

Lakeland Joint School District #272

15506 N. Washington St.
Rathdrum, ID 83858
208-687-0431



**LJSD Vision: A community committed to academic excellence ...
dedicated to student success.**

Board Action Item Request

AGENDA ITEM: Approve/Deny Revised Bids for School Modernization Projects (LMS Parking Lot)

MEETING DATE: May 20, 2026

PREPARED BY: Jessica Grantham, Tim Haag

INFORMATIONAL SUMMARY:

Bids for the previously approved school modernization projects were solicited in accordance with Idaho procurement statutes and facilitated by CM/GC Ginno Construction. Multiple qualified bids were received, as detailed in the updated attached tabulation.

Overall, the original base bids exceeded the project budget by approximately \$172,684. After working with Architects West and Ginno Construction to identify cost-saving measures, the revised budget exceeds the original project budget by \$90,413, a savings of \$82,871 from the original presentation at the April 29, 2026, Board Meeting. Factoring in the bid alternates for the installation of the light poles, the total overage is \$146,889. This is a Guaranteed Maximum Price (GMP) contract, which includes contingency funds for potential change orders.

The City of Rathdrum approved our request to waive approximately \$130,000 in permitting fees across the previously approved school modernization projects. Additionally, we were able to save \$188

FISCAL IMPACT:

The GMP includes a contingency, and any unused funds will remain available for future projects. The amounts presented represent the maximum projected cost for the defined scope of work.

To further mitigate costs, we recommend foregoing the installation of the parking lot lighting bid alternates. Conduit will still be installed to allow for future lighting installation, resulting in an estimated savings of \$86,000.

Sufficient funds are available in the School Modernization Fund to cover the remaining budget overage.

RECOMMENDATION:

We recommend that the Board approve the LMS Parking Lot Project Budget and award the contract for this scope to Ginno Construction (CM/GC).

This authorization allows the CM/GC to execute a GMP amendment and directly hold the subcontracts based on the bids received. This delivery method, which was awarded to Ginno Construction in January 2026, ensures the CM/GC is responsible for project coordination, schedule, and performance, and allows the project to begin immediately to meet completion deadlines.

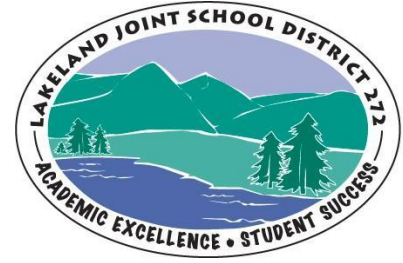
ATTACHMENTS:

- Budget Summary compared to Bids
- April 29, 2026 Board Packet for Project

BUILDING/PROJECT	ORIGINAL BUDGET	ACTUAL BIDS	VARIANCE
LMS/LHS HWY 41 ACCESS SAFETY IMPROVEMENTS			
	\$ 509,600		
01 General Conditions- Survey and Layout		\$ 28,500	
31 Earthwork and Asphalt-Base bid (LIBERTY)		\$ 284,026	
31 ROW permitting & Support (GINNO)		\$ 12,160	
32 Fencing (IDAHO FENCE)		\$ 17,565	
32 Landscaping (ANDRES)		\$ 47,588	
32 Site Concrete- Base bid (FIVE STAR)		\$ 107,113	
32 Site Signage and Misc. Specialties (GINNO)		\$ 28,200	
Fee - General Liability Insurance		\$ 2,650	
Fee - Architect Fees, including design and bid drawings		\$ 86,254	
Fee - CM/GC		\$ 41,225	
Construction contingency (unused savings revert to the school district)		\$ 21,253	
Construction Total		\$ 676,534	
Misc. District Expense Budget (Permits, required testing/inspection, etc.)		\$ 5,750	
Total Original Budget Request	\$ 509,600	\$ 682,284	\$ (172,684)
Delete - 10 Concrete spillways		\$ (1,200)	
Delete - 675 lf of curbing		\$ (20,100)	
Delete - 686 lf of curb and gutter		\$ (23,652)	
Delete - 15 bike racks		\$ (4,000)	
Delete - 3 bollards		\$ (700)	
Reduce - General Liability Insurance		\$ (430)	
Reduce - Architect Fees, including design and bid drawings		\$ (31,950)	
Reduce - Contingency		\$ (239)	
Total Revised Budget Request	\$ 509,600	\$ 600,013	\$ (90,413)
Alternate 1- Light Pole Cost (KAESTNER ELECTRIC)		\$ 43,694	
Alternate 1- Excavation Support (KAESTNER ELECTRIC)		\$ 12,782	
Total Revised Budget Request - with Bid Alternates for Light Poles	\$ 509,600	\$ 656,489	\$ (146,889)

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Board Action Item Request

AGENDA ITEM: Approve/Deny Bids for School Modernization Projects (LMS Parking Lot)

MEETING DATE: April 29, 2026

PREPARED BY: Jessica Grantham, Tim Haag

INFORMATIONAL SUMMARY:

Bids for the previously approved school modernization projects were solicited in accordance with Idaho procurement statutes and facilitated by CM/GC Ginno Construction. Multiple qualified bids were received, as detailed in the attached tabulation.

Overall, the base bids exceeded the project budget by approximately \$172,684. The District is actively working with Architects West and Ginno Construction to identify cost-saving measures, such as reducing curb square footage and utilizing curb stops where appropriate. Additionally, this is a Guaranteed Maximum Price (GMP) contract, which includes contingency funds for potential change orders.

We also anticipate a reduction of approximately \$130,000 in permitting fees across the previously approved school modernization projects, which will help offset the current overage.

FISCAL IMPACT:

The GMP includes a contingency, and any unused funds will remain available for future projects. The amounts presented represent the maximum projected cost for the defined scope of work.

To further mitigate costs, we recommend foregoing the installation of the parking lot lighting bid alternates. Conduit will still be installed to allow for future lighting installation, resulting in an estimated savings of \$86,000.

Sufficient funds are available in the School Modernization Fund to cover the remaining budget overage.

RECOMMENDATION:

We recommend Board approval of the base bid awards for the LMS parking lot projects.

ATTACHMENTS:

- Budget Summary compared to Bids
- Bid Tabulation Sheets
- Bid Packages/Drawings

BUILDING/PROJECT	ORIGINAL BUDGET	ACTUAL BIDS	VARIANCE
LMS/LHS HWY 41 ACCESS SAFETY IMPROVEMENTS - WITH BID ALTERNATES			
<i>LMS/LHS HWY 41 ACCESS SAFETY IMPROVEMENTS</i>	\$ 509,600	\$ 738,497.00	\$ (228,897)
Construction contingency (unused savings revert to the school district)		\$ 24,076.00	
Construction Total		\$ 762,573	
<i>Misc District Expense Budget (Permits, required testing/inspection, etc)</i>		\$ 5,750.00	
OVERALL TOTAL	\$ 509,600	\$ 768,323	\$ (258,723)

BUILDING/PROJECT	ORIGINAL BUDGET	ACTUAL BIDS	VARIANCE
LMS/LHS HWY 41 ACCESS SAFETY IMPROVEMENTS - NO ALTERNATE BIDS			
<i>LMS/LHS HWY 41 ACCESS SAFETY IMPROVEMENTS</i>	\$ 509,600	\$ 655,281.00	\$ (145,681)
Construction contingency (unused savings revert to the school district)		\$ 21,253.00	
Construction Total		\$ 676,534	
<i>Misc District Expense Budget (Permits, required testing/inspection, etc)</i>		\$ 5,750.00	
OVERALL TOTAL	\$ 509,600	\$ 682,284	\$ (172,684)



Bid Package 22 - LMS Site Concrete

Date: 4/27/2026

Job Name: Lakeland SD Bond Projects

Subcontractor / Supplier Name	Bid	Alt #1	Alt #2	Total
White Diamond	\$ 130,467.00	\$ -	\$ 66,906.00	\$ 197,373.00
Evan Ferguson	\$ 65,580.00	\$ -	\$ 32,630.00	\$ 98,210.00
Five Star Concrete	\$ 107,112.50	\$ -	\$ 42,925.00	\$ 150,037.50

DQ



3893 N. Schreiber Way
 Coeur d'Alene, ID 83815
 www.ginnoconstruction.com

P: 208-667-5560
 F: 208-665-0471
 TF: 877-778-9918

Bid Package 21 - LMS Earthwork & Asphalt

Date: 4/27/2026

Job Name: Lakeland SD Bond Projects

Subcontractor / Supplier Name	Bid	Alt #1	Alt #2	Total
Interstate Concrete	\$ 516,774.00	\$ 8,250.00	\$ 15,093.00	\$ 540,117.00
Liberty Landworks	\$ 284,026.00	\$ 12,782.00	\$ 13,147.00	\$ 309,955.00
				\$ -



Bid Form

Bid Package 21 (BP-21): Lakeland Middle School Earthwork and Asphalt

Submitted By (Company Name): _____

The submitting contractor acknowledges that they have familiarized themselves the proposed site of the work, conditions under which work is to be performed and all documents included within the bidding Contract Documents. The contractor agrees to commence work upon a written 'Notice to Proceed' and be Substantially Complete with proposed scope of work within times stipulated.

AWARD METHOD: Public Works construction contracts for the State of Idaho are awarded to the "lowest responsible and responsive bidder." The low bidder, for purposes of award, shall be the responsible and responsive bidder offering the low aggregate amount for the base bid items, plus any additive or deductive bid alternates selected by the Owner, and within funds available as determined by the Owner.

BP-21 INCLUDES BID SECTIONS AND ITEMS BELOW TO FURNISH AND INSTALL:

SECTIONS

- Division 01- General Requirements
- Division 024100 Demolition
- Division 311000 Site Clearing
- Division 312000 Earthmoving
- Division 312500 Stormwater Percolation Swales
- Division 321216 Asphalt Paving
- Division 321713 Parking Bumpers
- Division 321723 Pavement Markings
- Division 329113 Soil Preparation
- Division 334100 Storm Utility Draining Piping

Acknowledgement of Addendum No. ('s): _____

Base Bid Proposal:

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete BP-03 described in the Contract documents for a total lump sum price of:

_____ Dollars (\$ _____)



Bid Form

Alternate #1 Proposal: Provide earthwork support for new parking lot lights. Provide earthwork support for new installation of parking lot lights per electrical drawings.

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

_____ Dollars (\$_____)

Alternate #2 Proposal: Removal of Sidewalk- Removal and disposal of existing sidewalk and prep for new sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

_____ Dollars (\$_____)

Company: _____

Business Address: _____

Idaho Contractor's Registration No.: _____ Expiration Date: _____

Idaho Public Works License No.: _____ Expiration Date: _____

Signature: _____ Date: _____

Printed Name | Title: _____

Contact Number: _____ Email: _____



Bid Form

Bid Package 21 (BP-21): Lakeland Middle School Earthwork and Asphalt

Submitted By (Company Name): Interstate Concrete & Asphalt Co

The submitting contractor acknowledges that they have familiarized themselves the proposed site of the work, conditions under which work is to be performed and all documents included within the bidding Contract Documents. The contractor agrees to commence work upon a written 'Notice to Proceed' and be Substantially Complete with proposed scope of work within times stipulated.

AWARD METHOD: Public Works construction contracts for the State of Idaho are awarded to the "lowest responsible and responsive bidder." The low bidder, for purposes of award, shall be the responsible and responsive bidder offering the low aggregate amount for the base bid items, plus any additive or deductive bid alternates selected by the Owner, and within funds available as determined by the Owner.

BP-21 INCLUDES BID SECTIONS AND ITEMS BELOW TO FURNISH AND INSTALL:

SECTIONS

- Division 01- General Requirements
- Division 024100 Demolition
- Division 311000 Site Clearing
- Division 312000 Earthmoving
- Division 312500 Stormwater Percolation Swales
- Division 321216 Asphalt Paving
- Division 321713 Parking Bumpers
- Division 321723 Pavement Markings
- Division 329113 Soil Preparation
- Division 334100 Storm Utility Draining Piping

Acknowledgement of Addendum No. ('s): N/A

Base Bid Proposal:

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete BP-03 described in the Contract documents for a total lump sum price of:

Five hundred sixteen thousand, seven hundred seventy-four dollars and zero cents. Dollars (\$ 516,774.00)



Bid Form

Alternate #1 Proposal: Provide earthwork support for new parking lot lights. Provide earthwork support for new installation of parking lot lights per electrical drawings.

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete ~~Alternate #2~~ as part of BP-21 described in the Contract documents for a total lump sum price of: ~~#2~~ **#1**

Eight thousand, two hundred fifty dollars and zero cents. Dollars (\$ 8,250.00)

Alternate #2 Proposal: Removal of Sidewalk- Removal and disposal of existing sidewalk and prep for new sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete ~~Alternate #2~~ as part of BP-21 described in the Contract documents for a total lump sum price of:

Fifteen thousand, ninety-three dollars and zero cents. Dollars (\$ 15,093.00)

Company: Interstate Concrete & Asphalt Co

Business Address: 8849 W Wyoming Ave., Rathdrum, ID 83858

Idaho Contractor's Registration No.: RCE-1593 Expiration Date: 01/4/2027

Idaho Public Works License No.: PWC-C-12090 Expiration Date: 7/31/2026

Signature: [Signature] Date: 4/27/2026

Printed Name | Title: Jason Johnston, Construction Manager

Contact Number: 208-666-6110 Email: jason.iohnston@interstate-ica.com



Bid Form

Bid Package 21 (BP-21): Lakeland Middle School Earthwork and Asphalt

Submitted By (Company Name): Liberty Landworks LLC

The submitting contractor acknowledges that they have familiarized themselves the proposed site of the work, conditions under which work is to be performed and all documents included within the bidding Contract Documents. The contractor agrees to commence work upon a written 'Notice to Proceed' and be Substantially Complete with proposed scope of work within times stipulated.

AWARD METHOD: Public Works construction contracts for the State of Idaho are awarded to the "lowest responsible and responsive bidder." The low bidder, for purposes of award, shall be the responsible and responsive bidder offering the low aggregate amount for the base bid items, plus any additive or deductive bid alternates selected by the Owner, and within funds available as determined by the Owner.

BP-21 INCLUDES BID SECTIONS AND ITEMS BELOW TO FURNISH AND INSTALL:

SECTIONS

- Division 01- General Requirements
- Division 024100 Demolition
- Division 311000 Site Clearing
- Division 312000 Earthmoving
- Division 312500 Stormwater Percolation Swales
- Division 321216 Asphalt Paving
- Division 321713 Parking Bumpers
- Division 321723 Pavement Markings
- Division 329113 Soil Preparation
- Division 334100 Storm Utility Draining Piping

Acknowledgement of Addendum No. ('s): No Addendums

Base Bid Proposal:

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete BP-03 described in the Contract documents for a total lump sum price of:

Two hundred Eighty four Thousand Twenty six dollars and cents Dollars (\$284,026)



Bid Form

Alternate #1 Proposal: Provide earthwork support for new parking lot lights. Provide earthwork support for new installation of parking lot lights per electrical drawings.

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

Twelve Thousand Seven hundred Eighty two dollars and 82 cents Dollars (\$12,782.00)

Alternate #2 Proposal: Removal of Sidewalk- Removal and disposal of existing sidewalk and prep for new sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

Thirty thousand one hundred forty seven dollars and 87 cents Dollars (\$13,147.00)

Company: Liberty Landworks LLC

Business Address: 11916 N. Reed Rd Hayden, ID 83835

Idaho Contractor's Registration No.: RCE-44519 Expiration Date: 5-5-2027

Idaho Public Works License No.: 36708 Expiration Date: 11-30-2026

Signature: Kasey Batman Date: 4-27-26

Printed Name | Title: Kasey Batman General Manager

Contact Number: (208) 651-0250 Email: Kasey@Libertylandworks.com



Bid Form

Bid Package 22 (BP-22): Lakeland Middle School Site Concrete

Submitted By (Company Name): _____

The submitting contractor acknowledges that they have familiarized themselves the proposed site of the work, conditions under which work is to be performed and all documents included within the bidding Contract Documents. The contractor agrees to commence work upon a written 'Notice to Proceed' and be Substantially Complete with proposed scope of work within times stipulated.

AWARD METHOD: Public Works construction contracts for the State of Idaho are awarded to the "lowest responsible and responsive bidder." The low bidder, for purposes of award, shall be the responsible and responsive bidder offering the low aggregate amount for the base bid items, plus any additive or deductive bid alternates selected by the Owner, and within funds available as determined by the Owner.

BP-22 INCLUDES BID SECTIONS AND ITEMS BELOW TO FURNISH AND INSTALL:

SECTIONS

Division 01- General Requirements

Division 321313 Concrete Paving

Acknowledgement of Addendum No. ('s): _____

Base Bid Proposal:

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete BP-03 described in the Contract documents for a total lump sum price of:

_____ Dollars (\$ _____)



Bid Form

Alternate #2 Proposal: Sidewalk Replacement- Replacement of sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

_____ Dollars (\$_____)

Company: _____

Business Address: _____

Idaho Contractor's Registration No.: _____ Expiration Date: _____

Idaho Public Works License No.: _____ Expiration Date: _____

Signature: _____ Date: _____

Printed Name | Title: _____

Contact Number: _____ Email: _____



Bid Form

Alternate #2 Proposal: Sidewalk Replacement- Replacement of sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

Sixty six thousand nine hundred and six dollars and zero cents
_____ Dollars (\$ 66,906.00)

Company: White Diamond Concrete, LLC

Business Address: 3786 N Huetter Rd Suite A, Coeur d'Alene, ID 83814

Idaho Contractor's Registration No.: RCE-49799 Expiration Date: 17-Dec-2026

Idaho Public Works License No.: 048181 Expiration Date: 31-Oct-2026

Signature: *Clarence Wayman* Date: 24-April-2026

Printed Name | Title: Clarence Wayman - Estimator

Contact Number: 208-967-3542 Email: clarence@whitediamondconcrete.com



Bid Form

Bid Package 22 (BP-22): Lakeland Middle School Site Concrete

Submitted By (Company Name): Evan Ferguson Concrete inc

The submitting contractor acknowledges that they have familiarized themselves the proposed site of the work, conditions under which work is to be performed and all documents included within the bidding Contract Documents. The contractor agrees to commence work upon a written 'Notice to Proceed' and be Substantially Complete with proposed scope of work within times stipulated.

AWARD METHOD: Public Works construction contracts for the State of Idaho are awarded to the "lowest responsible and responsive bidder." The low bidder, for purposes of award, shall be the responsible and responsive bidder offering the low aggregate amount for the base bid items, plus any additive or deductive bid alternates selected by the Owner, and within funds available as determined by the Owner.

