Den	C 💽	D	E		NK DNK, ass	ume Type	e D.
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				10		and the second se	and the second second						nazalus	ITOITI Tale	Aujacen	t building	4
				100	Kni	ind Irred	gularitie	s:		ertical (ty lan (type)		rity) entrant co	mers				
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A		ASIC	SCOR	RE, MO	DIFIE								e				
FEMA BUILDING TYPE DoNot		ASIC SW1A	SCOR W2	S1	S2	RS, AI	ND FIN	S5	VEL C1	1 SCO C2	RE, S	L1 PC1	e PC2		RM2	URM	MH
	BA		-	-		RS, AI	ND FIN	AL LE	VEL	1 SCO C2 (SW)	RE, S	L1		<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE DoNot C2 Know Basic Score	84 W1 3.6	W1A	W2	S1 (MRF) 2.1	S2 (BR) 2.0	RS, Al	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	VEL C1 (MRF) 1.5	1 SCO (SW) (2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE DoNot C2 DoNot Basic Score Severe Vertical Irregularity, VL1	84 W1 3.6 -1.2	W1A 3.2 -1.2	W2 2.9 -1.2	<b>S1</b> (MRF) <b>2.1</b> -1.0	S2 (BR) 2.0 -1.0	RS, Al S3 (LM) 2.6 -11	ND FIN (RC SW) 2.0 -1.0	S5 (URM INF) 1.7 -0.8	C1 (MRF) 1.5 -0.9	1 SCO (SW) 2.0 -1.0	RE, S C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) 1.7 -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
FEMA BUILDING TYPE DoNot C2 Know Basic Score	84 W1 3.6	W1A	W2	S1 (MRF) 2.1	S2 (BR) 2.0	RS, Al	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	VEL C1 (MRF) 1.5	1 SCO (SW) (2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE         DoNot           C2         Kiow           Basic Score         Severe Vertical Irregularity, VL1           Moderate Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1	<b>W1</b> 3.6 -1.2 -0.7	W1A 3.2 -1.2 -0.7	W2 2.9 -1.2 -0.7	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6	<b>S2</b> (BR) -1.0 -0.6	<b>RS, Al</b> S3 (LM) <b>2.6</b> -1.1 -0.7	ND FIN S4 (RC SW) 2.0 -1.0 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5	1 SCO C2 (SW) -1.0 -0.6	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4	L1 PC1 (TU) 1.6 -1.0 -0.6	PC2 1.4 -0.9 -0.5	(FD) 1.7 -0.9 -0.5	(RD) 1.7 -0.9 -0.5	<b>1.0</b> -0.7 -0.4	1.5 NA NA
FEMA BUILDING TYPE     DoNot       C2     Kiow       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Post-Benchmark	<b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>RS, Al</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9	1 SCO (SW) -1.0 -0.6 -0.7 2.1	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE     DoNot       C2     Kiow       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code       Post-Benchmark     Soil Type A or B	<b>W1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1	<b>W1A</b> 32 -1.2 -0.7 -1.0 -1.0 1.9 0.3	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6	<b>RS, Al</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3	<b>1.5</b> NA NA -0.1 1.2 0.3
FEMA BUILDING TYPE         DoNot           C2         Kiow           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (1-3 stories)	<b>B/</b> <b>%1</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	W2 2.9 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	VEL (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE         DoNot           C2         Kiow           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)	<b>B/</b> <b>36</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	ND FIN S4 (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	VEL (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>1 SCO</b> (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         DoNot           C2         Kiow           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark           Soil Type A or B         Soil Type E (1-3 stories)           Soil Type E (> 3 stories)         Minimum Score, $S_{MIN}$	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	W2 2.9 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	VEL (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE     DoNot       C2     Kiow       Basic Score     Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code       Post-Benchmark       Soil Type A or B       Soil Type E (> 3 stories)       Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	VEL           C1 (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	<b>1 SCO</b> <b>C2</b> (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 -0.2 -0.6 0.5 <b>OTHEF</b>	<b>S2</b> (BR) <b>2 0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	Image: Non-State         Non-State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMIN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:         Partial       Partial	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 All Sides [	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6 0.5	<b>S2</b> (BR) <b>2 0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazar	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.1 0.2 NA 0.6 CARDS ds That	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A	Image: Non-State         Non-State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ded Struc	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 All Sides [	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF) 21 -1.0 -0.6 -0.8 -0.6 1.4 -0.2 -0.6 0.5 OTHEF Are Ther Detailed	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazar Structur	<b>RS, AI</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 <b>CARDS</b> <b>ds That</b> ral Evalue	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A ation?	Image: Non-State         Non-State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ded Struc	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev own FEM	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio (A build	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMM       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:         Interior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Ves	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 Visible [ No Assumed	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> e Hazan Structur ding pot ff, if kno	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That ral Evalu ential (ur wn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State         Non-State           NA         -0.5         -0.6           -0.2         NA         0.5           -0.4         -0.5	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 CON R led Struct es, score es, other	RE, S (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wwn FEM less tha	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           0.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MNN}$ EXTENT OF REVIEW         Extremor:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:	B/ 36 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 Visible No	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           1.4           0.2           -0.6           0.3           OTHEF           Are Ther           Detailed           Poun           cut-o           □ Fallin	<b>S2</b> (BR) <b>2 0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>r</b> Structur ding pot ff, if knov g hazan	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 CARDS ds That ral Evalu ential (ur wn)	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A ation?	Image: Non-State         Non-State           NA         -0.5         -0.6           -0.2         NA         0.5           -0.4         -0.5	VEL           C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 CON R ION	RE, S (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wwn FEM less tha	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           0.0           0.6           -0.3           NA           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 Visible [ No Assumed	W1A           3.2           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           0.4           0.4           0.5	<b>S2</b> (BR) <b>2 0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b> <b>R HAZ</b>	<b>RS, Al</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 <b>CARDS</b> <b>ds That</b> <b>ral Evalu</b> vential (ur wn) ds from ta	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           -0.5         0.5	Image: Non-State         State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.5           -0.4         0.5         -0.4           0.5         -0.4         -0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.64         -0.9         -0.5         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 CON R ed Struc es, unkno es, score es, other o led Nons	RE, S (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bown FEN less tha hazards tructura	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.6           0.7           0.6           0.7           0.6           0.7           0.6           0.7           0.6           0.7           0.8           0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff tt ation Re	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MNN}$ EXTENT OF REVIEW         Extremor:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 : 0.5	W1A 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 ▲ Aeri ■ Ente	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>e Hazan</b> <b>Structu</b> ding pot ff, if knor g hazan ng ogic haza ficant da	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State State           State           (URM (INF))           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R led Struc es, unkno es, score es, other o led Nons es, nonst	RE, S (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2   RED RED Resent I Evalution	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff it s identifie	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b ecomment ad that sho	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch build be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         Exterior:       Partial       Interior:         Drawings Reviewed:       Yes       Soil Type Source:         Geologic Hazards Source:       Contact Person:	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 : 0.5	W1A 3.2 -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 ▲ Aeri ■ Ente	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>e Hazan</b> <b>Structu</b> ding pot ff, if knor ig hazan ng ogic haz	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC (RC SW)           2.0         -1.0           -0.6         -0.7           -0.6         0.6           0.1.9         0.6           -0.1         -0.6           0.5         -0.7	Image: Non-State State           State           (URM (INF))           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         0.9         0.4         0.0         -0.5         0.3	1 SCO (SW) 2.0 -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 2.1 0.5 0.0 -0.7 0.3 TON R ed Struc es, score es, score s, other o de Nons es, nonstru o, nonstru	RE, S (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev base that hazards tructural h	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.2 2.0 0.2 NA 0.2 RED aluatio 1A build MA build	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff tt s identific exist tha	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b ecomment ad that shot t may req	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch build be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:       Contact Person:         LEVEL 2 SCREENING PERF	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 : 0.5	W1A       3.2       -1.2       -0.7       -1.0       1.9       0.3       0.2       -0.6       0.9   Aerit       ■ Ente	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21           -1.0           -0.6           -0.8           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>e Hazan</b> <b>Structu</b> ding pot ff, if knor g hazan ng ogic haza ficant da	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.1           0.2           NA           0.6	S4         (RC (RC SW)           2.0         -1.0           -0.6         -0.7           -0.6         0.7           0.6         -0.1           0.6         -0.1           -0.6         0.5	Image: Non-State State           State           (URM (INF))           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3         Detail         □ Y(1)         □ N.         Detail         □ Y(1)         □ Y(1)	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R led Struc es, unkno es, score es, other o led Nons es, nonst	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bwn FEM less tha hazards tructural h aluation	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 -0.3 0.2 RED aluatio MA build MA build hazards is not n	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2  n Requi ling type ff t t ation Re s identific exist tha necessar	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b ecomment ad that shot t may req y	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> ( <i>ch</i> build be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNot         C2       Kiow         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMM       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:       Contact Person:       Contact Person:         LEVEL 2 SCREENING PERF       Yes, Final Level 2 Score, $S_{L2}$ 0.2	B/ W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 : 0.5 All Sides [ Visible [ No Assumed DOGAMI	W1A -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9 ○ Aeri Ente	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           1.4           0.2           -0.6           0.5   OTHEF Are Ther Detailed Poun cut-o Fallin buildi Geok Signi the s	<b>S2</b> (BR) <b>2 0</b> -1.0 -0.6 0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>R HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.2           NA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	Image: Non-State State         State           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.4           0.5         -0.4         -0.5           cent         F         n           r         n         to	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.7 2.1 0.5 0.0 -0.7 2.1 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.8 -0.7 0.3 -0.6 -0.8 -0.7 0.3 -0.6 -0.8 -0.7 0.3 -0.6 -0.8 -0.7 0.3 -0.7 0.3 -0.6 -0.7 0.3 -0.6 -0.8 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 -0.7 0.3 -0.7 -0.7 -0.7 -0.7 -0.3 -0.7 -0.7 -0.7 -0.3 -0.7 -0.7 -0.7 -0.3 -0.7 -0.7 -0.7 -0.3 -0.7 -0.7 -0.7 -0.3 -0.7 -0.7 -0.7 -0.3 -0.7 -0.7 -0.3 -0.7 -0.7 -0.3 -0.7	RE, S           C3           (URM)           INF)           1.2           -0.7           -0.4           -0.5           -0.1           NA           0.3           -0.2           -0.3           0.3           -0.2           -0.3           0.3           etau           Less tha           hazards           tructural           uctural h           aluation           structural	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio I Evalu hazards azards is not n nl hazard	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff t t t t t t t t t t t t t t t t t t	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b ecomment ed that shot t may req y field	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch puld be ev uire mitig.	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE C2       DoNot Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (> 3 stories)       Soil Type E (> 3 stories)         Minimum Score, Sum       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW       Exterior:         Partial       Interior:         Drawings Reviewed:       Yes         Soil Type Source:       Contact Person:         Contact Person:       ExterIor         Image: State Provide Person:       Yes         Soil Type, Sinal Level 2 Score, $S_{L2}$ 0.2         Nonstructural hazards?       Yes	B/           W1           3.6           -1.2           -0.7           -1.1           -1.1           -0.3           1.1           :           O.3           1.1           :           -0.3           1.1           :           O.5	W1A         3.2         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2           -1.2           -0.7           -1.0           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           21           -1.0           -0.6           1.4           0.2           -0.6           0.3           OTHEF           Are Ther           Detailed           Poun           cut-o           Fallin           buildi           Geok           Signi           the s	<b>S2</b> (BR) <b>20</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>R HAZ</b> <b>B HAZ</b> <b>B HAZ</b> <b>C HAZ</b>	RS, AI           S3           (LM)           2.6           -1.1           -0.7           -0.9           -0.8           1.1           0.2           NA           0.6	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.9         0.6           -0.1         -0.6           0.5         0.5	ST         URM           0.5         -0.6           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         0.5           -0.4         0.5           -0.7         -0.4           0.7         -0.4	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	1 SCO C2 (SW) -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.7 0.3 -0.6 -0.7 0.7 0.7 0.3 -0.6 -0.7 0.7 0.3 -0.6 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7 -0.7 0.3 -0.7	RE, S C3 (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev bwn FEN less tha hazards tructural I uctural h aluation structural ble data MH	PC1           PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.3           NA           0.2   RED aluatio Abuild nct-outpace nct-	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requi ling type ff t t t t t t t t t t t t t t t t t t	(FD) 1.7 -0.9 -0.5 2.1 0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b ecomment ad that shut t may req y filed [ Do Not K fourther boxed by the file of the file	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch puld be ev uire mitig.	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

## Level 2 (Optional) **B HIGH Seismicity**

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Knott Elementary School (Knott Creek)	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -0.8$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.3$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE					
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)				Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to	o the other			-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the build				-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.	0			-0.6	
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening with	nout a stee	moment fra	ame,		
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, u				-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking					
	maximum)	length of the building.				-1.2	
	]	Non-W1 building: Length of lateral system at any story is less than 50% of that at stor	ry above o	r height of a	ny		
	]	story is more than 2.0 times the height of the story above.				-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of the	hat at story	above or he	eight		
		of any story is between 1.3 and 2.0 times the height of the story above.				-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the s	story below	v causing the	e		
	ļ	diaphragm to cantilever at the offset.				-1.0	
	]	Vertical elements of the lateral system at upper stories are inboard of those at lower s				-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the				-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line	e in the late	eral system l	have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.				-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half	of the dep	oth of the spa	andrel,		
		or there are infill walls or adjacent floors that shorten the column.				-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.				-0.5	0
	Other	There is another observable severe vertical irregularity that obviously affects the build				-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building				-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or bo	oth direction	ns. (Do not			
Irregularity, PL2		V1A open front irregularity listed above.)				$\bigcirc \mathcal{D}$	
		system. There are one or more major vertical elements of the lateral system that are no			her.	-0.4	
		prner: Both projections from an interior corner exceed 25% of the overall plan dimension				$\bigcirc 4$	
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphra	agm width	at that level	•	-0.2	11
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.		-		-0.4	$P_{L2} = -1.1$
		arity: There is another observable plan irregularity that obviously affects the building's se	eismic per	formance.		-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.				+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		-1.0	
		1% of the height of the shorter of the One building is 2 or more stories taller than the	e otner.	pounding		-1.0	
00 D " "		adjacent structure and: The building is at the end of the block.		modifiers	at -1.2)	-0.5	
S2 Building		eometry is visible.				-1.0	
C1 Building		rves as the beam in the moment frame.	(D)			-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain ber	naing. (Do	not compine	e with	+0.3	
		nark or retrofit modifier.) has closely spaced, full height interior walls (rather than an interior space with few walls			>	.0.0	
PC1/RM1 Bldg URM	Gable walls		such as li	n a warenou	se).	+0.3	
MH						+1.2	
		upplemental seismic bracing system provided between the carriage and the ground.				+1.4	M= 0
Retrofit		sive seismic retrofit is visible or known from drawings.					
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 0.2	_			Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performa					
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is requ	lired indep	endent of th	e buildin	g's score	×
OBSERVARI		UCTURAL HAZARDS					
Location		Check "Yes" or "No")	Ye	s No		Com	ment
Exterior		unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	16	5 NU X		5011	
		vy cladding or heavy veneer.		x	-		
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supporte	bd	x	-		
		unreinforced masonry appendage over exit doors or pedestrian walkways.		x			
		gn posted on the building that indicates hazardous materials are present.		x			
		Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chimn	AV	x			
		and exterior penetrust und felling bezerd:	~y.				

There are hollow clay tile or brick partitions at any stair or exit corridor. Other observed interior nonstructural falling hazard:

Other observed exterior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

Detential nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended ■ Nonstructural hazards identified with significant threat to occupant life safety → But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -No Detailed Nonstructural Evaluation required

Comments:

Interior

х

FEMA P-154 Data Collection Form

# Level 1 A HIGH Seismicity

		-						_	0635 NE Pres Portland, C	<u>я</u>					Zip: <sub>9722</sub>	C		
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* 3000			-		the a	deres a	Use											
	and a summer	Conception of the local division of the loca	1						5.5550043	-				ude:	122,5529517			
							Ss:			-			S₁:			0.270		
	1				Charles and				KNT	-					ne: <u>8/16</u>			
	-	-					No. Tota	Stories: al Floor	Area (so	e Grade	200	Belo	w Grad	e: <u> </u>	_ Yea	r Built: e Year:	1964 Unknown	EST
															-		_	
	<		T	1			Occ	upancy		embly istrial ty	Comme Office Wareho		School	Services ntial, #L	3	istoric overnmer	□ Shel nt	ter
			1799				Soil	Type:	Hard Rock	Avg Rock	Den: Soi	se St	tiff	Soft		NK DNK, ass	ume Type	e D.
			-	a	500 A 10	-Pai	Geo	logic Ha	azards:	Liquefac	tion: Yes	/No/DN	K Land	slide: Ye	s/No/DNK	Surf. R	upt.: Yes/	No/DNK
	11116	A	1	+		14	2	acency:			ounding				from Talle			
	0	-	-	-		19724		gularitie	with a part of the		ertical (ty an (type)		ity) parallel s	ystems				
	Parkr	setscrool	District					erior Fal ards:	ling		nbraced arapets		/S	and the second se	eavy Clad opendage	•	eavy Ver	neer
	1			-		-	-	MMENT		0	ther:							
		C																
		С				- Car		Addition	al sketch	es or con	nments c	on separa	ate page	9				
			ASIC	SCOF	RE, MOI	DIFIE			al sketch					9				
FEMA BUILDING TYPE W2			ASIC W1A	SCOF W2	RE, MOI	DIFIE S2 (BR)		ND FIN	S5 (URM					PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	MH
FEMA BUILDING TYPE W2 Basic Score	SKE	8. W1	W1A	W2	S1 (MRF) 2.1	S2 (BR)	RS, AN S3 (LM) 2.6	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	C1 (MRF) 1.5	C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE N2 Basic Score Severe Vertical Irregularity, VL1	SKE	B. W1 3.6 -1.2	W1A 3.2 -1.2	W2 -1.2	S1 (MRF) 2.1 -1.0	S2 (BR) 2.0 -1.0	RS, AN S3 (LM) 2.6 -11	ND FIN (RC SW) 2.0 1.0	S5 (URM INF) 1.7 -0.8	<b>VEL</b> 2 (MRF) 1.5 -0.9	C2 (SW) 2.0 -1.0	C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) <b>1.7</b> -0.9	(RD) <b>1.7</b> -0.9	<b>1.0</b> -0.7	1.5 NA
FEMA BUILDING TYPE N2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1	SKE	8. W1	W1A	W2 -1.2 -0.7 -1.0	S1 (MRF) 2 21 -1.0 -0.6 -0.8	S2 (BR)	RS, AN S3 (LM) 2.6	ND FIN (RC SW) 2.0	S5 (URM INF) 1.7	C1 (MRF) 1.5	C2 (SW) 2.0	RE, S C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE N2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code	SKE	B. W1 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> 3.2 -1.2 -0.7 -1.0 -1.0	W2 -1.2 -0.7 -1.0 -0.9	S1 (MRF) 2.1 -1.0 -0.6 -0.8 -0.8 -0.6	S2 (BR) -1.0 -0.6 -0.7 -0.6	<b>RS, AN</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	<b>1.5</b> NA NA NA -0.1
FEMA BUILDING TYPE N2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark	SKE	B. W1 3.6 -1.2 -0.7 -1.1	<b>W1A</b> 3.2 -1.2 -0.7 -1.0	W2 -1.2 -0.7 -1.0	S1 (MRF) 2 21 -1.0 -0.6 -0.8	S2 (BR) -1.0 -0.6 -0.7	<b>RS, AN</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6	C1 (MRF) 1.5 -0.9 -0.5 -0.6	C2 (SW) -1.0 -0.6 -0.8	RE, S (URM INF) 1.2 -0.7 -0.4 -0.5	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7	PC2 1.4 -0.9 -0.5 -0.6	(FD) <b>1.7</b> -0.9 -0.5 -0.7	(RD) <b>1.7</b> -0.9 -0.5 -0.7	<b>1.0</b> -0.7 -0.4 -0.4	1.5 NA NA NA
FEMA BUILDING TYPE N2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories)	SKE	<b>B</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	S1 (MRF) 2 1 -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE V2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories)	SKE	<b>B</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 <b>-</b> 0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6	<b>RS, AI</b> <b>33</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	ND FIN S4 (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5	<b>SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
<b>FEMA BUILDING TYPE</b> <b>V2</b> <b>Basic Score</b> Severe Vertical Irregularity, V <sub>L1</sub> Moderate Vertical Irregularity, V <sub>L1</sub> Pre-Code Post-Benchmark Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, S <sub>MIN</sub>	SKE DoNot Kaow	<b>B</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 <i>1.1</i>	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	S1 (MRF) 2 1 -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	RS, AI S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0	<b>SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE M2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL	SKE DoNot Kaow	<b>B</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 <i>1.1</i>	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6 0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	<b>VEL</b> (MRF) <b>1.5</b> -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE N2 Basic Score Severe Vertical Irregularity, VL1 Moderate Vertical Irregularity, VL1 Plan Irregularity, PL1 Pre-Code Post-Benchmark Soil Type A or B Soil Type A or B Soil Type E (1-3 stories) Soil Type E (> 3 stories) Minimum Score, SMIN FINAL LEVEL 1 SCORE, SL EXTENT OF REVIEW	SKE DoNot Know	<b>B</b> <b>3.6</b> -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 <i>1.1</i> <b>1.0</b>	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5	S5         (URM INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3	C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         MODE         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL         EXTENT OF REVIEW         Exterior:       Partia	SKE DoNot Know 1≥ Smin: al ■ A	B -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 VII Sides	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6 0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6 0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZ</b> Hazard	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS Is That 1	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Frigger A	S5         (URM INF)           1.7         -0.8           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.4         0.5	C1 (MRF) 1.5 -0.9 -0.5 -0.6 -0.4 1.9 0.4 0.0 -0.5 0.3 ACT Detaile	C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 2.1 0.5 0.0 -0.7 2.3 0.0 -0.7 2.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 Requir	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         N2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (> 3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL         EXTENT OF REVIEW         Exterior:       Partia         Interior:       None         Drawings Reviewed:       Yes	SKE DoNot Know 1 ≥ Smin: al	B -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 7.1 1.0 VII Sides /isible lo	W1A           32           -1.2           -0.7           -1.0           1.9           0.3           0.2           -0.6           0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2         1           -1.0         -0.6           -0.6         -0.6           1.4         -0.2           -0.6         0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6 0.5 <b>HAZ</b> Hazaro Structur	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS is That 1 al Evalu ential (un	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A ation?	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	SCO           C2           (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.3	RE, S, (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wwn FEM less tha	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildi n cut-of	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         V2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Vinimum Score, SMIN         FINAL LEVEL 1 SCORE, SL         EXTENT OF REVIEW         Exterior:       Partian         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:	SKE DoNot Know 1 ≥ Smin: al	B -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 VII Sides /isible	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.6           -0.6           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 -0.7 -0.6 -0.4 -0.4 -0.6 0.5 <b>HAZZ</b> <b>CHAZ</b>	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS is That T al Evalu ential (un vn)	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           0.5           -0.4           -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.64           -0.9           0.4           0.0           0.55           0.64           0.9           0.4           0.0           0.5           0.3	SCO           C2           (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S, (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wwn FEM less tha	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildi n cut-of	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         N2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (2-3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL         EXTENT OF REVIEW         Exterior:       Partia         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:	SKE DoNot Know 1 ≥ Smin: al	B -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 NII Sides /isible Jo surred	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.6           -0.6           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 -0.7 -0.6 -0.4 -0.6 -0.4 -0.6 0.5 <b>HAZ2</b> Characteristics Charact	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS is That T al Evalu ential (un vn)	ND FIN S4 (RC SW) 2.0 -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 0.5 Trigger A ation?	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           0.5           -0.4           -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           0.3	SCO           C2         (SW)           2.0         -1.0           -0.6         -0.7           0.5         0.0           -0.7         0.3	RE, S, (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wwn FEM less tha hazards	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation A buildi n cut-of present	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         M2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMIN         FINAL LEVEL 1 SCORE, SL         EXTENT OF REVIEW         Exterior:       Partia         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:	SKE DoNot Know 1 ≥ Smin: al	B W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 VII Sides VII Sides VII Sides VII Sides VII Sides	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21 -1.0 -0.6           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 -0.6 -0.4 -0.6 -0.5 <b>E HAZZ</b> Hazarco Etructur ling poto y hazarco gig fotov	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ARDS ARDS Is That 1 al Evalu ential (un vn) is from ta ards or S	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           0.5         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1           (MRF)           1.5           -0.9           -0.5           -0.64           1.9           0.4           0.0           -0.55           0.3	SCO           C2         (SW)           2.0         -1.0           -1.0         -0.6           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S, (URM (INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev wwn FEM less tha hazards	PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildi n cut-of present	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed?	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMMV         FINAL LEVEL 1 SCORE, SL         EXTENT OF REVIEW         Exterior:       Partial         Interior:       W None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       LEVEL 2 SCREENING	SKE DoNot Know 1 ≥ Smin: al ■ A N As PERFC	B W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 VII Sides VII Sides VII Sides VII Sides VII Sides	<ul> <li>₩1A</li> <li>32</li> <li>-1.2</li> <li>-0.7</li> <li>-1.0</li> <li>-1.0</li> <li>1.9</li> <li>0.3</li> <li>0.2</li> <li>-0.6</li> <li>0.9</li> </ul>	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21 -1.0 -0.6           -0.6           0.4           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 -0.6 -0.4 -0.6 -0.5 <b>E HAZZ</b> Hazarco Etructur ling poto y hazarco gig fotov	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS is That 1 al Evalu ential (un vn) is from ta ards or S mage/de	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           -0.5         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1         (MRF)         1.5         -0.9         -0.5         -0.64         -0.9         0.4         0.0         0.5         0.6         0.7         0.8         0.9         0.4         0.0         0.5         0.3	C2         (SW)           2.0         -1.0           -0.6         -0.8           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev wwn FEW less tha hazards tructural h	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluation IA buildin n cut-of present I Evaluation LEVAL	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 <b>n Requin</b> ng type f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 eed? or other b commen d that shot may requ	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> ( <i>ch</i> puld be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMM         FINAL LEVEL 1 SCORE, SL         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       LEVEL 2 SCREENING         Image:       Yes, Final Level 2 Score, SL	SKE DoNot Know 1 ≥ Smin: al ■ A N As PERFC	B W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 VII Sides VII Sides VII Sides VII Sides VII Sides	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           21 -1.0 -0.6           -0.6           0.4           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZ2</b> <b>HAZ2</b> <b>Hazarc</b> <b>tructur</b> ling poto i; if know y hazarc 19g gic hazz	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS is That 1 al Evalu ential (un vn) is from ta ards or S mage/de	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           0.5         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           Cent           F	C1         (MRF)         1.5         -0.9         -0.5         -0.6         -0.4         1.9         0.4         0.0         -0.5         0.3	SCO           C2           (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev less tha hazards tructural I uctural h aluation	PC1           (TU)           1.6           -1.0           -0.6           -0.7           -0.5           2.0           0.6           -0.7           Image: Comparison of the state	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ing type of t ation Re identifie exist thal ecessary	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 ed? or other b commen d that shot may requ	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding <b>ded?</b> ( <i>ch</i> puld be ev	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE         W2         Basic Score         Severe Vertical Irregularity, VL1         Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1         Pre-Code         Post-Benchmark         Soil Type A or B         Soil Type E (1-3 stories)         Soil Type E (> 3 stories)         Minimum Score, SMM         FINAL LEVEL 1 SCORE, SL         Exterior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:         Contact Person:       LEVEL 2 SCREENING         Image:       Yes, Final Level 2 Score, SL	SKE DoNot Know 1 ≥ Smin: 1 ≥ Smin: 1 ≥ Smin: 1 ≥ Smin: 2 0.6 Yes	B w1 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 1.0 NII Sides /isible JogAMI	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           -1.0           -0.6           -0.6           -0.6           -0.6           1.4           -0.2           -0.6           0.5	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 -0.4 -0.4 -0.6 0.5 <b>HAZ2</b> <b>C</b> <b>HAZ2</b> <b>C</b> <b>HAZ2</b> <b>C</b> <b>HAZ2</b> <b>C</b> <b>HAZ2</b> <b>C</b> <b>HAZ2</b> <b>C</b> <b>HAZ2</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b> <b>C</b>	RS, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 ARDS ARDS ARDS is That T al Evalu ential (un vn) is from ta ards or S mage/de system	S4         (RC           SW)         2.0           -1.0         -0.6           -0.7         -0.6           0.6         -0.7           0.6         0.5	NAL LE           S5           (URM INF)           1.7           -0.8           -0.5           -0.6           -0.2           NA           0.5           -0.4           -0.5           -0.4           0.5           -0.4           -0.5	C1           (MRF)           1.5           -0.9           -0.5           -0.64           -0.9           -0.5           0.4           0.0           0.5           0.3           Detaild           □ Yee           □ Not           Detaild           □ Yee           □ Not           □ Not	C2         (SW)           2.0         -1.0           -0.6         -0.8           -0.7         2.1           0.5         0.0           -0.7         0.3	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev wwn FEM less tha hazards tructural h aluation structurar	PC1 (TU)           1.6           -1.0           -0.6           -0.7           0.6           -0.3           NA           0.2   RED aluation taluation tala building neut-of present talatards azards azard	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 A Requir ng type f t ation Re identifie exist that ecessary ds identifi	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 eed? or other b commen d that shot may requ fied	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch build be ev uire mitig	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

## Level 2 (Optional) A HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose District Office	Final Level 1 Score:	$S_{L1} = 1.0$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -1.0$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 2.0$	

Торіс		RS TO ADD TO ADJUSTED BASELINE SCORE If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other		1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building		er	-0.3	
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	{
	and/or	W1 house over garage: Underneath an occupied story, there is a garage opening without	a steel m	oment frame	0.0	{
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1			-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov				ĺ
	, maximum)	length of the building.			-1.2	
	Í	Non-W1 building: Length of lateral system at any story is less than 50% of that at story at	oove or h	eight of any		ĺ
		story is more than 2.0 times the height of the story above.		• •	-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story at	ove or height		
		of any story is between 1.3 and 2.0 times the height of the story above.			-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	/ below ca	ausing the		]
		diaphragm to cantilever at the offset.		-	-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower storie	es.		-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the elements	ments.		-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t	the latera	system have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	he depth	of the spandrel		
		or there are infill walls or adjacent floors that shorten the column.			-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	0
	Other	There is another observable severe vertical irregularity that obviously affects the building's			-1.0	$V_{L2} = 0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or both d	irections.	(Do not		
Irregularity, P <sub>L2</sub>		V1A open front irregularity listed above.)			-0.7	
		system: There are one or more major vertical elements of the lateral system that are not ort			$\bigcirc 4$	
		prner: Both projections from an interior corner exceed 25% of the overall plan dimension in t			-0.4	
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	width at	that level.	-0.2	0.4
		ing out-of-plane offset: The exterior beams do not align with the columns in plan			-0.4	$P_{L2} = \frac{-0.4}{-0.4}$
<u> </u>		arity: There is another observable plan irregularity that obviously affects the building's seism	nc perform	nance.	-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.		(0 + - + -	+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		
		1% of the height of the shorter of the One building is 2 or more stories taller than the other of the shorter o		pounding	-1.0	
00 D 11	-	adjacent structure and: The building is at the end of the block.		modifiers at -1.2	/	
S2 Building		eometry is visible.			-1.0	
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending nark or retrofit modifier.)	g. (Do no	compine with	+0.3	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	h ao in a	worobouro)	+0.3	
URM	Gable walls		as in a	warenouse).	-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.			+1.2	
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	M=
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : 0.6			(Transfer	to Level 1 form)
		deterioration or another condition that negatively affects the building's seismic performance:				
if yes, describe tr	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	i inaepen	dent of the build	aing's score	
OBSERVABL	F NONSTR	UCTURAL HAZARDS				
Location		Check "Yes" or "No")	Yes	No	Com	ment
Exterior	,	unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.	103	x	0011	
Exterior		vy cladding or heavy veneer.	x		Bricks	/eneer
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	Ê	x	DICK	
		unreinforced masonry appendage over exit doors or pedestrian walkways.	+	x		
		gn posted on the building that indicates hazardous materials are present.	+	x		
		ler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.	1	x		
		and exterior penetructural felling becard:	+			

Other observed interior nonstructural falling hazard:

Other observed exterior nonstructural falling hazard:

Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Potential nonstructural hazards with significant threat to occupant life safety —>Detailed Nonstructural Evaluation recommended
Nonstructural hazards identified with significant threat to occupant life safety —>But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety ->No Detailed Nonstructural Evaluation required

Comments:

Interior

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## Rapid Visual Screening of Buildings for Potential Seismic Hazards FEMA P-154 Data Collection Form

