

LEGEND:

- ME MATCH EXISTING ELEVATION
- HP HIGH POINT
- 11.77 P TOP OF PAVEMENT ELEVATION
- 11.77 G GROUND ELEVATION
- 11.77 SW TOP OF SIDEWALK ELEVATION
- 11.77 RIM RIM ELEVATION
- 7.45 EXISTING CONTOUR LINE
- 7.45 PROPOSED CONTOUR LINE
- 2.0% SLOPE/FLOW DIRECTION
- OVERLAND FLOW ROUTE
- CATCH BASIN
- MANHOLE

NOTES:

1. CONTRACTOR TO VERIFY ALL EXISTING UTILITY LOCATIONS, SIZES, SLOPES, INVERTS, ETC. AND CONTACT ENGINEER IMMEDIATELY IF THERE ARE ANY CONFLICTS/DISCREPANCIES.
2. CONTRACTOR TO COORDINATE LOCATIONS, SIZE AND INVERTS WITH MEP PLANS.
3. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES EITHER SHOWN OR NOT SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED. MINIMUM PROTECTION FOR TREES SHALL BE 4' SNOW FENCE INSTALLED ALONG THE DRIP LINE OF TREES.
4. CONTRACTOR TO PROTECT ALL EXISTING UTILITIES.
5. ALL EXISTING UTILITY STRUCTURES SHALL BE ADJUSTED AS NECESSARY TO MATCH FINISH GRADE. ALL EXISTING UTILITY STRUCTURES REQUIRING ADJUSTMENT OR RECONSTRUCTION SHALL BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER. ADJUSTMENTS AND/OR RECONSTRUCTIONS NOT CALLED FOR ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. NO MORE THAN A TOTAL OF 12 INCHES OF ADJUSTING RINGS AND/OR 2 ADJUSTING RINGS SHALL BE ALLOWED.
6. ALL SITE WORK SHALL BE IN CONFORMANCE WITH THE ILLINOIS ACCESSIBILITY CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
7. RAMPS SHALL NOT EXCEED A RUNNING SLOPE OF 1:12 (8.33%).
8. MAXIMUM CROSS-SLOPE ON ANY WALK OR RAMPS SHALL BE 2%. ALL ACCESSIBLE PARKING SPACES AND LOADING ZONES SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
9. SEE SWPPP PLAN FOR ALL EROSION AND SEDIMENT CONTROL NOTES, STANDARDS, INSPECTIONS, MAINTENANCE AND PRACTICES THAT NEED TO BE FOLLOWED.

GEOTECH NOTE:

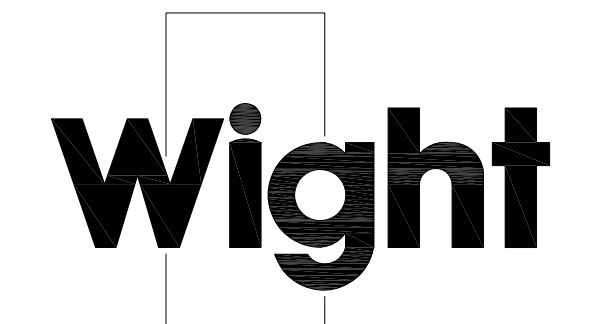
FOLLOW ALL RECOMMENDATIONS, REQUIREMENTS, REMEDIATION, ETC. AS SPECIFIED IN THE "SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT" PROVIDED BY CGMT. ANY DISCREPANCIES BETWEEN THE REPORTS, NOTES AND SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.

EARTHWORK NOTES:

CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT EARTHWORK REQUIREMENTS (CUT, FILL, HAUL IN/OFF, ETC.) TO BRING SITE TO FINISHED GRADE. ANY ON-SITE RE-USE OF ON-SITE DEMOLITION DEBRIS/MATERIALS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.

AS-BUILT NOTES:

THE CONTRACTOR IS RESPONSIBLE FOR ALL AS-BUILT SURVEYS. ALL AS-BUILT SURVEYS SHALL BE COMPLETED BY A PROFESSIONAL LAND SURVEYOR AND BE SIGNED AND SEALED. THE CONTRACTOR SHALL SUBMIT TWO SETS OF THE "AS-BUILT" FINAL ENGINEERING DRAWINGS (I.E. RECORD DRAWINGS) AND STORMWATER MANAGEMENT CALCULATIONS UPON COMPLETION OF IMPROVEMENTS AND INCLUDE ELECTRONIC CAD FILES. THE RECORD DRAWINGS SHOULD AT LEAST INCLUDE THE FOLLOWING INFORMATION: AS-BUILT DETENTION CONTOURS, ELEVATIONS (INCLUDING DETENTION BASIN TOP OF BERM AND OVERFLOW WEIR GRADES) AND VOLUME (VERIFIED, SIGNED, & SEALED BY A PROFESSIONAL ENGINEER (PE) OR PROFESSIONAL LAND SURVEYOR (PLS)); ELEVATION, AND LOCATION (TIES TO TWO POINTS) OF ALL NEW STRUCTURES INCLUDING FIRE HYDRANTS, VALVE BOXES AND VAULTS, LINES/STOP SLEEVES, WATER SERVICE CORPORATION STOPS, WATER MAIN FITTINGS/BENDS, MANHOLES, SANITARY SERVICE WYES (MEASURED FROM DOWNSTREAM MANHOLE), ALL STORM/SANITARY SEWER STRUCTURES (INCLUDING INVERTS AND PIPE SIZES), ALL PIPES (LOCATIONS, SLOPES, LENGTHS, ETC.), OUTLET CONTROL STRUCTURES (INCLUDING RESTRICTOR SIZES AND ELEVATIONS PLUS TOP OF WALL) AND ABANDONED WATER OR SANITARY SERVICE LINES. DETAILED TOPOGRAPHIC SURVEY OF ALL HIGH POINTS, LOW POINTS, CHANGE OF SLOPE INCLUDING GUTTER GRADES, TOP OF CURB GRADES, PAVEMENT GRADES, SIDEWALK GRADES, RAMP GRADES, ETC. TO VERIFY POSITIVE DRAINAGE. ALL ELEVATIONS SHOULD BE REFERENCED TO THE SAME BENCHMARK DATUM AS THE ORIGINAL DESIGN PLANS. HORIZONTAL TIES SHALL BE REFERENCED TO LOT LINES, BACK OF CURB, OR PROPERTY CORNERS. WITHIN DETENTION/BMP AREAS: FOR VERIFICATION OF DETENTION VOLUME AND SUBBASE GRADES, PRIOR TO BACK FILLING WITH CA-7, THE CONTRACTOR SHALL PROVIDE ENGINEER WITH A CERTIFIED TOPO SURVEY OF AS-BUILT SUBBASE GRADES FOR ENGINEER APPROVAL AND ALSO A COPY OF RECEIPT OF THE CA-7 AGGREGATE.



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ADDENDUM 7	4-28-2023
ISSUE FOR BID	4-11-2023
Plan Commission Resub #1	1-18-2023
MWRD SUBMITTAL	12-22-2022
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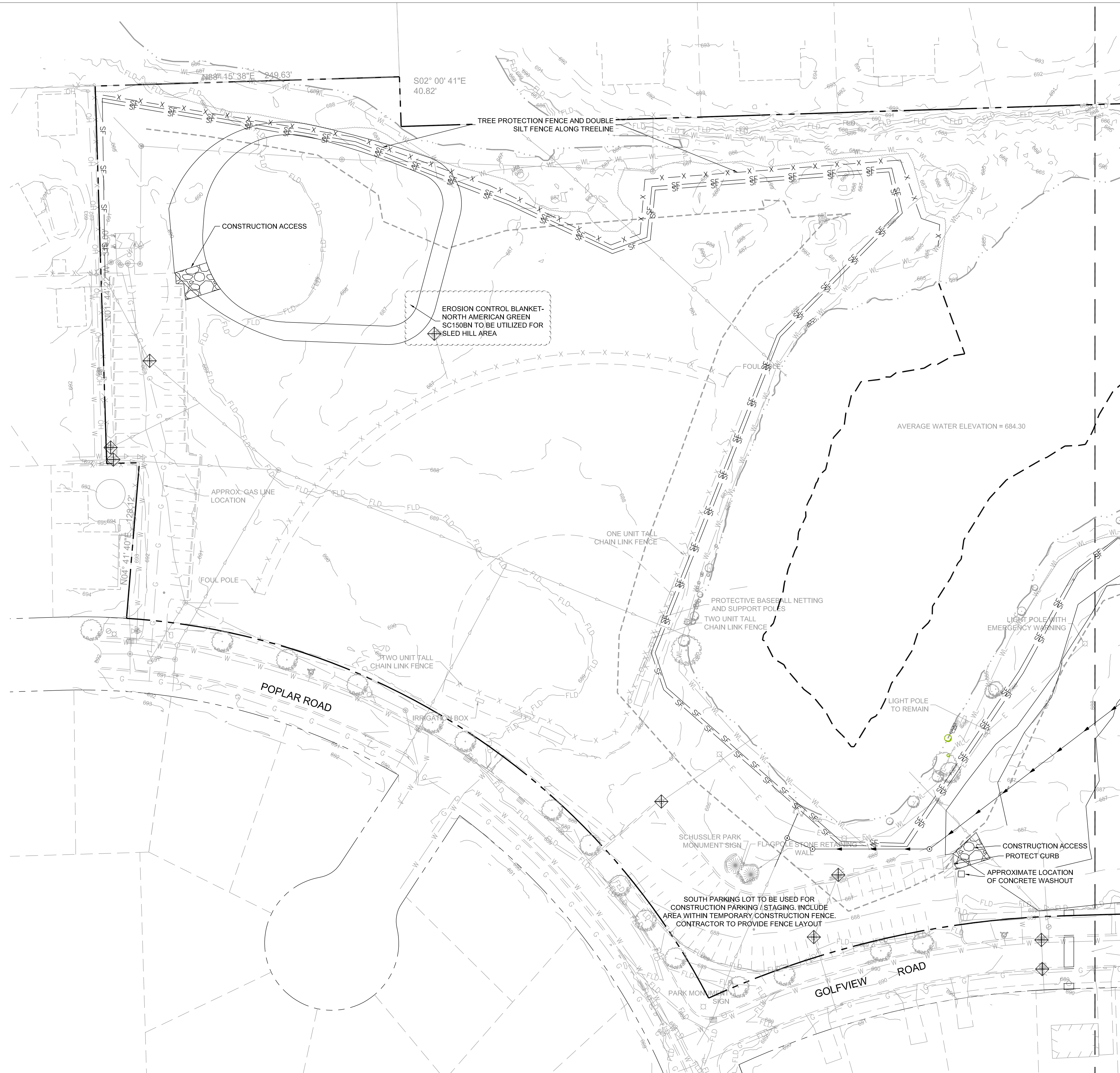
SCHUSSLER PARK

14609 POPLAR ROAD
 ORLAND PARK, IL 60462

GRADING PLAN - EAST

Project Number: 220069
 Scale: 1" = 40'
 Drawn By: EN
 Sheet: C3.01

S:\Darien\Orland Park, Village of\220069_Schussler Park\01\11 Drawings\02 CD\220069 C3.02 EROSION CONTROL PLAN.dwg k buck Apr 28, 2023 8:46:19 am
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LEGEND

- OPEN LID STORM CATCH BASIN
- CLOSE LID MANHOLE
- ◇ INLET PROTECTION
- SF — SILT FENCE

NOTES:

1. THE CONTRACTOR SHALL PROTECT ANY AND ALL TREES EITHER SHOWN OR NOT SHOWN ON THE PLANS UNLESS OTHERWISE SPECIFIED. MINIMUM PROTECTION FOR TREES SHALL BE 4' SNOW FENCE INSTALLED ALONG THE DRIP LINE OF TREES.
2. SEE SWPPP PLAN FOR ALL EROSION AND SEDIMENT CONTROL NOTES, STANDARDS, INSPECTIONS, MAINTENANCE AND PRACTICES THAT NEED TO BE FOLLOWED.

IF STOCKPILING MATERIAL ON SITE, REFER TO SWPPP NOTES AND SWPPP DETAILS FOR EROSION CONTROL MEASURES.

TREE PROTECTION:

TREE PROTECTION ZONE:

- NO TRENCHING OR EXCAVATION WITHIN FENCE AREA
 - TREE PROTECTION ZONE RADIUS BASED ON THE TRUNK DIAMETER AT 4.5 FEET ABOVE GRADE:
- TRUNK DIAMETER TREE PROTECTION ZONE RADIUS:
- 1" TO 9" = 5 FEET
 - 10" TO 14" = 10 FEET
 - 15" TO 19" = 12 FEET
 - OVER 19" = 15 FEET



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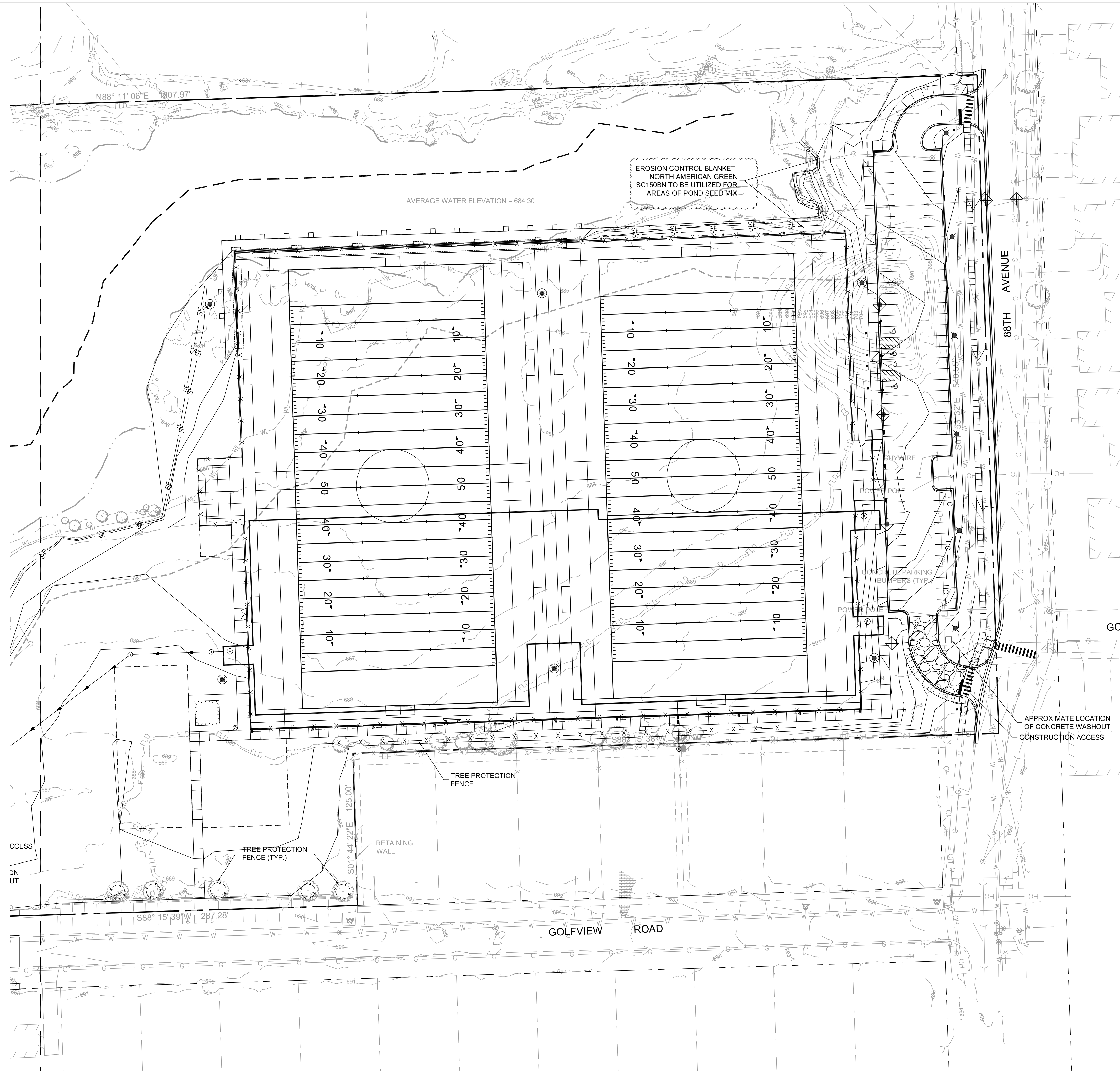
**EROSION CONTROL
 PLAN – WEST**

Project Number: 220069
 Drawn By: XX
 Sheet: **C3.02**

Scale: 1" = 40'
 0' 20' 40' 80'

NORTH

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LEGEND

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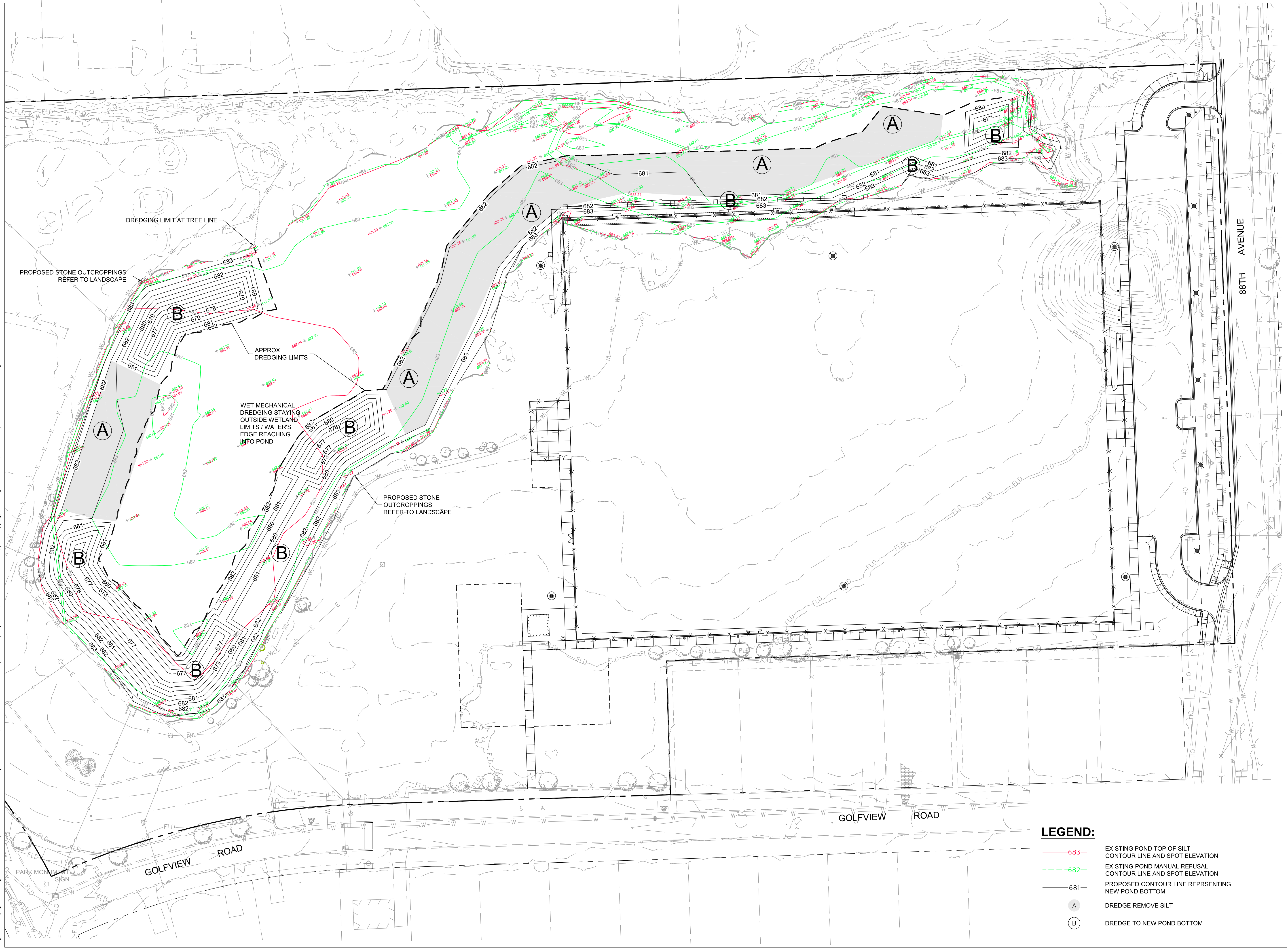
EROSION CONTROL PLAN – EAST

Project Number: 220069
 Drawn By: XX
 Sheet: **C3.03**

Scale: 1" = 40'
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NORTH

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LEGEND:

