STANDARD SYMBOLS

EXISTING		PROPOSED
	COMBINED SEWER	
	STORM SEWER	
	SANITARY SEWER	
	FORCEMAIN	
	DRAINTILE	
	WATER MAIN	
	ELECTRIC	
	GAS	
	TELEPHONE	
	SANITARY MANHOLE	
	STORM MANHOLE	
	CATCH BASIN	
	STORM INLET	
	CLEANOUT	
	HAY BALES	
	RIP RAP	
	VALVE IN VAULT	
	VALVE IN BOX	
	FIRE HYDRANT	
	BUFFALO BOX	
	FLARED END SECTION	
	STREET LIGHT	
	SUMMIT LOW POINT	
	RIM ELEVATION INVERT ELEVATION	790.25 790.20
	DITCH OR SWALE	
	DIRECTION OF FLOW	
	OVERFLOW RELIEF SWALE	
	1 FOOT CONTOURS	
	CURB AND GUTTER	
	DEPRESSED CURB AND GUTTER	
	REVERSE CURB AND GUTTER	
	SIDEWALK	
	H.C. ACCESSIBLE RAMP	
	PROPERTY LINE	
	EASEMENT LINE	
	SETBACK LINE	
	MAIL BOX	
	SIGN	
	TRAFFIC SIGNAL	
	POWER POLE	
	GUY WIRE	
	GAS VALVE	
	HANDHOLE	
	ELECTRICAL EQUIPMENT	
	TELEPHONE EQUIPMENT	
	CHAIN-LINK FENCE	
	SPOT ELEVATION	792.8
	BRUSH/TREE LINE	
	DECIDUOUS TREE WITH TRUNK DIA. IN INCHES (TBR)	
	CONIFEROUS TREE WITH HEIGHT IN FEET (TBR)	
	SILT FENCE	
	RETAINING WALL	
	WETLAND	

ABBREVIATIONS

ADJ	ADJUST	FES	FLARED END SECTION	PVI	POINT OF VERTICAL INTERSECTION
AGG.	AGGREGATE	F.A.	FLOW LINE	PVT	POINT OF VERTICAL TANGENCY
ARCH	ARCHITECT	FM	FORCE MAIN	P	PAVEMENT
B.A.M.	BITUMINOUS AGGREGATE MIXTURE	G	GROUND	P.U.D.E.	PUBLIC UTILITY & DRAINAGE EASEMENT
B-B	BACK TO BACK	GAS	GAS	R	RADIUS
B/P	BOTTOM OF PIPE	G/F	GRADE AT FOUNDATION	R.O.W.	RIGHT-OF-WAY
B/W	BACK OF WALK	G/WALL	GRADE AT WALL	RCP	REINFORCED CONCRETE PIPE
B-BOX	BUFFALO BOX	GM	GENERAL MERCHANDISE	REM	REMOVAL
BIT	BITUMINOUS	GR	GROCERY	RR	RAILROAD
BM	BENCHMARK	GW	GUY WIRE	RT	RIGHT
B.O.	BY OTHERS	HDWL	HEADWALL	SAN	SANITARY
C.E.	COMMERCIAL ENTRANCE	HH	HANDHOLE	SF	SQUARE FOOT
CB	CATCH BASIN	HWL	HIGH WATER LEVEL	SHLD.	SHOULDER
CL	CENTERLINE	HYD.	HYDRANT	SL	STREET LIGHT
CLID	CLOSED LID	INL	INLET	SMH	SANITARY MANHOLE
CMP	CORRUGATED METAL PIPE	INV.	INVERT	ST	STORM
CNTRL	CONTROL	IP	IRON PIPE	STA.	STATION
C.O.	CLEANOUT	MAX.	MAXIMUM	STD	STANDARD
CONC	CONCRETE	MB	MAILBOX	SW	SIDEWALK
CY	CUBIC YARD	MH	MANHOLE	SY	SQUARE YARDS
D	DITCH	MIN.	MINIMUM	TBR	TO BE REMOVED
DIA.	DIAMETER	NWL	NORMAL WATER LEVEL	T	TELEPHONE
DIP	DUCTILE IRON PIPE	OLID	OPEN LID	T-A	TYPE A
DIWM	DUCTILE IRON WATER MAIN	P.E.	PRIVATE ENTRANCE	T/C	TOP OF CURB
DS	DOWNSPOUT	PC	POINT OF CURVE	T/F	TOP OF FOUNDATION
DT	DRAIN TILE	PCC	POINT OF COMPOUND CURVE	T/P	TOP OF PIPE
E	ELECTRIC	PGL	PROFILE GRADE LINE	T/W	TOP OF WALK
E-E	EDGE TO EDGE	PI	POINT OF INTERSECTION	T/WALL	TOP OF WALL
ELEV	ELEVATION	PL	PROPERTY LINE	TEMP	TEMPORARY
E/P	EDGE OF PAVEMENT	PP	POWER POLE	TRANS	TRANSFORMER
EX	EXISTING	PROP	PROPOSED	V.B.	VALVE BOX
F.E.	FIELD ENTRANCE	PT	POINT OF TANGENCY	VCP	VITRIFIED CLAY PIPE
F-F	FACE TO FACE	PVC	POLYVINYL CHLORIDE PIPE	V.V.	VALVE VAULT
F.F.	FINISHED FLOOR	PVC	POINT OF VERTICAL CURVE	WL	WATER LEVEL
				WM	WATER MAIN

CALL JULIE TOLL FREE 1-800-892-0123

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1-800-892-0123

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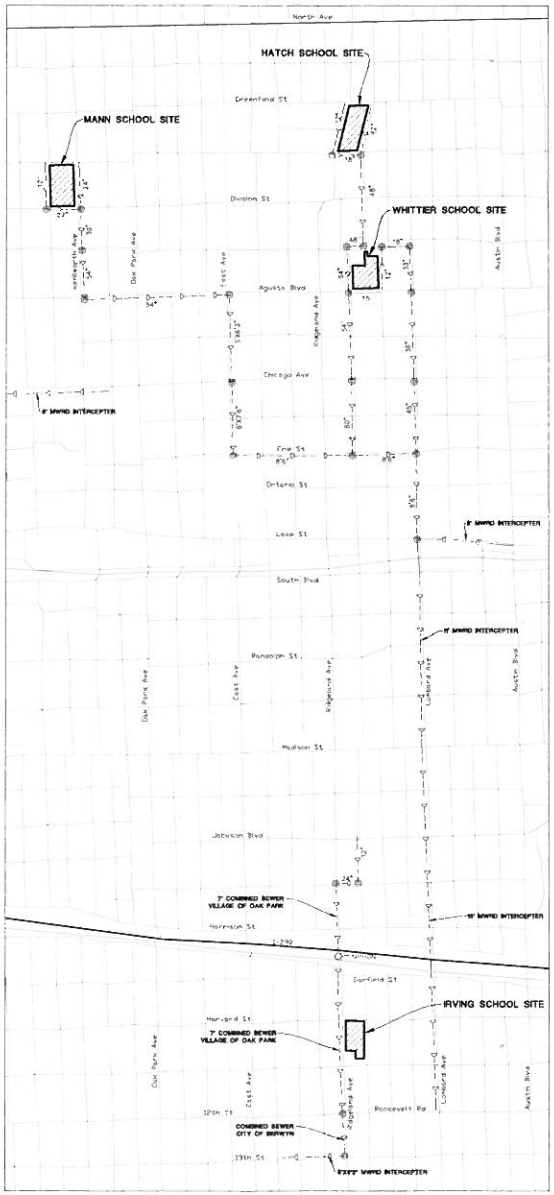
LOCATION MAP

1"=800'



BENCHMARKS

SOURCE BENCHMARK:

CITY OF CHICAGO BENCHMARK #578 LOCATED NEAR THE INTERSECTION OF LAKE STREET AND AUSTIN BLVD.

ELEVATION = 618.25
DATUM = NAVD88

SUBTRACT 579.88' FROM ALL ELEVATIONS TO CONVERT SITES TO CITY OF CHICAGO DATUM.

PROJECT:
HATCH ELEMENTARY SCHOOL

BENCHMARKS:

SITE BENCHMARK:
BURY BOLT OF FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF GREENFIELD & HARVEY.

ELEVATION = 622.20
DATUM = NAVD88

NOTES:

1. THE TOPOGRAPHIC SURVEY FOR THIS PROJECT IS BASED ON A FIELD SURVEY PREPARED BY W-T LAND SURVEYING, INC. AND WAS PERFORMED ON APRIL 20TH, 2012. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

PROJECT:
MANN ELEMENTARY SCHOOL

BENCHMARKS:

SITE BENCHMARK:

BENCHMARK #1 – NORTHWEST BOLT ON HYDRANT LOCATED AT THE NORTHWEST CORNER OF KENILWORTH BLVD. AND DIVISION STREET.

ELEVATION = 628.55
DATUM = NAVD88

BENCHMARK #2 – ARROW BOLT ON HYDRANT LOCATED ON THE SOUTH SIDE OF BERKSHIRE AT WOODBINE AVE.

ELEVATION = 628.86
DATUM = NAVD88

NOTES:

1. THE TOPOGRAPHIC SURVEY FOR THIS PROJECT IS BASED ON A FIELD SURVEY PREPARED BY W-T LAND SURVEYING, INC. AND WAS PERFORMED ON APRIL 25TH, 2010. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

PROJECT:
WHITTIER ELEMENTARY SCHOOL

BENCHMARKS:

SITE BENCHMARK:

BENCHMARK #1 – SET CROSS AT THE NORTHWEST CORNER OF BUILDING AS SHOWN.

ELEVATION = 620.37
DATUM = NAVD88

BENCHMARK #2 – RIM OF MANHOLE LOCATED NEAR THE SOUTHEAST CORNER OF PLAYGROUND AS SHOWN.

ELEVATION = 621.09
DATUM = NAVD88

NOTES:

1. THE TOPOGRAPHIC SURVEY FOR THIS PROJECT IS BASED ON A FIELD SURVEY PREPARED BY W-T LAND SURVEYING, INC. AND WAS PERFORMED ON JUNE 5TH, 2010. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.

MWRD GENERAL NOTES

METROPOLITAN WATER RECLAMATION
DISTRICT OF GREATER CHICAGO
LOCAL SEWER SYSTEMS SECTION
MWRD TYPICAL GENERAL NOTES

TYPICAL GENERAL NOTES

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK. (CALL 708-588-4059).
2. ELEVATION DATUM IS USGS.
3. NOT APPLICABLE - ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
4. NOT APPLICABLE - ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

PIPE MATERIAL SPEC.	JOINT SPEC.
VITRIFIED CLAY PIPE	
VCP C-700	C-425
VCP (NO-BELL) C-700	
JOINT	C-425
COLLAR	D-1284
CONCRETE PIPE C-14	C-443
RCP C-76	C-443
ACP C-428	D-1869
ABS SEWER PIPE	
SOLID WALL 8" DIA. SDR 23.5	
ABS D-2751	D-2751
ABS COMPOSITE/TRUSS PIPE	
8"-15" DIA	
ABS D-2680	D-2680
PVC GRAVITY SEWER PIPE	
8"-15" DIA. SDR 26	
D-3034	D-3212 OR D-2855
18"-27" DIA F/DY=46	
F-679	D-3212 OR D-2855
CISP A-74	C-564
DIP A-21.51	A-21.11

(NOTE: THE DISTRICT HAS APPROVED LESS COMMON PIPE MATERIALS ON A QUALIFIED BASIS IN ADDITION TO THOSE ABOVE. PLEASE CONTACT THE DISTRICT IF CONSIDERING USING PIPE NOT LISTED ABOVE.)

6. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS) REQUIRES STONE BEDDING WITH STONE 3/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
7. "RAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
   1. CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUSKY SADDLE OR HUB-TEE SADDLE.
   2. REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
   3. WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING USING "RAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
9. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION, OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CAN NOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
10. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
11. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

SPECIAL NOTES: EXCEPT FOR THE FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, DRAIN TILES/FIELD TILES/UNDERDRAINS/ PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED, AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

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Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: CIVIL NOTES & LEGENDS

Drawn by: SWL

Checked by: BJA

Date: Dec 21, 2012

Stamp: Exp 11.30.2013

North

C-100

Sheet Number

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

HATCH SCHOOL
SOIL EROSION CONTROL PLAN

Drawing

Drawn by: SWL

Checked by: BJA

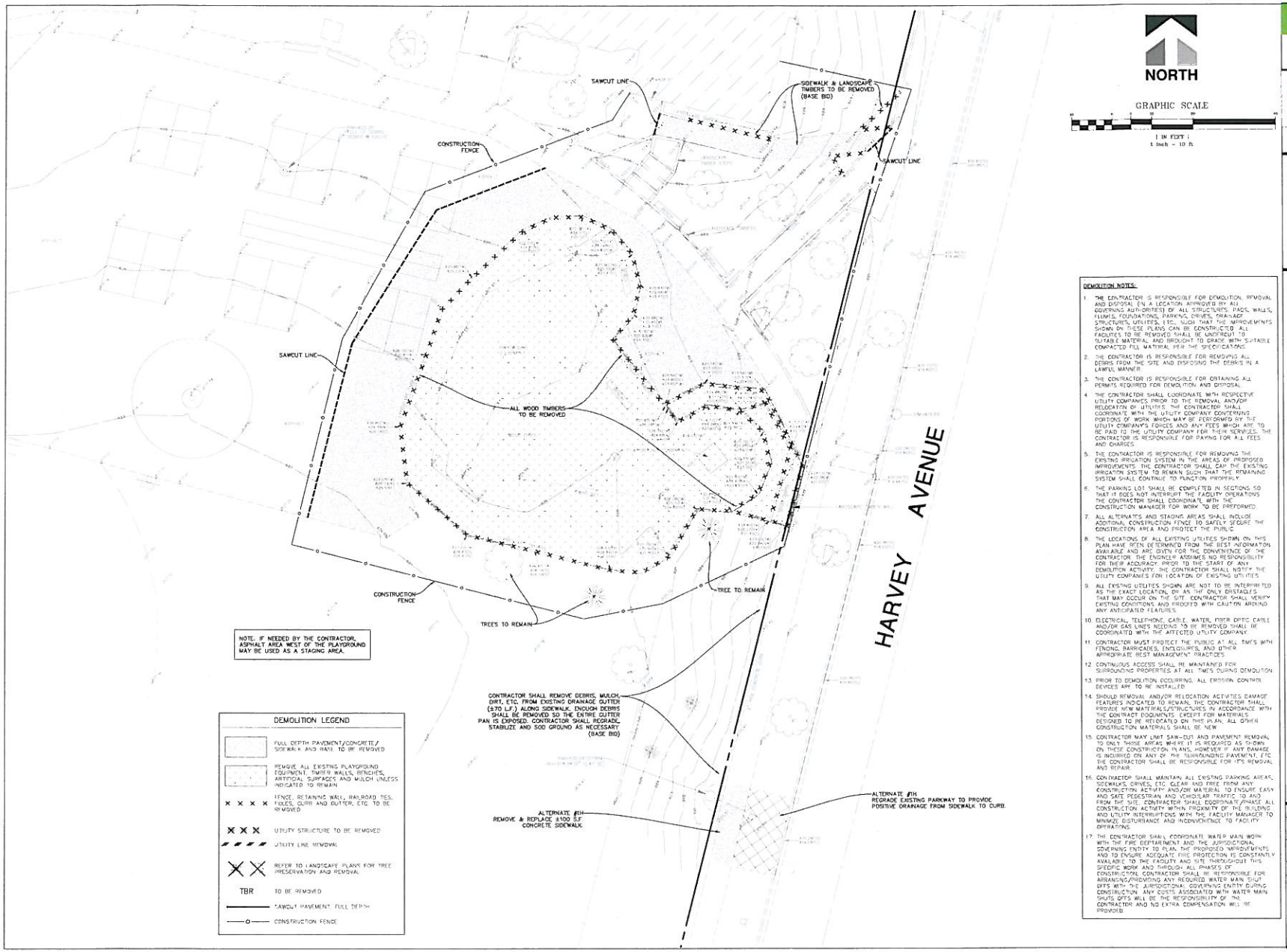
Date: Dec 21, 2012

Stamp Exp 11.30.2013

North

C-200H

Sheet Number



NORTH

GRAPHIC SCALE

1 IN FOOT
1 inch = 10 ft.

DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING FOR ALL FEES AND CHARGES.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
6. THE PARKING LOT SHALL BE COMPLETED IN SECTIONS SO THAT IT DOES NOT INTERRUPT THE FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER FOR WORK TO BE PREFORMED.
7. ALL ALTERNATES AND STAGING AREAS SHALL INCLUDE ADDITIONAL CONSTRUCTION FENCE TO SAFELY SECURE THE CONSTRUCTION AREA AND PROTECT THE PUBLIC.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATION OF EXISTING UTILITIES.
9. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
10. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES.
12. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION.
13. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
14. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FEATURES INDICATED TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN. ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
15. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. HOWEVER IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
16. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING AREAS, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIALS TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERRUPTIONS WITH THE FACILITY MANAGER TO MINIMIZE DISTURBANCE AND INCONVENIENCE TO FACILITY OPERATIONS.
17. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPARTMENT AND THE JURISDICTIONAL GOVERNING ENTITY TO PLAN THE PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE FACILITY AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE JURISDICTIONAL GOVERNING ENTITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUTS OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

HATCH SCHOOL
EXISTING CONDITONS AND DEMOLITION PLAN

Drawing

Drawn by: SWL

Checked by: BJA

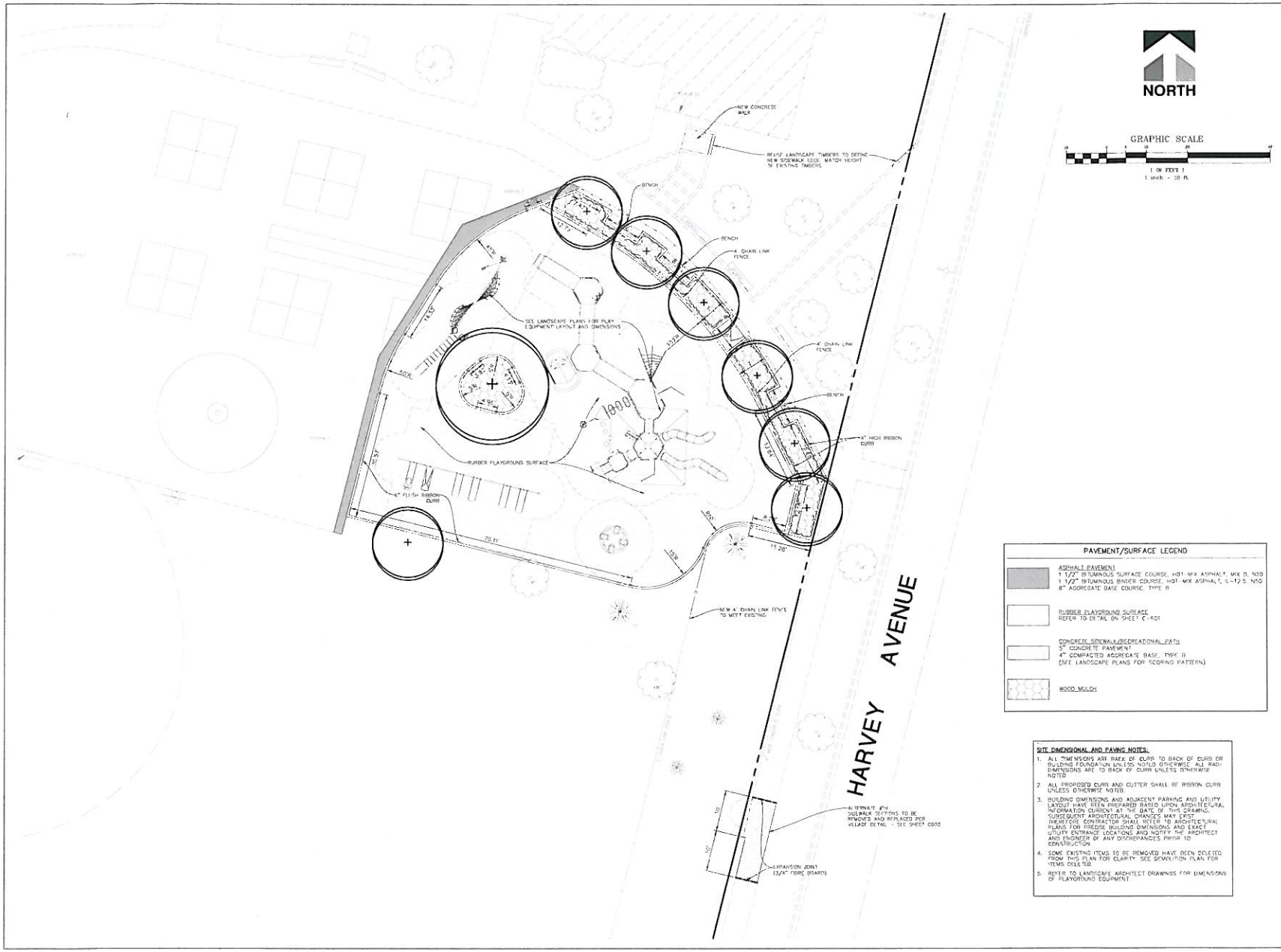
Date: Dec 21, 2012

Stamp: Exp 11.30.2013

North

C-201H

Sheet Number



PAVEMENT/SURFACE LEGEND

ASPHALT PAVEMENT
1 1/2" BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50
1 1/2" BITUMINOUS BINDER COURSE, HOT-MIX ASPHALT, IL-12.5, N50
8" AGGREGATE BASE COURSE, TYPE B

RUBBER PLAYGROUND SURFACE
REFER TO DETAIL ON SHEET C-601

CONCRETE SIDEWALK/RECREATIONAL PATH
5" CONCRETE PAVEMENT
4" COMPACTED AGGREGATE BASE, TYPE B
(SEE LANDSCAPE PLANS FOR SCORING PATTERN)

WOOD MULCH

SITE DIMENSIONAL AND PAVING NOTES:

1. ALL DIMENSIONS ARE BACK OF CURB TO BACK OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE. ALL RADI DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE RIBBON CURB UNLESS OTHERWISE NOTED.
3. BUILDING DIMENSIONS AND ADJACENT PARKING AND UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE, CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
5. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR DIMENSIONS OF PLAYGROUND EQUIPMENT.