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FEMA BUILDING TYPE DoNo C1 DoNo	B	ASIC W1A	SCOR W2	S1	IFIER S2 (BR)	-			VEL <sup>2</sup> C1 (MRF)	1 SCO C2 (SW)	<b>RE, S</b> , C3 (URM INF)	L1 PC1 (TU)	PC2	<b>RM1</b> (FD)	<b>RM2</b> (RD)	URM	МН
FEMA BUILDING TYPE DoNo C1 Kiov Basic Score	B 1 W1 2 3.6	W1A	W2	S1 (MRF) 2.1	S2 (BR) 2.0	S, AN S3 (LM) 2.6	ND FIN 84 (RC SW) 2.0	S5 (URM INF) 1.7	VEL 2 (MRF)	1 SCO (SW) 2.0	RE, S, C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	1.0	1.5
FEMA BUILDING TYPE DoNo C1 DoNo Basic Score Severe Vertical Irregularity, VL1	B t W1	W1A 3.2 -1.2	W2 2.9 -1.2	S1 (MRF) 2.1 -1.0	S2 (BR) 2.0 -1.0	S3 (LM)	S4 (RC SW) 2.0 1.0	<b>S5</b> (URM INF) <b>1.7</b> -0.8	C1 (MRF) (1.5 -0.9	1 SCO C2 (SW)	RE, S C3 (URM INF) 1.2 -0.7	L1 PC1 (TU) 1.6 -1.0	PC2	(FD) <b>1.7</b> -0.9	(RD) <b>1.7</b> -0.9		1.5 NA
FEMA BUILDING TYPE         DoNo           C1         Kiov           Basic Score         Severe Vertical Irregularity, VL1           Moderate Vertical Irregularity, VL1         Plan Irregularity, PL1	B W1 3.6 -1.2	W1A	W2	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6	S2 (BR) 2.0	S3 (LM) 2.6 -1.1	ND FIN 84 (RC SW) 2.0	S5 (URM INF) 1.7	VEL 2 C1 (MRF) 1.5 0.9 0.5 0.6	1 SCO (SW) 2.0 -1.0	RE, S, C3 (URM INF) 1.2	L1 PC1 (TU) 1.6	PC2	(FD) 1.7	(RD) 1.7	<b>1.0</b> -0.7	1.5
FEMA BUILDING TYPE     DoNo       C1     Kiov       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code	B t W1 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6	<b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	VEL C1 (MRF) (15) 0.9 0.5 (0.6) (0.4)	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	1.5 NA NA NA -0.1
FEMA BUILDING TYPE         DoNo           C1         Kiov           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Pre-Code	B t W1 3.6 -1.2 -0.7 -1.1 -1.1 1.6	<b>W1A</b> 3.2 -1.2 -0.7 -1.0 -1.0 1.9	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2	<b>S1</b> (MRF) <b>2.1</b> -1.0 -0.6 -0.8 -0.6 1.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4	<b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9	<b>IAL LE</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA	VEL (MRF) 15 0.9 0.5 0.6 0.4 1.9	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1 NA	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1	<b>1.0</b> -0.7 -0.4 -0.4 0.0 NA	<b>1.5</b> NA NA -0.1 1.2
FEMA BUILDING TYPE     DoNo       C1     Kiov       Basic Score     Severe Vertical Irregularity, VL1       Moderate Vertical Irregularity, VL1     Plan Irregularity, PL1       Plan Irregularity, PL1     Pre-Code	B t W1 3.6 -1.2 -0.7 -1.1 -1.1	<b>W1A</b> <b>3.2</b> -1.2 -0.7 -1.0 -1.0	<b>W2</b> -1.2 -0.7 -1.0 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6	<b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2	VEL C1 (MRF) (15) 0.9 0.5 (0.6) (0.4)	<b>C2</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7	<b>RE, S</b> (URM INF) <b>1.2</b> -0.7 -0.4 -0.5 -0.1	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5	PC2 1.4 -0.9 -0.5 -0.6 -0.3	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5	<b>1.0</b> -0.7 -0.4 -0.4 0.0	1.5 NA NA NA -0.1
FEMA BUILDING TYPE         DoNo           C1         Kiov           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)	B 4 W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6	<b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	<b>S4</b> (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	VEL -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.4 1.9 0.4 0.0 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         DoNo           C1         Kiov           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)           Minimum Score, Smin         Minimum Score, Smin	B . W1 	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4	<b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1	<b>IAL LE</b> <b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4	VEL (MRF) 0.9 0.5 0.6 0.4 1.9 0.4 0.0	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2	1.5 NA NA -0.1 1.2 0.3 -0.4
FEMA BUILDING TYPE         DoNo           C1         Kiov           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)	B . W1 	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.4 -0.6	<b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA	<b>S4</b> (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	VEL -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.4 1.9 0.4 0.0 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5 -0.9 -0.5	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE         DoNo           C1         Kiov           Basic Score         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code           Post-Benchmark         Soil Type A or B           Soil Type E (1-3 stories)         Soil Type E (> 3 stories)           Minimum Score, Smin         Minimum Score, Smin	B . W1 	<b>W1A</b> -1.2 -0.7 -1.0 -1.0 1.9 0.3 0.2 -0.6	<b>W2</b> -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	<b>S1</b> (MRF) <b>21</b> -1.0 -0.6 -0.8 -0.6 1.4 0.4 -0.2 -0.6	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5	<b>S, AN</b> <b>S3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6	<b>S4</b> (RC SW) -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6	<b>S5</b> (URM INF) <b>1.7</b> -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4	VEL (MRF) -0.9 -0.5 -0.6 -0.9 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	<b>1 SCO</b> (SW) <b>2.0</b> -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4	(FD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2	<b>1.5</b> NA NA -0.1 1.2 0.3 -0.4 NA
FEMA BUILDING TYPE     DoNo       C1     Kiow       Basic Score     Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code       Post-Benchmark     Soil Type A or B       Soil Type E (1-3 stories)     Soil Type E (> 3 stories)       Minimum Score, $S_{MIN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MI}$ EXTENT OF REVIEW	B 3.6 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 w: 0.5 Visible	W1A         3.2         -1.2         -0.7         -1.0         -1.0         0.3         0.2         -0.6         0.9	<b>w2</b> -1.2 -0.7 -1.0 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5	<b>S2</b> (BR) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZZA</b> Hazards ructura ng pote	S, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.2 NA 0.6 ARDS S That T I Evalua ntial (un n)	<b>S4</b> (RC SW) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.9 0.6 -0.1 -0.6 -0.1 -0.6 -0.1 -0.6 -0.5	International         International           State         -0.6           -0.5         -0.6           -0.2         NA           0.5         -0.4           -0.5         -0.4           -0.5         -0.4	VEL         C1         (MRF)         1.5         -0.9         -0.5         0.6         0.4         0.0         -0.5         0.4         0.0         -0.5         0.4         0.7         0.8         0.7         0.8         0.9         0.4         0.0         0.5         0.3	1 SCO (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struct es, score es, other o	RE, S, (URM (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev by n FEN less tha hazards	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED RED	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir fing type of find the final second	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 red? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNo         C1       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, $S_{MN}$ FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MI}$ Exterior:         Partial       Interior:       None         Drawings Reviewed:       Yes       Soil Type Source:         Geologic Hazards Source:       Contact Person:       Contact Person:	B * W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 w: 0.5 Visible No Assumed DOGAM	<ul> <li>₩1A</li> <li>32</li> <li>-1.2</li> <li>-0.7</li> <li>-1.0</li> <li>1.9</li> <li>0.3</li> <li>0.2</li> <li>-0.6</li> <li>0.9</li> </ul>	w2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5   OTHER I Are There H Detailed Str Cut-off, i Falling H Building Geologi	<b>S2</b> (BR) <b>20</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZ</b> A lazards ructura ng pote if know hazards ic hazal	<b>S</b> , <b>AN</b> <b>S</b> <b>3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.1 0.2 NA 0.6 <b>ARDS</b> <b>5</b> That T <b>1</b> Evaluation <b>1</b> Evaluation <b>1</b> S from tailor to solve the solvet	S4         RC           SW)         2.0           -1.0         0.6           -0.7         -0.6           1.9         0.6           -0.1         -0.6           0.5	IAL LE S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.6 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5	VEL         C1         (MRF)         1.5         -0.9         -0.5         0.6         0.4         1.9         0.4         0.0         -0.5         0.6         0.7         0.8         0.9         0.15         0.3         ACTI         Details         □ Yee         □ Not         Details	1 SCO C2 (SW) 2.0 -1.0 -0.6 -0.8 -0.7 2.1 0.5 0.0 -0.7 0.3 ION R ed Struc es, score es, other o ed Nons	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev pown FEN less tha hazards tructura	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio A build n cut-or presen I Evalu	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir fing type of fing type of f	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 eed? or other b	(RD) <b>1.7</b> -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNo         C1       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:       Contact Person:       LEVEL 2 SCREENING PERI         Image: Yes, Final Level 2 Score, $S_{L2}$ -0.6	B * W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 w: 0.5 Visible No Assumed DOGAM	<ul> <li>₩1A</li> <li>32</li> <li>-1.2</li> <li>-0.7</li> <li>-1.0</li> <li>1.9</li> <li>0.3</li> <li>0.2</li> <li>-0.6</li> <li>0.9</li> </ul>	W2 -1.2 -0.7 -1.0 -0.9 2.2 0.5 0.1 -0.9 0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           0.4           -0.2           -0.6           0.5   OTHER I Are There H Detailed Str Cut-off, i Falling H Building Geologi	<b>S2</b> (BR) <b>20</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZ/A</b> Hazards ructura ng pote if know shazards ic hazar	<b>S</b> , <b>AN</b> <b>S</b> <b>3</b> (LM) <b>2.6</b> -1.1 -0.7 -0.9 -0.8 1.1 0.1 0.2 NA 0.6 <b>ARDS</b> <b>5</b> That T <b>1</b> Evalua ntial (un n) s from ta rds or So nage/def	S4         RC           2.0         -1.0           -0.6         -0.7           0.6         -0.0           0.6         -0.0           0.6         -0.1           -0.6         0.5	IAL LE S5 (URM INF) 1.7 -0.8 -0.5 -0.6 -0.2 NA 0.5 -0.4 -0.4 0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.6 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5 -0.5 -0.5 -0.5 -0.4 -0.5	VEL         C1         (MRF)         0.9         0.5         0.6         0.4         0.9         0.5         0.6         0.4         0.0         0.5         0.6         0.7         0.8         0.9         0.5         0.6         0.7         0.8         0.9         0.0         0.5         0.3         Detaild         Yee         Mode         Yee         Not         Detaild         Yee         Not         Detaild         Yee	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           2.1           0.5           0.0           -0.7           2.1           0.3           ION R           ed Struc           es, unkno           es, score           es, other           0           0	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 EQUIF tural Ev bown FEN less tha hazards tructural I uctural I uctural I uctural I	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio RED aluatio A build n cut-o: presen I Evalu azards is not n	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ling type ff t t ation Re s identifie exist that	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 Pred? or other b commen d that shot t may requ	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch build be ev uire mitig:	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE C1       DoNo         Basic Score       Dono         Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Pre-Code         Pre-Code       Post-Benchmark         Soil Type A or B       Soil Type E (1-3 stories)         Soil Type E (+3 stories)       Soil Type E (> 3 stories)         Minimum Score, SMN       FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MI}$ EXTENT OF REVIEW       Exterior:         Interior:       Partial         Interior:       None         Drawings Reviewed:       Yes         Geologic Hazards Source:       Contact Person:         LEVEL 2 SCREENING PERI       Interior:         Image: Yes, Final Level 2 Score, $S_{L2} \xrightarrow{0.6}$ Nonstructural hazards?       Yes	B W1 -1.2 -0.7 -1.1 -1.1 1.6 0.1 0.2 -0.3 1.1 w: 0.5 Visible No Assumed DOGAM	W1A         3.2         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2           -1.2           -0.7           -1.0           -0.9           2.2           0.5           0.1           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           0.2           -0.6           1.4           0.5   OTHER I Are There H Detailed Str            Detailed Str          Falling H            building            Geologi           Significa            structure	<b>S2</b> (BR) -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZZA</b> Hazards ructura ng pote if know hazards ic hazards	S, AN S3 (LM) 2.6 -1.1 -0.7 -0.9 -0.8 1.1 0.2 NA 0.6 ARDS That T d Evaluantial (un n) s from ta rds or So mage/def ystem	S4         (RC           2.0         -1.0           -0.6         -0.7           0.6         -0.1           -0.6         0.5	Image: Non-Section 1         Non-Section 1           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.5           -0.4         0.5         -0.4           0.5         -0.4         -0.5           cent         F         n           n         to         to	VEL           C1           (MRF)           -0.9           -0.5           -0.6           -0.4           1.9           0.4           0.0           -0.5           -0.3           Detaild           □ Yee           □ Not           Detaild           □ Yee           □ Not	I SCO           C2 (SW)           2.0           -1.0           -0.6           0.7           2.1           0.5           0.0           -0.7           0.3           ION R           ed Struct           es, score           es, other           o           o, nonstrutailed evo, no non	RE, S, (URM INF) 1.2 -0.7 -0.4 -0.5 -0.1 NA 0.3 -0.2 -0.3 0.3 0.3 EQUIF tural Ev bown FEIV less tha hazards tructural h aluation istructural	L1 PC1 (TU) 1.6 -1.0 -0.6 -0.7 -0.5 2.0 0.6 -0.3 NA 0.2 RED aluatio A build n cut-or presen I Evalu mazards azards is not n n la hazard	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ling type ff t t t t t t t t t t t t t t t t t t	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 7 red? or other b commen d that shot t may requ / fied [	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch puld be ev uire mitig.	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0
FEMA BUILDING TYPE       DoNo         C1       Know         Basic Score       Severe Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Moderate Vertical Irregularity, $V_{L1}$ Plan Irregularity, $P_{L1}$ Pre-Code         Post-Benchmark       Soil Type A or B         Soil Type E (1-3 stories)       Soil Type E (> 3 stories)         Soil Type E (> 3 stories)       Minimum Score, SMIN         FINAL LEVEL 1 SCORE, $S_{L1} \ge S_{MIN}$ EXTENT OF REVIEW         EXTENT OF REVIEW       Exterior:       Partial         Interior:       None       Drawings Reviewed:       Yes         Soil Type Source:       Geologic Hazards Source:       Contact Person:       LEVEL 2 SCREENING PERI         Image: Yes, Final Level 2 Score, $S_{L2}$ -0.6	B W1 -1.2 -0.7 -1.1 -1.1 1.6 0.2 -0.3 1.1 w: 0.5 Visible No Assumed DOGAME 	W1A         32         -1.2         -0.7         -1.0         1.9         0.3         0.2         -0.6         0.9	w2           -1.2           -0.7           -1.0           -0.9           2.2           0.5           0.1           -0.9           0.7	S1 (MRF)           2.1           -1.0           -0.6           -0.8           -0.6           1.4           0.2           -0.6           1.4           0.5   OTHER I Are There H Detailed Str            Detailed Str          Falling H            building            Geologi           Significa            structure	<b>S2</b> (BR) <b>2.0</b> -1.0 -0.6 -0.7 -0.6 1.4 0.6 -0.4 -0.6 0.5 <b>HAZZA</b> Hazards ructural spote if know hazards ic hazards nut dam ctural s	S, AN           S3           (LM)           2.6           -1.1           -0.7           -0.8           1.1           0.1           0.2           NA           0.6   ARDS a That T at Evalua ntial (un n) as from ta rds or Sc naage/det ystem a follow.	S4         (RC           2.0         -1.0           -1.0         -0.6           -0.7         -0.6           0.1         -0.6           0.5         -0.7	Image: Non-Section 1         Non-Section 1           1.7         -0.8         -0.5           -0.6         -0.2         NA           0.5         -0.4         -0.5           -0.4         0.5         -0.4           0.5         -0.4         -0.5           cent         F         n           n         to         to	VEL         C1         (MRF)         0.9         0.5         0.6         0.4         0.9         0.5         0.4         0.5         0.3	I SCO           C2 (SW)           2.0           -1.0           -0.6           -0.7           0.5           0.0           -0.7           0.3           ION R           ed Structes, unknowns, score as, other of the set, on structes, non structed, non struc	RE, S,           C3           (URM           INF)           1.2           -0.7           -0.4           -0.5           -0.1           NA           0.3           -0.2           -0.3           0.3           -0.2           -0.3           0.3           exponential back           tructural Evo           back           tructural hazards           tructural haluation           structural haluation           structural haluation	C1     PC1     (TU)     1.6     -1.0     -0.6     -0.7     -0.5     2.0     0.6     -0.3     NA     0.2     C     RED     aluatio     A build     n cut-or     presen     I Evalu     mazards     azards     is not n nal     hazar <u>OR     C     </u>	PC2 1.4 -0.9 -0.5 -0.6 -0.3 2.4 0.4 -0.1 -0.4 0.2 n Requir ling type ff t t t t t t t t t t t t t t t t t t	(FD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.5 0.3 7 red? or other b commen d that shot t may requ fied [ Do Not K	(RD) 1.7 -0.9 -0.5 -0.7 -0.5 2.1 0.5 -0.1 -0.6 0.3 uilding ded? (ch puld be ev uire mitig.	1.0 -0.7 -0.4 -0.4 0.0 NA 0.3 -0.2 -0.2 0.2	1.5 NA NA -0.1 1.2 0.3 -0.4 NA 1.0

FEMA P-154 Data Collection Form

## Level 2 (Optional) B HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose Maintenance Facility	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, $V_{L1} = 0$	Plan Irregularity, $P_{L1} = -0.6$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.1$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	other.		-1.2	
Irregularity, VL2	Site					
	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or W1 house over garage: Underneath an occupied story, there is a garage opening without a steel moment frame,					
	Soft Story	and there is less than 8' of wall on the same line (for multiple occupied floors above, use 1			-1.2	
	(circle one	W1A building open front: There are openings at the ground story (such as for parking) ov				
	maximum)	length of the building.			-1.2	
	ĺ	Non-W1 building: Length of lateral system at any story is less than 50% of that at story above or height of any				
		story is more than 2.0 times the height of the story above.			-0.9	
		Non-W1 building: Length of lateral system at any story is between 50% and 75% of that at story above or height				
		of any story is between 1.3 and 2.0 times the height of the story above.			-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	below ca	ausing the		
		diaphragm to cantilever at the offset.			-1.0	
		Vertical elements of the lateral system at upper stories are inboard of those at lower storie			-0.5	
		There is an in-plane offset of the lateral elements that is greater than the length of the elements			-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t	the latera	system have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	ne depth	of the spandrel,		
	0.1111	or there are infill walls or adjacent floors that shorten the column.			-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.		-	-0.5	10
	Other	There is another observable severe vertical irregularity that obviously affects the building's				$V_{L2} = -1.0$
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or both d	irections.	(Do not	$\bigcirc$	
Irregularity, P <sub>L2</sub>	include the W1A open front irregularity listed above.)					
		Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other.				
	Reentrant co	prner: Both projections from an interior corner exceed 25% of the overall plan dimension in t	nat direct	ion.	-0.4	
		ragm opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm width at that level.			-0.2	$P_{L2} = -0.7$
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.			-0.4	$P_{L2} = $
Dealersalersare		Other irregularity: There is another observable plan irregularity that obviously affects the building's seismic performance.				(Cap at -1.1)
Redundancy	The building has at least two bays of lateral elements on each side of the building in each direction.				+0.3	
Pounding		Expanded from an adjacent structure         The floors do not align vertically within 2 feet.           1% of the height of the shorter of the         One building is 2 or more stories taller than the other stories taller than the stories taller talle		(Cap total pounding	<u>-1.0</u> 1.0	
		adjacent structure and: The building is 2 of more stories tailer than the building is 2 of more stories tailer than the building is at the end of the block.		modifiers at -1.2)		
S2 Building				mouniers at -1.2)	-1.0	
C1 Building		"K" bracing geometry is visible.				
PC1/RM1 Bldg		Flat plate serves as the beam in the moment frame. There are roof-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending. (Do not combine with				
		nark or retrofit modifier.)	y. (D0 110		+0.3	
PC1/RM1 Bldg		has closely spaced, full height interior walls (rather than an interior space with few walls suc	h as in a	warehouse)	+0.3	
URM	Gable walls		11 45 11 4	warehouse).	-0.4	
MH		supplemental seismic bracing system provided between the carriage and the ground.			+1.2	•
Retrofit		rehensive seismic retrofit is visible or known from drawings.			+1.4	M= 0
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}: -0.6$				to Level 1 form)
					(Transler	lo Lever i Tomi)
		deterioration or another condition that negatively affects the building's seismic performance: the comment box below and indicate on the Level 1 form that detailed evaluation is required			na'e ecoro	
ก yes, นอริเกมย์ แ		ano common box below and indicate on the Level 1 form that detailed evaluation is required	nuepen		ny s scule	
OBSERVABL	E NONSTR	UCTURAL HAZARDS				
Location		Check "Yes" or "No")	Yes	No	Com	ment
Exterior		There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.				
		vy cladding or heavy veneer.	1	x		
		eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	1	x		
		Inreinforced masonry appendage over exit doors or pedestrian walkways.	1	x		
		gn posted on the building that indicates hazardous materials are present.	1	x		
		ller adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.	1	x		
	*		÷			

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Nonstructural hazards identified with significant threat to occupant life safety 
 —> But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -No Detailed Nonstructural Evaluation required

Comments:

Interior

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FEMA P-154 Data Collection Form



Level 1

C HIGH Seismicity

FEMA P-154 Data Collection Form

### Level 2 (Optional) C HIGH Seismicity

Optional Level 2 data collection to be performed by a civil or structural engineering professional, architect, or graduate student with background in seismic evaluation or design of buildings.

Bidg Name: Parkrose Maintenance Facility - Garage and Storage	Final Level 1 Score:	$S_{L1} = 0.5$	(do not consider $S_{MIN}$ )
Screener: KNT	Level 1 Irregularity Modifiers:	Vertical Irregularity, V <sub>L1</sub> = 0	Plan Irregularity, $P_{L1} = -0.6$
Date/Time: 8/16/2021	ADJUSTED BASELINE SCORE:	$S' = (S_{L1} - V_{L1} - P_{L1}) = 1.1$	

STRUCTURA		RS TO ADD TO ADJUSTED BASELINE SCORE				
Topic		If statement is true, circle the "Yes" modifier; otherwise cross out the modifier.)			Yes	Subtotals
Vertical	Sloping	W1 building: There is at least a full story grade change from one side of the building to the	e other.		-1.2	
Irregularity, VL2	Site	Non-W1 building: There is at least a full story grade change from one side of the building		er.	-0.3	
, <u>,</u>	Weak	W1 building cripple wall: An unbraced cripple wall is visible in the crawl space.			-0.6	
	and/or					
	Soft Story and there is less than 8' of wall on the same line (for multiple occupied floors above, use 16' of wall minimum).				-1.2	
	(circle one W1A building open front: There are openings at the ground story (such as for parking) over at least 50% of the					
	maximum)	length of the building.			-1.2	
	1	Non-W1 building: Length of lateral system at any story is less than 50% of that at story at	ove or h	eight of any		
	story is more than 2.0 times the height of the story above.			-0.9		
	1	Non-W1 building: Length of lateral system at any story is between 50% and 75% of that a	at story at	ove or height	t	
		of any story is between 1.3 and 2.0 times the height of the story above.			-0.5	
	Setback	Vertical elements of the lateral system at an upper story are outboard of those at the story	/ below ca	ausing the		
	]	diaphragm to cantilever at the offset.			-1.0	
	]	Vertical elements of the lateral system at upper stories are inboard of those at lower storie	es.		-0.5	
	]	There is an in-plane offset of the lateral elements that is greater than the length of the elements	ments.		-0.3	
	Short	C1,C2,C3,PC1,PC2,RM1,RM2: At least 20% of columns (or piers) along a column line in t	the latera	system have		
	Column/	height/depth ratios less than 50% of the nominal height/depth ratio at that level.			-0.5	
	Pier	C1,C2,C3,PC1,PC2,RM1,RM2: The column depth (or pier width) is less than one half of the	he depth	of the spandre		
		or there are infill walls or adjacent floors that shorten the column.			-0.5	
	Split Level	There is a split level at one of the floor levels or at the roof.			-0.5	10
	Other	There is another observable severe vertical irregularity that obviously affects the building's				V <sub>L2</sub> = <u>-1.0</u>
	Irregularity	There is another observable moderate vertical irregularity that may affect the building's se			-0.5	(Cap at -1.2)
Plan		egularity: Lateral system does not appear relatively well distributed in plan in either or both d	irections.	(Do not	00	
Irregularity, PL2		include the W1A open front irregularity listed above.)				
		Non-parallel system: There are one or more major vertical elements of the lateral system that are not orthogonal to each other.				
	Reentrant corner: Both projections from an interior corner exceed 25% of the overall plan dimension in that direction.					
		opening: There is an opening in the diaphragm with a width over 50% of the total diaphragm	i width at	that level.	-0.2	-0.7
		ing out-of-plane offset: The exterior beams do not align with the columns in plan.				$P_{L2} = -0.7$
		arity: There is another observable plan irregularity that obviously affects the building's seism	nic perforr	nance.	-0.7	(Cap at -1.1)
Redundancy		has at least two bays of lateral elements on each side of the building in each direction.			+0.3	
Pounding		eparated from an adjacent structure The floors do not align vertically within 2 feet.		(Cap total		
		1% of the height of the shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of the One building is 2 or more stories taller than the other shorter of taller than the other shorter of taller taller than the other shorter of taller tal		pounding	-1.0	
		adjacent structure and: The building is at the end of the block.		modifiers at -1	-1.0	
S2 Building		bracing geometry is visible.				
C1 Building		rves as the beam in the moment frame.			-0.4	
PC1/RM1 Bldg		of-to-wall ties that are visible or known from drawings that do not rely on cross-grain bending	g. (Do noi	combine with	h +0.3	
		nark or retrofit modifier.)			.0.0	
PC1/RM1 Bldg		g has closely spaced, full height interior walls (rather than an interior space with few walls such as in a warehouse).			+0.3	
URM	Gable walls				-0.4	
MH		upplemental seismic bracing system provided between the carriage and the ground.			+1.2	M=
Retrofit		sive seismic retrofit is visible or known from drawings.			+1.4	
		$S_{L2} = (S' + V_{L2} + P_{L2} + M) \ge S_{MIN}$ : -1.6			(Transfer	to Level 1 form)
There is observal	ble damage or	deterioration or another condition that negatively affects the building's seismic performance:	: 🗌 Ye	es 🔳 No		
If yes, describe th	ne condition in	the comment box below and indicate on the Level 1 form that detailed evaluation is required	Indepen	dent of the bu	ulding's score	
Location		UCTURAL HAZARDS Check "Yes" or "No")	Yes	No		ment
	· · · · · · · · · · · · · · · · · · ·		res	No	Com	ment
Exterior	There is an unbraced unreinforced masonry parapet or unbraced unreinforced masonry chimney.         ×           There is heavy cladding or heavy veneer.         ×					
		vy cladding or neavy veneer. eavy canopy over exit doors or pedestrian walkways that appears inadequately supported.	+			
			+	x		
		unreinforced masonry appendage over exit doors or pedestrian walkways.		x		
		gn posted on the building that indicates hazardous materials are present.		x		
		Iler adjacent building with an unanchored URM wall or unbraced URM parapet or chimney.		X		

Other observed interior nonstructural falling hazard: Estimated Nonstructural Seismic Performance (Check appropriate box and transfer to Level 1 form conclusions)

There are hollow clay tile or brick partitions at any stair or exit corridor.

Other observed exterior nonstructural falling hazard:

Detailed Nonstructural hazards with significant threat to occupant life safety -> Detailed Nonstructural Evaluation recommended

Nonstructural hazards identified with significant threat to occupant life safety -> But no Detailed Nonstructural Evaluation required

Low or no nonstructural hazard threat to occupant life safety -> No Detailed Nonstructural Evaluation required

Comments:

Interior

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# APPENDIX B

FACILITY CONDITION ASSESSMENT

MECHANICAL ELECTRICAL PLUMBING



# Parkrose School District Facility MEP Assessment Report

**Prepared for** 

Parkrose SD & Soderstrom Architects

Presented by

Ameresco, Inc.

September 3, 2021





# Contents

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# General

The Parkrose School District began in 1885 and it's been serving the neighborhood in the northeast section of Portland for more than 135 years. The district currently has nine (9) schools and a district admin/maintenance building complex, which gives a total building area of approximately 707,400 sq.ft. The nine (9) schools include four (4) elementary schools (K-5), one (1) middle school (6-8), one (1) high school (9-12) and three (3) that used to be elementary schools that are now leased buildings.

Ameresco, along with Soderstrom Architects and ZCS Engineering & Architecture, conducted a walk-through of ten (10) facilities in July 2021 to assess facility conditions. This assessment report is limited to documents, readily visible portions of facility MEP systems, and notes based on interviews with District/facility staff during site walk-throughs. This resulting report identifies noted deficiencies and recommended upgrades. All schools were not in session at the time of the visit due to summer break.

#	School Name	Grades Served	Year Built	Additions	Building Area	Address
01	Prescott Elementary School	K-5	1947	1959, 1996, 2014	48,544 SF	10410 NE Prescott St., Portland, OR 97220
02	Russell Elementary School	K-5	1963	1996, 2013	40,036 SF	2700 NE 127th Ave., Portland, OR 97230
03	Sacramento Elementary School	K-5	1960	1960, 1980, 1996, 2013	41,107 SF	11400 NE Sacramento St., Portland, OR 97220
04	Shaver Elementary School	K-5	1963	1996, 2013	43,916 SF	3701 NE 131st Pl., Portland, OR 97230
05	Parkrose Middle School	6-8	2013	N/A	140,000 SF	11800 NE Shaver St., Portland, OR 97220
06	Parkrose High School	9-12	1996	1968 (FAB)	260,497 SF	12003 NE Shaver St., Portland, OR 97220
07	Sumner Elementary / Helensview School*	N/A	1954	1968, 1996, 1998	40,000 SF	8678 NE Sumner St., Portland, OR 97220
08	Thompson Elementary / Wheatley School*	N/A	1958	Data Not Available	40,000 SF	14030 NE Sacramento St., Portland, OR 97230
09	Knott Elementary / Knott Creek School*	N/A	1951	N/A	32,592 SF	11456 NE Knott St., Portland, OR 97220
10	District Admin /Maintenance	N/A	1955	1955, 1963	20,700 SF	10636 NE Prescott St., Portland, OR, 97220

\* District leased building





### The following table shows a summary of items and priority for each school.

	HVAC						Electrical			Plumbing	
School Name	Replace existing old boiler system	Repair Condensing Unit/Chiller	Refurbish AHUs	AHU/HV/RTU/UV/ UH/FF Replacement	Test and retro- commissioning	Control upgrade	Replace old electrical panels	Lighting and lighting control retrofit	Replace water fixtures and water piping for the school	Replace existing old DHW heater	Add fire sprinkler system
Prescott Elementary School											
Russell Elementary School											
Sacramento Elementary School											
Shaver Elementary School											
Parkrose Middle School											
Parkrose High School											
Sumner Elementary / Helensview School*											
Thompson Elementary / Wheatley School*											
Knott Elementary / Knott Creek School*											
District Admin / Maintenance											
	Priority										

Recommended

AHU	 Air Handling Unit
HV	 Heating Ventilating Unit
RTU	 Rooftop Unit
UV	 Unit Ventilator
UH	 Unit Heater
FF	 Forced-air Furnace

DHW --- Domestic Hot Water

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# Facility MEP Assessment

The following assessment is limited to readily visible portions of facility MEP systems based on a walk through and interview with district/facility staff. At the end of each school's section, deficiencies and recommendations are identified along with estimated construction costs for improvements.

# #1 --- Prescott Elementary School

Prescott elementary school is located at 10410 NE Prescott St., Portland, OR 97220. The school was built in 1947 and it's had several renovations and additions since then. The current main school building is a partial two-story building and there is a separated stand-alone classroom building to the south side of the main building. The total area is approximately 48,544 sq.ft. The school includes classrooms, offices, library, computer room, gym, kitchen, multi-purpose room/cafeteria, restrooms, storage, and mechanical/electrical rooms.



# Plumbing

The school uses the city water and sewer system. The plumbing and water fixtures inside the buildings were upgraded in 2013, but the water piping system between the two buildings is still original.

There are two gas-fired tank type domestic hot water heaters to provide domestic hot water for the whole school. One is located in the main building boiler room, and it's a 100-gallon A.O. Smith gas-fired tank heater with 199,000 Btu/hr. of heating capacity that was installed in 2004; the other unit is a 60-gallon A.O. Smith gas-fired tank heater with 125,000 Btu/hr. of heating capacity that was installed in 2002.



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# <u>HVAC</u>

The whole HVAC system was upgraded in a 2013 renovation project. The main building currently has one central heating system that consists of three Aerco gas-fired condensing hot water boilers with and input heating capacity of 750,000 Btu/hr each.



There are two air handling units with heat recovery connected to a central heating loop to provide heating and ventilation for the gym and multi-purpose room. There are three heat recovery ventilators located in the attic to provide fresh air to the hallway, classrooms and offices. One gas-fired make-up air unit on the roof provides heat and ventilation for the kitchen space. The majority of the main building has a heating water radiator system connected to the central heating loop.



The main building has no central mechanical cooling system, but there are two mini-split units on the roof to provide cooling for the computer lab and IT room.



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The stand-alone classroom building is served by 10 packaged rooftop units (RTUs) that use gas-fired furnaces and DX cooling to provide space heating, cooling and ventilation. All units were installed in 2013 as part of the renovation project.



The HVAC control system was upgraded as part of the 2013 project. The main building has a Delta DDC control system that is tied into the district-wide BAS to control all the major HVAC equipment. The separate classroom building has stand-alone programmable thermostats that control the 10 RTUs.



# **Fire Protection**

The main elementary school building has a sprinkler system that receives routine testing and inspection.

# **Electrical**

## *Electrical Service & Distribution*

The school's main distribution panel is in the boiler room and was upgraded in 1987. It's a 1200 A 120/208 V threephase 4-wire Siemens I-T-E switchboard that provides electrical service for the whole school. Most of the subpanels were upgraded as part of 2013 project and those observed in the walk through have enough space for current conditions.







### Lighting

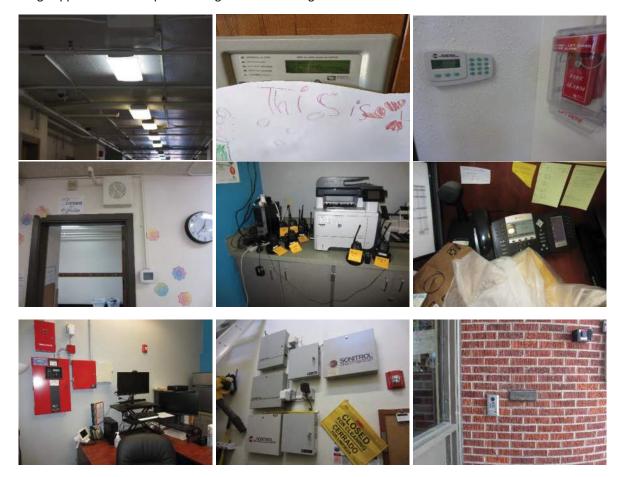
The school's interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electric ballasts. The majority of the spaces use manual wall switches to control the lights, but some occupancy sensors were noticed during the visit in the gym, cafeteria, computer lab and office spaces. There are also incandescent, CFLs and LEDs in certain places.

The exterior lighting is very minimal-there are fixtures over exterior doors and some wall mounts. They are a mixture of CFL and high-intensity discharge (HID) lamps. The current exterior lights are controlled by photocell sensors.

The interior and exterior lighting retrofit is recommended to make school lighting systems consistent/durable, increase student productivity, and reduce energy consumption.

## Communication & Security

The elementary school has an old PA speaker system for operational communications. There was no two-way intercom noticed during the visit. The main office and classrooms have a Polycom IP phone system. The school is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering exterior and interior locations. The fire alarm system is a Honeywell system and covers the whole school building. Wi-Fi coverage appears to be complete throughout the building.







# **Recommendation and Estimated Construction Costs**

Priority and Estimated Construction Costs	
<ul> <li>Interior and exterior lighting and lighting control retrofit to LED</li> <li>Test and retro commissioning the existing HVAC system</li> </ul>	\$110,000 \$22,000
Recommended and Estimated Construction Costs	
Control upgrade for classroom building	\$75,000
Replace old DHWs	\$60,000
Replace plumbing pipe between buildings	\$55,000





# #2 --- Russell Elementary School

Russell elementary school is located at 2700 NE 127<sup>th</sup> Ave., Portland, OR 97230. The school was built in 1963 and it's been through several renovations and additions since then. The latest major addition was to add a multipurpose room in 2013. The current main school building is a single story building and the total area is approximately 40,036 sq.ft. The school includes classrooms, offices, library, computer room, kitchen, gym/cafeteria, multi-purpose room, restrooms, storage, and mechanical/electrical rooms.



# **Plumbing**

The school uses the city water and sewer system. The plumbing and water fixtures were upgraded in 2013 as part of a previous project.

There are a total of five (5) domestic hot water heaters to provide domestic hot water for the whole school. The major one is a 100-gallon Bradford gas-fired tank type heater with 199,999 Btu/hr. of heating capacity. It was installed in 2013 and is located in the kitchen area to serve the majority of the school's hot water. The other four (4) are tank type electric hot water heaters installed in 2013 to serve specific areas.



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# <u>HVAC</u>

There is one central heating system that consists of two Advanced Thermal Hydronics gas-fired condensing hot water boilers with an input heating capacity of 1.6 MMBTU each that were installed in 2013. New heating water pipe for whole school was installed at the same time.



The majority of the school uses hot water unit ventilators (UVs) to provide classroom/office heating and ventilation. There are two heating ventilating units (HVs) in the gym attic space to provide the gym and kitchen heating and ventilation. The exterior entrances, corridor and restrooms use heating water radiators to maintain space temperature. All UVs, HVs and radiators are original to the building and replacement is recommended. There is only one ceiling mount hot water fan coil unit that serves the office at the northeast corner of the school. As part of the 2013 project, a multi-purpose room and office space were added. A Mitsubishi split heat pump on the roof provides cooling and heating to the office space. Two 3.3 ton each Aermec reversible air/water heat pumps on the roof provide chilled/heating water to floor radiant panels for cooling and heating in the multi-purpose room. There is one air-to-air heat recovery unit on the roof to provide ventilation to the office and multi-purpose room.