--- 683	EXISTING POND TOP OF SILT CONTOUR LINE AND SPOT ELEVATION
--- 682	EXISTING POND MANUAL REFUSAL CONTOUR LINE AND SPOT ELEVATION
---	PROPOSED CONTOUR LINE REPRESENTING NEW POND BOTTOM
(A)	DREDGE REMOVE SILT
(B)	DREDGE TO NEW POND BOTTOM



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Response to Q09 & Q10	4-26-2023	
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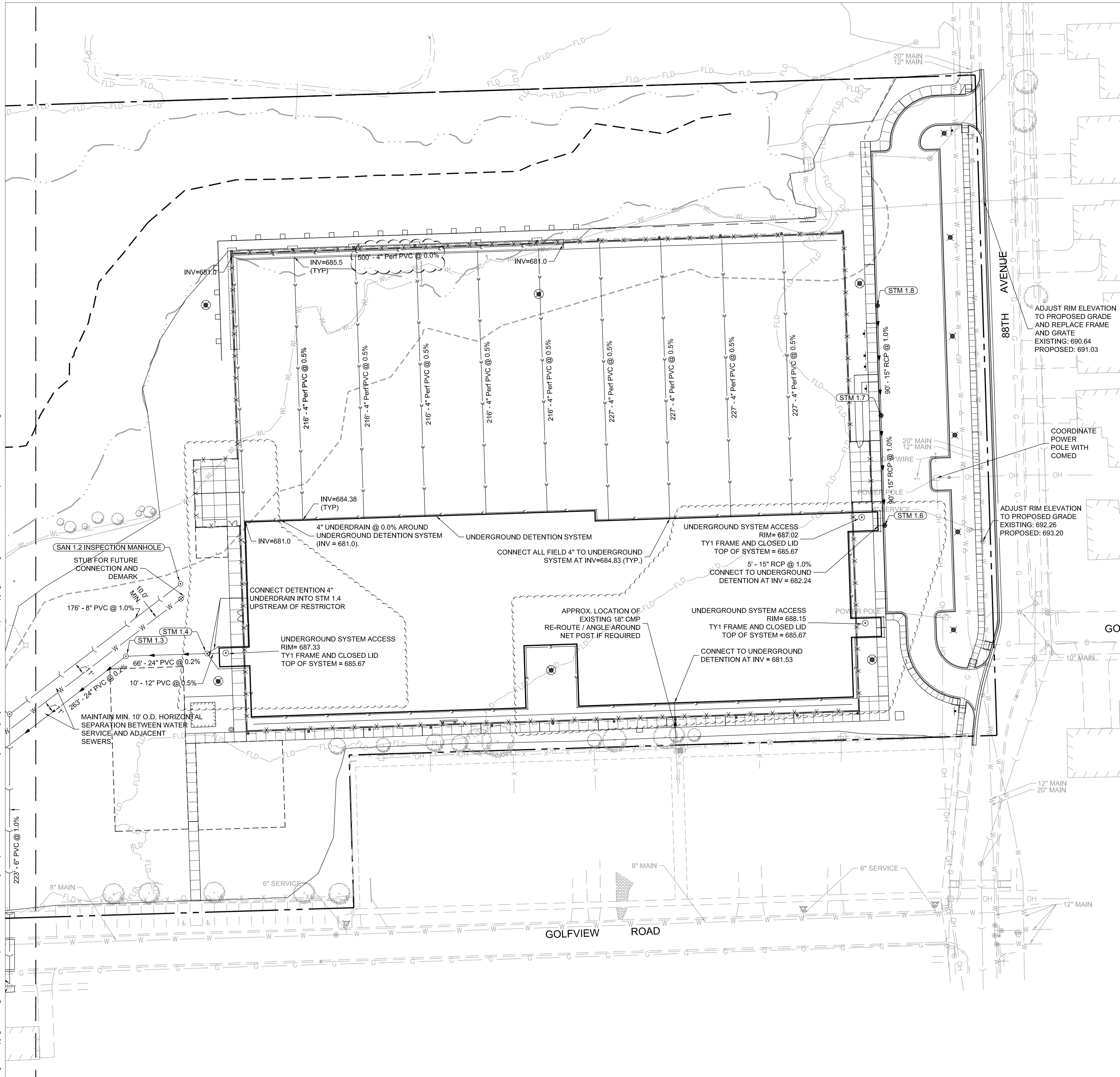
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POND DREDGING PLAN

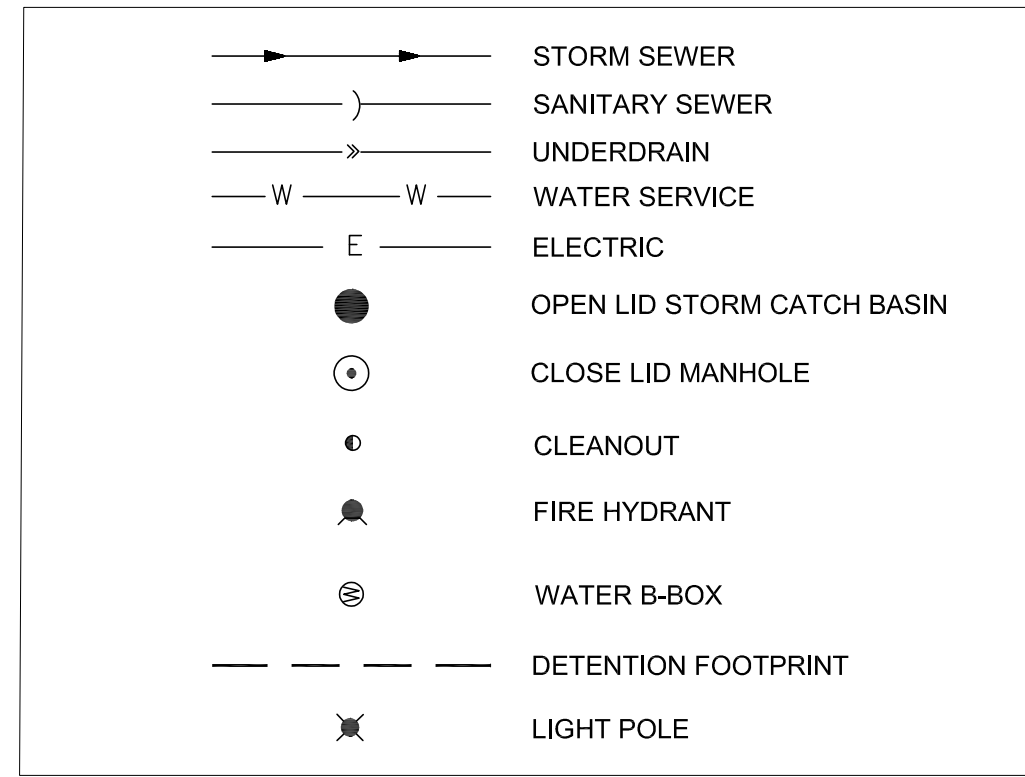
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 Drawn By: KMB
 Sheet: **C3.07**

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LEGEND



UTILITY NOTES:

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- CONTRACTOR TO COORDINATE ALL UTILITY CONNECTIONS AT THE BUILDING WITH THE MEP TO VERIFY CONNECTION LOCATION, PIPE SIZE, AND INVERT.
- CONTRACTOR TO SEE MEP PLANS FOR ALL DETAILS, LOCATION, ROUTING, SIZE, ETC. REGARDING GAS, TELEPHONE, ELECTRIC, AND LIGHTING DESIGN. FOLLOW ALL REQUIREMENTS OF UTILITY PROVIDERS.
- ALL STORM SEWER SHOULD BE PVC SDR 26 WATERMAIN QUALITY.
- ALL SANITARY SEWER SHALL BE WATERMAIN QUALITY PVC CONFORMING TO ASTM D-2241 WITH JOINTS OF ASTM D-3139.

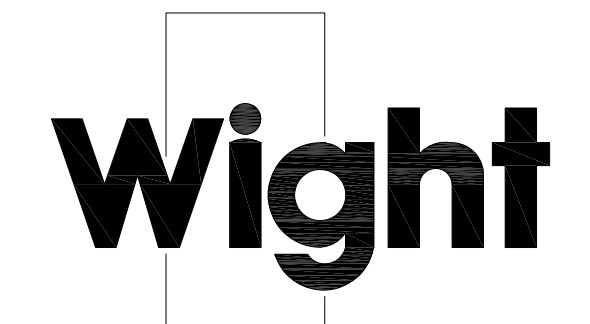
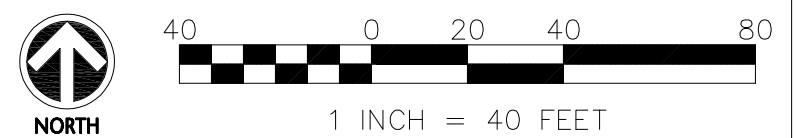
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SANITARY SEWER NOTES

- THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
- A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
- DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
- ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F-DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261, F-2620 (HEAT FUSION) ASTM D-3212, F-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139



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SCHUSSLER PARK

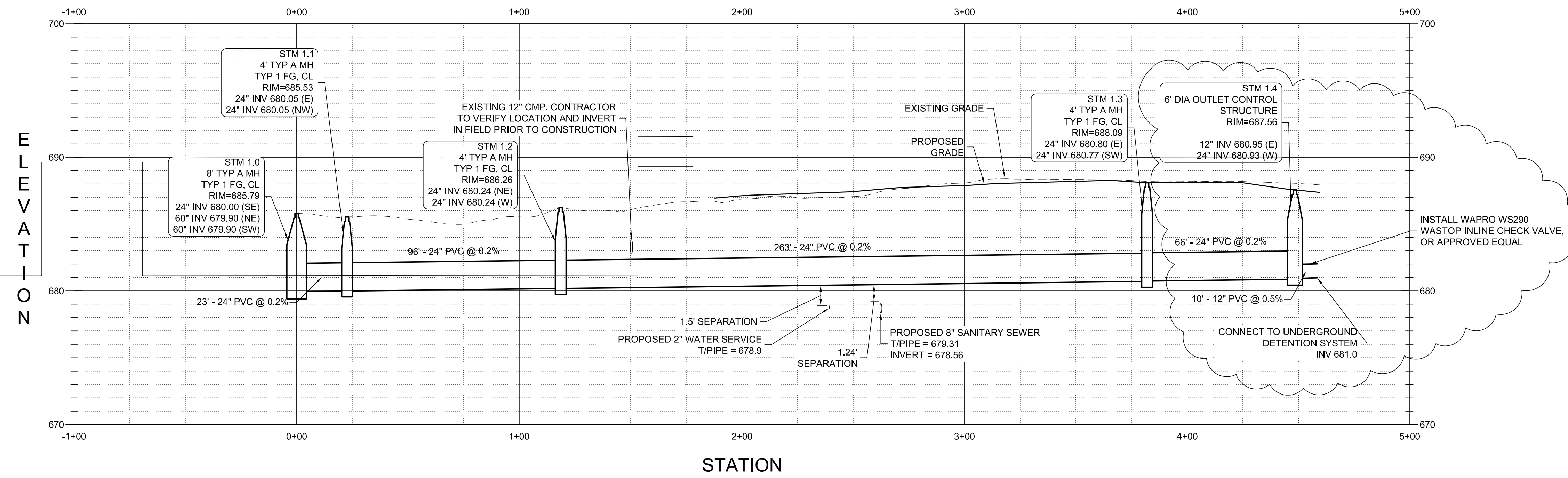
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UTILITY PLAN - EAST

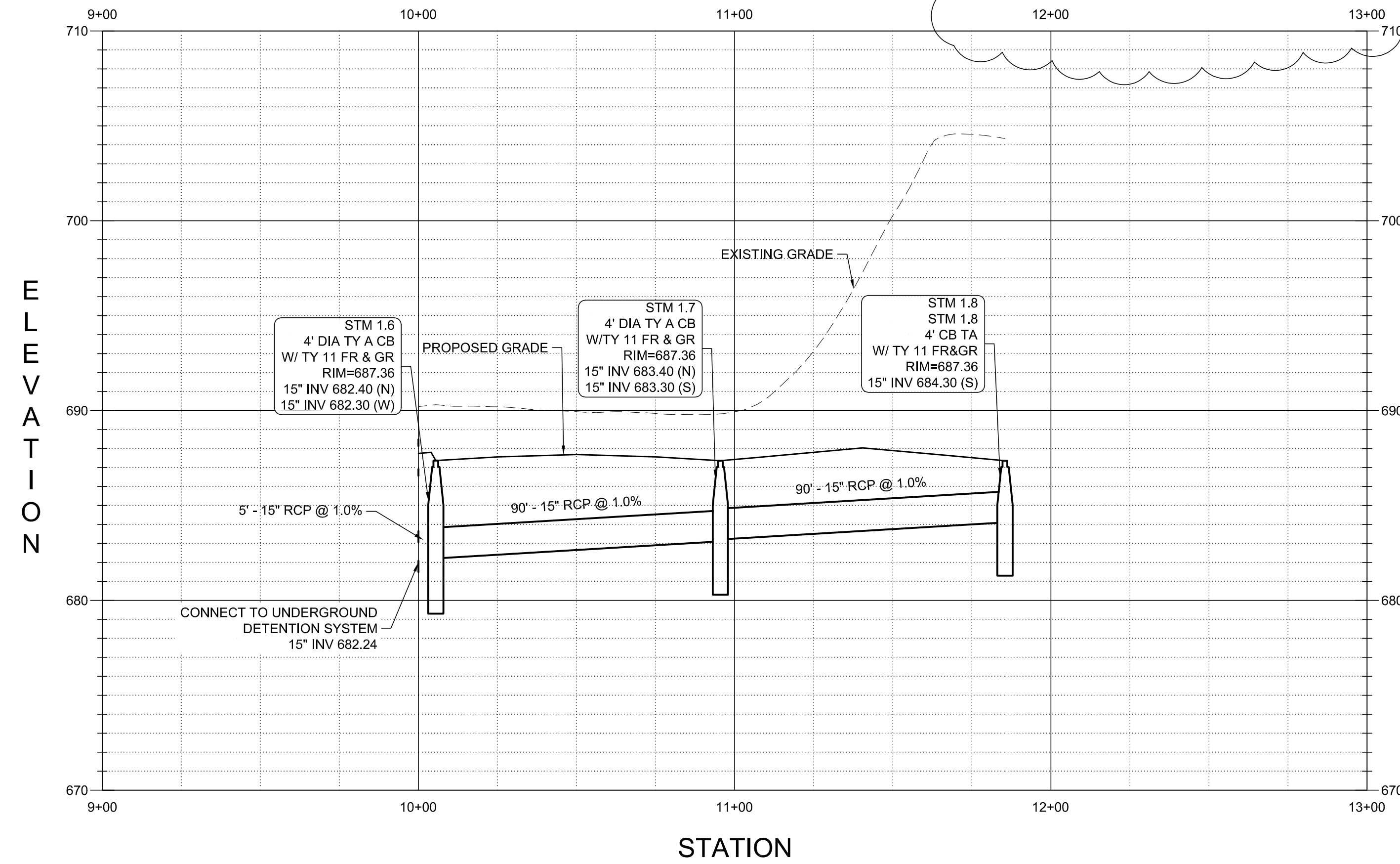
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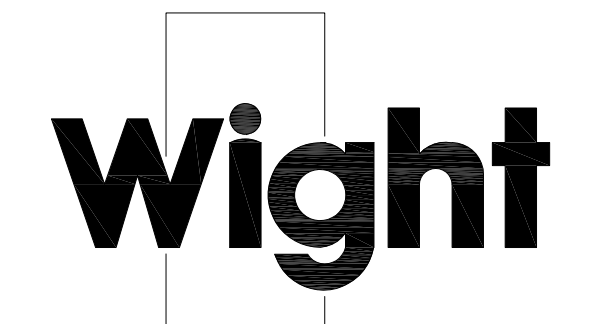
DETENTION CHAMBER OVERFLOW STORM SEWER PIPE PROFILE



PARKING LOT STORM SEWER PIPE PROFILE



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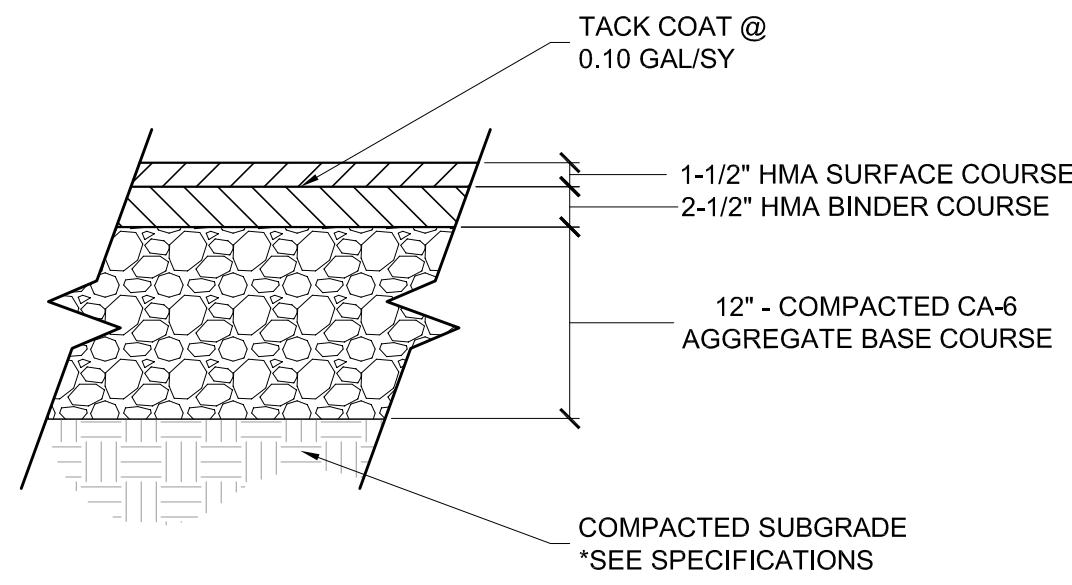
UTILITY PROFILES

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HORIZONTAL SCALE: 1"=30'
VERTICAL SCALE: 1"=5'

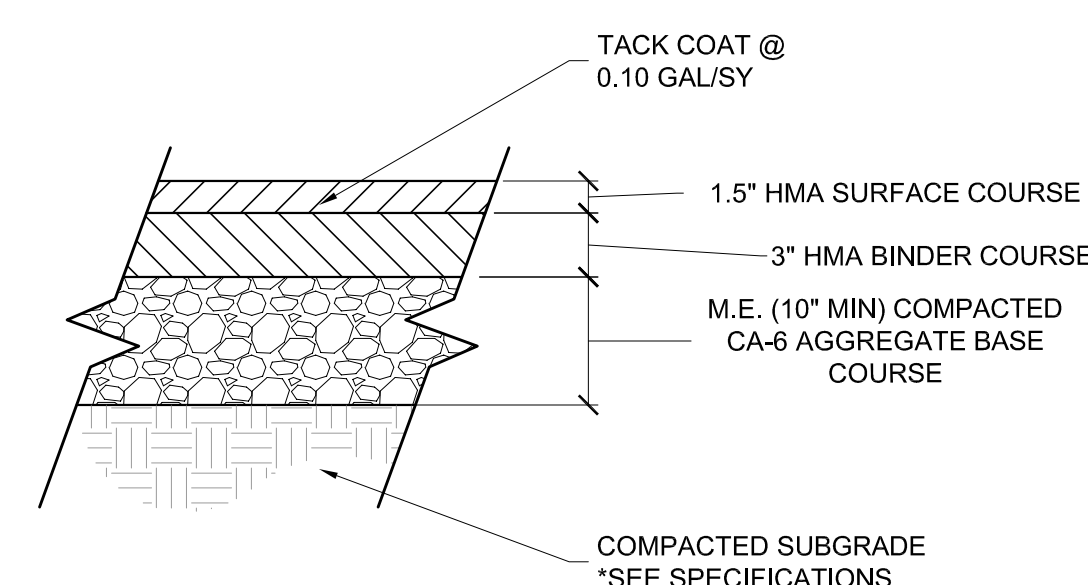
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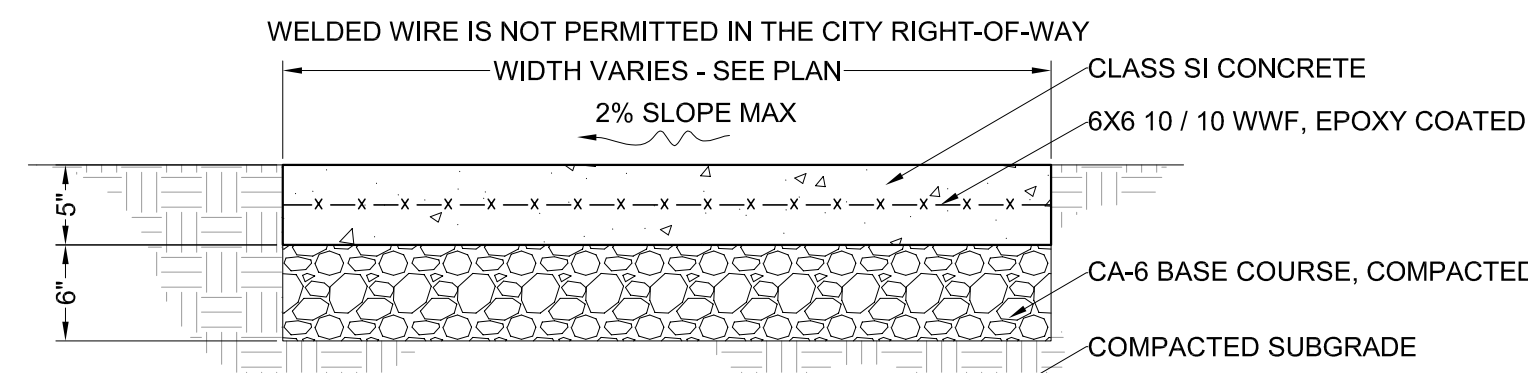
- NOTES:
 1. FOR UNSUITABLE SUBGRADES UNDERCUT 2 ADDITIONAL FOOT MAXIMUM.