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

HATCH SCHOOL
SITE DIMENSION AND PAVING PLAN

Drawing

Drawn by: SWL

Checked by: BJA

Date: Dec 21, 2012

Stamp: Exp 11.30.2013

North

C-202H

Sheet Number

GRADING NOTES:

1. ALL WORK PROPOSED SHALL BE IN ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE, LATEST EDITION.
2. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
3. MEET EXISTING GRADE AT PROPERTY LIMITS AND ALL UNDISTURBED AREAS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.

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Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: HATCH SCHOOL GRADING PLAN

Drawn by: DH

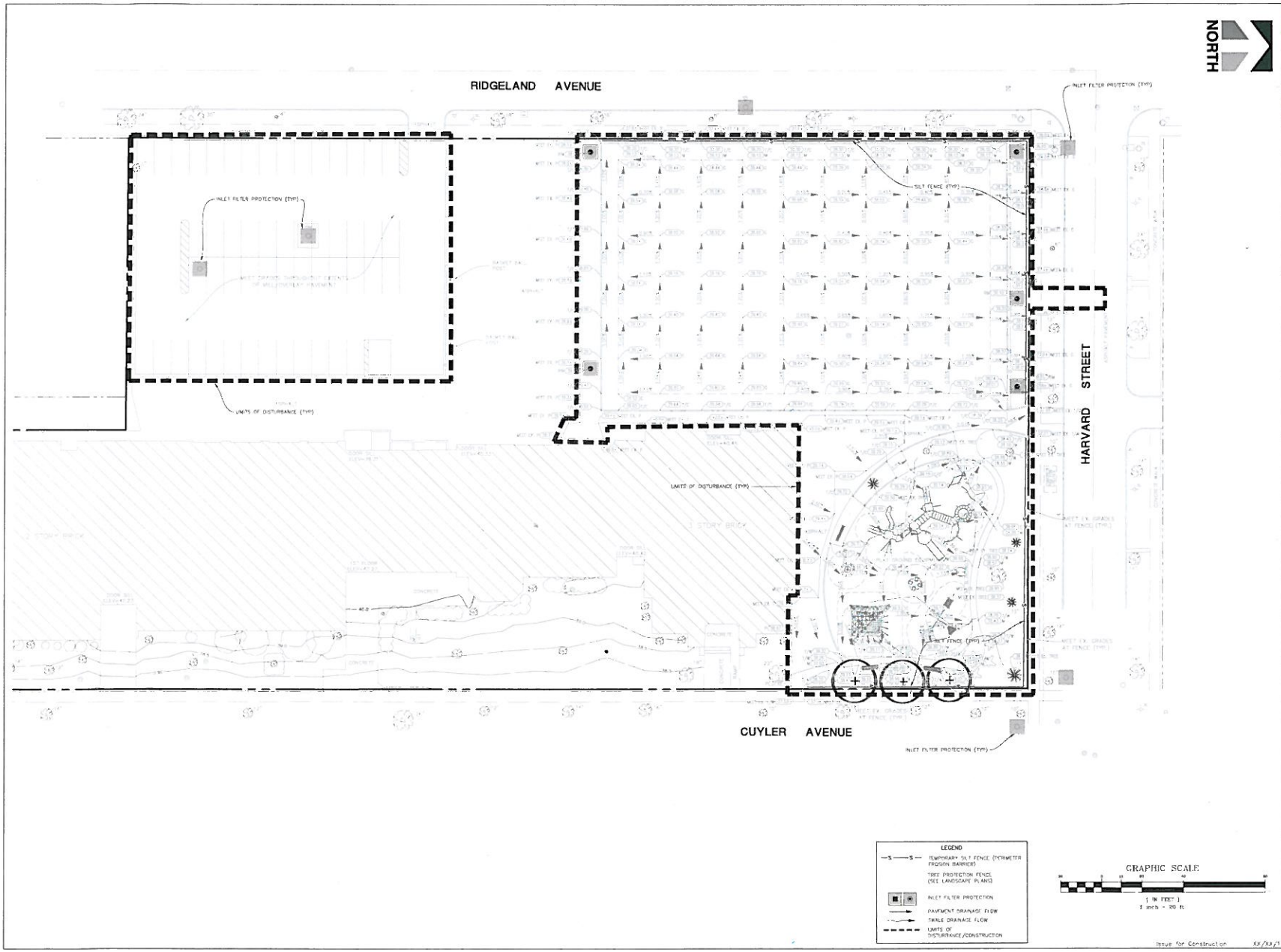
Checked by: BJA

Date: Dec 21, 2012

Stamp: Exp 11.30.2013

North

Sheet Number: C-203H



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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

IRVING SCHOOL SOIL EROSION CONTROL PLAN

Drawing

Drawn by: SWL

Checked by: BJA

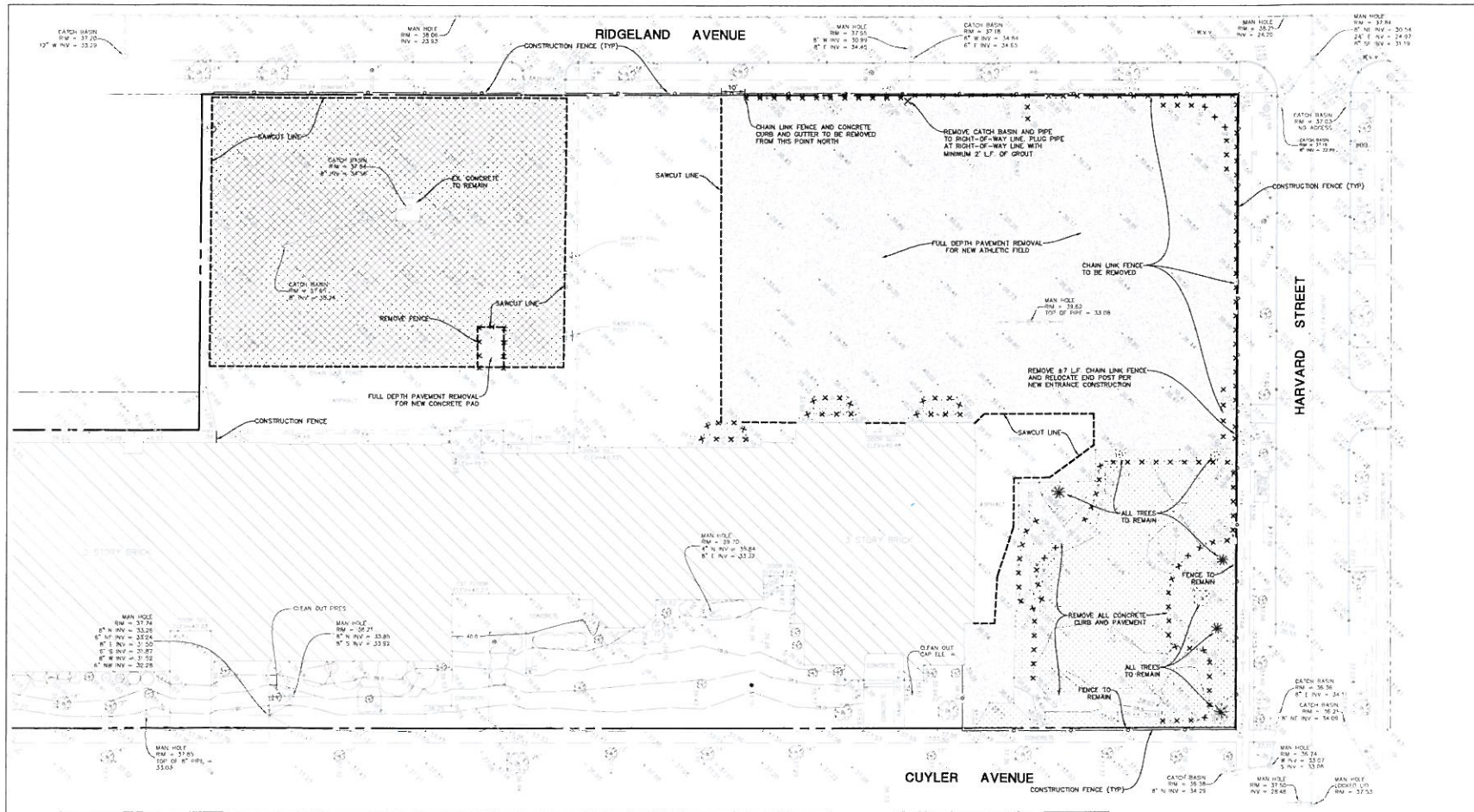
Date: Dec 21, 2012

Stamp Exp 11.30.2013

NORTH

C-3001

Sheet Number



DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND DISPOSAL ON A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING FOR ALL FEES AND CHARGES.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
6. THE PARKING LOT SHALL BE COMPLETED IN SECTIONS SO THAT IT DOES NOT INTERRUPT THE FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER FOR WORK TO BE PERFORMED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDINGS.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATION OF EXISTING UTILITIES.
9. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
10. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES.
12. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION.
13. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
14. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FEATURES INDICATED TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
15. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. HOWEVER IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
16. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING AREAS, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE/PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERRUPTIONS WITH THE FACILITY MANAGER TO MINIMIZE DISTURBANCE AND INCONVENIENCE TO FACILITY OPERATIONS.
17. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPTARTMENT AND THE JURISDICTIONAL GOVERNING ENTITY TO PLAN THE PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE FACILITY AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE JURISDICTIONAL GOVERNING ENTITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUTS OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.

DEMOLITION LEGEND

- FULL DEPTH PAVEMENT/CONCRETE/ SIDEWALK AND BASE TO BE REMOVED
- REMOVE ALL EXISTING PLAYGROUND EQUIPMENT, TIMBER WALLS, BENCHES, ARTIFICIAL SURFACES AND MULCH UNLESS INDICATED TO REMAIN
- MILL 2" ASPHALT SURFACE
- × × × × FENCE, RETAINING WALL, RAILROAD TIES, POLES, CURB AND GUTTER, ETC. TO BE REMOVED
- ✕✕✕ UTILITY STRUCTURE TO BE REMOVED
- UTILITY LINE REMOVAL
- REFER TO LANDSCAPE PLANS FOR TREE PRESERVATION AND REMOVAL
- TBR TO BE REMOVED
- SAWCUT PAVEMENT, FULL DEPTH
- —O— CONSTRUCTION FENCE

NORTH

GRAPHIC SCALE

1 inch = 20 ft

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

IRVING SCHOOL
EXISTING CONDITONS AND DEMOLITION PLAN

Drawing

Drawn by: SWL

Checked by: BJA

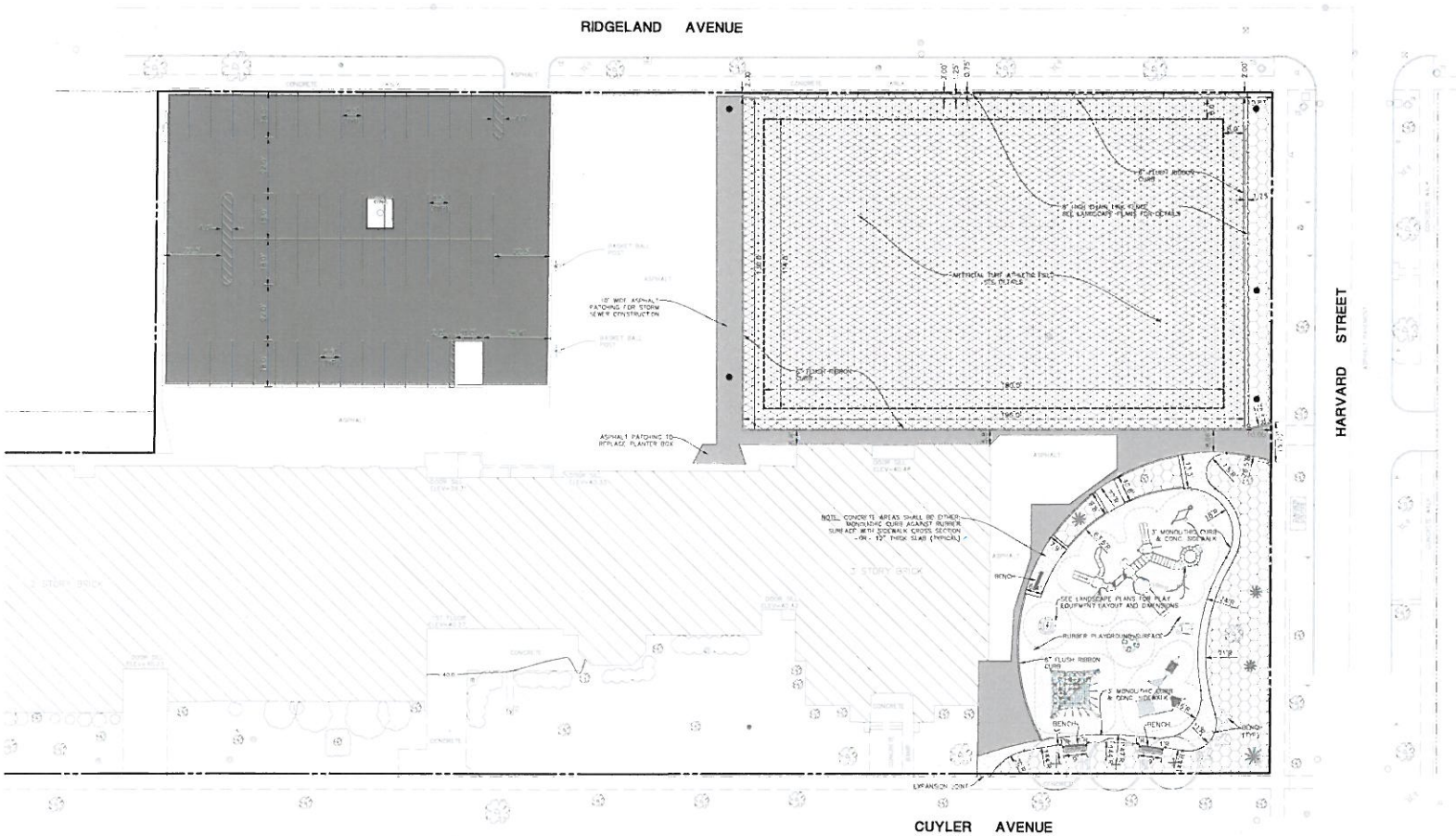
Date: Dec 21, 2012

Stamp Exp 11.30.2013

NORTH

C-301I

Sheet Number



PAVEMENT/SURFACE LEGEND

ASPHALT PAVEMENT
1 1/2" BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50
1 1/2" BITUMINOUS BINDER COURSE, HOT-MIX ASPHALT, IL-12.5, N50
8" AGGREGATE BASE COURSE, TYPE B

ASPHALT SURFACE
2" BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50

ARTIFICIAL TURF SURFACE
REFER TO DETAIL ON SHEET C-604

RUBBER PLAYGROUND SURFACE
REFER TO DETAIL ON SHEET C-601

CONCRETE SIDEWALK/RECREATIONAL PATH
5" CONCRETE PAVEMENT
4" COMPACTED AGGREGATE BASE, TYPE B
(SEE LANDSCAPE PLAN FOR SCORING PATTERN)

WOOD MULCH

NOTE:
CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION WITH FIELD TURF REPRESENTATIVE AND INSTALLER.

SITE DIMENSIONAL AND PAVING NOTES:

1. ALL DIMENSIONS ARE BACK OF CURB TO BACK OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE. ALL RADI DIMENTIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE RIBBON CURB UNLESS OTHERWISE NOTED.
3. BUILDING DIMENSIONS AND ADJACENT PARKING AND UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE, CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
5. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR DIMENSIONS OF PLAYGROUND EQUIPMENT.

NORTH

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

IRVING SCHOOL
SITE DIMENSION AND PAVING PLAN

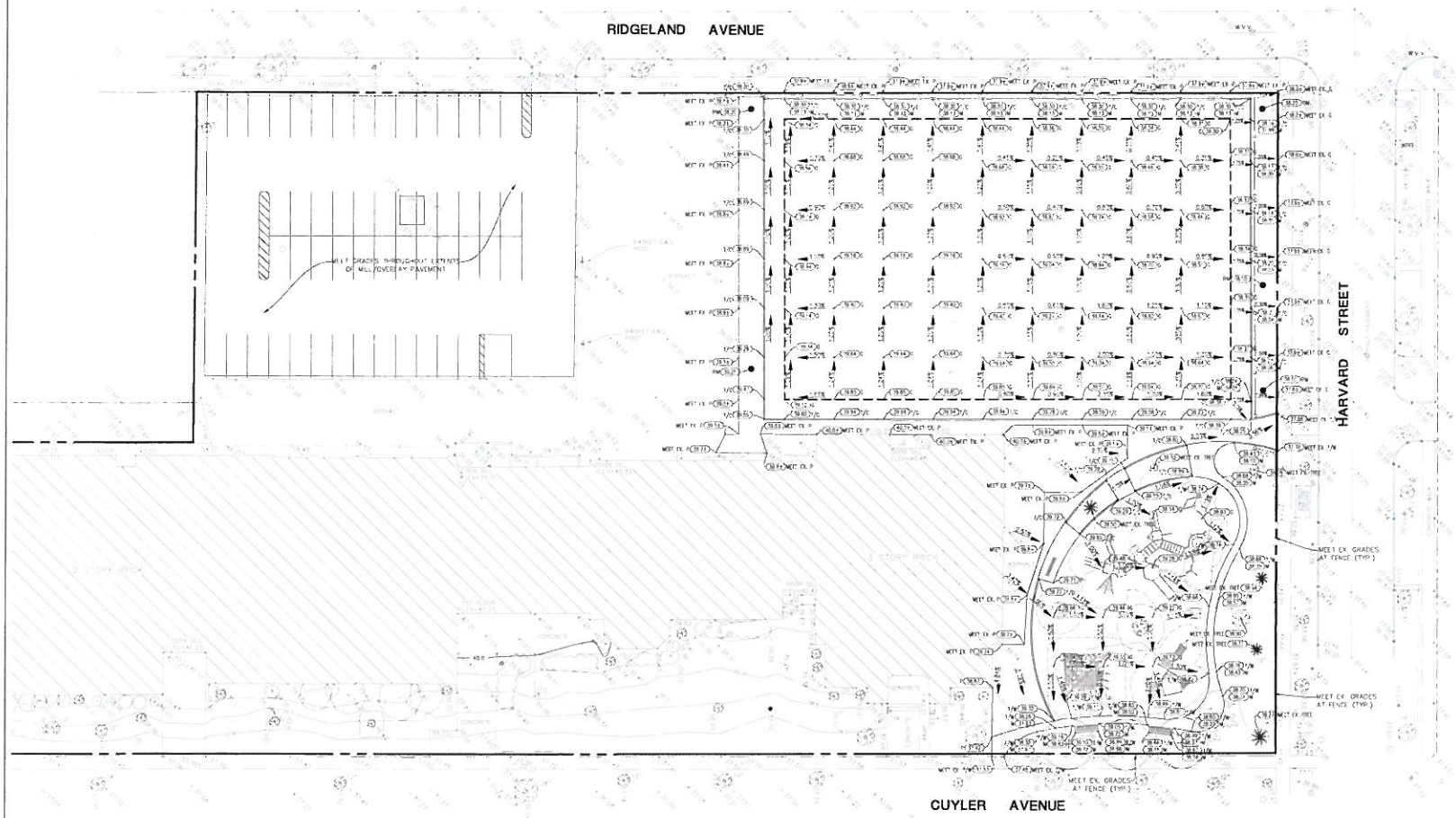
Drawing

Drawn by: SWL
Checked by: BJA
Date: Dec 21, 2012
Stamp: Exp 11.30.2013

North

C-302I

Sheet Number



GRADING NOTES:

1. ALL WORK PROPOSED SHALL BE IN ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE, LATEST EDITION.
2. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE AREAS SHALL BE 2.0% MAXIMUM IN ANY DIRECTION.
3. MEET EXISTING GRADE AT PROPERTY LIMITS AND ALL UNDISTURBED AREAS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.

NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft

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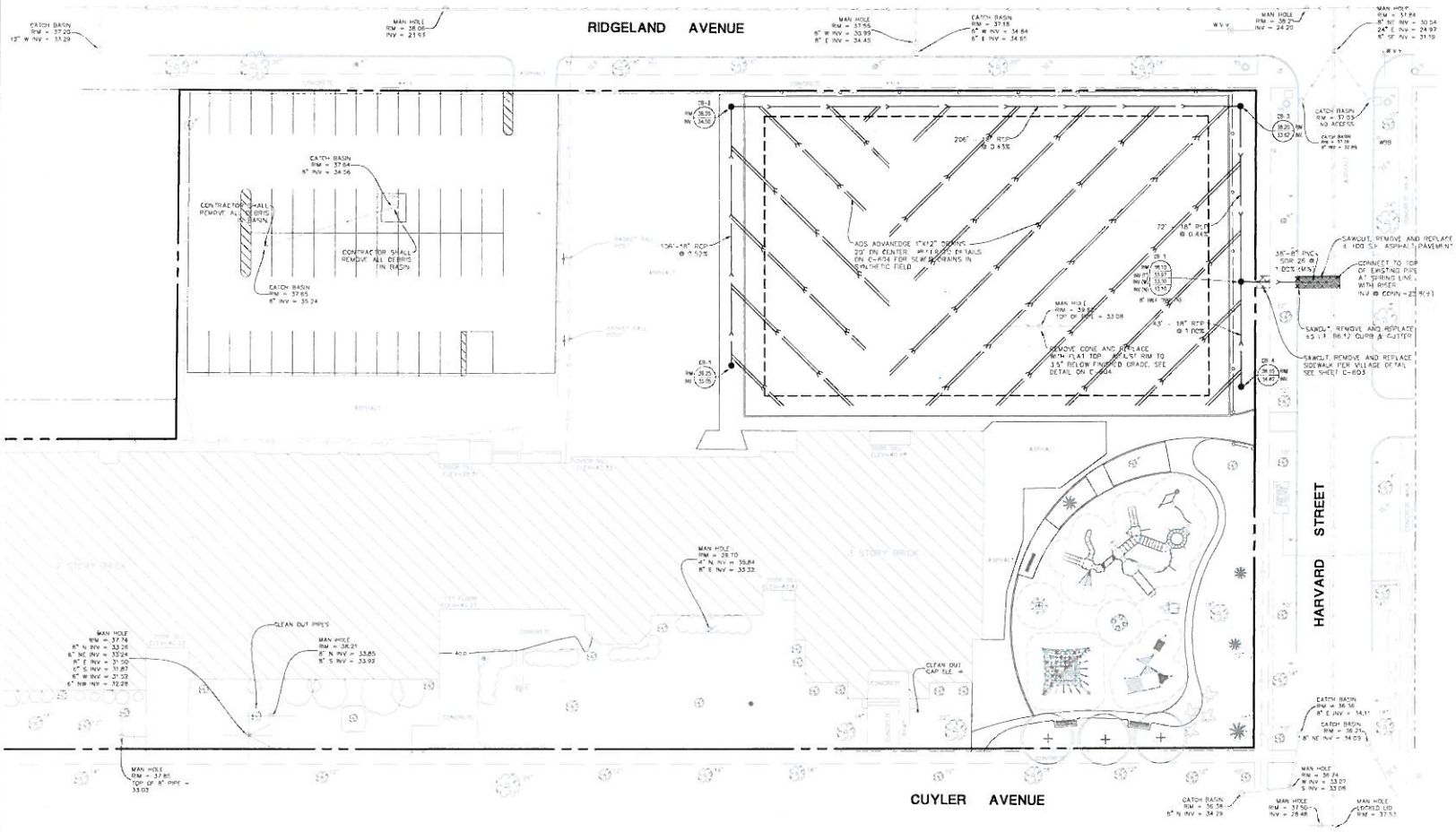
Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: IRVING SCHOOL GRADING PLAN

Drawn by: DH
Checked by: BJA
Date: Dec 21, 2012
Stamp: Exp 11.30.2013

Sheet Number: C-303I



UTILITY NOTES:

1. ALL UTILITY DIMENSIONS ARE TO OUTSIDE OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
4. EXISTING ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL EXISTING UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER OR WATER MAIN LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
6. LIGHTING AND UNDERGROUND CABLE IF SHOWN ON PLANS ARE FOR APPROXIMATE LOCATION ONLY.
7. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED GRADES AS INDICATED ON PLANS.
8. CONTRACTOR TO VERIFY LOCATION (ROUTING), SIZES, AND ELEVATION @ ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL COORDINATE WITH VILLAGE ENGINEER ON RECENT IMPROVEMENTS MADE TO HARVARD AVENUE.
10. ALL STORM SEWER IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE MWRD STANDARD SPECIFICATIONS.
11. CONTRACTOR SHALL HAVE AN ILLINOIS LICENSED LAND SURVEYOR COLLECT AS BUILT INFORMATION AS REQUIRED BY THE MWRD.

NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 40 ft

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

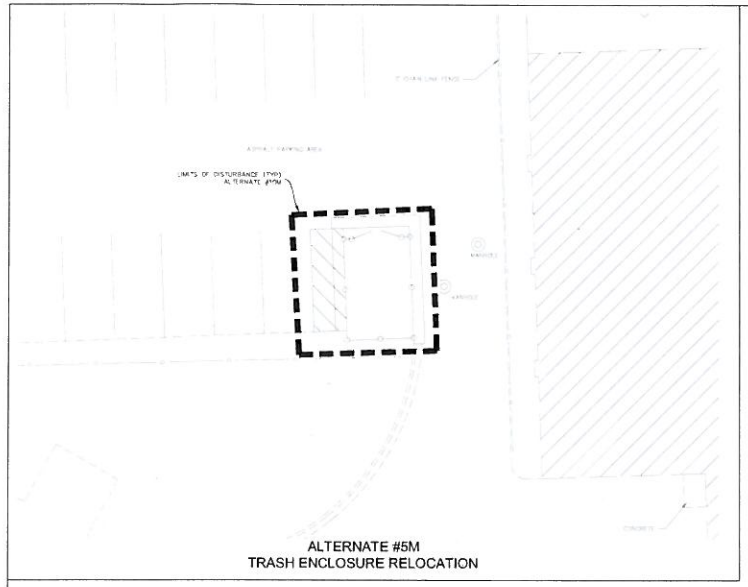
IRVING SCHOOL UTILITY PLAN

Drawing

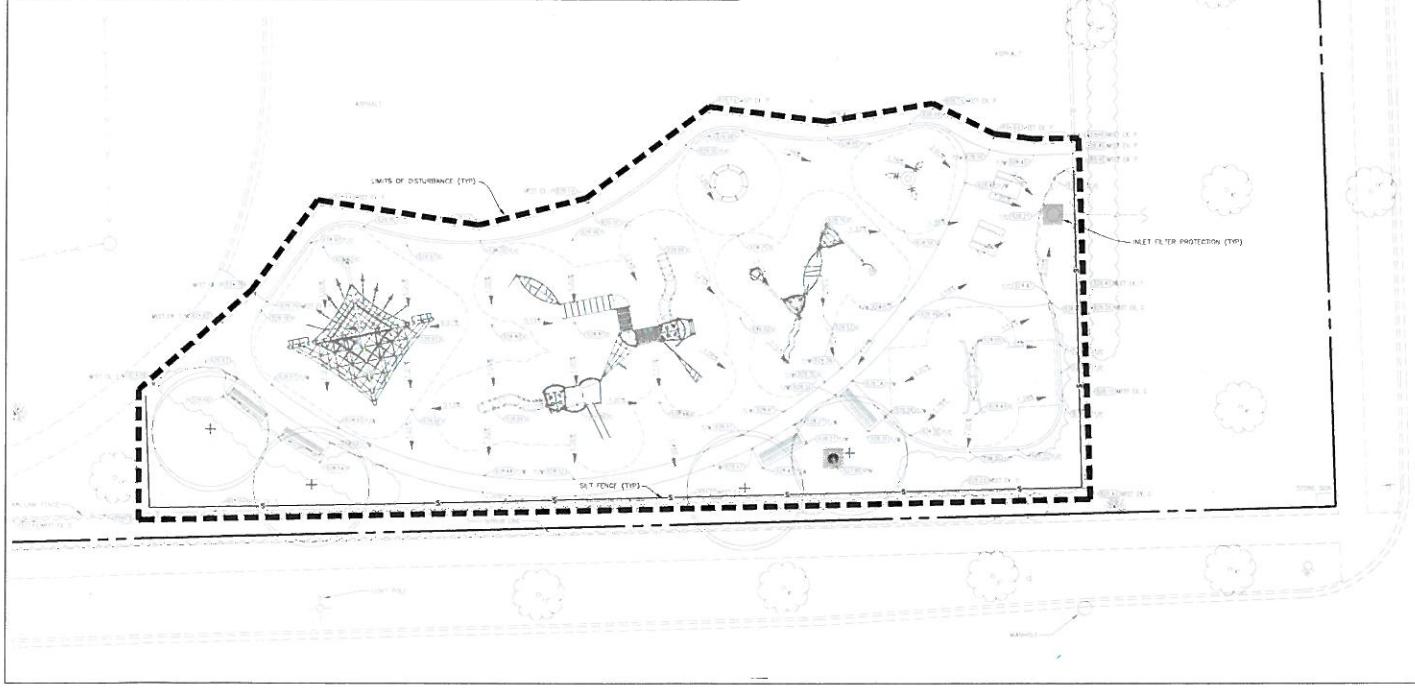
Drawn by: SWL
Checked by: BJA
Date: April 27, 2012
Stamp: Exp 11.30.2012

North

Sheet Number
C-304I



ALTERNATE #5M
TRASH ENCLOSURE RELOCATION



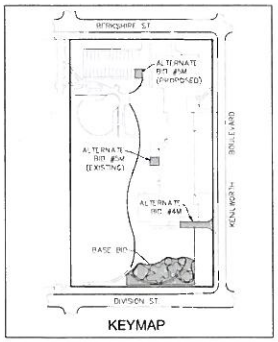
NORTH

GRAPHIC SCALE

1 (IN FEET)
1 inch = 10 ft.

LEGEND

- TEMPORARY SILT FENCE (PERIMETER EROSION BARRIER)
- TREE PROTECTION FENCE (SEE LANDSCAPE PLANS)
- INLET FILTER PROTECTION
- PAVEMENT DRAINAGE FLOW
- SWALE DRAINAGE FLOW
- LIMITS OF DISTURBANCE/CONSTRUCTION



KEYMAP

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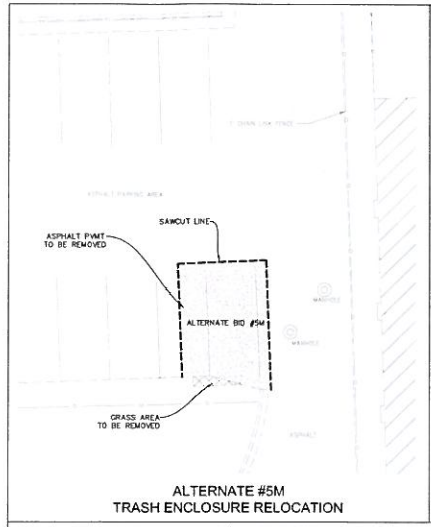
Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: MANN SCHOOL SOIL EROSION CONTROL PLAN

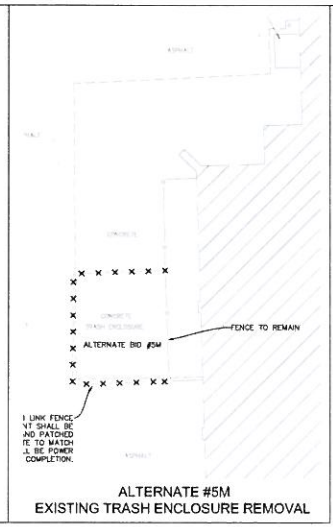
Drawn by: SWL
Checked by: BJA
Date: Dec 21, 2012
Stamp: Exp 11.30.2013

North

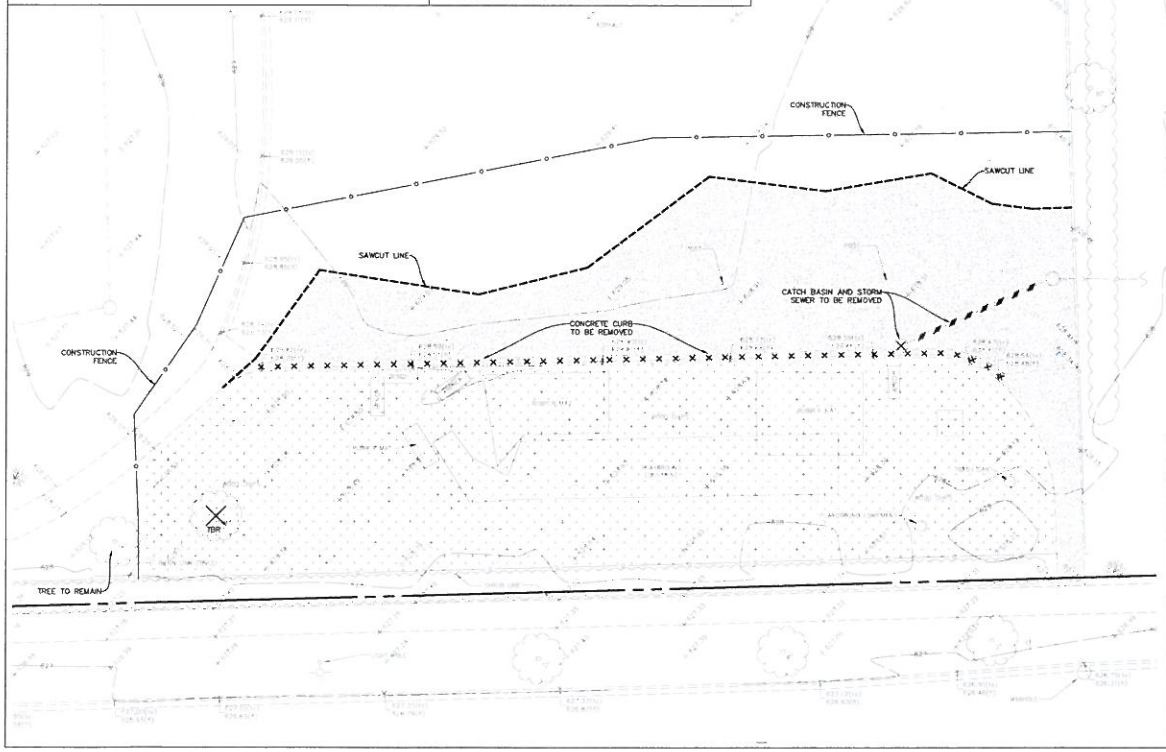
Sheet Number: C-400M



ALTERNATE #5M
TRASH ENCLOSURE RELOCATION



ALTERNATE #5M
EXISTING TRASH ENCLOSURE REMOVAL

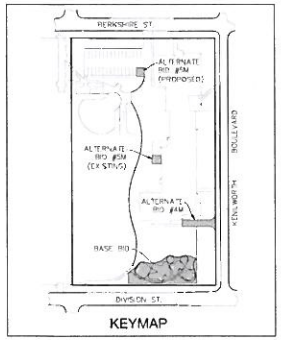


DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, PLUMES, FOUNDATIONS, PARKING DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL FACILITES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING FOR ALL FEES AND CHARGES.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
6. THE PARKING LOT SHALL BE COMPLETED IN SECTIONS SO THAT IT DOES NOT INTERRUPT THE FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER FOR WORK TO BE PERFORMED.
7. ALL ALTERNATES AND STAGING AREAS SHALL INCLUDE ADDITIONAL CONSTRUCTION FENCE TO SAFELY SECURE THE CONSTRUCTION AREA AND PROTECT THE PUBLIC.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATION OF EXISTING UTILITIES.
9. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
10. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES.
12. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION.
13. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
14. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FEATURES INDICATED TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN. ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
15. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS. HOWEVER, IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
16. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING AREAS, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE/PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERRUPTIONS WITH THE FACILITY MANAGER TO MINIMIZE DISTURBANCE AND INCONVENIENCE TO FACILITY OPERATIONS.
17. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPARTMENT AND THE JURISDICTIONAL GOVERNING ENTITY TO PLAN THE PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE FACILITY AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE JURISDICTIONAL GOVERNING ENTITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUTS OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.

DEMOLITION LEGEND

	FULL DEPTH PAVEMENT/CONCRETE / SIDEWALK AND BASE TO BE REMOVED
	REMOVE ALL EXISTING PLAYGROUND EQUIPMENT, TIMBER WALLS, BENCHES, ARTIFICIAL SURFACES AND MULCH UNLESS INDICATED TO REMAIN
× × × ×	FENCE, RETAINING WALL, RAILROAD TIES POLES, CURB AND GUTTER, ETC. TO BE REMOVED
× × ×	UTILITY STRUCTURE TO BE REMOVED
	UTILITY LINE REMOVAL
	REFER TO LANDSCAPE PLANS FOR TREE PRESERVATION AND REMOVAL
TBR	TO BE REMOVED
	SAWCUT PAVEMENT, FULL DEPTH
—o—	CONSTRUCTION FENCE



KEYMAP

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Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: MANN SCHOOL
EXISTING CONDITONS AND DEMOLITION PLAN

Drawn by: SWL

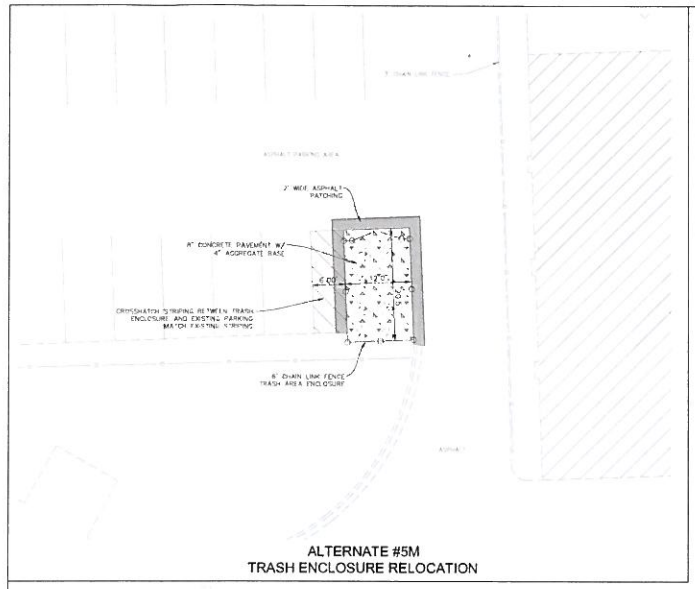
Checked by: BJA

Date: Dec 21, 2012

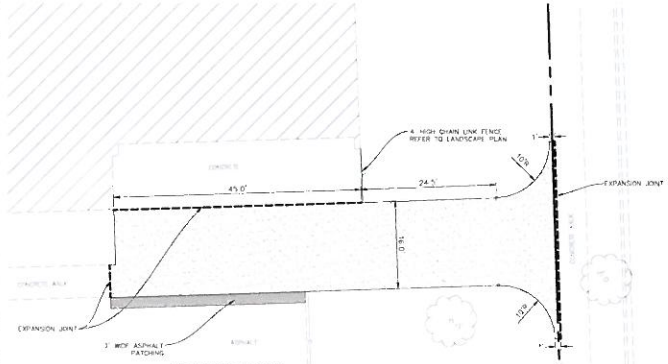
Stamp: Exp 11.30.2013

North

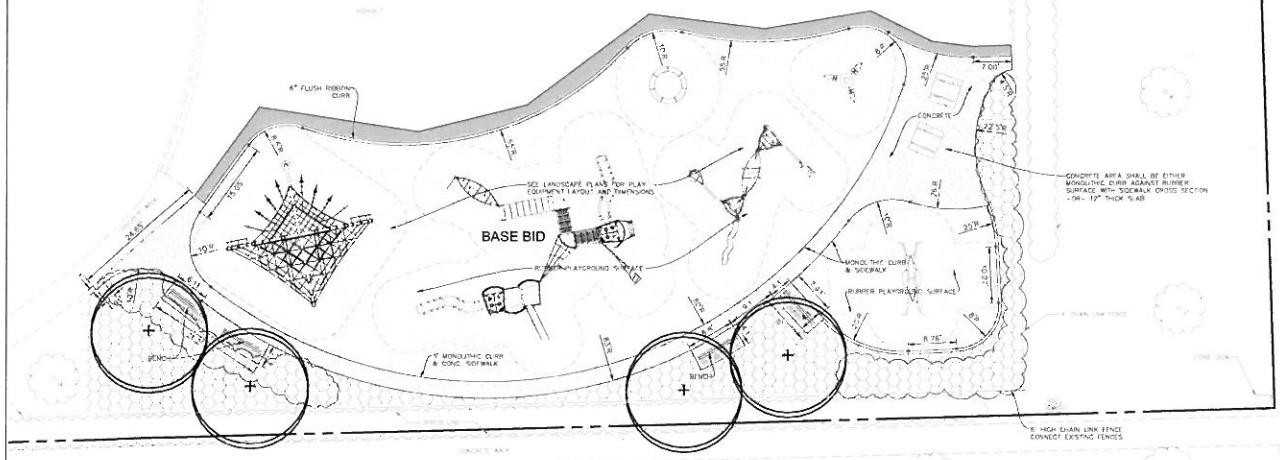
Sheet Number: C-401M



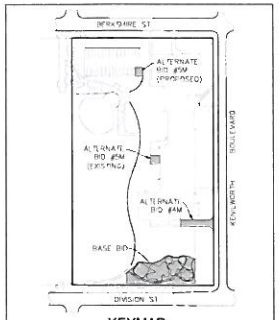
ALTERNATE #5M
TRASH ENCLOSURE RELOCATION



ALTERNATE #4M
NEW ENTRY WALK



NOTE:
ANY LOCATION WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR STRUCTURE SHALL REQUIRE A 3/4" FIBRE EXPANSION BOARD AT THE JOINT.