The school has no central cooling system, but two mini split units were noticed on the roof to provide cooling for the computer lab and IT room.









The HVAC control system was upgraded as part of the 2013 project. The school has a Delta DDC control system that is tied into the district-wide BAS to control all the major HVAC equipment.



# Fire Protection

The majority of the elementary school has a sprinkler system that is under routine testing and inspection. The 2013 multi-purpose area does not have a sprinkler system.

# Electrical

## Electrical Service & Distribution

The majority of the electrical system was upgraded in 2013 and the new main distribution panel is in the boiler room. It is an 800 A 120/208 V three-phase 4-wire Siemens switchboard that provide electrical service for the whole school building. Most of the subpanels were upgraded as a part of projects in 1996 and 2013 and the panels observed in the building have enough space for current conditions.



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### Lighting

The elementary school interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electric ballasts. There are also incandescent, CFLs and LEDs in certain places. A majority of the school spaces use manual wall switches to control the lights but some occupancy sensors were noticed during the visit in the gym, cafeteria, offices and multi-purpose room. There is one Leviton lighting control system currently used to control hallway lights.

The exterior lighting is a mixture of CFL and high-intensity discharge (HID) lamps. Half of the exterior lights are controlled by photocell sensors. The other half are controlled by the same Leviton system that controls the hallway lights. The lighting for the parking lot could be improved by the addition of more light fixtures.

The interior and exterior lighting retrofit is recommended to make the school lighting systems consistent/durable, increase student productivity, and reduce energy consumption.

## Communication & Security

The elementary school has an old PA speaker system for operational communications. There was no two-way intercom noticed during the visit. The main office and classrooms have a Polycom IP phone system. The school is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering exterior and interior locations. The fire alarm system is a Honeywell system and covers the whole school building. Wi-Fi coverage appears to be complete throughout the building.



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# Recommendation and Estimated Construction Costs

Priority and Estimated Construction Costs

<ul> <li>Replace original UVs and HVs</li> </ul>	\$530,000
<ul> <li>Interior and exterior lighting and lighting control retrofit to LED</li> </ul>	\$90,000
Test and retro commissioning the existing HVAC system	\$18,000
Recommended and Estimated Construction Costs	
Add fire sprinkler system for multi-purpose room	\$40,000





# #3 --- Sacramento Elementary School

Sacramento Elementary School is located at 11400 NE Sacramento St., Portland, OR 97220. The school was built in 1960 and it's had several additions/renovations. The latest major mechanical, plumbing and control system renovation was in 2013 as part of a bond project. A new multi-purpose room was added as part of that project as well. The current school building is a single floor building, and its area is approximately 41,107 sq.ft. The school includes classrooms, offices, gym/cafeteria, library, multi-purpose room, restrooms, storage and mechanical/electrical rooms.



# Plumbing

The school uses the city water and sewer system. The plumbing and water fixtures were upgraded in 2013 and the system is in good condition.

There are two gas-fired tank type domestic hot water heaters located in the boiler room to provide building hot water. One unit is a 100-gallon American Standard gas-fired tank heater with 199,000 Btu/hr. of heating capacity that was installed in 2009. The other unit is a 100-gallon Bradford gas-fired tank heater with 199,999 Btu/hr. of heating capacity that was installed in 2013.



# **HVAC**

The school HVAC system was upgraded in 2013 as part of the bond project. There is one central heating system that contains two condensing gas-fired hot water boilers that were installed in 2013. Each boiler has 3 MMBTU of

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input heating capacity that provides heating water to the majority of the building by using two heating water pumps with variable speed drive.



Most spaces are ventilated by fans distributing outside air via tunnels below the corridors to the rooms. Outside air is taken in via the roof and pre-heated with a hot water coil connected to the central heating loop. There is no make-up air unit for the kitchen area.

There are four types of systems to provide space heating. The first is heating water radiators for the corridor and some office spaces. The second is a ducted booster heating water unit in the tunnel that serves classrooms. The third is a heating water fan coil unit that serves the cafeteria and classrooms. The fourth is two packaged heat pump rooftop units that provide heating, cooling and ventilation for the main office (8 tons) and the multi-purpose room (13 tons with heat recovery).

In addition to the packaged heat pump units, there are two mini-split units on the roof to provide cooling for the IT/computer room. There is no central cooling system for the building.









As part of the 2013 project, the control system was upgraded to a centralized Delta DDC system that controls all the major HVAC equipment.



## **Fire Protection**

The elementary school building has a sprinkler system that receives routine testing and inspection.

## **Electrical**

# Electrical Service & Distribution

The school electrical system was upgraded in 2013. There is one 800 A 120/208 V three-phase 4-wire main panelboard (Square D) in the boiler room that serves the whole school. Panels observed in the building have enough space for current conditions. Future expansion needs to be re-evaluated if the district wants to add cooling.

### Lighting

The interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electric ballasts. There are also CFLs and incandescent lights in certain places. There are a few occupancy sensors in common areas (cafeteria, multipurpose room and storage room, etc.) to control the lights, but the majority of the lights are controlled manually.

The exterior lighting is a mixture of CFL, metal halide and high-pressure sodium fixtures, and is controlled by photocell sensors.

An interior and exterior lighting retrofit is recommended to make the school lighting system consistent/durable, increase student productivity, and reduce energy consumption.

## Communication & Security

The elementary school has an old PA speaker system for operational communications. There was no two-way intercom noticed during the visit. The main office and classrooms have a Polycom IP phone system. One old Lathem LTR6-384 time clock system was noticed during the visit. The school is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering exterior and interior locations. The fire alarm system was upgraded to a Honeywell Silent Knight system within the last few years. Wi-Fi coverage appears to be complete throughout the building.

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# **Recommendation and Estimated Construction Costs**

Priority and Estimated Construction Costs

Interior and exterior lighting and lighting control retrofit to LED \$95,000
 Test and retro commissioning the existing HVAC system \$21,000

Recommended and Estimated Construction Costs

NA





# #4 ---- Shaver Elementary School

Shaver elementary school is located at 3701 NE 131<sup>st</sup> PI., Portland, OR 97230. The school was built in 1963 and has had several renovations and additions. Similar to Russell elementary school, the latest major addition for Shaver elementary school was to add a multi-purpose room in 2013. The main school building is a single story building (north wing and south wing) and its total area is approximately 43,916 sq.ft. The school includes classrooms, offices, library, computer room, kitchen, gym/cafeteria, multi-purpose room, restrooms, storage, and mechanical/electrical rooms.



# Plumbing

The school uses the city water and sewer system. The plumbing and water fixtures were upgraded in 2013 as part of a previous project. There was a water leak between the main water supply and boiler room at the parking lot to the northeast of the main building that was fixed a few years ago.

There are three domestic hot water heaters to provide domestic hot water for the school. The major one is a 100gallon A.O. Smith gas-fired tank type heater with 199,000 Btu/hr. of heating capacity installed in 2003. It is located in the boiler room and provides hot water for the kitchen and north wing of the school. One 80-gallon A.O. Smith electric tank type heater with 3 kW of heating capacity was installed in 2013 and is located in a custodial room. It provides hot water for the south wing. One 30-gallon Bradford electric tank type heater with 4.5 kW of heating capacity was installed in 2013. It provides hot water for the new multi-purpose room.



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# <u>HVAC</u>

There is one central heating system that consists of two Aerco gas-fired condensing hot water boilers with an input heating capacity of 1.5 MMBTU each that were installed in 2013. They provide heating for the majority of the school.



There is one dual duct (DD) air handling unit (AHU) located in the boiler room to distribute air via tunnels below corridors to dual duct terminal units serving the majority of the school. The AHU pulls in outside air through a sidewall louver and return air is routed below ground in tunnels back to the AHU. Relief air is provided via relief hoods at each classroom. There are two tunnel systems per wing.

The main office area uses two heat pump furnaces installed in 2014 to provide space heating, cooling and ventilation. An electric cadet heater provides heat for the main entrance area. It was also installed in 2014.

A Mitsubishi split heat pump on the roof provides cooling and heating to the multi-purpose office space. There are two 3.3 ton Aermec reversible air/water heat pumps on the roof to provide chilled/heating water to radiant panels in the floor of the multi-purpose room for space cooling and heating. An air-to-air heat recovery unit on the roof provides ventilation to the office and multi-purpose room.

The school has no central cooling system, but a mini-split unit provides cooling for an IT closet.









The majority of the HVAC control system was upgraded as part of the 2013 project. The school has a Delta DDC control system that is tied into the district-wide BAS to control all the major HVAC equipment. The two heat pump furnaces are controlled by stand-alone programmable thermostats with the BAS only monitoring space temperature.



# Fire Protection

The majority of the school has a sprinkler system that is under routine testing and inspection. The 2013 multipurpose area does not have a sprinkler system.

# **Electrical**

## *Electrical Service & Distribution*

The majority of the electrical system was upgraded in 2013/2014 and the new main distribution panel is in the boiler room. It is a 600 A 120/208 V three-phase 4-wire Eaton panelboard that provides electrical service for the whole school building. Most of the subpanels were upgraded as part of projects in 1996 and 2013/2014. The panels observed in the building have enough space for current conditions.

A solar PV system was installed on the multi-purpose room roof in 2013 to provide renewable energy.

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### Lighting

The interior lighting is primarily 4' and 8' T8 fluorescent lamp fixtures with standard electric ballasts. There are also incandescent, CFLs and LEDs in certain places. A majority of the school spaces use manual wall switches to control the lights but there are some occupancy sensors in the gym/cafeteria, offices and multi-purpose room.

The exterior lighting is a mixture of CFL and high-intensity discharge (HID) lamps. The exterior lighting is controlled by photocell sensors. The lighting for the parking lot could be improved by the addition of more light fixtures.

The interior and exterior lighting retrofit is recommended to make school lighting systems consistent/durable, increase student productivity, and reduce energy consumption.

### Communication & Security

The elementary school has an old PA speaker system for operational communications. There was no two-way intercom noticed during the visit. The main office and classrooms have a Polycom IP phone system. The school is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering exterior and interior locations. The fire alarm system is a Honeywell system that covers the whole school building. Wi-Fi coverage appears to be complete throughout the building.









# Recommendation and Estimated Construction Costs

Priority and Estimated Construction Costs

Refurbish existing AHU	\$80,000
<ul> <li>Test and retro commissioning the HVAC system</li> </ul>	\$30,000
Replace old electrical panels	\$65,000
<ul> <li>Interior and exterior lighting and lighting control retrofit to LED</li> </ul>	\$100,000
Recommended and Estimated Construction Costs	
Replace old NG DHW	\$30,000
<ul> <li>Add fire sprinkler system for multi-purpose room</li> </ul>	\$40,000





# #5 ---- Parkrose Middle School

Parkrose Middle School is located at 11800 NE Shaver St., Portland, OR 97220. The school was built in 2014 to replace the original middle school that was built in 1962. The new middle school is a two-story building except at the northeast corner, which is just one-story and houses the IT department office and boiler/main electrical room. The school's total area is approximately 140,000 sq.ft. It includes classrooms, offices, library, computer room, kitchen, gyms, cafeteria, district IT department, restrooms, storage, and mechanical/electrical rooms.



# **Plumbing**

The school uses the city water and sewer system. Overall, the plumbing system in good condition.

The school has four gas-fired hot water heaters to provide domestic hot water for the whole building. The heaters are located in two different mechanical rooms and each location has two units. Two heaters are in the boiler room and are 100-gallon A.O. Smith gas-fired tank type heaters with 150,000 Btu/hr. of heating capacity each. They were installed in 2014 and provide hot water for classrooms. The other two heaters are located in a mechanical room in the kitchen area and are 100-gallon A.O. Smith gas-fired tank type heaters with 199,900 Btu/hr. of heating capacity each. They were each. They were installed in 2014and provide hot water for the kitchen and gym.



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# <u>HVAC</u>

The middle school has one central heating system that consists of three HydroTherm gas-fired condensing hot water boilers with a heating input capacity of 1,999,999 BTU each that were installed in 2013 to provide heating for rooftop units (RTUs), air handling units (AHUs), radiators and terminal VAV box reheat coils.



The building has eight RTUs and three AHUs to provide heating, cooling and ventilation. Four RTUs, which have aircooled DXs for cooling and hot water coils for heating, serve classroom sector A, classroom sector B, the arts/band area, and offices. Two RTUs, which have air source heat pumps and hot water coils, serve the media center/computer lab and the main gym. The last two RTUs serve the cafeteria and kitchen and have air source heat pumps for cooling and heating. Most of the units run as variable flow system and have terminal VAV boxes with hot water reheat coil. AHU#1 has a heating water coil and DX cooling connected to a 10-ton air-cooled condensing unit on the roof. It has terminal VAV boxes with HW reheat coils to serve the ground floor IT department. AHU#2 has a heating water coil and air-to-air heat exchanger serving the small gym area. AHU#3 has a heating water coil only to provide the locker rooms with heating and ventilation.

Heating water radiators are used to provide supplemental heat for corridors and perimeter room spaces.

The school does not have a central cooling system, but there are a few mini split units to serve IT rooms.



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The middle school has a Delta DDC control system installed in 2013 that is tied into the district-wide BAS to control all the major HVAC equipment.



# **Fire Protection**

The school building has a sprinkler system that receives routine testing and inspection.

## Electrical

## Electrical Service & Distribution

The main electrical distribution panel is in the main electrical room right beside the boiler room. It is a 1,600 A 480/277 V three-phase 4-wire Square D panelboard that provide electrical service to transformers and subpanels for the whole school building. Overall, the existing electrical infrastructure is in good condition.

A solar PV system and a small wind turbine system were installed as part of the new middle school building project.









There is one Cummins 85 kW natural gas-fired generator beside the main electrical room to provide the school with emergency power.



### Lighting

The interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electric ballasts. There are also CFLs and LEDs noticed in certain places. There is a lighting control system in place to control interior and exterior lights. Most of the classrooms, offices and common areas have occupancy sensors as part of the lighting control.

The exterior lighting is a mixture of CFL and high-intensity discharge (HID) lamps. The lighting control system, in addition to photocell sensors, control the exterior lights.

An interior and exterior lighting retrofit is recommended to make school lighting systems consistent/durable, increase student productivity, and reduce energy consumption.

### Communication & Security

The new middle school building has a Telecor all-in-one communication system that provides school intercom and clock services. The school is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering exterior and interior locations. The fire alarm system is a Honeywell system serving the whole school building. Wi-Fi coverage appears to be complete throughout the building.

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# **Recommendation and Estimated Construction Costs**

# Priority and Estimated Construction Costs

- Interior and exterior lighting and lighting control retrofit to LED
- Test and retro commissioning the existing HVAC system

\$215,000 \$64,000

## Recommended and Estimated Construction Costs

NA

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# #6 ---- Parkrose High School

Parkrose High School is located at 12003 NE Shaver St., Portland, OR 97220. The school was built in 1996 to replace the original high school building. There is one old stand-alone fine arts building, which was built in 1968, to the northwest of the main building. The main high school is a two-story building and the fine arts is a one-story building. The school's total area is approximately 260,497 sq.ft. The school includes classrooms, offices, library, computer room, kitchen, gym, cafeteria, indoor swimming pool, restrooms, storage, and mechanical/electrical rooms.



# Plumbing

The school uses the city water and sewer system. The existing irrigation system has leak issues, but the plumbing system is in fair condition overall.

The main school building has two gas-fired hot water heaters to provide domestic hot water. The heaters are located in the main building boiler room with one 400-gallon and one 600-gallon storage tanks. The smaller heater is an A.O. Smith gas-fired heater with 720,000 Btu/hr. of heating capacity installed in 1996. The other heater is an A.O. Smith gas-fired heater with 1,480,000 Btu/hr. of heating capacity installed in 1996. Both units are in fair condition, but they are beyond their expectancy life.

The stand-alone fine arts building has one 80-gallon tank type electric heater with 3.38 kW of heating capacity installed in 1998. It is recommended that unit be replaced.



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There is an indoor swimming pool that uses one HydroTherm gas-fired condenisng boiler to heat pool water with an input heating capacity of 1.0 MMBTU. It was installed in the early 2010s. The school is looking at replacing this boiler with a new one due to corrosion of the heat exchanger.



# <u>HVAC</u>

The main school building has one central heating system that consists of two Bryan gas-fired hot water boilers with input heating capacities of 7 MMBTU and 4.5 MMBTU. They were installed in 1996 to provide heating for coils in fan systems, radiators and terminal VAV box reheat coils.



The main building has 18 rooftop units (RTUs) installed between 1996 and 1997, but the unit that serves the indoor pool was replaced 12 years ago. They provide space heating, cooling and ventilation. Eight RTUs have gas-fired furnaces as heating source. Seven RTUs are constant volume units and the other 11 RTUs are variable volume that use inlet guide vanes to modulate air flow based on space load. Those 11 VAV RTUs have terminal VAV boxes with hot water reheat coils connected to the central heating system. The district is working with a contractor to replace the existing inlet guide vanes with VFDs to provide better flow control and save energy. Only 14 out of the 18 units have cooling capacity. The RTUs that serve the student center, kitchen and weight lost cooling capacity due to compressor issues. The remote air-cooled condensing unit to cool and dehumidify supply air currently is not working.

The kitchen has two make-up air units with gas-furnaces to provide the kitchen area with ventilation and heat.

The school does not have a central cooling system, but there are a few mini-split units to serve IT rooms.







The fine arts building has five packaged rooftop units with gas-fired furnaces and DX cooling that were installed in 2009 to provide building heating, cooling and ventilation.



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The main HS building uses an Alerton electric control system to control all major HVAC equipment. The school district is working with a controls contractor to upgrade the controls to a Delta DDC system and the new DDC system will be tied into the district-wide BAS.

The fine arts building uses five stand-alone programmable thermostats to control the existing RTUs.

It is recommended to replace the RTUs with high efficiency models as they are beyond their useful life, but the district could refurbish them and repair the failed cooling sections as a more economical option.



# **Fire Protection**

The main school building has a sprinkler system that receives routine testing and inspection. No sprinkler system was noticed for the fine arts building.

# **Electrical**

## *Electrical Service & Distribution*

The main electrical distribution panel is in the main electrical room beside the boiler room and it is a 4,000 A 480/277 V three-phase 4-wire Siemens switchboard that provides electrical service to transformers and subpanels for the whole school building. Overall, the existing electrical infrastructure is in good condition.

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There is one Kohler 50 kW diesel fired generator outside the mian electrical room to provide the school emergency power.



### Lighting

The interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electric ballasts. There are also CFLs and LEDs noticed in certain places. There is a lighting control system in place to control interior and exterior lights.

The exterior lighting is a mixture of CFL and high-intensity discharge (HID) lamps. The lighting control system, in addition to photocell sensors, controls the exterior lights.

An interior and exterior lighting retrofit is recommended to make the school lighting systems consistent/durable, increase student productivity, and reduce energy consumption.



## Communication & Security

The school uses a Peavey PZS 80 with Simplex as the PA and clock system for the whole school. There was no intercom system noticed during the site visit. The school is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering exterior and interior locations. The fire alarm system is a Honeywell system for the whole school building. Wi-Fi coverage appears to be complete throughout the building.

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# **Recommendation and Estimated Construction Costs**

Priority and Estimated Construction Costs

Replace indoor pool boiler \$75,000 • Repair condensing unit for pool unit \$50,000 • Old RTU replacement for main building \$3,200,000 • Interior and exterior lighting and lighting control retrofit to LED \$500,000 • Test and retro commissioning the HVAC system \$85,000 • Recommended and Estimated Construction Costs **Replace old DHWs** \$120,000 • \$35,000 Repair irrigation piping • \$105,000 Control upgrade for fine arts building •

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# #7 --- Sumner Elementary School

Sumner/Helensview Elementary school is located at 8678 NE Sumner St., Portland, OR 97220. The school was built in 1954 and has had several renovations and additions since then. The building is a single floor and the total area is approximately 40,000 sq.ft. This school is currently used as a leased facility. The building includes classrooms, offices, library, computer lab, kitchen/cafeteria, restrooms, storage, and mechanical/electrical rooms.



# Plumbing

The school uses the city water and sewer system. Most of the plumbing fixtures are original with high water usage. Overall, the plumbing system is old and replacement is recommended.

There is one gas-fired State Industries 100-gallon tank type domestic hot water heater located in the boiler room that was installed in 1994 with a heating capacity of 199,990 Btu/hr. This unit is beyond its useful life expectancy and is recommended to be replaced with a new unit.



# **HVAC**

There is one central heating system for the majority of the building that consists of one original gas-fired low pressure steam boiler located in the boiler room. Steam is used directly in fan systems and fin tube radiators. In addition, there is a steam-to-hot water converter in the boiler room to provide heating hot water to floor radiant

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panels, but the district maintenance team reports there were some leaking issues in the system so it was shut off. Therefore, some of the spaces do not have floor heating to maintain space heating setpoint during peak winter season. The main office area is served by steam radiators. A heating system replacement is recommended.



Most spaces are ventilated by a fan distributing outside air via tunnels below corridors to rooms. Outside air is taken in via a roof head and pre-heated with a steam coil. Most of the classrooms have ducted booster coils to reheat outside air before it goes into each space. The multi-purpose room is heated and ventilated by a fan coil unit with a steam coil. The school upgraded the kitchen system within the last few years with a new RTU as the make-up air unit.

There is no central cooling system for the building, but some portable ACs were noticed during the visit.



The majority of the existing control system is the original pneumatic system, and it appears minimal Honeywell electronic controls were installed in the 1996 upgrade to provide scheduling control. Some local thermostats are in disrepair. Overall, the control system is in poor condition and a new DDC control system upgrade is recommended in addition to the mechanical system replacement.

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## **Fire Protection**

The elementary school building has a sprinkler system that receives routine testing and inspection

# **Electrical**

## Electrical Service & Distribution

The main electrical panelboard is located in the boiler room and was replaced in the 1996 renovation project. The current distribution panel is 800 A 208/120 V three-phase 4-wire panelboard (Square D). There are some old electrical panels that were noticed during the visit, but overall the power infrastructure is sufficient to support the current building condition.



### Lighting

The interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electric ballasts and they are controlled by switches. There are also CFLs and incandescent lights in certain places.

The exterior lighting is a mixture of fluorescent, CFL and metal halide fixtures. Most of the exterior lights are controlled by photocell sensors. The lighting for the parking lot could be improved by the addition of more light fixtures.

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An interior and exterior lighting retrofit is recommended to make the school lighting system consistent/durable, increase student productivity, and reduce energy consumption.

## Communication & Security

No intercom/clock system was observed during the walk through. Only one old PA system was noticed and it is not clear whether the system is functional; building tenants use two-way radios to communicate. The building is served by an extensive Sonitrol security system that includes sensors and cameras covering interior and exterior locations. The building uses a Notifier fire system that was upgraded within the last few years. Wi-Fi coverage appears to be complete throughout the building.



# **Recommendation and Estimated Construction Costs**

### Priority and Estimated Construction Costs

Upgrade boiler and heating system	\$800,000
Replace old HVs and coil heaters	\$550,000
Upgrade existing control system	\$300,000
<ul> <li>Test and retro commissioning the HVAC system</li> </ul>	\$22,000
Replace old electrical panels	\$100,000
<ul> <li>Interior and exterior lighting and lighting control retrofit to LED</li> </ul>	\$90,000
Replace water fixtures and water piping	\$240,000
Recommended and Estimated Construction Costs	
Replace existing DHW	\$30,000

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# #8 --- Wheatley Elementary School

Wheatley/Thompson Elementary school is located at 14030 NE Sacramento St., Portland, OR 97230. The school was built in 1958 as a single floor building and the total area is approximately 40,000 sq.ft. This school is currently used as a leased facility and Multnomah Education Service District uses this building to provide a learning community that fosters academic and vocational growth for students ages K-21. The building includes classrooms, offices, library, computer lab, kitchen, multi-propose room, restrooms, storage, and mechanical/electrical rooms.



#### Plumbing

The school uses the city water and sewer system. Most of the plumbing fixtures are original with high water usage. The water from the tap flows dusty yellow, which indicates that the existing plumbing piping system is corroded. A plumbing system replacement is recommended.



There is one gas-fired Reliance 100-gallon tank type domestic hot water heater located in the boiler room that was installed in 2019 with a heating capacity of 199,000 Btu/hr.

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### <u>HVAC</u>

There is one central heating system for the majority of the building that consists of one original Birchfield gas-fired low pressure steam boiler located in the boiler room. Steam is used directly for coils in fan systems and fin tube radiators. The steam is also converted to heating water in the boiler room with a heat converter and pumped to floor radiant panels. Per the district maintenance team, there were some leaking issues in the floor radiant panels so those heating water loops were shut off for certain locations. Therefore, some of the spaces do not have floor heating to help maintain space heating setpoints during peak winter season. A heating system replacement is recommended.



Most spaces are ventilated by a fan distributing outside air via tunnels below corridors to rooms. Outside air is taken in via a sidewall louver and is pre-heated with a steam coil. Most of the classrooms have ducted booster coils to reheat outside air before it goes into each space. The gym area is heated and ventilated by a fan coil unit with a steam coil. Kitchen hood make-up air is transferred from the multi-purpose room.

There is no central cooling system for the building, but window ACs were noticed during the visit for most of the classrooms and offices.



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The majority of the existing control system is the original pneumatic system and minimal electronic controls were installed for scheduling major equipment operation. All of the window ACs are controlled manually. Overall, the control system is in poor condition and a new DDC control system upgrade is recommended in addition to the mechanical system replacement.



#### **Fire Protection**

The school building has no sprinkler system.

#### **Electrical**

#### *Electrical Service & Distribution*

The main electrical panelboard is located in the boiler room and is the original one. The current distribution panel (Square D) is 600 A 120/208 V three-phase 4 wire panelboard to provide electrical service for the whole building. There are some old electrical panels noticed during the visit. Overall, the power infrastructure is sufficient for current conditions but replacement of some of the old panels is recommended.

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#### Lighting

The interior lighting is primarily 4' T8 fluorescent lamp fixtures with standard electronic ballasts. There are also CFLs and incandescent lights in certain places. It appears interior lights are controlled by manual switches.

The exterior lighting is a mixture of CFL and metal halide fixtures. Most of the exterior lights are controlled by photocell sensors. The lighting for the parking lot could be improved by the addition of more light fixtures.

An interior and exterior lighting retrofit is recommended to make the school lighting system consistent/durable, increase student productivity, and reduce energy consumption.

#### Communication & Security

There is one old time control system in place and it is not clear whether the system is functional. The main office and building tenants appear to use an intercom feature from the existing Polycom IP phone system. The building is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering interior and exterior locations. The building uses a Honeywell fire system. Wi-Fi coverage appears to be complete throughout the building.



#### **Recommendation and Estimated Construction Costs**

Priority and Estimated Construction Costs

- Upgrade boiler and heating system
- Replace old HVs and coil heaters
- Upgrade existing control system

\$800,000 \$550,000 \$300,000

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<ul> <li>Test and retro commissioning the HVAC system</li> </ul>	\$22,000
Replace old electrical panels	\$140,000
<ul> <li>Interior and exterior lighting and lighting control retrofit to LED</li> </ul>	\$90,000
Replace water fixtures and water piping	\$270,000
Recommended and Estimated Construction Costs	
Add fire sprinkler system	\$250,000





# #9 ---- Knott Elementary School

Knott Elementary school is located at 11456 NE Knott St., Portland, OR 97220. The school was built in 1951 and has had a few minor renovations. The building is a single floor and the total area is approximately 32,592 sq.ft. This school is currently used as a leased facility with Multnomah Education Service District using the building to provide educational programs for students aged K-21 on IEPs who have had persistent behavior challenges in school. The building includes classrooms, offices, library, computer lab, kitchen, restrooms, storage, and mechanical/electrical rooms.



# Plumbing

The school uses the city water and sewer system. Most of the plumbing fixtures are original with high water usage. Overall, the plumbing system is old and replacement is recommended.

There is one gas-fired State Industries 100-gallon tank type domestic hot water heater located in the boiler room that was installed in 1991 with a heating capacity of 199,990 Btu/hr. This unit is beyond its useful life expectancy and it is recommended to replace it with a new unit.



#### **HVAC**

There is one central heating system for the majority of the building that consists of one original West Coast gasfired low pressure steam boiler located in the boiler room. Steam is used directly for coils in fan systems and fin

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tube radiators. The steam is also converted to heating water in the boiler room with a heat converter and pumped to floor radiant panels. Per the district maintenance team, there were some leaking issues for floor radiant panels serving the south section of the school so the heating water loops were shut off to that section. Therefore, some of the spaces do not have floor heating to maintain space heating setpoints during peak winter season. A heating system replacement is recommended.



Most spaces are ventilated by a fan distributing outside air via tunnels below corridors to rooms. Outside air is taken in via a roof head and pre-heated with a steam coil. Most of the classrooms have ducted booster coils to reheat outside air before it goes into each space. The gym is heated and ventilated by a fan coil unit with a steam coil. Kitchen ventilation and hood make-up air were not observed during the visit.

There are two packaged units (gas-fired furnace and DX cooling) that were installed in 2018 to provide heating, cooling and ventilation for a couple classrooms at the northwest corner of the facility. They each have a cooling capacity of 3 tons and a heating capacity of 60,000 btu/hr.

There is no central cooling system for the building, but window ACs were noticed during the visit for some classrooms and offices.



The majority of the existing controls are an old electronic system that was upgraded in the 1990s, but most of the rooms use programmable thermostats to control their heating. All the window ACs are controlled manually. Overall, the control system is in poor condition and a new DDC control system upgrade is recommended in addition to the mechanical system replacement.

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Fire Protection

The school building has no sprinkler system.

# **Electrical**

#### Electrical Service & Distribution

The main electrical panelboard is located in the boiler room and is the original one. The current distribution panel is a 400 A 480 V three-phase panelboard working with local transformers to provide electrical service for the whole building. Some old electrical panels were noticed during the visit. Overall, the power infrastructure is sufficient for current conditions but replacement of the old panels is recommended.



#### Lighting

The interior lighting is primarily 4' T8 & T12 fluorescent lamp fixtures with standard ballasts. There are also CFLs and incandescent lights in certain places. Only a few locations have occupancy sensors to control the lights; most of them are controlled by switches.

The exterior lighting is a mixture of CFL, HID and high pressure sodium fixtures. Most of the exterior lights are controlled by photocell sensors. The lighting for the parking lot could be improved by the addition of more light fixtures.

An interior and exterior lighting retrofit is recommended to make the school lighting system consistent/durable, increase student productivity, and reduce energy consumption.

#### Communication & Security

There is one old intercom system but it is not clear whether the system is functional. The main office and building tenants appear to use the intercom feature from the existing Polycom IP phone system. The building is served by an extensive Sonitrol security system that includes sensors, card access, and cameras covering interior and exterior





locations. The building uses a Honeywell fire system that was upgraded within the last few years. Wi-Fi coverage appears to be complete throughout the building.



#### **Recommendation and Estimated Construction Costs**

#### Priority and Estimated Construction Costs Upgrade boiler and heating system \$680,000 ٠ \$450,000 • Replace old HVs and coil heaters • Upgrade existing control system \$240,000 Test and retro commissioning the HVAC system \$18,000 • • Replace old electrical panels \$110,000 Interior and exterior lighting and lighting control retrofit to LED \$75,000 • \$200,000 Replace water fixtures and water piping

### Recommended and Estimated Construction Costs

٠	Replace existing DHW	\$30,000
٠	Add fire sprinkler system	\$210,000





# #10 --- District Admin/Maintenance

The Parkrose School District admin/maintenance office is located at 10636 NE Prescott St., Portland, OR 97220. The campus includes the district office, maintenance office, bus garage, bus shop, key shop and food warehouse buildings. They are all one floor buildings and were built between 1955 and 1963. The total building area is approximately 20,700 sq.ft.



#### Plumbing

The buildings use the city water and sewer system. Most plumbing fixtures/system are original with high water consumption.

There is one gas-fired American Water Heater Company 40-gallon tank type domestic hot water heater located in the main administration building's mechanical room. It was installed in 1997 with a heating capacity of 34,000 Btu/hr. This unit is beyond its useful life expectancy and it is recommended to replace it with a new unit.

There is one gas-fired Rheem 40-gallon tank type domestic hot water heater located in the maintenance office work area that was installed in 2013 with a heating capacity of 38,000 Btu/hr.

The bus shop building has one tank type electric hot water heater and it appears the unit is beyond its useful life expectancy, so it is recommended to replace it with a new unit.







# <u>HVAC</u>

There are four residential forced-air gas-fired furnaces equipped with split DX coils and condensing units. They are in the mechanical room and provide heating, cooling and ventilation for the district office building. They were installed in 2015. All four forced-air units are controlled by stand-alone programmable thermostats.

There is also one residential forced-air gas-fired furnace equipped with a split DX coil and condensing unit to provide heating, cooling and ventilation for maintenance office spaces. This unit is controlled by a stand-alone programmable thermostat. The maintenance shop area has one gas-fired unit heater that was installed in 1995 and is controlled by a stand-alone thermostat.

The bus shop, food warehouse and key shop use three old gas-fired unit heaters to maintain space temperature and they are all controlled by stand-alone thermostats.



#### **Fire Protection**

The buildings have no sprinkler systems.

#### **Electrical**

#### Electrical Service & Distribution

The master distribution panel is located in the main office building mechanical room and was upgraded in 2014. It is a 400 A 240/120 V three-phase four wire Emerson panel to provide electrical service for the whole campus. Some old electrical panels were noticed during the visit for the maintenance building, bus shop, food warehouse

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and key shop. Overall, the power infrastructure is sufficient for current conditions but replacement of the old panels is recommended.



#### Lighting

The majority of interior lighting for the campus is a mixture of 4' T8 fluorescent lamp fixtures with standard electronic ballasts and 4' T12 fluorescent lamp fixtures with standard magnetic ballasts. There are some CFLs and incandescent bulbs still in place. Some occupancy sensors are used in the district office building to control interior lights. The rest of the interior lights are controlled by manual switches.

The parking lot pole lights have been converted to LED and the majority of exterior lights attached to the buildings are either CFLs or high intensity discharge lights. Most of the exterior lights are controlled by photocell sensors.

#### Communication & Security

The campus uses a Sonitrol security system that includes sensors, card access, and cameras covering the majority of exterior locations. No fire system was noticed during the visit. Wi-Fi coverage appears to be complete throughout the campus.