① HMA PAVEMENT - FULL DEPTH
 SCALE: NTS



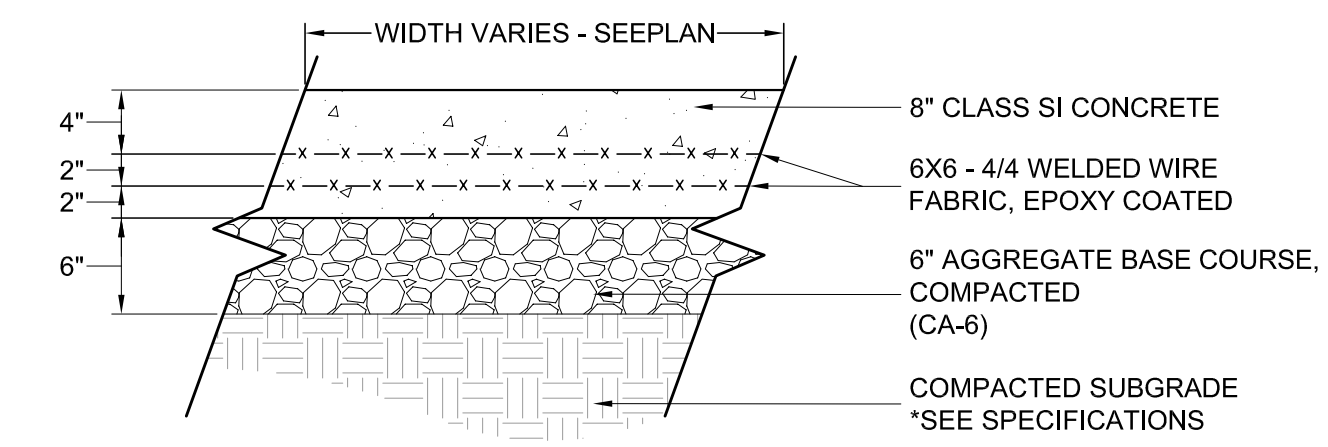
- NOTES:
 1. FOR UNSUITABLE SUBGRADES UNDERCUT 2 ADDITIONAL FOOT MAXIMUM.

② HMA PAVEMENT - ROADWAY SECTION
 SCALE: NTS



- NOTES:
 1. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH IDOT CLASS SI CONCRETE, NOT LESS THAN 3500 P.S.I. CONCRETE AT 14 DAYS.
 2. SIDEWALK THICKNESS CROSS DRIVEWAY SHALL BE A MINIMUM 8\"/>

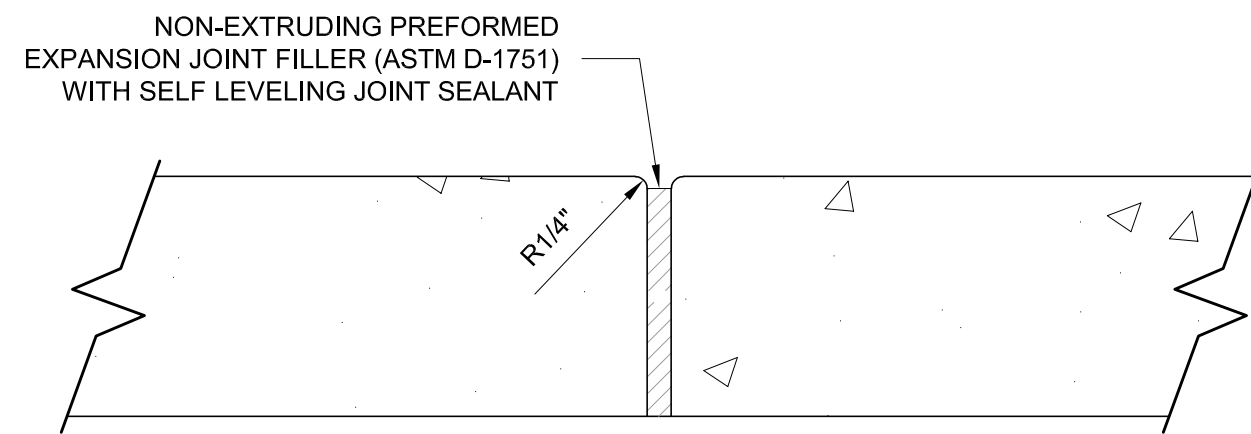
③ PCC SIDEWALK
 SCALE: NTS



- NOTES:
 1. PROVIDE CONTRACTION JOINT EVERY 10' O.C.
 2. PROVIDE EXPANSION JOINT AT LOCATIONS WHERE NEW CONCRETE POURS BEGIN/END.

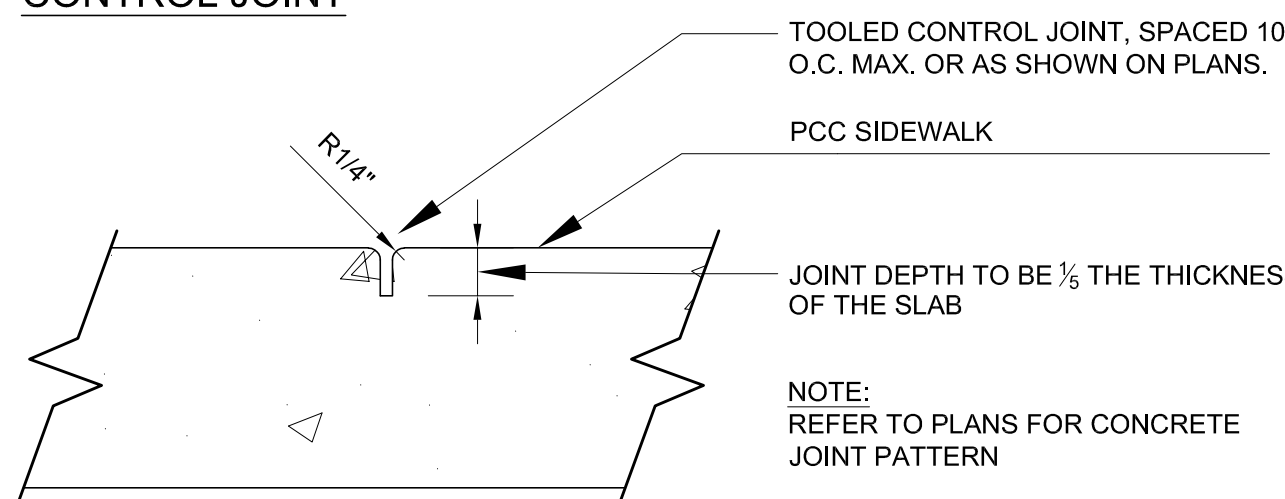
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EXPANSION JOINT

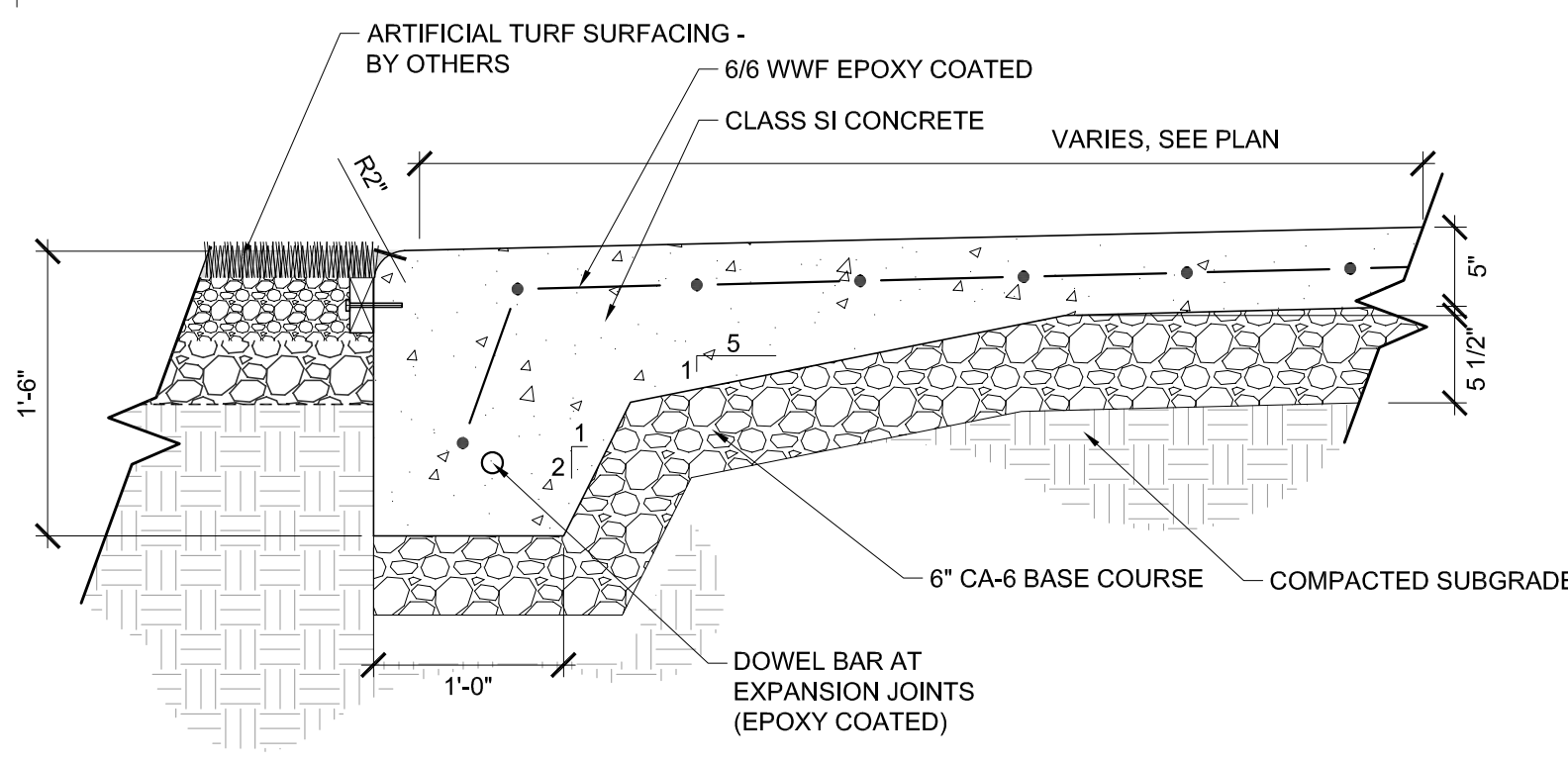


- NOTES:
 1. PREFORMED FLEXIBLE FOAM EXPANSION JOINT FILLER NOT ACCEPTED.
 2. EACH EXPANSION JOINT SHALL HAVE (2) #6x24\"/>

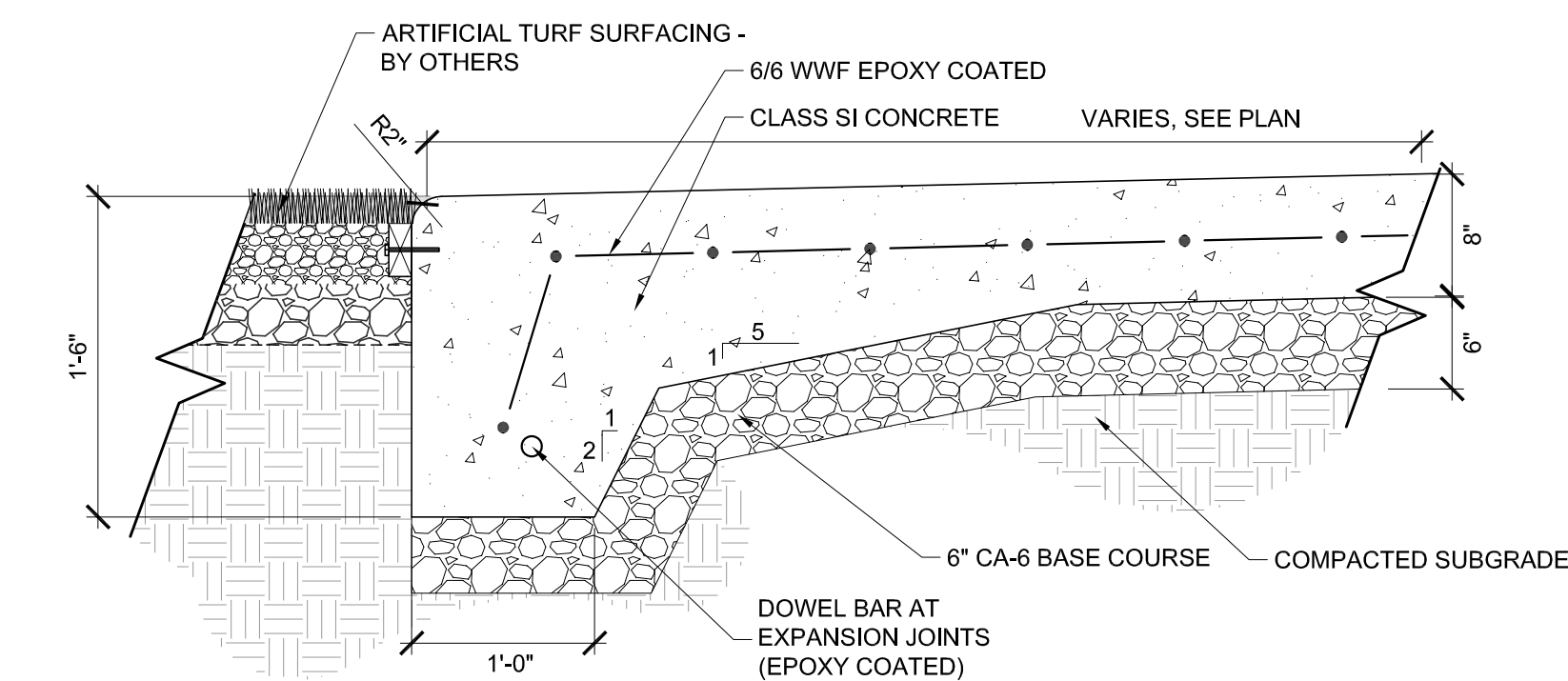
CONTROL JOINT



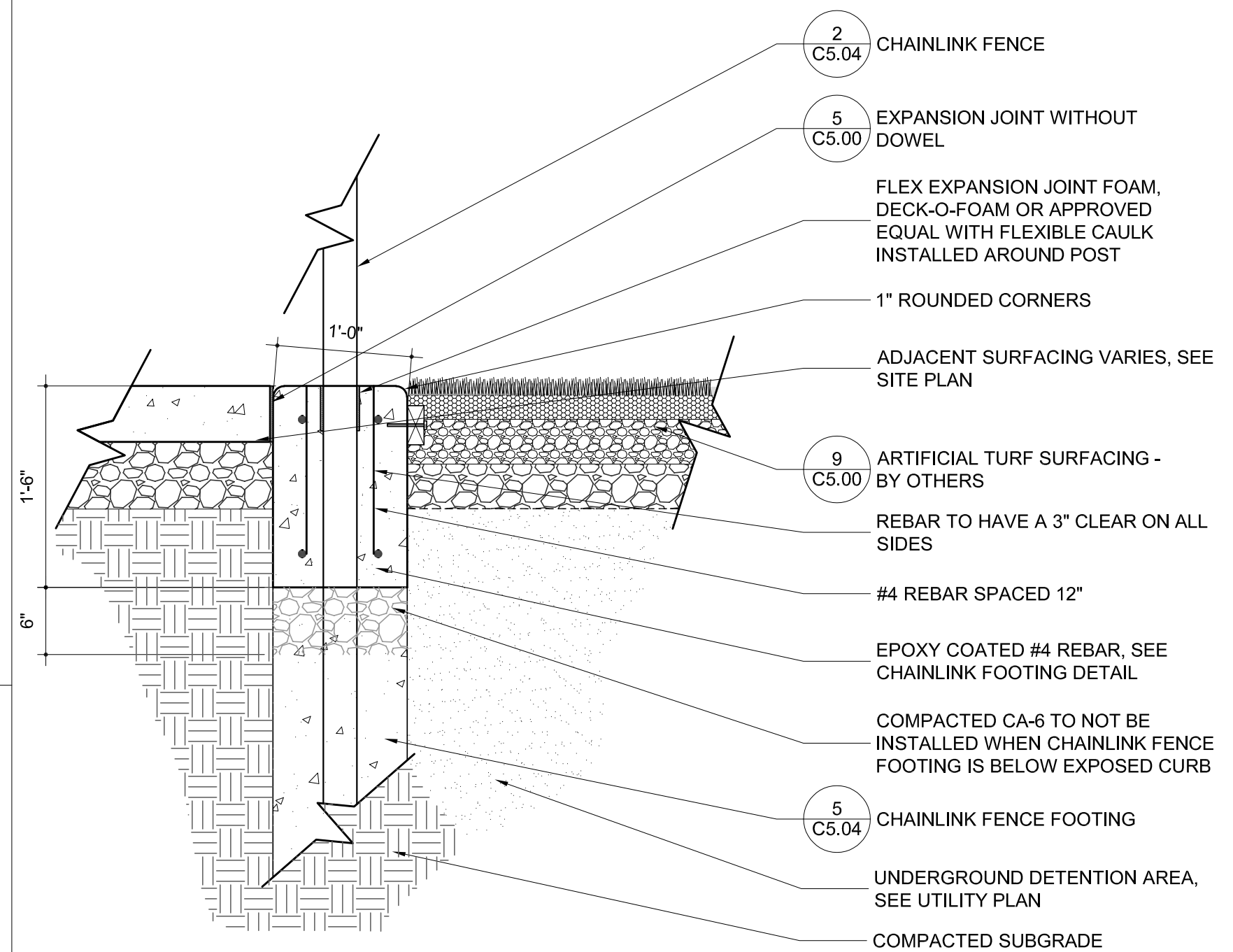
⑤ JOINT DETAILS
 SCALE: NTS



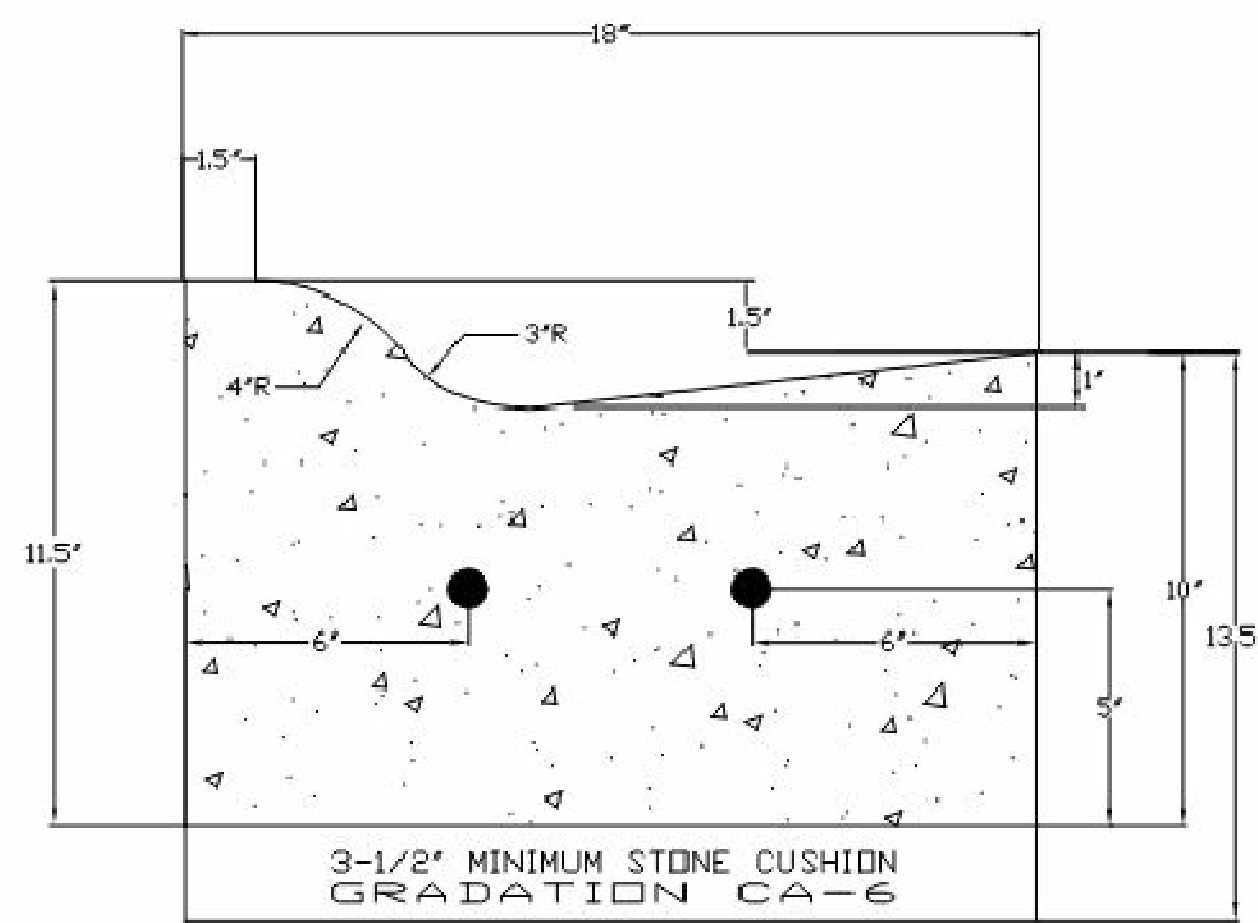
⑥ INTEGRAL CURB
 SCALE: 1"=1'-0"