BP-22 INCLUDES BID SECTIONS AND ITEMS BELOW TO FURNISH AND INSTALL:

SECTIONS

- Division 01- General Requirements
- Division 321313 Concrete Paving

Acknowledgement of Addendum No. ('s): 0

Base Bid Proposal:

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete BP-03 described in the Contract documents for a total lump sum price of:

Excludes curb, joint filling, traffic control, shot lands Dollars (\$ 65,580.00)



Bid Form

Alternate #2 Proposal: Sidewalk Replacement- Replacement of sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

Excludes - curb Dollars (\$ 32,630.⁰⁰)

Company: Evan Ferguson Concrete Inc

Business Address: 6215 E Commerce Ln suite C Post Falls ID 83854

Idaho Contractor's Registration No.: RCE-1332 Expiration Date: Dec -19 2026

Idaho Public Works License No.: 16857-b-4 Expiration Date: May -31 2027

Signature: [Signature] Date: 4/27/26

Printed Name | Title: William Heinz president

Contact Number: 509-990-3865 Email: HeinzW387@gmail.com



Bid Form

Alternate #2 Proposal: Sidewalk Replacement- Replacement of sidewalk shown as the Alt #2 on sheet L1.20

The Contractor proposes to furnish all labor, material, equipment, tools, transportation and rentals to complete Alternate #2 as part of BP-21 described in the Contract documents for a total lump sum price of:

Forty Two Thousand Nine Hundred Twenty Five Dollars (\$ 42,925)

Company: FIVE STAR CONCRETE

Business Address: 4307 S. FOSSECH RD SPOKANE, WA 99224

Idaho Contractor's Registration No.: FIVE55C9430A Expiration Date: 4/30/2027

Idaho Public Works License No.: PWC-C-16732 Expiration Date: 6/30/2026

Signature: [Signature] Date: 4-24-2026

Printed Name | Title: THOMAS E. DUGGER

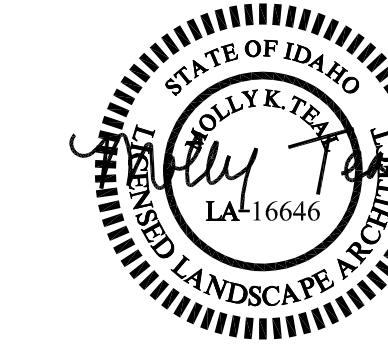
Contact Number: 509-714-5172 Email: Tom@5StarConcrete.com

LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS

LAKELAND SCHOOL DISTRICT 272 - PHASE 3

15601 N. HWY. 41, RATHDRUM ID

JOB NUMBER: 25028



04.10.2026



210 E Lakeside Ave | 850 Spokane Falls Blvd, Ste 200
Coeur d'Alene, ID 83814 | Spokane, WA 99202
t. 208.667.9402 | t. 509.209.8820
architectswest.com

4/10/26

DATE

100% CD

PROJECT PHASE

DRAWING INDEX

GENERAL

G0.00 COVER SHEET

CIVIL

V1.00 EXISTING CONDITIONS MAP
V1.01 CONTROL SHEET
CD-100 SIDEWALK DEMOLITION PLAN
CG-100 SIDEWALK LAYOUT & GRADING PLAN
TC-100 TRAFFIC CONTROL PLAN

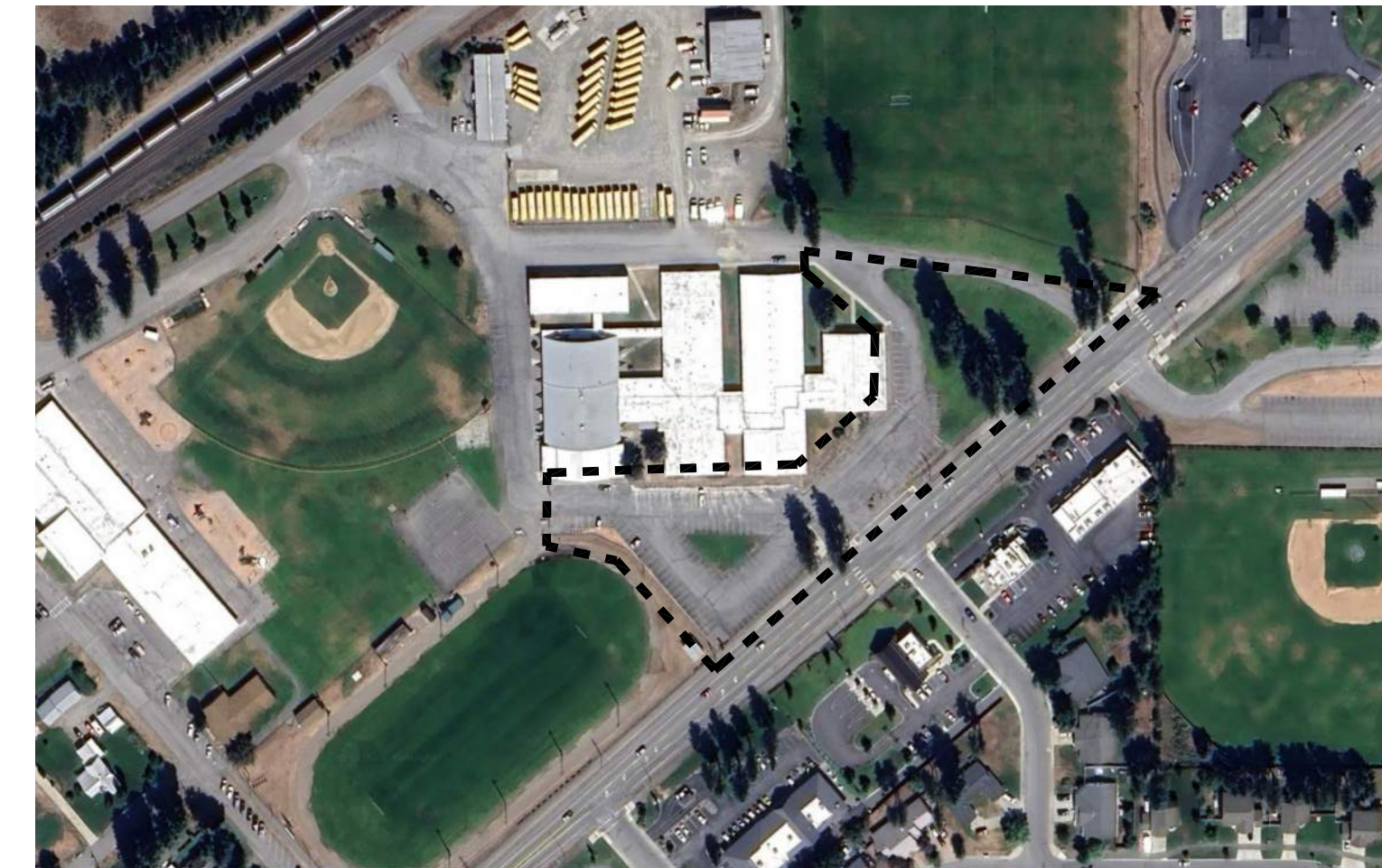
LANDSCAPE

L1.00 CONSTRUCTION SUMMARY
L1.10 DEMOLITION PLAN
L1.20 LAYOUT PLAN
L1.21 DIMENSIONING PLAN
L1.30 GRADING PLAN - WEST
L1.31 GRADING PLAN - EAST
L1.32 STORMWATER AND EROSION CONTROL PLAN
L1.33 STORMWATER NOTES AND DETAILS
L1.40 IRRIGATION PLAN
L1.50 LANDSCAPE PLAN
L1.60 SITE DETAILS
L1.61 SITE DETAILS

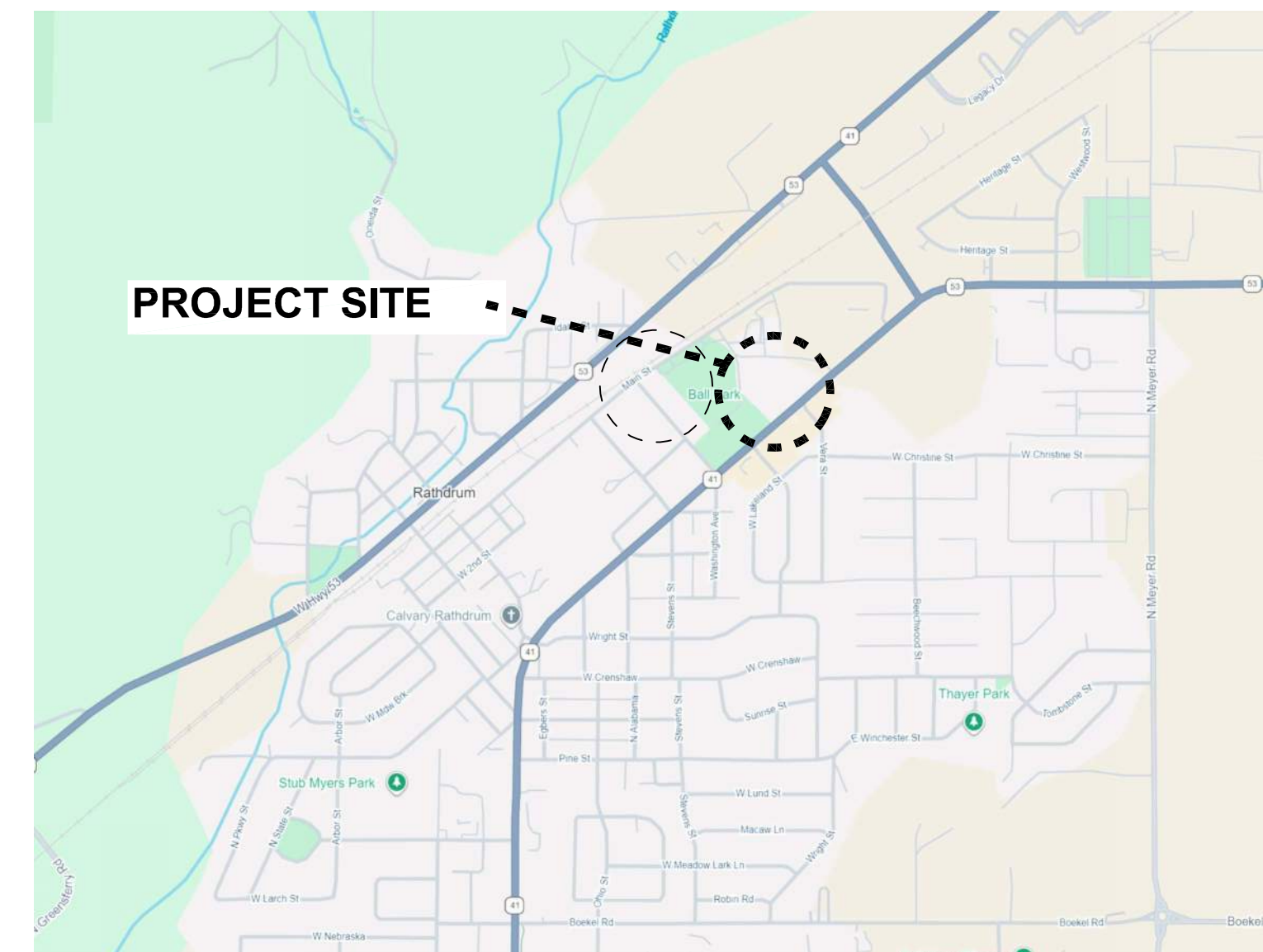
ELECTRICAL

E0.01 ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.02 ELECTRICAL SHEET SPECIFICATIONS
E0.03 ELECTRICAL SHEET SPECIFICATIONS
E0.04 ONE-LINE DIAGRAM
E0.05 ELECTRICAL SCHEDULES AND DETAILS
E1.00 ELECTRICAL SITE PLAN
E1.01PH SITE PHOTOMETRIC PLAN

SITE MAP



VICINITY MAP



DRAWING KEYNOTING SYSTEM

A KEYNOTING SYSTEM IS USED ON THE DRAWINGS FOR MATERIAL REFERENCES AND NOTES. REFER TO THE KEYNOTE LEGEND ON THE DRAWINGS FOR THE INFORMATION WHICH RELATES TO EACH KEYNOTE SYMBOL ON THE RESPECTIVE DRAWINGS. EACH KEYNOTE SYMBOL CONSISTS OF A 6-DIGIT NUMBER FOLLOWED BY A PERIOD AND A LETTER SUFFIX. THE 6-DIGIT NUMBER RELATES TO THE SPECIFICATION WHICH GENERALLY COVERS THE ITEM THAT IS REFERENCED AND THE LETTER SUFFIX COMBINED WITH THE 6-DIGIT NUMBER AND PERIOD, CREATES A KEYNOTE SYMBOL WHICH IDENTIFIES THE SPECIFIC REFERENCE NOTATION USED ON THE DRAWINGS. THE SUFFIX DOES NOT RELATE TO ANY CORRESPONDING REFERENCE LETTER IN THE SPECIFICATIONS. THE ORGANIZATION OF THE KEYNOTING SYSTEM ON THE DRAWINGS, WITH THE KEYNOTE REFERENCE NUMBERS RELATED TO THE SPECIFICATIONS SECTIONS NUMBERING SYSTEM, SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.

DEFERRED SUBMITTALS

N/A

PROJECT CONTACTS

OWNER

LAKELAND SCHOOL DISTRICT
15506 WASHINGTON AVE Phone: (208) 687-9402
RATHDRUM, ID 83858 Email:
DISTRICT OFFICE

LANDSCAPE

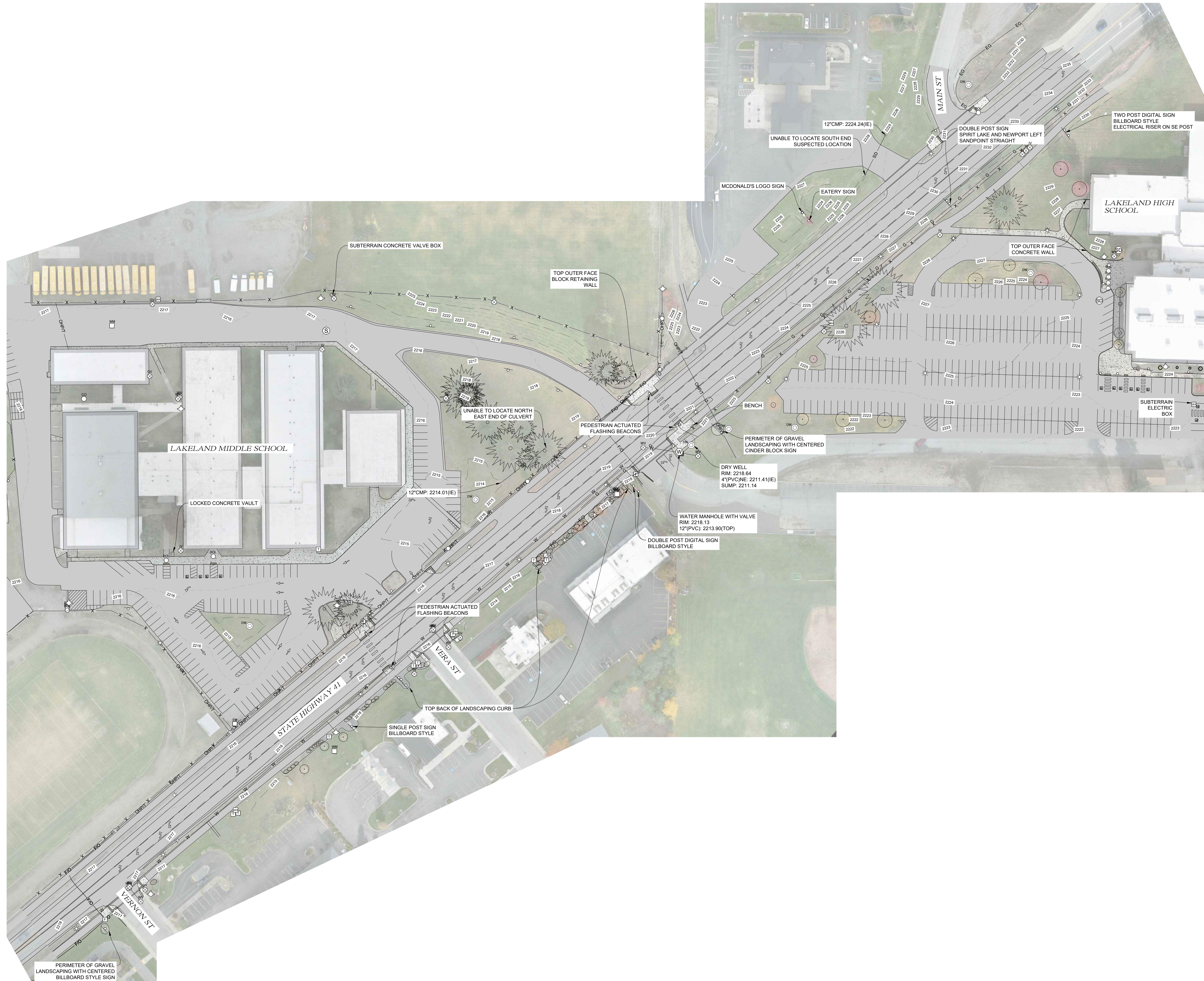
ARCHITECTS WEST
210 EAST LAKESIDE AVE. Phone: (208) 667-9402
COEUR D'ALENE ID, 83814 Email: mollyt@architectswest.com
MOLLY TEAL

CIVIL ENGINEER

HMH ENGINEERING
3882 N. SCHREIBER WAY, SUITE 104 Phone: (208) 635-5825
COEUR D'ALENE, ID 83815 Email: jshaw@hmh-llc.com
JUSTIN SHAW

ELECTRICAL ENGINEER

MORRISON-MAIERLE
203 N. WASHINGTON ST, SUITE 320 Phone: (509) 315-8505
SPOKANE, WA 99201 Email: mmartin@m-m.net
MARK MARTIN



LEGEND

EG	EG	EDGE OF GRAVEL
X	X	FENCE LINE
SAN	SAN	SANITARY SEWER LINE
SD	SD	STORM DRAIN LINE
W	W	WATER LINE
OHPT	OHPT	OVERHEAD UTILITY WIRES
E	E	UNDERGROUND POWER LINE
G	G	GAS LINE
F/O	F/O	FIBER OPTICS LINE
		TRUNCATED DOME
		CONCRETE SURFACE
		CURB AND GUTTER
		EXISTING BUILDING
		ASPHALT SURFACE
		EXISTING GROUND CONTOUR

⊙	⊙	SANITARY SEWER MANHOLE	⊙	⊙	WATER MANHOLE
⊙	⊙	CLEAN OUT	⊙	⊙	FIRE HYDRANT
⊙	⊙	STORM SEWER MANHOLE	⊙	⊙	WATER VALVE
⊙	⊙	STORM CATCH BASIN SQUARE	⊙	⊙	WATER METER
⊙	⊙	DRY WELL GRATE	⊙	⊙	SINGLE POST SIGN
⊙	⊙	UTILITY POLE	⊙	⊙	DOUBLE POST SIGN
⊙	⊙	UTILITY POLE WITH POWER DROP	⊙	⊙	BOLLARD
⊙	⊙	GUY WIRE	⊙	⊙	ADA SIGN
⊙	⊙	ELECTRIC TRANSFORMER	⊙	⊙	MAIL BOX
⊙	⊙	ELECTRIC METER	⊙	⊙	BUSH
⊙	⊙	ELECTRIC JUNCTION BOX	⊙	⊙	CONIFEROUS TREE
⊙	⊙	LIGHT POLE	⊙	⊙	DECIDUOUS TREE
⊙	⊙	GAS VALVE			
⊙	⊙	PRESSURIZED IRRIGATION VALVE			
⊙	⊙	TELEPHONE RISER			
⊙	⊙	FIBER OPTIC RISER			

↶	LEFT TURN ARROW PAVEMENT MARKING
↷	RIGHT TURN ARROW PAVEMENT MARKING
↑	CONTINUE STRAIGHT PAVEMENT ARROW MARKING

GENERAL NOTES

- THIS SURVEY WAS ESTABLISHED BY GPS CONTROL COORDINATES DERIVED FROM NGS OPUS SOLUTIONS USING A REFERENCE FRAME OF NAD83 (2011) EPOCH: 2010.000. ALL BEARINGS REFER TO IDAHO STATE PLANE COORDINATE SYSTEM OF 1983, WEST ZONE, (1103). UNITS ARE US SURVEY FT. DISTANCES HAVE BEEN CONVERTED FROM GRID TO GROUND USING A COMBINED ADJUSTMENT FACTOR (CAF) DERIVED FROM OPUS OF 1.0000809630 (SCALED FROM N: 0, E: 0). ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 USING GEOID 18.
- TOPOGRAPHIC SURVEY WAS PERFORMED DURING THE MONTH OF SEPTEMBER 2025.
- UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON ABOVE GROUND EVIDENCE ONLY. THE SURVEYOR MAKES NO GUARANTEE OF EXACT PLACEMENT OF UNDERGROUND UTILITIES.