#### **Recommendation and Estimated Construction Costs**

Priority and Estimated Construction Costs	
<ul> <li>Test and retro commissioning the HVAC system</li> </ul>	\$12,000
<ul> <li>Interior and exterior lighting and lighting control retrofit to LED</li> </ul>	\$43,000
Recommended and Estimated Construction Costs	
Replace water fixtures and water piping	\$135,000
Replace existing DHW	\$17,000
<ul> <li>Replace old furnace, split DX and gas unit heaters</li> </ul>	\$55,000
Upgrade existing control system	\$115,000
Add fire sprinkler system	\$130,000





#### The following table shows the summary of estimated budget costs for each school improvements.

			ł	IVAC			Elec	trical		Plumbing		
Prescott Elementary School	Replace existing old boiler system		Refurbish AHUs	AHU/HV/RTU/UV/ UH/FF Replacement	Test and retro- commissioning	Control upgrade	Replace old electrical panels	Lighting and lighting control retrofit	Replace water fixtures and water piping for the school	Replace existing old DHW heater	Add fire sprinkler system	Total
Prescott Elementary School					\$ 22,000	\$ 75,000		\$ 110,000	\$ 55,000	\$ 60,000		\$ 322,000
Russell Elementary School				\$ 530,000	\$ 18,000			\$ 90,000			\$ 40,000	\$ 678,000
Sacramento Elementary School					\$ 21,000			\$ 95,000				\$ 116,000
Shaver Elementary School			\$ 80,000		\$ 30,000		\$ 65,000	\$ 100,000		\$ 30,000	\$ 40,000	\$ 345,000
Parkrose Middle School					\$ 64,000			\$ 215,000				\$ 279,000
Parkrose High School	\$ 75,000	\$ 50,000		\$ 3,200,000	\$ 85,000	\$ 105,000		\$ 500,000	\$ 35,000	\$ 120,000		\$4,170,000
Sumner Elementary / Helensview School*	\$ 800,000			\$ 550,000	\$ 22,000	\$ 300,000	\$ 100,000	\$ 90,000	\$ 240,000	\$ 30,000		\$2,132,000
Thompson Elementary / Wheatley School*	\$ 800,000			\$ 550,000	\$ 22,000	\$ 300,000	\$ 140,000	\$ 90,000	\$ 270,000		\$ 250,000	\$2,422,000
Knott Elementary / Knott Creek School*	\$ 680,000			\$ 450,000	\$ 18,000	\$ 240,000	\$ 110,000	\$ 75,000	\$ 200,000	\$ 30,000	\$ 210,000	\$2,013,000
District Admin / Maintenance				\$ 55,000	\$ 12,000	\$ 115,000		\$ 43,000	\$ 135,000	\$ 17,000	\$ 130,000	\$ 507,000
	Priority											

Recommended

AHU ----Air Handling Unit Heating Ventilating Unit ΗV

------------RTU Rooftop Unit

UV Unit Ventilator

UH Unit Heater

----Forced-air Furnace FF

DHW Domestic Hot Water ----

# APPENDIX C

AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS (ASHRAE)

EQUIPMENT LIFE EXPECTANCY CHART

# **APPENDIX C** ASHRAE EQUIPMENT LIFE EXPECTANCY CHART

Equipment Item	Median Years	Equipment Item	Median Years
Air conditioners		Air terminals	
Window unit Residential single or Split Package Commercial through-the wall	10 15 15	Diffusers, grilles, and register Induction and fan coil units VAV and double-duct boxes	s 27 20 20
Water-cooled package	15	Air washers	17
Heat Pumps		Ductwork	30
Residential air-to-air Commercial air-to-air Commercial water-to-air	15 15 19	Dampers Fans	20
Roof-top air conditioners Single-zone Multi-zone	15 15	Centrifugal Axial Propeller Ventilating roof-mounted	25 20 15 20
Boilers, hot water (steam) Steel water-tube Steel fire-tube Cast iron Electric	24 (30) 25 (25) 35 (30) 15	Coils DX, water, or steam Electric	20 15
Burners	21	Heat Exchangers Shell-and-tube	24
Furnaces Gas- or oil-fired	18	Reciprocating compressors	20
Unit heaters		Packaged chillers	20
Gas or electric Hot water or steam	13 20	Reciprocating Centrifugal Absorption	23 23
Radiant Heaters		Cooling towers	
Electric Hot water or steam	10 25	Galvanized metal Wood Ceramic	20 20 34

Equipment Item	Median Years
Air-cooled condensers	20
Evaporative condensers	20
Insulation	
Molded Blanket	20 24
Pumps	
Base-mounted Pipe-mounted Sump and well Condensate 15	20 10 10
Reciprocating engines	20
Steam turbines	30
Electric motors	18
Motor starters	17
Electric transformers	30
Controls	
Pneumatic Electric Electronic	20 16 15
Valve actuators	
Hydraulic Pneumatic Self-contained	15 20 10

OREGON DEPARTMENT OF EDUCATION (ODE)

FACILITIES CONDITION ASSESSMENT REPORTS

District Name: Parkrose SD 3		R	MINDER: F	EMINDER: FILL OUT ALL INFORMATION ON	DRMATION ON ' <u>B</u>	ASE INFORMA	TION SHEET' BEFO	<b>RE ENTERING</b>	CORMATION SHEET' BEFORE ENTERING DATA ON THIS SHEET	
Site Name: Prescott Elementary School Building Name: Main Building Name: 73,00000			An unuse An autom	d cell or system atically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the f	eive direct us put elsewhere	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	t overwrite		
	1				LEVEL OF ACTION	N				
Level 1 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	s % of System n or Finish	Automated Budget Estimate	Notes
A SUBSTRUCTURE						•				
A10 Foundations							l	ļ		
A1010 Standard Foundations		35%	X None	Minor	Moderate	Major	Replace		\$0	
A1020 Special Foundations			None	Minor	Moderate	Major	Replace		\$0	
A1030 Slab on Grade		65%	X None	Minor	Moderate	Major	Replace		\$0	
A20 Basement Construction				J			ļ			
A2010 Basement Excavation A2020 Basement Walls	NOT USED	100%	None X None	Minor	Moderate	Major Major	Replace Replace		\$0	
B SHELL				]	]					
B10 Superstructure										
B1010 Floor Construction	Wood	100%	X None	Minor	Moderate	Maior	Replace		ŝ	
	Steel	T		Minor	Moderate	Maior	Replace		\$0	
	Concrete		None	Minor	Moderate	Major	Replace		\$0	
B1020 Roof Construction	Wood	100%	X None	Minor	Moderate	Major	Replace		\$0	
	Steel			Minor	Moderate	Maior	Replace		\$0	
	Concrete		None	Minor	Moderate	Major	Replace		\$0	
B20 Exterior Enclosure			1			1	]			
B2010 Exterior Walls	Concrete Formed / Tilt		None	Minor	Moderate	Major	Replace		\$0	
	Masonry		None	Minor	Moderate	Major	Replace		\$0	
	Framed w/ Wood Siding	40%	None	Minor	Moderate	Major	X Replace	50%	\$319,050	
	Framed w/Metal Panel		None	Minor	Moderate	Major	Replace		\$0	
	Framed w/Stucco		None	Minor	Moderate	Major	Replace		\$0	
	Framed w/Masonry Veneer	60%	None	Minor	X Moderate	Major	Replace	50%	\$46,150	
B2020 Exterior Windows	Wood		None	Minor	Moderate	Major	Replace		\$0	
	Aluminum/Steel		None	Minor	Moderate	Major	Replace		\$0	
	Clad	100%	None	Minor	Moderate	Major	X Replace	80%	\$475,261	
	Curtain Wall		None	Minor	Moderate	Major	Replace		\$0	
B2030 Exterior Doors	Wood		None	Minor	Moderate	Major	Replace		\$0	
	Hollow Metal	15	None	Minor	Moderate	X Major	Replace	100%	\$25,120	Upgrade hardware + repaint
	Storefront		None	Minor	Moderate	Major	Replace		\$0	
B30 Roofing		-	ŕ	ļ		Ē	Ĺ	[	44 4	
B3010 Roof Coverings	Asphalt Shingle		None	Minor	Moderate	Major	Replace		\$0	
	Built-Up	100%	None	Minor	Moderate	Major	Replace		\$0	Missing data on roofing report
	Single Ply		None	Minor	Moderate	Major	Replace		\$0	
	Metal		None	Minor	Moderate	Major	Replace		\$0	
	Concrete Tile		None	Minor	Moderate	Major	Replace		\$0	
B3020 Roof Openings	Skylights		None	Minor	Moderate	Major	Replace		\$0 \$0	By Building GSF Box batteb
	Access nation		NOILE		Noder ate	IVIAJOI	Replace		0¢	

Page 1

District Name:	Parkrose SD 3		RE	MINDER: FI	LL OUT ALLINF	REMINDER: FILL OUT ALL INFORMATION ON ' <u>BASE INFORMATION SHEET</u> ' BEFORE ENTERING DATA ON THIS SHEET	SE INFORMAT	TON SHEET	BEFORE ENT	ERING DAT	A ON THIS SHEET	
Site Name: Building Name:		1 1		An unusec An automé	d cell or system - atically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	sive direct use out elsewhere	in the file - (	do not overwr	ite		
Building ID:			1 [			-						
						LEVEL OF ACTION	z					
			% of Building					Rep. pa	Replace as % %	% of System Au	Automated Budget	
Level 1 Level 2	2 Level 3	Type (as applicable)	or Number	None	Minor	Moderate	Major	Rend	E	_	Estimate	Notes
C INTERIORS												
C10 In	C10 Interior Construction											
	C1010 Partitions	Framed	95% X	( None	Minor	Moderate	Major	Replace	e.		\$0	
		Masonry	5% X	( None	Minor	Moderate	Major	Replace	į.		\$0	
	C1020 Interior Doors	Wood	62	None	Minor	X Moderate	Major	Replace		50%	\$31,947	Upgrade hardware
		Hollow Metal	5	None	Minor	X Moderate	Major	Replace		100%	\$5,153	Upgrade hardware + repaint
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace	e			
C20 Stairs	airs			I			I					
	C2010 Stair Construction	Wood	3 X	K None	Minor	Moderate	Major	Replace	ė		\$0	Cost/Flight
		Metal		None	Minor	Moderate	Major	Replace	į.		\$0	Cost/Flight
		Concrete	2 X	( None	Minor	Moderate	Major	Replace	e.		\$0	Cost/Flight
	C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace	e.		\$0	Cost/Flight
		Resilient	100	None	Minor	Moderate	Major	X Replace		10%	\$32,205	Cost/Flight
C30 In	C30 Interior Finishes			1			I	]	]			
	C3010 Wall Finishes	Paint on Masonry	5% X	( None	Minor	Moderate	Major	Replace	į.		\$0	
		Wallboard	75%	None	Minor	X Moderate	Major	Replace		10%	\$11,538	
		Wainscot	15% X	( None	Minor	Moderate	Major	Replace	ē.		\$0	
		Ceramic Tile	5% X	( None	Minor	Moderate	Major	Replace	ė		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	5% X	( None	Minor	Moderate	Major	Replace	e.		\$0	
		Resilient Tile	75%	None	X Minor	Moderate	Major	Replace		15%	\$7,105	
		Resilient Sheet	5% X	( None	Minor	Moderate	Major	Replace	e.		\$0	
		Polished Concrete		None	Minor	Moderate	Major	Replace	ē.		\$0	
		Ceramic Tile	5% X	( None	Minor	Moderate	Major	Replace	ė		\$0	
		Liquid Applied	5% X	( None	Minor	Moderate	Major	Replace	e		\$0	
		Wood Sports Floor	5%	None	Minor	Moderate	Major	Replace	e.		\$0	
	C3030 Ceiling Finishes	Wallboard	10% X	( None	Minor	Moderate	Major	Replace	e.		\$0	
		Lay-In Ceiling Tile	45% X	( None	Minor	Moderate	Major	Replace	e.		\$0	
		Glued-Up Ceiling Tile	40% X	( None	Minor	Moderate	Major	Replace	e.		\$0	
		Painted Structure	5% X	X None	Minor	Moderate	Major	Replace	a		\$0	

District Name: Darkross SD 3			FMINDER - FII			A CF INFORMA	TION SHEFT' REF	ORF FNTFRING	EMINDER: EILI OLIT ALLINEDRMATION ON 'RA <i>se medrmation sheet</i> ' reore entering data on this sheet	
			An unused An automa	cell or system t tically populate	An automatically populated cell from user input elsewhere in the f	eceive direct use	in much received and on the second on the second and and and and and and and and and a	t overwrite		
Building ID: 21810100			1		LEVEL OF ACTION	NO				
Level 1 Level 2 Level 3 D SERVICE	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	s % of System n or Finish	Automated Budget Estimate	Notes
<u>D10Conveying</u> D1010 Elevators & Lifts D1020 Escalators & Moving Walks D1090 Other Conveying Systems		2	None None	Minor Minor Minor	Moderate Moderate Moderate	Major Major Major	X Replace Replace Replace	100%	\$132,448 \$0 \$0	Broken platform lift at Stage
D20 Plumbing D2010 Plumbing Fixtures		100%	N None	Minor	Moderate	Major	Replace	%0	\$55,000	All (N) fixtures req'd to meet ADA by code.
D2020 Domestic Water Distribution D2030 Sanitary Waste D2040 Rain Water Drainage D2090 Other Plumbing Systems	NOT USED	100% 100% 100%	Y None N None N None None	Minor Minor Minor Minor	Moderate Moderate Moderate Moderate	Major Major Major	X Replace Replace Replace Replace	15% 0% 0%	\$60,000 \$0 \$0	estimate to replace old UHWS and water pipe between buildings
D30 HVAC D3010 Energy Supply D3020 Heat Generating Systems	Boiler	100% 65%	N None N None	Minor	Moderate Moderate	Major Major	Replace Replace	%0	\$0 \$	NG on site for heating and kitchen 3 condensing boilers installed in 2013
	Air Handler	100%		Minor	Moderate		Replace	%0	\$0	Package RTUs for CR building (2013); Main building has (2) Hvs with heat recovery section for gym and cafeteria, (3) heat recovery vertilators to provide OA and (1) make-up air unit for kitchen
	Furnace Heat Exchanger	0% 65%	N None None	Minor Minor	Moderate Moderate	Major Major	Replace Replace	%0 %0	\$\$	Main building has 2 HVs with heat recovery section for gym and cafeteria and 3 heat recovery ventilators to provide OA
D3030 Cooling Generating Systems	Component of air handler Stand alone chiller	35% 0%	N None N None	Minor Minor	Moderate Moderate	Major Major	Replace Replace	0% 0%	\$0 \$	installed in 2013
D3040 Distribution Systems D3050 Terminal & Package Units	Ductwork Hot water return & supply Above ceiling VAV unit	100% 65% 0%	N None N None N None	Minor Minor Minor	Moderate Moderate Moderate	Major Major Major	Replace Replace Replace	%0 %0	\$0 \$0	
2	In-room ventilator unit In-room radiant unit	0% 40%		Minor Minor	Moderate	Major Major	Replace	%0	\$0\$	HW radiator for main building CRs + offices
D3060 Controls & Instrumentation D3070 Systems Testing & Balancing D3090 Other HVAC Systems & Equipment	t NOT USED	100% 100%	Y None Y None None	Minor Minor Minor	Moderate Moderate Moderate	Major Major Major	X Replace X Replace Replace	35% 100%	\$75,000 \$22,000	Control upgrae for classroom building Estimated for RCx
D40 Fire Protection D4010 Spinklers D4020 Standpipes D4030 Fire Protection Specialties D4090 Other Fire Protection Systems	NOT USED	100% 0% 0%	N None N None N None None	Minor Minor Minor Minor	Moderate Moderate Moderate	Major Major Major	Replace Replace Replace Replace	%0 %0	\$0 \$0	
USU Electrical D5010 Electrical Service & Distribution D5020 Ughting and Branch Wring D5030 Communications & Security D5030 Communications & Security	Voice / Data System Clock / Intercom System Clock / Intercom System Closed Circuit Surveillance Access Control System Intrusion Alarm System Fire Alarm / Detection Lighting Control System NOT USED	100% 100% 100% 100% 100% 100% 35%	N N N N N N N N N N N N N N N N N N N	Minor Minor Minor Minor Minor Minor Minor	Moderate           Moderate	Major X Major Major Major Major Major Major	Replace Replace Replace X Replace X Replace Replace Replace Replace Replace Replace	0% 100% 0% 0% 0% 0%	\$0 \$110,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Lighting and lighting control retrofit

Page 3

District Name - Darkross SD 3		RFM			A NO NOITAM	A SF INFORMATI	ON SHEFT' REFORM	FNTFRING D	et before entering data on this sheet		
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Building ID: 21810100			An automatica	iiy populated	cell from user if	iput elsewnere i	An automatically populated cell from user input elsewhere in the file - do not overwrite	verwrite			
				-	LEVEL OF ACTION	NO	-			-	Г
Level 1 Level 2 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
		-	-		_	•		-			
<u>E1010 Commercial Equipment</u>	Food Service Vicentiamed	100%	None X	Minor	Moderate	Major	Replace	15%	\$4,221 ¢0		гт
E1020 Institutional Equipment	Science Art		None None	Minor Minor	Moderate Moderate	Major Major Major	Replace Replace		\$0		
E1030 Vehicular Equipment	Stage Performance Restroom Accessories/Stalls NOT USED	100%	None X None X None	Minor Minor Minor	Moderate Moderate Moderate	Major Major Major	Replace Replace Replace	20%	\$0 \$2,752		
E1090 Other Equipment E20 Furnishings E2010 Fixed Furnishings	NOT USED	×	None	Minor	Moderate Moderate	Major	Replace		¢		
F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED		100% X	None	Minor	Moderate	Major	Keplace		\$0		
G BUILDING SITE WORK											
G10 Site Preparation	NOT USED										
<u>620 Site Improvements</u> G2010 Roadways		7833	None	Minor	Moderate	X Major	Replace	100%	\$65,588	Cost/SF of surface area	Г
G2020 Parking Lots		Ħ	None	Minor	Moderate		Replace		\$0	Cost/SF of surface area	тт
G2030 Pedestrian Paving G2040 Site Develonment		12031 X 1430 X	None	Minor	Moderate	Major	Replace Replace		\$0 \$	Cost/SF of surface area Cost/I F of fencing	
G2050 Landscaping			None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area	П
<u>G30 Site Mechanical Utilities</u> G3010 Water Supply	Domestic		None	Minor	Moderate	Maior	Replace		ŝ	Enter LF of pipe in cell E143	Г
	Fire		None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E144	Γ
G3020 Sanitary Sewer			None	Minor	Moderate	Major	Replace		\$0 \$0	Enter LF of sewer lines in cell E145 Enter SE of area to be drained	
G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		0\$	Enter LF of heating ducts in cell E147	T
G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of duct work in cell E148	
G3060 Fuel Distribution	NOT LISED		None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149	
Good Other Site Mechanical Others G40 Site Electrical Utilities	NOI USED			MILLO	INIOUNI ALE	INIAJOI	replace				
G4010 Electrical Distribution	Service	100% X	None	Minor	Moderate	Major	Replace		\$0		гт
G4020 Site Lighting	Dellerator	100% X	None	Minor	Moderate	Major	Replace		0\$		
G4030 Site Communications & Security	NOT LISED		None	Minor	Moderate	Major	Replace		\$0		
G90 Othe	NOT USED			5							
OTHER				-							
Description of System					Unit of Measure	Quantity	Unit Budget		Extended	Notes	
									\$ \$		П
									\$0 0\$		
				Π					\$0\$		
						Physica	Physical Condition Budget Sub-Total	t Sub-Total	\$1,480,538		
						Phy	Budgeted Development Costs Physical Condition Budget TOTAL	ment Costs	\$562,605 \$2,043,143		
						Cost Cost	Cost with Escalation to June 2021 Cost with Escalation to June 2022	) June 2021	\$2,329,183 <b>\$2,422,350</b>		
						Cos	Cost with Escalation to June 2023	) June 2023	\$2,519,244		

\$24,820,062 9.4%

Replacement Budget Facility Condition Index (FCI)

Soderstrom Architects

District Name: Par	Parkrose SD 3		<u>R</u>	EMINDER: FI	T OUT ALL INF	REMINDER: FILL OUT ALL INFORMATION ON ' <u>BASE INFORMATION SHEET</u> '	ASE INFORMATIC		ENTERING DA	BEFORE ENTERING DATA ON THIS SHEET	
ä	Russell Academy Main			An unusec An automé	l cell or system itically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the f	ceive direct user i 1put elsewhere in	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
217 :ni gui gui gui gui gui gui gui gui gui gu	007019					LEVEL OF ACTION	NO		_		
Level 1 Level 2 Lev	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
A SUBSTRUCTURE											
A10 Foundations A1010 (	<u>dations</u> A1010 Standard Foundations			None	Minor	Moderate	Major	Replace		\$0	
A1 A10	A1020 Special Foundations A1030 Slab on Grade		100% ×	None X None	Minor	Moderate Moderate	Major Maior	Replace Replace		\$0 \$0	
A20 Basemen	A20 Basement Construction					]	]				
A2 A20	A2010 Basement Excavation A2020 Basement Walls	NOT USED		None None	Minor Minor	Moderate	Major Major	Replace Replace		\$0	
B SHELL						]					
B10 Superstructure	ructure			Г		[		[			
B1.	B1010 Floor Construction	Wood	100% ×	X None	Minor	Moderate	Major	Replace		\$0	
		Steel		None	Minor	Moderate	Major	Keplace		\$0	
R10	81020 Roof Construction	Wood	х %Ub	None	Minor	Moderate	Major	Replace		\$0 \$	
10		Steel	T	X None	Minor	Moderate	Major	Replace		\$0	
		Concrete			Minor	Moderate	Major	Replace		\$0	
<b>B20 Exterior Enclosure</b>	Enclosure			1 !			]	]			
B2i	B2010 Exterior Walls	Concrete Formed / Tilt		None	Minor	Moderate	Major	Replace		\$0	
		Masonry		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding	10%	None	Minor	Moderate	X Major	Replace	100%	\$30,016	
		Framed w/Metal Panel		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Stucco		None	Minor	Moderate		Replace		\$0	
		Framed w/Masonry Veneer	%06	None	Minor	Moderate	X Major	Replace	90%	\$124,769 \$0	
70		wood Aluminum/Steel		None	Minor	Moderate	Maior	Replace		\$0	
		Clad	100% X	X None	Minor	Moderate	Major	Replace		\$0	
		Curtain Wall		None	Minor	Moderate	Major	Replace		\$0	
B2(	B2030 Exterior Doors	Wood		None	Minor	Moderate	Major	Replace		\$0	
		Hollow Metal			Minor	X Moderate	Major	Replace	100%	\$36,070	Upgrade hardware and paint
		Storefront	10 X	X None	Minor	Moderate	Major	Replace		\$0	
B3U KOOTING B3C	<u>ng</u> B3010 Boof Coverin <i>c</i> s	Asnhalt Shingla		None	Minor	Moderate	Major	Banlare		ç	
3		Built-Up	100%	None	Minor	Moderate	Major	X Replace	20%	\$268,187	Scheduled 2027
		Single Ply		None	Minor	Moderate	Major	Replace		\$0	
		Metal		None	Minor	Moderate	Major	Replace		\$0	
		Concrete Tile		None	Minor	Moderate	Major	Replace		\$0	
B3.	B3020 Roof Openings	Skylights		None	Minor	Moderate	Major	Replace		\$0	By Building GSF
		Access Hatch		None	Minor	Moderate	Major	Replace		\$0	Per hatch

District Name: Parkrose SD 3			REMINDER: F	EMINDER: FILL OUT ALL INFOR	ORMATION ON 'B4	SE INFORMAT	<i>NFORMATION SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	ENTERING D	ATA ON THIS SHEET	
ë			An unuse An autom	d cell or system atically populat	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the f	eive direct user out elsewhere i	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
					LEVEL OF ACTION	N		_		
		% of Building	:	;			Replace as part of	% of System or	Automated Budget	
LEVEI 1 LEVEI 2 LEVEI 3 C INTERIORS	lype (as applicable)	or Number	None	Minor	Moderate	Major	Kenovation	FINISN	Estimate	Notes
C10 Interior Construction										
C1010 Partitions	Framed	80%	X None	Minor	Moderate	Major	Replace		\$0	
	Masonry	20%	X None	Minor	Moderate	Major	Replace		\$0	
C1020 Interior Doors	Wood	80	None	Minor	X Moderate	Major	Replace	100%	\$82,445	Door hardware
	Hollow Metal	22	None	Minor	Moderate	X Major	Replace	100%	\$31,174	Door hardware, paint
C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
C20 Stairs										
C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	Metal		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	Concrete		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	Resilient		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C30 Interior Finishes			1							
C3010 Wall Finishes	Paint on Masonry	20%	X None	Minor	Moderate	Major	Replace		\$¢	Clear sealer (not paint)
	Wallboard	75%	None	Minor	X Moderate	Major	Replace	20%	\$47,577	
	Wainscot		None	Minor	Moderate	Major	Replace		\$0	
	Ceramic Tile	5%	None	Minor	Moderate	Major	X Replace	100%	\$6,266	
C3020 Floor Finishes	Carpet / Soft Surface	5%	None	Minor	Moderate	Major	Replace		\$0	
	Resilient Tile	70%	None	Minor	Moderate	X Major	Replace	100%	\$171,846	
	Resilient Sheet	10%	None	Minor	Moderate	Major	X Replace	20%	\$30,945	
	Polished Concrete	10%	None	Minor	Moderate	Major	Replace		\$0	
	Ceramic Tile	2%	None	Minor	Moderate	Major	Replace		\$0	
	Liquid Applied		None	Minor	Moderate	Major	Replace		\$0	
	Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
C3030 Ceiling Finishes	Wallboard	2%	X None	Minor	Moderate	Major	Replace		\$0	
	Lay-In Ceiling Tile	5%	X None	Minor	Moderate	Major	Replace		\$0	
	Glued-Up Ceiling Tile	80%	None	Minor	Moderate	Maior	X Replace	25%	\$48.893	Cafeteria Tectum panels, minor CR replacement
	Painted Structure		X None	Minor	Moderate	Major	Replace		\$0	Stained exposed GLBs throughout
			1				]	ļ		

Russell Academy			An unuse	I cell or system	An unused cell or system that should not receive direct user input	sceive direct us	ser input				
Main 21810200			An autom	atically populat	An automatically populated cell from user input elsewhere in the file - do not overwrite	nput elsewher	e in the fil	e - do not ove	rwrite		
	_				LEVEL OF ACTION	NOL		-			
Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major		Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
				-							
<u>D10 Conveying</u> D1010 Flevators & I ifts			None	Minor	Moderate	Maior	Ľ	Renlace	%U	υş	
D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Re 2	Replace	%0	\$0	
D1090 Other Conveying Systems			None	Minor	Moderate	Major	Ĩ	Replace	%0	\$0	
lbing D2010 Plumbing Fixtures		100%	None	Minor	Moderate	Maior	Ľ	Replace	%0	Ş	All (N) fixtures reg'd to meet ADA by code.
									2	2	System upgraded in 2013 project and DHWs
D2020 Domestic Water Distribution		100%	None	Minor	Moderate	Major	Re	Replace	0%	\$0	replaced in 2013
D2030 Sanitary Waste		100%	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
D2040 Rain Water Drainage D2090 Other Plumbing Systems	NOT USED	100%	None	Minor Minor	Moderate	Major Major	Re Re	Replace Replace	%0	\$0	
ے D3010 Energy Supply		100%	None	Minor	Moderate	Major	Ţ	Replace	%0	\$0	NG on site
							ć		òò	ç	Boiler installed in 2013 to provide HW to majority
D3020 Heat Generating Systems	boller	%¢8	None	MINO	Moderate	Major	ž	керіасе	%0	۵¢	Ut the building except new multi-purpose room HVs and DOAS for pown kitchen and multi-
	Air Handler	35%	None	Minor	Moderate	Major	X Re	Replace	50%	\$53,000	purpose room. Estimate included in UV system replacement for gym and kitchen units
	Furnace	%0	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
	Heat Exchanger	15%	None	Minor	Moderate	Major	Re	Replace	%0	\$0	DOAS unit with heat recover for new MPR (2013)
D3030 Cooling Generating Systems	Component of air handler	%0	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
	Stand alone chiller	15%	None	Minor	Moderate	Maior	Re	Replace	%0	Ş	(2) Aermec reversible air/water heat pumps on roof provide chilled water + heating water to MPR floor radiant panel (2014)
D3040 Distribution Systems	Ductwork	35%	None	Minor	Moderate	Major	8	Replace	%0	\$0	
	Hot water return & supply	85%	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
D3050 Terminal & Package Units	Above ceiling VAV unit	%0	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
	In-room ventilator unit	65%	None	Minor	Moderate	Major	X	Replace	100%	\$530,000	Uvs and HVs replacement
D3060 Controls & Instrumentation	In-room radiant unit	0% 100%	None	Minor	Moderate	Major	a a	Replace Replace	%0	\$0 \$0	
D3070 Systems Testing & Balancing		100%	None	Minor	Moderate	Major	×	Replace	100%	\$18,000	Estimated for RCx
D3090 Other HVAC Systems & Equipment	NOT USED		None	Minor	Moderate	Major		Replace		k.	
D40 Fire Protection		010/							10001	¢ 40 000	Add fire earinklar curtam for MDD
D4020 Standnines		%r0	None	Minor	Moderate	Maior	<	Renlace	%00T	5000	
D4030 Fire Protection Specialties		%0	None	Minor	Moderate	Major	, Å	Replace	%0	\$0	
D4090 Other Fire Protection Systems	NOT USED		None	Minor	Moderate	Major	Re	Replace			
D50 Electrical		10007	Ē				Ĺ		/00/	¢,	
DS020 Liebting and Branch Wiring		100%	None	Minor	Moderate	Major X		Replace Replace	U% 100%	¢an nnn	Lighting and lighting control retrofit
D5030 Communications & Security	Voice / Data System	100%	None	Minor	Moderate	Maior		Replace	%0 7007	50 50	0
	Clock / Intercom System	100%	None	Minor	Moderate	Major	, Å	Replace	%0	\$0	
	Closed Circuit Surveillance	100%	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
	Access Control System	100%	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
	Intrusion Alarm System	100%	None	Minor	Moderate	Major	Re	Replace	%0	\$0	
	Fire Alarm / Detection	100%	None	Minor	Moderate	Major	ž	Replace	%0	\$0 \$	
	Lighting Control System	35%	None	Minor	Moderate	Naior	Ÿ	Kenlace	202	9	

				ANDED. CU	OTAL MEDI	A TION ON TAR		PERINDED. FUT OUT AU INCOMMANON ON IMAGE INCOMMANON CUEFT DEFONE ENTERNIC DATA ON TURE CUEFT				
District Name: Site Name:	rarkrose ou a Russell Academy			An unused	cell or system th	An unused cell or system that should not receive direct user input	ive direct user in	iput				
Building Name: Building ID:	Main 21810200			An automa	tically populated	cell from user inpi	ut elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	rwrite			
5		1				LEVEL OF ACTION	7					
Level 1 Level 2	Level 3	Tvpe (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
	FURNISHINGS	·										
E10 Equipment	pment			-	[	[	[	ſ	[			r
	E1010 Commercial Equipment	Food Service	20%	None	X Minor	Moderate	Major	Replace	100%	\$4,642 20	Kitchen Equipment	-
	E1020 Institutional Equipment	Vocational		None	Minor	Moderate	Major	Replace		\$0		Т
		auence Art		None	Minor	Moderate	Major	Renlace		0¢		Т
		Stage Performance		None	Minor	Moderate	Major	Replace		\$0		Т
		Restroom Accessories/Stalls	100%	None	X Minor	Moderate	Major	Replace	50%	\$5,673		<b>1</b>
	E1030 Vehicular Equipment	NOT USED		None	Minor	Moderate	Major	Replace				
	E1090 Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace				
E20 Furnishings	<u>iishings</u> F2010 Fived Furnishin <i>a</i> s		100%	Anon	Minor	Moderate	Maior	X Renlace	80%	¢384 530		Г
	E2020 Movable Furnishings		100%	None	Minor	Moderate		X Replace	20%	\$247,557		Т
F SPECIAL CONST	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED							1				1
G BUILDING SITE WORK	WORK											
G10 Site	<u>G10 Site Preparation</u>	NOT USED										
070 JIE			EDAD	Nono	Minor	Moderate	V Maior	oschood	E.00/	674 050	Cost/SE of surface area	Г
	G2020 Parking Lots		16139	None	Minor	Moderate	X Major	Replace	50%	\$67.568	cost/SF of surface area	1
	G2030 Pedestrian Paving		6812	None	Minor	Moderate	X Major	Replace	50%	\$39.488	Cost/SF of surface area	Т
	G2040 Site Development		2300 X	None	Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing	1
	G2050 Landscaping		341000 X	None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area	T
G30 Site	G30 Site Mechanical Utilities			-				]				1
	G3010 Water Supply	Domestic	100 X	-	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E143	
		Fire		None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E144	
	G3020 Sanitary Sewer		100 X	None	Minor	Moderate	Major	Replace		\$0	Enter LF of sewer lines in cell E145	-,
	G3030 Storm Sewer			None	Minor	Moderate	Major	Replace		\$0	Enter SF of area to be drained	T
	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of neating ducts in cell E14/ Eator LE of duct work in coll E140	-
				None	MINOL	Moderate	Major	Replace		0¢	Enter LF OF GUCE WOR IN CENTE 140	Т
	G3090 Prei Distribution G3090 Other Site Mechanical I Hilities	NOT LISED		None	Minor	Moderate	Major	Replace		D¢.	LINCE LI OLITALUI AL BAS IILLES ILL CELL LT+3	- 10
G40 Site	G40 Site Electrical Utilities											
	G4010 Electrical Distribution	Service	100% X	None	Minor	Moderate	Major	Replace		\$0		
		Generator		None	Minor	Moderate	Major	Replace		\$0		_
	G4020 Site Lighting		100% X	None	Minor	Moderate	Major	Replace		\$0		
	G4030 Site Communications & Security			None	Minor	Moderate	Major	Replace		\$0		- j
	G4090 Other Site Electrical Utilities	NOI USED		None	Minor	Moderate	Major	Replace				
OTHER	G90 Other Site Construction	NOT USED										
						Unit of						
	Description of System					Measure	Quantity	Unit Budget		Extended	Notes	
										\$0		
										\$0		1
										\$0		Ţ
										\$0		-
												ł

\$2,383,523 \$905,739 \$3,289,262 \$3,749,759 \$3,899,749 \$4,055,739

Physical Condition Budget Sub-Total Budgeted Development Costs Physical Condition Budget TOTAL Cost with Escalation to June 2021 Cost with Escalation to June 2023 Cost with Escalation to June 2023 \$20,470,006 18.3%

Replacement Budget Facility Condition Index (FCI)