SITE DIMENSIONAL AND PAVING NOTES:

1. ALL DIMENSIONS ARE BACK OF CURB TO BACK OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE. ALL RADII DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE RIBBON CURB UNLESS OTHERWISE NOTED.
3. BUILDING DIMENSIONS AND ADJACENT PARKING AND UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
5. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR DIMENSIONS OF PLAYGROUND EQUIPMENT.

PAVEMENT/SURFACE LEGEND

- ASPHALT PAVEMENT
  1 1/2" BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50
  1 1/2" BITUMINOUS BINDER COURSE, HOT-MIX ASPHALT, IL-12.5, N50
  8" AGGREGATE BASE COURSE, TYPE B
- RUBBER PLAYGROUND SURFACE
  REFER TO DETAIL ON SHEET C-601
- CONCRETE SIDEWALK/RECREATIONAL PATH
  5" CONCRETE PAVEMENT
  4" COMPACTED AGGREGATE BASE, TYPE B
  (SEE LANDSCAPE PLANS FOR SCORING PATTERN)
- WOOD MULCH

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

MANN SCHOOL
SITE DIMENSION AND PAVING PLAN

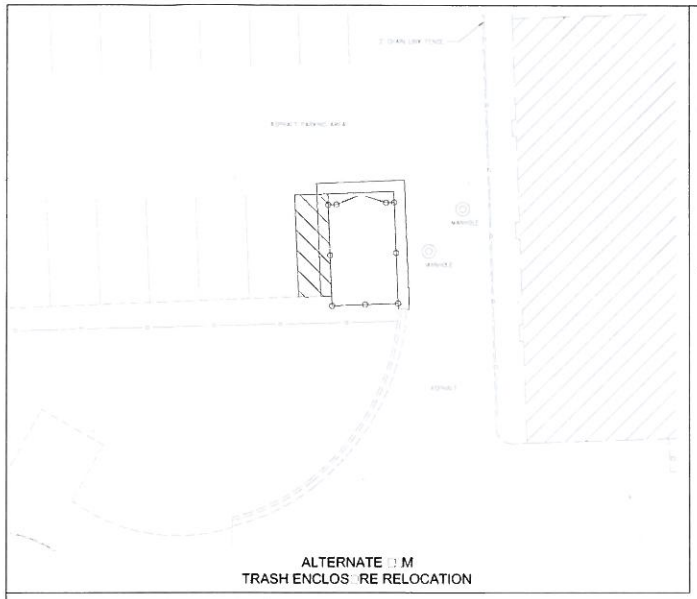
Drawing

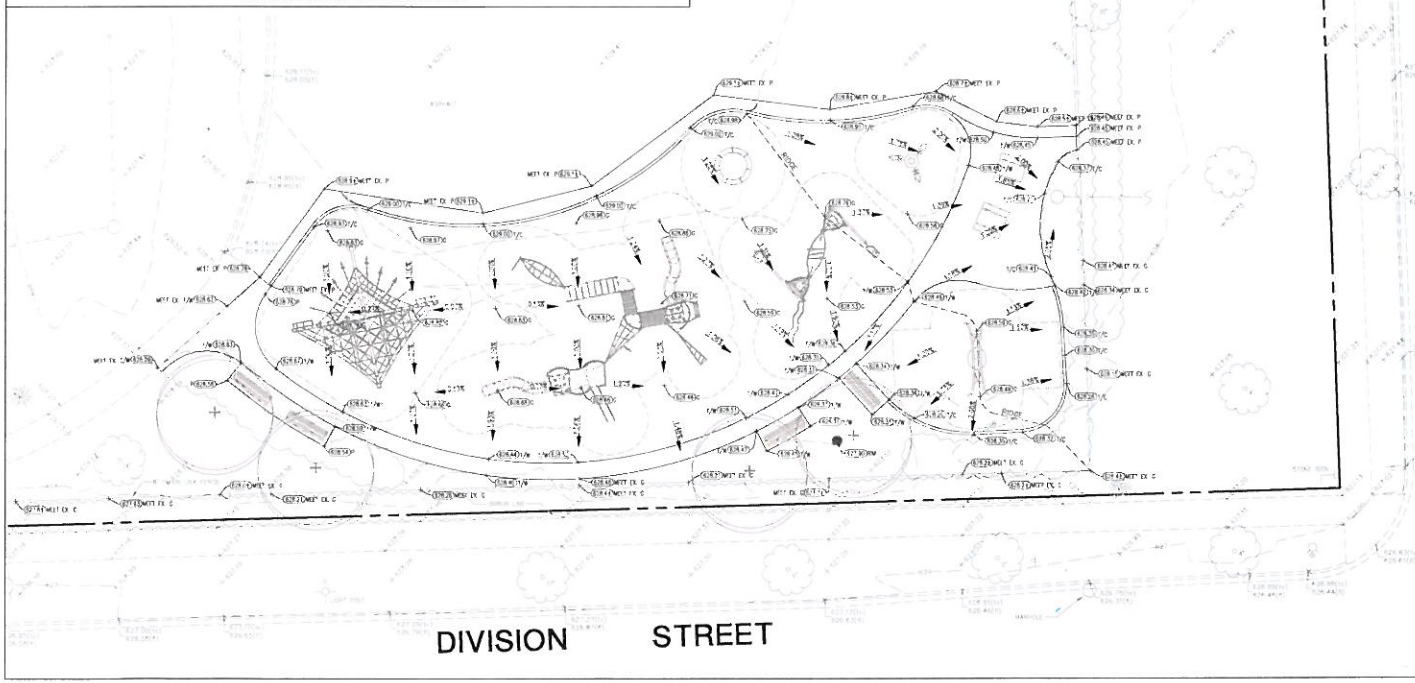
Drawn by: SWL
Checked by: BJA
Date: Dec 21, 2012
Stamp: Exp 11.30.2013

North

C-402M

Sheet Number





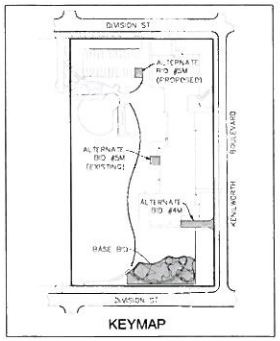
NORTH

GRAPHIC SCALE

1 inch = 10 ft

GRADING NOTES:

1. ALL WORK PROPOSED SHALL BE IN ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE, LATEST EDITION.
2. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
3. MEET EXISTING GRADE AT PROPERTY LIMITS AND ALL UNDISTURBED AREAS UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.



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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

MANN SCHOOL GRADING PLAN

Drawing

Drawn by: DH

Checked by: BJA

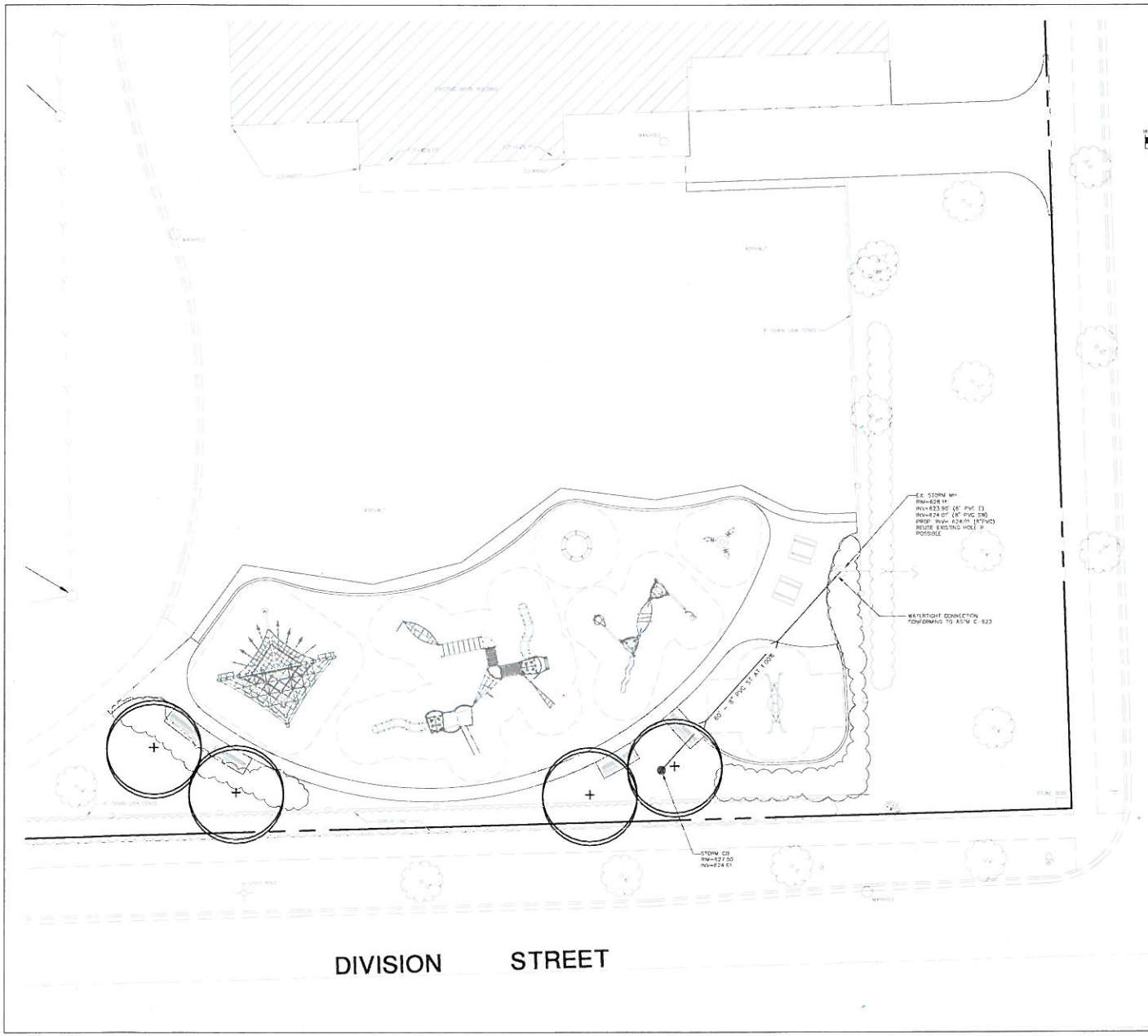
Date: Dec 21, 2012

Stamp: Exp 11.30.2013

North

C-□03M

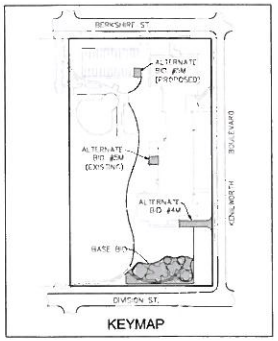
Sheet Number



NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.



KEYMAP

UTILITY NOTES:

1. ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL CONTACT JULIE (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
3. EXISTING ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES, IF SHOWN, ARE APPROXIMATE. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL EXISTING UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
4. CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER OR WATER MAIN LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
5. LIGHTING AND UNDERGROUND CABLE, IF SHOWN ON PLANS, ARE FOR APPROXIMATE LOCATION ONLY.
6. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED GRADES AS INDICATED ON PLANS.
7. ALL STORM SEWER IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE MWRD STANDARD SPECIFICATIONS.
8. CONTRACTOR SHALL HAVE AN ILLINOIS LICENSED LAND SURVEYOR COLLECT AS BUILT INFORMATION AS REQUIRED BY THE MWRD.

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Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: MANN SCHOOL UTILITY PLAN

Drawn by: SWL

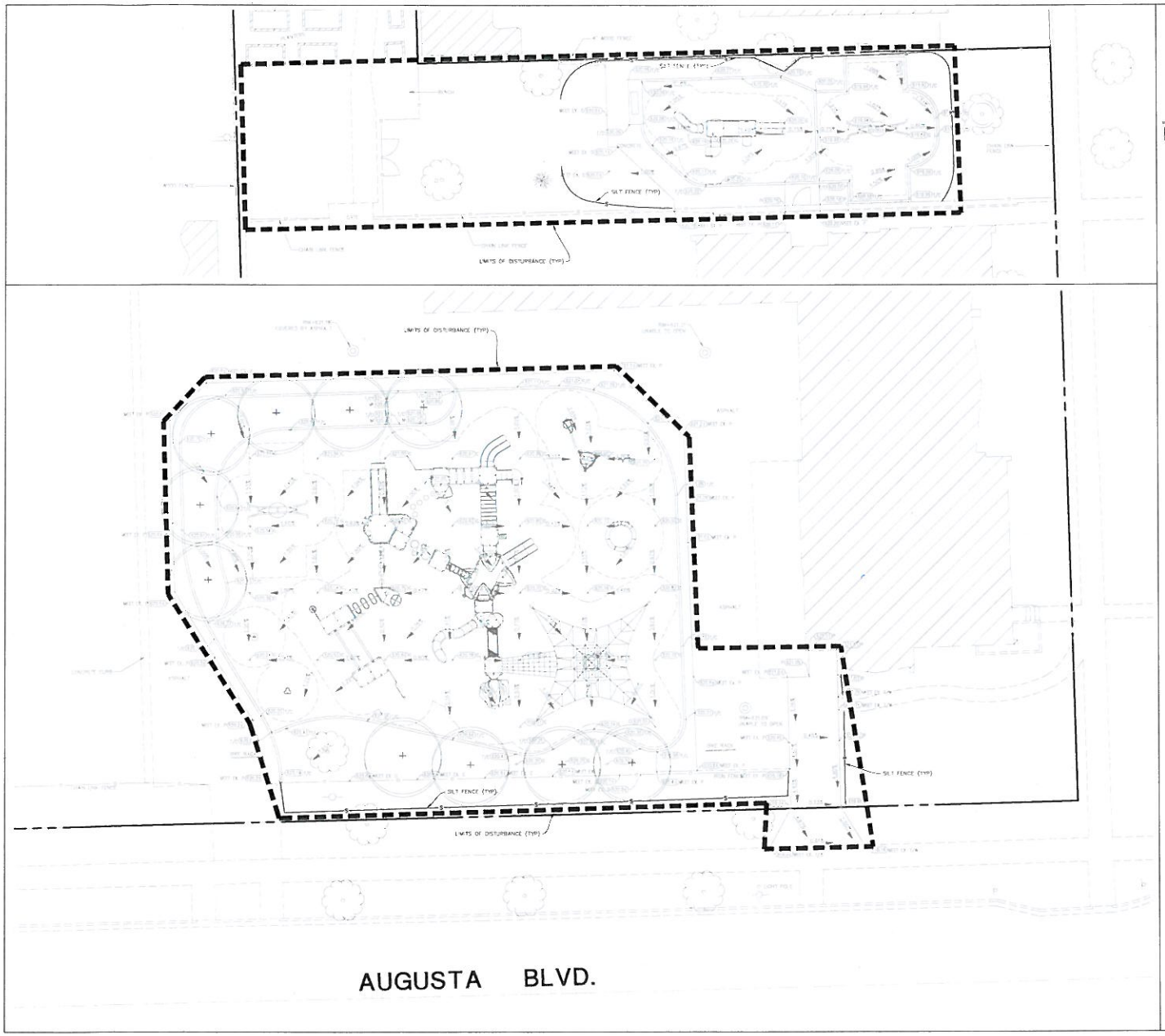
Checked by: BJA

Date: Dec 21, 2012

Stamp Exp 11.30.2012

North

Sheet Number: C-404M



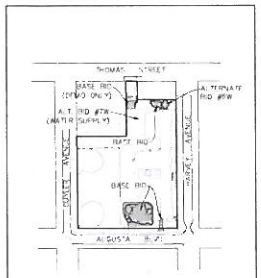
NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

LEGEND

- TEMPORARY SILT FENCE (PERIMETER EROSION BARRIER)
- TREE PROTECTION FENCE (SEE LANDSCAPE PLANS)
- INLET FILTER PROTECTION
- PAVEMENT DRAINAGE FLOW
- SWALE DRAINAGE FLOW
- LIMITS OF DISTURBANCE/CONSTRUCTION



KEYMAP

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

WHITTIER SCHOOL SOIL EROSION CONTROL PLAN

Drawing

Drawn by: SWL

Checked by: BJA

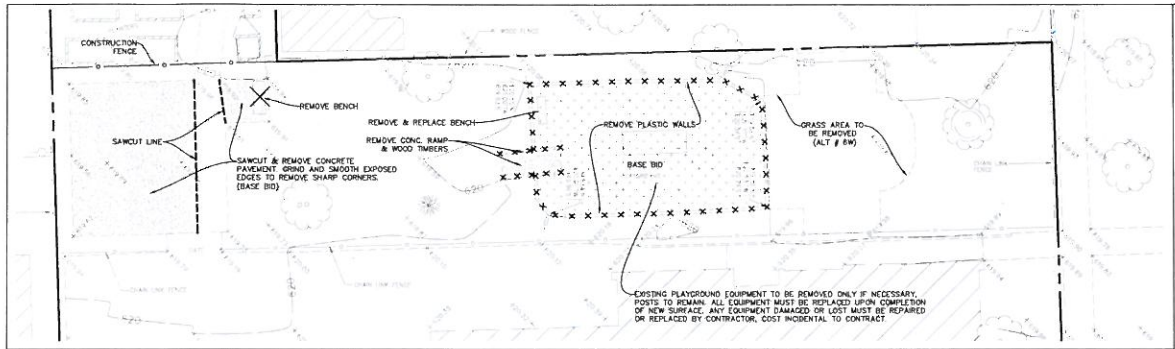
Date: Dec 21, 2012

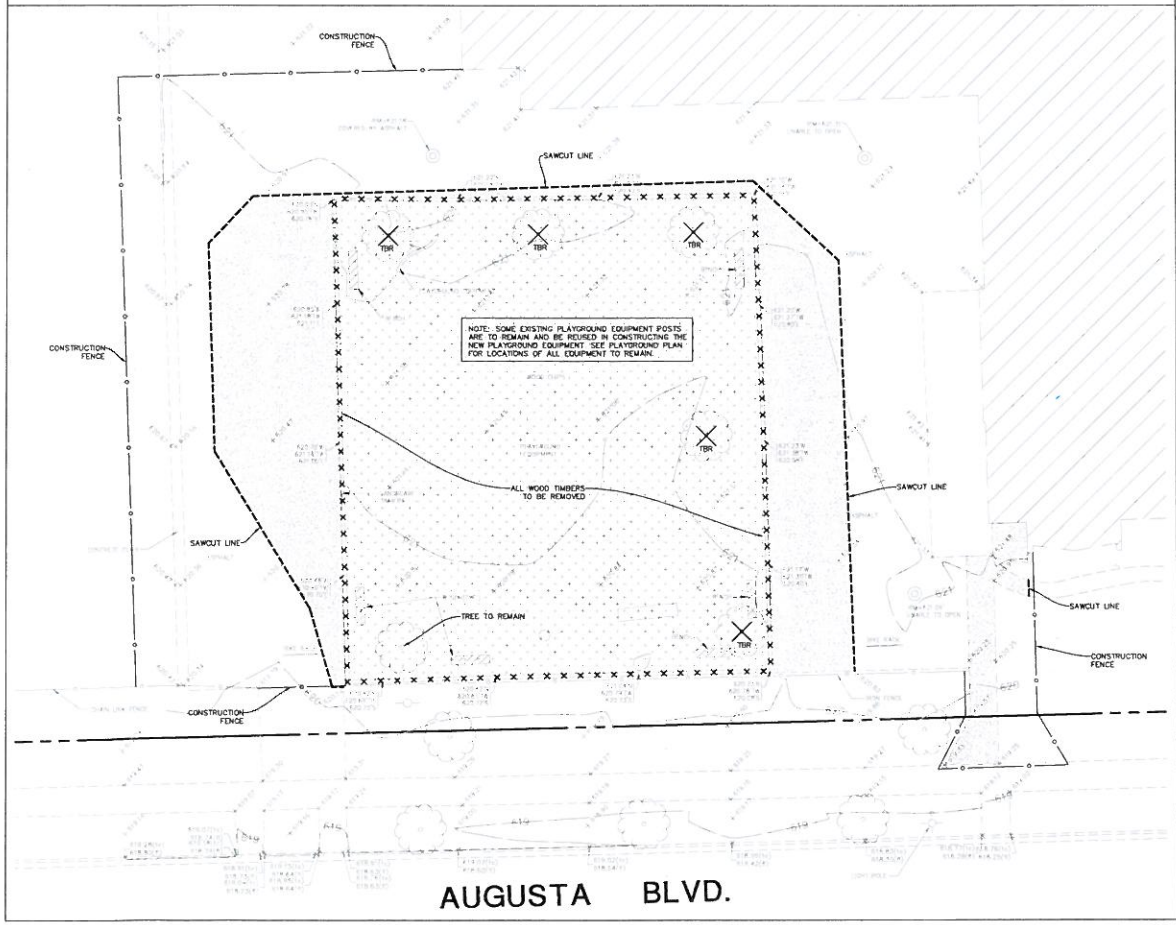
Stamp Exp 11.30.2013

North

C-500W

Sheet Number





NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

MWRD NOTES:

1. EXCEPT FOR FOUNDATION/ROOFING DRAINS PROVIDED TO PROTECT BUILDINGS, DRAIN TILES/FIELD TILES/UNDERDRAINS/ PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TO BE TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED, AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

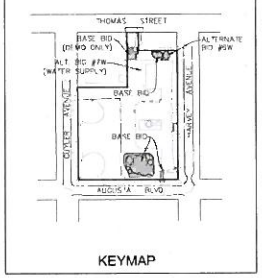
2. ALL ABANDONED SEWERS SHALL BE PLUGGED WITH TWO-FOOT LONG NON SHRINK CONCRETE MORTAR PLUGS.

DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND DISPOSAL ON A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, PLINTHS, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC. SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING FOR ALL FEES AND CHARGES.
5. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
6. THE PARKING LOT SHALL BE COMPLETED IN SECTIONS SO THAT IT DOES NOT INTERRUPT THE FACILITY OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER FOR WORK TO BE PERFORMED.
7. ALL ALTERNATES AND STAGING AREAS SHALL INCLUDE ADDITIONAL CONSTRUCTION FENCE TO SAFELY SECURE THE CONSTRUCTION AREA AND PROTECT THE PUBLIC.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR LOCATION OF EXISTING UTILITIES.
9. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
10. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES.
12. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION.
13. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
14. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FEATURES INDICATED TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN. ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
15. CONTRACTOR MAY UMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, HOWEVER IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR.
16. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING AREAS, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE. CONTRACTOR SHALL COORDINATE/PHASE ALL CONSTRUCTION ACTIVITY WITHIN PROXIMITY OF THE BUILDING AND UTILITY INTERRUPTIONS WITH THE FACILITY MANAGER TO MINIMIZE DISTURBANCE AND INCONVENIENCE TO FACILITY OPERATIONS.
17. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPTARMENT AND THE JURISDICTIONAL GOVERNING ENTITY TO PLAN THE PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE FACILITY AND SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH THE JURISDICTIONAL GOVERNING ENTITY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUTS OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.

DEMOLITION LEGEND

- FULL DEPTH PAVEMENT/CONCRETE/ SIDEWALK AND BASE TO BE REMOVED
- REMOVE ALL EXISTING PLAYGROUND EQUIPMENT, TIMBER WALLS, BENCHES, ARTIFICIAL SURFACES AND MULCH UNLESS INDICATED TO REMAIN.
- FENCE, RETAINING WALL, RAILROAD TIES, POLES, CURB AND GUTTER, ETC. TO BE REMOVED
- UTILITY STRUCTURE TO BE REMOVED
- UTILITY LINE REMOVAL
- REFER TO LANDSCAPE PLANS FOR TREE PRESERVATION AND REMOVAL
- TBR — TO BE REMOVED
- SAWCUT PAVEMENT, FULL DEPTH
- CONSTRUCTION FENCE



KEYMAP

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Project

OAK PARK ELEMENTARY SCHOOL DISTRICT 97

WHITTIER SCHOOL

Drawing

EXISTING CONDITONS AND DEMOLITION PLAN

Drawn by: SWL

Checked by: BJA

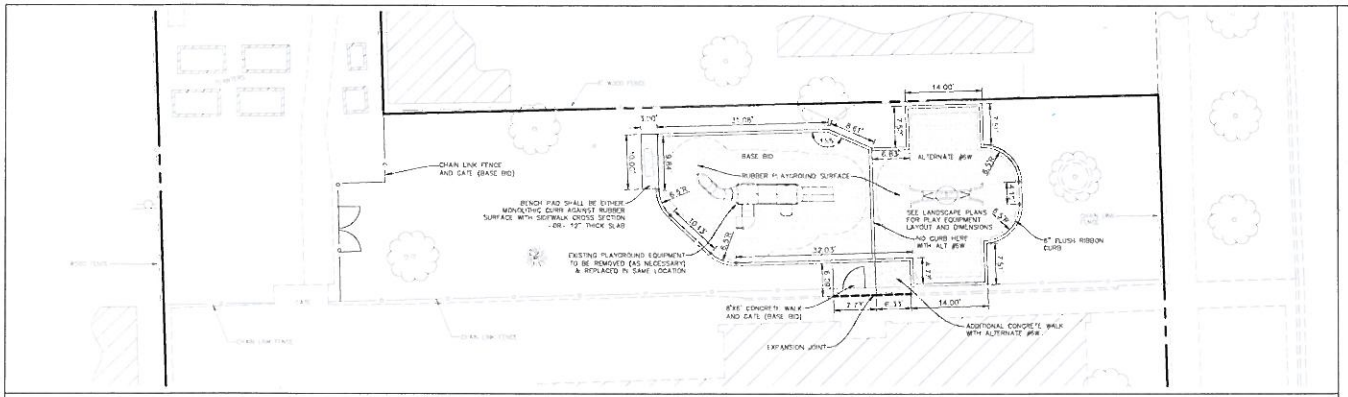
Date: Dec 21, 2012

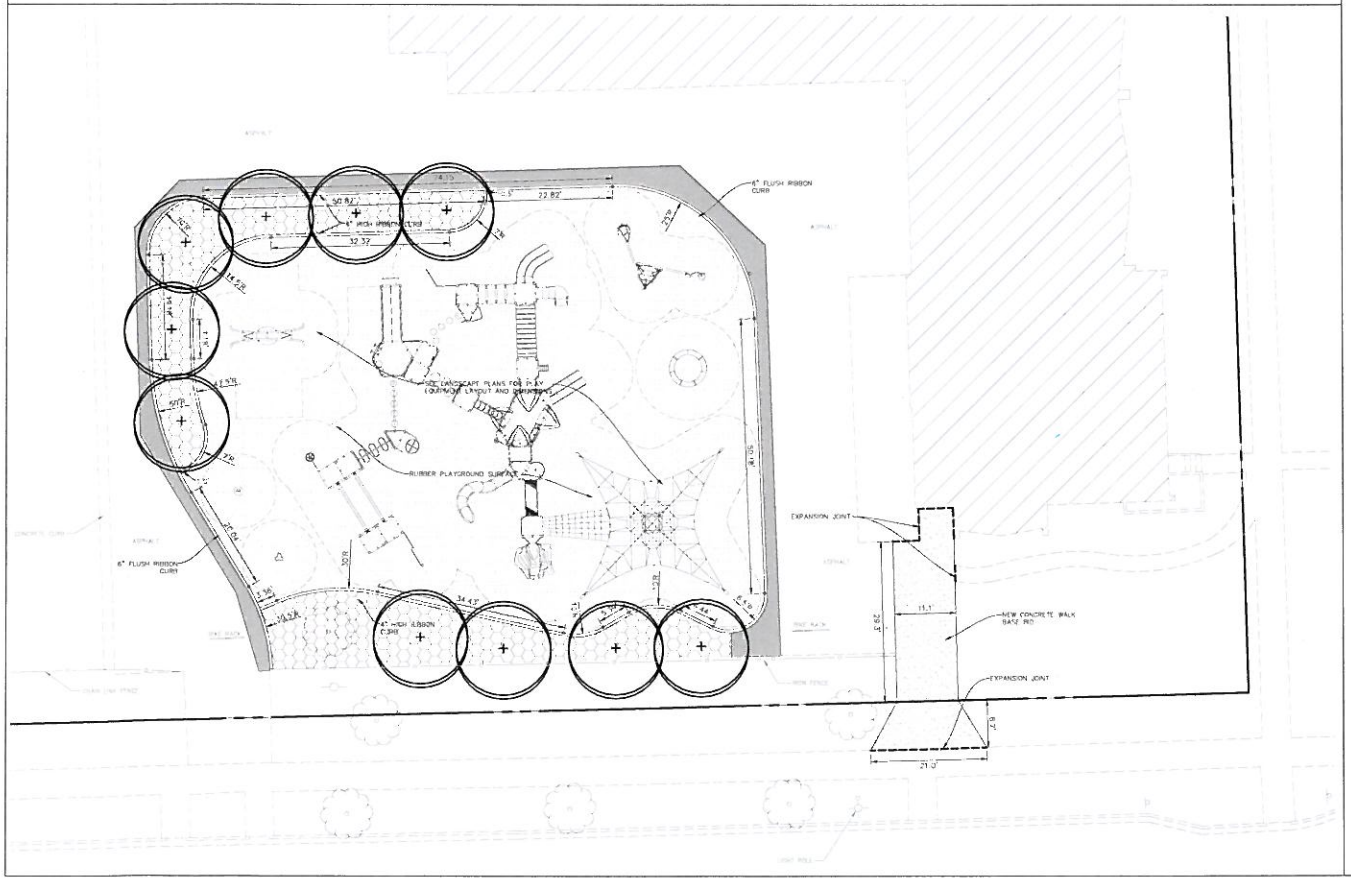
Stamp: Exp 11.30.2013

North

Sheet Number

C-501W



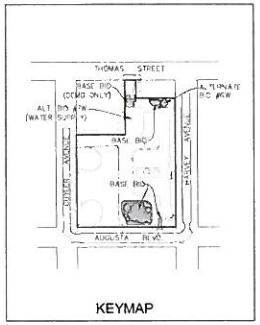


NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft

NOTE:
ANY LOCATION WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR STRUCTURE SHALL REQUIRE A 3/4" FIBRE EXPANSION BOARD AT THE JOINT



KEYMAP

SITE DIMENSIONAL AND PAVING NOTES:

1. ALL DIMENSIONS ARE BACK OF CURB TO BACK OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE. ALL RADII DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE RIBBON CURB UNLESS OTHERWISE NOTED.
3. BUILDING DIMENSIONS AND ADJACENT PARKING AND UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
5. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR DIMENSIONS OF PLAYGROUND EQUIPMENT.

PAVEMENT/SURFACE LEGEND

ASPHALT PAVEMENT
1 1/2" BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50
1 1/2" BITUMINOUS BINDER COURSE, HOT-MIX ASPHALT, IL-12.5, N50
8" AGGREGATE BASE COURSE, TYPE B

RUBBER PLAYGROUND SURFACE
REFER TO DETAIL ON SHEET C-601

CONCRETE SIDEWALK/RECREATIONAL PATH
5" CONCRETE PAVEMENT
4" COMPACTED AGGREGATE BASE, TYPE B
(SEE LANDSCAPE PLANS FOR SCORING PATTERN)

WOOD MULCH

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

WHITTIER SCHOOL
SITE DIMENSION AND PAVING PLAN

Drawing

Drawn by: SWL

Checked by: BJA

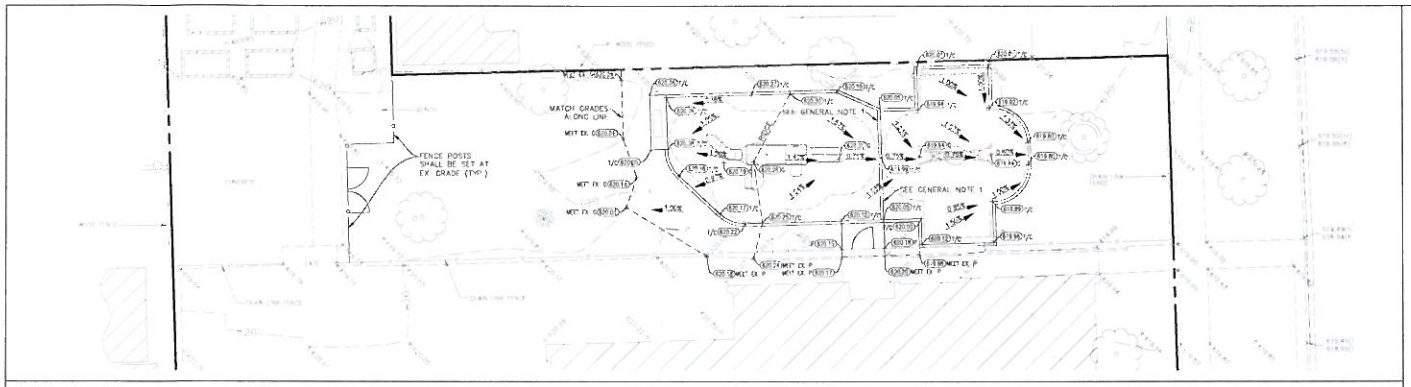
Date: Dec 21, 2012

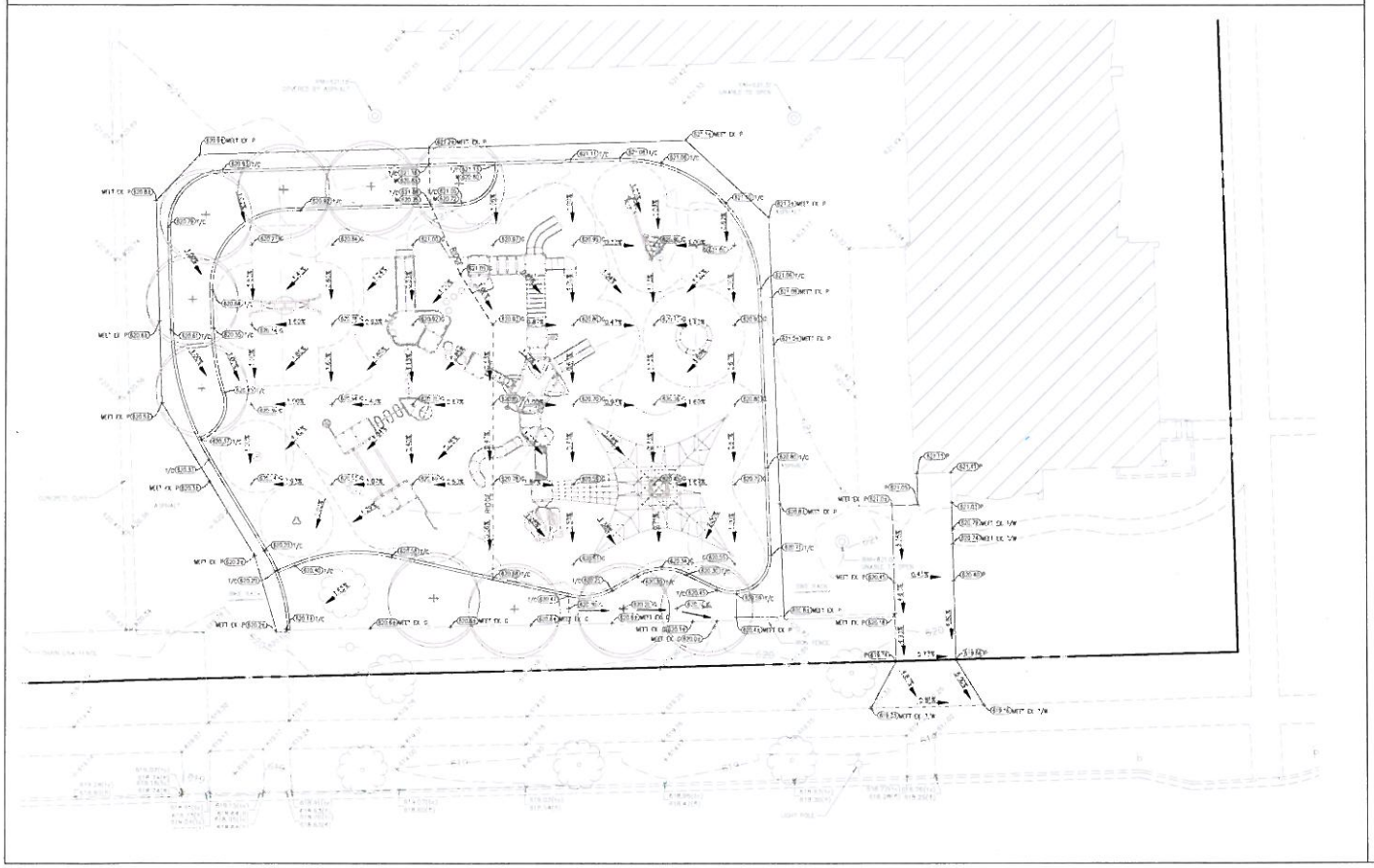
Stamp: Exp 11.30.2013

North

C-502W

Sheet Number





NORTH

GRAPHIC SCALE

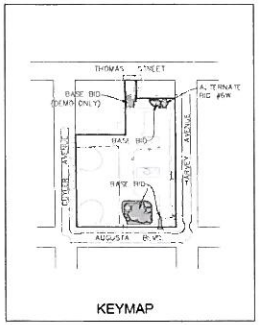
(IN FEET)
1 inch = 10 ft.

GENERAL NOTES:

1. IF ALTERNATE #6W IS NOT ACCEPTED, CONTRACTOR SHALL SLOPE GROUND FROM TOP OF FLUSH CURB FAST AT A MAX 5% SLOPE

GRADING NOTES:

1. ALL WORK PROPOSED SHALL BE IN ACCORDANCE WITH THE ILLINOIS ACCESSIBILITY CODE, LATEST EDITION
2. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION
3. MEET EXISTING GRADE AT PROPERTY LIMITS AND ALL UNDISTURBED AREAS UNLESS NOTED OTHERWISE
4. CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS
5. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT



KEYMAP

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Project

OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing

WHITTIER SCHOOL GRADING PLAN

Drawn by: DH

Checked by: BJA

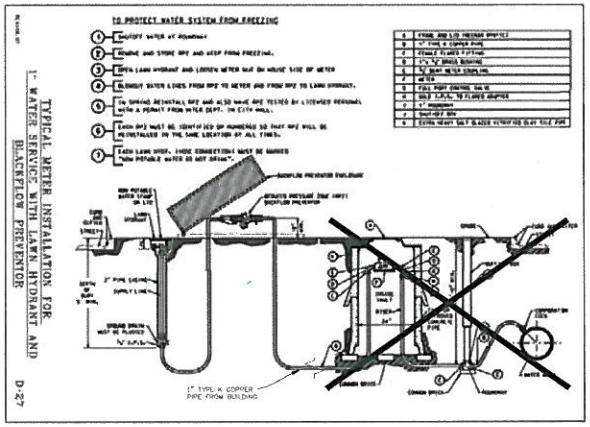
Date: Dec 21, 2012

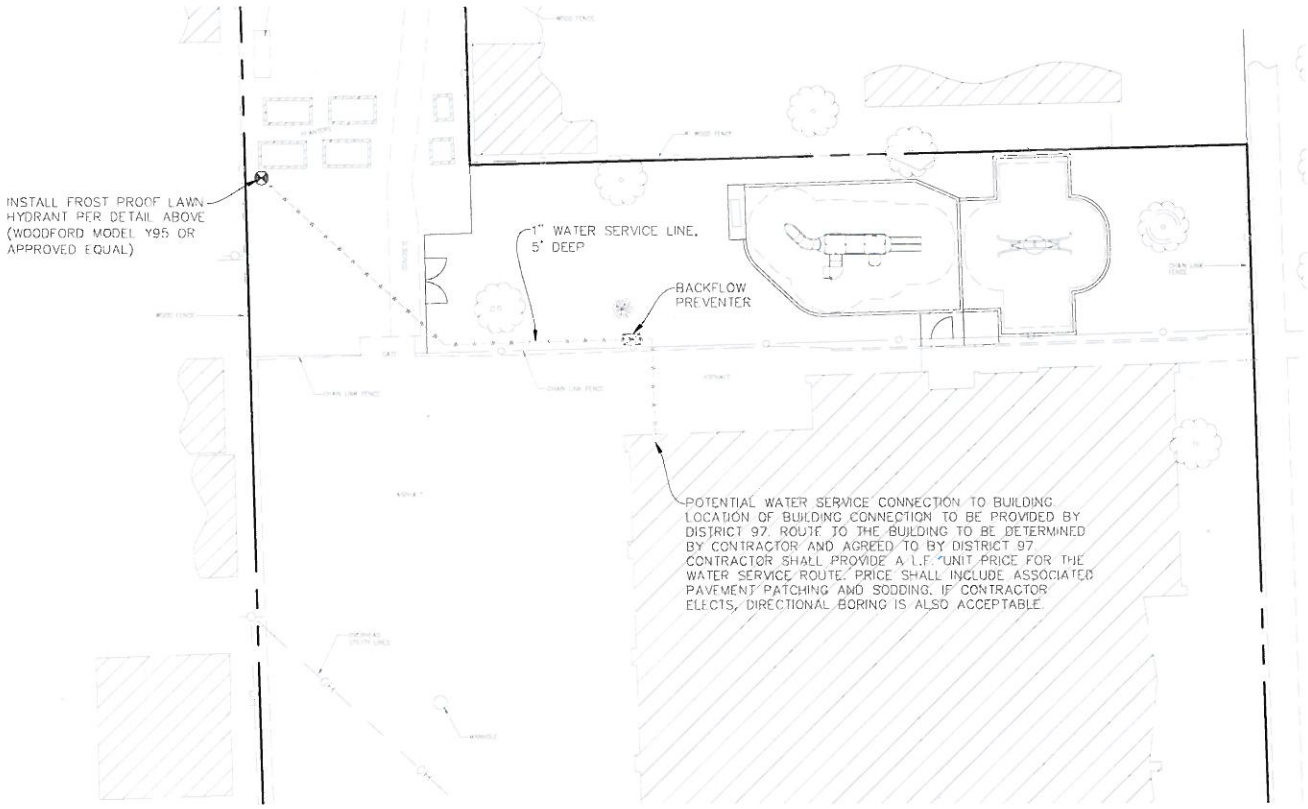
Stamp Exp 11.30.2013

North

C-503W

Sheet Number

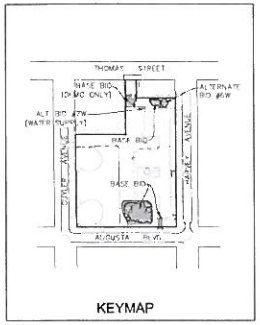




NORTH

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.