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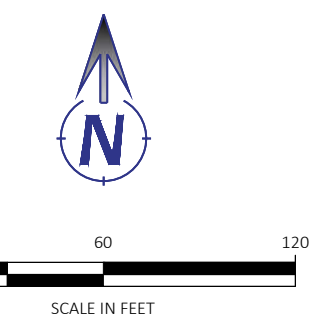
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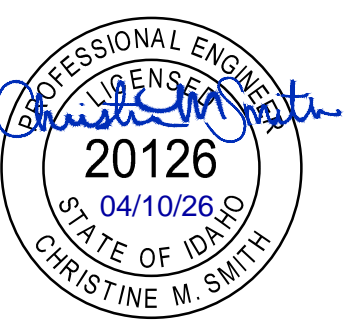
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No.	Description	Date

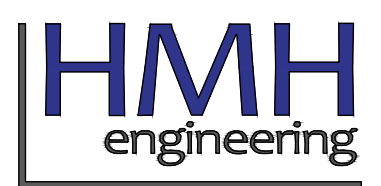
LAKELAND JOINT SCHOOL DISTRICT 272
LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
15601 ID-41, RATHDRUM, ID 83858
EXISTING CONDITIONS MAP

PROJECT NO.	25028
DESIGNED BY	CS
DRAWN BY	RE
ISSUE DATE	4/08/2026
PHASE	100% DD
CHECKED BY	DI
SHEET NO.	V.100





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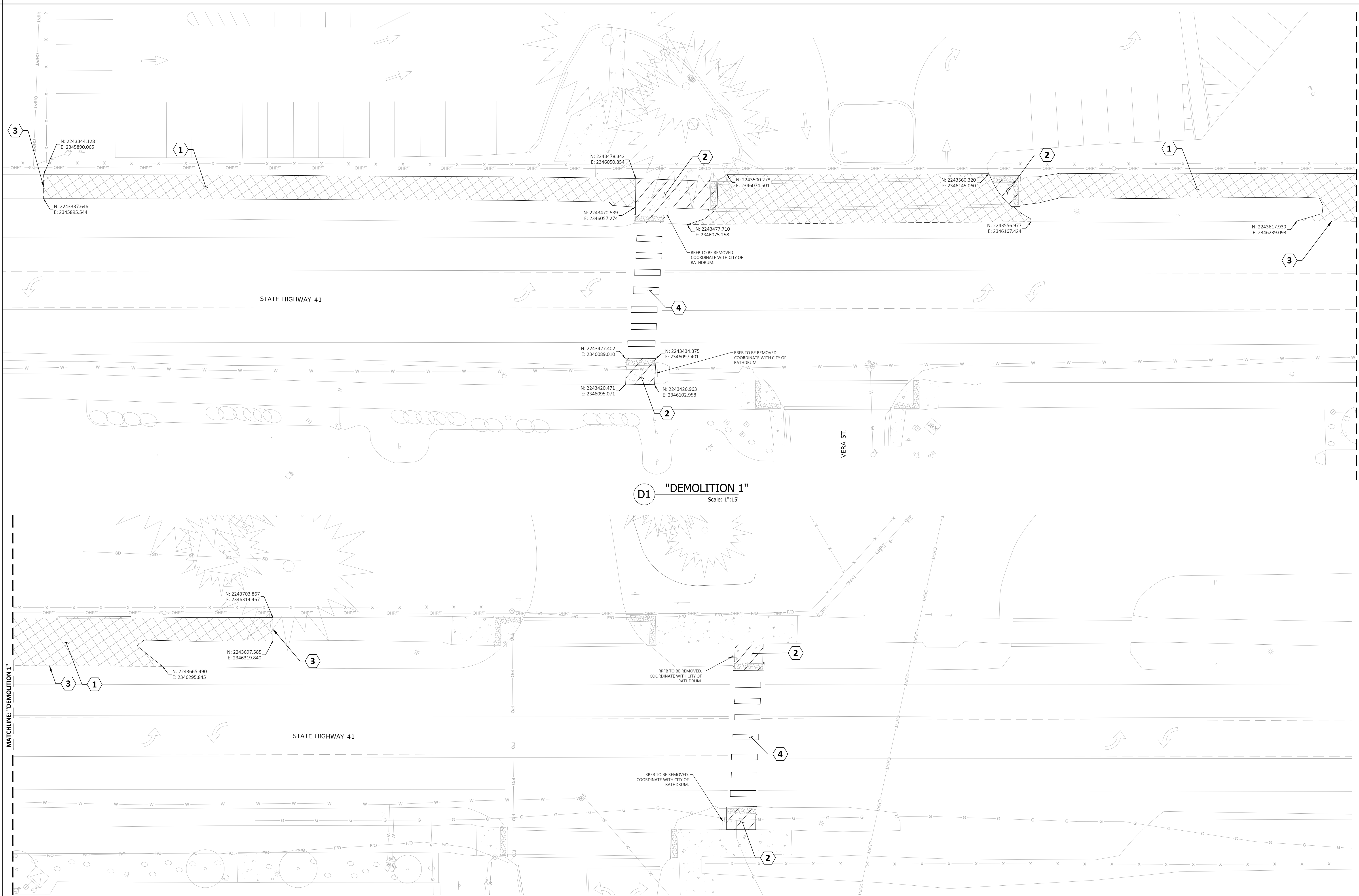


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LAKELAND JOINT SCHOOL DISTRICT 272
LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
 15601 ID-41, RATHDRUM, ID 83858
SIDEWALK DEMOLITION PLAN

PROJECT NO. 25028
 DESIGNED BY CS
 DRAWN BY FH
 ISSUE DATE 4/08/2026
 PHASE 100% DD
 CHECKED BY JS
 SHEET NO.

CD.100



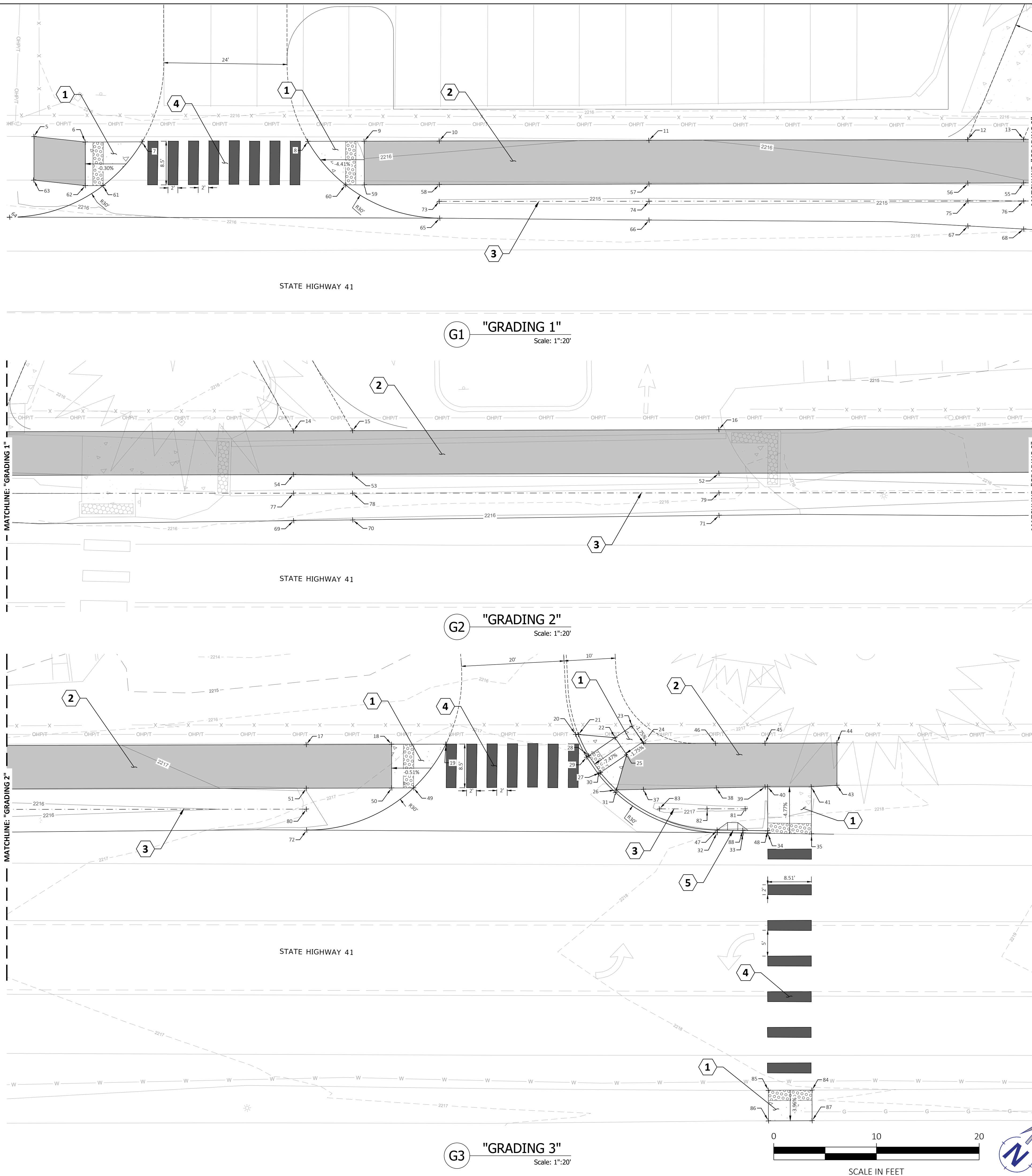
D1 "DEMOLITION 1"
 Scale: 1"=15'

D2 "DEMOLITION 2"
 Scale: 1"=15'

- DEMOLITION CONSTRUCTION NOTES:**
- 1** REMOVAL OF BITUMINOUS SURFACE
 - 2** REMOVAL OF CONCRETE SIDEWALK
 - 3** SAWCUT
 - 4** REMOVAL OF EXISTING PAVEMENT MARKINGS (SEE NOTE 1)

NOTES:
 1. PAVEMENT MARKINGS SHALL BE REMOVED FROM INDICATED AREAS BY METHODS ACCEPTABLE TO THE ENGINEER THAT CAUSE NEGLIGIBLE DAMAGE TO EXISTING PAVEMENTS, SURFACE TEXTURE, OR OTHER ROADWAY OR UTILITY APPURTENANCES. CONTRACTOR SHALL REMOVE PAVEMENT MARKINGS BY GRINDING, ABRASIVE BLASTING, OR HYDROBLASTING. THE USE OF CHEMICALS TO REMOVE PAVEMENT MARKINGS WILL NOT BE PERMITTED. APPLY A FOG COAT TO AREAS WHERE PAVEMENT MARKINGS HAVE BEEN REMOVED. SAND, WATER, RESIDUE, AND OTHER WASTE MATERIAL THAT MAY BE DEPOSITED ON THE PAVEMENT AS A RESULT OF REMOVAL OPERATIONS SHALL BE REMOVED AS THE WORK PROGRESSES. CONTRACTOR SHALL REPAIR DAMAGE TO ASPHALTIC SURFACES GREATER THAN 1/4" DEEP RESULTING FROM THE REMOVAL OF PAVEMENT MARKINGS.





GRADING CONSTRUCTION NOTES:

- 1 CONCRETE ADA RAMP (PER ITD STD. DRAWING 614-3)
- 2 HMA MIX USE PATHWAY (PER DETAIL G4)
- 3 DRAINAGE SWALE: MAX 3H:1V SIDE SLOPE (PER DETAIL G4)
- 4 TRAVERSE PAVEMENT MARKINGS - PREFORMED THERMOPLASTIC (PER CITY OF RATHDRUM STD. DRAWING 514)
- 5 DRAINAGE CURB CUT (PER CITY OF RATHDRUM STD. DRAWING D3)

NOTE: ALL WORK MUST COMPLY WITH THE IDAHO TRANSPORTATION DEPARTMENT 2023 STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

UTILITY STATEMENT

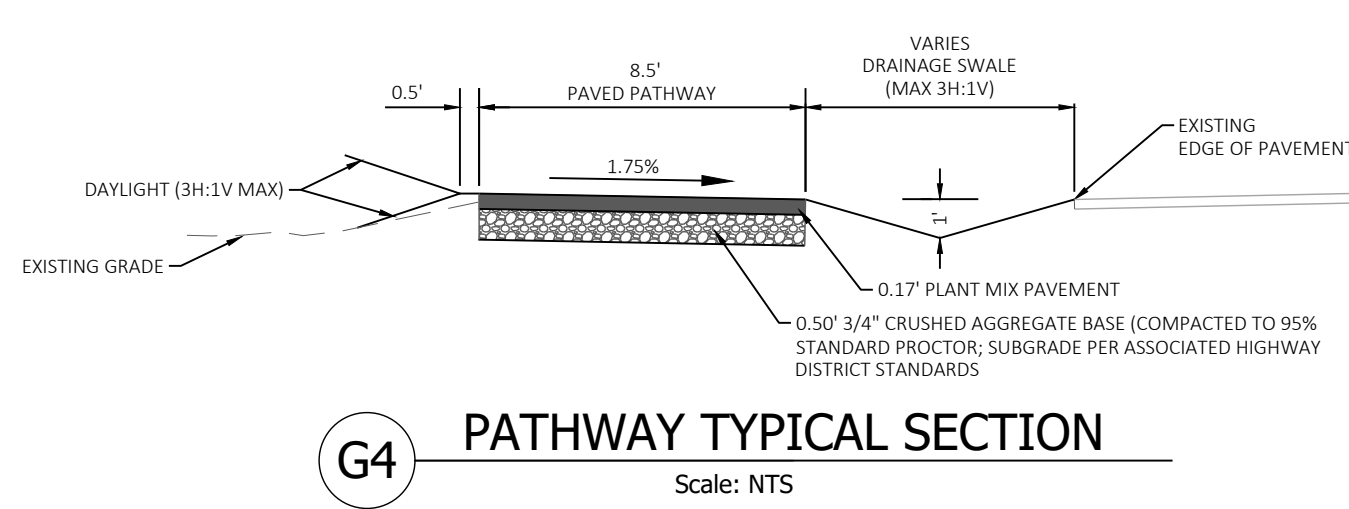
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN APPROXIMATELY ONLY PRIOR TO CONSTRUCTION USING ABOVE GROUND UTILITY LOCATES AND BY RESEARCHING EXISTING UTILITIES WITH THE PURVEYORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL UTILITY COMPANIES OF THE CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MAY OCCUR BY FAILURE TO EXACTLY LOCATE AND PROTECT ALL UTILITIES.

ABBREVIATIONS

- EOP EDGE OF PAVEMENT
- FL FLOW LINE
- TBC TOP BACK OF CURB
- TSW TOP OF SIDEWALK

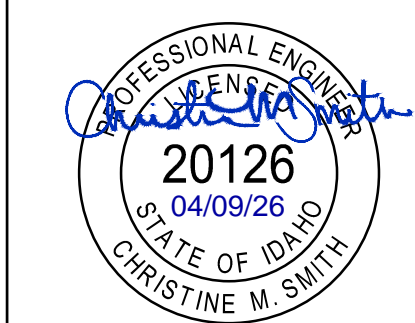
Point #	Elevation	Northing	Easting	Raw Description
69	2216.02	2243492.325	2346092.897	EOP
5	2215.75	2243344.132	2345890.062	EOP
70	2216.07	2243499.858	2346101.580	EOP
6	2215.78	2243349.756	2345898.383	TSW
7	2215.81	2243356.936	2345906.821	TSW
8	2215.58	2243377.842	2345931.390	TSW
9	2216.06	2243384.947	2345939.739	TSW
10	2216.04	2243394.424	2345950.876	EOP
11	2215.98	2243420.871	2345981.956	EOP
12	2216.10	2243461.099	2346029.231	EOP
13	2216.14	2243468.139	2346037.504	EOP
14	2216.17	2243505.637	2346081.570	EOP
15	2216.22	2243513.086	2346090.324	EOP
16	2216.35	2243559.311	2346144.646	EOP
17	2217.28	2243636.866	2346235.787	EOP
18	2217.37	2243647.635	2346248.442	TSW
19	2217.43	2243654.486	2346256.493	TSW
20	2217.00	2243672.269	2346274.526	EOP
21	2217.50	2243672.591	2346274.982	TBC
22	2217.71	2243676.711	2346280.813	TSW
23	2217.78	2243680.569	2346281.868	TSW
24	2217.71	2243679.514	2346285.726	TSW
25	2217.64	2243675.656	2346284.671	TSW
26	2217.60	2243669.142	2346287.594	TBC
27	2217.21	2243669.697	2346283.042	TBC
28	2217.21	2243670.752	2346279.183	TBC
29	2217.17	2243670.269	2346279.051	TSW
30	2217.21	2243669.216	2346282.910	TSW
31	2217.36	2243668.635	2346287.774	EOP
32	2218.01	2243675.457	2346307.947	EOP
33	2218.07	2243678.660	2346311.837	EOP
34	2218.13	2243681.718	2346315.550	TSW
35	2218.24	2243687.123	2346322.113	TSW
37	2217.60	2243672.633	2346291.558	EOP
38	2217.75	2243682.007	2346302.200	EOP
39	2217.75	2243688.274	2346309.315	TBC
40	2217.75	2243688.598	2346309.696	TSW
41	2217.75	2243694.107	2346316.170	TSW
43	2217.74	2243697.553	2346319.802	EOP
44	2217.74	2243703.867	2346314.467	EOP
45	2217.90	2243694.748	2346303.807	EOP
46	2217.90	2243688.507	2346296.473	EOP

Point #	Elevation	Northing	Easting	Raw Description
47	2218.51	2243675.843	2346307.629	TBC
48	2218.13	2243682.099	2346315.226	TBC
49	2217.34	2243643.923	2346257.196	TSW
50	2217.32	2243641.162	2346253.950	TSW
51	2217.13	2243630.393	2346241.295	EOP
52	2216.20	2243552.837	2346150.154	EOP
53	2216.07	2243506.613	2346095.833	EOP
54	2216.02	2243499.163	2346087.078	EOP
55	2215.99	2243461.666	2346043.013	EOP
56	2215.95	2243454.626	2346034.739	EOP
57	2215.83	2243414.398	2345987.465	EOP
58	2215.89	2243387.951	2345956.385	EOP
59	2215.91	2243378.474	2345945.248	TSW
60	2215.69	2243376.106	2345942.466	TSW
61	2215.92	2243345.524	2345906.527	TSW
62	2215.89	2243343.282	2345903.892	TSW
63	2215.80	2243337.616	2345895.504	EOP
64	2216.12	2243329.081	2345896.601	EOP
65	2215.89	2243383.009	2345960.655	EOP
66	2215.83	2243409.057	2345992.009	EOP
67	2215.95	2243448.272	2346040.146	EOP
68	2215.99	2243454.832	2346048.828	EOP
71	2216.20	2243546.600	2346155.462	EOP
72	2217.13	2243624.221	2346246.613	EOP
73	2215.89	2243385.447	2345958.482	FL
74	2215.83	2243411.844	2345989.638	FL
75	2215.95	2243451.970	2346037.000	FL
76	2215.99	2243458.992	2346045.288	FL
77	2216.02	2243496.394	2346089.435	FL
78	2216.07	2243503.824	2346098.205	FL
79	2216.20	2243549.932	2346152.627	FL
80	2217.13	2243627.290	2346243.934	FL
83	2216.74	2243671.720	2346296.376	FL
82	2216.85	2243677.720	2346303.458	FL
81	2216.91	2243682.520	2346309.124	FL
84	2217.83	2243649.092	2346354.433	TSW
85	2217.75	2243643.588	2346347.956	TSW
86	2217.52	2243639.052	2346351.810	TSW
87	2217.59	2243644.557	2346358.287	TSW
88	2218.07	2243679.047	2346311.463	TBC



- DRAINAGE SWALE SEEDING NOTES:**
- ENSURE DRAINAGE SWALE SUBGRADE SOILS ARE NOT COMPACTED.
 - SWALE TO BE SEEDED WITH TURF GRASS SEED MIX AND MULCH.
 - GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OR NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:
 - 40% CHIPSOT PERENNIAL RYE GRASS
 - 30% PARKLAND KENTUCKY BLUEGRASS
 - 15% SUPER BLUE KENTUCKY BLUEGRASS
 - 15% BARON KENTUCKY BLUEGRASS
 - PROVIDE SEED MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:
 - GRASS SEED: 7 LBS PER 1,000 FT²
 - FERTILIZER: 16 - 16 - 16 TIMED RELEASE COMPOSITION, 300 LBS PER ACRE
 - ALL SEED WORK IS TO BE COMPLETED PRIOR TO OCTOBER 1, OR A TEMPORARY MULCH SHALL BE PLACED OVER THE DENIDED SURFACE, AND THE SEEDING TO OCCUR THE FOLLOWING SPRING, AFTER APRIL 15.