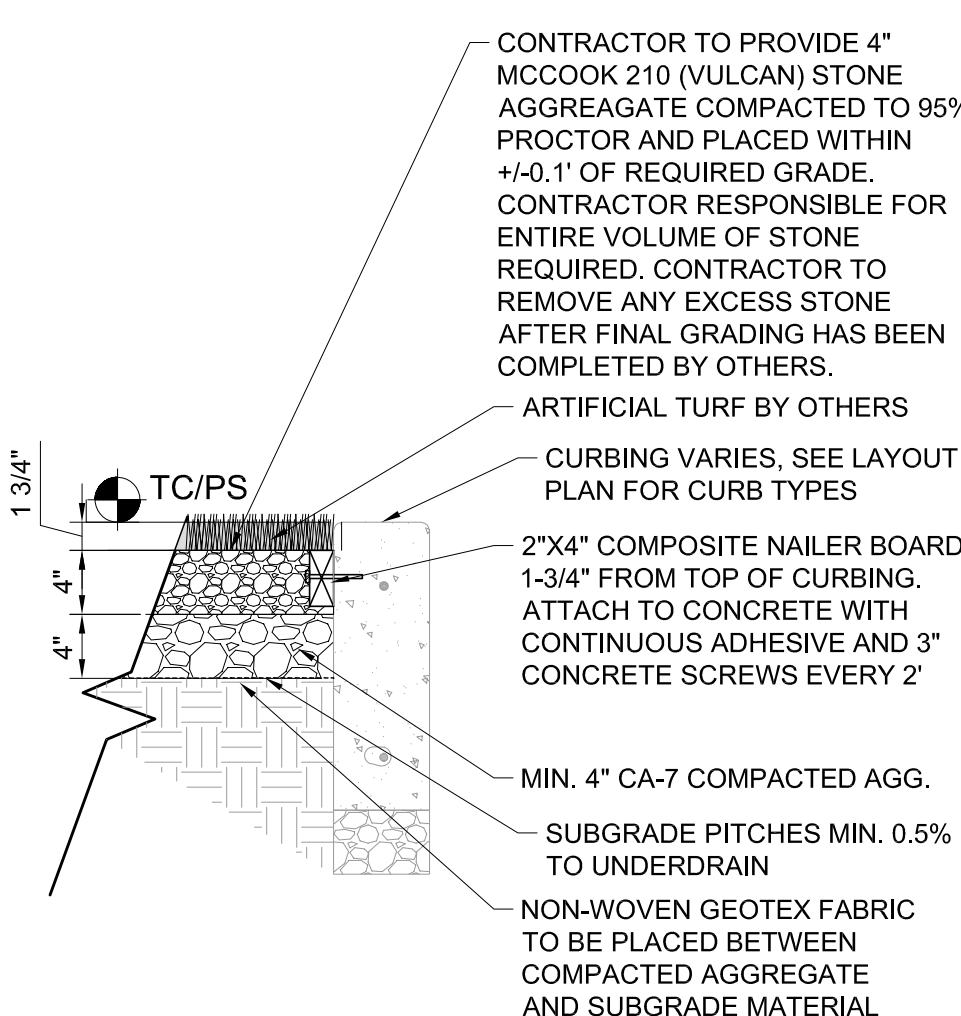
⑦ HEAVY DUTY INTEGRAL CURB
 SCALE: 1"=1'-0"



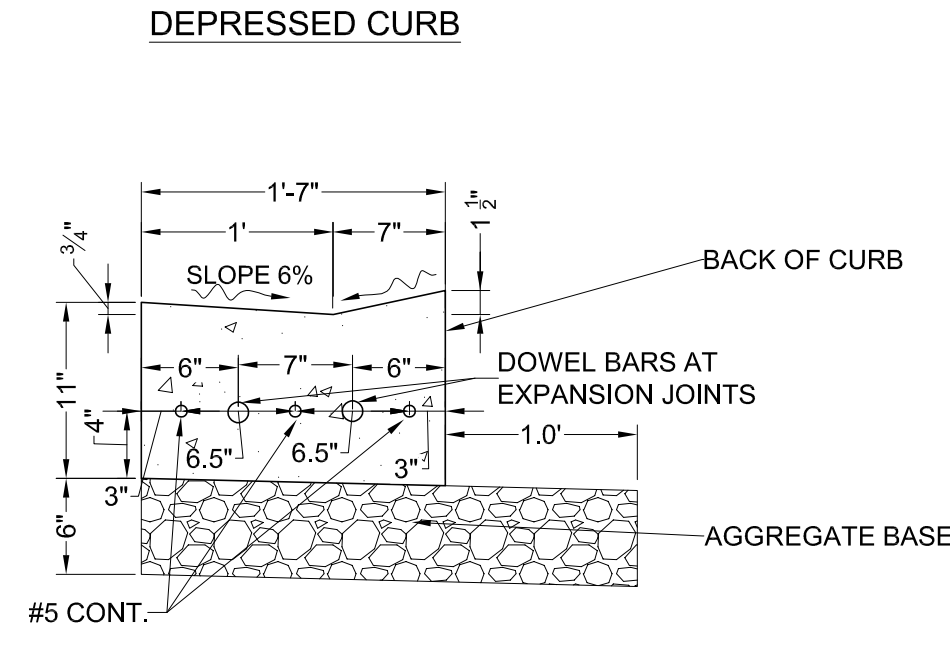
⑧ FLUSH CONCRETE CURB
 SCALE: 1"=1'-0"



- NOTES:
 1. REINFORCEMENT: PROVIDE TWO (2) #4 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS, WITH LOCATION SPACING AS INDICATED ABOVE.
 2. EXPANSION JOINT: 3/4\"/>

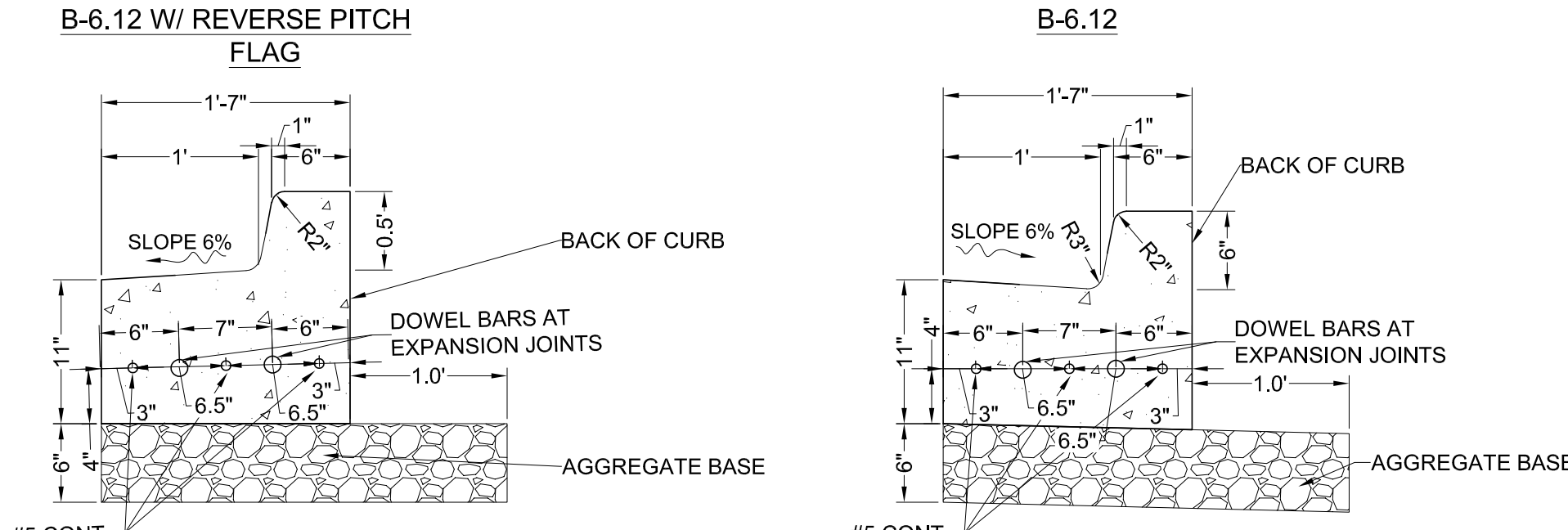


⑨ ARTIFICIAL TURF SURFACING
 SCALE: 1"=1'-0"



- NOTES:
 1. ALL CURB AND GUTTER SHALL BE CONSTRUCTED W/ IDOT CLASS SI CONCRETE.
 2. REFER TO EXPANSION JOINT DETAIL.
 3. REINFORCEMENT: PROVIDE THREE (3) #5 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS
 4. EXPANSION JOINT: 3/4\"/>

⑩ B6.12 CURB AND GUTTER
 SCALE: 1"=1'-0"



CURB AND GUTTER DETAIL (RESIDENTIAL)		
DATE	STREET & PAVEMENT	SCALE
2023-04-28	Village of ORLAND PARK	1"=1'-0"
DESIGNED BY	ENGINEERING DEPARTMENT	STR-03



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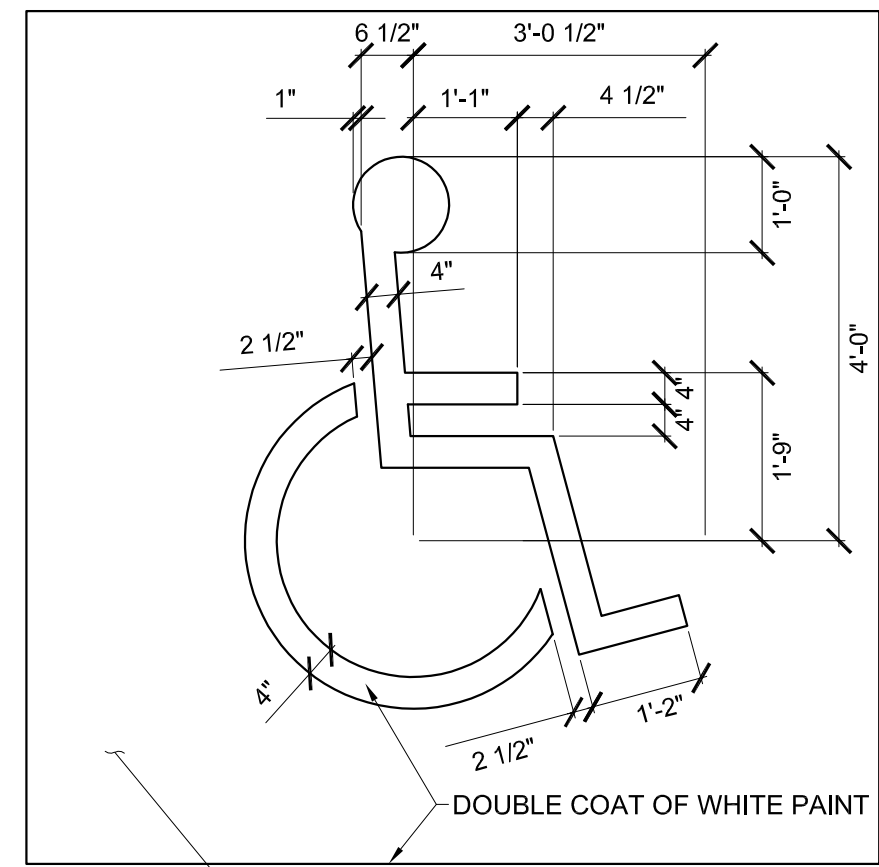
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CIVIL DETAILS

Project Number: 220069
 Scale:
 Drawn By: KB/DW
 Sheet:

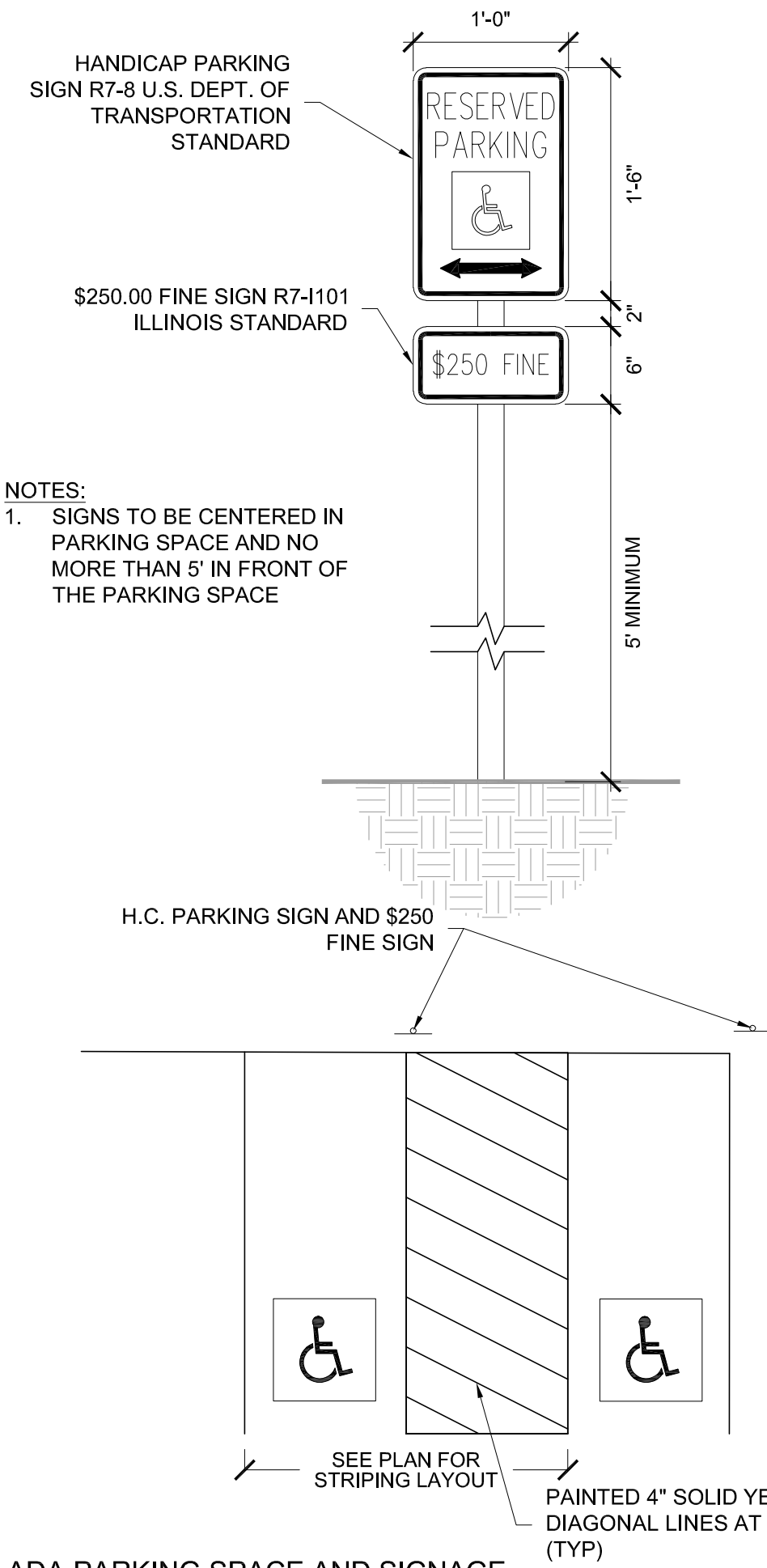
C5.00

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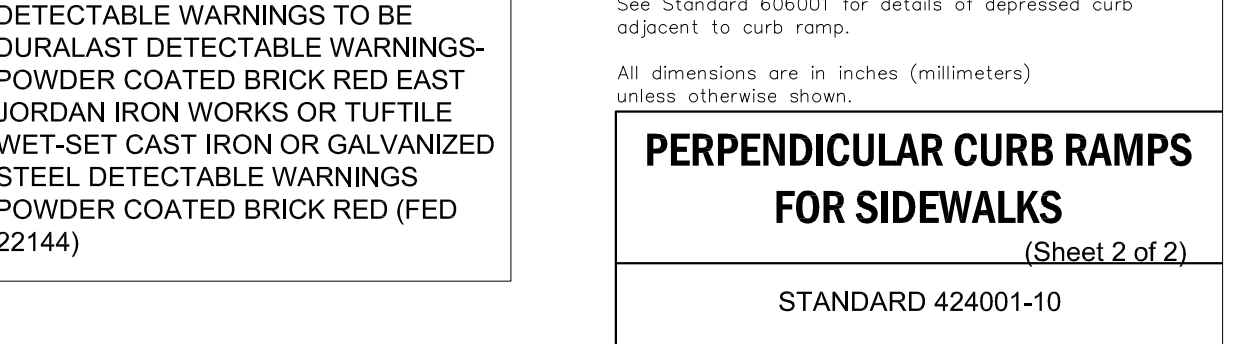
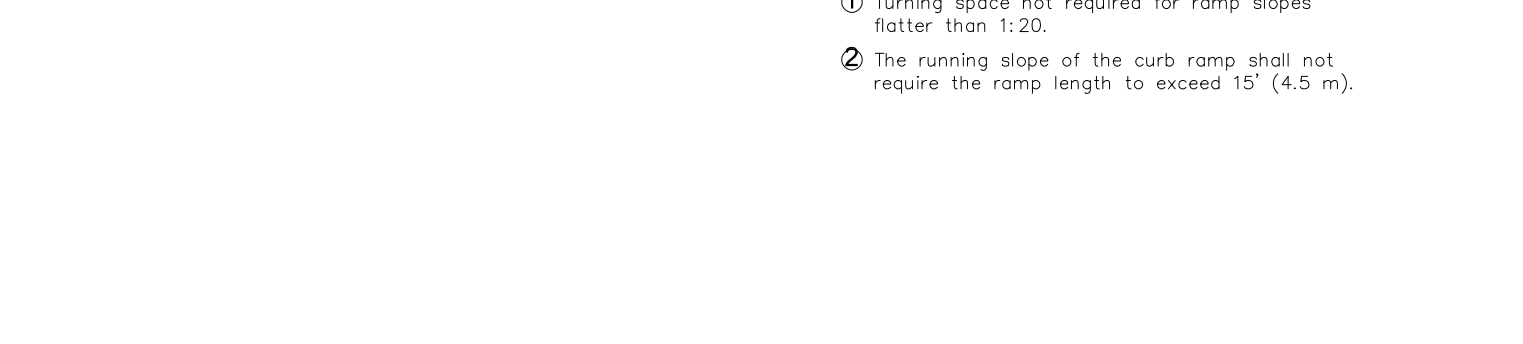
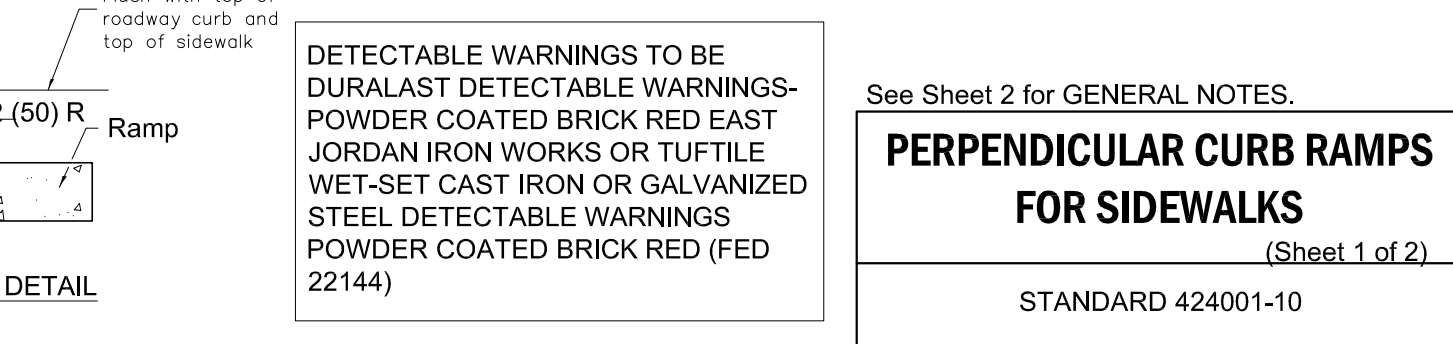
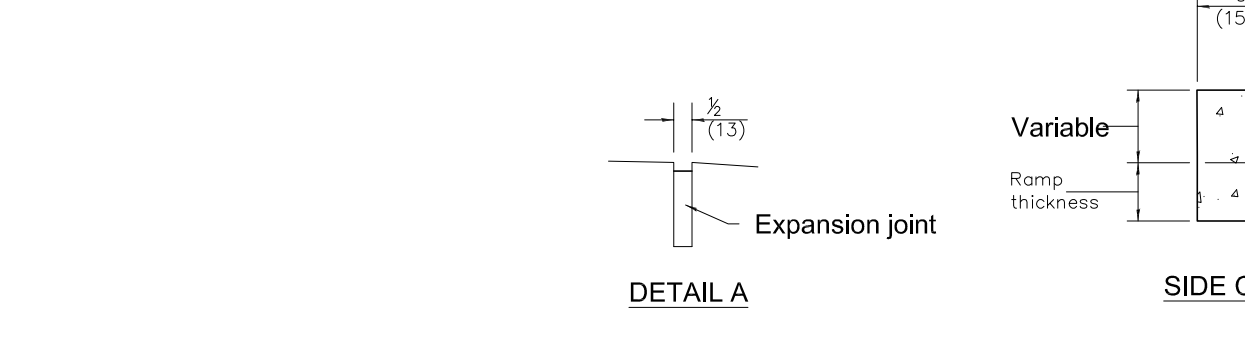
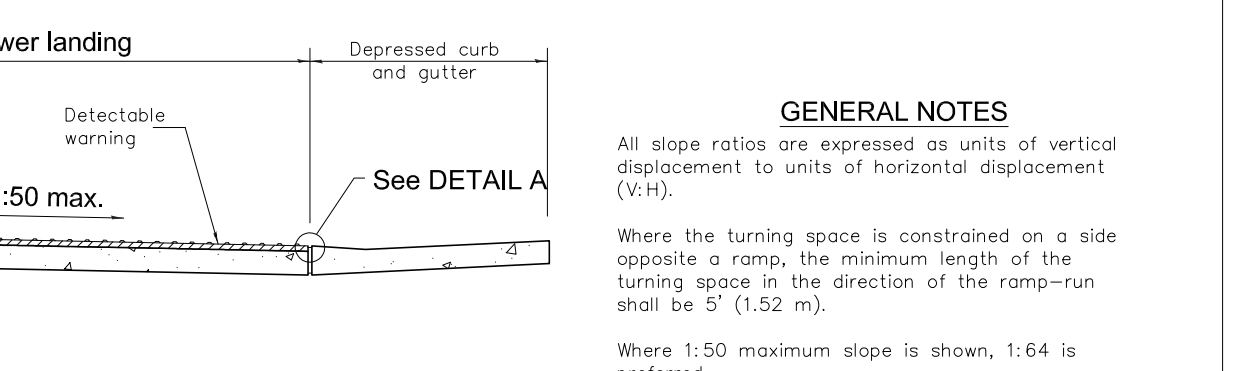
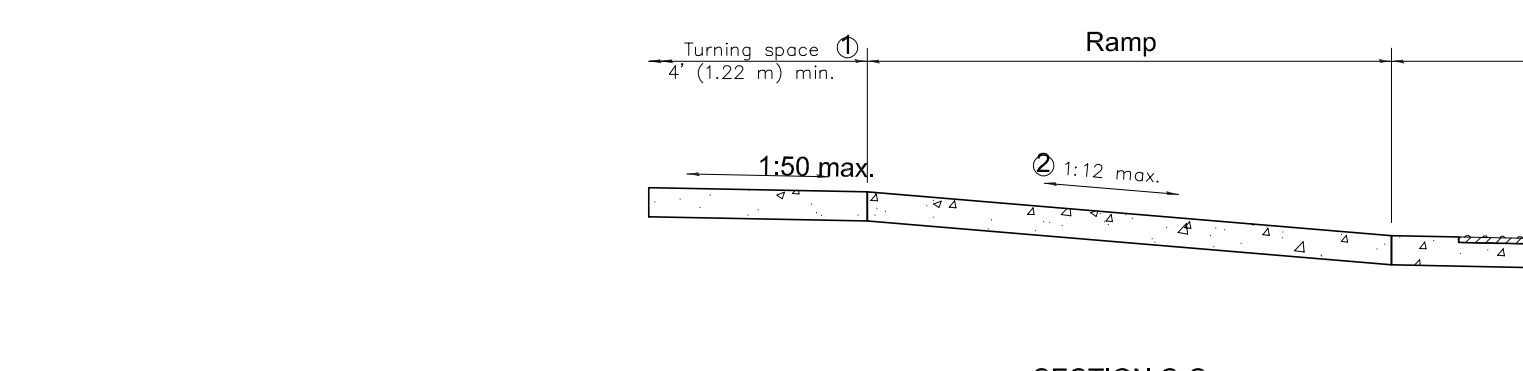
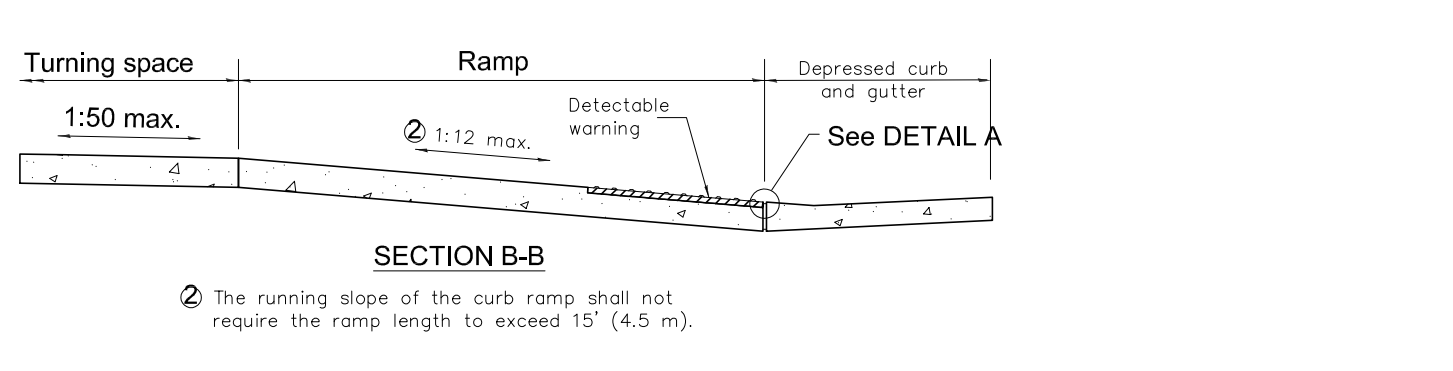
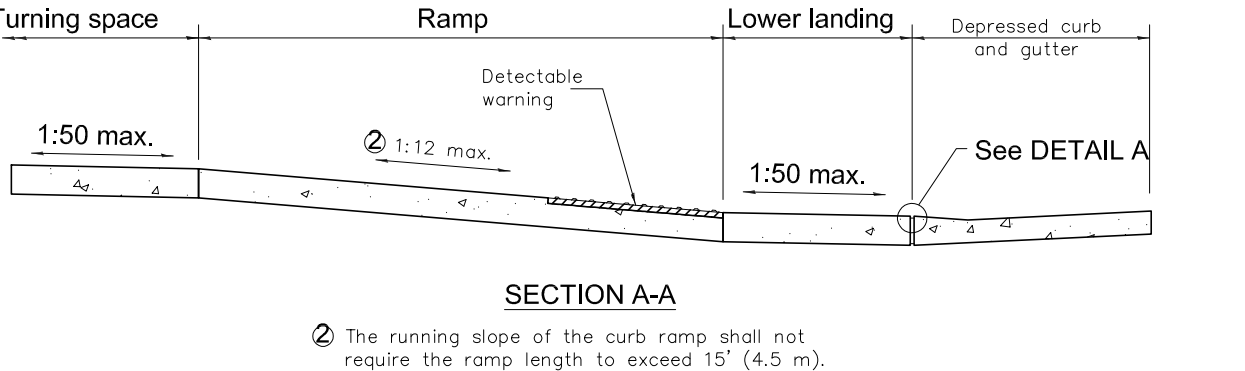
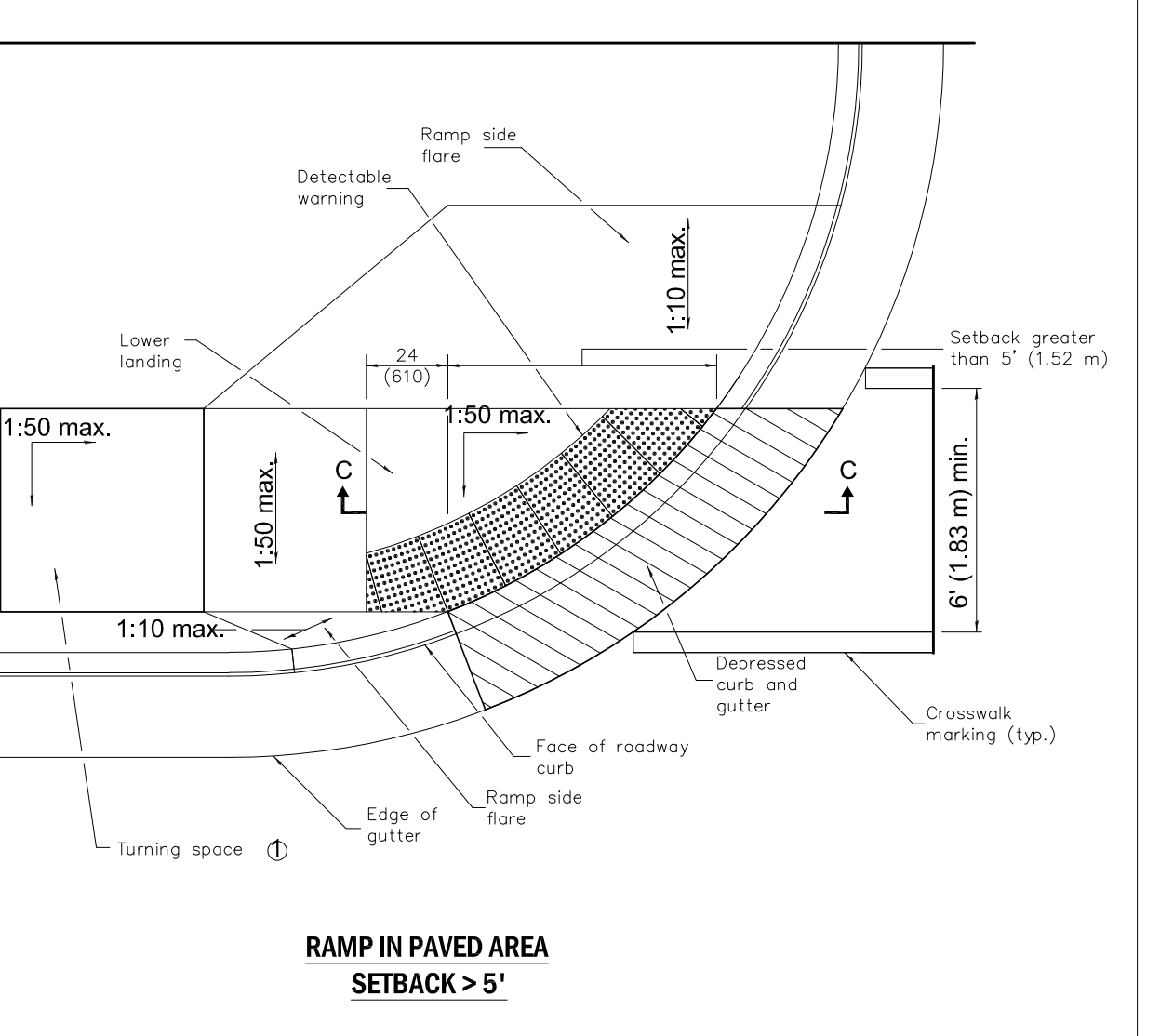
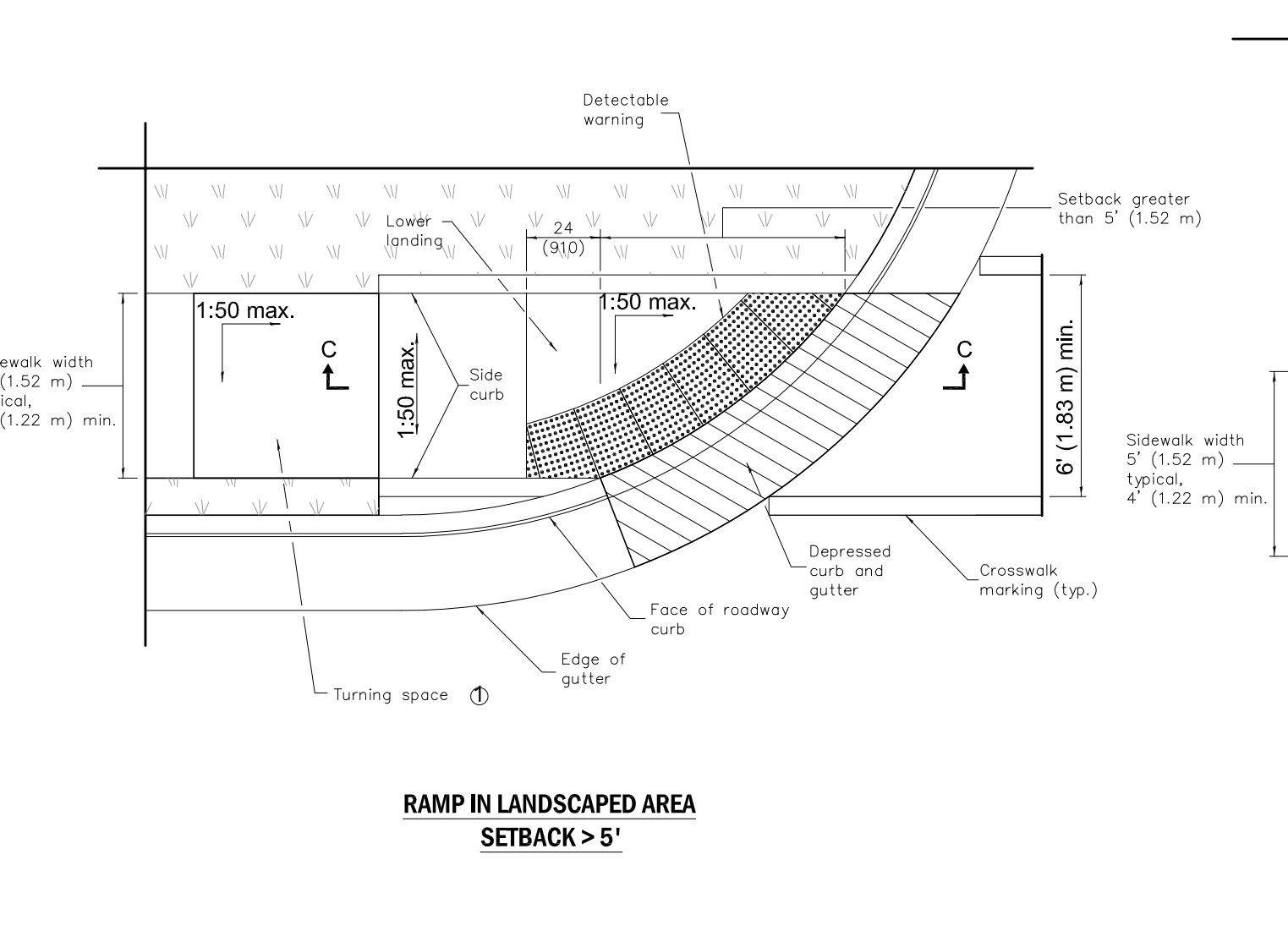
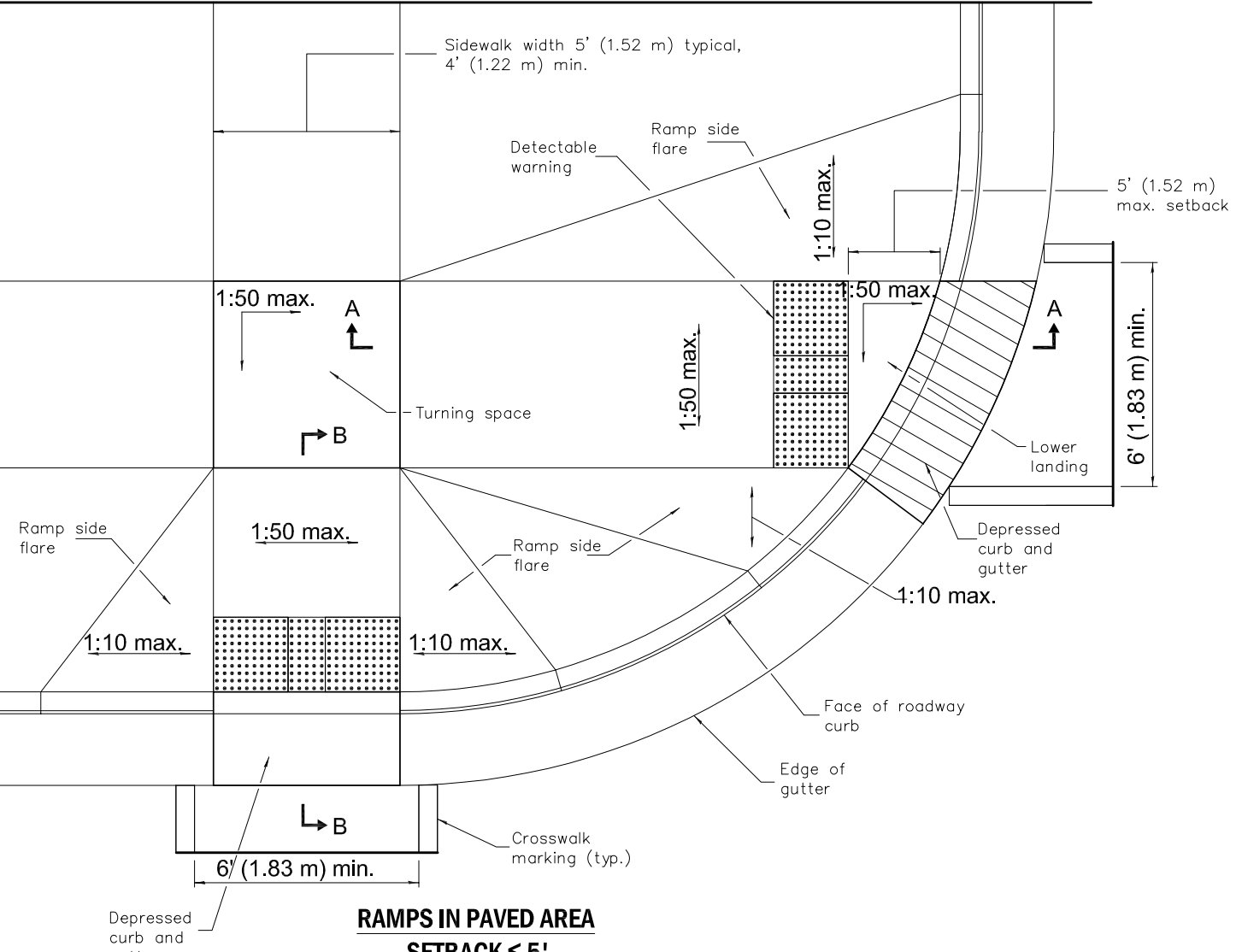
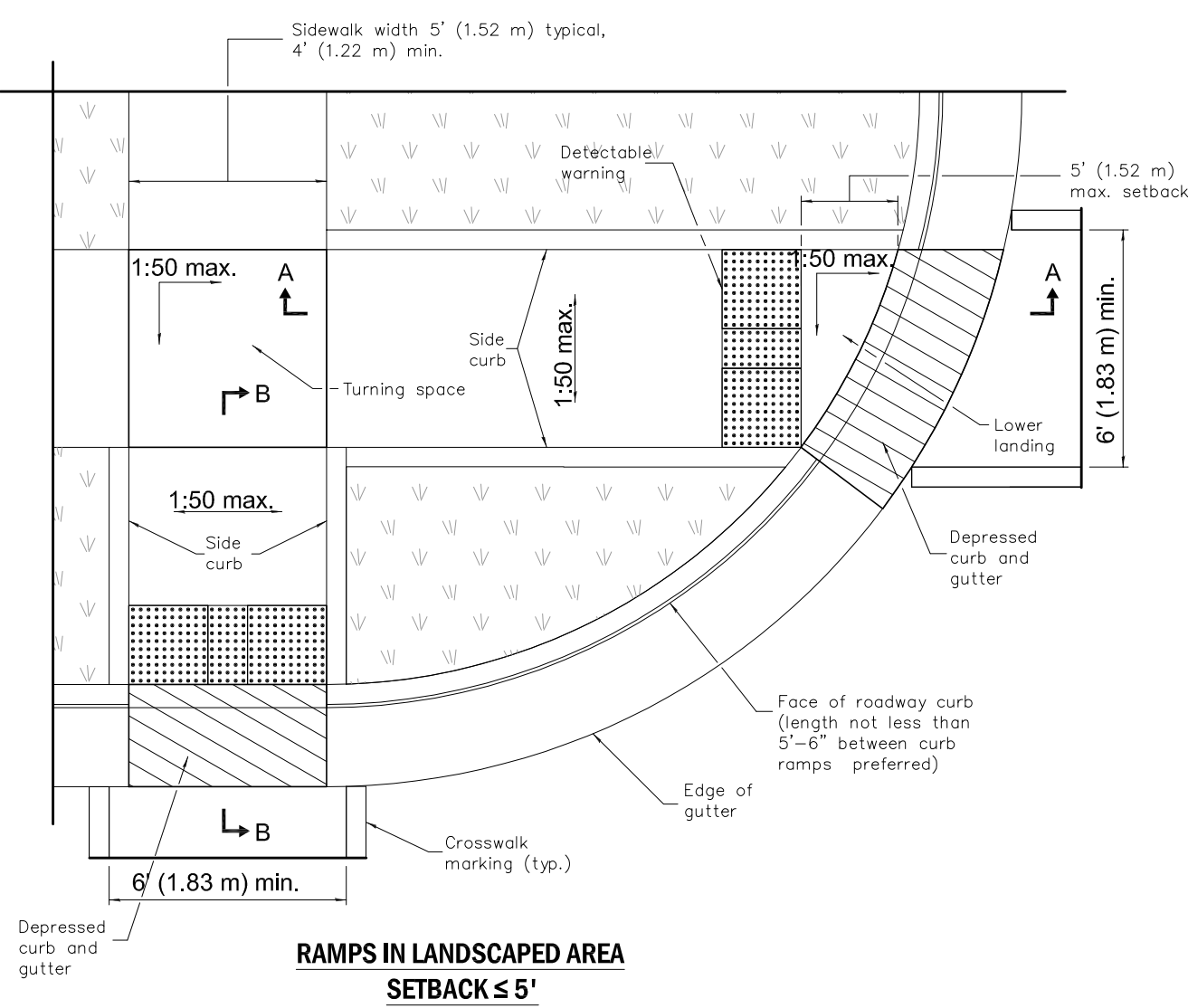
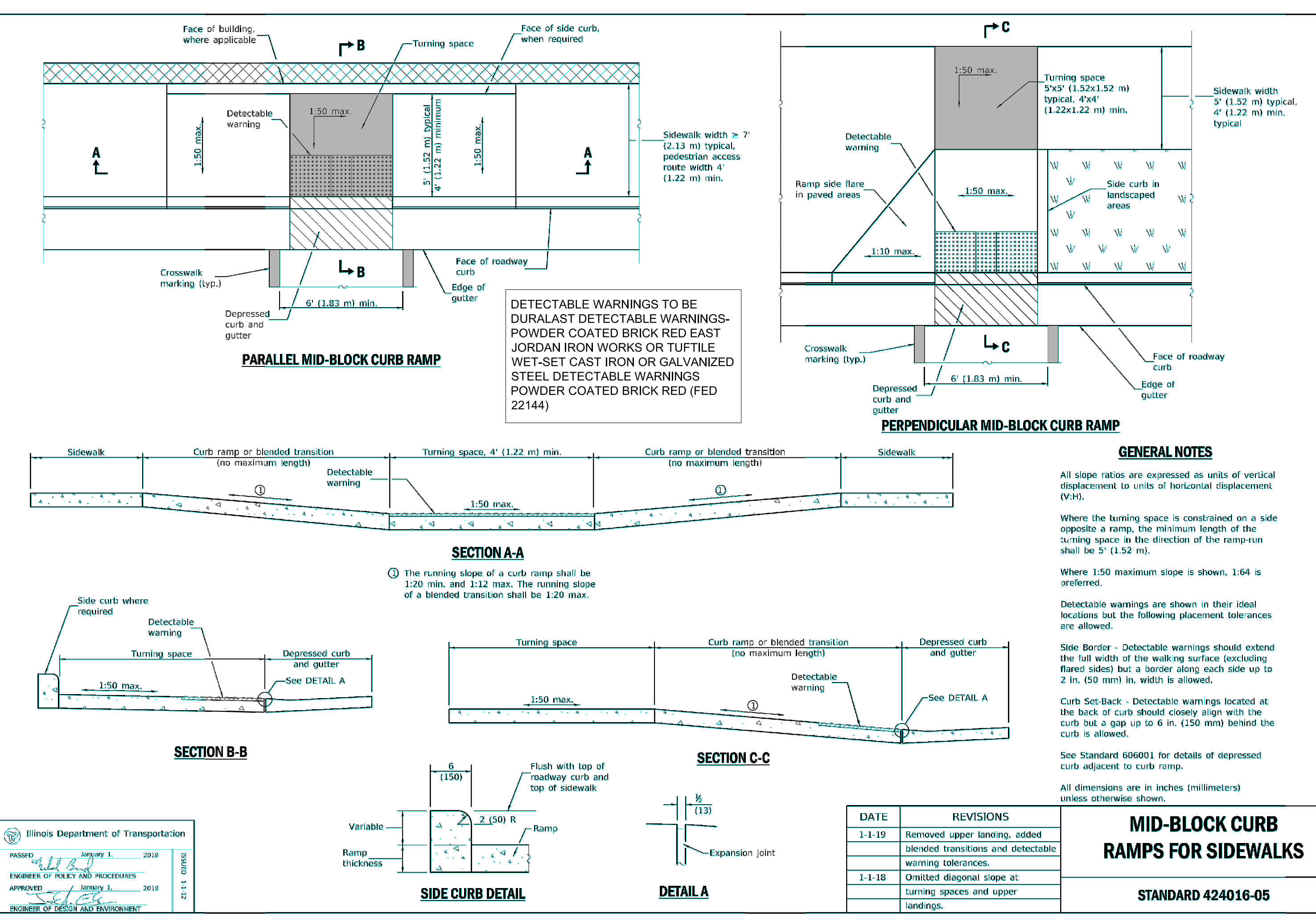
- BOX PAINTED WITH TRAFFIC BLUE PAINT
- NOTES:
 1. CENTER SYMBOL ON STALL
 2. SYMBOLS SHALL BE PAINTED WITH WHITE TRAFFIC PAINT