UTILITY NOTES:

1. ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
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5. LIGHTING AND UNDERGROUND CABLE, IF SHOWN ON PLANS, ARE FOR APPROXIMATE LOCATION ONLY.
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7. ALL STORM SEWER IMPROVEMENTS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH THE MWRD STANDARD SPECIFICATIONS.
8. CONTRACTOR SHALL HAVE AN ILLINOIS LICENSED LAND SURVEYOR COLLECT AS BUILT INFORMATION AS REQUIRED BY THE MWRD.

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Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: WHITTIER SCHOOL UTILITY PLAN

Drawn by: SWL

Checked by: BJA

Date: Dec 21, 2012

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North

Sheet Number: C-504W

MANHARD CONSULTING, LTD.
STANDARD SPECIFICATIONS
GENERAL CONDITIONS

CONTRACTOR acknowledges and agrees that the use and issuance of these Plans and Specifications is sufficient consideration for CONTRACTOR's covenants stated herein.

DEFINITION OF TERMS

a. "CLIENT" shall mean Oak Park District 97, which is the person or entity with whom Altamanu, Inc has a contract with. Manhard Consulting, Ltd. is contracted as a subconsultant of Altamanu, Inc. to prepare Civil Engineering PLANS and SPECIFICATIONS.

b. "ENGINEER" shall mean Manhard Consulting, Ltd., a Civil Engineering consultant on the subject project.

c. "PLANS and SPECIFICATIONS" shall mean the Civil Engineering PLANS and SPECIFICATIONS prepared by the ENGINEER, which may be a part of the contract documents for the subject project.

d. "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS and SPECIFICATIONS.

e. "JURISDICTIONAL GOVERNMENTAL ENTITY" shall mean any municipal, county, state or federal unit of government from whom an approval, permit and/or review is required for any aspect of the subject project.

INTENT OF THE CONTRACT DOCUMENTS

The intention of the PLANS and SPECIFICATIONS is to set forth certain requirements of performance, type of equipment and structures, and standards of materials and construction. They may also identify labor and materials, equipment and transportation necessary for the proper execution of the work but are not intended to be infinitely determined so as to include minor items obviously required as part of the work. The PLANS and SPECIFICATIONS require new material and equipment unless otherwise indicated, and to require complete performance of the work in spite of omissions of specific references to any minor component part. It is not intended, however, that materials or work not covered by or properly inferred from any heading, branch, class or trade of the SPECIFICATIONS shall be supplied unless distinctly so noted. Materials or work described in words, which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards.

INTERPRETATION OF PLANS AND SPECIFICATIONS

a. The CLIENT and/or CONTRACTOR shall promptly report any errors or ambiguities in the PLANS and SPECIFICATIONS to the ENGINEER. Questions as to meaning of PLANS and SPECIFICATIONS shall be interpreted by the ENGINEER, whose decision shall be final and binding on all parties concerned.

b. The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional details of construction.

c. Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after award of the contract, the ENGINEER's attention shall be called to the same before the work is begun thereon and the proper corrections made. Neither the CLIENT nor the CONTRACTOR may take advantage of any error or omissions in the PLANS and SPECIFICATIONS. The ENGINEER will provide information when errors or omissions are discovered.

GOVERNING BODIES

All work herein proposed shall be completed in accordance with all requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, and all such pertinent laws, directives, ordinances and the like shall be considered to be a part of these SPECIFICATIONS. If a discrepancy is noted between the PLANS and SPECIFICATIONS and requirements of any JURISDICTIONAL GOVERNMENTAL ENTITY, the CLIENT and/or the CONTRACTOR shall immediately notify the ENGINEER in writing.

LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

When the PLANS and SPECIFICATIONS include information pertaining to the location of existing underground facilities and utilities (including but not limited to water mains, sanitary sewers, storm sewers, electric, telephone, gas and cable TV lines), such information represents only the opinion of the ENGINEER as to the approximate location and elevation of such facilities and utilities. At the locations wherein detailed positions of these facilities and utilities become necessary to the new construction, including all points of connection, the CONTRACTOR shall furnish all labor and tools to verify or definitely establish the horizontal location, elevation, size and material (if appropriate) of the facilities and utilities. The CONTRACTOR shall notify the ENGINEER at least 48 hours prior to construction if any discrepancies in existing utility information or conflicts with existing utilities exist. The ENGINEER assumes no responsibility whatever with respect to the sufficiency or accuracy of the information shown on the PLANS and SPECIFICATIONS relative to the location of underground facilities and utilities, nor the manner in which they are removed or adjusted.

It shall be the CONTRACTOR's responsibility prior to construction, to notify all Utility Companies of the intentions to begin construction and to verify the actual location of all such facilities and utilities. The CONTRACTOR shall also obtain from the respective Utility Companies the working schedules for removing or adjusting these facilities.

UNSUITABLE SOILS

The PLANS have been prepared by the ENGINEER based on the assumption that all soils on the project are suitable to support the proposed improvements shown. The CONTRACTOR shall immediately notify the ENGINEER if he discovers or encounters an obstruction that prevents the installation of the improvements according to the line and grades shown on the PLANS.

PROTECTION OF TREES

Refer to the Landscape Architecture drawings for protection of trees.

NOTIFICATION OF OWNERS OF FACILITIES AND UTILITIES

The CONTRACTOR shall notify all applicable Jurisdictional Governmental Entities or utility companies, i.e., water, sewer, electric, telephone, gas and cable TV prior to beginning any construction so that said entity or company can establish the location and elevation of underground pipes, conduits or cables adjoining or crossing proposed construction.

TRAFFIC CONTROL

The CONTRACTOR shall provide when required by any JURISDICTIONAL GOVERNMENTAL ENTITY, all signs, equipment, and personnel necessary to provide for safe and efficient traffic flow in all areas where the work will interrupt, interfere or cause to change in any form, the conditions of traffic flow that existed prior to the commencement of any portions of the work. The CLIENT may, at his discretion, require the CONTRACTOR to furnish traffic control under these or other circumstances where in his opinion it is necessary for the protection of life and property. Emergency vehicle access shall be maintained at all times. Unless authorized by the CLIENT or CLIENT's construction representative, all existing access points shall be maintained at all times by the CONTRACTOR. The need for traffic control shall be anticipated by the CLIENT.

WORK AREA

The CONTRACTOR, his agents and employees and their employees and all equipment, machinery and vehicles shall confine their work within the boundaries of the project or work area specified by the Client. The CONTRACTOR shall be solely liable for damage caused by him or his agents and employees and their equipment, machinery and vehicles on adjacent property or areas outside designated work areas.

UTILITY POLES

It shall be the responsibility of the CONTRACTOR to arrange for the relocation or bracing of existing utility poles that may be within the working limits of this contract. It is expressly understood that all work and costs connected with the maintenance of these utility poles, their temporary relocations, etc., shall be the responsibility of the CLIENT or the CONTRACTOR.

RESTORATION

It is the intent of these SPECIFICATIONS that clean-up and final restoration shall be performed immediately upon completion of each phase of the work or when so directed by the CLIENT so that these areas will be restored as nearly as possible to their original condition or better and shall include but not be limited to, restoration of maintained lawns and rights-of-way, roadways, driveways, sidewalks, ditches, bushes, hedges, trees, shrubs, fences, mailboxes, sewers, drain tiles, water mains, etc.

ROAD CLEANING

The CONTRACTOR shall maintain roadways adjoining the project site free from mud and debris at all times. If mud and/or debris is carried onto the roadways from vehicles entering onto the highway from either the CONTRACTOR's trucks, his employees' vehicles, or his material suppliers, the CONTRACTOR shall immediately remove said mud and/or debris.

SAFETY AND PROTECTION

The CONTRACTOR shall be solely and completely responsible for the conditions of the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. The CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss, and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR's duties and responsibilities for safety and for protection of the work shall continue until such time as all work is completed and the CLIENT has notified CONTRACTOR that the work is acceptable. The duties of the ENGINEER do not include review of the adequacy of either the CONTRACTOR's or the general public's safety in, on, or near the construction site.

HOLD HARMLESS

To the fullest extent permitted by law, any CONTRACTOR, material supplier or other entity by use of these plans and specifications hereby waives any right of contribution and agrees to indemnify, defend, save and hold harmless Manhard Consulting, Ltd. and its agents, employees and consultants from and against all manner of claims, causes, causes of action, damages, losses and expenses, including but not limited to, attorneys' fees arising out of, resulting from or in connection with the performance of any work, pursuant to or with respect to these plans and specifications. However, this indemnity shall not be construed to indemnify Manhard Consulting, Ltd., its consultants, agents or employees against its own negligence.

Claims, damages, losses and expenses as these words are used in the Agreement shall mean and include, but not be limited to (1) injury or damage occurring by reason of the failure of or use or misuse of any hoist, rigging, blocking, scaffolding or any and all other kinds of items of equipment, whether or not the same be owned, furnished or loaned by any party or entity including any contractor; (2) all attorneys' fees and costs incurred in bringing an action to enforce the provisions of this indemnity (3) costs for time expended by the indemnified party and its employees, at its usual rates plus costs of travel, long distance telephone and reproduction of documents and (4) consequential damages.

Only to the extent necessary to prevent this provision from being void under any state statute of the state where the work specified in these Plans and Specifications are to be performed, this indemnity agreement shall not require the CONTRACTOR to indemnify the ENGINEER, its consultants, agents or employees against its own negligence.

INSURANCE

Any party using these plans, including any contractor, material supplier, or other entity shall obtain, (prior to commencing any work) general public liability insurance insuring against all damages and claims for any bodily injuries, death or property damage arising out of any work, including the construction work provided for in these plans, and shall name Manhard Consulting, Ltd. and its consultants, agents and representatives as additional insureds under such insurance policy. Such insurance must contain a clause stating that the insurance is primary coverage for Manhard Consulting, Ltd. and Manhard Consulting, Ltd.'s other applicable coverage is considered secondary.

THIRD PARTY BENEFICIARY

Manhard Consulting, Ltd. the ENGINEER, is intended to be a third party beneficiary of this writing agreement and requirement.

DETAILED SPECIFICATIONS

I. EXCAVATION AND GRADING

A. STANDARDS

This work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition except as modified below.

B. EXCAVATION AND EMBANKMENT

DEMOLITION

a. CONTRACTOR shall perform all demolition work in accordance with all applicable Federal, State and local requirements.

b. The CONTRACTOR shall coordinate all demolition with the JURISDICTIONAL GOVERNING ENTITY and CLIENT to ensure protection and maintenance of sanitary sewer and water utilities as necessary and to provide stormwater conveyance until new facilities are constructed, tested and placed into operation.

c. CONTRACTOR shall develop and implement a daily program of dust control and shall submit and obtain JURISDICTIONAL GOVERNING ENTITY approval of dust control procedures prior to demolition of any structures. Modification of dust control procedures shall be performed by the CONTRACTOR to the satisfaction of the JURISDICTIONAL GOVERNING ENTITY as requested.

d. All asphalt pavement, curb and gutter and miscellaneous structures shall be demolished by the CONTRACTOR and disposed of offsite as approved by CLIENT.

e. All existing sewers outside the building as indicated on the PLANS to be removed shall be removed from the site and disposed of offsite by the CONTRACTOR.

f. Voids left by any item removed under any proposed building, pavement or walk or within 24' thereof shall be filled and compacted with suitable materials by the CONTRACTOR.

g. All fire access lanes within the project area shall remain in service, clean of debris, and accessible for use by emergency vehicles.

h. Any existing wells encountered shall be exposed and sealed 3' below proposed finish grade by the CONTRACTOR in accordance with Section 920.120 of the Illinois Water Well Construction Code, Department of Public Health, Latest Edition, and all applicable local rules and regulations.

i. Any existing septic tanks and grease traps encountered shall have all liquids and solids removed and disposed of by a licensed commercial hauler in accordance with JURISDICTIONAL GOVERNING ENTITY regulations, and the tank and grease traps shall then be filled with suitable materials or removed from the site and disposed of by the CONTRACTOR.

j. Any material containing asbestos found within existing structures shall be removed from the site and disposed of off-site by the CONTRACTOR in accordance with County, State and Federal regulations.

k. Prior to the commencement of any demolition activity, the OWNER/CONTRACTOR shall obtain all applicable permits to disconnect existing utility services to each building proposed for demolition.

SOIL BORING DATA

Copies of results of soil boring and reports, if such borings were taken by the CLIENT in the vicinity of the proposed construction site, should be made available by the CLIENT to the CONTRACTOR. These borings are presented for whatever purpose the CONTRACTOR chooses to make of them. The ENGINEER makes no representation or warranty regarding the number, location, spacing or depth of borings taken, nor of the accuracy or reliability of the information given in the results thereof.

Further, the ENGINEER does not assume responsibility for the possibility that during construction, the soil and groundwater condition may be different than indicated. Neither does the ENGINEER assume responsibility for variations of soil and groundwater at location between borings. The CONTRACTOR is required to make its own borings, explorations and observations to determine soil and groundwater conditions.

EARTHWORK CALCULATIONS AND CROSS SECTIONS

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been furnished by the ENGINEER are for information only and are provided without any guarantee by the CLIENT or ENGINEER whatsoever as to their sufficiency or accuracy. CONTRACTOR warrants that he has performed his own subsurface investigations as necessary and his own calculations and cross sections to determine site soil conditions and earthwork volumes. The ENGINEER makes no representation or guarantee regarding earthwork quantities or that the earthwork for this project will balance due to the varying field conditions, changing soil types, allowable construction tolerances and construction methods that are beyond the control of the ENGINEER.

CLEARING, GRUBBING AND TREE REMOVAL

The site shall be cleared, grubbed, and trees and stumps removed where designated on the PLANS. Trees designated to remain shall be protected from damage. Refer to the Landscape Architecture drawings for tree protection.

TOPSOIL STRIPPING

Upon completion of demolition, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pavement areas, and other areas necessary to complete the work. Topsoil stripped shall be placed in stockpiles in locations as designated by the CLIENT.

TOPSOIL RESPREAD

Upon completion of roadway and/or parking lot improvements and installation of underground utilities a minimum of four inches (4") of topsoil shall be respread over all unpaved areas which have been disturbed by earthwork construction, except building pads and other designated areas, which shall be kept free from topsoil.

SEEDING

Upon completion of topsoil respread, the CONTRACTOR shall apply seed and fertilizer as designated on the PLANS or as designated on landscape drawings and specifications provided by the CLIENT. The CONTRACTOR shall adhere to the requirements of the landscape plans; however in the absence of landscape drawings and specifications, seeding shall be as designated on the PLANS and in accordance with the above standards.

EXCAVATION AND EMBANKMENT (FILL)

Upon completion of topsoil stripping, all excavation and embankments shall be completed as shown on the PLANS. All suitable excavated materials shall be hauled, placed (moisture conditioned if necessary) and compacted in the embankment areas. The CONTRACTOR shall include all dewatering, temporary ditching and culverts necessary to complete the excavation and embankment.

Specifically included in the scope of Excavation and Embankments is grading and shaping of all cut or fill areas including swales and ditches, handling of sewer spoil, etc., and all work required to provide positive drainage at the end of each working day and upon completion of a section.

The CONTRACTOR shall be responsible for the excavation of all swales and ditches and for the excavation or filling of the parking lot within the work limits to within ±0.1 feet of the proposed subgrade elevations indicated on the PLANS. He shall be responsible for obtaining compaction in accordance with the minimum values listed in the table below for all embankments unless more stringent values are listed in the soils report, and to use any method approved by the CLIENT necessary to obtain this compaction (i.e., soil "lime" or any undercutting that may be required).

Type Material	Percent Compaction Standard	Pavement & Floor Slabs	Grass Areas
Sandy Soils	Modified Proctor	95%	90%
Clayey Soils	Standard Proctor	95%	90%

unless approved otherwise in the soils report or by the CLIENT.

The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remedial measures may be needed.

A soils testing firm employed by the CLIENT shall determine which soils are unsuitable. Materials in their natural state being defined as unsuitable that would be suitable material if moisture conditioned, shall be conditioned by the CONTRACTOR and used as suitable embankment material or hauled from the site.

For purposes of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer.

a. Any soil whose optimum moisture content exceeds 25%.

b. Any cohesive soil with an unconfined compressive strength of 1.5 tons per square foot or less.

c. Any soil whose silt content exceeds 60% by weight.

d. Any soil whose maximum density is less than 100 pounds per cubic foot.

e. Any soil containing organic, deleterious, or hazardous material.

Upon completion of excavation and shaping of the water retention areas, all silt sewers and granular or sandy soils shall be removed to a minimum depth of three feet below the subgrade and replaced with an impermeable clay liner, including adjacent to and under storm sewer inlets and outlets. It is the intent of these PLANS and SPECIFICATIONS that the CONTRACTOR shall prepare the lake bottoms, side slopes, and compaction thereof so that the lakes will maintain the proposed normal water level and that leakage does not exceed ¼ inch per week.

Ditches and swales are to be excavated to the lines and grades indicated on the PLANS. All suitable materials excavated from the ditches shall be used in construction of the embankments.

The CONTRACTOR shall notify the CLIENT immediately upon encountering groundwater during excavation. If in the opinion of the CLIENT or the JURISDICTIONAL GOVERNING ENTITY this condition necessitates the installation of perforated drain tile bedded in washed gravel or open storm sewer joints wrapped with fabric, the CONTRACTOR shall install the same.

During excavation and embankment, grades may be adjusted to provide an overall site earthwork balance. The CONTRACTOR shall cooperate fully with the CLIENT in adjustment of grades, construction methods and placement of material to meet the above goals and shall immediately advise CLIENT if he believes that the earthwork will not balance.

It is the intent of these PLANS that storm waters falling on this site be diverted into sedimentation (lake) detention basins during construction. The CONTRACTOR shall construct and maintain any temporary ditches or swales that are necessary to accomplish this prior to beginning mass excavation.

EROSION CONTROL

Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and Sedimentation Control ordinances and the PLANS.

UNDERCUTTING DURING EARTHWORK

If the subgrade cannot be dried adequately by discing as outlined above for placement of material to planned grades and if the CLIENT determines that the subgrade does not meet the standards set forth above, the CLIENT may require undercutting.

MISCELLANEOUS CONTRACT ITEMS

The following items may be required at the CLIENT's option, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY.

(a) **GEOTEXTILE FABRIC**

Geotextile fabric or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY where proper compaction of embankments over existing soft soils is not possible. Geotextile fabric shall meet the material specifications of and shall be installed in accordance with the above standards.

(b) **EROSION CONTROL BLANKET**

Erosion control blanket or approved equal shall be provided in areas as designated by the CLIENT, as indicated on the PLANS or as required by the JURISDICTIONAL GOVERNING ENTITY for the stabilization of disturbed areas. Erosion control blanket shall meet the material specifications of and shall be installed in accordance with the above standards, the Illinois Urban Manual and/or the details shown on the PLANS.

II. UNDERGROUND IMPROVEMENTS

A. GENERAL

STANDARDS

All underground improvements shall be constructed and tested in accordance with the Standard Specifications for Water and Sewer Construction in Illinois and Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, latest edition. In the event of conflicting guidelines, the more restrictive shall govern.

SELECTED GRANULAR BACKFILL

Selected Granular Backfill shall be required for all sewer and water main trenches lying under existing or proposed streets, driveways, parking lots and within 24" thereof, and where noted on PLANS. All material placed in such trenches shall be in accordance with the above standards.

MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS

All Manholes, Catch Basins, Inlets, and Valve Vaults shall be constructed of reinforced precast concrete ring construction with tongue and groove joints in conformance with the latest revision of ASTM designation C-478. All joints between sections and frames (except sanitary manholes, see Section IIB Manholes, below) shall be sealed with mastic type bituminous jointing compound. CONTRACTOR shall remove all excess mastic on inside of structures and butter joints with mortar. Manholes are to have offset cones except that no cone shall be used on storm manholes 6'-0" deep or less in which case a reinforced concrete flat top section shall be used, and Valve Vaults shall have concentric cones. Only concrete adjustment rings will be permitted where necessary and shall be limited to two adjustment rings totaling not more than 8" in height. All manholes and catch basin steps shall be copolymer polypropylene with continuous ½" steel reinforcement as manufactured by MA Industries, or approved equal.

AUGER BORING AND CASING

Casing pipe shall be welded steel pipe, installed where shown on the PLANS. The carrier pipe shall be securely blocked and banded and sanitary and storm sewers shall maintain the specified gradient. Upon installing the carrier pipe the voids between the casing and carrier pipe shall be filled with sand or grout and the ends shall be sealed with hydraulic cement.

AUGER (OPEN BORE)

The CONTRACTOR shall auger (open bore) where noted on PLANS.

HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS

Horizontal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois Section 41-2.01A and 41-2.01B and Standard Drawing 18, 19, 20, 21, 22, 23 and 24.

STRUCTURE ADJUSTMENTS

Structures shall be adjusted to the finished grade as shown on PLANS.

B. SANITARY SEWERS AND APPURTENANCES

SANITARY SEWER PIPE

Sanitary sewer pipe including building services, shall conform to the following:

a. Polyvinyl Chloride (PVC) Sewer Pipe shall conform to ASTM D3034 (6-inch thru 15-inch) or ASTM F679 (18-inch thru 27-inch) minimum SDR 26 with flexible elastomeric seal gasket joints conforming to ASTM D3212 and F477.

b. Ductile Iron Sewer Pipe shall conform with ANSI/AWWA C151/A21.51 Class 50, cement lined with push on type joints conforming to ANSI/AWWA C111/A21.11.

c. Extra Strength Clay Sewer Pipe shall conform with ASTM Specification C700 (glazed) with ASTM D1784 type joints conforming to Clow NO-BELL (LSVCP), with flexible gasket meeting ASTM C425 (Chicago only).