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LAKELAND JOINT SCHOOL DISTRICT 272
LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
15601 ID-41, RATHDRUM, ID 83858
SIDEWALK LAYOUT & GRADING PLAN

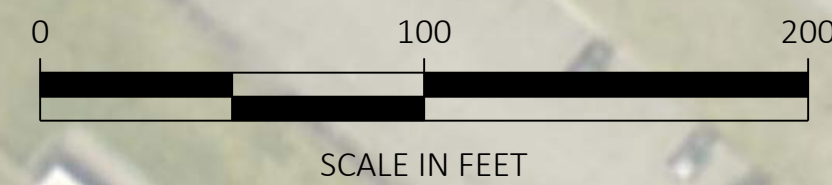
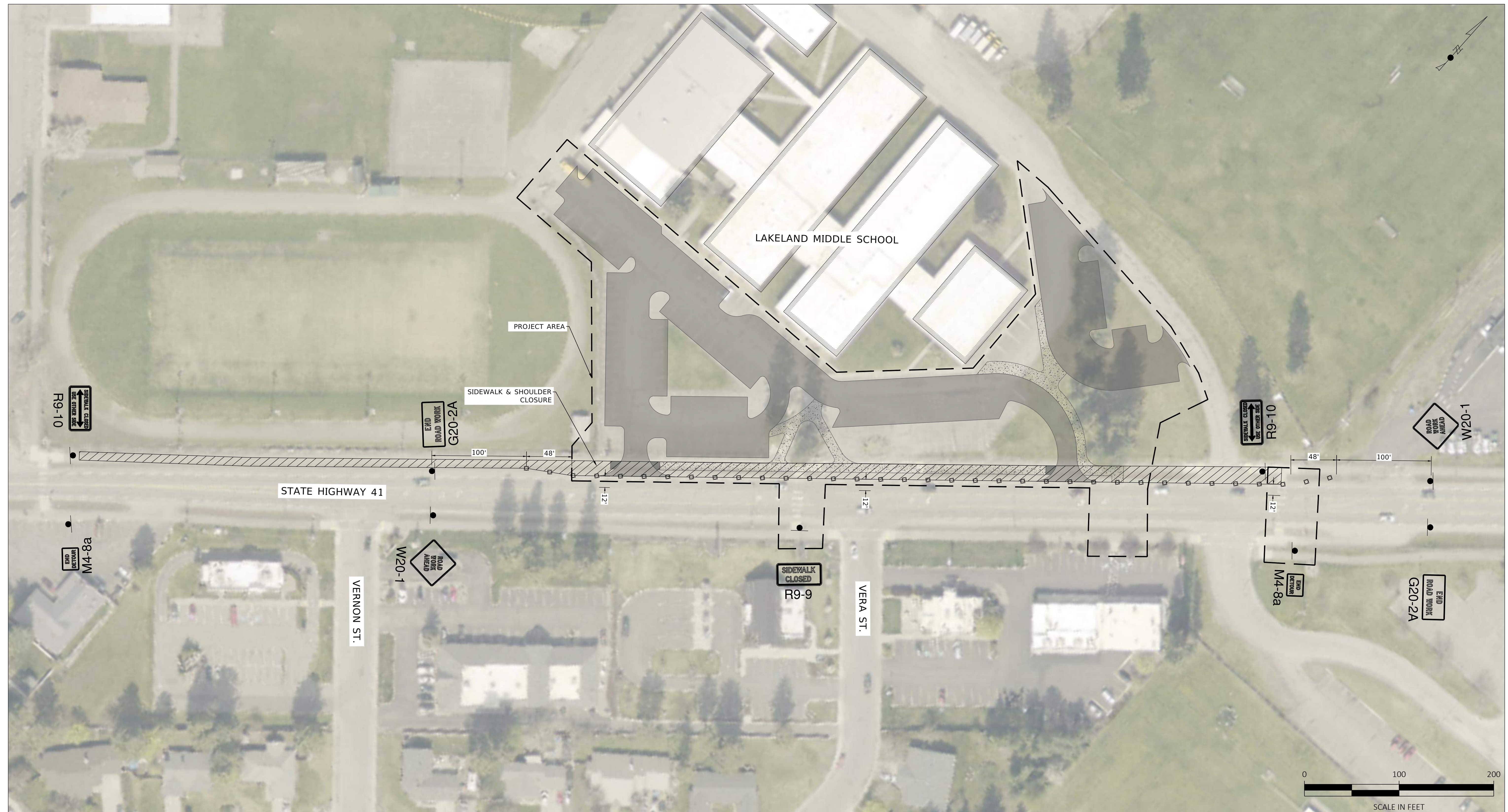
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DESIGNED BY CS
DRAWN BY FH
ISSUE DATE 4/08/2026
PHASE 100% DD
CHECKED BY JS
SHEET NO.

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GENERAL NOTES TRAFFIC CONTROL DEVICES

- A MINIMUM 10' LANE SHALL BE MAINTAINED AT ALL TIMES THROUGH THE WORK ZONE. FLAGGERS WILL BE USED ON APPROACHES WHEN VOLUMES REQUIRE IT OR AS DIRECTED BY THE ENGINEER. ALL FLAGGERS SHALL HAVE TWO-WAY RADIOS ON THE PROJECT.
- FABRICATION AND INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL CONFORM TO ALL APPLICABLE PROVISIONS OF THE FHWA'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AS ADOPTED BY THE STATE.
- MOUNTING CONFIGURATION, NUMBER OF SIGNS AND MINOR ADJUSTMENTS NEEDED FOR TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN IN THE TRAFFIC CONTROL PLANS, OR AS DIRECTED BY THE ENGINEER. THE OVERALL EFFECTIVENESS AND PLACEMENT OF THESE INSTALLATIONS SHALL BE CHECKED PERIODICALLY, UNDER BOTH NIGHT AND DAY CONDITIONS.
- SPACING FOR ALL CHANNELIZATION DEVICES SHOULD NOT EXCEED A DISTANCE EQUAL TO THE POSTED SPEED LIMIT WHEN USED FOR TAPER CHANNELIZATION AND A DISTANCE OF TWICE THE POSTED SPEED LIMIT WHEN USED FOR TANGENT CHANNELIZATION.
- ALL SIGNS SHALL BE MOUNTED IN A HIGH PROFILE MANNER WITH 2 STANDARD FLAGS (SEE THE MUTCD, PART 6 FIG. 6F-2). ALL SIGNS REMAINING UP FOR THE DURATION OF THE PROJECT SHOULD BE PLACED ON GROUND MOUNTED WOOD POSTS.
- ALL PORTABLE SIGN STANDS, FLAGS, TWO-WAY RADIOS, AND WARNING LIGHTS SHALL BE CONSIDERED AS INCIDENTAL ITEMS.
- ALL EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COVERED UP OR REMOVED. SIGNS REMOVED DURING CONSTRUCTION SHALL BE REPLACED PRIOR TO COMPLETION OF THE PROJECT. ANY SIGNS DAMAGED DURING REMOVAL OR STORAGE SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- IN THE WORK ZONE THE SPEED LIMIT SHALL BE POSTED THE SAME AS PRIOR TO THE CONSTRUCTION WHEN EXISTING SPEED LIMIT IS LESS THAN 45 MPH.
- SIGNS AND SIGN STANDS NOT IN USE SHALL BE REMOVED OUTSIDE THE HIGHWAY CLEARZONE.
- ALL CROSS STREETS AND PRIVATE DRIVERS SHALL REMAIN OPEN, ACCESSIBLE, AND MAINTAINED DURING CONSTRUCTION.

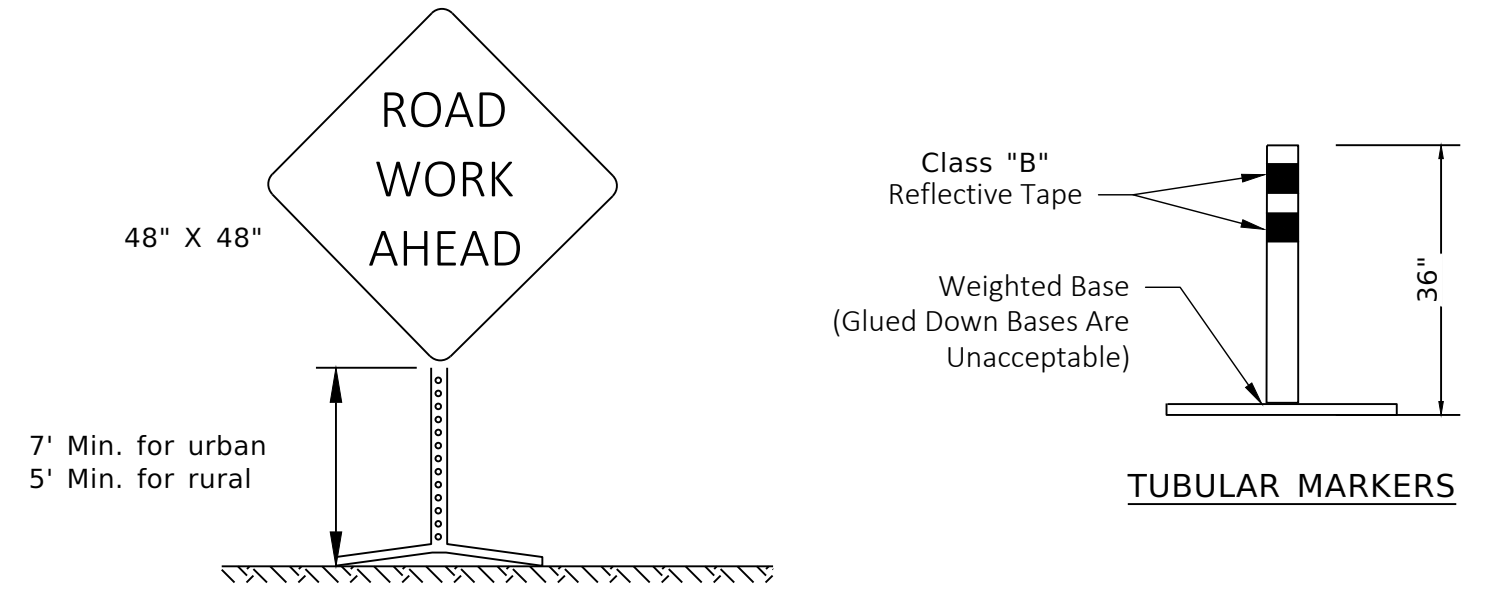
PROJECT TRAFFIC CONTROL SIGN SUMMARY						
SIGN NUMBERS	DESCRIPTION	SIZE (IN)	AREA (SF)	QUANTITY	TOTAL AREA	
G20-2A	END ROAD WORK	36 X 18	4.5	2	9	
M4-8A	END DETOUR	24 X 18	3	2	6	
R9-9	SIDEWALK CLOSED	24 X 12	2	1	2	
R9-10	SIDEWALK CLOSED, USE OTHER SIDE	24 X 12	2	2	4	
W20-1	ROAD WORK AHEAD	36 X 36	9	2	18	
ADDITIONAL SIGNS AS DIRECTED					0.0	
TOTAL SQ. FEET FOR CLASS "B" SIGNING					39	

ROAD TYPE	DISTANCE BETWEEN SIGNS			TAPER LENGTH (L) FEET (40 mph or Less)			TAPER LENGTH (L) FEET (45 mph or More)		
	A	B	C	L=WS ² /2S	L=WS	L=WS ² /2S	L=WS	L=WS ² /2S	L=WS
URBAN < 40	100'	100'	100'	W = WIDTH OF OFFSET IN FEET	W = WIDTH OF OFFSET IN FEET	W = WIDTH OF OFFSET IN FEET	W = WIDTH OF OFFSET IN FEET	S = POSTED SPEED	S = POSTED SPEED
URBAN > 40	350'	350'	350'						
RURAL	500'	500'	500'						
FREEWAY	1000'	1500'	2600'						

Buffer Spacing as a Function of Speed

Speed*	Distance
20 mph	115 feet
25 mph	155 feet
30 mph	200 feet
35 mph	250 feet
40 mph	305 feet
45 mph	360 feet
50 mph	425 feet
55 mph	495 feet
60 mph	570 feet
65 mph	645 feet
70 mph	730 feet
75 mph	820 feet

*Posted speed, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed.



LAKELAND JOINT SCHOOL DISTRICT 272
 LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
 15601 ID-41, RATHDRUM, ID 83858
TRAFFIC CONTROL PLAN

PROJECT NO. 25028
 DESIGNED BY CS
 DRAWN BY FH
 ISSUE DATE 4/08/2026
 PHASE 100% DD
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ELECTRICAL ABBREVIATIONS LEGEND

A, AMP	AMPERES	MAN	MANUAL
AC	ALTERNATING CURRENT	MAX	MAXIMUM
AC	AIR CONDITIONING	MC	MECHANICAL CONTRACTOR
AF	AMP FUSE	MCA	MINIMUM CIRCUIT AMPACITY
AFC	AVAILABLE FAULT CURRENT	MCC	MOTOR CONTROL CENTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MDP	MAIN DISTRIBUTION PANEL
AF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AFG	ABOVE FINISHED GRADE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
AHU	AIR HANDLING UNIT	MH	METAL HALIDE
AL	ALUMINUM	MIN	MINIMUM
AS	AMP SWITCH	MOC	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER SWITCH	MOS	MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
BAS	BUILDING AUTOMATION SYSTEM	N	NEUTRAL
BKR	BREAKER	NC	NORMALLY CLOSED
BOF	BOTTOM OF FIXTURE	NEC	NATIONAL ELECTRIC CODE
C	RACEWAY/CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER	NFD	NON-FUSED DISCONNECT
CCT	COLOR RENDERING TEMPERATURE	NIC	NIGHT LIGHT, UN-SWITCHED 24/7 OPERATION
CCTV	CLOSED CIRCUIT TELEVISION	NL	NOT IN CONTRACT
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	#	NUMBER
C.O.	RACEWAY/CONDUIT ONLY, WITH PULL STRING	OAE	OR APPROVED EQUAL
COD	CENTER OF DEVICE	OC	ON CENTER
CNTRL	CONTROL	OCPD	OVERCURRENT PROTECTIVE DEVICE
CU	COPPER	OH	OVERHEAD
(D)	EXISTING TO BE DEMOLISHED	P	POLE
DISC	DISCONNECT	PB	PUSHBUTTON
DIST	DISTRIBUTION	PC	PLUMBING CONTRACTOR
DPDT	DOUBLE POLE DOUBLE THROW	PH	PHASE
DWG	DRAWING	PNL	PANEL
EA	EACH	PVC	POLYVINYL CHLORIDE CONDUIT
EC	ELECTRICAL CONTRACTOR	PWR	POWER
EF	EXHAUST FAN	(R)	EXISTING TO REMAIN
ELEC	ELECTRIC	RCPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	RECEPT	RECEPTACLE
EQUIP	EQUIPMENT	RGS	RIGID GALVANIZED STEEL
EX, EXIST	EXISTING	RM	ROOM
FA	FIRE ALARM	RVNR	REDUCED VOLTAGE NON-REVERSING
FAA	FIRE ALARM ANNUNCIATOR	RVR	REDUCED VOLTAGE REVERSING
FACP	FIRE ALARM CONTROL PANEL	SP	SINGLE POLE TOGGLE SWITCH
FD	FUSED DISCONNECT	SPD	SURGE PROTECTIVE DEVICE (TVSS)
FLR	FLOOR	SPEC	SPECIFICATION
FO	FIBER OPTIC	SPST	SINGLE POLE SINGLE THROW
FSD	FIRE SMOKE DAMPER RELAY, CONTROLLED BY ASSOCIATED SMOKE DETECTOR AND CIRCUITED BACK TO FACP	SSPB	START-STOP PUSHBUTTON
		SW	SWITCH
FVNR	FULL VOLTAGE NON-REVERSING	SWBD	SWITCHBOARD
FVR	FULL VOLTAGE REVERSING	SWGR	SWITCHGEAR
GEC	GROUND ELECTRODE CONDUCTOR	TB	TELEPHONE BOARD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TC	TIME CLOCK
GFI	GROUND FAULT INTERRUPTER	TD	TIME DELAY
GFP	GROUND FAULT PROTECTION	TEL	TELEPHONE
GND	GROUND	TR	TAMPER RESISTANT
GRC	GALVANIZED RIGID CONDUIT	TSP	TWISTED SHIELDED PAIR
HID	HIGH INTENSITY DISCHARGE	TTB	TELEPHONE TERMINAL BOARD
HOA	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HP	HORSEPOWER	UG	UNDERGROUND
HPS	HIGH PRESSURE SODIUM	UH	UNIT HEATER
HTR	HEATER	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING, VENTILATION & AIR CONDITIONING	V	VOLT
HZ	HERTZ	VA	VOLT-AMPERES
J-BOX	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
KVA	KILOVOLT-AMPERES	W	WATTS
KW	KILOWATTS	WAO	WORK AREA OUTLET
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF
LPW	LUMENS PER WATT	WPI	WEATHERPROOF WHILE-IN-USE
LSI	LONG SHORT INSTANTANEOUS	WR	WEATHER RESISTANT
LSIG	LONG SHORT INSTANTANEOUS GROUND FAULT	W/O	WITHOUT
LTG	LIGHTING	Y	WYE-CONNECTED
LM	LUMENS	Δ	DELTA-CONNECTED
LV	LOW VOLTAGE	ø	PHASE
MAG	MAGNETIC STARTER		

ELECTRICAL ONE-LINE LEGEND

	CT AND CUSTOMER POWER METER		AUTOMATIC TRANSFER SWITCH
	MOTOR		VARIABLE FREQUENCY DRIVE
	UTILITY ELECTRIC METER AND BASE (BASE BY CUSTOMER)		FIXED MOUNT LV BREAKER
	SURGE PROTECTION DEVICE		FUSED SWITCH ("XXAS/XXAF" - SW AND FUSE AMP RATING)
	LIGHTNING ARRESTER, TYPE 1 SPD, MOUNTED ON EXTERIOR OF MAIN SWITCHGEAR (SQUARE D. SDSA SERIES, OAE)		GENERATOR
	STRESS RELIEF CONE		WALL MOUNTED BREAKER
	POWER FACTOR CORRECTION CAPACITOR		THERMAL OVERLOAD ELEMENT
	EQUIPMENT TOGGLE DISCONNECT SWITCH F - FUSTAT M - MOTOR STARTER SWITCH W/ THERMAL OVERLOADS		DISCONNECT SWITCH ("XXAS" = SWITCH AMP RATING)
	CONTACTOR NORMALLY OPEN, NORMALLY CLOSED		FUSED DISCONNECT SWITCH ("XXAS/XXAF" = SW AND FUSE AMP RATING)
	TRANSFORMER, 3-PH, 3-WIRE DELTA CONNECTION		COMBINATION MOTOR STARTER (STR SIZE, TYP, AS, AF, SEE MEP COORDINATION SCHEDULE)
	TRANSFORMER, 3-PH, 4-WIRE GROUNDED WYE CONNECTION		SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED

ELECTRICAL LIGHTING FIXTURE LEGEND

	RECESSED LED FIXTURE - "a" & "b" DESIGNATES SWITCH		EXIT SIGN - WALL MOUNT, CEILING MOUNT, ARROW INDICATES DIRECTION OF TRAVEL, SHADING INDICATES LIGHTED FACE.
	RECESSED EMERGENCY LED FIXTURE - "a" & "b" DESIGNATES SWITCH		COMBINATION EXIT SIGN/ EGRESS LIGHTING UNIT - WALL MOUNT, CEILING MOUNT. ARROW INDICATES DIRECTION OF TRAVEL, SHADING INDICATES LIGHTED FACE.
	SURFACE LED FIXTURE - "a" & "b" DESIGNATES SWITCH		DUAL HEAD EMERGENCY EGRESS BATTERY PACK, WALL MOUNT OR CEILING MOUNT
	SURFACE EMERGENCY LED FIXTURE - "a" & "b" DESIGNATES SWITCH		WALL MOUNTED SCONCE
	SURFACE WALL MOUNT LED FIXTURE		SURFACE DOWNLIGHT
	LED STRIP OR INDUSTRIAL, SURFACE OR CHAIN HUNG		SURFACE EMERGENCY DOWNLIGHT
	EMERGENCY LED STRIP OR INDUSTRIAL, SURFACE OR CHAIN HUNG		RECESSED CAN DOWNLIGHT
	POLE MOUNTED FIXTURE		RECESSED CAN EMERGENCY DOWNLIGHT
	LIGHTED BOLLARD		RECESSED CAN WALL WASHER
	PENDANT FIXTURE: HIGH BAY, LOW BAY, DECORATIVE		TRACK LIGHTING. SEE FIXTURE SCHEDULE AND LIGHTING PLANS.