1 ADA PARKING SYMBOL
 SCALE: 1"=1'-0"



- NOTES:
 1. SIGNS TO BE CENTERED IN PARKING SPACE AND NO MORE THAN 5' IN FRONT OF THE PARKING SPACE

2 TYPICAL ADA PARKING SPACE AND SIGNAGE
 SCALE: 1"=1'-0"



3 IDOT PERPENDICULAR CURB RAMPS FOR SIDEWALKS



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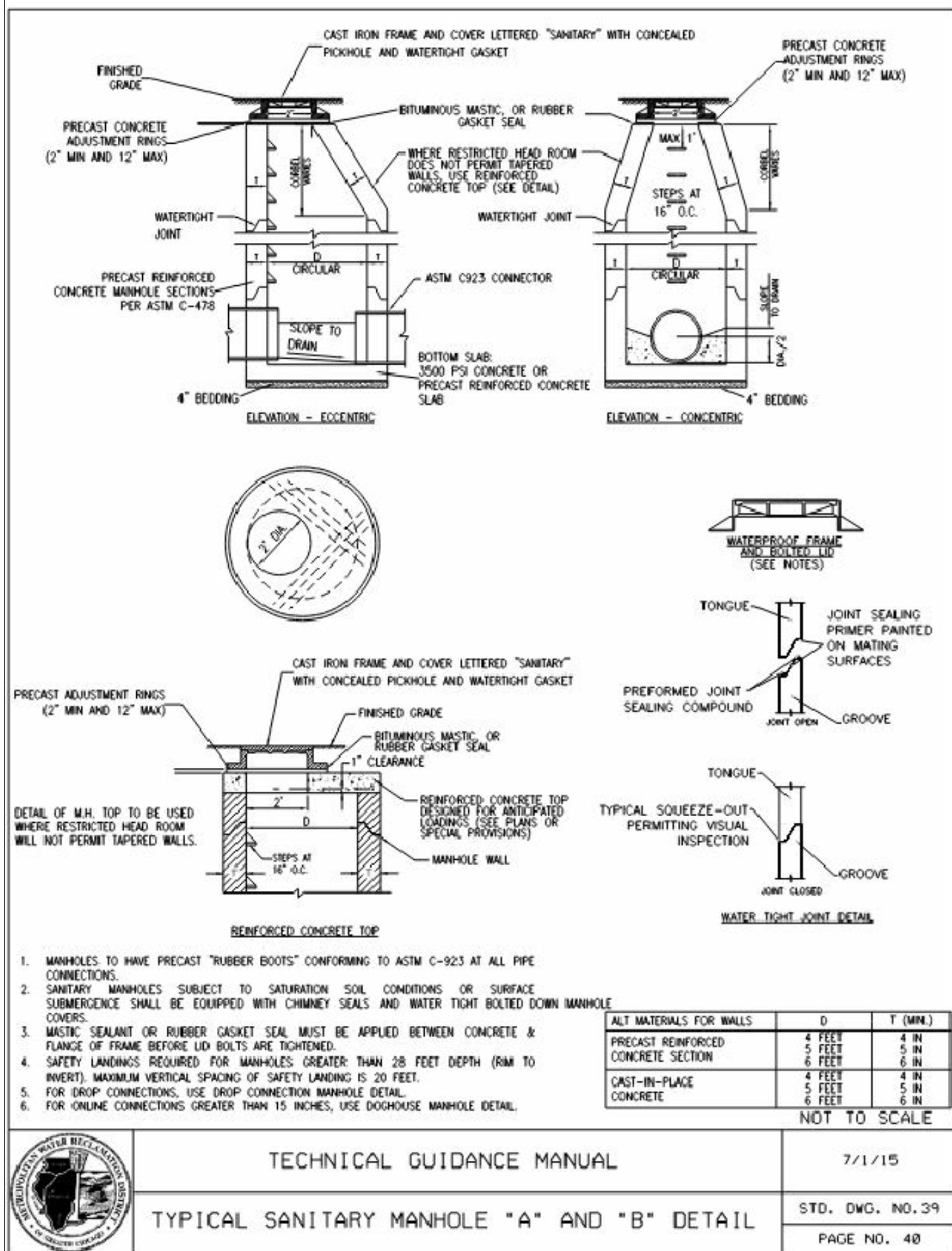
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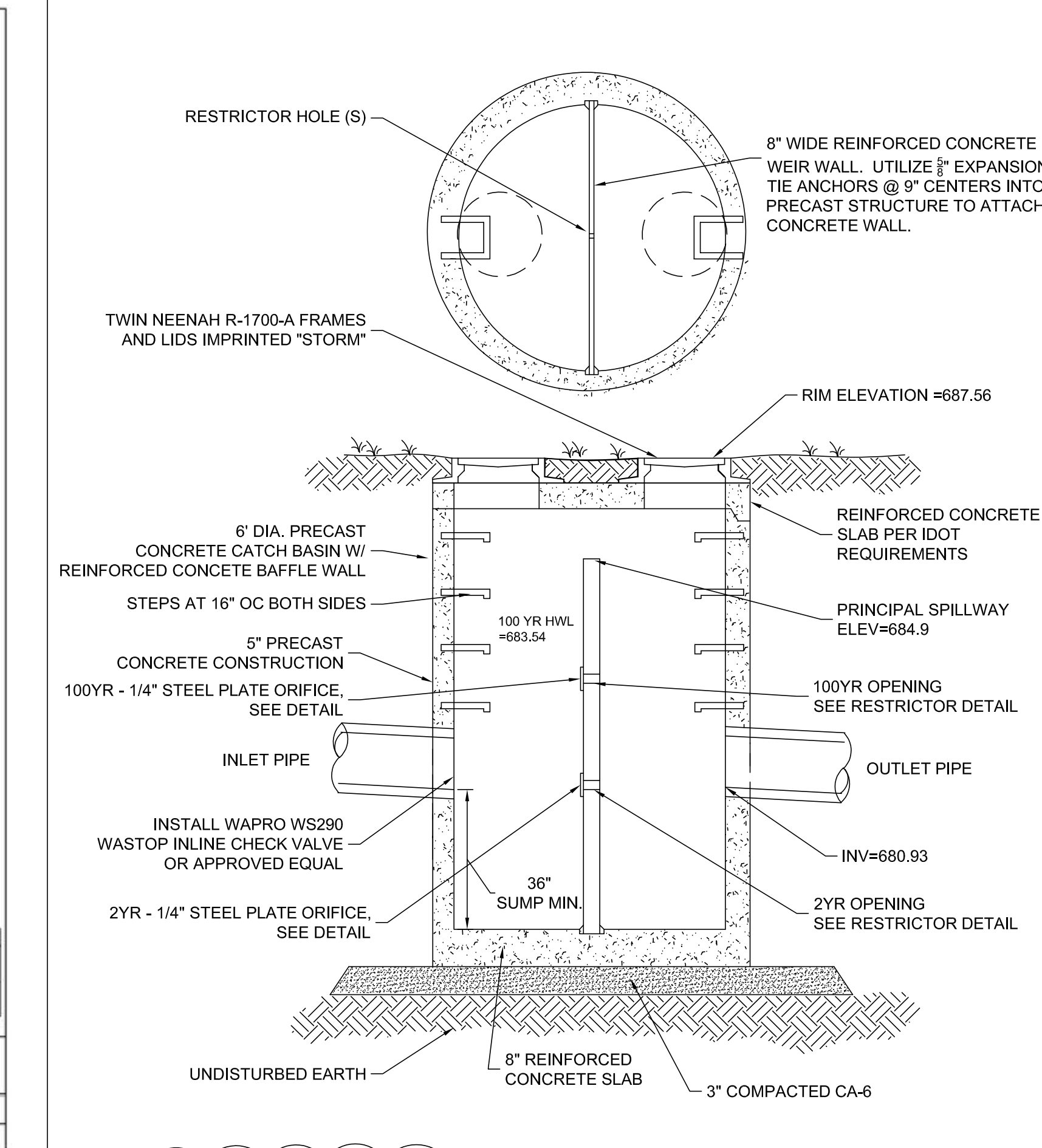
CIVIL DETAILS

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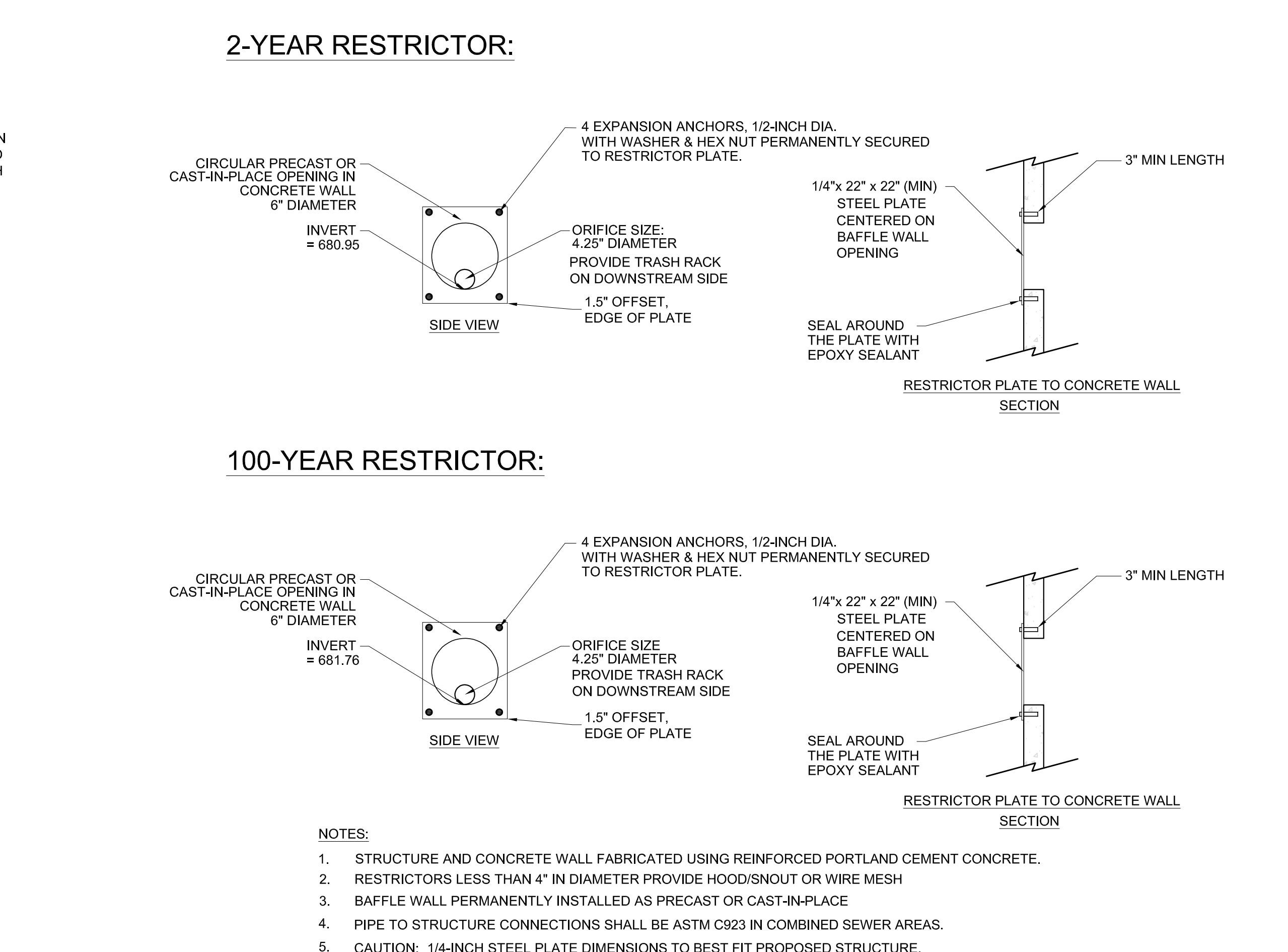
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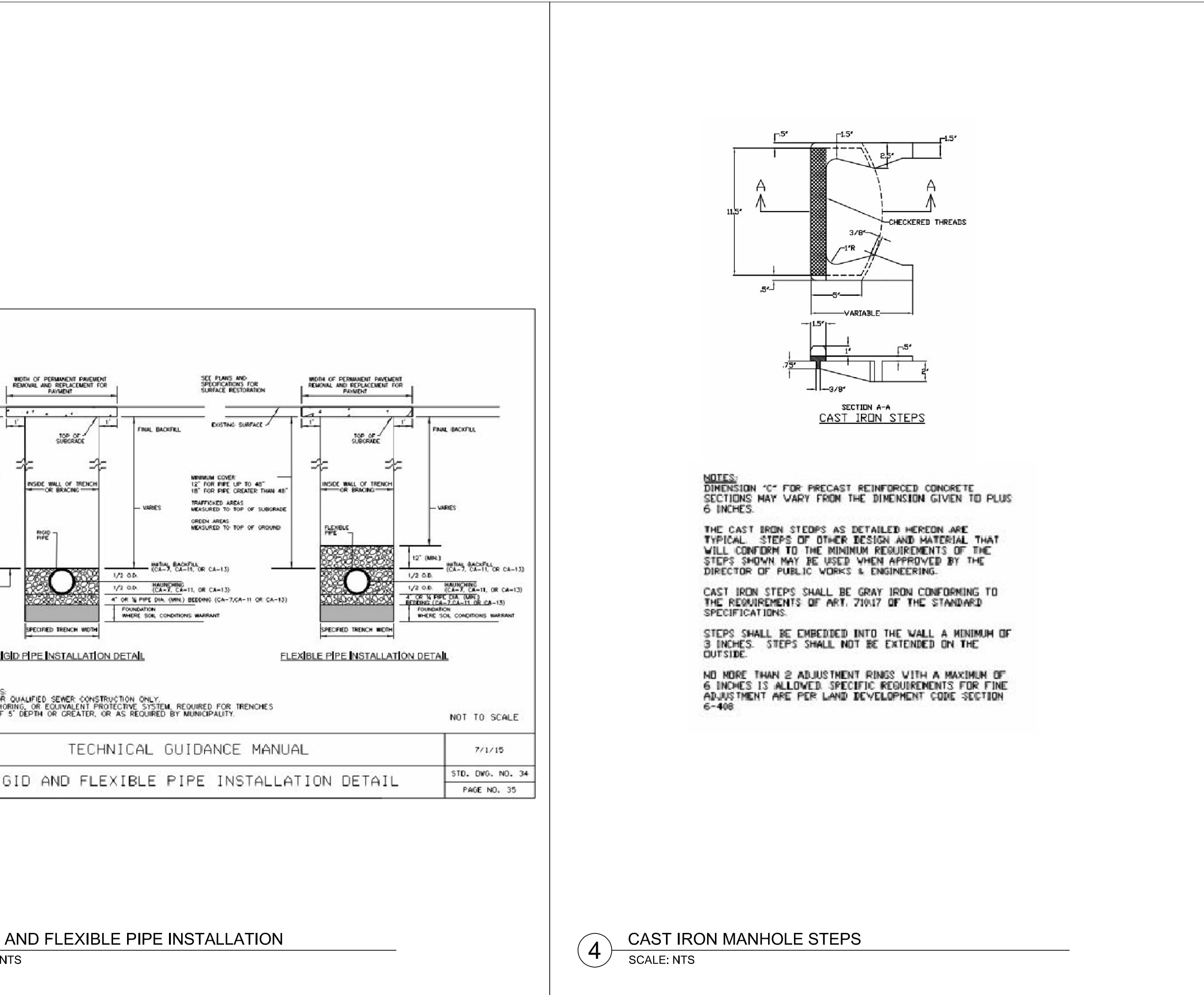
1 MWRD SANITARY SEWER MANHOLE
 SCALE: NTS