Sanitary sewers shall include bedding and backfilling.

MANHOLES

Manholes shall be constructed in conformance with Section IIA Manholes, etc. above. The concrete base and bottom section shall be constructed of precast reinforced concrete monolithically cast sections including benches, pipe connection and invert flow lines. Manhole frame and lids shall be Neenah R-1772 or approved equal, with lids imprinted "SANITARY", with recessed pick holes. Manhole joints between adjustment rings and frames and between manhole sections shall be set on preformed plastic gasket consisting of a homogeneous blend of refined hydrocarbon resins and plasticizing compounds reinforced with inert mineral filler to provide a water tight seal. All pipe connection openings shall be precast with resilient rubber watertight pipe sleeves. A 10" elastomeric band (chimney seal) shall be installed extending from the manhole top to the manhole frame as shown on detail. Manholes shall include steps, frame & grate, bedding, and trench backfill.

FOUNDATION, BEDDING AND HAUNCHING

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on the detail.

TESTING

Sanitary sewers shall be air tested and tested for deflection in accordance with the requirements of Section 31-1.12 "TESTING AND INSPECTION FOR ACCEPTANCE OF SANITARY SEWERS" of the Standard Specifications for Water and Sewer Construction in Illinois or the JURISDICTIONAL GOVERNING ENTITY, whichever is more restrictive. In addition, a televised inspection of the completed sanitary sewers shall be conducted and a copy of the videotape and report furnished to the JURISDICTIONAL GOVERNING ENTITY.

All sanitary manholes are to be tested for water tightness in accordance with ASTM C969 "Standard Practice for Infiltration and Exfiltration Acceptance Testing of Installed Precast Concrete Pipe Sewer Lines", or ASTM C1244 "Standard Test Method for Concrete Sewer Manholes by the Negative Pressure (Vacuum) Test".

SERVICES

A wye branch or "tee" and sanitary service line, properly plugged and sealed shall be constructed as shown on the PLANS. The ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted red. The CONTRACTOR shall keep accurate records of all Wye or Tee locations as measured from the downstream manhole as well as the service lengths and furnish same to CLIENT.

RISERS

Risers shall be constructed in locations as shown on the PLANS and according to the detail.

DROP MANHOLE CONNECTIONS

Drop manhole connections to existing manholes shall be constructed according to the PLANS and the detail.

SANITARY SEWER FORCE MAIN

Sanitary sewer force main shall conform to the following:

a. Polyvinyl Chloride Pipe (PVC) Class 150, conforming to ASTM D2241 with integral bell and flexible elastomeric seal joints conforming to ASTM D3139 and F477.

b. Ductile iron cement lined pipe conforming to the latest revision of ANSI/AWWA C151/A21.51, Thickness Class 50, minimum 150 psi working pressure with "push on" type joints.

Force mains shall have a minimum of five feet six inches (5'-6") of cover and shall include bedding and trench backfill.

Upon completion of installation, force mains are to be plugged and pressure tested to 2 times the working pressure or total dynamic head for a period of 10 minutes, with no loss of pressure or as required by the JURISDICTIONAL GOVERNING ENTITY, whichever is more stringent.

TELEVISION INSPECTION

Upon completion of construction a television inspection of the sanitary sewer system shall be performed on all portions of the sewer if required by the JURISDICTIONAL GOVERNING ENTITY. Videotapes and written report of all television inspections shall be provided to the CLIENT. The form of report and type and format of the videotape shall be approved by the JURISDICTIONAL GOVERNING ENTITY.

All sewers and appurtenances shall be cleaned prior to inspection and testing required by this section.

All defects and corrective work required as the result of television inspection shall be performed by the CONTRACTOR without delay. All dips, cracks, leaks, improperly sealed joints and departures from approved grades and alignment shall be repaired by removing and replacing the involved sections of pipe. Upon completion thereof, the sewer shall be retested and such further inspection made as may appear warranted by the CLIENT.

MISCELLANEOUS

All floor drains shall be connected to the sanitary sewer.

A. WATER MAINS AND APPURTENANCES

WATER MAIN PIPE (3" AND LARGER)

Water main pipe shall conform to the following:

a. Ductile iron cement lined pipe conforming to the latest revision of ANSI/AWWA C151/A21.51, Thickness Class 52, minimum 150 psi working pressure with "push on" type joints.

b. Polyvinyl Chloride Pipe (PVC) conforming to the latest revision of ANSI/AWWA C900 (4-inch thru 12-inch) or ANSI/AWWA C905 (14-inch thru 48-inch) with a pressure rating of 235 psi, SDR 18 in accordance with ASTM D2241. Joints shall be pressure rated in accordance with ASTM D3139 with elastomeric seals in accordance with ASTM F477.

Installation shall be in accordance with ANSI/AWWA C600 (Ductile Iron) or ANSI/AWWA C605 (PVC). All water main shall have mechanical joint cast iron or ductile iron fittings in accordance with ANSI/AWWA C110/A21.10 or compact ductile iron fittings in accordance with ANSI/AWWA C153/A21.53 with 250 psi working pressure.

Poured or monolithic concrete thrust blocks are required to brace all tees, plugs, caps, and bends of 11-1/4 degree deflection or greater. Minimum cover for all water mains, including services, shall be 5'-6" from the finished grade. Water main shall include bedding and backfilling.

WATER VALVES

All valves shall be resilient wedge gate valves conforming to the latest revision of ANSI/AWWA C509, with a rated working pressure of 200 psi in accordance with JURISDICTIONAL GOVERNING ENTITY requirements, except that butterfly valves conforming to ANSI/AWWA C504 shall be constructed on all water mains 16" diameter and larger. Valves shall be non-rising stem and shall close by turning clockwise.

VALVE VAULTS

Valve vaults shall be constructed in conformance with Section IIA Manholes, etc. above. Frame and lids shall be Neenah R-1772 or approved equal and shall be imprinted "Water". Valve vaults shall include valve, frame and cover, bedding, and backfilling, if required.

FIRE HYDRANTS

Fire hydrants shall be per JURISDICTIONAL GOVERNING ENTITY requirements. All fire hydrants shall be located as shown on the PLANS and shall be painted in a manner acceptable to the JURISDICTIONAL GOVERNING ENTITY after installation and shall be adjusted to final grade.

TAP, STOPS AND BOX

The CONTRACTOR shall determine from the JURISDICTIONAL GOVERNING ENTITY as to the exact style, type, and manufacture of Corporation stops, ground key stops and services boxes preferred by the JURISDICTIONAL GOVERNING ENTITY and shall furnish same.

SMALL WATER SERVICES (2" DIAMETER OR LESS)

Water services shall be type K copper size as shown on PLANS, and constructed where shown on the PLANS. The ends of all services shall be marked with a 4"x4" post extending 36" above grade and painted blue. The CONTRACTOR shall keep accurate records of tap locations and service box locations, as well as the service lengths and furnish same to CLIENT. Water services shall include bedding and backfilling.

DISINFECTION

Disinfections shall meet all of the requirements of the State of Illinois, Environmental Protection Agency, Public Water Supplies Division. The safe quality of the water supply shall be demonstrated by bacteriological analysis of samples collected at sampling taps on at least two consecutive days following disinfection of the mains and copies of the test report submitted to the JURISDICTIONAL GOVERNING ENTITY and the CLIENT.

PRESSURE TEST

Allowable leakage, test pressure and duration shall be as per the requirements of the JURISDICTIONAL GOVERNING ENTITY.

PRESSURE CONNECTION TO EXISTING WATER MAIN

The CONTRACTOR shall maintain system pressure on existing water main at all times. Existing water main shall be located and material examined, and valve basin slab and main supports installed. The existing water main shall be cleaned and the exterior disinfected prior to installing the tapping tee (material to conform to AWWA C110). The tapping valve shall be installed (valve to conform to AWWA C500) and the pressure tap completed in accordance with the detail on the plans. Valve shall be constructed in conformance with the detail. Payment for pressure connection to existing water main shall include disinfection, tapping valve and tee, valve vault, frame and lid, bedding, and trench backfill.

DRY CONNECTION TO EXISTING WATER MAIN

A dry connection to existing water main shall include a connection to an existing water main stub where shown on the PLANS. The CONTRACTOR shall obtain approval of the JURISDICTIONAL GOVERNING ENTITY to shut down any main, including submittal of a schedule of the time to shut off and the time the line will be resumed to service. All mains shut down that are opened to atmosphere must be disinfected prior to returning main into service.

POLYETHYLENE TUBE (FOR DUCTILE IRON WATER MAIN ONLY)

The CLIENT or JURISDICTIONAL GOVERNING ENTITY may request that portions of the water main be enclosed in a polyethylene tube (Jow F-10" or approved equal installed as per the manufacturer's recommendations, should soil conditions so warrant its use.

FOUNDATION, BEDDING AND HAUNCHING

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on the detail.

D. STORM SEWERS AND APPURTENANCES

STORM SEWER PIPE

Storm sewer pipe shall conform to the following:

a. Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designations C76 with C361 or C443 flexible gasket joints, except that bituminous mastic joints may be used in grass areas.

b. Polyvinyl Chloride (PVC) Pipe, ASTM D3034 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 36-inch), rated SDR 26, continually marked with manufacturer's name, pipe size, cell classification, SDR rating. Joints shall be flexible elastomeric seals conforming to ASTM D3212.

c. Ductile Iron Pipe (DIP) shall conform to ANSI/AWWA C151/21.5, Class 50 cement lined with push on type joints conforming to ANSI/AWWA C111/A21.11.

d. High Density Polyethylene Pipe (HDPE) Smooth Interior AASHTO Designation M252 and M294, maximum diameter of 48 inches. Pipe joints and fittings shall be watertight gasketed joints. No band seals will be allowed. (Only permitted with Municipality Approval and/or when specifically indicated on PLANS).

e. Polyvinyl Chloride (PVC) large diameter closed profile gravity sewer pipe, UNI-B-9, ASTM F794. (Only permitted with Municipality Approval and/or when specifically indicated on PLANS).

f. Storm sewers may be constructed with reinforced concrete pipe using only flexible gasket joints (ASTM 361 or 443) for water main crossings.

Storm sewer shall include bedding and trench backfill.

MANHOLES, INLETS & CATCH BASINS

Manholes, Inlets and Catch Basins shall be constructed in conformance with Section IIA Manholes, etc. above. The space between connecting pipes and the wall of the manhole shall be completely filled with non-shrink hydraulic cement mortar. Frames and lids shall be Neenah or approved equal unless specified otherwise on the PLANS. All frames and grates shall be provided such that the flange fully covers the opening plus 2" of the structure as a minimum. Provide "Vane" Type frame & grate for all structures located in curb where gradient exceed 2.0%. Manholes shall include steps, frame & grate, bedding and trench backfill.

FLARED END SECTION

Flared end sections shall be pre-cast reinforced concrete flared end section with an end block cast separate as per the Illinois Department of Transportation Standard 54230* and shall be installed where shown on the PLANS. All flared end sections for storm sewers 12" in diameter and larger shall be installed with a grating per Standard 54211* and/or as detailed on the PLANS. Work shall include end block.

FOUNDATION, BEDDING AND HAUNCHING

Foundation, Bedding and Haunching shall be wet coarse aggregate or moist fine aggregate in accordance with the above standards and placed as shown on the detail.

UNDERDRAINS

Are not permitted.

MISCELLANEOUS

a. All existing field drainage tile encountered cannot be connected to the sewer system tributary to MWRD.

b. Footing drains shall be connected to sump pumps or discharged directly into storm sewers. Footing drains or drainage tile shall not be connected to the sanitary sewer.

CONNECTION FOR STORM SERVICE TO STORM MAIN

Connections of storm sewer services to storm sewer mains should be made with manufactured tees when available. Availability of manufactured tees will be a function of the storm sewer material and pipe diameter size of the service sewer and main. If manufactured tees are not reasonably available, connections should be made in accordance with manufacturer's recommendations for all storm sewer other than concrete pipe. For concrete pipe connections without manufactured tees the storm sewer main shall be machine cored and the service sewer connected using non-shrink grout for the void between pipes. The service sewer shall be cut flush with the inside wall of the sewer main and not extend into the inside flow area of the main or otherwise impede flow.

III. SITE PAVING IMPROVEMENTS

STANDARDS

Work shall be completed in accordance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Department of Transportation, State of Illinois, (latest) edition.

SUBGRADE PREPARATION

The CONTRACTOR shall be responsible for all subgrade compaction and preparation to ±0.1-foot of the proposed subgrade elevation with the average subgrade elevation to be within ±0.02-feet of the proposed subgrade grade elevation.

BITUMINOUS BASE COURSE

Bituminous base course shall be installed where shown on the PLANS and shall have a Marshall stability of 750 or greater.

AGGREGATE BASE COURSE TYPE 'B'

Compacted aggregate base course type "B" shall be constructed using IDOT Type CA-6 materials and shall be placed where shown on the PLANS.

BITUMINOUS CONCRETE, BINDER AND SURFACE COURSE

Bituminous pavement shall consist of bituminous concrete binder and surface courses, IDOT Hot-Mix Asphalt, to the compacted thickness as shown on the PLANS. The base course shall be cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY. The bituminous concrete surface course shall be placed after the base course has gone through one winter season, or as directed by the CLIENT. Before applying the surface course, the binder course shall be thoroughly cleaned and primed in accordance with the JURISDICTIONAL GOVERNING ENTITY. Prior to the placement of the bituminous concrete surface, the JURISDICTIONAL GOVERNING ENTITY shall examine the completed pavement, including curb and gutter, and all failures shall be corrected by the CONTRACTOR.

SIDEWALKS

Concrete sidewalks shall be constructed to width and thickness as shown on the PLANS. Sidewalks shall be thickened to a minimum of 6" at all driveways. All sidewalks shall be IDOT Class SI concrete, on aggregate base as shown on the detail. A ½" expansion joint shall be provided when meeting existing sidewalk.

CURB AND GUTTER

Curb and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base course under the curb and gutter. All contraction and expansion joints shall be constructed as per the detail.

CONCRETE PAVEMENTS

Concrete pavements shall be constructed as shown on the PLANS. Slabs and aprons shall be constructed with 6" x 6" - W2.9 x W2.9 welded wire fabric on an aggregate base course Type B. The CONTRACTOR shall sawcut joints in concrete pavements immediately after installation.

CONCRETE CURB REMOVAL AND REPLACEMENT

The CONTRACTOR shall saw cut and remove the existing concrete curb where shown on the PLANS and install a curb of similar cross section and pavement to that removed (or depressed curb and gutter if shown on the PLANS). Upon completion of the curb all voids, if any, between the existing pavement and the new curb shall be filled with concrete to within 2" of the final surface, which is to be filled with bituminous pavement. The area behind the curb shall be filled and compacted with embankment material within 6" of the top of the new curb. The CONTRACTOR shall then restore the remaining 6" to its original condition (i.e., sod, gravel, topsoil). Where proposed curb connects to an existing curb, the existing curb shall be saw cut and then two 18" long x ¾" (#6) dowel bars shall be drilled and installed 9" into the existing and proposed curb. Bars shall be installed in a location similar to the expansion joint in the curb.

PROOF ROLLING

The CONTRACTOR shall provide a fully loaded vehicle approved by the CLIENT or JURISDICTIONAL GOVERNING ENTITY and proof roll as follows. The CLIENT and JURISDICTIONAL GOVERNING ENTITY shall observe and approve the proof rolling of the subgrade and the base course. Proof rolling tolerances shall be a maximum deflection of ½" for the subgrade and ¼" for the base course. The above criteria is intended as a maximum deflection standard and that proof rolling of a majority of the area will have less deflection than specified above. In any case of deficiency, the subgrade and/or base course shall be repaired and recessed before proceeding with the pavement construction.

PAVEMENT MARKING - PAINT

The CONTRACTOR shall furnish and apply painted marking lines, letters & symbols of the patterns, sizes and colors where shown on the PLANS. Paint pavement marking shall be applied in accordance with the IDOT Standard Specifications.

PAVEMENT MARKING - THERMOPLASTIC

The CONTRACTOR shall furnish and apply extruded thermoplastic pavement marking lines, letters and symbols of the patterns, sizes and colors where shown on the PLANS. Thermoplastic pavement marking shall be installed in accordance with the IDOT Standard Specifications.

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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

SPECIFICATIONS

Drawing

Drawn by: SWL

Checked by: BJA

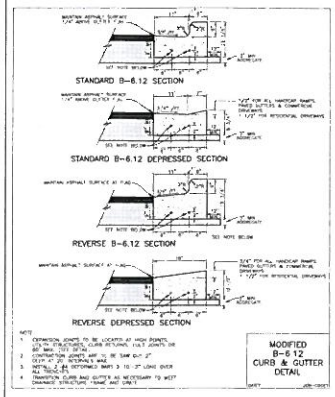
Date: Dec 21, 2012

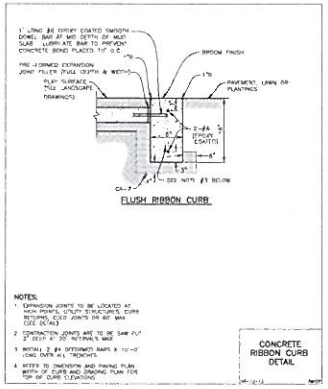
Stamp: Exp 11.30.2013

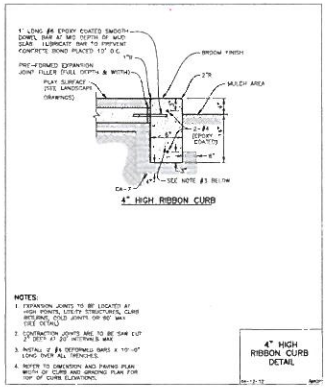
North

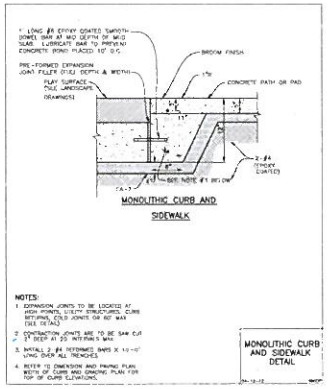
C-600

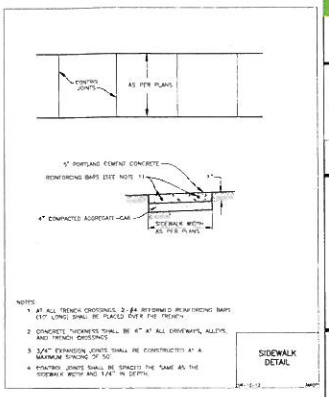
Sheet Number

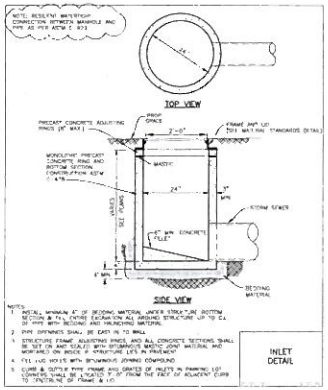


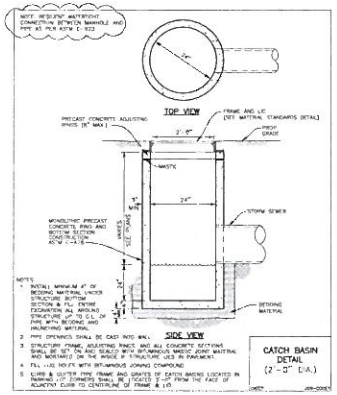


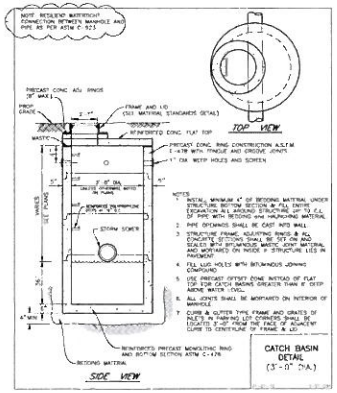


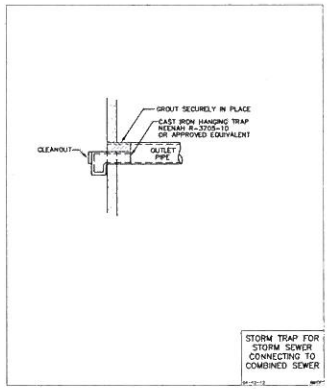


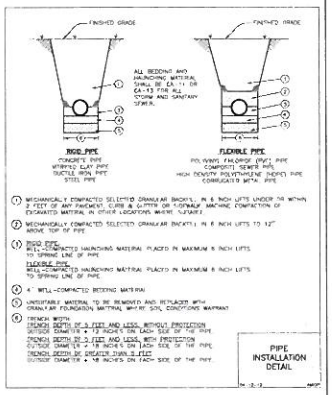


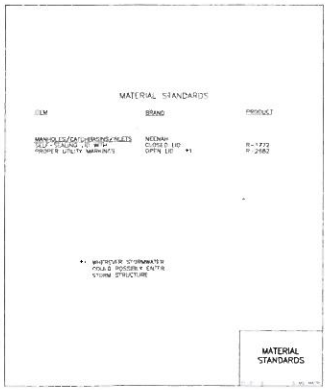


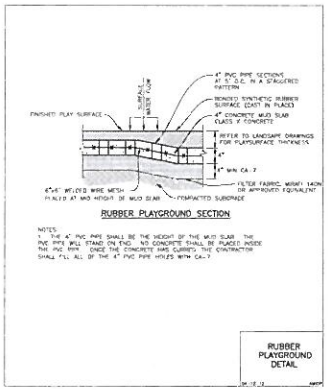


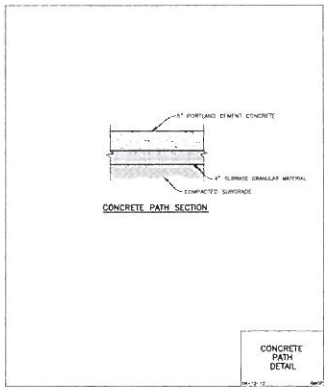


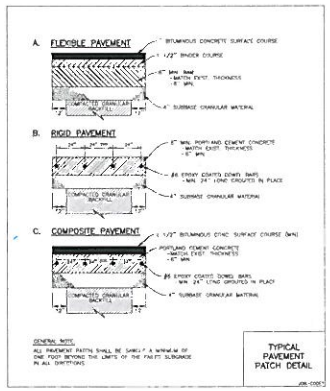












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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

DETAILS

Drawing

Drawn by: SWL

Checked by: BJA

Date: April 27, 2012

Stamp: Exp 11.30.2013

North

C-601

Sheet Number

PROJECT NAME
SOIL EROSION AND SEDIMENT CONTROL PLAN
CONSTRUCTION SITE ACTIVITIES

I. SITE DESCRIPTION

A. The site consists of ______ acres of vacant agricultural and wooded land with existing slopes ranging from 1 to 25 percent grade. The site is to be developed into a ______ lot subdivision with a detention/sediment control basin.