ELECTRICAL LIGHTING CONTROL LEGEND

STANDARD LIGHTING CONTROLS: SWITCHES AND LINE VOLTAGE DIMMERS	DIGITAL LIGHTING CONTROLS: ROOM CONTROLLERS AND LOW VOLTAGE DEVICES
<p>TOGGLE SWITCH (MOUNT AT +48", UNO) "X" INDICATES TYPE: BLANK - SINGLE POLE 3 - INDICATES THREE-WAY 4 - INDICATES FOUR-WAY D - INDICATES DIMMER SWITCH PHILIPS SUNRISE - ON/OFF K - INDICATES KEYED SWITCH T - INDICATES TIMER P - INDICATES PILOT LIGHT OS - INDICATES WALL SWITCH OCC SENSOR WATTSTOPPER DSW-301 (SINGLE OR DUAL DSW-302 SWITCH) OSD - INDICATES WALL SWITCH OCC SENSOR WITH 0-10V DIMMING - WATTSTOPPER DW-311 a - SINGLE POLE LIGHTING SWITCH ZONE 'a' b - SINGLE POLE LIGHTING SWITCH ZONE 'b' ab - INDICATES LIGHTING SWITCHES WITH MULTIPLE ZONES</p>	<p>OCCUPANCY SENSOR - DUAL TECHNOLOGY CEILING MOUNT: WATTSTOPPER LMDC-100, OR EQUAL WALL MOUNT: WATTSTOPPER LMDC-100, OR EQUAL WALL MOUNT AT +96", UNO</p> <p>PHOTOCELL - CEILING MOUNT WATTSTOPPER LMLS-400, OR EQUAL</p> <p>ON/OFF ROOM CONTROLLER WITH (1) RELAY WATTSTOPPER DLM LMRC-101, OR EQUAL</p> <p>ON/OFF ROOM CONTROLLER WITH (2) RELAYS WATTSTOPPER DLM LMRC-102, OR EQUAL</p> <p>ON/OFF/0-10V ROOM CONTROLLER WITH (2) RELAYS WATTSTOPPER DLM LMRC-212, OR EQUAL</p> <p>ON/OFF/0-10V ROOM CONTROLLER WITH (3) RELAYS WATTSTOPPER DLM LMRC-213, OR EQUAL</p> <p>LOW VOLTAGE DIMMING SWITCH WATTSTOPPER DLM LMSM-211, OR EQUAL</p> <p>LOW VOLTAGE SWITCH, # INDICATES NUMBER OF BUTTONS. NO "#" IS A 2 BUTTON SWITCH. WATTSTOPPER DLM LMSW-2#0, OR EQUAL</p>

ABBREVIATIONS AND SYMBOLS GENERAL NOTES

A. THE ABBREVIATIONS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL ABBREVIATIONS APPEAR ON THIS PROJECT.
B. THE SYMBOLS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL SYMBOLS APPEAR ON THIS PROJECT.
C. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS, MAKING ADJUSTMENTS AS REQUIRED TO AVOID INTERFERENCE WITH EQUIPMENT SUCH AS BASEBOARD FIN-TUBE, CABINET UNIT HEATERS, ETC. ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ALL SUCH HEIGHT ADJUSTMENTS. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED.

ELECTRICAL PROJECT GENERAL NOTES

A. PRIOR TO BID CONTRACTOR SHALL VISIT THE SITE. NOT ALL WORK REQUIRED TO COMPLETE THE PROJECT IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL THE WORK REQUIRED TO COMPLETE THE PROJECT IN ADDITION TO THE LOCAL CONDITIONS AND INCLUDE SAID WORK IN THE BID.
B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL ELECTRICAL SERVICE WORK WITH UTILITY. OWNER PAYS ALL FEES. CONTRACTOR DOES ALL SCHEDULING AND COORDINATION OF WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL SCHEDULES ARE MET.
C. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1, "STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING." THIS PUBLICATION IS AVAILABLE FROM NECA BY TELEPHONE AT 301-657-3110 OR ON-LINE AT WWW.NECANET.ORG.
D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH MECHANICAL FOR PLENUM SPACES AND PROVIDE PLENUM RATED CABLES WHERE REQUIRED FOR LIGHTING CONTROL, DATA, FIRE ALARM AND ALL OTHER LV. SYSTEMS NOT INSTALLED IN CONDUIT. VERIFY CONDUIT REQUIREMENTS ON DRAWINGS AND SPECIFICATIONS.
E. FIRE-RESISTANCE: PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 24" BETWEEN OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RESISTANCE RATED WALLS. WHERE THIS IS NOT POSSIBLE INSTALL UL LISTED PUTTY PADS ON ALL OUTLET BOXES NOT MEETING THE 24" SEPARATION. PROVIDE A UL LISTED THROUGH-PENETRATION FIRESTOP FOR PENETRATIONS OF FIRE-RESISTANCE RATED ASSEMBLIES.
F. CONDUCTORS ARE SIZED PER THE 75 DEGREE C RATING COLUMN OF NEC TABLE 310.16. IF THE TERMINAL USED FOR A TERMINATION OF A PARTICULAR CONDUCTOR IS NOT MARKED, OR THE TERMINAL IS MARKED FOR 60 DEGREE C CONDUCTORS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EITHER ADJUST THE AMPACITY OF THE CONDUCTOR TO MATCH THE 60 DEGREE COLUMN OF TABLE 310.16, OR REPLACE THE TERMINAL WITH ONE RATED FOR AT LEAST 75 DEGREES C.
G. BASED ON ACTUAL HOMERUN LENGTHS REQUIRED IN THE FIELD, THE CONTRACTOR SHALL CALCULATE AND INCREASE THE WIRE SIZES AS REQUIRED TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3%. FOR 20A BRANCH CIRCUITS THE MINIMUM CONDUCTOR SIZES SHALL BE AS FOLLOWS: #10 AWG CU FOR RUNS BETWEEN 100 AND 200 LINEAR FEET, #8 AWG CU FOR RUNS BETWEEN 200 AND 325 LINEAR FEET, AND AS CALCULATED BY THE CONTRACTOR FOR CIRCUITS EXTENDING BEYOND 325 LINEAR FEET. IN ALL CASES WHERE WIRE SIZES INCREASE, THE CONTRACTOR SHALL PROVIDE LARGER CONDUITS AS REQUIRED.
H. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.
I. PROVIDE ADDITIONAL CONDUCTOR FOR UNSWITCHED 'HOT' TO LUMINAIRES WITH EMERGENCY POWER BATTERIES. PROVIDE AN ADDITIONAL UNSWITCHED 'HOT'; AND AN ADDITIONAL SWITCHED CONDUCTOR TO UL924 CONTROL MODULES OR GENERATOR TRANSFER DEVICES.
J. WIRING FOR EMERGENCY LIGHTING CIRCUITS OR OTHER EMERGENCY EQUIPMENT SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING AND SHALL MEET REQUIREMENTS OF NEC 700.10.
K. WHERE EQUIPMENT PART NUMBERS ARE SHOWN ON THESE PLANS THEY SHALL SUPERCEDE THE REQUIREMENTS OF THE SPECIFICATIONS.
L. PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL CONVENIENCE POWER AND LIGHTING BRANCH CIRCUITS.
M. ALL CONDUCTORS SIZED #10 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #12 AND SMALLER SHALL BE SOLID.
N. ALL 120V DUPLEX AND QUAD RECEPTACLES SHALL BE 20A RATED AND TAMPER-RESISTANT TYPE.

ELECTRICAL PROJECT DEMO NOTES

A. DURING DEMOLITION, THE CONTRACTOR SHALL NOTE ALL EXISTING RACEWAY (BOTH SURFACE AND CONCEALED) TO THE EXTENT POSSIBLE. THESE RACEWAYS SHALL BE REUSED TO THE GREATEST EXTENT POSSIBLE TO INSURE A CLEAN FINISHED PRODUCT. WHERE PRACTICAL, AND ALLOWED PER CODE, FISHING THROUGH WALLS WITH MC CABLE IS PREFERRED TO SURFACE-MOUNTED CONDUIT.
B. CONTRACTOR SHALL REMOVE, TRANSPORT, AND LEGALLY DISPOSE OF LAMPS AND BALLASTS OFF-SITE. IT IS ASSUMED THAT THE BALLASTS DO NOT CONTAIN PCBs. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY IF IT IS SUSPECTED THAT BALLASTS CONTAIN PCBs.
C. ALL POWER INTERRUPTIONS SHALL BE COORDINATED WITH OWNER. ANY DISRUPTION OF WORKERS IN THE SPACE SHALL BE KEPT TO A MINIMUM AND BE COORDINATED WITH THE OWNER PRIOR TO WORK COMMENCING IN THAT SPACE.
D. CONTRACTOR SHALL EXTEND UNSWITCHED HOT LEG FROM EXISTING EMERGENCY FIXTURE LOCATION TO NEW EMERGENCY FIXTURES, AS NEEDED. SEE DEMO PLANS FOR AN APPROXIMATION OF EXISTING EMERGENCY FIXTURE LOCATIONS. FIELD VERIFY EXACT LOCATION PRIOR TO BID.
E. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY EXISTING CONDUIT OR FEEDER CIRCUITS THAT ARE INTENDED TO REMAIN THAT ARE SAW-CUT, OR OTHERWISE DAMAGED, AS PART OF THE DEMOLITION PROCESS. PROVISION FOR THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: ALL NECESSARY CONDUIT AND CONDUCTORS, MOUNTING ACCESSORIES AND LABOR, TO RESTORE THE SYSTEM TO ITS INTENDED FUNCTION.
F. ELECTRICAL DRAWINGS SHOWING EXISTING BUILDING CONDITIONS, SUCH AS DEMOLITION DRAWINGS, EXISTING PANEL SCHEDULES, ETC ARE BASED ON RECORD DRAWINGS AND SITE VISITS. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, PLEASE NOTIFY ENGINEER.

ELECTRICAL SHEET INDEX

NUMBER	SHEET NAME
E0.01	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.02	ELECTRICAL SHEET SPECIFICATIONS
E0.03	ELECTRICAL SHEET SPECIFICATIONS
E0.05	ELECTRICAL SCHEDULES AND DETAILS
E0.04	ONE-LINE DIAGRAM
E1.00	ELECTRICAL SITE PLAN
E1.01PH	SITE PHOTOMETRIC PLAN

LAKELAND JOINT SCHOOL DISTRICT 272
LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
15601 ID-41, RATHDRUM, ID 83858
ELECTRICAL SYMBOLS AND ABBREVIATIONS

PROJECT NO.	25028
DESIGNED BY	MWM
DRAWN BY	MWM
ISSUE DATE	4/10/2026
PHASE	100% CD
CHECKED BY	HDP
SHEET NO.	

E0.01

26010 - GENERAL REQUIREMENTS OF ELECTRICAL

A. SUMMARY

- 1. THE REQUIREMENTS LISTED IN THIS SECTION ARE SUPPLEMENTAL TO THE DIVISION 01 GENERAL REQUIREMENTS.
2. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL AND LOW-VOLTAGE CONTRACTORS TO EXAMINE AND REFER TO ALL ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING AND LANDSCAPE DRAWINGS AND SPECIFICATIONS...
3. ELECTRICAL COMMUNICATIONS, ELECTRONIC SAFETY AND SECURITY WORK FOR THIS PROJECT SHALL INCLUDE ALL ITEMS, ARTICLES, MATERIALS AND THE ASSOCIATED LABOR MENTIONED, SCHEDULES OR SHOWN IN THESE SPECIFICATIONS AND IN THE ACCOMPANYING DRAWINGS.
4. FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS AND ANY REQUIRED INCIDENTAL ITEMS REQUIRED BY GOOD PRACTICE TO COMPLETE THE SYSTEMS DESCRIBED HEREIN.
5. REFER TO DIVISION 01 FOR ALL LISTED ALTERNATES AND PROVIDE SEPARATE PRICING AND WORK AS INDICATED IN DIVISION 01 AND CONTRACT DOCUMENTS.
6. DEFINITIONS - THROUGHOUT CONTRACT DOCUMENTS THESE WORDS AND PHRASES ARE USED:
1. CONTRACT DOCUMENTS - ALL DRAWINGS, SPECIFICATIONS, ADDENDA AND CHANGE ORDERS THAT DOCUMENT WORK TO BE DONE.
2. DEMOLITION - CAREFULLY DISCONNECT AND REMOVE ITEMS. ALL REASONABLE CAUTION SHALL BE TAKEN TO AVOID DAMAGING REMOVED EQUIPMENT AND TO MAINTAIN ITS OPERATIONAL FUNCTION.
3. REMOVE BACK TO SOURCE - REMOVE ALL CONDUIT AND WIRE BACK TO PANELBOARD OR LAST LIVE DEVICE.
4. EQUIVALENT OR EQUAL - PRODUCT OF LIKE TYPE AND FUNCTION THAT COMPLIES WITH ALL APPLICABLE PROVISIONS OF DRAWINGS AND SPECIFICATIONS AND WHICH IS APPROVED AS SUBJECT TO THE SPECIFIED ITEM.
5. FURNISH - PURCHASE MATERIAL AS SHOWN AND SPECIFIED, AND PLACE MATERIAL TO APPROVED LOCATION ON SITE OR ELSEWHERE AS NOTED OR AGREED UPON.
6. INSTALL - SET IN PLACE AND CONNECT, READY FOR USE AND IN COMPLETE AND PROPERLY OPERATING FINISHED CONDITION.
7. PROVIDE - FURNISH AND INSTALL WITH ALL PRODUCTS, LABOR, SUB-CONTRACTS, AND APPURTENANCES REQUIRED FOR A COMPLETE AND PROPERLY OPERATING, FINISHED CONDITION.
8. ROUGH-IN - PROVIDE CONDUIT RACEWAY SYSTEM WITH JUNCTION BOXES, FITTINGS, STRAPS, BUSHINGS, ETC., FOR FUTURE INSTALLATION OF WIRING, DEVICES, DISCONNECTS AND BREAKERS. PROVISION SHALL BE MADE IN PANELBOARD (HARDWARE, ETC.) FOR FUTURE INSTALLATION OF BREAKERS.
9. SERVICEABLE - ARRANGED SO THAT COMPONENT OR PRODUCT IN QUESTION MAY BE PROPERLY REMOVED AND REPLACED WITHOUT DISASSEMBLY, DESTRUCTION OR DAMAGE TO SURROUNDING INSTALLATION.
10. STANDARD - REFER TO STANDARDS INFERS THAT INSTALLATION, EQUIPMENT AND MATERIAL SHALL BE WITHIN LIMITS FOR WHICH IT WAS DESIGNED, TESTED AND APPROVED, IN CONFORMANCE WITH CURRENT PUBLICATIONS AND STANDARDS OF FOLLOWING ORGANIZATIONS:
a. AMERICAN NATIONAL STANDARDS INSTITUTE - ANSI
b. AMERICAN SOCIETY FOR TESTING AND MATERIALS - ASTM
c. AMERICAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS - ASHRAE (STANDARD 90-75)
d. INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS - IEEE
e. INSULATED CABLE ENGINEERS ASSOCIATION - ICEA
f. NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION - NECA
g. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION - NEMA
h. NATIONAL FIRE PROTECTION ASSOCIATION - NFPA
i. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION - OSHA
j. UNDERWRITERS' LABORATORIES, INC. - UL
k. RULES AND REGULATIONS OF THE STATE/LOCAL FIRE MARSHAL
l. STANDARDS AND REQUIREMENT OF THE SERVING UTILITIES
m. STATE AND LOCAL ORDINANCES
3. REGULATIONS - DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND GUIDELINES NOTED BELOW. CONTRACTOR SHALL CAREFULLY REVIEW SPECIFICATIONS AND BRING ANY DISCREPANCIES TO IMMEDIATE ATTENTION OF ARCHITECT/ENGINEER.
a. AMERICANS WITH DISABILITIES ACT - ADA
D. FEES AND PERMITS
1. ELECTRICAL CONTRACTOR SHALL PAY FOR ALL PERMITS OR FEES IN CONNECTION WITH ELECTRICAL WORK. FEES SHALL INCLUDE ANY OR ALL USER FEES, GOVERNMENT FEES, SYSTEM FEES, CONNECTION FEES OR OTHER FEES THAT ARE REQUIRED TO BE PAID BEFORE SYSTEMS CAN BE CONNECTED OR USED.
2. SCHEDULE ALL REQUIRED ELECTRICAL INSPECTIONS WITH LOCAL ELECTRICAL INSPECTOR. NOTIFY ENGINEER OF ALL ITEMS OF DISCREPANCY NOTED BY ELECTRICAL INSPECTOR OR THOSE ITEMS THAT AFFECT THE FUNCTION OF SYSTEM, OR IF THEY CONFLICT WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.
3. ALL UTILITY COST AND FEES FROM THE UTILITY WORK SHALL BE THE RESPONSIBILITY OF THE OWNER. CONTRACTOR TO COORDINATE ALL UTILITY REQUIREMENTS, STANDARDS AND REGULATIONS WITH SERVING UTILITY FOR A COMPLETE SCOPE OF WORK PRIOR TO BID.
4. DELIVER ALL INSPECTION CERTIFICATES TO ARCHITECT/ENGINEER PRIOR TO FINAL ACCEPTANCE OF WORK.
E. INTENT OF SPECIFICATIONS AND DRAWINGS
1. PLANS AND SPECIFICATIONS ARE INTENDED TO RESULT IN COMPLETE ELECTRICAL INSTALLATION IN FULL COMPLIANCE WITH ALL APPLICABLE CODES, STANDARDS AND ORDINANCES.
2. PLANS AND SPECIFICATIONS ARE TO SUPPLEMENT EACH OTHER AND ANY DETAILS CONTAINED IN ONE SHALL BE INCLUDED AS IF CONTAINED IN BOTH.
3. ELECTRICAL DRAWINGS SHALL DERIVE AS REQUIRED FROM ELECTRICAL ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE IF ANY DIMENSIONAL DISCREPANCIES EXIST.
4. DRAWINGS ARE PARTLY DIAGRAMMATIC AND DO NOT SHOW ROUTING OF CONDUITS, EXACT LOCATION OF PRODUCTS, OR INSTALLATION FEATURES IN EXACT DETAIL. LOCATIONS OF DEVICES, FIXTURES AND EQUIPMENT ARE APPROXIMATE UNLESS DIMENSIONED.
5. RISER DIAGRAMS AND CONTROL SCHEMATICS ARE NOT TO SCALE AND DO NOT SHOW PHYSICAL ARRANGEMENT OF EQUIPMENT. DO NOT USE RISER DIAGRAMS OR SCHEMATICS TO OBTAIN LINEAL CONDUIT AND CABLING DIRECTIONS.
6. ITEMS ARE SHOWN IN LOCATIONS INTENDED TO MINIMIZE INTERFERENCE WITH OTHER EQUIPMENT, STRUCTURAL MEMBERS, ETC. EXACT FINISH LOCATIONS ARE NOT INDICATED, HOWEVER, AND ALL WORK SHALL BE DONE TO AVOID INTERFERENCE, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGeways CLEAR.
7. IN EVENT THAT DISCREPANCIES OF ANY KIND EXIST OR REQUIRED ITEMS/DETAILS HAVE BEEN OMITTED, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IN WRITING OF SUCH DISCREPANCY OR OMISSION AT LEAST TEN DAYS PRIOR TO BID DATE. FAILURE TO DO SO SHALL BE CONSTRUED AS WILLINGNESS OF CONTRACTOR TO SUPPLY ALL NECESSARY MATERIALS AND LABOR REQUIRED FOR PROPER COMPLETION OF WORK.
F. CONTRACTOR'S RESPONSIBILITY - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF COMPLETE AND FUNCTIONAL PIECE OF WORK IN ACCORDANCE WITH TRUE INTENT OF CONTRACT DOCUMENTS. PROVIDE ALL INCIDENTAL ITEMS REQUIRED FOR COMPLETE INSTALLATION AND SATISFACTORY OPERATION OF ALL EQUIPMENT, WHETHER OR NOT SPECIFICALLY NOTED IN CONTRACT DOCUMENTS.
1. QUALIFICATIONS
a. CONTRACTOR SHALL EMPLOY ON THIS PROJECT, CAPABLE, EXPERIENCED AND RELIABLE FOREMAN AND SUCH SKILLED WORKMEN AS MAY BE REQUIRED FOR VARIOUS CLASSES OF WORK TO BE PERFORMED.
b. WHERE SPECIAL SKILLS AND CERTIFICATION ARE REQUIRED, CONTRACTOR SHALL ENSURE THAT WORK IS PERFORMED BY INDIVIDUALS WITH REQUIRED EXPERIENCE, SKILL AND CERTIFICATION.
c. IF, IN ENGINEER'S OPINION, CONTRACTOR'S EMPLOYEES DO NOT POSSESS NECESSARY QUALIFICATIONS TO PERFORM SPECIALTY WORK, CONTRACTOR WILL BE REQUIRED TO OBTAIN SERVICES OF WORKMEN WHO ARE APPROVED BY MANUFACTURER AND CERTIFIED BY A CAPABLE ELECTRICIAN. IF SUCH WORKMEN, IF REQUIRED, SHALL BE PROVIDED AT NO ADDITIONAL EXPENSE.
d. REFER TO OTHER SPECIFICATION SECTIONS FOR ADDITIONAL REQUIRED CONTRACTOR QUALIFICATIONS AND CERTIFICATION.