2 OUTLET CONTROL STRUCTURE
 SCALE: NTS



3 RIGID AND FLEXIBLE PIPE INSTALLATION
 SCALE: NTS



4 CAST IRON MANHOLE STEPS
 SCALE: NTS

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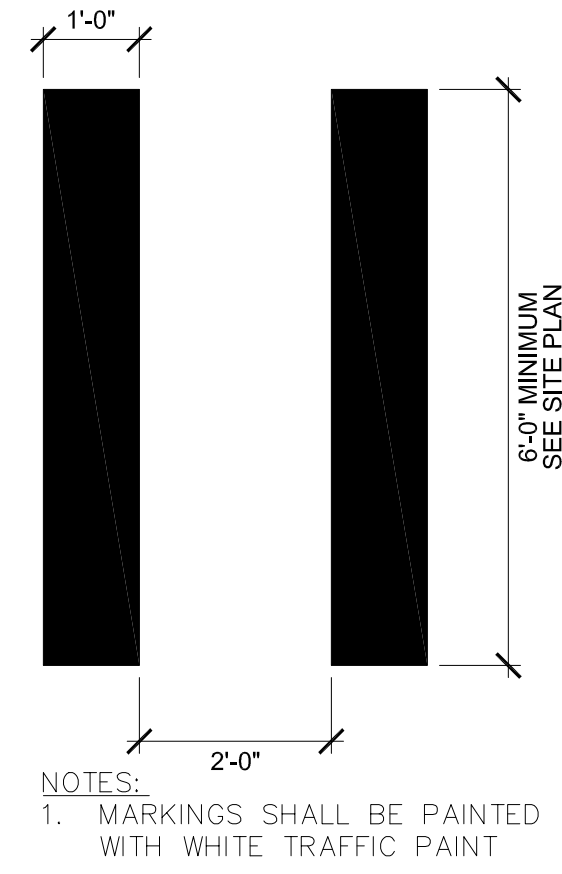
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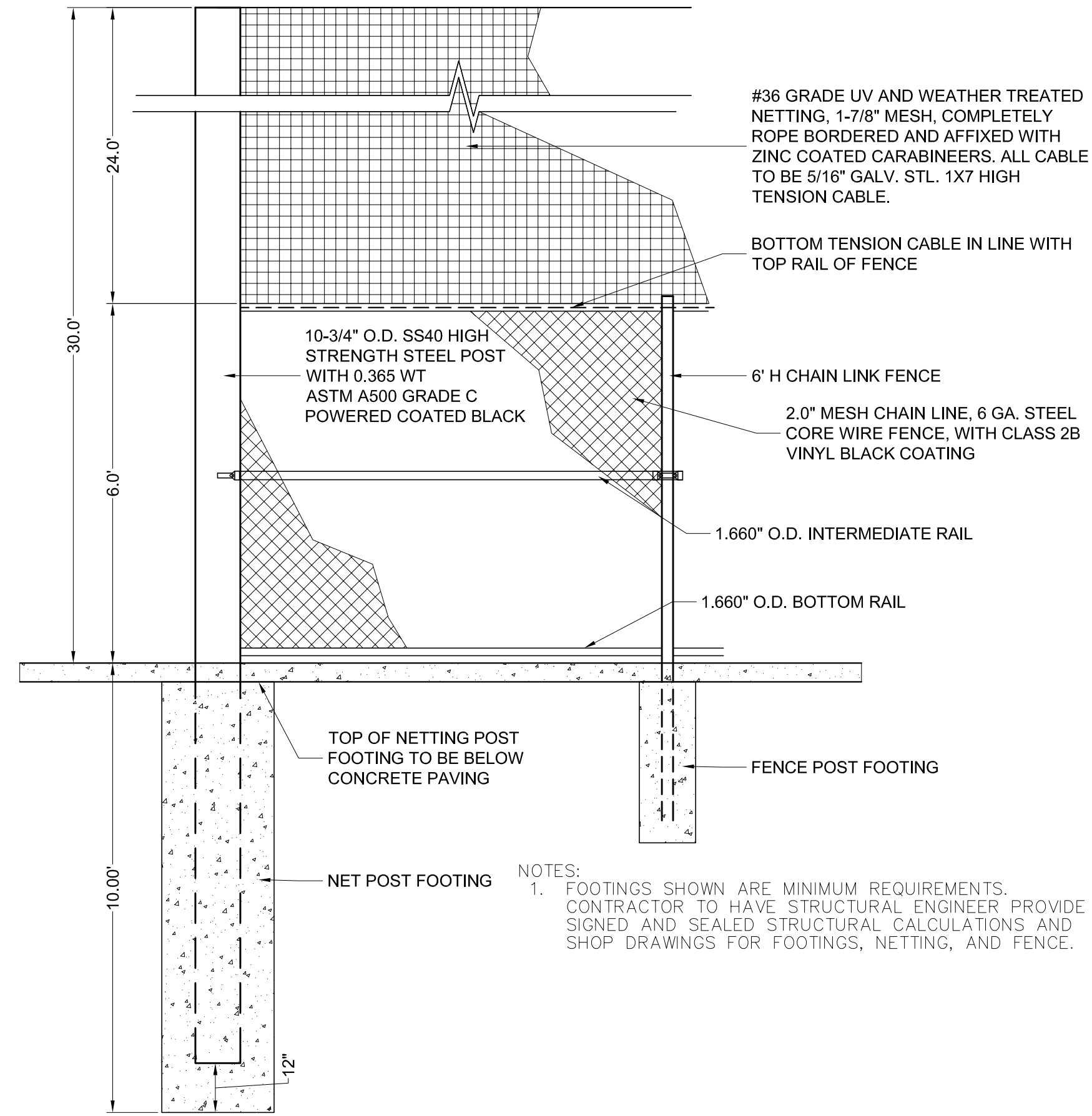
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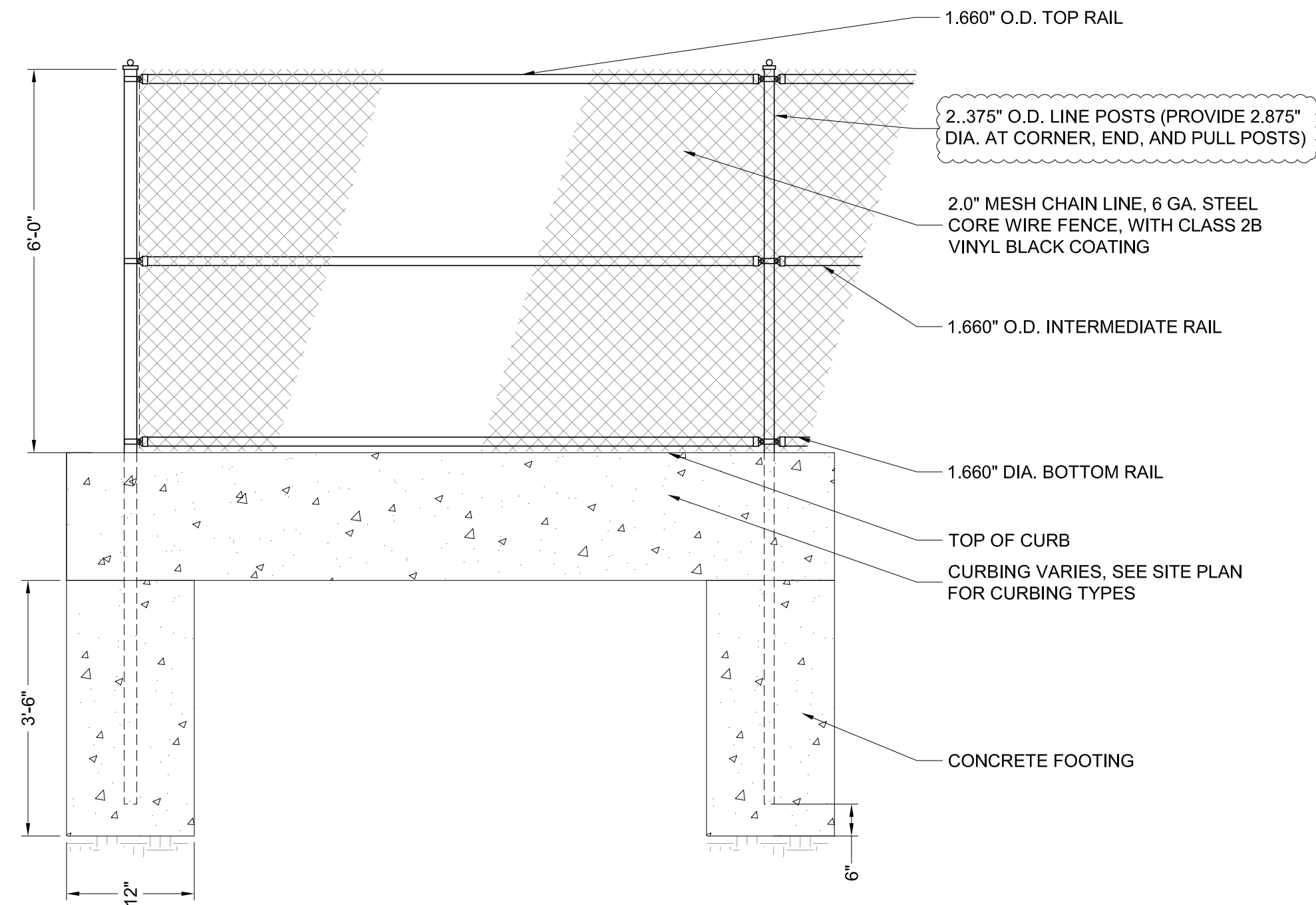
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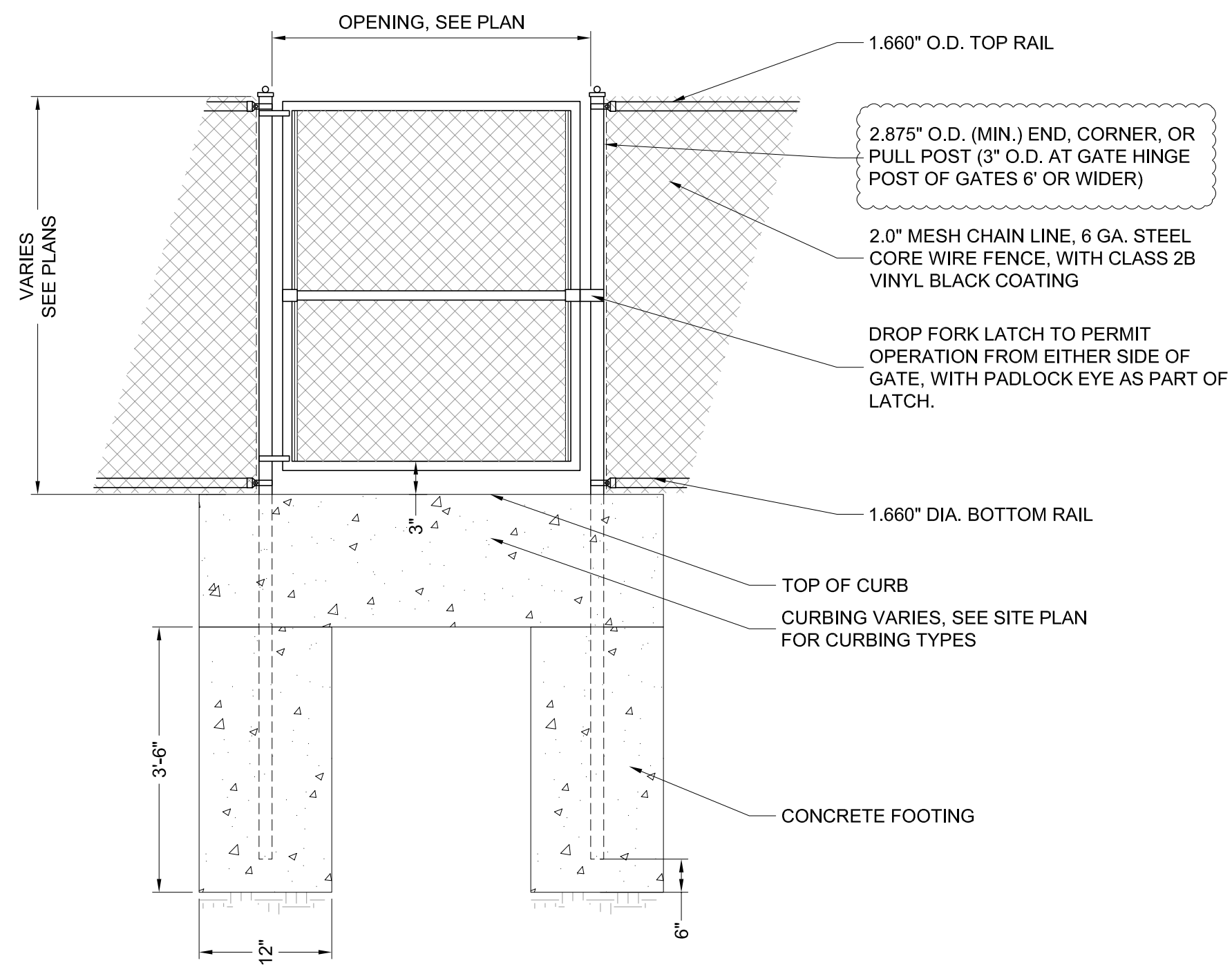
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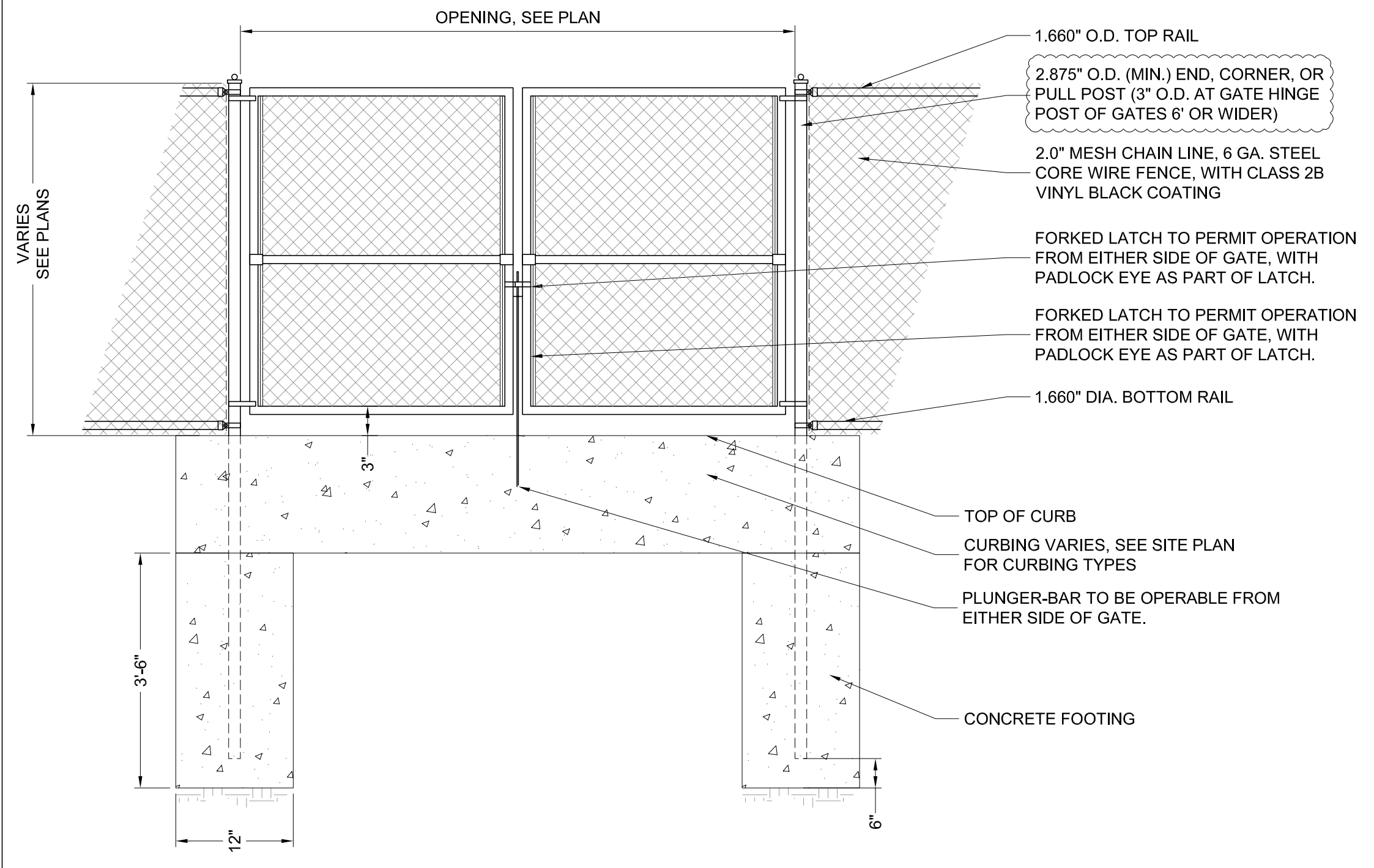
2 NETTING AND FENCE
 SCALE: NTS