B. The site construction activities will consist of topsoil stripping, clay excavation, clay fill, and grading activities to subgrade the site for construction of a building, parking lot and utility improvements to serve the proposed development – OR – public utility and roadway improvements for a proposed subdivision.

C. The project will include ______ acres to be developed into ____ lots, ____ acres of roadway improvements, and a ____ acre-feet stormwater management facility, of which all areas will be disturbed during construction operations.

D. The existing uncropped site has a runoff coefficient of CN=74; upon completion and stabilization of all site improvements, building(s), appurtenances, and lawns, the runoff coefficient will be CN=85. According to the geotechnical investigation, site soils consist mostly of clay and topsoil material.

E. The Soil Erosion and Sediment Control Plan depicts soil erosion control features and methods to be used during and after construction of all public improvements and until stabilization of the site with vegetative cover. This plan should be used in conjunction with the approved Grading and Drainage Plan which gives more specific grading information for construction of storm sewers and stormwater management facilities.

F. All surface drainage for this site is to be discharged to the stormwater detention basin constructed as part of this project. The detention basin releases to municipal storm sewers operated by ______________. The ultimate receiving water for this site is ______________.

II. PROPOSED CONTROLS

A. Prior to the start of any construction activities, the contractor (or Owner's representative) shall install gravel construction entrance and erect all perimeter silt fence in accordance with the standard details and shall maintain the silt fence until completion of all grading operations.

B. The construction of the detention facility shall be of primary importance in the grading operation and shall be excavated to the lines and grades shown on the plans. Upon completion of the building, paving and utility construction, the basin shall be fine graded with topsoil and sod/hydroseed in accordance with the Grading and Landscape plans.

C. Upon construction of each inlet, catch basin, or manhole contained in the storm sewer system, each structure specified shall be provided with inlet protection by the underground contractor to remain in place until final stabilization of the site or until the next construction operation.

D. Upon completion of underground and paving construction, the Owner shall elect to stabilize all disturbed areas with topsoil and temporary seeding in accordance with the soil protection chart or continue the maintenance of the erosion control features until completion of all construction.

E. The contractors shall be responsible on a daily basis to clean the mud or debris deposited on the adjacent streets as a result of their construction operations.

III. MAINTENANCE

The contractor shall be responsible for the initial construction of the erosion control measures shown in the plan, and shall be responsible for the maintenance of said facilities in good and effective operating conditions until the completion of his final grading operations after construction of those improvements in his contract. The contractor shall request in writing a release from the Owner for maintenance of the site upon completion of this work. A description of the maintenance procedures shall be added to the Stormwater Pollution Prevention Plan.

IV. INSPECTIONS BY OWNER

A. Qualified personnel (provided by the Owner or Contractor) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5-inch or greater or equivalent snowfall.

B. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

C. Based on the results of the inspection, the description of potential pollutant sources identified in the plan and pollution prevention measures identified in the plan shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within seven (7) calendar days following the inspection.

D. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the stormwater pollution prevention plan, and actions taken shall be made and retained as part of the records for at least three (3) years after the date of inspection.

E. The Owner shall notify the IEPA within 24 hours of any incidence of non-compliance for any violation of the NPDES observed during any inspection conducted. The Owner shall complete and submit within five days an evidence of Non-Compliance (ION) report for any violation of the NPDES Permit observed during any inspection conducted, including those not required by the plan. Submission shall be on forms provided by the IEPA and shall include specific information on the cause of non-compliance, actions which were taken to prevent further causes of non-compliance and a statement detailing any environmental impact which may have resulted from the non-compliance.

V. CONTRACTORS

A. All contractor(s) or subcontractor(s) that will implement any stormwater pollution prevention measures shall be clearly identified for each measure. All contractors and subcontractors identified must sign a copy of the certification statement in paragraph B below. All certifications must be included in the records except for Owners that are acting as contractor.

B. Certification Statement. All contractors and subcontractors identified to implement or maintain a stormwater pollution prevention measure shall sign a copy of the following Certification Statement before conducting any service of the PROJECT NAME site located at MILWAUKEE AVE AND HALF DAY ROAD in the VILLAGE OF VERNON HILLS ILLINOIS.

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR100000) that authorizes the stormwater discharges associated with industrial activity from the construction site identified as part of this certification.

The certification must include the name and title of the person providing the signature; the name, address, and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

PROJECT NAME
MILWAUKEE AVE AND HALF DAY ROAD
VILLAGE OF VERNON HILLS, ILLINOIS
NPDES CONTRACTOR CERTIFICATION

Certification Statement. All contractors and subcontractors identified to implement or maintain a stormwater pollution prevention measure shall sign a copy of the following Certification Statement before conducting any service of the site located at ______________.

I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the stormwater discharges associated with industrial activity from the construction site identified as part of this certification.

Name ______________ Company ______________

Title ______________ Address ______________

Signature ______________ Telephone ______________

Date ______________ Name ______________

PROJECT NAME
MILWAUKEE AVE AND HALF DAY ROAD
VILLAGE OF VERNON HILLS, ILLINOIS
NPDES OWNER CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name ______________ Company ______________

Title ______________ Address ______________

Signature ______________ Telephone ______________

Date ______________ Name ______________

NOTE:
CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF CONSTRUCTION FENCING TO ENSURE THE CONSTRUCTION SITE IS SECURE.

SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

1. ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL".
2. MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.
3. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE IMMEDIATELY.
4. INSTALL ALL PERIMETER SILT FENCING PRIOR TO ANY CLEARING OR GRADING. ONSITE SEDIMENT CONTROL MEASURES AS SHOWN AND SPECIFIED BY THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STRIPPING, EXCAVATION OR FILLING ACTIVITIES ON THE SITE.
5. DISTURBED AREA SHALL BE STABILIZED BY SEEDING AT A MINIMUM, WITHIN SEVEN (7) DAYS OF COMPLETION OF DISTURBANCE UNLESS THE AREA WILL BE DISTURBED WITHIN FOURTEEN (14) DAYS AND GRASS SOWN AS NECESSARY TO RE-ESTABLISH VEGETATION FOR CONTROL OF SILTATION AND SOIL EROSION.
6. TEMPORARY SEED MIXTURE SHALL BE APPLIED AT 64 LBS/ACRE.
7. FILTER FABRIC OR AN INLET PROTECTION DEVICE SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURES. FABRIC SHALL BE CUT LARGE ENOUGH SUCH THAT THE ENTIRE GRATE IS COVERED WITH 24" MIN OVERHANG TO COLLECT SEDIMENT.
8. TOPSOIL STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION FOR EROSION CONTROL UNLESS THEY WILL BE DISTURBED WITHIN FOURTEEN (14) CALENDAR DAYS. ALL SOIL STORAGE PILES SHALL BE PROTECTED FROM EROSION WITH SILT FENCE ON THE DOWN SLOPE SIDE OF THE PILES.
9. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
10. WATER PUMPED DURING CONSTRUCTION OPERATION SHALL BE FILTERED.
11. STREET CLEANING TO COLLECT ALL DEBRIS IN THE STREET CAUSED BY THE CONSTRUCTION ACTIVITIES SHALL BE PERFORMED ON A DAILY BASIS USING A STREET SWEEPER.
12. DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPERSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROVIDE A UNIFORM RATE OF APPLICATION.
13. TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED, ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRUCKED ONTO PUBLIC ROADWAYS. ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
14. ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
15. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.
16. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.

CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
2. PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
3. COMPLETE DEMOLITION ACTIVITIES IN ACCORDANCE WITH THE PLAN.
4. CUT AND FILL SITE TO PLAN SUB-GRADE.
5. CONSTRUCT UNDERGROUND IMPROVEMENTS, i.e. SANITARY SEWER WATERMAIN AND STORM SEWER**, ETC.
6. CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN.
7. COMPLETE CONSTRUCTION OF SITE WITH PERMANENT STABILIZATION.
8. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

** INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.

SOIL PROTECTION CHART

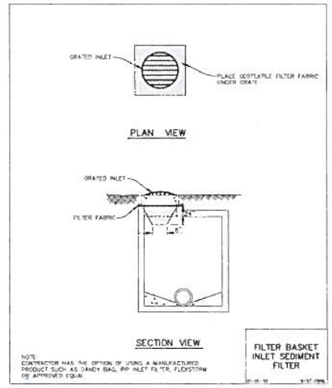
STABILIZATION CHART	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDINGS			A									
DORMANT SEEDINGS	B											
TEMPORARY SEEDINGS			C		D							
SODDING			E									
MULCHING	F											

A - KENTUCKY BLUEGRASS 90 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 30 LBS./AC.
B - KENTUCKY BLUEGRASS 135 LBS./AC. MIXED WITH PERENNIAL RYEGRASS 45 LBS./AC. + 2 TONS STRAW MULCH PER ACRE
C - SPRING OATS 100 LBS./AC.
D - WHEAT OR CEREAL RYE
E - SOD (NURSERY GROWN KENTUCKY BLUEGRASS)
F - STRAW MULCH 2 TONS PER ACRE
* IRRIGATION NEEDED DURING JUNE, JULY AND SEPTEMBER
** IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SODDING

LEGEND

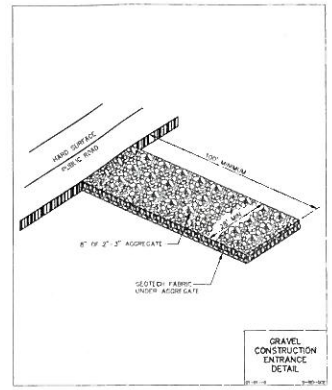
—S——S—	TEMPORARY SILT FENCE (PERIMETER EROSION BARRIER)
——O——	TREE PROTECTION FENCE
(box)	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
(symbols)	INLET FILTER PROTECTION
——→	PAVEMENT DRAINAGE FLOW
~~→	SWALE DRAINAGE FLOW
— — —	LIMITS OF DISTURBANCE/CONSTRUCTION

"THESE EROSION CONTROL PLANS ARE A PORTION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) TOTAL REQUIREMENTS FOR A COMPLETE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRE BY THE GENERAL NPDES PERMIT NO. ILR10. CLIENT AND/OR CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND COMPILATION OF THE COMPLETE SWPPP."

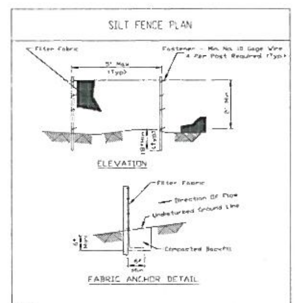


NOTE:
CONTRACTOR HAS THE OPTION OF USING A MANUFACTURED PRODUCT SUCH AS DANDY BAG, IPP INLET FILTER, FLEXSTORM OR APPROVED EQUAL.

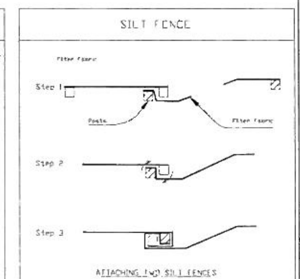
FILTER BASKET INLET SEDIMENT FILTER



GRAVEL CONSTRUCTION ENTRANCE DETAIL



NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.



NOTES:
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Drive both posts a minimum of 18 inches into the ground and bury the flap.

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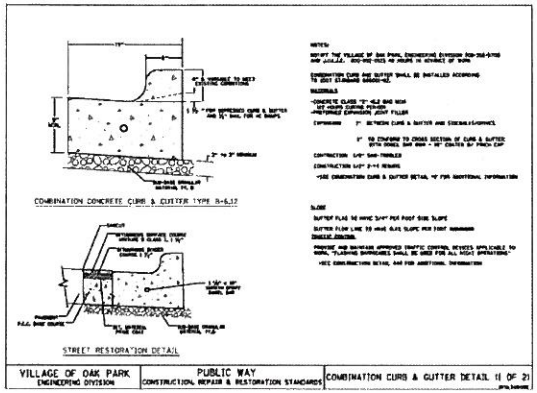
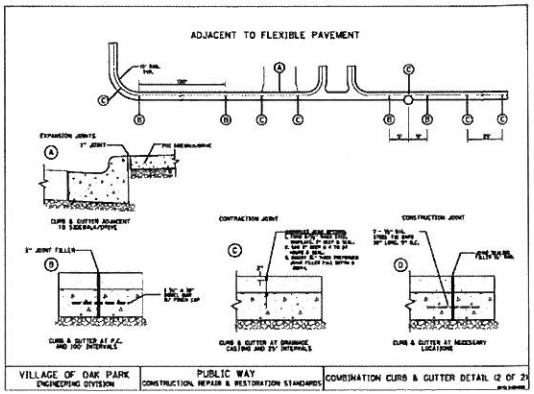
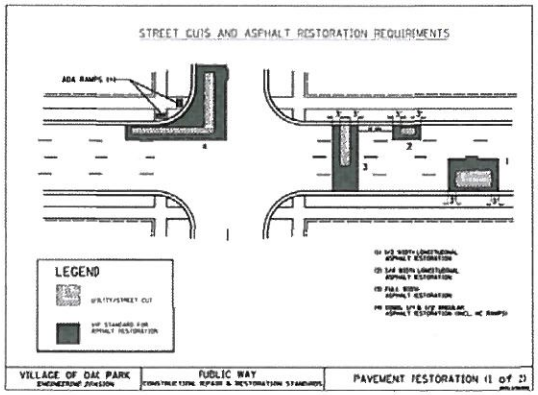
Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

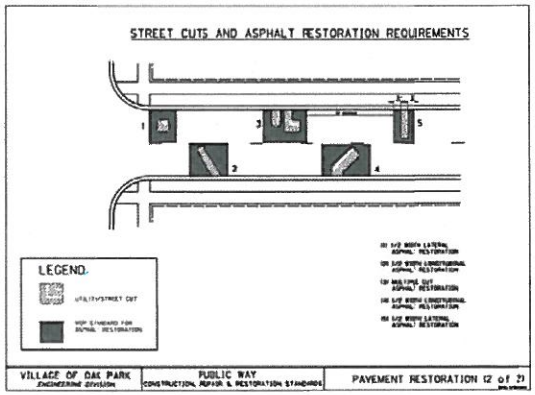
Drawing: SOIL EROSION CONTROL DETAILS

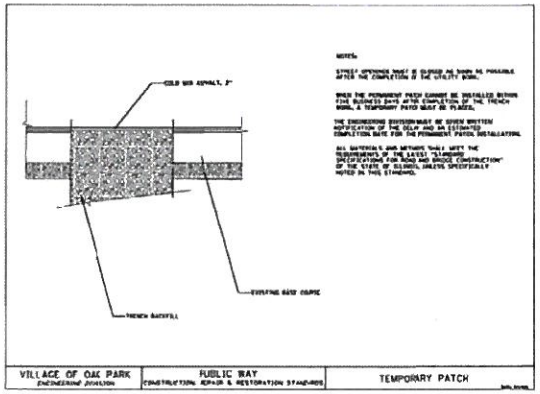
Drawn by: SWL
Checked by: BJA
Date: Dec 21, 2012
Stamp: Exp 11.30.2013
North
Sheet Number: C-602

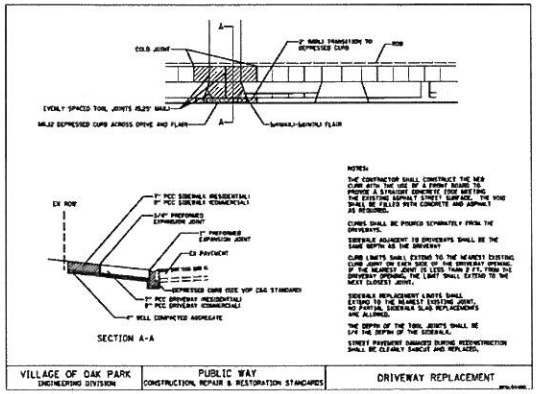












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OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Project

VILLAGE DETAILS

Drawing

Drawn by: SWL

Checked by: BJA

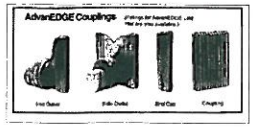
Date: April 27, 2012

Stamp: Exp 11.30.2013

North

C-603

Sheet Number

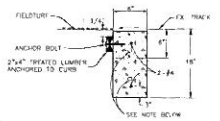


NOTES:

1. ADVANEDGE UNDERDRAIN TO BE INSTALLED ON PROPOSED SUBGRADE.
2. LATERALS TO BE INSTALLED AT 20' SPACINGS.
3. UNDERDRAIN TO BE WRAPPED IN FILTER FABRIC

ADVANEDGE DETAIL

BARRIER CURB

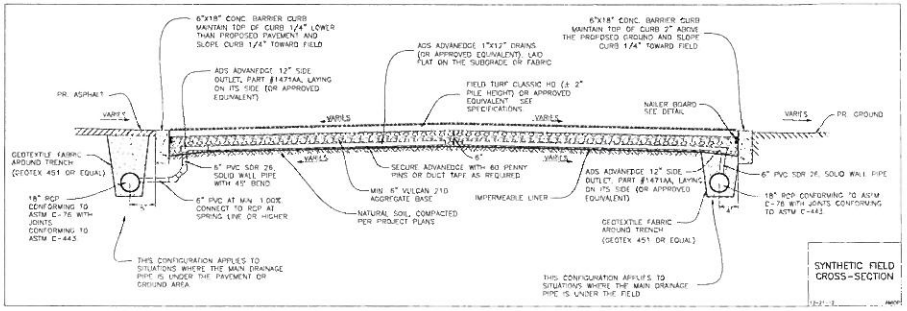


NOTES:

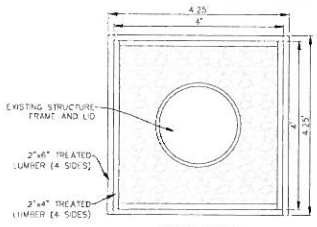
1. EXPANSION JOINTS TO BE LOCATED AT COLD JOINTS OR 80' MAX AND 2-#6 SMOOTH EPOXY COATED BARS SHALL BE PROVIDED AT ALL EXPANSION JOINTS.
2. CONTRACTION JOINTS ARE TO BE SAW CUT 2" DEEP AT 20' INTERVALS MAX
3. INSTALL 2-#4 DEFORMED BARS, CONTINUOUS AND EPOXY COATED.
4. 3" MIN COURSE AGG. BASE UNDER CURB
5. 6" CONC. BARRIER CURB TO BE 1/4" BELOW TRACK
6. 6" CONC. BARRIER CURB TO BE SLOPED 1/4" TOWARDS FIELD
7. 0.594" (15MM) TRACK SURFACE TO BE POURED OVER CURB. CONTRACTOR TO MATCH EX COLOR AND MATERIAL AND SEAL JOINT

*ONLY REQUIRED IF TRACK RE-SURFACING (RS ALT.) IS CHOSEN

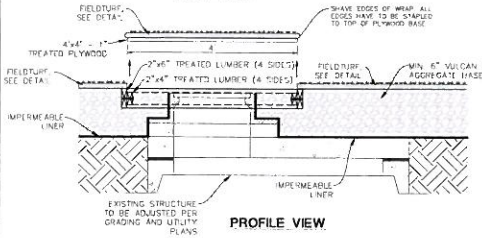
SYNTHETIC FIELD BARRIER CURB DETAIL



SYNTHETIC FIELD CROSS-SECTION



PLAN VIEW



PROFILE VIEW

NOTES:

1. SEE GRADING AND UTILITY PLAN FOR RIM AND TURF GRADES.
2. CONTRACTOR SHALL BUILD WOOD FRAME SUCH THAT THE REMOVABLE FIELDTURF PANEL LAYS FLUSH WITH SURROUNDING FIELDTURF UPON INSTALLATION.

REMOVABLE PANEL FOR MANHOLE UNDER FIELD

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Project: OAK PARK ELEMENTARY SCHOOL DISTRICT 97

Drawing: SYNTHETIC FIELD DETAILS

Drawn by: SWL

Checked by: BJA

Date: April 27, 2012

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