- 2. LICENSING AND CERTIFICATION - ALL DIVISION 26 WORK SHALL BE ACCOMPLISHED BY ELECTRICIANS, LICENSED BY STATE IN WHICH WORK IS BEING DONE, CERTIFIED AS REQUIRED, AND SKILLED IN THEIR CRAFT. ELECTRICIAN MAY ELECT TO HIRE SUBCONTRACTORS FOR PORTIONS OF WORK (SUCH AS SYSTEMS DESCRIBED IN DIVISIONS 27 AND 28) WHO ARE NOT LICENSED ELECTRICIANS, BUT HAVE REQUIRED CERTIFICATES AND ARE LICENSED IN THEIR RESPECTIVE STATE IN WHICH WORK IS BEING DONE.
3. COORDINATION
a. CONTRACTOR SHALL CONSULT ALL CONTRACT DOCUMENTS, SHOP DRAWINGS OF OTHER TRADES, AND ACTUAL BUILDING DIMENSIONS TO PREDETERMINE THAT HIS WORK AND EQUIPMENT WILL FIT AS PLANNED. DO NOT SCALE DRAWINGS FOR FABRICATION. NO EXTRA PAYMENT WILL BE ISSUED FOR MATERIALS OR ITEMS WHICH DO NOT FIT BECAUSE OF CONTRACTOR'S FAILURE TO VERIFY AS-BUILT BUILDING DIMENSIONS.
b. CONTRACTOR SHALL CHECK LOCATION OF FIXTURES, OUTLETS, EQUIPMENT, CONDUIT, ETC., TO DETERMINE THEY CLEAR ALL OPENINGS, STRUCTURAL MEMBERS, PIPING, DUCTS AND MISCELLANEOUS EQUIPMENT HAVING FIXED LOCATIONS.
c. CHANGES IN LOCATION OF ELECTRICAL WORK, NECESSARY DUE TO OBSTACLES OR INSTALLATION OF OTHER TRADES SHOWN ON CONTRACT DOCUMENTS, SHALL BE MADE BY ELECTRICAL CONTRACTOR AT NO EXTRA COST.
d. CONTRACTOR SHALL COORDINATE WITH PLUMBING AND MECHANICAL CONTRACTORS TO AVOID INSTALLATION OF PIPING AND DUCTWORK ABOVE OR BELOW PANELBOARDS IN VIOLATION OF NATIONAL ELECTRICAL CODE.
e. LAY OUT ALL WORK IN ADVANCE AND AVOID CONFLICT WITH OTHER WORK IN PROGRESS. PHYSICAL DIMENSIONS SHALL BE OBTAINED FROM ARCHITECTURAL AND STRUCTURAL PLANS. VERIFY LOCATIONS FOR JUNCTION BOXES, DISCONNECT SWITCHES, STUB-UPS, ETC., FOR CONNECTION TO EQUIPMENT FURNISHED BY OTHERS, OR IN OTHER DIVISIONS OF THIS WORK.
f. CONTRACTOR SHALL COORDINATE AND PLAN WORK TO PROCEED WITH WORK OF OTHER TRADES.
g. CONTRACTOR SHALL INFORM GENERAL CONTRACTOR OF ALL REQUIRED OPENINGS IN BUILDING STRUCTURE FOR INSTALLATION OF ELECTRICAL EQUIPMENT.
h. CONTRACTOR SHALL CHECK DIMENSIONS OF ALL ELECTRICAL EQUIPMENT INSTALLED, PROVIDED BY HIMSELF OR BY OTHERS, SO CORRECT CLEARANCES AND CONNECTIONS CAN BE MADE.
i. CONSULTING ALL CONTRACT DOCUMENTS AND SHOP DRAWINGS OF OTHER TRADES, CONTRACTOR SHALL DETERMINE WHERE ELECTRICAL JUNCTION-FULL BOXES AND EQUIPMENT CAN BE INSTALLED TO MAINTAIN PROPER ACCESSIBILITY. WHERE ACCESSIBILITY CANNOT BE MAINTAINED BY JUDICIOUS PLACEMENT OF BOXES, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE, FABRICATE, INSTALL, ADJUST, PAINT, ETC. ACCESS DOORS THROUGH NON-ACCESSIBLE FLOOR, WALL, AND CEILING FINISHES TO ALLOW ACCESS TO ALL ELECTRICAL JUNCTION BOXES, ELECTRICAL DEVICES, ELECTRICAL EQUIPMENT, ETC. AT ALL REQUIRED LOCATIONS WHETHER SHOWN OR NOT SHOWN ON PLANS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DETERMINING SIZE AND LOCATION OF THE ACCESS DOORS. REPORT ANY CONFLICTS TO ARCHITECT/ENGINEER.
G. REVIEW - MATERIAL IS SUBJECT TO REVIEW AT ANY TIME BY THE ARCHITECT/ENGINEER OR HIS REPRESENTATIVE. IF THE ARCHITECT/ENGINEER OR HIS REPRESENTATIVE FINDS MATERIAL THAT DOES NOT CONFORM TO THESE SPECIFICATIONS OR THAT IS NOT PROPERLY INSTALLED OR FINISHED, CORRECT THE DEFICIENCIES IN A MANNER SATISFACTORY TO THE ARCHITECT/ENGINEER AT THE CONTRACTOR'S EXPENSE.
H. TEMPORARY FACILITIES
1. ELECTRICAL UTILITIES
a. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL POWER TO THE CONSTRUCTION SITE AS DIRECTED BY THE GENERAL CONTRACTOR. NO CONNECTIONS TO THE OWNER'S SYSTEM SHALL BE ALLOWED WITHOUT OWNER'S WRITTEN APPROVAL. PROVIDE A SEPARATE UTILITY SERVICE AS REQUIRED.
b. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL POWER TO JOB TRAILERS AS DIRECTED BY THE GENERAL CONTRACTOR.
c. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY COMMUNICATIONS TO JOB TRAILERS AS DIRECTED BY THE GENERAL CONTRACTOR.
d. ALL COSTS ASSOCIATED WITH TEMPORARY POWER, COMMUNICATIONS AND UTILITY COST SHALL BE PAID BY TO THE GENERAL CONTRACTOR.
e. THE ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION LIGHTING AS DIRECTED BY THE GENERAL CONTRACTOR TO PROVIDE A SAFE WORKING ENVIRONMENT.
f. ALL TEMPORARY SERVICES ARE TO BE REMOVED IN THEIR ENTIRETY PRIOR TO OCCUPANCY AS DIRECTED BY THE GENERAL CONTRACTOR.
2. OFFICES
a. THE ELECTRICAL CONTRACTOR MUST HAVE THE PERMISSION OF THE OWNER AND GENERAL CONTRACTOR OR CONSTRUCTION MANAGER TO INSTALL A TEMPORARY OFFICE/JOB TRAILER ON THE PROJECT SITE.
b. CONTRACTOR SHALL COMPLETELY REMOVE HIS TEMPORARY INSTALLATIONS WHEN NO LONGER NEEDED AND THE PREMISES SHALL BE COMPLETELY CLEAR, DISINFECTED, PATCHED, AND REFINISHED TO MATCH ADJACENT AREAS.
3. LADDERS AND SCAFFOLDS - THE ELECTRICAL AND LOW-VOLTAGE CONTRACTORS SHALL PROVIDE THEIR OWN LADDERS, SCAFFOLDS, ETC. OF SUBSTANTIAL CONSTRUCTION FOR ACCESS TO THEIR WORK IN VARIOUS PORTIONS OF THE BUILDING TO BE REQUIRED. WHEN NO LONGER NEEDED, THEY SHALL BE REMOVED BY THE CONTRACTOR.
4. PROTECTION DEVICES - THE ELECTRICAL AND LOW-VOLTAGE CONTRACTORS SHALL PROVIDE AND MAINTAIN THEIR OWN NECESSARY BARRICADES, FENCES, SIGNAL LIGHTS, ETC. WHEN NO ALL GOVERNING AUTHORITIES OR SHOWN ON THE DRAWINGS, HOWEVER, WHEN REQUIRED, THEY SHALL BE REMOVED BY THE CONTRACTOR.
5. TEMPORARY FIRE PROTECTION - THE ELECTRICAL AND LOW-VOLTAGE CONTRACTORS SHALL PROVIDE ALL NECESSARY FIRST AID HAND FIRE EXTINGUISHERS FOR CLASS A, B, C AND SPECIAL HAZARDS AS MAY EXIST IN HIS OWN WORK AREA ONLY IN ACCORDANCE WITH GOOD AND SAFE PRACTICE AND AS REQUIRED BY JURISDICTIONAL SAFETY AUTHORITY.

- I. RECORD DOCUMENTS (AS-BUILT DRAWINGS)
1. SEE REQUIREMENTS REGARDING RECORD DOCUMENTS IN GENERAL DIVISION AND DIVISION 1.
2. AT BEGINNING OF WORK, CONTRACTOR SHALL SET ASIDE ONE COMPLETE SET OF DRAWINGS WHICH SHALL BE MAINTAINED AS COMPLETE "AS-BUILT" SET. DRAWINGS SHALL BE UPDATED DAILY IN NEAT AND LEGIBLE MANNER AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. DRAWINGS, SPECIFICATION, ADDENDA, CHANGE ORDERS, ETC. SHALL BE MAINTAINED AT JOB SITE AND AVAILABLE FOR REVIEW AT ANY TIME.
3. SHOW DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK THAT WILL BECOME PERMANENTLY CONCEALED, CAST IN CONCRETE OR BURIED UNDERGROUND.
4. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO SYSTEMS SHOWN IN CONTRACT DOCUMENTS.
5. SHOW PROVISIONS FOR FUTURE CONNECTION, REFERENCED TO BUILDING LINES OR APPROVED BENCH MARKS.
6. PROVIDE WIRING DIAGRAMS FOR ALL INDIVIDUAL COMMUNICATIONS SYSTEMS AS INSTALLED. IDENTIFY ALL COMPONENTS AND SHOW ALL WIRE AND TERMINAL NUMBERS AND CONNECTIONS.
7. AT COMPLETION OF PROJECT, DELIVER DRAWINGS TO ENGINEER FOR REVIEW.
J. WARRANTY
1. THE CONTRACTOR SHALL GUARANTEE THAT ALL MATERIALS AND LABOR INSTALLED ARE NEW AND OF FIRST QUALITY AND THAT ANY MATERIAL OR LABOR FOUND DEFECTIVE SHALL BE REPLACED WITHOUT COST TO THE OWNER WITHIN ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION OF THE CONTRACT OR ONE (1) FULL SEASON OF HEATING AND COOLING OPERATION, WHICHEVER IS THE GREATER. THE GUARANTEE SHALL LIST THE DATE OF THE BEGINNING OF THE ONE (1) YEAR PERIOD, WHICH SHALL BE THE DATE THAT THE SUBSTANTIAL COMPLETION CERTIFICATE IS ISSUED.
2. ANY DAMAGE TO THE BUILDING, CAUSED BY DEFECTIVE WORK OR MATERIAL OF THE CONTRACTOR WITHIN THE ABOVE-MENTIONED PERIOD, SHALL BE SATISFACTORILY REPAIRED WITHOUT COST TO THE OWNER.
3. THE GUARANTEE DOES NOT INCLUDE MAINTENANCE OF EQUIPMENT. THE OWNER SHALL ACCEPT FULL RESPONSIBILITY FOR PROPER OPERATION AND MAINTENANCE OF EQUIPMENT IMMEDIATELY UPON SUBSTANTIAL COMPLETION AND OCCUPANCY OF THE BUILDING.
4. FINAL ACCEPTANCE BY THE OWNER WILL NOT OCCUR UNTIL ALL OPERATING INSTRUCTIONS ARE MOUNTED IN EQUIPMENT ROOMS AND OPERATING PERSONNEL THOROUGHLY INDOCTRINATED IN THE OPERATION OF ALL EQUIPMENT.
5. NO EQUIPMENT INSTALLED AS PART OF THIS PROJECT SHALL BE USED FOR TEMPORARY HEAT DURING CONSTRUCTION.