District Name: Parkr	Parkrose SD 3		×	EMINDER:	FILL OUT ALL	NDER: FILL OUT ALL INFORMATION ON		<u>BASE INFORMATION</u>	SHEET	ENTERING DA	BEFORE ENTERING DATA ON THIS SHEET	
ä	Sacramento Elementary School Main			An unus An autoi	ed cell or syste natically popu	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the f	iot receive di Iser input els	rect user ing ewhere in th	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
niging in:	1300					LEVEL OF ACTION				_		
Level 1 Level 2 Level 3	m	Type (as applicable)	% of Building or Number	None	Minor	or Moderate	erate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
<b>IRUCTUR</b>												
A10 Foundations	<u>dations</u> A1010 Standard Enundations			None	Minor	Moderate		Maior	Renlace		ç	
A102	A1020 Special Foundations			None	Minor			Major	Replace		\$0	
A1030 Slab on Gra A20 Basement Construction	A1030 Slab on Grade ment Construction		100%	X None	Minor	Moderate		Major	Replace		\$0	
A201	A2010 Basement Excavation	NOT USED		None	Minor	Moderate		Major	Replace		¢,	
B SHELL	AZUZU Basement w alls			None				Major	керіасе		n¢	
B10 Superstructure	ture											
B101	B1010 Floor Construction	Wood		None	Minor	Moderate		Major	Replace		\$0	
		Steel		None	Minor			Major	Replace		\$0	
		Concrete	100%	K None	Minor			Major	Replace		\$0 \$2	
B102	B1020 Roof Construction	Wood		None	Minor			Major	Replace		\$0	
		Steel Concrete		None	Minor	Moderate		Major	Replace		0¢	
B20 Exterior Enclosure	iclosure			1			]		-			
B201	B2010 Exterior Walls	Concrete Formed / Tilt	10%	X None	Minor			Major	Replace		\$0	
		Masonry		None	Minor			Major	Replace		\$0	
		Framed w/ Wood Siding		None	Minor			Major	Replace		\$0	
		Framed w/Metal Panel	10%	None	Minor			Major	Replace		\$0	
		Framed w/Stucco	/000	None	Minor	Moderate		Major	Replace		\$0	
CUC R	82020 Exterior Windows	Wood	00/00	None	Minor			Maior	Replace		0¢	
		Aluminum/Steel		None	Minor			Major	Replace		\$0	
		Clad	100%	X None	Minor			Major	Replace		\$0	
		Curtain Wall		None	Minor			Major	Replace		\$0	
B203	B2030 Exterior Doors	Wood		None	Minor			Major	Replace		\$0	
		Hollow Metal	15	None	Minor	×		Major	Replace	50%	\$9,662	Minor hardware upgrade, paint
		Storefront	8	X None	Minor	Moderate		Major	Replace		\$0	
B30 Roofing B301	<u>ing</u> R3010 Roof Coverings	Asnhalt Shingle	_	None	Minor	Moderate		Maior	Renlace		υş	
		Built-Up		None	Minor			Major	Replace	T	\$0 \$	
		Single Ply	100%	None	Minor		×	Major	Replace	100%	\$598,910	
		Metal		None	Minor			Major	Replace		\$0	
		Concrete Tile		None	Minor			Major	Replace		\$0	
B302	B3020 Roof Openings	Skylights		None	Minor			Major	Replace		\$0	By Building GSF
		Access Hatch		None	Minor	Moderate		Major	Keplace		0¢	Per naton

District Name:	Parkrose SD 3			SEMINDER: FILI	SEMINDER: FILL OUT ALL INFORMATION ON	MATION ON 'BAS	SE INFORMATIC	W SHEET' BEFORE	ENTERING DA	<i>TION SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	
Site Name: Building Name:	Sacramento Elementary School Main			An unused i An automat	cell or system th ically populated	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the '	ive direct user i ut elsewhere in	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
Building ID:	21810300					LEVEL OF ACTION	z		_		
								Replace as	% of		
Level 1 Level 2 Level 3	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	part of Renovation	System or Finish	Automated Budget Estimate	Notes
C INTERIORS											
C10 Inter	C10 Interior Construction										
	C1010 Partitions	Framed	%06	X None	Minor	Moderate	Major	Replace		\$0	
		Masonry	10%	X None	Minor	Moderate	Major	Replace		\$0	
	C1020 Interior Doors	Wood	112	None	Minor	X Moderate	Major	Replace	65%	\$75,025	Hardware
		Hollow Metal	12	None	Minor	X Moderate	Major	Replace	100%	\$12,367 I	Upgrade hardware + repaint
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
C20 Stairs	<u>ମ</u>			1	1	1					
	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Metal		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace		¢0	Cost/Flight
		Resilient		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C30 Inter	C30 Interior Finishes						•				
	C3010 Wall Finishes	Paint on Masonry	10%	None	X Minor	Moderate	Major	Replace	100%	\$11,862	
		Wallboard	75%	None	X Minor	Moderate	Major	Replace	25%	\$20,056	
		Wainscot	10%	None	Minor	Moderate	Major	X Replace	100%	\$7,096	Tectum panels at Gym / Cafeteria
		Ceramic Tile	5%	X None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	7%	None	Minor	Moderate	Major	X Replace	25%	\$6,190	
		Resilient Tile	75%	None	Minor		X Major	Replace	20%	\$37,809	
		Resilient Sheet	8%	None	Minor	Moderate	Major	X Replace	50%	\$25,418	
		Polished Concrete	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Liquid Applied		None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	10%	X None	Minor	Moderate	Major	Replace		\$0	
		Lay-In Ceiling Tile	20%	X None	Minor	Moderate	Major	Replace		\$0	
		Glued-Up Ceiling Tile	25%	X None	Minor	Moderate	Major	Replace		\$0	
		Painted Structure	15%	X None	Minor	Moderate	Major	Replace		\$0	

District Namo: Darkross 5D 3		ā			NDEP: EILI OLIT ALLINEORMATION ON 'BA			RECORTEN.	TEDING DA	<u>on sheet</u> ' refore entering data on this sheet	
• •			An unuse	d cell or system	An unused cell or system that should not receive direct user input	eive direct user	input				
Building Name: Main Building ID: 21810300		11	An auton	natically populat	An automatically populated cell from user input elsewhere in the file - do not overwrite	ut elsewhere i	n the file -	do not overw	rrite		
					LEVEL OF ACTION	Z					
Level 2 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Re	Replace as part of Sy Renovation	% of System or Finish	Automated Budget Estimate	Notes
ICES								-			
D10 Conveying			Г	[		[	[	l	[		
D1010 Elevators & Lifts		0	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D1020 Escalators & Moving Walks		0	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D1090 Other Conveying Systems		0	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D20 Plumbing			1		•	1		J			
D2010 Plumbing Fixtures			N None	Minor	Moderate	Major	Replace	ace	%0	\$0	All (N) fixtures reg'd to meet ADA by code.
D2020 Domestic Water Distribution		100%		Minor	Moderate	Maior	Replace	ace	%0	\$0	2009 and 2013 gas-fired DHWs
D2030 Sanitary Waste		ľ		Minor	Moderate	Maior	Replace	ace	%0	\$0	•
D2040 Rain Water Drainage		T	Т	Minor	Moderate	Major	Replace	ace	%0	\$0	
D2090 Other Plumbing Systems	NOT USED		None	Minor	Moderate	Major	Replace	ace	l		
D30 HVAC			1								
D3010 Energy Supply		100% N	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	Gas to boiler and kitchen area
D3020 Heat Generating Systems	Boiler	80%	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	Gas-fired condensing HW boilers installed in 2013
- 9						Ì		<u> </u>	Γ		Package HP RTU for main office + MPR; FCUs for
	Air Handler	40% N	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	cafeteria and CRs (2013)
	Furnace	0% V	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
	Heat Exchanger		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	Heat recovery unit for MPR (2013)
D3030 Cooling Generating Systems	Component of air handler		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	Package HP RTU for main office + MPR (2013)
	Stand alone chiller		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D3040 Distribution Systems	Ductwork	40% N	N None	Minor	Moderate	Major	Replace	ace	%0	0\$	
	Hot water return & supply	85% N	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D3050 Terminal & Package Units	Above ceiling VAV unit		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
	In-room ventilator unit		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	ducted booster HW heater and HW FCU
	In-room radiant unit		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	HW radiator
D3060 Controls & Instrumentation			N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D3070 Systems Testing & Balancing		100%	None	Minor	Moderate	Major	X Replace	ace	100%	\$21,000	Estimated for RCx
D3090 Other HVAC Systems & Equipment	NOT USED		None	Minor	Moderate	Major	Replace	ace			
D40 Fire Protection		ŀ									
D4010 Sprinklers		%		Minor	Moderate	Major	Replace	ace	%0	\$0 \$	
D4020 Stand pipes D4030 Eiro Brotton Soorialtion		%0		Minor	Moderate	Major	Replace	ace	%n	0\$	
DADDO Othor Fire Protection Specialities	NOT LISED			Minor	Moderate	Major	Bool	20	0/0	nć	
D50 Flortrical			NOTE		Modeldle	INIAJO	Replace	ace			
D5010 Electrical Service & Distribution		100% N	I None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D5020 Lighting and Branch Wiring		100%	None	Minor	Moderate	X Major	Replace	ace	100%	\$95,000	Lighting and lighting control retrofit
D5030 Communications & Security	Voice / Data System		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
	Clock / Intercom System		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
	Closed Circuit Surveillance		N None	Minor	Moderate	Major	x Replace	ace	%0	\$0	
	Access Control System	100%	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
	Intrusion Alarm System	_	N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
	Fire Alarm / Detection		1	Minor	Moderate	Major	Replace	ace	%0	\$0	
	Lighting Control System		N None	Minor	Moderate	Major	Replace	ace	%0	\$0	
D5090 Other Electrical Systems	NOT USED		None	Minor	Moderate	Major	Replace	ace			

District Namo:	Darbrace SD 3		ŭ					DEMININEEP EIT OTT ALL INEODEMATION ON ' <u>BAGE INEODEMATION CHEET</u> ' BEEODE ENTERING DATA ON THIS CHEET	NTEPING DV	TA ON THIS SHEET		
Site Name:	sacramento Elementary School			An unused c	ell or system that	An unused cell or system that should not receive direct user input	ve direct user in	iput				
Building Name:	Main			An automati	cally populated c	ell from user inpu	t elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	rwrite			
Building ID:	21810300	1				LEVEL OF ACTION	_					
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
	FURNISHINGS											
EIU Equipment	Ipment E1010 Commercial Equipment	Erond Carvina	100%	None	Minor	Moderate	Maior	v Banlara	75%	¢21 110	Walk-ins are orgininal need renlacement	-
		Vocational	0/001	None	Minor	Moderate	Major		0/07	\$0 \$0		-
	E1020 Institutional Equipment	Science		None	Minor	Moderate	Major	Replace		\$0		-
		Art 5. 5 5		None	Minor	Moderate	Major	Replace		\$0		
		stage Pertormance Restroom Accessories/Stalls	100%	None	Minor X Minor	Moderate	Major Maior	Replace	50%	\$0 \$5.825	Minor ADA upgrades	
	E1030 Vehicular Equipment	NOT USED				Moderate	Major	Replace				
	E1090 Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace				
E20 Furnishings E2010 E2020	nishings E2010 Fixed Furnishings E2020 Maxashia Eurorishiara		100%	None	Minor	Moderate	Major	X Replace	40% E%	\$197,413 ¢£2 EAE		
F SPECIAL CONS	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED		%00T			MINDELALE	-	v heplace	°/r	ctr/cor		-
<b>G BUILDING SITE WORK</b>	WORK											
G10 Site	G10 Site Preparation	NOT USED										
G20 Site	G20 Site Improvements			ľ	1		ſ	ſ				r
	G2010 Roadways		2623	None	Minor	Moderate	X Major	Replace	100%	\$21,963 \$55 440	Cost/SF of surface area	
	G2020 Parking Lots G2020 Padartrian Paving		19661 V 1061	None	Minor	Moderate	X Major	Replace	%N¢	505,148 20	Cost/SF of surface area	-
	G2030 redestriati raving G2040 Site Develonment		121346 X	1	Minor	Moderate	Maior	Replace		0¢	Cost/SF01 surrace area	-
	G2050 Landscaping		+	-	Minor	Moderate	Major	Replace		\$0 \$0	Cost/SF of irrigated area	-
G30 Site	G30 Site Mechanical Utilities									2		٦
	G3010 Water Supply	Domestic	100 X	None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E143	_
		Fire		None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E144	, I
	G3020 Sanitary Sewer		100 X	None	Minor	Moderate	Major	Replace		\$0	Enter LF of sewer lines in cell E145	
				None	Minor	Moderate	Major	Replace		0¢	Enter JF of heating ducts in cell F147	-
	G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0 \$	Enter LF of duct work in cell E148	-
	G3060 Fuel Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149	
	G3090 Other Site Mechanical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
G40 Site	G40 Site Electrical Utilities G4010 Electrical Distribution	Carrico	100%	None	Minor	Moderate	Maior	Denlaco		çu		F
		Generator	V 000T	None	Minor	Moderate	Maior	Renlace		50 SN		-
	G4020 Site Lighting		100% X	None	Minor	Moderate	Major	Replace		\$0		-
	G4030 Site Communications & Security			None	Minor	Moderate	Major	Replace		\$0		r
	G4090 Other Site Electrical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				_
G90 Oth OTHER	<u>G90 Other Site Construction</u>	NOT USED										
						Unit of						
	Description of System					Measure	Quantity	Unit Budget		Extended	Notes	
										\$0		
										\$0		
										\$0		
					]					n¢		_

		Notes												
		Extended	\$0	\$0	\$0	0\$	\$1,305,399	\$496,052	\$1,801,451	\$2,053,654	\$2,135,800	\$2,221,232	\$21.017.598	9.8%
							ub-Total	ent Costs	et TOTAL	une 2021	une 2022	une 2023	t Budget	dex (FCI)
		Unit Budget					Physical Condition Budget Sub-Total	<b>Budgeted Development Costs</b>	Physical Condition Budget TOTAL	Cost with Escalation to June 2021	Cost with Escalation to June 2022	Cost with Escalation to June 2023	Replacement Budget	Facility Condition Index (FCI)
		Quantity					Physical	Bu	Physic	Costv	Cost w	Cost v		Ľ
	Unit of	Measure												
		Description of System												
нек														

District Name:	Parkrose SD 3		REM		IL OUT ALL IN	INDER: FILL OUT ALL INFORMATION ON ' <u>BA</u>	<b>SE INFORMATI</b>	<u>ON SHEET' BEFORE</u>	ENTERING DA	BEFORE ENTERING DATA ON THIS SHEET	
	Shaver Elementary School Main			An unused An automa	t cell or system stically populat	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	eive direct user put elsewhere ir	ile - d	erwrite		
Building ID:	21810400					LEVEL OF ACTION	NC		_		
Level 1 Level 2 L	Leve 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
STRUCTUR	u										
A10 Foundations A1010 A1020 A1030 A1030 A20 Basement CC	A10 Foundations A1010 Standard Foundations A1020 Special Foundations A1030 Slab on Grade A20 Basement Construction		15% X 85% X	None None	Minor Minor	Moderate Moderate Moderate	Major Major Major	Replace Replace Replace		\$0 \$0 \$0	
	A2010 Basement Excavation A2020 Basement Walls	NOT USED		None None	Minor Minor	Moderate Moderate	Major Major	Replace Replace		\$0	
B SHELL				1	]	]	1				
B10 Super	<u>B10 Superstructure</u> B1010 Floor Construction	poow	100% X	None	Minor	Moderate	Maior	Renlare		Ŷ	
		Steel	8/00T	None	Minor	Moderate	Major	Replace		\$0	
-		Concrete		None	Minor	Moderate	Major	Replace		\$0 \$0	
		Steel	30% × X	T	Minor	Moderate	Major	Replace		0\$	
		Concrete		None	Minor	Moderate	Major	Replace		\$0	
B20 Exteri	B20 Exterior Enclosure									4	
	B2010 Exterior Walls	Concrete Formed / Tilt		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding	10%	None	Minor	X Moderate	Major	Replace	25%	50 \$4,342	
		Framed w/Metal Panel	15% X	None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Stucco	30%	None	Minor	Moderate	X Major	Replace	50%	\$49,388	
-		Framed w/Masonry Veneer	45%	None	Minor	X Moderate	Major	Replace	20%	\$12,525 \$0	
		Muou Aluminum/Steel		None	Minor	Moderate	Major	Replace		\$0	
		Clad	100% X	None	Minor	Moderate	Major	Replace		\$0	
	-	Curtain Wall		None	Minor	Moderate	Major	Replace		\$0	
	B2030 Exterior Doors	Wood Hollow Metal	10	None	Minor	Moderate X Moderate	Major	Replace Renlace	100%	\$0 \$12 882	Upgrade hardware + repaint
		Storefront	10 X		Minor		Major	Replace	2001	\$0	
B30 Roofing	ing			٦		]	]				
	B3010 Roof Coverings	Asphalt Shingle		None	Minor	Moderate	Major	Replace		\$0	
		Built-Up		None	Minor	Moderate	Major	Replace		\$0	
		Single Ply	100%	None	Minor	Moderate	Major	X Replace	100%	\$1,357,742	
		Metal Constrato Tilo		None	Minor	Moderate	Major	Replace		0,4	
1	B3020 Roof Openings	Skylights		None	Minor	Moderate	Major	Replace		ۍ ۵¢	By Building GSF
		Access Hatch		None	Minor	Moderate	Major	Replace		\$0	Per hatch
				1							

District Name:	Parkrose SD 3		~	EMINDER: FILL	OUT ALL INFOR	MATION ON 'BAS	E INFORMATIO	N SHEET' BEFORE	ENTERING D	REMINDER: FILL OUT ALL INFORMATION ON 'BASE INFORMATION SHEET' BEFORE ENTERING DATA ON THIS SHEET	
Site Name:	Shaver Elementary School			An unused o	ell or system th	An unused cell or system that should not receive direct user input	ive direct user ir	put			
Building Name: Building ID:	Main 21810400			An automati	cally populated	An automatically populated cell from user input elsewhere in the file - do not overwrite	ut elsewhere in	che file - do not ov	erwrite		
						LEVEL OF ACTION	7		_		
			% of Building					Replace as part of	% of System or	Automated Budget	
Level 1 Level 2	Level 3	Type (as applicable)	or Number	None	Minor	Moderate	Major	Renovation	Finish	Estimate	Notes
C INTERIORS											
C10 Inte	C10 Interior Construction			l	ļ	ļ	ļ	1			
	C1010 Partitions	Framed		X None	Minor	Moderate	Major	Replace		\$0	
		Masonry		X None	Minor	Moderate	Major	Replace		\$0	
	C1020 Interior Doors	Wood	100	None	Minor	X Moderate	Major	Replace	20%	\$51,528	Upgrade hardware
		Hollow Metal	17	None	Minor	X Moderate	Major	Replace	100%	\$17,520	Upgrade hardware + repaint
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
CZU STAITS				ļ		1	ſ	Γ			
	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Metal		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete	1	X None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	C2020 Stair Finishes	Concrete Fill	1	X None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Resilient		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C30 Inte	C30 Interior Finishes			•	•						
	C3010 Wall Finishes	Paint on Masonry	10%	None	X Minor	Moderate	Major	Replace	25%	\$3,168	Clear sealer on masonry
		Wallboard	%06	None	Minor	X Moderate	Major	Replace	30%	\$37,576	
		Wainscot		None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile		None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	2%	None	Minor	Moderate	Major	X Replace	20%	\$9,448	
		Resilient Tile	70%	None	Minor	Moderate	Major	X Replace	10%	\$26,929	
		Resilient Sheet	15%	None	Minor	Moderate	Major	X Replace	20%	\$20,366	
		Polished Concrete	5%	X None	Minor	Moderate	Major	Replace		\$0	Sealed concrete
		Ceramic Tile		None	Minor	Moderate	Major	Replace		\$0	
		Liquid Applied	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	20%	X None	Minor	Moderate	Major	Replace		\$0	
		Lay-In Ceiling Tile	30%	None	X Minor	Moderate	Major	Replace	25%	\$4,243	
		Glued-Up Ceiling Tile	40%	None	X Minor	Moderate	Major	Replace	20%	\$2,942	
		Painted Structure	10%	X None	Minor	Moderate	Major	Replace		\$0	
				1			1	1			

:eu		RE	MINDER: FIL	L OUT ALL INFO	REMINDER: FILL OUT ALL INFORMATION ON 'BA	<b>ASE INFORMA</b>	TION SHEET	<b>BEFORE ENT</b>	ERING DAT	<u>SHEET</u> ' BEFORE ENTERING DATA ON THIS SHEET	
site Name: Shaver Elementary School Building Name: Main Building ID: 21810400			An unused An automai	cell or system t tically populate	An unused cell of system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	eive direct use put elsewhere	r input in the file - d	o not overwi	ite		
					LEVEL OF ACTION	NO					
Level 1 Level 2 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Ren Ren Ren	Replace as part of Sy Renovation	% of System or Finish	Automated Budget Estimate	Notes
ICES		-									
<u>D10 Conveying</u> D1010 Elevators & Lifts		2 0	None	Minor	Moderate	Major	Replace	ce	%0	\$0	
D1020 Escalators & Moving Walks D1090 Other Conveying Systems				Minor Minor	Moderate Moderate	Major Maior	Replace	e e	%0	\$0 \$0	
D20 Plumbing								2		2	
D2010 Plumbing Fixtures		100% N	<b></b>	Minor	Moderate	Major	Replace	Ce	%0	\$0	All (N) fixtures req'd to meet ADA by code.
D2020 Domestic Water Distribution D2030 Sanitary Waste		100% Y 100% N	None	Minor	Moderate	Major	X Replace Replace	9 q	100%	\$30,000 \$0	Keplace existing old NG UHW
D2040 Rain Water Drainage			1	Minor	Moderate	Major	Replace	2 e	%0	\$0	
D2090 Other Plumbing Systems	NOT USED		None	Minor	Moderate	Major	Replace	ce			
D3010 Energy Supply		100% N	None	Minor	Moderate	Major	Replace	e	%0	\$0	NG on site
D3020 Heat Generating Systems	Boiler	75% N	None	Minor	Moderate	Major	Replace	e	%0	\$0	Boiler installed 2013, serves majority of the building except new MPR + main office
	Air Handlar	100%	ecolo I	Minor	Moderate	V Maior	Denlard	ļ	75.02		DD unit for most areas, HP furnaces for main office DOAS for MPR Befurbish DD unit
	Furnace		1	Minor	Moderate		Replace	e e	%0	\$0	
	Heat Exchanger	15% N	None	Minor	Moderate	Maior	Replace	e.	%0	\$0	DOAS unit with heat recover for new MPR installed in 2013
D3030 Cooling Generating Systems	Component of air handler	Γ		Minor	Moderate	Major	Replace	Ge	%0	\$0	
											(2) Aermec reversible air/water heat pumps on roof provides chilled water + heating water to MMP floor radiant panel installed in 2014. (2) solit
DODAD Distrikusion Contractor	Stand alone chiller	25% N		Minor	Moderate	Major	Replace	9	%0	\$0 \$0	HPs to furnaces serving main office area (2014)
DOUGO DISCULIDATION SYSTEMIS	Ductwork Hot water return & sunnhy	T	None	Minor	Moderate	Major	Peplace	2, 2,	200	0¢	
D3050 Terminal & Package Units	Above ceiling VAV unit	N %0	1	Minor	Moderate	Major	Replace		%0	\$0 \$	
	In-room ventilator unit	N %0	1	Minor	Moderate	Major	Replace	Ge	%0	\$0	
	In-room radiant unit			Minor	Moderate	Major	Replace	ce	%0	\$0 \$	
D3050 Controls & Instrumentation D3070 Systems Testing & Balancing		100% Y	None	Minor	Moderate	Major	X Replace		0% 100%	\$30.000	Estimated for RCx
D3090 Other HVAC Systems & Equipment D40 Fire Protection	ent NOT USED		None	Minor	Moderate	Major			L		
D4010 Sprinklers		85% Y	None	Minor	Moderate	Major	X Replace		100%	\$40,000	Add fire sprinkler system for multi-purpose room
D4020 Standpipes		N %0	1	Minor	Moderate	Major	Replace	Ge	%0	\$0	
D4030 Fire Protection Specialties	NOTIKED	N %0	None	Minor	Moderate	Major	Replace	ee o	%0	\$0	
D4090 OUNEL FILE FLOLECTION SYSTEMS D50 Electrical			NOIE	MILLO	MODELALE	IVIAJOI	Repla	U J			
D5010 Electrical Service & Distribution		100% Y	None	Minor	Moderate	Major	X Replace		15%	\$65,000	Replace old electrical panels
D5020 Lighting and Branch Wiring	Woiro / Data Sustam	100% Y	None	Minor	Moderate	X Major	Replace		100%	\$100,000 \$0	Lighting and lighting control retrofit
POOD COMMENCEROUS & SECRETES	Clock / Intercom System	100% N	T	Minor	Moderate	Major	Replace	, e	%0	0\$	
	Closed Circuit Surveillance	100% N	None	Minor	Moderate	Major	Replace	ce	%0	\$0	
	Access Control System	100% N	None	Minor	Moderate	Major	Replace	e ce	%0	\$0 \$0	
	Fire Alarm / Detection			Minor	Moderate	Major	Replace	9	%0	0\$	
	Lighting Control System	35% N		Minor	Moderate	Major	Replace	ce	%0	\$0	
D5090 Other Electrical Systems	NOT USED		None	Minor	Moderate	Major	Replace	e			

			Lu				The second se				
District Name: Site Name:	Parkrose SD 3 Shaver Flementary School		<b>¥</b>	MINUEK: FIL	cell or system that	An unused cell or system that should not receive direct user input An unused cell or system that should not receive direct user input	e direct user i	<u>INFURMATION SHEET</u> BEFORE ENTERING DATA ON THIS direct user input		IA UN IHIS SHEEL	
Building Name:	Main			An automa	tically populated o	cell from user inpu	t elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
Building ID:	21810400								-		
_			_	_	-	LEVEL OF ACTION			-		
loud 1 loud 2 loud 2	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tune (se June)	% of Building	North	iM	Modorato	vicM	Replace as part of Benovation	% of System or Einich	Automated Budget Estimate	Mores Mores
E EQUIPMENT & FURNISHINGS	FURNISHINGS	(standards) add.					oferer				
E10 Equipment	pment										
	E1010 Commercial Equipment	Food Service	100% X		Minor	Moderate	Major	Replace		¢0	
		Vocational		None	Minor	Moderate	Major	Replace		\$0	
	E1020 Institutional Equipment	Science		None	Minor	Moderate	Major	Replace		\$0	
		Art		None	Minor	Moderate	Major	Replace		\$0	
		Stage Performance		None	Minor	Moderate	Major	Replace		\$0	
		Restroom Accessories/Stalls	100% X		Minor	Moderate	Major	Replace		\$0	
	E1030 Vehicular Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
	E1090 Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
E20 Furnishings	ishings			Ī							
	E2010 Fixed Furnishings		100%	None		X Moderate	Major	Replace	50%	\$66,473	
	E2020 Movable Furnishings		100%	None	Minor	Moderate	Major	X Replace	10%	\$135,774	
F SPECIAL CONST	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED										
G BUILDING SITE WORK	WORK										
G10 Site	G10 Site Preparation	NOT USED									
G20 Site	G20 Site Improvements			Ī							
	G2010 Roadways		6200	None	Minor	Moderate )	K Major	Replace	100%	\$51,914	Cost/SF of surface area
	G2020 Parking Lots		33016	None	Minor	() Moderate	X Major	Replace	20%	\$138,226	Cost/SF of surface area
	G2030 Pedestrian Paving		13359	None	Minor		X Major	Replace	25%	\$38,720	Cost/SF of surface area
	G2040 Site Development		1037 X	None	Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing
	G2050 Landscaping		302529 X	None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area
G30 Site	G30 Site Mechanical Utilities			1		l	•	1			
	G3010 Water Supply	Domestic	100 X	None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E143
		Fire		None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E144
	G3020 Sanitary Sewer		1200	None	Minor	Moderate	Major	X Replace	50%	\$34,781	Sewer break in parking lot
	G3030 Storm Sewer			None	Minor	Moderate	Major	Replace		\$0	Enter SF of area to be drained
	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of heating ducts in cell E147
	G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of duct work in cell E148
	G3060 Fuel Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149
	G3090 Other Site Mechanical Utilities	NOT USED		None	Minor	Moderate	Major	Replace			
G40 Site	G40 Site Electrical Utilities		ŀ				Г Г	ſ		4	
	G4010 Electrical Distribution	Service	100% X	T	Minor	Moderate	Major	Replace		\$0 \$	
	01030 Site Lindeting	Generator	>0001	None	Minor	Moderate	Major	Replace		0, 0	
	G4020 Site Lightung G4030 Site Communications 9. Socurity		V %OOT	None	Minor	Moderate	Major	Poplace		0¢	
	G4000 Other Site Flortrical I Hilities	NOT LISED		None	Minor	Moderate	Maior	Renlace		0¢	
Gan Othe	Gan Other Site Construction	NOT LISED			5						
OTHER											
						Unit of					
	Description of System					Measure	Quantity	Unit Budget		Extended	Notes
										\$C	
										\$0	
										\$0	
										ŞC	

0.	\$0	\$2,421,487	\$920,165	\$3,341,652	\$3,809,483	\$3,961,863	\$4,120,337	\$22,453,812	17.0%
		Physical Condition Budget Sub-Total	Budgeted Development Costs	Physical Condition Budget TOTAL	Cost with Escalation to June 2021	Cost with Escalation to June 2022	Cost with Escalation to June 2023	Replacement Budget	Facility Condition Index (FCI)

District Name:	Parkrose SD 3		2	EMINDER: FI	LL OUT ALL INF	EMINDER: FILL OUT ALL INFORMATION ON 'BASE INFORMATION SH	SE INFORMATIC	ш	ENTERING DA	<u>ET</u> ' BEFORE ENTERING DATA ON THIS SHEET	
:eu	Parkrose Middle School Main 2444-000			An unused An automi	l cell or system atically populat	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ive direct user i ut elsewhere in	nput the file - do not ove	erwrite		
	00501917					LEVEL OF ACTION	z		_		
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
A SUBSTRUCTURE						-					
A10 Foundations A1010 5 A1020 5	<u>dations</u> A1010 Standard Foundations A1020 Special Foundations		20%	X None None	Minor	Moderate Moderate	Major Major	Replace Replace		\$0	
A20 Baser	A1030 Slab on Grade A20 Resement Construction		80%	X None	Minor	Moderate	Major	Replace		\$0	
	A2010 Basement Excavation A2020 Basement Walls	NOT USED	100%	None X None	Minor	Moderate	Major Maior	Replace Replace		Ş	
B SHELL			1							2	
B10 Super	B10 Superstructure					j					
	B1010 Floor Construction	Mood		None	Minor	Moderate	Major	Replace		\$0	
		Steel	100%	None	Minor	Moderate	Major	Replace		\$0 \$	
_	B1020 Boof Construction	Concrete Wood		None	Minor	Moderate	Major	Replace Renlace		\$0 \$0	
		Steel	100%	X None	Minor	Moderate	Major	Replace		0\$	
		Concrete	T		Minor	Moderate	Major	Replace		\$	
B20 Exter.	B20 Exterior Enclosure			1			1	1			
	B2010 Exterior Walls	Concrete Formed / Tilt		None	Minor	Moderate	Major	Replace		\$0	
		Masonry	15%	K None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Metal Panel	15%	None	Minor	Moderate	Major	Replace		\$0 \$2	
		Framed w/Stucco Framed w/Masconry Venser	200L	V None	Minor	Moderate	Major	Replace Benlace		0¢	
	B2020 Exterior Windows	Wood	T		Minor	Moderate	Major	Replace		\$0 \$	
		Aluminum/Steel	100%	X None	Minor	Moderate	Major	Replace		\$0	
		Clad		None	Minor	Moderate	Major	Replace		\$0	
		Curtain Wall		None	Minor	Moderate	Major	Replace		\$0	
	B2030 Exterior Doors	Wood	9	None	Minor	Moderate	Major	Replace	7007	\$0 611 F01	oremore
			9C	None	Minor	X Moderate	Major	Replace	%0C	460,11¢	Hardware
B30 Roofing	D D		207	INOILE			IVIAJOI	vehiace	%nc	acn'nz¢	
	B3010 Roof Coverings	Asphalt Shingle		None	Minor	Moderate	Major	Replace		\$0	
		Built-Up	85%	X None	Minor	Moderate	Major	Replace		\$0	
		Single Ply		None	Minor	Moderate	Major	Replace		\$0	
		Metal	15%	X None	Minor	Moderate	Major	Replace		\$0	
		Concrete Tile		None	Minor	Moderate	Major	Replace		\$0	
	B3020 Roof Openings	Skylights			Minor	Moderate	Major	Replace		\$0 \$	By Building GSF
		Access Hatch	4	X None	Minor	Moderate	Major	Replace		\$0	Per hatch

District Name: Par	Parkrose SD 3		~	EMINDER: FILL	OUT ALL INFOR	MATION ON 'BAS	E INFORMATIO	N SHEET' BEFORE	ENTERING DA	REMINDER: FILL OUT ALL INFORMATION ON ' <i>BASE INFORMATION SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	
	Parkrose Middle School			An unused o	ell or system th	An unused cell or system that should not receive direct user input	ive direct user in	iput			
Building Name: Ma Building ID: 218	Main 21810500			An automati	cally populated	cell from user inp	ut elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
						LEVEL OF ACTION	Z		_		
			% of Building					Replace as part of	% of System or	Automated Budget	
2	Level 3	Type (as applicable)		None	Minor	Moderate	Major	Renovation	Finish	Estimate	Notes
C INTERIORS											
C10 Interior	C10 Interior Construction										
CI	C1010 Partitions	Framed	%06	None	Minor	Moderate	Major	X Replace	1%	\$28,260	Cracking at corridor walls
		Masonry		X None	Minor	Moderate	Major	Replace		\$0	
CI	C1020 Interior Doors	Wood	294	None	Minor	X Moderate	Major	Replace	25%	\$75,746	Hardware
		Hollow Metal	28	None	Minor	X Moderate	Major	Replace	20%	\$14,428	Hardware
CI	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
CZU STAIRS				ļ			ļ	ļ			
C2	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Metal	4	None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete	4	None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C2(	C2020 Stair Finishes	Concrete Fill	4	X None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Resilient	4	None	Minor	Moderate	Major	X Replace	100%	\$12,882	Cost/Flight
C30 Interior Finishes	Finishes			1	•			1			
Ğ	C3010 Wall Finishes	Paint on Masonry	10%	X None	Minor	Moderate	Major	Replace		\$0	
		Wallboard	65%	X None	Minor	Moderate	Major	Replace		\$0	
		Wainscot	15%	X None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile	5%	X None	Minor	Moderate	Major	Replace		\$0	
G	C3020 Floor Finishes	Carpet / Soft Surface	2%	None	Minor	Moderate	Major	X Replace	20%	\$33,443	High traffic areas / areas with light color
		Resilient Tile	15%	X None	Minor	Moderate	Major	Replace		\$0	
		Resilient Sheet	10%	X None	Minor	Moderate	Major	Replace		\$0	
		Polished Concrete	25%	X None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile		X None	Minor	Moderate	Major	Replace		\$0	
		Liquid Applied	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor		X None	Minor	Moderate	Major	Replace		\$0	
G	C3030 Ceiling Finishes	Wallboard		X None	Minor	Moderate	Major	Replace		\$0	
		Lay-In Ceiling Tile		X None	Minor	Moderate	Major	Replace		\$0	
		Glued-Up Ceiling Tile	10%	X None	Minor	Moderate	Major	Replace		\$0	
		Painted Structure	15%	X None	Minor	Moderate	Major	Replace		\$0	

District Name: Parkrose SD 3	5D 3		RE	VINDER: FI	EMINDER: FILL OUT ALL INFORMATION ON	RMATION ON 'BASE	INFORM	ION SHEE	T' BEFORE EN	TERING D	<i>ATION SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	
	Parkrose Middle School Main			An unused An autom	l cell or system t atically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ive direct user ut elsewhere i	' input n the file	- do not oven	write		
						LEVEL OF ACTION	7					
Level 1 Level 2 Level 3		Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	£ £	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
D10 Conveying							1					
D1010 Ele	D1010 Elevators & Lifts		2 X	None	Minor	Moderate	Major	Rep	Replace		\$0	
D1020 Est	D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Rep	Replace		\$0	
D1090 Ot.	D1090 Other Conveying Systems			None	Minor	Moderate	Major	Rep	Replace		\$0	
D20 Plumbing					I	1	I		I			
D2010 Plu	D2010 Plumbing Fixtures		100% N	_	Minor	Moderate	Major	Rep	Replace	%0	\$0	All (N) fixtures req'd to meet ADA by code.
D2020 Do	D2020 Domestic Water Distribution		100% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	New building & new system
D2030 Sat	D2030 Sanitary Waste		100% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	
D2040 Ra.	D2040 Rain Water Drainage		100% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	
D2090 Oth D30 HVAC	D2090 Other Plumbing Systems	NOI USED		None	Minor	Moderate	Major	Kep	Replace			
D3010 Enc	– D3010 Energy Supply		100% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	NG on site
D3020 He.	D3020 Heat Generating Systems	Boiler	N %06	None	Minor	Moderate	Major	Rer	Replace	%0	\$0	Boilers were installed in 2013
		Air Handler	100% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	8 RTUs and 3 AHUs for whole building
		Furnace	N %0		Minor	Moderate	Major	Rep	Replace	%0	\$0	
		Heat Exchanger	5% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	AHU with HX serves small gym
		:										
D3030 Co	D3030 Cooling Generating Systems	Component of air handler	75% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	8 RTUs have DX cooling for majority of the school
								ć		òõ	¢,	condensing unit for one AHU serves groud floor IT
		Stand alone chiller	1		Minor	Moderate	Major	Kep	Keplace	%0	50	aepartment
U3040 UE	D3040 Distribution Systems	Uuctwork			Minor	Moderate	Major	Yer S	Replace	%n	0,4	
D3050 Tar	D3050 Terminal & Packara   Inits	Above celling VAV unit	N %06	None	Minor	Moderate	Major	Per P	Peplace	%0	0¢	
			1			Moderate	Major		Jace	0/0	0.4	
		In-room radiant unit	N %0	None	Minor	Moderate	Maior	a a	Replace	%0	0¢	
	D3060 Controls & Instrumentation		T	None	Minor	Moderate	Maior		Denlace	200	ç, ç	
D3000 C0	D3070 Systems Testing & Balancing			None	Minor	Moderate	Maior	X Rer	Replace	100%	\$64.000	Estimated for RCx
D3090 Oth	D3090 Other HVAC Systems & Equipment	NOT USED		None	Minor	Moderate	Maior		Replace			
D40 Fire Protection												
D4010 Sprinklers	rinklers		100% N	None	Minor	Moderate	Major	Rep	Replace	%0	\$0	
D4020 Standpipes	indpipes		N %0		Minor	Moderate	Major	Rep	Replace	%0	\$0	
D4030 Fir	D4030 Fire Protection Specialties		N %0	_	Minor	Moderate	Major	Rep	Replace	%0	\$0	
D4090 Ot	D4090 Other Fire Protection Systems	NOT USED		None	Minor	Moderate	Major	Rep	Replace			
D50 Electrical	statisti Consiss O Distrik skies				A fin an	- 4 a do a to 4 a			-	/00	¢,	
			N %00T		MINO	Moderate	Major	Ϋ́Υ,	керіасе	%0	0¢	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D5020 Lig	D5020 Lighting and Branch Wiring		100% Y	None	Minor	Moderate	X Major	Rep	Replace	100%	\$215,000	Lignting and lighting control retrorit
D5030 C0	D5030 Communications & Security	Voice / Data System	1	None	Minor	Moderate	Major	Rep	Replace	%0	50	
		Clock / Intercom System			Minor	Moderate	Major	Kep Kep	Keplace	%0	50 \$	
		Closed Circuit Surveillance			Minor	Moderate	Major	Kep	Keplace	%0	0¢	
		Access Control System			Minor	Moderate	Major	Rep	Replace	%0	\$0	
		Intrusion Alarm System	1		Minor	Moderate	Major	Rep	Replace	%0	\$0	
		Fire Alarm / Detection	100% N	_	Minor	Moderate	Major	Rep.	Replace	%0	\$0	
		Lighting Control System	N %0/		Minor	Moderate	Major	Ker	Keplace	0%	04	
	usugu Other Electrical Systems	NUI USED		None	MINOF	Moderate	INIAJOF	Хе Т	керіасе			

			1									
District Name: Site Name:	Parkrose SD 3 Parkrose Middle School			An unused of	cell or system th	INDER: FILLOUT ALL INFORMATION ON BASE INFORMATION SF An unused cell or system that should not receive direct user input	<u>se INFORMATIC</u> eive direct user i	<u>IN SHEET</u> BEFORE		EMINDER: FILL OUT ALLI NFORMATION ON <u>BASE INFORMATION SHEET</u> BEFORE ENTERING DATA ON THIS SHEET An unused cell or system that should not receive direct user input		
Building Name: Building ID:	Main 21810500			An automat	ically populated	cell from user inp	ut elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	/erwrite			
·						LEVEL OF ACTION	N					ſ
Level 1 Level 2	Level 2 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
	FURNISHINGS								-			
E10 Equipment F1010	) Commercial Equipment	Food Service	100%	X None	Minor	Moderate	Maior	Renlace		ΟŞ		Г
	-	Vocational		1	Minor	Moderate	Maior	Replace		\$0		1
	E1020 Institutional Equipment S	Science	T	X None	Minor	Moderate	Major	Replace		\$0		T
		Art		X None	Minor	Moderate	Major	Replace		\$0		T
	S	Stage Performance		X None	Minor	Moderate	Major	Replace		\$0		11
		Restroom Accessories/Stalls	100%	X None	Minor	Moderate	Major	Replace		\$0		1
	E1030 Vehicular Equipment N E1090 Other Equipment N	NOT USED NOT LISED		None	Minor Minor	Moderate Moderate	Major Maior	Replace Replace				
F20 Fur					ò		2012					
	E2010 Fixed Furnishings		100%	X None	Minor	Moderate	Major	Replace		\$0		Г
	E2020 Movable Furnishings				Minor	Moderate	Major	Replace		\$0		1
F SPECIAL CON	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED			1	1	1						
G RUILDING SITE WORK	WORK											
G10 Site	ation	NOT USED										
G20 Site	Its											
	G2010 Roadways		81308 >	X None	Minor	Moderate	Major	Replace		\$0	Cost/SF of surface area	Г
	G2020 Parking Lots		13161 >	( None	Minor	Moderate	Major	Replace		\$0	Cost/SF of surface area	T
	G2030 Pedestrian Paving		47607 >	X None	Minor	Moderate	Major	Replace		\$0	Cost/SF of surface area	
	G2040 Site Development			X None	Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing	
	G2050 Landscaping		241032	X None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area	
G30 Sitt		:	ŀ					ſ				Г
	G3010 Water Supply	Domestic		T	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E143	
		Fire	100		Minor	Moderate	Major	Replace		\$0 \$2	Enter LF of pipe in cell E144	Т
	G3020 Sanitary Sewer		T	x None	Minor	Moderate	Major	Keplace		90 99	Enter LF OI SEWEI IIITES III CEII E 143 Enter CE of area to bo drained	T
	G2030 Storm Sewer			None	Minor	Moderate	Major	Replace		0\$	Enter 35 OI area to be drained Enter 15 of heating ducts in cell E147	T
	G3050 Cooling Distribution			None	Minor	Moderate	Maior	Renlace		05	Enter LF of duct work in cell E148	T
	G3060 Fuel Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149	T
	anical Utilities	NOT USED		None	Minor	Moderate	Major	Replace		-		
G40 Site	G40 Site Electrical Utilities				•							
	G4010 Electrical Distribution S	Service	100%	( None	Minor	Moderate	Major	Replace		\$0		m
		Generator		None	Minor	Moderate	Major	Replace		\$0		-1
	G4020 Site Lighting		100%	( None	Minor	Moderate	Major	Replace		\$0		
	irity			None	Minor	Moderate	Major	Replace		\$0		
	lectrical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
OTHER	G90 Other Site Construction	NOT USED										
						Unit of						Г
	Description of System					Measure	Quantity	Unit Budget		Extended	Notes	
										\$0		
										\$0		
										\$C		-
										\$0		-
							Physic	Dhvsical Condition Budget Sub-Total	et Sub-Total	¢475 448		
							vie ku l	al condition Budge Budgeted Develop	et sub-lotal	0180 670 05180 670		

 Physical Condition Budget Sub-Total
 \$120,670

 Physical Condition Budget Sub-Total
 \$475,448

 Physical Condition Budget TOTAL
 \$556,118

 Cost with Escalation to June 2021
 \$777,7894

 Cost with Escalation to June 2023
 \$809,010

 Replacement Budget
 \$33,149,944

 Facility Condition Index (FCI)
 0.9%

District Name:	Parkrose SD 3		<b>N</b>	EMINDER: FI	LL OUT ALL INF	teminder: Fill out all information on ' <i>base information sheet</i> ' before entering data on this sheet	E INFORMATIO	N SHEET' BEFORE	ENTERING DA	TA ON THIS SHEET	
Site Name: Building Name:	Parkrose High School Main			An unusec An automé	f cell or system stically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ve direct user ir it elsewhere in	iput the file - do not ove	erwrite		
Building ID:	21810600					LEVEL OF ACTION	_				
Level 1 Level 2 Level 3	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
	ш										
A10 Foundations A1010 5 A1020 5	<u>idations</u> A1010 Standard Foundations A1020 Special Foundations			None None	Minor	Moderate Moderate	Major Major	Replace Replace		\$0	
A20 Base	A1030 Slab on Grade		100%	X None	Minor	Moderate	Major	Replace		\$0	
	A2010 Basement Excavation A2020 Basement Walls	NOT USED	100%	None X None	Minor Minor	Moderate Moderate	Major Major	Replace Replace		\$0	
B SHELL			1		]	]					
B10 Supe	B10 Superstructure			Ē				ſ	[	:	
	B1010 Floor Construction	Wood Steel	65% >>	X None	Minor Minor	Moderate	Major Maior	Replace Replace		\$0 \$0	
		Concrete	5	None	Minor	Moderate	Major	Replace		\$0	
	B1020 Roof Construction	Wood	25%	X None	Minor	Moderate	Major	Replace		\$0	
		Steel	75%	X None	Minor	Moderate	Major	Replace		\$0	
		Concrete		None	Minor	Moderate	Major	Replace		\$0	
B20 Exte	<u>B20 Exterior Enclosure</u> B2010 Exterior Walls	Concrete Formed / Tilt	8%	None	Minor	X Moderate	Major	Replace	50%	\$43,624	Repair / repaint exterior of FAB
		Masonry		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Metal Panel		X None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Stucco	50%	None	Minor	V Moderate >	X Major	Replace	100%	\$976,515 ¢E2 822	
	B2020 Exterior Windows	Wood	240	None	Minor		Major	Replace	2024	\$0	
		Aluminum/Steel	<b>K</b> %06	X None	Minor	Moderate	Major	Replace		\$0	
		Clad			Minor	Moderate	Major	Replace		\$0	
	B 2030 Exterior Doors	Wood	4 %0T	A None	Minor	Moderate	Major	Replace Replace		0¢	
		Hollow Metal	63	None	Minor	X Moderate	Major	Replace	50%	\$40,578	Upgrade hardware
		Storefront		None	Minor	Moderate	Major	Replace		\$0	
B30 Roofing	ing										
	B3010 Roof Coverings	Asphalt Shingle		None	Minor	Moderate	Major	Replace		\$0	
		Built-Up	30%	None	Minor	X Moderate	Major	Replace	100%	\$400,673	
		Single Ply	40%	None	Minor	Moderate	X Major		100%	\$1,518,129 \$157 202	lladarcida of outer case size
		Metal	10%	None	Minor	Moderate	Major	X Replace	30%	\$107,383 20	underside of entry canopies
	B 2020 B cof Onenings	Concrete IIIe Stylindes		None	Minor	Moderate	Major	Replace		0¢	Building GSE
	B3020 K001 Openings	Access Hatch		None	Minor	Moderate	Major	Peplace		0¢	by burning corr Der hatch
		ALLESSINGLA			5	ואוסמבומרכ	IVIGJUI	ואכאומרכ		٥ŕ	

District Name	Parkrose SD 3		-	REMINDER: FIL	OUT ALLINED	BEMINDER: FILL OUT ALLINFORMATION ON 'B4 SF IN	E INFORMATIC	FORMATION SHEET' BEFORE ENTERING DATA ON THIS SHEET	NTFRING DA	TA ON THIS SHEFT	
Site Name:	Parkrose High School			An unused	cell or system th	An unused cell or system that should not receive direct user input	ive direct user in	nput			
Building Name: Building ID:	Main 21810600			An automa:	fically populated	d cell from user inp.	ut elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	rwrite		
)		1				LEVEL OF ACTION	z				
			% of Building					Replace as part of	% of Svstem or	Automated Budget	
Level 1 Level 2 Level 3	2 Level 3	Type (as applicable)	or Number	None	Minor	Moderate	Major	Renovation	Finish		Notes
C INTERIORS											
C10 Int	C10 Interior Construction										
	C1010 Partitions	Framed	%06	X None	Minor	Moderate	Major	Replace		¢0	
		Masonry	10%	X None	Minor	Moderate	Major	Replace		0\$	
	C1020 Interior Doors	Wood	390	None	Minor	X Moderate	Major	Replace	35%	\$140,671	Upgrade hardware
		Hollow Metal	42	None	Minor	X Moderate	Major	Replace	100%	\$43,284	Upgrade hardware, paint
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
C20 Stairs	airs					]	ļ				
	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Metal	8	X None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	C2020 Stair Finishes	Concrete Fill	4	None	X Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Resilient	4	None	Minor	Moderate	Major	X Replace	20%	\$6,441	Cost/Flight
C30 Int	C30 Interior Finishes										
	C3010 Wall Finishes	Paint on Masonry	10%	None	X Minor	Moderate	Major	Replace	30%	\$22,550	
		Wallboard	%09	X None	Minor	Moderate	Major	Replace		\$0	
		Wainscot	20%	None	Minor	Moderate	Major	X Replace	25%	\$22,483	
		Ceramic Tile	10%	X None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	15%	None	Minor	Moderate	Major	X Replace	75%	\$252,183	
		Resilient Tile	53%	None	Minor	Moderate	X Major	Replace	10%	\$84,658	
		Resilient Sheet	7%	X None	Minor	Moderate	Major	Replace		\$0	
		Polished Concrete	8%	None	Minor	Moderate	Major	X Replace	10%	\$24,161	FAB Concrete floors in classrooms
		Ceramic Tile	10%	X None	Minor	Moderate	Major	Replace		\$0	
		Liquid Applied		None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor	%2	X None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	20%	X None	Minor	Moderate	Major	Replace		\$0	
		Lay-In Ceiling Tile	58%	None	X Minor	Moderate	Major	Replace	15%	\$29,195	
		Glued-Up Ceiling Tile	10%	X None	Minor	Moderate	Major	Replace		\$0	
		Painted Structure	12%	None	Minor	Moderate	Major	X Replace	20%	\$25,852	Exterior canopies at entry peeling

	-		1								
District Name: Site Name:	Parkrose SD 3 Parkrose High School		KE	MINDER: FIL	NDER: FILL OUT ALL INFORMATION An unused cell or system that should	INDER: FILL OUT ALL INFORMATION ON BASE INFORMATION SH An unused cell or system that should not receive direct user input	e direct user i		BEFORE ENTERING DATA ON THIS	TA ON THIS SHEET	
:eme:	Main 21810600			An automa	tically populated	An automatically populated cell from user input elsewhere in the file - do not overwrite	: elsewhere in	the file - do not ove	rwrite		
	00001017					LEVEL OF ACTION					
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
					-						
D10 Conveying	reying					ļ	i	1			
	D1010 Elevators & Lifts		з х	None	Minor	Moderate	Major	Replace		\$0	
	D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Replace		\$0	
	D1090 Other Conveying Systems			None	Minor	Moderate	Major	Replace		\$0	
D20 Plumbing	lbing			- -							
	D2010 Plumbing Fixtures		100% N		Minor	Moderate	Major	Replace	%0	\$35,000	All (N) fixtures req'd to meet ADA by code.
	D2020 Domestic Water Distribution		100% Y	None	Minor	Moderate	Major	X Replace	%0	\$120,000	Replace old DHWs
	D2030 Sanitary Waste		100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
	D2040 Rain Water Drainage		100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
D30 HVAC				NOIR		INIOUEIALE	IVIAJUI	Aplace			
	D3010 Energy Supply		100% N	None	Minor	Moderate	Major	Replace	%0	\$0	NG on site
											Two boilers were installed in 1996 for main
	D3020 Heat Generating Systems	Boiler	80% N	None	Minor	Moderate	Major	Replace	%0	\$0	building. Fair condition
		Air Handler	100% Y	None	Minor	Moderate	Major	X Replace	80%	\$3,200,000	Replace old existing RTUs for main building
		Furnace	N %0		Minor	Moderate	Major	Replace	%0	\$0	
		Heat Exchanger	N %0	None	Minor	Moderate	Major	Replace	%0	\$0	
	D3030 Cooling Generating Systems	Component of air handler	80% Y	None	Minor	Moderate >	Major	Replace	80%	\$0	Included in RTU replacement
		Stand alone chiller	10% Y	None	Minor	Moderate	Major	X Replace	100%	\$50,000	Repair condenising unit for indoor pool unit
	D3040 Distribution Systems	Ductwork	100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
		Hot water return & supply	80% N	None	Minor	Moderate	Major	Replace	%0	\$0	
	D3050 Terminal & Package Units	Above ceiling VAV unit		1	Minor	Moderate	Major	Replace	%0	\$0	
		In-room ventilator unit	N %0		Minor	Moderate	Major	Replace	%0	\$0	
		In-room radiant unit	N %0	None	Minor	Moderate	Major	Replace	%0	\$0	
	D3060 Controls & Instrumentation		100% Y	None	Minor	Moderate	Major	x Replace	20%	\$105,000	Upgrade fine arts building control
	D3070 Systems Testing & Balancing		100% Y	None	Minor	Moderate	Major	X Replace	100%	\$85,000	Estimated for KCX
	D3090 Other HVAC Systems & Equipment	NOI USED		None	Minor	Moderate	Major	Keplace			
D40 FILE			F						700	¢,	
	D4020 Standnings		N %00T	None	Minor	Moderate	Major	Peplace	0%D	0¢	
	D4030 Fire Protection Specialties				Minor	Moderate	Maior	Renlace	%0	0¢	
	D4090 Other Fire Protection Systems	NOT USED			Minor	Moderate	Major	Replace	2.2	<b>b</b>	
D50 Electrical	rical										
	D5010 Electrical Service & Distribution		100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
	D5020 Lighting and Branch Wiring		100% Y	None	Minor		X Major	Replace	100%	\$500,000	Lighting and lighting control retrofit
	D5030 Communications & Security	Voice / Data System	100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
		Clock / Intercom System	100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
		Closed Circuit Surveillance	100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
		Access Control System	100% N	None	Minor	Moderate	Major	Replace	%0	\$0	
		Intrusion Alarm System		T	Minor	Moderate	Major	Replace	%0	\$0	
		Fire Alarm / Detection	100% N		Minor	Moderate	Major	Replace	%0	\$0	
		Lighting Control System	70% N		Minor	Moderate	Major	Replace	%0	ŞO	
	Dougu Other Electrical Systems	NUI USED		None	MINOL	Woderate	Major	керіасе			

District Normon			•					GENNINGED" ELLI MITTALL INEODMATTON ON 1946E INEODMATTON GUEET DECODE ENTEDINE DATA ON TUR GUEET		TA ON THIS SUBET		
Site Name: Building Name:	rai Nose 50 5 Parkrose High School Main			An unused o An automat	cell or system the ically populated	An automatically populated cell from user input elsewhere in the f	ive direct user i ut elsewhere in	in other, the door pate interformer for on wars <u>e interformer for and the door benefits</u> of other built. An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	rwrite			
Building ID:	21810600					LEVEL OF ACTION	7					
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
	L FURNISHINGS						-	-				1
E10 Eq.	<u>E10 Equipment</u> E1010 Commercial Equipment	Food Service	100%	X None	Minor	Moderate	Major	Replace		\$0		Г
	-	Vocational	T		Minor	Moderate	Major	Replace		\$0		Г
	E1020 Institutional Equipment	Science	4500	None	Minor	Moderate	Major	Replace		\$0		П
		Art	2800	None	Minor	Moderate	Major	Replace		\$0		
		Stage Performance Restroom Accessories/Stalls	6400 100%	None	Minor X Minor	Moderate	Major Maior	Replace	75%	\$0 \$18.456		Т
	E1030 Vehicular Equipment	NOT USED	0/001	None		Moderate	Major	Replace	20/02	001/014		
		NOT USED		None	Minor	Moderate	Major	Replace				
E20 Fur	E20 Furnishings			 	, ,   [		 I [	1				1 1
	E2010 Fixed Furnishings E2020 Movable Furnishings		100%	X None	X Minor Minor	Moderate	Major Maior	Replace Replace	20%	\$93,289 \$0	Countertops	-
F SPECIAL CON:	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED		1							-		٦
<b>G BUILDING SITE WORK</b>												
<u>610 Sit</u>		NOT USED										
<u>G20 Sit</u>	G20 Site Improvements		072001	Nono	V	Modorato	Maior	Declare	7000	¢73 JE0	Cort/CE of curdence areas	Г
	G2010 Parking Lots		120/40 59750	None	X Minor	Moderate	Maior	Replace	20%	\$60.421	Cost/SF of surface area	1
	G2030 Pedestrian Paving		63325	None		Moderate	X Major	Replace	25%	\$183,544	Cost/SF of surface area	1
	G2040 Site Development		T	X None	Minor	Moderate		Replace		\$0	Cost/LF of fencing	T
	G2050 Landscaping			1 1	Minor	Moderate	Major	X Replace	10%	\$197,948	Cost/SF of irrigated area	11
<u>G30 Sit</u>			ľ					ſ		1		Г
	G3010 Water Supply	Domestic	1	X None	Minor	Moderate	Major	Replace		\$0 \$0	Enter LF of pipe in cell E143 Enter LF of nine in cell E144	
	G3000 Sanitary Sawar	rire		-	Minor	Moderate	Major	Replace		0¢	Enter LF of sewer lines in cell F145	Т
	G3030 Storm Sewer		T	None	Minor	Moderate	Major	Replace		\$0	Enter SF of area to be drained	T
	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of heating ducts in cell E147	T
	G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of duct work in cell E148	T
				None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149	
	e Mechanical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
<u>640 Sit</u>	<u>G40 Site Electrical Utilities</u> G4010 Electrical Distribution	Service	100%	X None	Minor	Moderate	Maior	Renlace		ç		Г
		Generator		<b>T</b>	Minor	Moderate	Major	Replace		\$0		Т
			100%	X None	Minor	Moderate	Major	Replace		\$0		T
	rity			None	Minor	Moderate	Major	Replace		\$0		
	lectrical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
OTHER	G90 Other Site Construction	NOT USED										
OTHEN						Unit of						Г
	Description of System					Measure	Quantity	Unit Budget		Extended	Notes	
										\$0		
										\$0		T
					T					\$0 \$0		Т
									_	н¢		٦
							Physic	Physical Condition Budget Sub-Total	t Sub-Total	\$8,513,132		
								<b>Budgeted Development Costs</b>	nent Costs	\$3,234,990		

E	Measure	Quantity	ity	Unit Budget		Extended	Notes
						0\$	
						\$0	
						\$0	
						\$0	
		•	hysical C	Physical Condition Budget Sub-Total	Sub-Total	\$8,513,132	
			Buc	Budgeted Development Costs	ent Costs	\$3,234,990	
			Physic	Physical Condition Budget TOTAL	et TOTAL	\$11,748,122	
			Cost w	Cost with Escalation to June 2021	une 2021	\$13,392,859	
			Cost wi	Cost with Escalation to June 2022	une 2022	\$13,928,573	
			Cost w	Cost with Escalation to June 2023	une 2023	\$14,485,716	
			Ба	Replacement Budget Facility Condition Index (FCI)	it Budget Idex (FCI)	\$153,680,205 8.7%	

District Name: Parkrose SD 3	03		R	MINDER: FIL	FILL OUT ALL INFORMATION	DRMATION ON ' <u>BAS</u>	E INFORMATIC	<u>N SHEET</u> ' BEFORE	ENTERING DA	BEFORE ENTERING DATA ON THIS SHEET	
	Sumner Elementary School Main 31910005			An unused An automa	cell or system t cally populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ive direct user in ut elsewhere in	iput the file - do not ove	erwrite		
						LEVEL OF ACTION	7				
Level 1 Level 2 Level 3		Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
STRUCTUR					_						
<u>A10 Foundations</u> A1010 Standard Foun A1020 Special Founda A1030 Slab on Grade	<u>dations</u> A1010 Standard Foundations A1020 Special Foundations A1030 Slab on Grade		100% X	None None None	Minor Minor Minor	Moderate Moderate Moderate	Major Major Major	Replace Replace Replace		\$0 \$0	
A20 Basement Construction A2010 Basement E A2020 Basement V	<u>ment Construction</u> A2010 Basement Excavation A2020 Basement Walls	NOT USED		None None	Minor Minor	Moderate Moderate	Major Major	Replace Replace		Ş	
B SHELL					1	]	-				
B10 Superstructure B1010 Floo	<u>rstructure</u> B1010 Floor Construction	Μοοά	100% X	None	Minor	Moderate	Maior	Replace		ŝ	
		Steel		None	Minor	Moderate	Major	Replace		\$0	
		Concrete		None	Minor	Moderate	Major	Replace		\$0	
B1020 Roo	B1020 Roof Construction	Wood	70% X		Minor	Moderate	Major	Replace		\$0 \$2	
		steel Concrete	30% X	None	Minor	Moderate	Major	Replace		0\$	
<b>B20 Exterior Enclosure</b>	<u>re</u>						- ]	]			
B2010 Exterior Walls	erior Walls	Concrete Formed / Tilt	100%	None	Minor	X Moderate	Major	Replace	25%	\$44,902	Exterior cracks visible, repaint
		Masonry		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Metal Panel		None	Minor	Moderate	Major	Replace		0, 50	
		Framed w/Masonry Veneer		None	Minor	X Moderate	Major	Replace		\$0\$	
B2020 Exte	B2020 Exterior Windows	Wood	10%	None	Minor	Moderate	Major	X Replace	100%	\$51,395	
		Aluminum/Steel	%06	None	Minor	Moderate	Major	X Replace	100%	\$497,374	Glass block replacement
		Clad Cutain Woll		None	Minor	Moderate	Major	Replace		\$0 \$0	
B2030 Exterior Doors	rior Doors	Wood		None	Minor	Moderate	Maior	Replace		05 05	
		Hollow Metal	26	None	Minor	X Moderate	Major	Replace	100%	\$33,493	Upgrade / replace hardware, paint
		Storefront		None	Minor	Moderate	Major	Replace		\$0	
B30 Roofing											
B3010 Roof Coverings		Asphalt Shingle		None	Minor	Moderate	Major	Replace		\$0	
		Built-Up	100%	None	Minor	Moderate	Major	X Replace	100%	\$1,436,858	Complete replacement within next 10 years
		Single Ply		None	Minor	Moderate	Major	Replace		\$0	
		Metal		None	Minor	Moderate	Major	Replace		\$0	
		Concrete Tile		None	Minor	Moderate	Major	Replace		\$0	Du Building CEF
B3U2U K00	B3020 Roof Openings	Skylights		None	Minor	Moderate	Major	Replace		50 50	by building ust Bor hatch
		Access Hatch	_	None	Minor	Moderate	Major	Replace		\$0	Per natch

District Name:	Parkrose SD 3		-	REMINDER: FIL	SEMINDER: FILL OUT ALL INFORMATION ON	MATION ON 'BAS	E INFORMATIC	<i>TION SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	ENTERING DA	TA ON THIS SHEET	
Site Name: Building Name:	Sumner Elementary School Main			An unused An automat	cell or system th ically populated	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the !	ive direct user i ut elsewhere in	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
Building ID:	21810005					LEVEL OF ACTION	7		_		
						-		Replace as	% of		
Level 1 Level 2 Level 3	Level 3	Tvpe (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	part of Renovation	System or Finish	Automated Budget Estimate	Notes
C INTERIORS								-			
C10 Inter	C10 Interior Construction										
	C1010 Partitions	Framed	20%	X None	Minor	Moderate	Major	Replace		\$0	
		Masonry	30%	X None	Minor	Moderate	Major	Replace		\$0	
	C1020 Interior Doors	Wood	73	None	Minor	X Moderate	Major	Replace	100%	\$75,231	Upgrade / replace hardware
		Hollow Metal	22	None	Minor	X Moderate	Major	Replace	100%	\$22,672	Upgrade / replace hardware, paint
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
C20 Stairs	21										
	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Metal		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Resilient		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C30 Inter	C30 Interior Finishes							1			
	C3010 Wall Finishes	Paint on Masonry	50%	None	X Minor	Moderate	Major	Replace	15%	\$9,284	
		Wallboard	45%	None	X Minor	Moderate	Major	Replace	25%	\$12,559	
		Wainscot	2%	X None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile		None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	35%	None	Minor	Moderate	Major	X Replace	100%	\$129,207	
		Resilient Tile	40%	None	Minor	Moderate	Major	X Replace	100%	\$150,317	
		Resilient Sheet	10%	None	Minor	Moderate	Major	X Replace	100%	\$66,317	
		Polished Concrete	5%	X None	Minor	Moderate	Major	Replace		0\$	
		Ceramic Tile	10%	None	Minor	Moderate	Major	X Replace	100%	\$138,933	
		Liquid Applied		None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	15%	None	X Minor	Moderate	Major	Replace		\$0	
		Lay-In Ceiling Tile	15%	None	X Minor	Moderate	Major	Replace		\$0	
		Glued-Up Ceiling Tile	%09	None	Minor	Moderate	Major	X Replace	25%	\$39,293	
		Painted Structure	10%	None	Minor	Moderate	Major	X Replace	50%	\$8,870	Repaint

District Name: Darkrose SD 3		ā			BEMINDER: EIL OLT AL INEORMATION ON 'R4 <i>56 INEORMATION SHEET</i> ' BEEORE ENTERING DATA ON THIS SHEET	INFORMATIO	N SHFFT' REFORE I		TA ON THIS SHEFT	
			An unused	cell or system th	An unused cell or system that should not receive direct user input	e direct user ir	iput			
Building Name: Main Building ID: 21810005			An automa	tically populated	An automatically populated cell from user input elsewhere in the file - do not overwrite	t elsewhere in	the file - do not ove	erwrite		
•	I				LEVEL OF ACTION					
Level 1 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
ICES										
D10 Conveying			I	1	1	1	1			
D1010 Elevators & Lifts			None	Minor	Moderate	Major	Replace		\$0	
D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Replace		\$0	
D1090 Other Conveying Systems			None	Minor	Moderate	Major	Replace		\$0	
D20 Plumbing			1		1	1	1			
D2010 Plumbing Fixtures		100%	/ None	Minor	Moderate	Major	X Replace	100%	\$240,000	All (N) fixtures req'd to meet ADA by code.
D2020 Domestic Water Distribution		100%	/ None	Minor	Moderate	Major	X Replace	100%	\$30,000	Replace existing old DHW
D2030 Sanitary Waste			N None	Minor	Moderate	Major	Replace	%0	\$0	
D2040 Rain Water Drainage		100%	N None	Minor	Moderate	Major	Replace	%0	\$0	
D2090 Other Plumbing Systems	NOT USED		None	Minor	Moderate	Major	Replace			
D30 HVAC										
D3010 Energy Supply			N None	Minor	Moderate	Major	Replace	%0	\$0	N G ON SITE
D3020 Heat Generating Systems	Boiler	80%	/ None	Minor	Moderate	Major	X Replace	100%	\$800,000	Upgrade boiler and heating water piping
	Air Handler	80%	/ None	Minor	Moderate	Major	X Replace	100%	\$550,000	Replace existing HVs and coil heaters
	Furnace		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Heat Exchanger		N None	Minor	Moderate	Major	Replace	%0	\$0	
D3030 Cooling Generating Systems	Component of air handler	4 %0	N None	Minor	Moderate	Major	Replace	%0	\$0	
	Stand alone chiller		N None	Minor	Moderate	Major	Replace	%0	\$0	
D3040 Distribution Systems	Ductwork	100%	N None	Minor	Moderate	Major	Replace	%0	\$0	
	Hot water return & supply	×06	/ None	Minor	Moderate	Major	X Replace	100%	\$0	Included in boiler replacement item
D3050 Terminal & Package Units	Above ceiling VAV unit	V %0	N None	Minor	Moderate	Major	Replace	%0	\$0	
	In-room ventilator unit		Y None	Minor	Moderate	Major	X Replace	100%	\$0	coil booster heaters included in AHU item
	In-room radiant unit	-	N None	Minor	Moderate	Major	Replace	%0	\$0	
D3060 Controls & Instrumentation		100%	/ None	Minor	Moderate	Major	X Replace	100%	\$300,000	upgrade to district BAS
D3070 Systems Testing & Balancing		100%	/ None	Minor	Moderate	Major	X Replace	100%	\$22,000	Estimated for RCx
D3090 Other HVAC Systems & Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
D40 Fire Protection										
D4010 Sprinklers			N None	Minor	Moderate	Major	Replace	%0	\$0	
D4020 Standpipes			N None	Minor	Moderate	Major	Replace	%0	\$0	
D4030 Fire Protection Specialties		۷ %0	N None	Minor	Moderate	Major	Replace	%0	\$0	
D4090 Other Fire Protection Systems	NOT USED		None	Minor	Moderate	Major	Replace			
D50 Electrical			Ē		L	ŗ				
D5010 Electrical Service & Distribution		100%	/ None	Minor	Moderate	Major	X Replace	35%	\$100,000	Replace old electrical panels
D5020 Lighting and Branch Wiring		100%	/ None	Minor	Moderate >	( Major	Replace	100%	\$90,000	Lighting and lighting control retrofit
D5030 Communications & Security	Voice / Data System		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Clock / Intercom System		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Closed Circuit Surveillance		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Access Control System	100%	N None	Minor	Moderate	Major	Replace	%0	\$0	
	Intrusion Alarm System			Minor	Moderate	Major	Replace	%0	\$0	
	Fire Alarm / Detection	100%		Minor	Moderate	Major	Replace	%0	\$0	
	Lighting Control System		N None	Minor	Moderate	Major	Replace	%0	\$0	
D5090 Other Electrical Systems	NOT USED		None	Minor	Moderate	Major	Replace			