K. MATERIALS AND EQUIPMENT

- 1. MANUFACTURER'S TRADE NAMES AND CATALOG NUMBERS LISTED ARE INTENDED TO INDICATE THE QUALITY OF EQUIPMENT OR MATERIALS DESIRED. MANUFACTURERS NOT LISTED IN THE SPECIFICATION WILL BE CONSIDERED SUBSTITUTIONS AND MUST HAVE PRIOR APPROVAL.
2. SEE DIVISION 01 FOR SUBSTITUTIONS PROCEDURES, REQUESTS FOR DISCIPLINE WHOSE TO BE SUBMITTED SUFFICIENTLY AHEAD OF THE DEADLINE, TO GIVE AMPLE TIME FOR EXAMINATION. PRIOR APPROVAL REQUEST FOR SUBSTITUTION MUST INDICATE THE SPECIFIC ITEM OR ITEMS TO BE FURNISHED IN LIEU OF THOSE SCHEDULED, TOGETHER WITH COMPLETE TECHNICAL AND COMPARATIVE DATA ON SCHEDULED ITEMS AND ITEMS PROPOSED FOR SUBSTITUTION.
3. IF THE ENGINEER APPROVES ANY PROPOSED SUBSTITUTION, THE APPROVED PRODUCT WILL BE LISTED IN AN ADDENDUM. BIDDERS SHALL NOT RELY ON APPROVAL MADE IN ANY OTHER MANNER.
4. ELECTRICAL EQUIPMENT MAY BE INSTALLED WITH MANUFACTURER'S STANDARD FINISH AND COLOR EXCEPT WHERE SPECIFIC COLOR, FINISH OR CHOICE IS INDICATED. IF THE MANUFACTURER HAS NO STANDARD FINISH, EQUIPMENT SHALL HAVE A PRIME COAT AND TWO FINISH COATS OF GRAY ENAMEL.
5. HIGH ALTITUDE OPERATION: CAPACITY OF ALL EQUIPMENT IS TO BE SIZED AND MANUFACTURED TO PERFORM AT THE ELEVATION OF THE PROJECT SITE. IF NOT SPECIFICALLY INDICATED IN THE EQUIPMENT SCHEDULE OR IN THE SPECIFICATIONS PROVIDE ALL REQUIRED ACCESSORIES AND EQUIPMENT FOR PROPER OPERATION AT ELEVATION OF THE PROJECT SITE.
6. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT OF OTHERS FROM DAMAGE AS A RESULT OF HIS WORK.
7. MANUFACTURED MATERIAL AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED AND CONDITIONED AS DIRECTED BY MANUFACTURER UNLESS HEREIN SPECIFIED TO THE CONTRARY.
8. THE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR OR CONSTRUCTION MANAGER FOR THE INTRODUCTION INTO THE BUILDING OF EQUIPMENT TOO LARGE TO PASS THROUGH FINISHED OPENINGS.
9. STORE MATERIALS AND EQUIPMENT Indoors AT THE JOB SITE OR, IF THIS IS NOT POSSIBLE, STORE ON RAISED PLATFORMS AND PROTECT FROM THE WEATHER BY MEANS OF WATERPROOF COVERS. COVERINGS SHALL PERMIT CIRCULATION OF AIR AROUND THE MATERIALS TO PREVENT CONDENSATION OF MOISTURE. SCREEN OR CAP OPENINGS IN EQUIPMENT TO PREVENT THE ENTRY OF VERMIN.
L. SUBSTITUTION OF MATERIALS - WHERE SUBSTITUTED EQUIPMENT REQUIRES STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL WORK THAT DIFFERS FROM BASIC DESIGN, COST OF ALL CHANGES, INCLUDING RE-DESIGN, SHALL BE RESPONSIBILITY OF CONTRACTOR USING SUBSTITUTION.
1. APPROVED MANUFACTURERS
a. IN GENERAL, ONE PARTICULAR MANUFACTURER AND PART NUMBER OR SERIES IS LISTED TO DESCRIBE EQUIPMENT. EQUIVALENT EQUIPMENT OF OTHER MANUFACTURERS LISTED FOR THAT ITEM MAY BE SUBSTITUTED WITHOUT PRIOR APPROVAL. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ITEM USED FOR BIDDING PURPOSES IS TRULY EQUIVALENT TO THAT SPECIFIED. IF IT IS NOT EQUIVALENT, IT WILL BE REJECTED AT SHOP DRAWING REVIEW AND CONTRACTOR SHALL SUPPLY SPECIFIED ITEM AT HIS OWN EXPENSE.
b. IT IS UNDERSTOOD THAT MANUFACTURERS LISTED MAY NOT ACTUALLY HAVE EQUIVALENT PRODUCT TO THAT SPECIFIED. IF CONTRACTOR/DISTRIBUTOR HAS ANY QUESTIONS REGARDING DESIRED PRODUCT CHARACTERISTICS AND SUITABILITY OF PROPOSED SUBSTITUTION, HE IS ENCOURAGED TO SUBMIT FOR PRIOR APPROVAL. ALSO, ANY MANUFACTURER NOT LISTED SHALL BE SUBMITTED FOR PRIOR APPROVAL.
2. PRIOR APPROVALS
a. MANUFACTURERS NOT LISTED IN SPECIFICATION OR ON SCHEDULE FOR A PARTICULAR ITEM ARE OPEN FOR SUBSTITUTION PRIOR TO BID OPENING ON THE BASIS OF:
b. MANUFACTURERS DESIRING APPROVAL SHALL SUBMIT CATALOG CUTS THAT DEFINE QUALITY OF PRODUCT AND ABILITY TO PERFORM AS SPECIFIED. IT IS UNDERSTOOD THAT NO TWO MANUFACTURES USE IDENTICAL METHODS OR MAKE IDENTICAL PRODUCTS. ANY AND ALL DEVIATIONS FROM THAT WHICH IS SPECIFIED SHALL BE CLEARLY NOTED.
c. SUBMITTALS SHALL ARRIVE AT ENGINEER AT LEAST TEN (10) DAYS PRIOR TO BID OPENING. ALL APPROVALS WILL BE LISTED IN LAST ADDENDUM AS BEING APPROVED TO BID. ITEMS SUBSTITUTED, BUT NOT LISTED IN CONTRACT DOCUMENTS, WILL NOT BE CONSIDERED IF SUBMITTED ON SHOP DRAWINGS.
d. APPROVAL OF SUBSTITUTED EQUIPMENT IS ON BASIS OF QUALITY ONLY. MATERIALS SUPPLIER SHALL BE RESPONSIBLE FOR HIS QUOTATION REFLECTING PROPER SELECTION OF HIS PARTICULAR EQUIPMENT WITH REGARD TO PROPER CAPACITIES, PHYSICAL DIMENSIONS, REQUIREMENTS, INTENDED FUNCTION, FINISH, COLOR, ETC. ENGINEER WILL NOT GIVE APPROVAL TO SPECIFIC MODEL NUMBERS OR CHECK CAPACITIES, DIMENSIONS, OR REQUIREMENTS. EVALUATION WILL BE ON BASIS OF QUALITY AND EQUALITY TO SPECIFIED ITEMS.
e. PRIOR APPROVAL SHALL BE OBTAINED FROM ENGINEER AND NO OTHER ENTITY (ARCHITECT, OWNER, ETC.) IS AUTHORIZED TO GIVE SUCH APPROVAL.
3. SAMPLING
a. WHERE, IN ENGINEER/ARCHITECT'S OPINION, PRODUCT SAMPLE IS REQUIRED IN ORDER TO DETERMINE APPEARANCE, QUALITY, WORKMANSHIP OR OPERATION, CONTRACTOR SHALL SUBMIT ACTUAL PRODUCTION SAMPLES OF ITEM IN QUESTION.
b. SAMPLES WILL BE RETURNED TO CONTRACTOR. APPROVED SAMPLES MAY BE USED FOR THE BIDDING PROCESS.
c. ALL COSTS INCURRED IN PROVIDING AND RETURNING SAMPLES WILL BE CONTRACTOR'S RESPONSIBILITY.
M. PRODUCT AND SYSTEM SUBMITTALS
1. SUBMITTALS WILL BE REQUIRED FOR EACH PIECE OF EQUIPMENT, MATERIAL OR PRODUCT UTILIZED IN THE PROJECT. ALL SUBMITTALS SHALL BE SUBMITTED, REVIEWED AND ALL DISCREPANCIES ADDRESSED PRIOR TO ORDERING EQUIPMENT OR STARTING WORK. ANY EQUIPMENT ORDERED WITHOUT HAVING FIRST COMPLETED THE SUBMITTAL PROCESS IS DONE AT THE RISK OF THE CONTRACTOR. ANY WORK PERFORMED PRIOR TO COMPLETING THE SUBMITTAL PROCESS IS DONE AT THE RISK OF THE CONTRACTOR.
2. SUBMITTAL DEFINITIONS
a. PRODUCT DATA: PROVIDE MANUFACTURERS CUT SHEETS THAT INCLUDE GENERAL PRODUCT INFORMATION INCLUDING BUT NOT LIMITED TO: MODEL NUMBER, PHYSICAL DATA, NOMINAL CAPACITIES, ROUGH-IN REQUIREMENTS, PERFORMANCE DATA. PROVIDE DETAILED PERFORMANCE AND CAPACITIES BASED ON PROJECT SPECIFIC REQUIREMENTS INCLUDING BUT NOT LIMITED TO: VOLTAGE, PHASE, AMPERAGE, OVERCURRENT PROTECTION, CONDUCTOR SIZE, CONDUCTOR MATERIAL, CONDUIT SIZE, COLOR TEMPERATURE, COLOR RENDERING INDEX, LIFE EXPECTANCE, EFFICACY, EFFICIENCY, IP RATINGS, LIGHT DISTRIBUTION TYPES AND LIGHTING CONTROL.
b. SHOP DRAWINGS: PROVIDE DETAILED DRAWINGS OF THE EQUIPMENT SHOWING OVERALL DIMENSIONS, LOCATION OF ELECTRICAL CONNECTION, LOCATION OF ANCHORAGE POINTS, LOCATION OF ELECTRICAL AND CONTROL PANELS, AND ALL OPERATING, SERVICE AND MAINTENANCE CLEARANCES.
c. DELAYED DESIGN: PROVIDE DETAILED DRAWINGS PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER THAT DETAIL PERTINENT DESIGN CRITERIA, THE MATERIALS AND PRODUCTS TO BE INSTALLED AND THE REQUIRED INSTALLATION LOCATIONS.
d. WIRING DIAGRAM: PROVIDE DIAGRAMS THAT IDENTIFY AND DETAIL REQUIRED FIELD WIRING.
e. COLOR CHART: PROVIDE A PHYSICAL COLOR CHART OF MATERIAL SAMPLES REQUIRED FOR SELECTION OF EQUIPMENT COLORS.
f. SUSTAINABILITY COMPLIANCE: PROVIDE LITERATURE THAT INDICATED A PRODUCTS COMPLIANCE WITH LEED OR GREEN GLOBES. SEE DIVISION 01 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. SUBMITTAL FORM
a. INCLUDE THE FOLLOWING INFORMATION WITH EACH SUBMITTAL:
• PROJECT NAME
• SUBMITTAL DATE
• NAME OF ARCHITECT
• NAME OF ENGINEER
• NAME OF GENERAL CONTRACTOR OR CONSTRUCTION MANAGER
• NAME OF SUB-CONTRACTOR
• NAME OF FIRM OR ENTITY THAT PREPARED THE SUBMITTAL
• UNIQUE SUBMITTAL NUMBER
• TYPE OF SUBMITTAL
• SPECIFICATION SECTION
• NAME OR MARK OF EQUIPMENT OR MATERIAL AND DETAIL OR DRAWINGS REFERENCE.
b. ALL SUBMITTAL WITH THE EXCEPTION OF COLOR CHARTS OR MATERIAL SAMPLES SHALL BE TRANSMITTED BY ELECTRONICALLY TRANSMITTED PDF'S OVER 8 MB SHALL BE SETUP ON A SHARE FILE SITE AND ACCESS GRANTED THROUGH EMAIL WITH FOLDER'S LINK FOR DOWNLOAD.

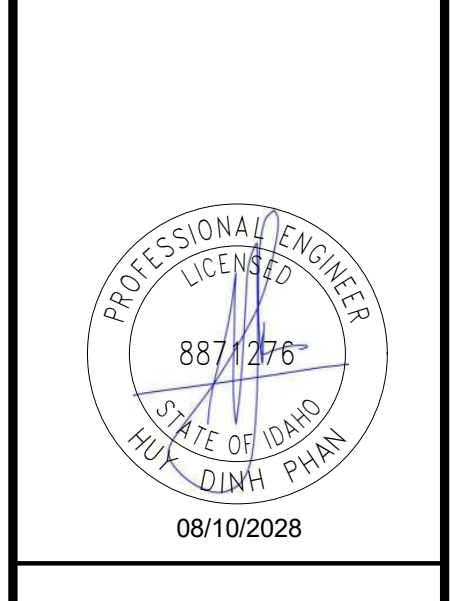
4. SUBMITTAL REQUIREMENTS

- a. SUBMITTALS SHALL BE SUBMITTED AS A COMPLETE SPECIFICATION SECTION. THE SUBMITTAL MUST INCLUDE ALL MATERIALS AND EQUIPMENT FOR THAT SPECIFICATION SECTION. SUBMITTALS FOR INDIVIDUAL MATERIALS OF EQUIPMENT WILL BE REJECTED WITHOUT REVIEW.
b. SUBMITTALS SHALL BE COMPLETE, CLEARLY SHOW ITEM USED, SIZE, DIMENSIONS, CAPACITY, RUGH-IN, ETC., AS REQUIRED FOR COMPLETE CHECK AND INSTALLATION. MANUFACTURER'S LITERATURE SHOWING MORE THAN ONE ITEM SHALL BE CLEARLY MARKED AS TO WHICH ITEM IS BEING FURNISHED OR IT WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
c. EACH SUBMITTAL SHALL BE THOROUGHLY CHECKED BY THE CONTRACTOR FOR ACCURACY WITH THE CONTRACT DOCUMENT REQUIREMENTS, ACCURACY OF DIMENSIONS, RELATIONSHIP TO THE WORK OF OTHER TRADES, AND CONFORMANCE WITH SOUND, SAFE PRACTICES AS TO ERECTION AND INSTALLATION. EACH SUBMITTAL SHALL THEN BEAR A STAMP EVIDENCING SUCH CHECKING AND SHALL SHOW CORRECTIONS MADE, IF ANY. SUBMITTALS REQUIRING EXTENSIVE CORRECTIONS SHALL BE REVISED BEFORE SUBMISSION. EACH SUBMITTAL NOT STAMPED AND SIGNED BY THE GENERAL AND ELECTRICAL CONTRACTORS EVIDENCING SUCH CHECKING WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
d. ON EACH SUBMITTAL, CLEARLY INDICATE DEVIATIONS FROM REQUIREMENTS IN THE CONTRACT DOCUMENTS, INCLUDING MINOR VARIATIONS AND LIMITATIONS; INCLUDE RELEVANT ADDITIONAL INFORMATION AND REVISIONS, OTHER THAN THOSE REQUESTED ON PREVIOUS SUBMITTALS. INDICATE BY HIGHLIGHTING ON EACH SUBMITTAL OR NOTING ON ATTACHED SEPARATE SHEET.
e. REVIEW OF THE SHOP DRAWINGS AND LITERATURE BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FOR RESPONSIBILITY FOR DEVIATIONS FROM THE DRAWINGS OR SPECIFICATIONS, NOR SHALL IT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN THE SHOP DRAWINGS OR LITERATURE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE MATERIALS AND EQUIPMENT WHICH MEET THE SPECIFICATIONS AND JOB REQUIREMENTS.
f. LUMINAIRE SUBMITTALS SHALL INCLUDE DIMENSIONS, QUALITY, DISTRIBUTION, COLOR RENDERING INDEX, COLOR TEMPERATURE, OPTICS, PHOTOMETRICS, ALL LISTINGS (UL, DLC, ENERGY STAR, MADE IN AMERICA, ETC.), IP RATINGS, VOLTAGE, WATTAGE, WARRANTY, INSTALLATION METHODS, CONTROL METHODS, EFFICACY, EFFICIENCY, DIFFUSER OPTIONS, EMERGENCY OPERATION AND ANY REQUIRED ACCESSORIES. PROVIDE IES AND REVIT FILES UPON REQUEST.
g. ENGINEER'S REVIEW - SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE CONTRACTOR FROM ANY LIABILITY FOR THE PROTECTION OF MATERIALS AND EQUIPMENT WHICH WILL BE CHECKED FOR QUANTITY, DIMENSION, FIT OR PROPER TECHNICAL DESIGN OF MANUFACTURED EQUIPMENT. WHERE PRODUCT OR SYSTEM PERFORMANCE DEVIATIONS HAVE NOT BEEN SPECIFICALLY NOTED IN SUBMITTAL BY CONTRACTOR, ENGINEER'S REVIEW WILL NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR THE PROTECTION OF MATERIALS AND EQUIPMENT. INSTALLATION OF EQUAL QUALITY AND PERFORMANCE TO SPECIFIED SYSTEM, ORDERING, MANUFACTURE, SHIPMENT OR INSTALLATION OF EQUIPMENT PRIOR TO RECEIPT OF ENGINEER'S WRITTEN REVIEW IS STRICTLY AT CONTRACTOR'S RISK AND ALL COSTS ASSOCIATED WITH SHIPPING, CHANGES, REPLACEMENT OR RESTOCKING SHALL BE CONTRACTOR'S RESPONSIBILITY.
N. SUB-CONTRACTORS - WITH SHOP DRAWING SUBMITTALS, CONTRACTOR SHALL SUBMIT LIST OF ALL SUB-CONTRACTORS TO BE USED FOR THE PROJECT.
O. OPERATION AND MAINTENANCE MANUALS
1. OPERATION AND MAINTENANCE MANUALS (O&M MANUALS) SHALL CONTAIN:
a. NAMES AND CONTACT INFORMATION FOR THE PROJECT ARCHITECT, PROJECT ENGINEER.
b. NAMES AND CONTACT INFORMATION FOR THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
c. NAMES AND CONTACT INFORMATION FOR SUB-CONTRACTORS.
d. NAMES AND CONTACT INFORMATION AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT.
e. PARTS LISTS
f. WIRING DIAGRAMS
g. EQUIPMENT START-UP AND INSPECTION CERTIFICATES
h. TEST AND BALANCE REPORTS
i. COMMISSIONING REPORTS
j. COPIES OF EQUIPMENT WARRANTIES
k. COPIES OF SUBMITTALS
l. RECORD DRAWINGS.
m. SUMMARY OF WORK PERFORMED UNDER THIS PROJECT.
n. CONTROL SYSTEM DRAWINGS AND SEQUENCES OF OPERATION.
o. LIST OF IMPORTANT MAINTENANCE AND TROUBLE-SHOOTING OPERATIONS FOR ALL SYSTEMS.
c. PROVIDE MINIMUM OF 2 COPIES OF CONTRACT DOCUMENTS INCLUDING ALL DRAWINGS, SPECIFICATIONS, ADDENDUMS, AND CHANGE ORDERS.
5. TRAINING SESSIONS
a. ASSEMBLE AT LOCATION TO BE DETERMINED BY THE OWNER.
b. DISTRIBUTE TRAINING DOCUMENTATION AS INDICATED ABOVE.
c. PROVIDE CLASSROOM STYLE TRAINING IF REQUIRED FOR ORIENTATION, DISCUSSION OF NEW SYSTEMS AND EXISTING SYSTEMS AFFECTED BY THIS PROJECT, AND OTHER ISSUES APPROPRIATE FOR A CLASSROOM FORMAT.
d. VISIT SITE AND REVIEW LOCATIONS, AND PERFORM DETAILED REVIEW OF OPERATION AND MAINTENANCE REQUIREMENTS FOR CURRENT SYSTEMS.
e. ALL TRAINING SESSION SHALL BE VIDEO RECORDED AND DISTRIBUTED TO THE OWNER UPON COMPLETION IN DVD FORMAT, OR OWNER DESIRED FORMAT. INCLUDE ALL TRAINING VIDEOS IN THE O&M MANUAL.