	-		•									
District Name: Site Name:	Parkrose SD 3 Summer Elementery School		X		OUT ALL INFOR	IIN DER: FILL OUT ALL INFORMATION ON ' <u>BASE INFORMATION SF</u> An unused cell or evetem that should not receive direct user input	<u>e INFORMATIC</u> a diract usar in	REMINDER: FILL OUT ALL INFORMATION ON <u>BASE INFORMATION SHEET</u> BEFORE ENTERING DATA ON THIS SHEET An unused call or evetern that should not receive direct user inout	ENTERING DA	TA ON THIS SHEET		
me:	Jammer crementary Jamoor Main			An automati	ically populated (	cell from user inpu	t elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	irwrite			
	21810005					LEVEL OF ACTION			_			
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
	FURNISHINGS											
E10 Equipment	oment			ſ	ו ן	1	ſ	ſ				[
	E1010 Commercial Equipment	Food Service	10%	None	Minor	Moderate >	X Major	Replace	100%	\$4,974 \$0		T
	E1020 Institutional Equipment	Vocational Science		None	Minor	Moderate	Maior	Replace		0¢		Τ
		Art		None	Minor	Moderate	Major	Replace		\$0		Т
		Stage Performance	10001	None	Minor	Moderate	Major	r r		\$0		Π
	E1030 Vehicular Equipment	Restroom Accessories/Stalls NOT LISED	100%	None	Minor	Moderate	Major	X Replace Replace	100%	Ş109,422		
	E1090 Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace				
E20 Furnishings	ishings		r 00/						1 00/	¢54 673		[
	E2010 FIXEd Furnishings E2020 Movable Furnishings		50%	None	Minor	Moderate /	X Major Major	X Replace	50% 25%	\$165,791 \$165,791		Т
F SPECIAL CONST	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED						-					
<b>G BUILDING SITE WORK</b>	NORK											
<u>610 Site</u>	G10 Site Preparation	NOT USED										
GZU SITE	GZU SITE IMPROVEMENTS		11507		A 110 0.0	Madarata			1000/	¢06 3F3		Γ
	G2010 Parking Lots		19494	None	Minor	Moderate >	X Major	Replace	75%	205,02¢ ¢177 477	Cost/SF of surface area	T
	G2030 Pedestrian Paving		1024	None	Minor	Moderate >	X Major	Replace	50%	\$5.936	Cost/SF of surface area	Τ
	G2040 Site Development		T	X None	Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing	T
	G2050 Landscaping		260459	X None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area	I
G30 Site	G30 Site Mechanical Utilities											
	G3010 Water Supply	Domestic	100 >	X None	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E143	
		Fire			Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E144 Enter LE of course lines in cell E14E	T
	G3020 Sanitary sewer G3030 Storm Sewer		001	A None None	Minor	Moderate	Maior	Replace		0¢	Enter SF of area to be drained	T
	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0 \$	Enter LF of heating ducts in cell E147	Т
	G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of duct work in cell E148	T
	G3060 Fuel Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149	
-113 04 0	G3090 Other Site Mechanical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
040 2116	<u>electrical otinities</u> G4010 Electrical Distribution	Service	100%	X None	Minor	Moderate	Maior	Replace		\$0		Γ
		Generator			Minor	Moderate	Major	Replace		\$0		Т
	G4020 Site Lighting		100%	X None	Minor	Moderate	Major	Replace		\$0		
	G4030 Site Communications & Security			None	Minor	Moderate	Major	Replace		\$0		
	G4090 Other Site Electrical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
OTHER	GOU OTHER SITE CONSTRUCTION	NUI USED										
						Unit of						Γ
	Description of System					Measure	Quantity	Unit Budget		Extended	Notes	
										\$0		Т
					T					0\$		Т
										\$0 \$0		Т
					]	]	]		1			]

Description of System	Unit of Measure	Quantity	Unit Budget		Extended	Notes
					\$0	
					0\$	
					\$0	
					\$0	
		Physic	Physical Condition Budget Sub-Total	t Sub-Total	\$5,405,274	
			Budgeted Development Costs	ment Costs	\$2,054,004	
		P	Physical Condition Budget TOTAL	dget TOTAL	\$7,459,277	
		S	Cost with Escalation to June 2021	June 2021	\$8,503,576	
		Ö	Cost with Escalation to June 2022	June 2022	\$8,843,719	
		S	Cost with Escalation to June 2023	June 2023	\$9,197,468	
			Replaceme	Replacement Budget	\$21,934,341	
			Facility Condition Index (FUI)	ingex (rui)	58.8%	

Page 4

District Name: Parkrose SD 3		<u>κ</u>	EMINDER:		REMINDER: FILL OUT ALL INFORMATION ON		BASE INFORMATION	<u>SHEET' BEFORE</u>		<i>SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	
me:			An unuse An autor	d cell or syste natically popul	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the t	not receive d user input els	rect user inp ewhere in th	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
Building ID: 21810004					LEVEL O	LEVEL OF ACTION			_		
Level 1 Level 2 Level 3	Type (as applicable)	% of Building or Number	None	Minor		Moderate	Maior	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
TRUCTUR											
<u>A10 Foundations</u> A1010 Standard Foundations			None	Minor	Moderate		Maior	Renlace		0Ş	
A1020 Special Foundations		$^{++}$	T T	Minor	Moderate		Major	Replace		\$0	
A1030 Slab on Grade A20 Basement Construction		100%	X None	Minor	Moderate		Major	Replace		\$0	
A2010 Basement Excavation A2020 Basement Walls	NOT USED		None	Minor	Moderate		Major Maior	Replace Replace		Ŷ	
B SHELL				]		]	5			2	
B10 Superstructure											
B1010 Floor Construction	Wood	100%	X None	Minor	Moderate		Major	Replace		\$0	
	Steel		None	Minor	Moderate		Major	Replace		\$0	
	Concrete		T	Minor	Moderate		Major	Replace		\$0	
B1020 Roof Construction	Wood	70%	X None	Minor	Moderate		Major	Replace		\$0	
	Steel Concrete	30%	None	Minor	Moderate Moderate	×	Major Maior	Replace	15%	\$0 \$45.811	Concrete canopy at entry needs repair
B20 Exterior Enclosure			1			]	<b>_</b>				
B2010 Exterior Walls	Concrete Formed / Tilt	80%	X None	Minor	Moderate		Major	Replace		\$0	
	Masonry		None	Minor	Moderate		Major	Replace		\$0	
	Framed w/ Wood Siding		None	Minor	Moderate		Major	Replace		\$0	
	Framed w/Metal Panel		None	Minor	Moderate		Major	Replace		\$0	
	Framed w/Stucco	/000	None	Minor	V Moderate		Major	Replace	1000/	501 042	Clasn / rannint / racas  hrick
B2020 Exterior Windows	Vood	20% 10%	None	Minor	A Moderate		Major X		100%	560.381	
	Aluminum/Steel	%06	None	Minor	Moderate		-		100%	\$584,328	Glass block replacement
	Clad		None	Minor	Moderate		Major	Replace		\$0	
	Curtain Wall		None	Minor	Moderate		Major	Replace		\$0	
B2030 Exterior Doors	Mood		None	Minor	Moderate		Major	Replace		\$0	
	Hollow Metal	30	None	Minor	X Moderate		Major	Replace	100%	\$38,646	Upgrade / replace hardware, paint
	Storefront		None	Minor	Moderate		Major	Replace		\$0	
взи коопид B3010 Roof Coverings	Asphalt Shingle		None	Minor	Moderate		Major	Replace		\$0	
	Built-Up	100%	None	Minor	Moderate	×	Major	Replace	50%	\$381,761	
	Single Ply		None	Minor	Moderate		Major	Replace		\$0	
	Metal		None	Minor	Moderate		Major	Replace		\$0	
	Concrete Tile	1000	None	Minor	Moderate				10001	\$0	Ad and we after an one of frame, a constant
B3U2U KOOT Upenings	экунgnts Access Hatch	%07	None	Minor	Moderate		Major X	Replace	%NOT	0/ <i>6</i> ,c2¢ 0\$	Per hatch
			1					-			

Dictrict Name	Darkrose SD 3				EMINDER: EIL OLT ALLINEORMATION ON		SF INFORMATIC	770N SHEET' BEEORE ENTERING DATA ON THIS SHEET	NTFRING DA	TA ON THIS SHEFT	
Site Name:	Thompson Elementary School			An unused	cell or system th	An unused cell or system that should not receive direct user input	ive direct user i	iput			
Building Name: Building ID:	Main 21810004			An automat	ically populated	cell from user inpi	ut elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	rwrite		
		Ĩ				LEVEL OF ACTION	z				
			:Fli-19- /0					Replace as	% of		
Level 1 Level 2 Level 3	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	part of Renovation	system or Finish	Automated budget Estimate	Notes
C INTERIORS								-			
C10 Inte	C10 Interior Construction										
	C1010 Partitions	Framed	20%	X None	Minor	Moderate	Major	Replace		\$0	
		Masonry	30%	X None	Minor	Moderate	Major	Replace		0\$	
	C1020 Interior Doors	Wood	72	None	Minor	X Moderate	Major	Replace	100%	\$74,200	Upgrade / replace hardware
		Hollow Metal	14	None	Minor	X Moderate	Major	Replace	100%	\$14,428	Upgrade / replace hardware, paint
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
C20 Stairs	21										
	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Metal		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete		None	Minor	Moderate	Major	Replace			Cost/Flight
	C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace			Cost/Flight
		Resilient		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
C30 Inte	C30 Interior Finishes			•	1			1			
	C3010 Wall Finishes	Paint on Masonry	50%	None	X Minor	Moderate	Major	Replace	100%	\$72,716	Repaint
		Wallboard	45%	None	X Minor	Moderate	Major	Replace	100%	\$59,017	Repaint
		Wainscot	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile		None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	10%	None	Minor	Moderate	Major	X Replace	100%	\$43,370	
		Resilient Tile	65%	None	Minor	Moderate	Major	X Replace	100%	\$286,970	ACM
		Resilient Sheet	10%	None	Minor	Moderate	Major	X Replace	50%	\$38,955	
		Polished Concrete	5%	X None	Minor	Moderate	Major	Replace		\$0	Sealed concrete
		Ceramic Tile	10%	None	Minor	Moderate	Major	X Replace	100%	\$163,222	
		Liquid Applied		None	Minor	Moderate	Major	Replace		0\$	
		Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	%02	None	X Minor	Moderate	Major	Replace	25%	\$35,676	
		Lay-In Ceiling Tile	10%	None	Minor	X Moderate	Major	Replace	15%	\$1,354	
		Glued-Up Ceiling Tile	10%	None	Minor	Moderate	Major	X Replace	50%		
		Painted Structure	10%	None	Minor	Moderate	Major	X Replace	50%	\$10,421	Repaint

							Tooland Interior in		and the other test of the	
ue:		× .		ILL OUT ALL INFO	REMINDER: FILL OUT ALL INFORMATION ON BASE INFORMATION SHEET BEFORE ENTERING DATA ON THIS SHEET	E INFORMATIC	<u>N SHEET</u> BEFORE	ENTERING D/	TA ON THIS SHEET	
:eu			An unuse An autom	a cell or system tr atically populate	An unused cen or system that should not receive anect user input. An automatically populated cell from user input elsewhere in the file - do not overwrite.	/e airect user ii t elsewhere in	rput the file - do not ove	erwrite		
Building ID: 21810004					LEVEL OF ACTION			_		
-		% of Building	:	:			Replace as part of	% of System or	Automated Budget	
LEVEL 1 LEVEL 2 LEVEL 3 D SERVICES	Iype (as applicable)	or Number	None	Minor	Moderate	Major	Kenovation	FINISN	Estimate	Notes
D10 Conveying										
D1010 Elevators & Lifts			None	Minor	Moderate	Major	Replace		\$0	
D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Replace		\$0	
D1090 Other Conveying Systems			None	Minor	Moderate	Major	Replace		\$0	
D20 Plumbing			1		]	•	1			
D2010 Plumbing Fixtures		100%	Y None	Minor	Moderate	Major	X Replace	100%	\$270,000	All (N) fixtures req'd to meet ADA by code.
D2020 Domestic Water Distribution		100%	N None	Minor	Moderate	Major	Replace	%0	\$0	New DHW installed in 2019
D2030 Sanitary Waste			N None	Minor	Moderate	Major	Replace	%0	\$0	
D2040 Rain Water Drainage		100%	N None	Minor	Moderate	Major	Replace	%0	\$0	
D2090 Other Plumbing Systems	NOT USED		None	Minor	Moderate	Major	Replace			
		F						207	¢,	NG on rito
Dought for the former for the former of the			N None	Minor	Moderate	Major	-	1000/	0¢	NG UII SILE I Increde hoiler and heating water nining
עסטבט הפמו שפוונג סאינפוווא		2000F		Minor	Moderate	Major	V Beplace	%001		Opgrade Boiler and ricading water piping Renjace existing HVs and coil heaters
		T	N None	Minor	Moderate	Major	A Replace	%00T	nnn/ncc¢	Neplace existing itas and contreated s
		T		Minor	Moderate	Major	Poplace	%0	0¢	
D3030 Cooling Generating Systems	rreat exchanger Comnonent of air handler	t	N None	Minor	Moderate	Maior	Replace	%0	0¢	
		Ì		Minor	Moderate	Major	Peplace	200	ç, ç	
D3040 Distribution Systems	Ductwork			Minor	Moderate	Major	Replace	%0	ç Ş	
	Hot water return 8. supply	T		Minor	Moderate	Maior	Y Banlara	100%	¢,	Included in hoiler replacement item
D3050 Terminal & Package Units	Above ceiling VAV unit	~~~~ ~~~~		Minor	Moderate	Major		%00T	ç Ş	
2	In-room ventilator unit		Y None	Minor	Moderate	Maior	X Replace	100%	ŞD	Coil booster heaters included in AHU item
	In-room radiant unit	T	None	Minor	Moderate	Major	1	%0	\$0	
D3060 Controls & Instrumentation		100%	Y None	Minor	Moderate	Major	X Replace	100%	\$300,000	Upgrade to district BAS
D3070 Systems Testing & Balancing		100%	Y None	Minor	Moderate	Major	X Replace	100%	\$22,000	Estimated for RCx
D3090 Other HVAC Systems & Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
D40 Fire Protection										
D4010 Sprinklers		%0	Y None	Minor	Moderate	Major	X Replace	100%	\$250,000	Add fire sprinkler system
D4020 Stand pipes				Minor	Moderate	Major	Replace	%0	\$0	
D4030 Fire Protection Specialties			N None	Minor	Moderate	Major	Replace	%0	\$0	
D50 Flactrical	NOI USED		None	Minor	Moderate	Major	Keplace			
D5010 Electrical Service & Distribution		100%	Y None	Minor	Moderate	Major	X Replace	45%	\$140,000	Replace old electrical panels
D50201 jahting and Branch Wiring		100%	V None	Minor	Moderate	Maior		100%	000.062	Lighting and lighting control retrofit
D5030 Communications & Security	Voice / Data System	100%	None	Minor	Moderate	Major	Replace	%0	\$0	
	Clock / Intercom System	ľ		Minor	Moderate	Major	Replace	%0	\$0	
	Closed Circuit Surveillance	T	N None	Minor	Moderate	Maior	Replace	%0	ŞO	
	Access Control System			Minor	Moderate	Major	Replace	%0	\$0	
	Intrusion Alarm System		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Fire Alarm / Detection	ľ	N None	Minor	Moderate	Major	Replace	%0	\$0	
	Lighting Control System	t	N None	Minor	Moderate	Major	Replace	%0	\$0	
D5090 Other Electrical Systems	NOT USED		None	Minor	Moderate	Major	Replace			
			1				I			

District Name:	Parkrose SD 3		2	EMINDER: FIL	L OUT ALL INFO	RMATION ON BA	SE INFORMATIC	EMINDER: FILL OUT ALL INFORMATION ON ' <u>BASE INFORMATION SHEET</u> ' BEFORE ENTERING DATA ON THIS SHEET	ENTERING DA	VTA ON THIS SHEET	
Site Name: Building Name:	i nompson Elementary School Main			An unused An automat	cell or system tr. 'ically populated	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the f	eive airect user I. out elsewhere in	An unused cell or system that should not receive an exturser input An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
Building ID:	21810004					LEVEL OF ACTION	N		_		
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
	L FURNISHINGS							-			
E10 Equipment	<u>lipment</u>	المعمالا مستوم	100/			Modoroto	V		1000/	¢E 043	
		Vocational	%OT	None	Minor	Moderate	A Major	Benlace	%/NNT	640(C¢	
	E1020 Institutional Equipment	Science		None	Minor	Moderate	Maior	Renlace		0¢	
		Art		None	Minor	Moderate	Maior	Renlace		8, 9 <b>2</b>	
		Stage Performance		None	Minor	Moderate	Major	Replace		\$0	
		Restroom Accessories/Stalls	100%	None	Minor	Moderate	Major	X Replace	100%	\$128,552	
	E1030 Vehicular Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
	E1090 Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
E20 Fur	E20 Furnishings		1001					ŕ	1001	101.004	
	ezutu Fixea Furnisnings E2020 Movable Furnishin <i>g</i> s		50%	None	Minor	Moderate	A Major Major	X Replace	25%	5194.776	
F SPECIAL CONS	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED										
<b>G BUILDING SITE WORK</b>	WORK										
G10 Site	G10 Site Preparation	NOT USED									
G20 Site	G20 Site Improvements			ļ							
	G2010 Roadways		10300	None	Minor	Moderate	X Major	Replace	45%	\$38,810	Significant paving cracks
	G2020 Parking Lots		29500	None	Minor	Moderate	X Major	Replace	50%	\$123,506	Significant paving cracks
	G2030 Pedestrian Paving		3110	None	Minor	Moderate	X Major	Replace	35%	\$12,620	Significant paving cracks at play area
	G2040 Site Development			X None	Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing
	G2050 Landscaping		556246 x	K None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area
G30 Sitt	G30 Site Mechanical Utilities		ľ							¢,	Estar   E af siss is call E113
	G3010 Water Supply	Domestic	100 x	X None	Minor Minor	Moderate	Major	Replace		\$0 \$	Enter LF of pipe in cell E143 Enter I E of nine in cell E144
	G3020 Sanitary Sewer		100	X None	Minor	Moderate	Maior	Replace		0¢	Enter LF of sewer lines in cell E145
	G3030 Storm Sewer			T	Minor	Moderate	Major	Replace		\$0	Enter SF of area to be drained
	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of heating ducts in cell E147
	G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of duct work in cell E148
	G3060 Fuel Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of natural gas lines in cell E149
	G3090 Other Site Mechanical Utilities	NOT USED		None	Minor	Moderate	Major	Replace			
G40 Sitt	G40 Site Electrical Utilities		ŀ				, , ,	ŗ		4	
	64010 Electrical Distribution	Service Generator	X %00T	X None	Minor	Moderate	Major	Replace		0¢ V	
	G4020 Site Lighting		100% ×	None	Minor	Moderate	Maior	Replace		0\$	
	G4030 Site Communications & Security			None	Minor	Moderate	Major	Replace		\$0	
	G4090 Other Site Electrical Utilities	NOT USED		None	Minor	Moderate	Major	Replace			
G90 Oth	G90 Other Site Construction	NOT USED		-							
OTHER											
	Description of Sustam					Unit of Measure	Ouantity	Linit Budget		Extended	Notes
							4	199000		çu	
					T					10 10	
					I				-	50 \$0	
										ν γ	
									_	7	

District Name:	Parkrose SD 3		RE	MINDER: FIL	DER: FILL OUT ALL INFO	FORMATION ON ' <u>BAS</u>	E INFORMATIO	<u>N SHEET' BEFORE</u>	ENTERING DA	BEFORE ENTERING DATA ON THIS SHEET	
Site Name: Building Name:	Knott Elementary School Main			An unused An automa	cell or system tically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ive direct user in ut elsewhere in	nput the file - do not ov	erwrite		
Building ID:	21810003					LEVEL OF ACTION	-		_		
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
A SUBSTRUCTURE	ш										
A10 Foundations A1010 : A1020 :	<u>ndations</u> A1010 Standard Foundations A1020 Snecial Foundations			None	Minor	Moderate	Major Maior	Replace Replace		\$0 \$0	
	A1030 Slab on Grade		100% X		Minor	Moderate	Major	Replace		\$0	
AZU B456	iment construction A2010 Basement Excavation A2020 Basement Walls	NOT USED		None None	Minor	Moderate Moderate	Major Major	Replace Replace		\$0	
B SHELL					]	]	1				
idns ntg	<u>B10 Superstructure</u> B1010 Floor Construction	Wood	100% X	None	Minor	Moderate	Maior	Replace		\$0	
		Steel		None	Minor	Moderate	Major	Replace		\$0	
		Concrete		None	Minor	Moderate	Major	Replace		\$0	
	B1020 Roof Construction	Wood	100% X		Minor	Moderate	Major	Replace		\$0	
		Steel Concrete		None	Minor	Moderate	Major	Replace		0¢	
B20 Exter	B20 Exterior Enclosure							inchiace.		0.5	
	B2010 Exterior Walls	Concrete Formed / Tilt	100% X	None	Minor	Moderate	Major	Replace		\$0	
		Masonry		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/Metal Panel		None	Minor	Moderate	Major	Replace		50	
		Framed w/Masonry Veneer		None	Minor	Moderate	Major	Replace		0\$	
	B2020 Exterior Windows	Wood	10%	None	Minor	Moderate	Major	X Replace	100%	\$39,046	
		Aluminum/Steel	%06	None	Minor	Moderate	Major	X Replace	100%	\$377,865	Glass block replacement
		Clad Curtain Wall		None	Minor	Moderate	Major	Replace Replace		\$0 \$0	
	B2030 Exterior Doors	Wood		None	Minor	Moderate	Major	Replace		\$0	
		Hollow Metal	33	None	Minor	X Moderate	Major	Replace	100%	\$42,511	Upgrade / replace hardware, paint
		Storefront		None	Minor	Moderate	Major	Replace		\$0	
B30 Roofing		A		Ē			L L			Ċ,	
		Aspriate Simigre Built-Up	100%	None	Minor	Moderate	Major	X Replace	60%	\$654.966	Re-coat / re-seal by 2024
		Single Plv		None	Minor	Moderate	Major	Replace		\$0	•
		Metal		None	Minor	Moderate	Major	Replace		\$0	
		Concrete Tile		None	Minor	Moderate	Major	Replace		\$0	
	B3020 Roof Openings	Skylights		None	Minor	Moderate	Major	Replace		\$0	By Building GSF
		Access Hatch		None	Minor	Moderate	Major	Replace		\$0	Per hatch

District Name:	Parkrose SD 3		<u><u></u></u>	REMINDER: FILL OUT ALL INFORMATION ON	OUT ALL INFOR	MATION ON 'BAS	E INFORMATIO	FORMATION SHEET' BEFORE ENTERING DATA ON THIS SHEET	ENTERING DA	TA ON THIS SHEET	
Site Name: Building Name:	Knott Elementary School Main			An unused c An automati	ell or system that cally populated	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the f	ive direct user ir it elsewhere in t	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	irwrite		
Building ID:	21810003		1						·		
						LEVEL OF ACTION	7				
			% of Building					Replace as part of	% of System or	Automated Budget	
Level 1 Level 2 Level 3	Level 3	Type (as applicable)	or Number	None	Minor	Moderate	Major	Renovation	Finish	Estimate	Notes
C INTERIORS											
C10 Inter	C10 Interior Construction										
	C1010 Partitions	Framed	85%	X None	Minor	Moderate	Major	Replace		\$0	
		Masonry	15%	X None	Minor	Moderate	Major	Replace		\$0	
	C1020 Interior Doors	Wood	50	None	Minor	X Moderate	Major	Replace	100%	\$51,528 I	Upgrade / replace hardware
		Hollow Metal	19	None	Minor	X Moderate	Major	Replace	100%	\$19,581 I	Upgrade / replace hardware
	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
C20 Stairs	<u>ମ</u>										
	C2010 Stair Construction	Wood		None	Minor	Moderate	Major	Replace		\$0 ¢	Cost/Flight
		Metal		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Concrete		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
	C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace		\$0	Cost/Flight
		Resilient		None	Minor	Moderate	Major	Replace			Cost/Flight
C30 Inter	C30 Interior Finishes			1							
	C3010 Wall Finishes	Paint on Masonry	10%	None	Minor	Moderate	Major	Replace		\$0	
		Wallboard		None	Minor	Moderate	Major	Replace		\$0	
		Wainscot	5%	None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile		None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	2%	None	Minor	Moderate	Major	X Replace	100%	\$19,632	
		Resilient Tile	78%	None	Minor	Moderate	Major	X Replace	100%	6	ACM
		Resilient Sheet	5%	None	Minor	Moderate	Major	X Replace	100%	\$25,191	
		Polished Concrete	2%	X None	Minor	Moderate	Major	Replace		\$0	Sealed concrete
		Ceramic Tile	5%	None	Minor	Moderate	Major	X Replace	100%	\$52,775	
		Liquid Applied		None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Lay-In Ceiling Tile	10%	None	X Minor	Moderate	Major	Replace	25%	\$1,050	
		Glued-Up Ceiling Tile	80%	None	Minor	Moderate	Major	X Replace	50%	\$79,604	
		Painted Structure	5%	X None	Minor	Moderate	Major	Replace		\$0	

District Name: Parkrose SD 3		2	EMINDER: FI	ILL OUT ALL INFO	REMINDER: FILL OUT ALL INFORMATION ON ' <i>BASE INFORMATION SHEET</i> ' BEFORE ENTERING DATA ON THIS SHEET	E INFORMATIC	IN SHEET' BEFORE	ENTERING DA	TA ON THIS SHEET	
			An unused An autom	d cell or system t atically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ive direct user i ut elsewhere in	nput the file - do not ov	erwrite		
								_		
		% of Building					Replace as part of	% of System or	Automated Budget	
Level 1 Level 2 Level 3 D SERVICES	Type (as applicable)	or Number	None	Minor	Moderate	Major	Renovation	Finish	Estimate	Notes
D10 Conveying										
D1010 Elevators & Lifts			None	Minor	Moderate	Major	Replace		\$0	
D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Replace		\$0	
D1090 Other Conveying Systems			None	Minor	Moderate	Major	Replace		\$0	
D20 Plumbing			1		• ]	1	1			
D2010 Plumbing Fixtures		100%	Y None	Minor	Moderate	Major	X Replace	100%	\$200,000	All (N) fixtures req'd to meet ADA by code.
D2020 Domestic Water Distribution		100%	Y None	Minor	Moderate	Major	X Replace	100%	\$30,000	Replace old NG DHW
D2030 Sanitary Waste			N None	Minor	Moderate	Major	Replace	%0	\$0	
D2040 Rain Water Drainage		100%	N None	Minor	Moderate	Major	Replace	%0	\$0	
D2090 Other Plumbing Systems	NOT USED		None	Minor	Moderate	Major	Replace			
U3U RVAC D3010 Fnergy Supply		100%	N NONE	Minor	Moderate	Maior	Renlace	%U	ç	NG on site
D3020 Heat Generating Systems	Boiler	T		Minor	Moderate	Maior	X Replace	100%	\$680.000	Upgrade boiler and heating water piping
	Air Handler	%06	Y None	Minor	Moderate	Major	1	%06	\$450,000	Replace existing HVs and coil heaters
	Furnace	10%	N None	Minor	Moderate	Major	Replace	%0	\$0	
	Heat Exchanger	T	N None	Minor	Moderate	Major	Replace	%0	\$0	
D3030 Cooling Generating Systems	Component of air handler		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Stand alone chiller		N None	Minor	Moderate	Major	Replace	%0	\$0	
D3040 Distribution Systems	Ductwork		N None	Minor	Moderate	Major	Replace	%0	\$0	
	Hot water return & supply	× %06	۲ None	Minor	Moderate	Major	X Replace	100%	\$0	Included in boiler replacement item
D3050 Terminal & Package Units	Above ceiling VAV unit		N None	Minor	Moderate	Major	Replace	%0	\$0	
	In-room ventilator unit	, %09	Y None	Minor	Moderate	Major	X Replace	100%	\$0	coil booster heaters included in AHU item
	In-room radiant unit		N None	Minor	Moderate	Major	Replace	%0	\$0	
D3060 Controls & Instrumentation		100%	۲ None	Minor	Moderate	Major		100%	\$240,000	upgrade to district BAS
D3070 Systems Testing & Balancing D3090 Other HVAC Systems & Fruitinment	NOT LISED	%OOT	None	Minor	Moderate	Maior	A Replace	%OOT	000,81¢	
D40 Fire Protection										
D4010 Sprinklers		%0	Y None	Minor	Moderate	Major	X Replace	100%	\$210,000	add sprinkler system
D4020 Standpipes			N None	Minor	Moderate	Major	Replace	%0	\$0	
D4030 Fire Protection Specialties		1 %0	N None	Minor	Moderate	Major	Replace	%0	\$0	
D4090 Other Fire Protection Systems	NOT USED		None	Minor	Moderate	Major	Replace			
<u>D50 Electrical</u> D5010 Electrical Service & Distribution		100%	None	Minor	Moderate	Maior	V Benlare	7007	¢110.000	Renlace old electrical nanels
		0/007						1000		It intrins and lighting control particip
DSU2U LIGNTING AND BRANCH WITING		1	V None	Minor	Moderate	X Major	Replace	%00T	000/5/¢	בוצוונוווצ מוום ווצוונוווצ כטורניטו בינוסוונ
DOOD COMMINICATIONS & SECURICA	Clock / Intercom System	1 00%		Minor	Moderate	Maior	Replace	%0	0¢	
	Closed Circuit Surveillance			Minor	Moderate	Maior	Renlace	%0	0¢	
	Access Control System	100%		Minor	Moderate	Major	Replace	%0	\$0 \$	
	Intrusion Alarm System	T		Minor	Moderate	Major	Replace	%0	\$0	
	Fire Alarm / Detection			Minor	Moderate	Major	Replace	%0	\$0	
	Lighting Control System		N None	Minor	Moderate	Major	Replace	%0	\$0	
D5090 Other Electrical Systems	NOT USED		None	Minor	Moderate	Major	Replace			

District Name: Site Name:	Parkrose SU 3 Knott Elementary School		ž	An unused	III/DEK: FILL OUT ALL INFORMATION ON BASE INFORMATION 35 An unused cell or system that should not receive direct user input	at should not rece	eive direct user	INDER: FILL OUT ALL INFURMATION ON <u>BASE INFURMATION SPEET</u> BEFUKE EN FERING DATA ON THIS SPEET An unused cell or system that should not receive direct user input		VI A UN THIS SHEET		
Building Name: Building ID:	Main 21810003			An autom.	atically populated	cell from user inp	out elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite			
						LEVEL OF ACTION	N					
Level 1 Level 2	Level 2 Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes	
E EQUIPMENT & FURNISHINGS	FURNISHINGS						•					-
E10 Equipment	lipment		1007	Ē		Ē	~		1000/			
	E 1010 Commercial Equipment	Food Service	70%	None	Minor	Moderate	X Major	Replace	%00T	53,1/9 50		
	E1000 Institutional Family and	Vocational		None	Minor	Moderate	Major	Replace		0¢		_
	ב 2020 ווואנונג נוטוומן בלמוטוופוור			None	Minor	Moderate	Maior	Deplace		0¢		_
		Stage Performance		None	Minor	Moderate	Maior	Renlace		0¢		
		Restroom Accessories/Stalls	100%	None	Minor	Moderate	Maior	X Replace	100%	\$83.130		
	E1030 Vehicular Equipment		2007	None	Minor	Moderate	Maior		2007	007/004		_
	E1090 Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace				_
E20 Furnishings	nishings						,					_
	E2010 Fixed Furnishings		50%	None	Minor	Moderate	X Major	Replace	50%	\$39,256		-
	E2020 Movable Furnishings		50%	None	Minor	Moderate	Major	X Replace	25%	\$125,955		
F SPECIAL CONS	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED											
	ласти											
	WOKK											
G10 Site	G10 Site Preparation	NOT USED										
G20 Site	G20 Site Improvements			Г	[		[	[				
	G2010 Roadways		20000	None	Minor	Moderate	X Major	Replace	75%	\$125,600	Cost/SF of surface area	_
	G2020 Parking Lots		26000	None	Minor	Moderate	X Major	Replace	50%	\$108,853	Cost/SF of surface area	_
	G2030 Pedestrian Paving		7700	None	Minor	Moderate	X Major	Replace	25%	\$22,318	Cost/SF of surface area	_
	G2040 Site Development				Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing	_
	G2050 Landscaping		247300 X	None	Minor	Moderate	Major	Replace		\$0	Cost/SF of irrigated area	_
G30 Site	G30 Site Mechanical Utilities	:	ŀ					Ĺ		4	Fater ( af airs is an (44)	
	G3010 Water Supply	Domestic	100 X	T	Minor	Moderate	Major	Replace		\$0	Enter LF of pipe in cell E143	_
		Fire		None	Minor	Moderate	Major	Replace		\$0		_
	G3020 Sanitary Sewer		100 X	Т	Minor	Moderate	Major	Replace		\$0	Enter LF of sewer lines in cell E145	_
	G3030 Storm Sewer			None	Minor	Moderate	Major	Replace		\$0	Enter SF of area to be drained	_
	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of heating ducts in cell E14/	_
	G3050 Cooling Distribution			None	Minor	Moderate	Major	Keplace		04	Enter LF of duct Work III cell E 148 Estar I E of natural car liner in call E140	_
	G3060 Fuel Distribution			None	Minor	Moderate	Major	Replace		٥¢	citer Lr of figure a gas lifes in cent c1+3	_
010 010		NOI USED		NOLIE	INITIO	INIOUERALE	IVIAJOI	иеріасе				_
040 316			ŀ				ſ			40		
	64010 Electrical Distribution	Service	X %NNT	1	Minor	Moderate	Major	Keplace		0¢		_
		Generator	1000/		Minor	Moderate	Major	Keplace		0¢ 4		_
			X %NNT	Т	Minor	Moderate	Major	Keplace		0¢		_
				None	Minor	Moderate	Major	Replace		٥¢		_
				None	MINO	Moderate	Major	керіасе				
	G90 Other Site Construction	NOT USED										
OTHEK						2 4 4 4 1						
	Description of Sustam					Unit of Measure	Ouantity	Unit Budget		Fxtended	Notes	
							dammer 4	A IN DURDER		çu		_
									- -	τv		_
										τv		_
										0\$		
									-			_
							ī					

 Physical Condition Budget Sub-Total
 \$4,108,327

 Budgeted Development Costs
 \$1,561,164

 Physical Condition Budget TOTAL
 \$5,659,492

 Cost with Escalation to une 2021
 \$6,453,220

 Cost with Escalation to une 2022
 \$6,90,519

 Cost with Escalation to une 2022
 \$6,90,519

 Cost with Escalation to une 2023
 \$6,690,619

 Replacement Budget
 \$16,663,964

 Facility Condition Index (FC)
 38.8%

Page 4

District Name: Parkrose SD 3			R	MINDER: FI	LL OUT ALL INF	REMINDER: FILL OUT ALL INFORMATION ON ' <u>BASE INFORMATION SHEET</u> ' BEFORE ENTERING DATA ON THIS SHEET	E INFORMATIC	<u>on sheet</u> ' before i	ENTERING DAT	ra on this sheet	
Site Name: District Office Building Name: Main Building ID: 0				An unusec An autom:	d cell or system stically populate	An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the file - do not overwrite	ve direct user it elsewhere in	input ı the file - do not ove	?rwrite		
						LEVEL OF ACTION					
Level 1 Level 2 Level 3		Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
A SUBSTRUCTURE								-			
A10 Foundations				Mono	Minor	Moderate	Maior	Doctor		ç	
ATULU Standar u FOUNALIUN A1020 Special Foundations	tations			None	Minor	Moderate	Maior	Replace		0¢	
A1030 Slab on Grade			100% X	X None	Minor	Moderate	Major	Replace		\$0	
A20 Basement Construction				1		]	- - 1		]		
A2010 Basement Excavation A2020 Basement Walls		NOT USED		None	Minor	Moderate	Major Maior	Replace		ç	
B SHELL										2	
<b>B10</b> Superstructure								l			
B1010 Floor Construction		Wood		None	Minor	Moderate	Major	Replace		\$0	
	5	Steel		None	Minor	Moderate	Major	Replace		\$0	
B1020 Roof Construction		Loncrete Wood	100% ×	None	Minor	Moderate	Major	Replace		0¢	
		Steel		None	Minor	Moderate	Major	Replace		\$0	
	Ŭ	Concrete		None	Minor	Moderate	Major	Replace		\$0	
<b>B20 Exterior Enclosure</b>											
B2010 Exterior Walls		Concrete Formed / Tilt	50%	None	Minor	X Moderate	Major	Replace	25%	\$10,833	Header repair at maintenance building
	Σ.	Masonry		None	Minor	Moderate	Major	Replace		\$0	
		Framed w/ Wood Siding	25%	None	Minor	X Moderate	Major	Replace	100%	\$20,466 ćĉ	
		Framed w/Metal Panel		None	Minor	Moderate	Major	Keplace		\$0 5	
	īů	Framed w/Stucco Framed w/Maconry Veneer	75%	v None	Minor	Moderate	Major	Replace		0¢ \$	
B2020 Exterior Windows		Wood			Minor	Moderate	Major	Replace		\$0	
	AI	Aluminum/Steel	100% X	X None	Minor	Moderate	Major	Replace		\$0	
	C	Clad		None	Minor	Moderate	Major	Replace		\$0	
20020 Estavior		Curtain Wall		None	Minor	Moderate	Major	Replace		\$0	
		woou Hollow Metal	۷	None	Minor	Moderate >	X Maior	Renlace	100%	510.048	Upgrade / replace hardware
	: 55	Storefront	9 4	None	Minor	-		Replace	50%	\$3.092	Hardware repair / replacement
B30 Roofing				7			- 			/-+	
B3010 Roof Coverings		Asphalt Shingle		None	Minor	Moderate	Major	Replace		\$0	
	B	Built-Up	65%	None	Minor	Moderate	Major	X Replace	50%	\$225,326	Restore DO, Replace Maintenance + Bus
	SI	Single Ply		None	Minor	Moderate	Major	Replace		\$0	
	ž	Metal	35%	None	Minor	X Moderate	Major	Replace	100%	\$50,212	Restore
		Concrete Tile		None	Minor	Moderate	Major	Replace		\$0 \$	By Building CCE
B3020 Roof Openings		Skylights Accord Hatch		None	Minor	Moderate	Major	Replace		0¢ 4	by building GSF Der hatch
	Ŕ	Access Hatch		None	MINO	Moderate	Major	Keplace		0¢	