S. PROJECT COMPLETION AND DEMONSTRATION

- 1. TESTING
a. PRIOR TO FINAL TEST, ALL SWITCHES, PANELBOARDS, DEVICES, AND FIXTURES SHALL BE IN PLACE.
b. AT COMPLETION OF WORK, OR UPON REQUEST FROM ARCHITECT/ENGINEER, PLACE ENTIRE ELECTRICAL INSTALLATION, AND/OR ANY PORTION THEREOF, IN OPERATION TO DEMONSTRATE SATISFACTORY OPERATION.
c. ALL ELECTRICAL SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS AND UNINTENTIONAL GROUNDS.
d. FURNISH ONE (1) COPY OF CERTIFIED TEST RESULTS TO ARCHITECT/ENGINEER PRIOR TO FINAL INSPECTION AND INCLUDE ONE (1) COPY IN EACH BROCHURE OF EQUIPMENT.
2. ADJUSTMENTS
a. MAKE ALL CHANGES NECESSARY TO BALANCE CONNECTED ELECTRICAL LOADS ON COMPLETE SYSTEM. ARRANGE FOR BALANCED CONDITIONS OF CIRCUITS UNDER CONNECTED LOAD DEMANDS, AS CONTEMPLATED BY NORMAL WORKING CONDITIONS. FINAL LOAD AND BALANCE TEST SHALL BE DEMONSTRATED IN PRESENCE OF ARCHITECT/ENGINEER.
b. IMMEDIATELY CORRECT ALL DEFICIENCIES WHICH ARE EVIDENCED DURING TESTS AND REPEAT TESTS UNTIL SYSTEM IS APPROVED. DO NOT COVER OR CONCEAL ELECTRICAL INSTALLATIONS UNTIL SATISFACTORY TESTS ARE MADE AND APPROVED.
3. FINAL WALK-THRU
a. CONDUCT OPERATING TESTS DURING FINAL INSPECTION. DEMONSTRATE INSTALLATION TO OPERATE SATISFACTORILY IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS. SHOULD ANY PORTION OF INSTALLATION FAIL TO MEET REQUIREMENTS OF CONTRACT DOCUMENTS, REPAIR OR REPLACE ITEMS FAILING TO MEET REQUIREMENTS UNTIL ITEMS CAN BE DEMONSTRATED TO COMPLY.
b. HAVE INSTRUMENTS AVAILABLE FOR MEASURING LIGHT INTENSITIES, VOLTAGE AND CURRENT VALUES AND FOR DEMONSTRATION OF CONTINUITY, GROUNDS, OR OPEN CIRCUIT CONDITIONS.
c. FURNISH PERSONNEL TO ASSIST IN TAKING MEASUREMENTS AND MAKING TESTS. IN EVENT THAT SYSTEMS ARE NOT COMPLETE AND FULLY OPERATIONAL AT TIME OF FINAL INSPECTION, ALL COSTS OF ANY SUBSEQUENT INSPECTIONS SHALL BE BORNE BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
T. OWNER ORIENTATION AND TRAINING
1. GENERAL
a. THE SYSTEM TRAINING IS INTENDED TO FAMILIARIZE THE OWNER'S OPERATING AND MAINTENANCE STAFF WITH ALL SYSTEMS REQUIRING MAINTENANCE. TRAINING IS TO BE PROVIDED AFTER THE SYSTEMS ARE IN PLACE AND OPERATIONAL. AFTER ISSUES NOTED DURING COMMISSIONING HAVE BEEN RESOLVED, AND BEFORE FINAL ACCEPTANCE.
b. PROVIDE SECOND SET OF TRAINING SESSIONS FOR AUTOMATIC CONTROL SYSTEMS ABOUT 6-9 MONTHS AFTER THE FIRST SESSIONS.
c. ALL TRAINING SHALL BE VIDEO TAPED, REPRODUCED ON DVD'S AND GIVEN TO THE OWNER. PROVIDE A COPY FOR EACH O&M MANUAL PRODUCED.
d. SEE INDIVIDUAL SPECIFICATION SECTIONS FOR ADDITIONAL TRAINING REQUIREMENTS.
2. ATTENDANCE - TRAINING IS TO BE PROVIDED BY CONTRACTOR'S REPRESENTATIVES THAT ARE FAMILIAR WITH THE SYSTEM'S OPERATION AND MAINTENANCE REQUIREMENTS. INDIVIDUAL TRAINING SESSIONS (MODULES) ARE TO BE PROVIDED FOR EACH TYPE OR GROUP OF SYSTEMS, SEPARATED ROUGHLY BY TRADE GROUP THAT WILL BE PERFORMING MAINTENANCE ON THE SYSTEM.
3. SCHEDULE - DUPLICATE TRAINING SESSIONS ARE TO BE PROVIDED FOR EACH TRAINING MODULE. SO THAT OWNER'S OPERATING PERSONNEL CAN BE SPLIT INTO TWO GROUPS DURING TRAINING. DUPLICATE TRAINING SESSIONS TO BE SCHEDULED ON DIFFERENT DAYS. LENGTH OF TRAINING SESSIONS WILL BE DETERMINED BY SCOPE OF TRAINING INDICATED BELOW, AND AS COORDINATED WITH OWNER AFTER DRAFT COPY OF TRAINING DOCUMENTS HAVE BEEN REVIEWED.
4. TRAINING DOCUMENTATION
a. CONTRACTOR TO SUBMIT DRAFT COPY OF AGENDA AND TRAINING DOCUMENTS TO OWNER FOR REVIEW AT LEAST TWO WEEKS PRIOR TO TRAINING DATE.
b. PROVIDE A COPY OF THE FOLLOWING ITEMS FOR EACH PERSON THAT WILL BE ATTENDING THE TRAINING SESSIONS. COORDINATE REQUIRED NUMBER WITH THE OWNER.
• TRAINING AGENDA.
• SUMMARY OF NEW SYSTEMS AND EXISTING SYSTEMS AFFECTED BY THIS PROJECT.
• SUMMARY OF WORK PERFORMED UNDER THIS PROJECT.
• CONTROL SYSTEM DRAWINGS AND SEQUENCES OF OPERATION.
• LIST OF IMPORTANT MAINTENANCE AND TROUBLE-SHOOTING OPERATIONS FOR ALL SYSTEMS.
c. PROVIDE MINIMUM OF 2 COPIES OF CONTRACT DOCUMENTS INCLUDING ALL DRAWINGS, SPECIFICATIONS, ADDENDUMS, AND CHANGE ORDERS.
5. TRAINING SESSIONS
a. ASSEMBLE AT LOCATION TO BE DETERMINED BY THE OWNER.
b. DISTRIBUTE TRAINING DOCUMENTATION AS INDICATED ABOVE.
c. PROVIDE CLASSROOM STYLE TRAINING IF REQUIRED FOR ORIENTATION, DISCUSSION OF NEW SYSTEMS AND EXISTING SYSTEMS AFFECTED BY THIS PROJECT, AND OTHER ISSUES APPROPRIATE FOR A CLASSROOM FORMAT.
d. VISIT SITE AND REVIEW LOCATIONS, AND PERFORM DETAILED REVIEW OF OPERATION AND MAINTENANCE REQUIREMENTS FOR CURRENT SYSTEMS.
e. ALL TRAINING SESSION SHALL BE VIDEO RECORDED AND DISTRIBUTED TO THE OWNER UPON COMPLETION IN DVD FORMAT, OR OWNER DESIRED FORMAT. INCLUDE ALL TRAINING VIDEOS IN THE O&M MANUAL.

PROFESSIONAL ENGINEER
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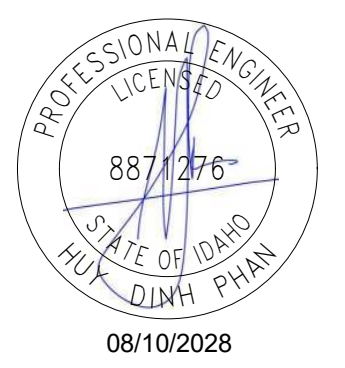
LAKELAND JOINT SCHOOL DISTRICT 272
LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
15601 ID-41, RATHDRUM, ID 83858
ELECTRICAL SHEET SPECIFICATIONS

PROJECT NO. 25028
DESIGNED BY MWM
DRAWN BY MWM
ISSUE DATE 4/10/2026
PHASE 100% CD
CHECKED BY HDP
SHEET NO.

E0.02

ELECTRICAL GENERAL NOTES

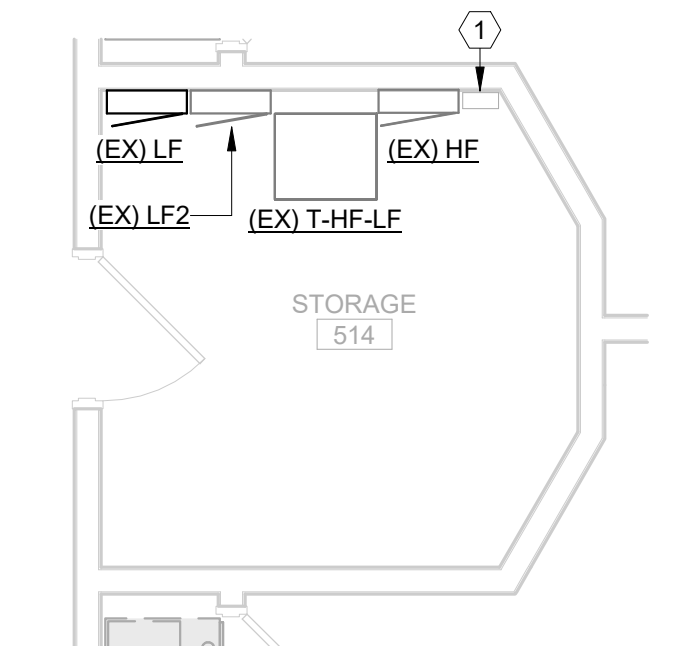
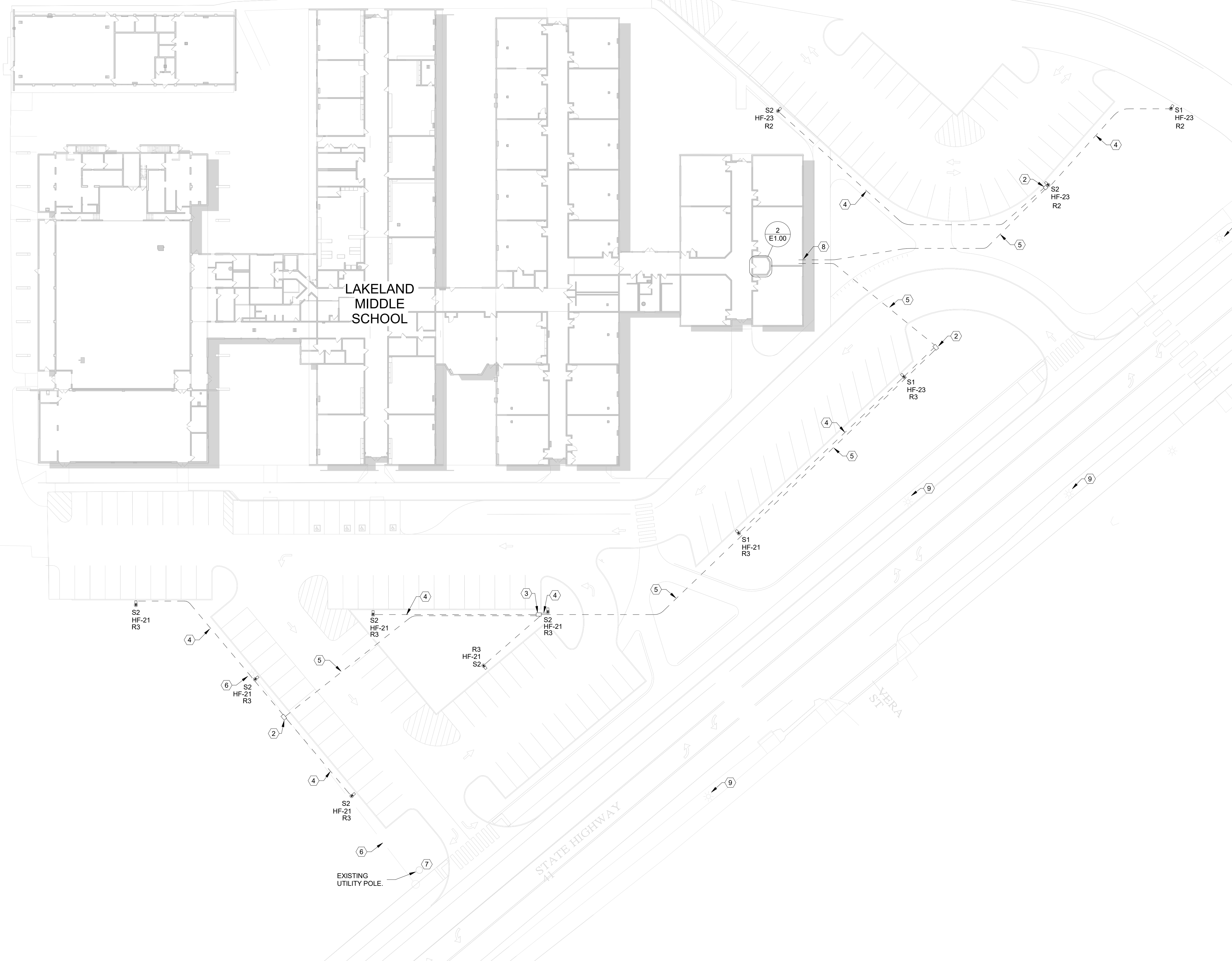
- IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING OF EXISTING GRADE, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER.
- DIAGRAMS INDICATE OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.
- UNLESS NOTED OTHERWISE, LINES AND ITEMS IN SOLID GRAY AND HALFTONE ARE EXISTING TO REMAIN.
- ALL CONDUCTORS SHALL BE COPPER, UNLESS DENOTED WITH (AL) FOR COMPACT STRANDED ALUMINUM.
- ALL CONDUCTORS SHALL BE INSTALLED CONTINUOUS (POINT TO POINT) AND WITHOUT SPLICING, UNLESS OTHERWISE NOTED.
- BRANCH CIRCUITING IS NOT SHOWN. REFER TO PANEL SCHEDULES AND PLANS FOR ADDITIONAL INFORMATION.
- WHERE NOTED WITH 'LSI' PROVIDE ELECTRONIC, ADJUSTABLE TRIP CIRCUIT BREAKER. WHERE NOTED WITH 'LSIG', PROVIDE ELECTRONIC, ADJUSTABLE TRIP CIRCUIT BREAKER WITH GROUND FAULT PROTECTION.
- OVER-CURRENT DEVICES WITH ADJUSTABLE TRIP RATINGS CAPABLE OF BEING SET TO 2000A SHALL BE PROVIDED WITH ENERGY-REDUCING MAINTENANCE SWITCH FOR COMPLIANCE WITH NEC 240.87.
- ALL DISTRIBUTION EQUIPMENT SHALL BE LABELED WITH THE FOLLOWING:
 - EQUIPMENT DESIGNATION
 - SOURCE FROM WHICH EQUIPMENT IS FED
 - VOLTAGE, PHASE, AND WIRING CONFIGURATION
 - AIC RATING
 - ARC-FLASH HAZARD WARNING LABEL PER NFPA 70E
 - LOCATION OF MAIN DISCONNECT (ON UTILITY SECTION/METER SOCKET)
 - DENOTE VOLTAGE COLORING SYSTEM ON LABEL PER NEC
- UTILITY INFRASTRUCTURE AND MATERIALS INCLUDING BUT NOT LIMITED TO CONDUITS, PAD-VAULTS, CONNECTIONS, METERING EQUIPMENT, PULL BOXES AND OTHER SERVICE PROVISIONS SHALL BE INSTALLED BY THE BIDDING CONTRACTOR PER THE UTILITY COMPANY DESIGN AND ELECTRIC SERVICE MANUAL. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY REPRESENTATIVE TO OBTAIN UTILITY DESIGN DRAWINGS AND TO SCHEDULE THE REQUIRED MILESTONE INSPECTIONS.
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- ### KEY NOTES:
- EXISTING RELAY CONTACTOR TO BE MODIFIED AS PART OF SITE LIGHTING. REFERENCE DETAIL 2/E0.03 FOR ADDITIONAL INFORMATION.
 - PROVIDE TYPE I HANDHOLE. REFERENCE DETAIL 7/E0.03 FOR ADDITIONAL INFORMATION.
 - PROVIDE TYPE I HANDHOLE. REFERENCE DETAIL 8/E0.03 FOR ADDITIONAL INFORMATION.
 - PROVIDE (1) 1" CONDUIT W/ (2)#10, (1) #10G.
 - PROVIDE (1) 1" CONDUIT W/ (2)#10, (1) #10G AND (1) 1" SPARE CONDUIT.
 - EXISTING UTILITY FURNISHED LIGHT POLE AND OVERHEAD LINES TO BE REMOVED BY UTILITY. COORDINATE WITH UTILITY FOR SCHEDULING AND EXACT ELECTRICAL REQUIREMENTS.
 - UTILITY TO REMOVE POLE TOP TRANSFORMER FROM EXISTING UTILITY POLE ASSOCIATED WITH PARKING LOT LIGHTING PROVIDED BY UTILITY. REFERENCE KEYNOTE 6.
 - ROUTE CONDUIT UP EXTERIOR WALL OF BUILDING AND PROVIDE LB CONDUIT BODY TO TRANSITION INTO CEILING SPACE. COORDINATE EXACT CONDUIT ROUTING WITH EXISTING CONDITIONS, AND ARCHITECTURAL PRIOR TO ROUGH-IN. PROVIDE GAPPING AND ALL MATERIALS TO MATCH EXISTING CONDITIONS. PAINT EXPOSED EXTERIOR CONDUIT TO MATCH EXTERIOR. REFERENCE DETAIL 4/E0.03 FOR ADDITIONAL INFORMATION.
 - EXISTING STREET LIGHTING COBRA HEAD, SHOWN FOR REFERENCE ONLY.



2 STORAGE 514 - ENLARGED
 SCALE: 1/4" = 1'-0"

OVERALL ELECTRICAL SITE PLAN
 SCALE: 1" = 30'-0"

LAKELAND JOINT SCHOOL DISTRICT 272
 LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
 15601 ID-41, RATHDRUM, ID 83858
 ELECTRICAL SITE PLAN

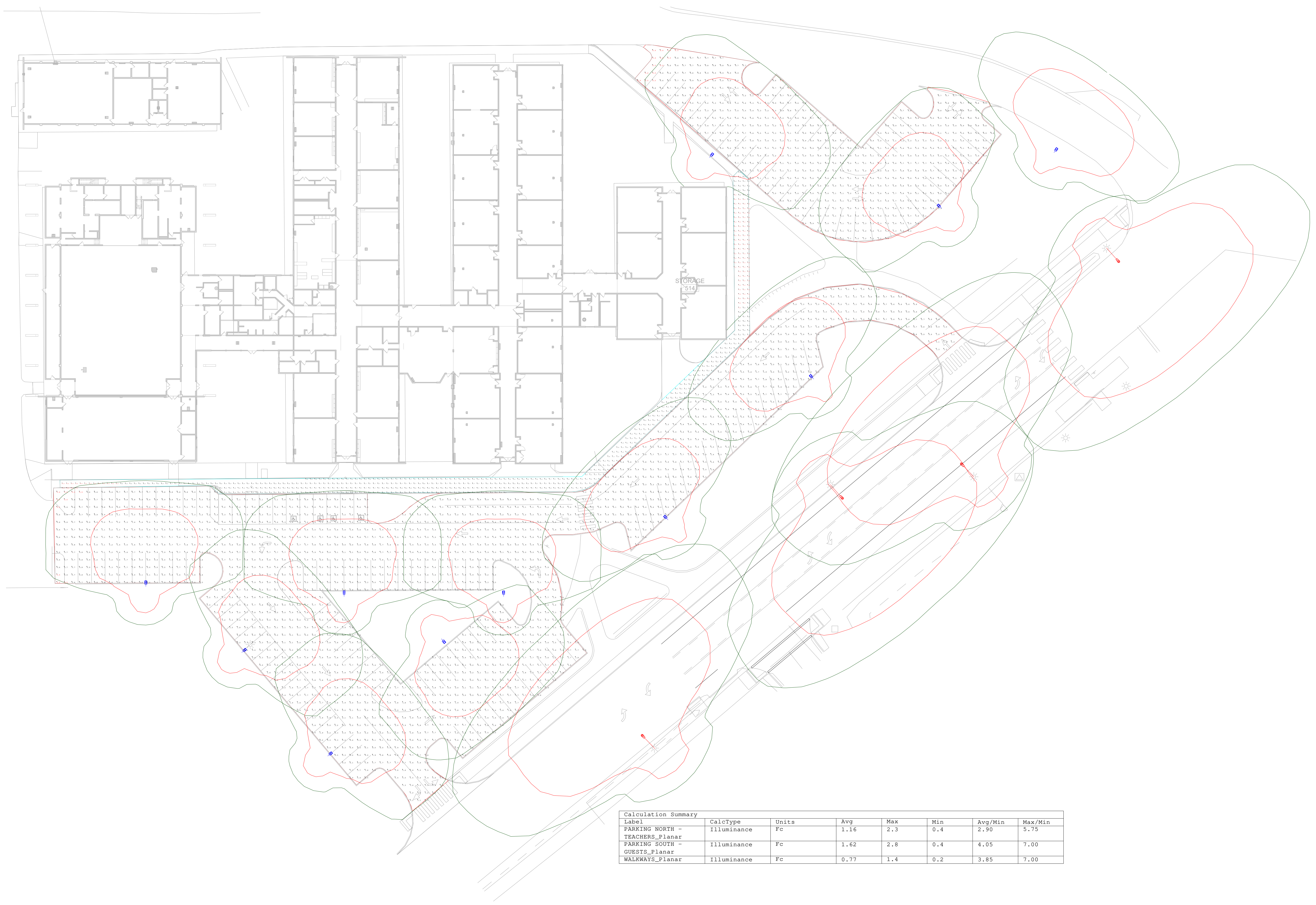
PROJECT NO.	25028
DESIGNED BY	MWM
DRAWN BY	MWM
ISSUE DATE	4/10/2026
PHASE	100% CD
CHECKED BY	HDP
SHEET NO.	

E1.00



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Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING NORTH - TEACHERS_Planar	Illuminance	Fc	1.16	2.3	0.4	2.90	5.75
PARKING SOUTH - GUESTS_Planar	Illuminance	Fc	1.62	2.8	0.4	4.05	7.00
WALKWAYS_Planar	Illuminance	Fc	0.77	1.4	0.2	3.85	7.00

No.	Description	Date

LAKELAND JOINT SCHOOL DISTRICT 272
LAKELAND MIDDLE SCHOOL SITE IMPROVEMENTS
 15601 ID-41, RATHDRUM, ID 83858
 SITE PHOTOMETRIC PLAN

PROJECT NO. 25028
 DESIGNED BY MWM
 DRAWN BY MWM
 ISSUE DATE 4/10/2026
 PHASE 100% CD
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 SHEET NO.

E1.01PH