District Name	Parkrose SD 3		œ	FMINDER: FIL	BEMINDER: EILL OUT ALLINEORMATION ON	MATION ON 'BAS	F INFORMATIC	<u>ORMATION SHEET</u> , BEFORE ENTERING DATA ON THIS SHEET	<b>ENTERING DA</b>	TA ON THIS SHEFT	
Site Name:	District Office			An unused	cell or system th	An unused cell or system that should not receive direct user input	ive direct user in	nput			
Building Name: Building ID:	Main 0			An automat	ically populated	l cell from user inpu	ut elsewhere in	An automatically populated cell from user input elsewhere in the file - do not overwrite	erwrite		
•						LEVEL OF ACTION	7		_		
		-	% of Building	:	;	-		Replace as part of	% of System or	dget	
C INTERIORS	LEVEL 3	iype (as applicable)	or Number	None	MINO	Moderate	Major	Kenovation	FINISN	Estimate	Notes
C10 Inter	C10 Interior Construction										
	C1010 Partitions	Framed	75%	X None	Minor	Moderate	Major	Replace		\$0	
		Masonry	25%	X None	Minor	Moderate	Major	Replace		\$0	
	C1020 Interior Doors	Wood	12	None	Minor	X Moderate	Major	Replace	100%	\$12,367	Upgrade / replace hardware
		Hollow Metal	13	None	Minor	Moderate	X Major	Replace	100%	\$18,421 (	Upgrade / replace hardware, paint
) C20 Staire	C1030 Fittings	NOT USED		None	Minor	Moderate	Major	Replace			
720 3101	C3010 Stair Construction	Wood		None	Minor	Moderate	Maior	Donlard		çu	Cost/Flight
	רבחדם שנשון בטוושנו מרנוסוו			None	Minor	Moderate	Major	Poplace			Cost/Flight
		Metal Concreto		None	Minor	Moderate	Major	Peplace		000	Cost/Flight
		CONCIENCE		NOIR		INIONEI ALE	INIAJUI	Lepidce			
	C2020 Stair Finishes	Concrete Fill		None	Minor	Moderate	Major	Replace		\$0	Cost/Fiight
		Resilient		None	Minor	Moderate	Major	Replace			Cost/Filght
C30 Inte	C30 Interior Finishes										
	C3010 Wall Finishes	Paint on Masonry	30%	None	X Minor	Moderate	Major	Replace	50%	\$8,960	
		Wallboard	%09	None	X Minor	Moderate	Major	Replace	50%	\$16,159	
		Wainscot	5%	X None	Minor	Moderate	Major	Replace		\$0	
		Ceramic Tile		X None	Minor	Moderate	Major	Replace		\$0	
	C3020 Floor Finishes	Carpet / Soft Surface	40%	None	Minor	Moderate	Major	X Replace	20%	\$35,625	
		Resilient Tile	10%	None	Minor		X Major	Replace	50%	\$6,346	
		Resilient Sheet	5%	None	Minor	Moderate	Major	X Replace	100%	\$15,999	
		Polished Concrete	20%	X None	Minor	Moderate	Major	Replace			Sealed concrete
		Ceramic Tile		None	Minor	Moderate	Major	Replace		\$0	
		Liquid Applied		None	Minor	Moderate	Major	Replace		\$0	
		Wood Sports Floor		None	Minor	Moderate	Major	Replace		\$0	
	C3030 Ceiling Finishes	Wallboard	5%	None	X Minor	Moderate	Major	Replace	25%	\$1,047	
		Lay-In Ceiling Tile	40%	None	X Minor	Moderate	Major	Replace	25%	\$2,667	
		Glued-Up Ceiling Tile		None	Minor	Moderate	Major	Replace		\$0	
		Painted Structure	55%	None	Minor	Moderate	Major	X Replace	20%	\$9,416	
				•							

	-		i								
District Name: Site Name:	Parkrose SD 3 District Office			An unused	NDER: FILL OUT ALL INFORMATION ON An unused cell or system that should not i	AD UNDER: FILL OUT ALL INFORMATION ON BASE INFORMATION SH AD UNDEED CELL OUT SETEM THAT SHOULD NOT RECEIVE GIRECT USER INDUCT	e direct user in	<u>ON SHEET</u> : BEFORE ENTERING DATA ON THIS SHEET indut	NTERING DAT	A ON THIS SHEET	
Building Name:	Main			An automat	ically populated	cell from user input	elsewhere in t	An automatically populated cell from user input elsewhere in the file - do not overwrite	rwrite		
Building ID:	0					LEVEL OF ACTION					
Level 1 Level 2	Level 3	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	Replace as part of Renovation	% of System or Finish	Automated Budget Estimate	Notes
ICES											
D10 Conveying	reying										
	D1010 Elevators & Lifts			None	Minor	Moderate	Major	Replace		\$0	
	D1020 Escalators & Moving Walks			None	Minor	Moderate	Major	Replace		\$0	
	D1090 Other Conveying Systems			None	Minor	Moderate	Major	Replace		\$0	
D20 Plumbing	bing			I							
	D2010 Plumbing Fixtures		100%	None	Minor	Moderate	Major	X Replace	100%	\$135,000	All (N) fixtures req'd to meet ADA by code.
	D2020 Domestic Water Distribution		100%	None	Minor	Moderate	Major	X Replace	100%	\$17,000	Replace old DHWs
	D2030 Sanitary Waste		100% N	I None	Minor	Moderate	Major	Replace	%0	\$0	
	D2040 Rain Water Drainage		100%	N None	Minor	Moderate	Major	Replace	%0	\$0	
	D2090 Other Plumbing Systems	NOT USED		None	Minor	Moderate	Major	Replace			
<u>U30 HVAC</u>			1000/	News		Moderate	100100	Boalage	/00	ţ	NG on site
	Doord Erreigy Juppry D2020 Heat Generation Systems	Boiler			Minor	Moderate	Major	Peplace	0/0	0¢	
	DOZO IICAL OCIICI ALIIB JASICIIIS	Air Handler	t	1	Minor	Moderate	Maior	Renlace	%0	0¢	
		Furnace	100%	1	Minor	Moderate	Major	X Replace	50%	\$55.000	Replace old furnace and gas unit heaters
		Hoot Evchander	T		Minor	Moderate	Maior	Donlare	700	çu	•
	D3030 Cooling Generating Systems	Component of air handler	×0	N None	Minor	Moderate	Major	Replace	%0	0\$	
	•						,				
		Stand alone chiller		Y None	Minor	Moderate	Major	X Replace	20%	\$0	Included in furnace replacement for one split DX
	D3040 Distribution Systems	Ductwork		N None	Minor	Moderate	Major	Replace	%0	\$0	
		Hot water return & supply		N None	Minor	Moderate	Major	Replace	%0	\$0	
	D3050 Terminal & Package Units	Above ceiling VAV unit	J %0		Minor	Moderate	Major	Replace	%0	\$0	
		In-room ventilator unit			Minor	Moderate	Major	Replace	%0	\$0	
		In-room radiant unit			Minor	Moderate	Major	Replace	%0	\$0	
	D3060 Controls & Instrumentation		100% Y		Minor	Moderate	Major	X Replace	100%	\$115,000	Upgrade to district BAS
	D3070 Systems Testing & Balancing		100%	Y None	Minor	Moderate	Major	X Replace	100%	\$12,000	Estimated for RCx
	D3090 Other HVAC Systems & Equipment	NOT USED		None	Minor	Moderate	Major	Replace			
D40 Fire	D40 Fire Protection			F		l ſ		Γ			-
	D4010 Sprinklers		%0	None	Minor	Moderate	Major	X Replace	100%	\$130,000	add sprinkier system
	04020 Stattuppes D4030 Fire Protection Specialties			N NONE	Minor	Moderate	Maior	Renlace	%0	0¢	
	D4090 Other Fire Protection Systems	NOT USED			Minor	Moderate	Major	Replace			
D50 Electrical	rical										
	D5010 Electrical Service & Distribution			N None	Minor	Moderate	Major	Replace	%0	\$0	
	D5020 Lighting and Branch Wiring		100%	None	Minor	Moderate X	Major	Replace	100%	\$43,000	Lighting and lighting control retrofit
	D5030 Communications & Security	Voice / Data System		N None	Minor	Moderate	Major	Replace	%0	\$0	
		Clock / Intercom System		N None	Minor	Moderate	Major	Replace	%0	\$0	
		Closed Circuit Surveillance			Minor	Moderate	Major	Replace	%0	\$0	
		Access Control System		N None	Minor	Moderate	Major	Replace	%0	\$0	
		Intrusion Alarm System	100%		Minor	Moderate	Major	Replace	%0	\$0	
		Fire Alarm / Detection			Minor	Moderate	Major	Replace	%0	\$0	
		Lighting Control System	5% P	N None	Minor	Moderate	Major	Replace	%0	\$0	
	D5090 Other Electrical Systems	NOT USED		None	Minor	Moderate	Major	Replace			

District Name: Parkro Site Name: Distri Building Name: Main	Parkrose SD 3 District Office Main			An unused cel An unused cel An automatic	OUT ALL INFOR I or system tha ally populated o	AINDER: FILL OUT ALL INFORMATION ON BASE INFORMATION SF An unused cell or system that should not receive direct user input An automatically populated cell from user input elsewhere in the i	<u>SE INFORMATIO</u> eive direct user ir out elsewhere in <sup>.</sup>	REMINDER: FILL OUT ALL INFORMATION ON <u>BAZE INFORMATION SHEET</u> BEFORE ENTERING DATA ON THIS SHEET An unused cell or system that should not receive direct user input An automatically consultated cell from user input elsewhere in the file – do not overwrite	NTERING DAT	A ON THIS SHEET		
						LEVEL OF ACTION	Z					
							:	Replace as	% of			Г
Level 1 Level 2 Level 3	13	Type (as applicable)	% of Building or Number	None	Minor	Moderate	Major	part of Renovation	۲.	Automated Budget Estimate	Notes	
MENT & I	VISHINGS											
E1010	) Commercial Equipment	Food Service		None	Minor	Moderate	Major	Replace	Π	\$0 \$		П
E10.	L1020 Institutional Equipment	Vocational Science		None None	Minor Minor	Moderate Moderate	Major Major	Replace	T	\$0 \$0		
		Art Stage Performance		None None	Minor Minor	Moderate Moderate	Major Major	Replace		\$0		
E10	ent	Restroom Accessories/Stalls NOT USED	100%	None None	Minor Minor	Moderate Moderate	Major Major	X Replace Replace	50%	\$26,399		
E20 Euroiching	Other Equipment	NOT USED		None	Minor	Moderate	Major	Replace				
EZU FUTTISTIT E20. E20.	isini <u>es</u> E2010 Fixed Furnishings E2020 Movable Furnishings		50% 50%	None None	Minor Minor	Moderate Moderate	X Major Major	Replace X Replace	50% 15%	\$24,932 \$47,998		
F SPECIAL CONSTRUC	F SPECIAL CONSTRUCTION & DEMOLITION - NOT USED											
<b>G BUILDING SITE WORK</b>	×											
G10 Site Preparation		NOT USED										
G20 Site Improvements	ovements		01001	L			Ē	ļ	10001			Г
620	GZUTU ROAdways G2020 Parking Lots		13949 40088	None x	X Minor X Minor	Moderate	Major	Replace	100%	\$8,211 \$81.077	Cost/SF of surface area	Т
G20 G20	G2030 Pedestrian Paving		2901 X	None	Minor	Moderate	Major	Replace	0/00T	\$0 \$0	Cost/SF of surface area	T
G20	G2040 Site Development		t	None	Minor	Moderate	Major	Replace		\$0	Cost/LF of fencing	T
G20	G2050 Landscaping		7175	None	Minor	Moderate	Major	X Replace	10%	\$2,311	Side by DO east side	П
G30 Site Meci			ŀ			a to derete			ſ	ç	Entor   E of nino in col E113	Г
13U	G3010 Water Supply	Domestic Fire	X OUL	None	Minor	Moderate	Major	Replace		0¢	Enter LF of pipe in cell E144	Т
G30	G3020 Sanitary Sewer		100 X	None	Minor	Moderate	Major	Replace		\$0	Enter LF of sewer lines in cell E145	Т
G30	G3030 Storm Sewer			None	Minor	Moderate	Major	Replace	ľ	\$0	Enter SF of area to be drained	
G30	G3040 Heating Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of heating ducts in cell E147	
G30	G3050 Cooling Distribution			None	Minor	Moderate	Major	Replace		\$0	Enter LF of duct work in cell E148	
630 630	G3060 Fuel Distribution G3090 Other Site Mechanical Utilities	NOT USED		None	Minor Minor	Moderate Moderate	Major Major	Replace		ŞO	enter LF of natural gas lines in cell E149	
G40 Site Electrical Utilities								- ·				
G40	G4010 Electrical Distribution	Service	100% X	None	Minor	Moderate	Major	Replace		\$0		
640	G4030 Site Lighting	Generator	100% X	None	Minor	Moderate	Major	Replace	T	0¢		Т
640	G4030 Site Communications & Security			None	Minor	Moderate	Major	Replace	T	\$0		
G40	lectrical Utilities	NOT USED		None	Minor	Moderate	Major	Replace				
OTHER	G90 Other Site Construction	NOT USED										
OTTLN						Unit of						
Dest	Description of System					Measure	Quantity	Unit Budget		Extended	Notes	
										\$0		П
										\$0		
<u> </u>										0\$		
										0.4		٦
							Physic	Physical Condition Budget Sub-Total	Sub-Total	\$1,164,912 \$447 667		
							Рhv	buageted Development Costs Physical Condition Budget TOTAL		\$1.607.579		
							Ő	Cost with Escalation to June 2021	June 2021	\$1,832,640		
							Cost	Cost with Escalation to June 2022	June 2022	\$1,905,945 \$1 087 182		
									1011- 5050	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		

\$10,420,877 17.6%

Replacement Budget Facility Condition Index (FCI)

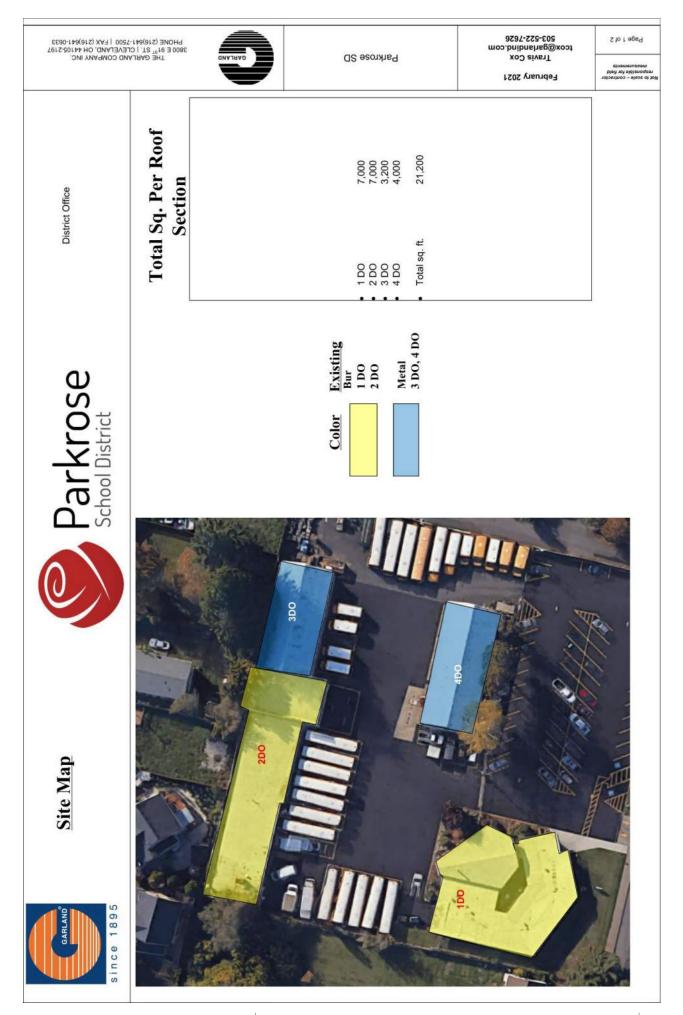
## APPENDIX E

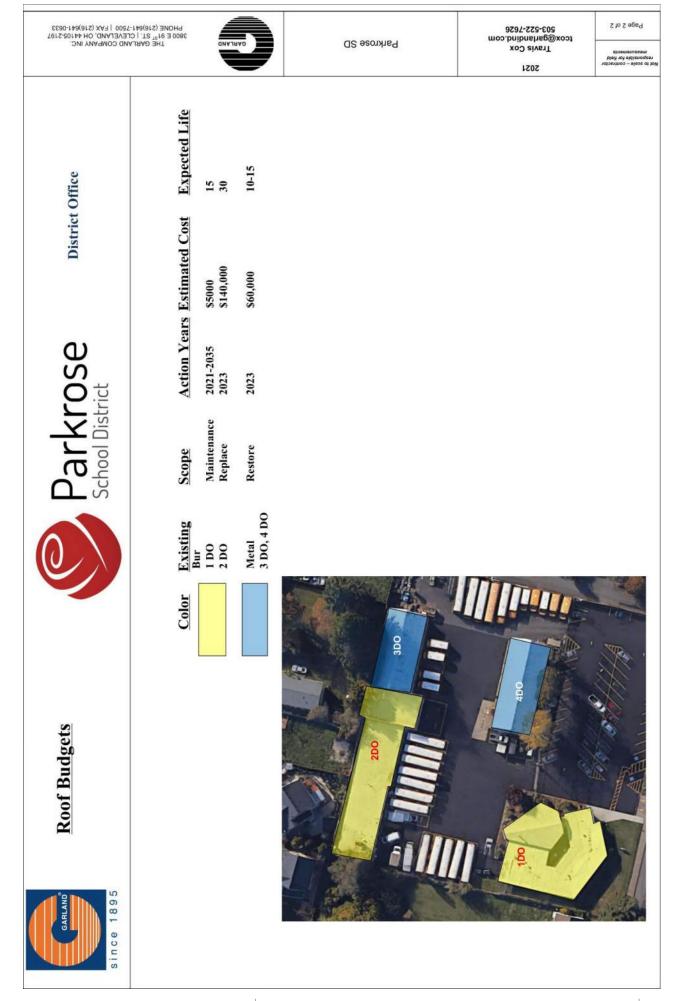
## ROOFING REPORT

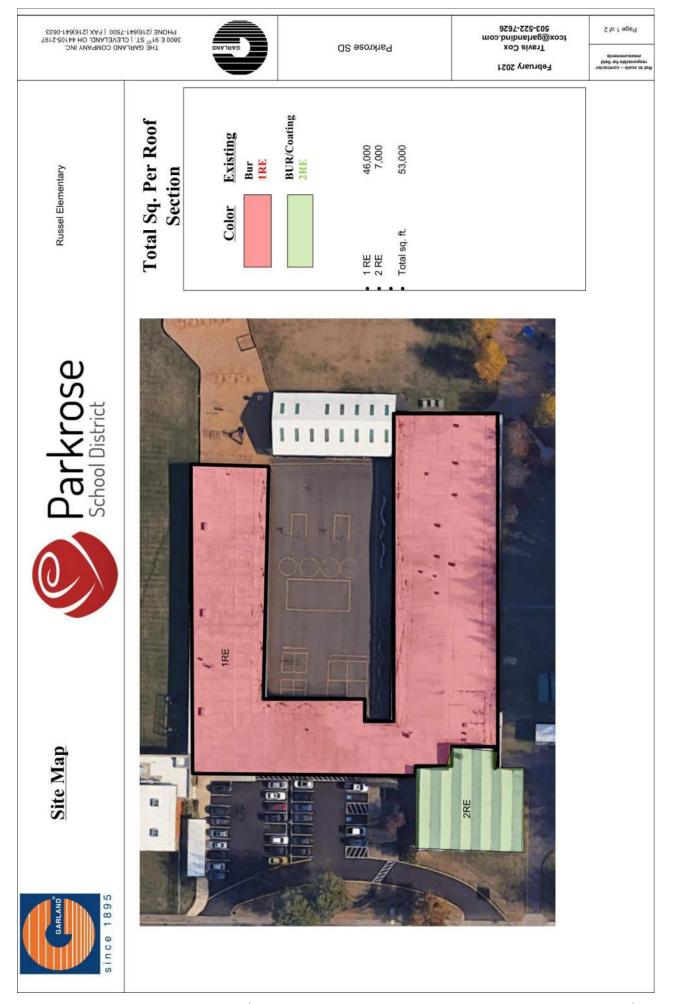


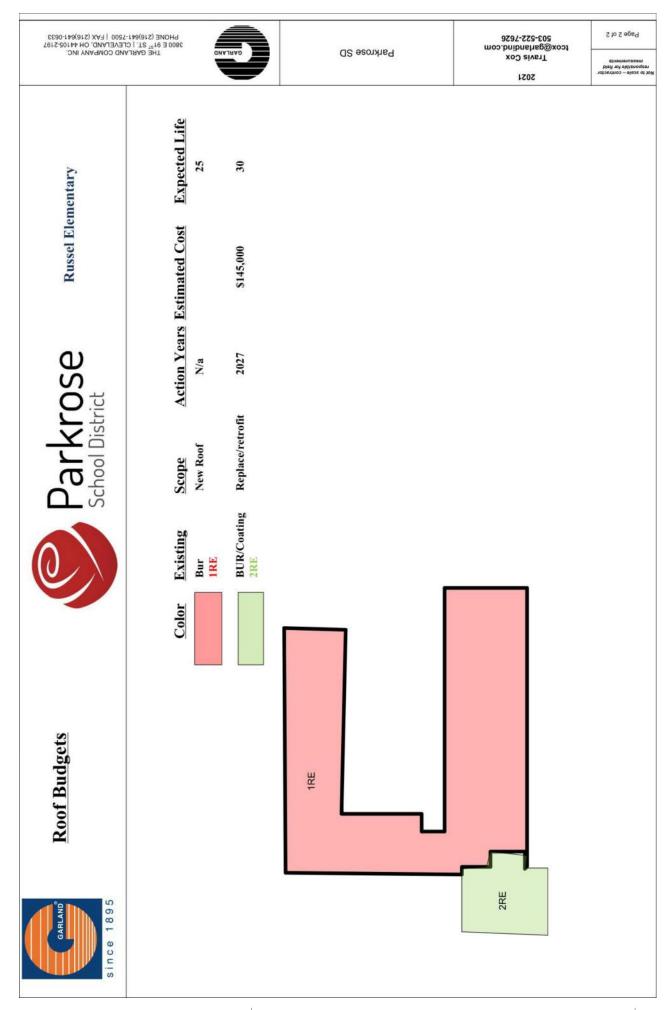
ZUD COMPANY INC. TEVELAND, OH 44105-2197 7600   FAX (216)641-0633	THE GARLY 3800 E 91 <sup>37</sup> 57.   Cl PHONE (216)641-	GVBL		Parkrose SD	Travis Cox Travis Com 503-522-7626	Page 2 of 2
<u>.</u>					February 2021	Not to scale – contractor Not fo scale – contractor Not of eldiznogen tomenuscem
ie HS	Expected Life	15	15	30		
Parkrose HS	Action Years Estimated Cost 2032 n/a	\$475000	\$475,000	\$30,000		
<b>rose</b> trict	Action Year 2032	2023-2025	2021-2024	2022		
Parkrose School District	Scope g n/a 20h, 22h	PVC Restore 1h,3h,8h,12h, 15h,17h, 19h, 21h	Restore 9h,10h,11h,13h,14h	Replace		
0	Existing Sc Bur/Coating n/ 4h,7h, 18h, 20h, 22h	PVC 1h,3h,8h,12	BUR 2h,5h,6h,9h	BUR		
	Color					
Roof Budgets						
Gantaup since 1895						





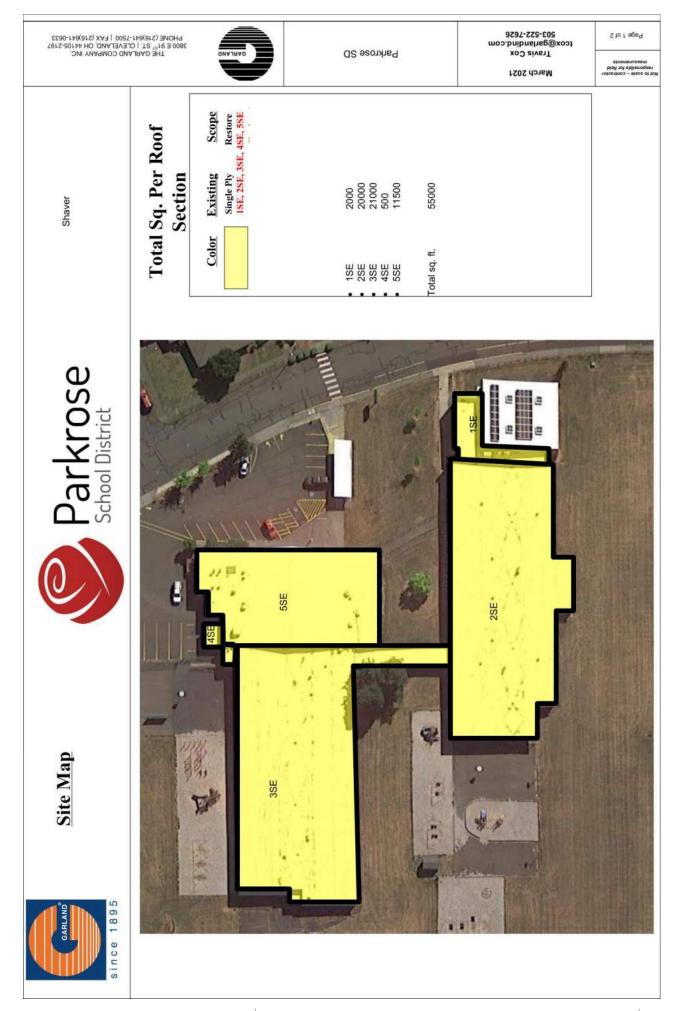


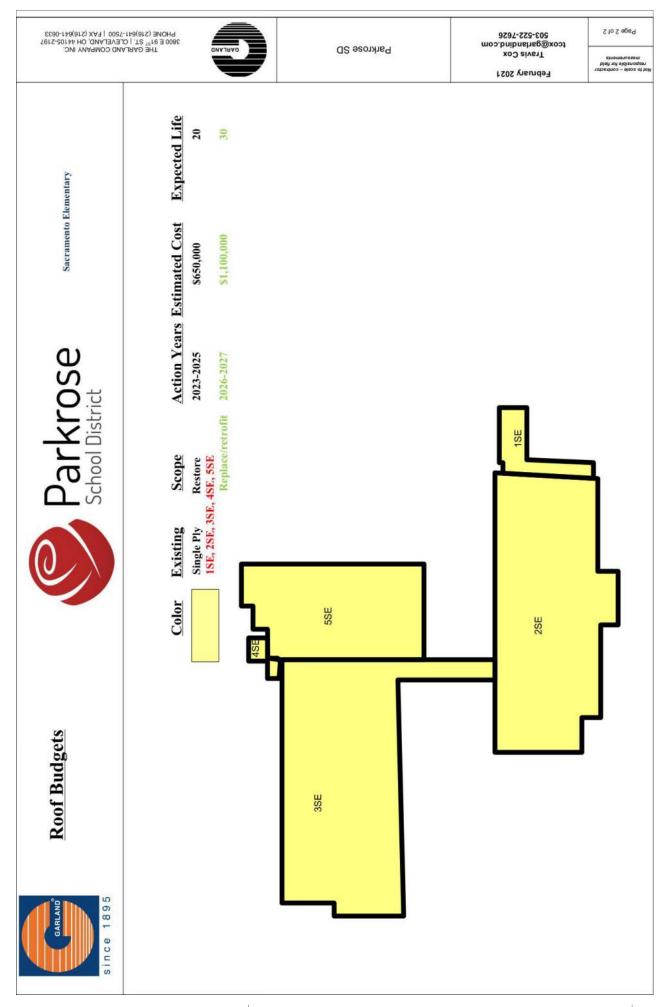


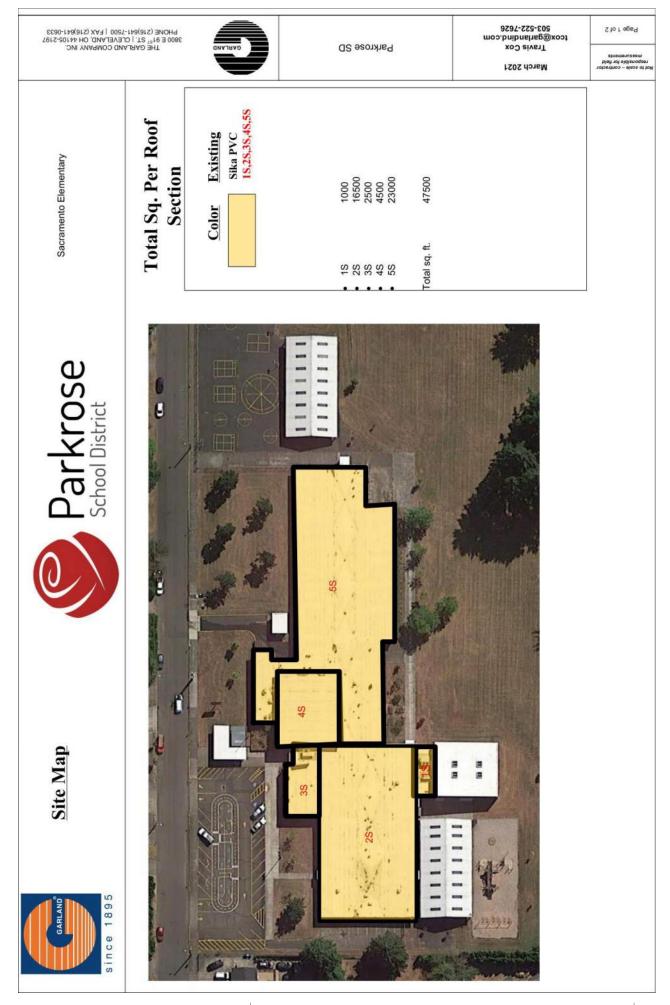


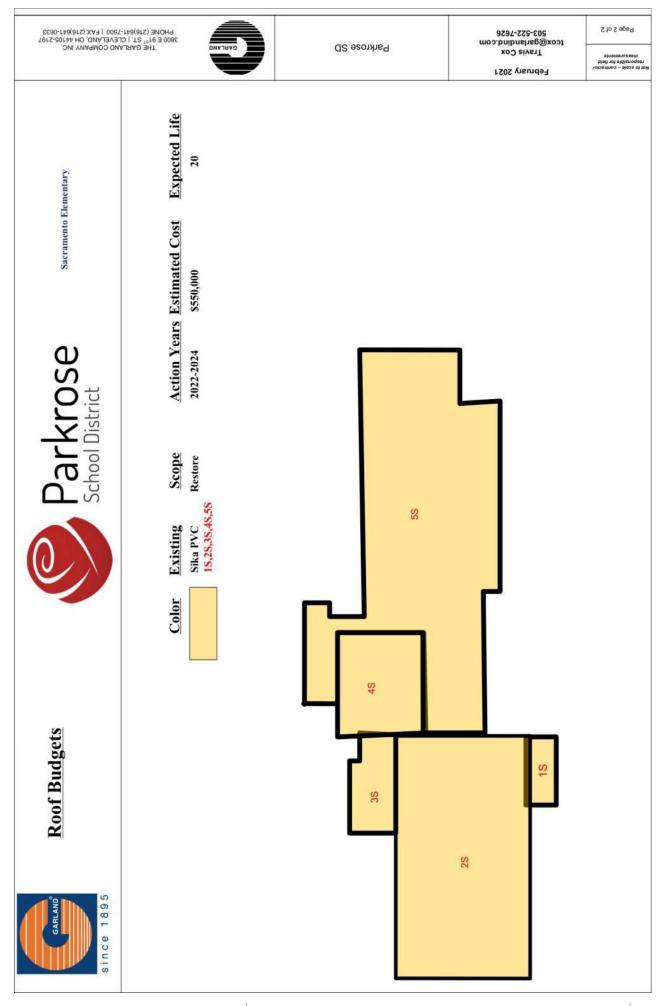


Савсько 2800 Е 91 <sup>67</sup> 57.1 ССЕУЕСКИО. ОН 44105-2197 2800 Е 91 <sup>67</sup> 57.1 ССЕУЕСКИО. ОН 44105-2197 РНОИЕ (216)641-7500 Г FAX (216)641-0633					DS escharge SD	2021 Travis Cox 503-522-7626 503-522-7626	Vot to scale - contractor responsible for field measurements
tley	Expected Life	30	30	10			
Wheatley	Action Years Estimated Cost	n/a	\$50,000	\$175,000			
Parkrose School District	Action Year	21	2022	2028	14. S		
	Scope	Replaced 2021	Replace	Resurface			
0	Existing	1 WE	BUR 2 WE	BUR 3WE			
	Color						
Roof Budgets							
since 1895							











тор сомреии ис. 1500   FXX (216)641-0633 7500   FXX (216)641-0633	САЯLAND 2800 Е 91 <sup>37</sup> 57.   СО РРНОИЕ (216)641-		Parkrose SD	February 2021 Travis Cox 503-522-7626 503-522-7626	Vationities - sinse of took too for the form the sinementuseem Page 2 of 2
iew	Expected Life 30 30	30			
Helenview	Action Years Estimated Cost 2022 \$325,000 2022 \$410,000 2023 \$200,000	S470,000			
Parkrose School District	Action Years 2022 2022	2024			
Park School D	<u>Scope</u> Retrofit Replace				
	Existing Bur 3HV, 4HV	VHS,VHC,VHI			
	Color				
Roof Budgets			ahv ahv		
Since 1895					