3 CHAINLINK FENCE
 SCALE: NTS



4 SINGLE SWING GATE 6'H OR LESS
 SCALE: NTS



5 DOUBLE SWING GATE 6'H OR LESS
 SCALE: NTS



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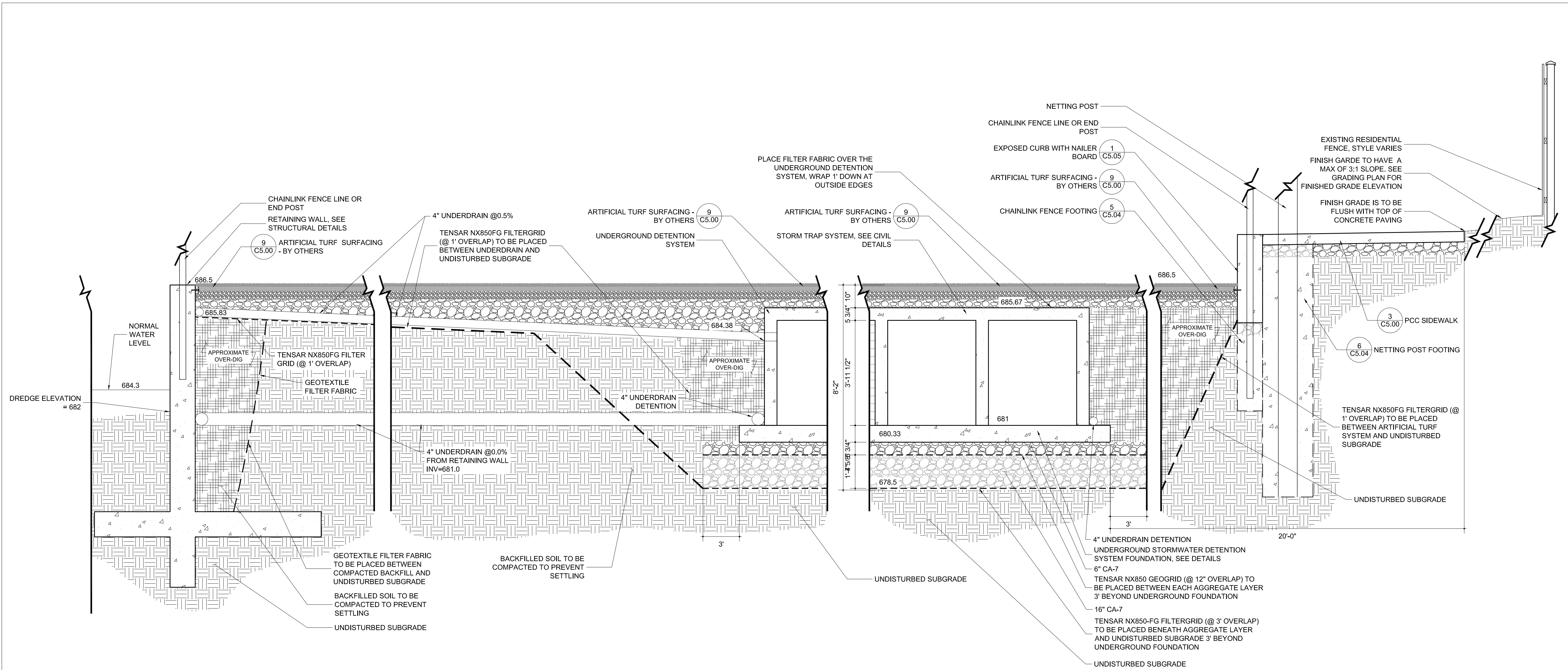
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 Sheet:

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1 NORTH TO SOUTH FIELD SECTION



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CIVIL DETAILS

Project Number: 220069
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 Sheet:

C5.06

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STRUCTURAL DESIGN LOADING CRITERIA

LIVE LOADING: AASHTO HS-20 HIGHWAY LOADING
 GROUND WATER TABLE: BELOW INVERT OF SYSTEM
 SOIL BEARING PRESSURE: 3000 PSF
 SOIL DENSITY: 120 PCF
 EQUIVALENT UNSATURATED LATERAL ACTIVE EARTH PRESSURE: 35 PSF / FT.
 EQUIVALENT SATURATED LATERAL ACTIVE EARTH PRESSURE: 80 PSF / FT. (IF WATER TABLE PRESENT)
 APPLICABLE CODES: ASTM C857 ACI-318
 BACKFILL TYPE: SEE SHEET 4.0 FOR BACKFILL OPTIONS

STORMTRAP SYSTEM INFORMATION

WATER STORAGE PROV: 283,386.05 CUBIC FEET
 UNIT HEADROOM: 4'-2" SINGLETRAP

SITE SPECIFIC DESIGN CRITERIA

- STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET / OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
- COVER RANGE: MIN. 0.83' MAX. 1.58' CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
- ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.
- FOR STRUCTURAL CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE BELOW INVERT OF SYSTEM IF WATER TABLE IS DIFFERENT THAN ASSUMED, CONTACT STORMTRAP.
- SYSTEM DESIGN MAY ALLOW FOR INCIDENTAL LEAKAGE AND WILL NOT BE SUBJECT TO LEAKAGE TESTING.

StormTrap
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 ROCKFORD, IL 60446
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ENGINEER INFORMATION:

WIGHT & COMPANY
 2500 CHEESE ROAD
 DARIEN, IL 60561
 630-969-7000

PROJECT INFORMATION:
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SCALE:
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SHEET TITLE:
 SINGLETRAP DESIGN CRITERIA

SHEET NUMBER:
 1.0

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SHEET TITLE:
 SINGLETRAP SYSTEM LAYOUT

SHEET NUMBER:
 2.0

BILL OF MATERIALS

QTY	UNIT	DESCRIPTION	WEIGHT
456	I	4'-2" SINGLETRAP	14894
10	II	4'-2" SINGLETRAP	16833
78	III	4'-2" SINGLETRAP	14358
10	IV	4'-2" SINGLETRAP	15283
0	VII	4'-2" SINGLETRAP	0
5	SHW	4'-2" SINGLETRAP	VARIES
13	T2	1/2" THICK PANEL	2943
9	T4	1/4" THICK PANEL	2319
0	T7	1/8" THICK PANEL	0
108	CON	150' PER ROLL	
128	JOINT	14.5' PER ROLL	
TOTAL PIECES = 889			
TOTAL PANELS = 22			
HEAVIEST PICK WEIGHT = 15.283			

LOADING DISCLAIMER:
 STORMTRAP IS NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADINGS FROM NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP. IF ADDITIONAL LOADING CONSIDERATIONS ARE REQUIRED FOR STRUCTURAL DESIGN OF STORMTRAP, PLEASE CONTACT STORMTRAP IMMEDIATELY.

TREE LOADING DISCLAIMER:
 THE STORMTRAP SYSTEM HAS NOT BEEN DESIGNED TO SUPPORT THE ADDITIONAL WEIGHT OF ANY TREES. FURTHERMORE, THE ROOTS OF THE TREES MUST BE CONTAINED TO PREVENT FUTURE DAMAGE TO THE STORMTRAP SYSTEM. STORMTRAP ACCEPTS NO LIABILITY FOR DAMAGES CAUSED BY TREES OR OTHER VEGETATION PLACED AROUND OR ON TOP OF THE SYSTEM.

DESIGN CRITERIA
 ALLOWABLE MAX GRADE = 687.25
 ALLOWABLE MIN GRADE = 686.50
 INSIDE HEIGHT ELEVATION = 685.17
 SYSTEM INVERT = 681.00

NOTES:
 1. DIMENSIONING OF STORMTRAP SYSTEM SHOWN BELOW ALLOW FOR A 1/4" GAP BETWEEN EACH MODULE.
 2. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
 3. SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.
 4. SP - INDICATES A MODULE WITH MODIFICATIONS.
 5. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
 6. CONTRACTORS RESPONSIBILITY TO ENSURE CONSISTENCY/ACCURACY TO FINAL ENGINEER OF RECORD PLAN SET.

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SCALE:
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SHEET TITLE:
 SINGLETRAP FOUNDATION LAYOUT

SHEET NUMBER:
 2.1

CONCRETE FOUNDATION NOTES:

- CONCRETE FOUNDATION TO BE SUPPLIED AND INSTALLED BY OTHERS.
- CONCRETE STRENGTH @ 28 DAYS, 50-85% EXTRADED AIR, 4" MAX SLUMP.
- NET ALLOWABLE SOIL PRESSURE AS INDICATED ON SHEET 1.0.
- SOIL CONDITIONS TO BE VERIFIED ON SITE BY OTHERS.
- REBAR: ASTM A615 GRAD. 60, BLACK BAR.
- DIMENSION OF FOUNDATION MUST HAVE 1'-0" OVERHANG BEYOND EXTERNAL FACE OF MODULE.
- DIMENSION OF STORMTRAP SYSTEM ALLOW FOR A 3/4" GAP BETWEEN EACH MODULE.
- ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
- SEE SHEET 3.0 FOR INSTALLATION SPECIFICATIONS.

MAXIMUM SYSTEM COVER	HS-20 & HS-25 LOADING - (ACI 318, S72)			'A' CLEAR COVER
	SLAB THICKNESS	CONCRETE STRENGTH	REINFORCEMENT (BOTH DIRECTIONS)	
1'-0"	8"	4000 PSI	#4 @ 18" O.C.	3.5"
1'-1" - 2'-0"	8"	4000 PSI	#4 @ 16" O.C.	3.5"
2'-1" - 3'-0"	8"	4000 PSI	#4 @ 12" O.C.	3.5"
3'-1" - 4'-0"	8"	4000 PSI	#4 @ 12" O.C.	3.5"
4'-1" - 5'-0"	8"	4000 PSI	#5 @ 18" O.C.	3.375"
5'-1" - 6'-0"	8"	4000 PSI	#5 @ 16" O.C.	3.375"
6'-1" - 7'-0"	8"	4000 PSI	#5 @ 12" O.C.	3.375"
7'-1" - 8'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
8'-1" - 9'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"
9'-1" - 10'-0"	9"	4000 PSI	#5 @ 12" O.C.	3.875"

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SCALE:
 HTS

SHEET TITLE:
 SINGLETRAP INSTALLATION SPECIFICATIONS

SHEET NUMBER:
 3.0

STORMTRAP INSTALLATION SPECIFICATIONS

- STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891, STANDARD FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES, THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY.
- IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO ENSURE THAT PROPER/ADEQUATE EQUIPMENT IS USED TO SET/INSTALL THE MODULES.
- STORMTRAP MODULES SHALL BE PLACED ON A LEVEL CONCRETE FOUNDATION (SEE SHEET 2.1) WITH A 1'-0" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN PLACE BY INSTALLING CONTRACTOR. A QUALIFIED GEOTECHNICAL ENGINEER WILL BE EMPLOYED BY OWNER TO PROVIDE ASSISTANCE IN EVALUATING THE EXISTING SOIL CONDITIONS TO ENSURE THAT THE SOIL BEARING PRESSURE MEETS OR EXCEEDS THE STRUCTURAL DESIGN LOADING CRITERIA AS SPECIFIED ON SHEET 1.0.
- THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 2" (SEE DETAIL 2). IF THE SPACE EXCEEDS 2", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
- THE PERIMETER HORIZONTAL JOINT BETWEEN THE STORMTRAP MODULES AND THE CONCRETE FOUNDATION SHALL BE SEALED TO THE FOUNDATION WITH PRE-FORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891, 8.8 AND 8.12 (SEE DETAIL 1). THE MASTIC JOINT TAPE DOES NOT PROVIDE A WATERTIGHT SEAL.
- EXTERIOR VERTICAL WALL JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 6" WIDE PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN, BONDED TO A WOVEN, HIGHLY PUNCTURE RESISTANT POLYMER WRAP, CONFORMING TO ASTM C891 AND SHALL BE INTEGRATED WITH PRIMER SEALANT AS APPROVED BY STORMTRAP (SEE DETAILS 2, 3, & 4). THE JOINT WRAP DOES NOT PROVIDE A WATERTIGHT SEAL. THE SOLE PURPOSE OF THE JOINT WRAP IS TO PROVIDE A SLIT AND SOIL TIGHT SYSTEM. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
 - USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE JOINT WRAP IS TO BE APPLIED.
 - A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (ADHESIVE SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
 - IF THE CONTRACTOR NEEDS TO CANCEL ANY SHIPMENTS, THEY MUST DO SO 48 HOURS PRIOR TO THEIR SCHEDULED ARRIVAL AT THE JOB SITE. IF CANCELED AFTER THAT TIME, PLEASE CONTACT THE PROJECT MANAGER.
 - IF THE STORMTRAP MODULE(S) IS DAMAGED IN ANY WAY PRIOR, DURING, OR AFTER INSTALL, STORMTRAP MUST BE CONTACTED IMMEDIATELY TO ASSESS THE DAMAGE AND DETERMINE WHETHER OR NOT THE MODULE(S) WILL NEED TO BE REPLACED. IF ANY MODULE ARRIVES AT THE JOB SITE DAMAGED DO NOT UNLOAD IT; CONTACT STORMTRAP IMMEDIATELY. ANY DAMAGE NOT REPORTED BEFORE THE TRUCK IS UNLOADED WILL BE THE CONTRACTOR'S RESPONSIBILITY.
 - STORMTRAP MODULES CANNOT BE ALTERED IN ANY WAY AFTER MANUFACTURING WITHOUT WRITTEN CONSENT FROM STORMTRAP.

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	MWRD SUBMITTAL	12-22-2022
	ISSUED FOR PLANNING	11-18-2022

SCHUSSLER PARK

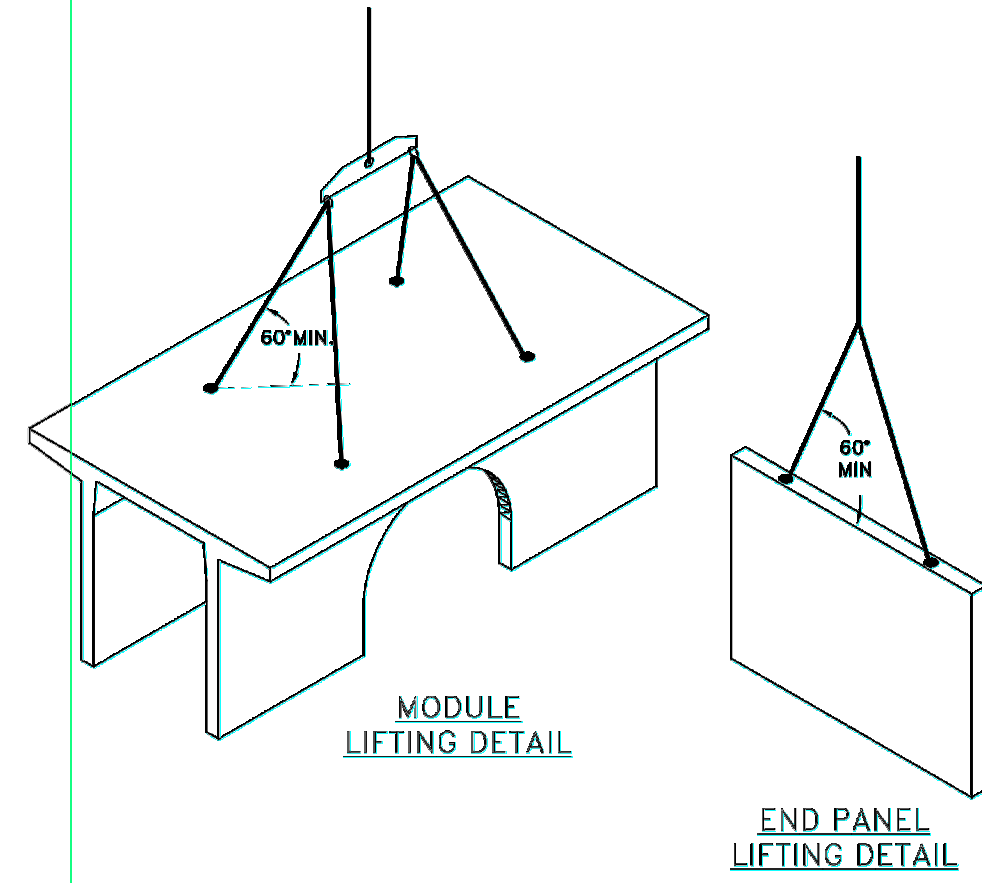
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CIVIL DETAILS

Project Number: 220069 Scale: as noted
 Drawn By: KB/DW
 Sheet: **C5.07**

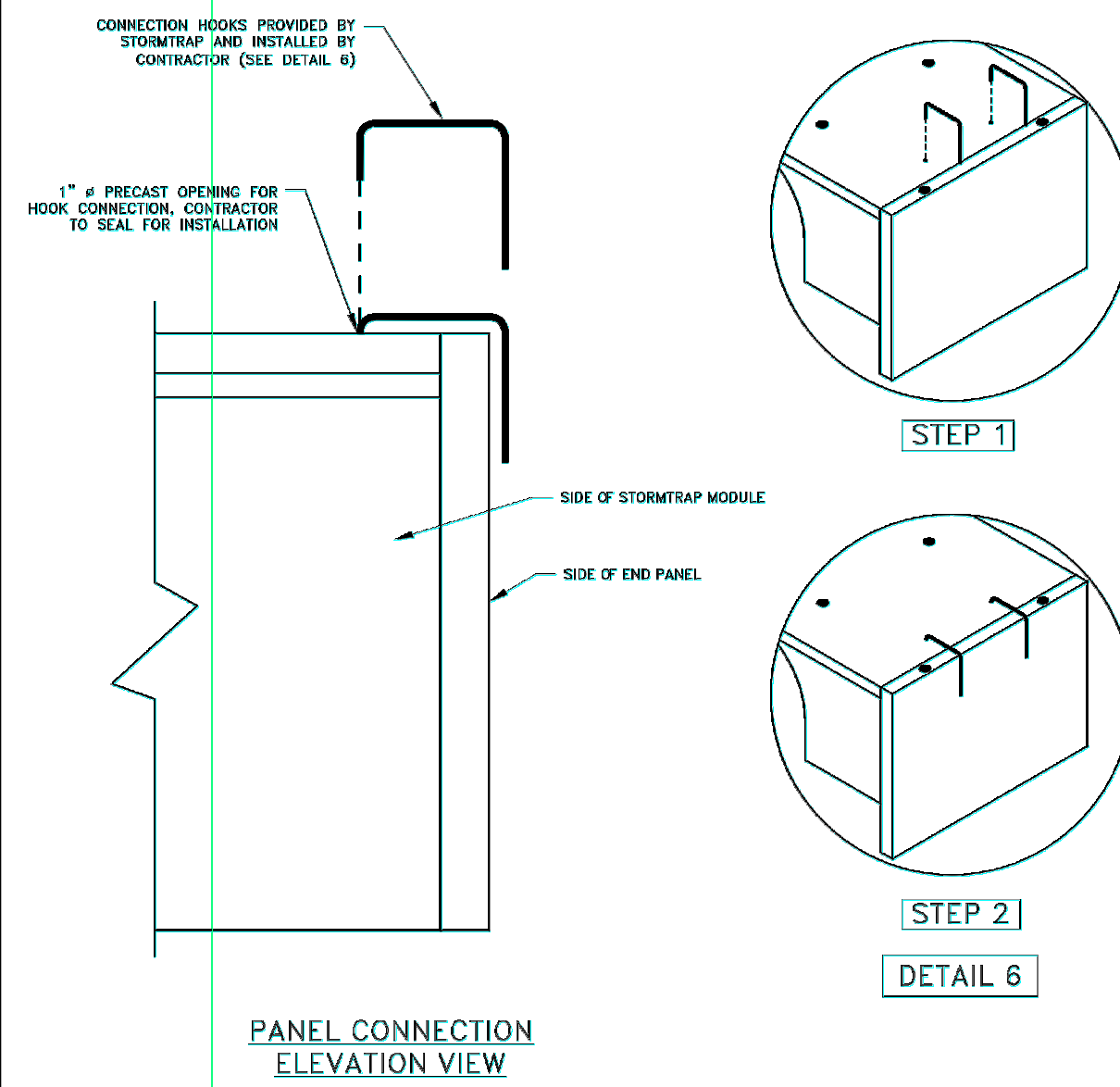
STORMTRAP MODULE LIFTING INSTALLATION NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (A) CHAINS/CABLES ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL TENSION WHEN LIFTING THE STORMTRAP MODULE (SEE RECOMMENDATIONS 2 & 3).
- MINIMUM 7'-0" CHAIN/CABLE LENGTH TO BE USED TO LIFT STORMTRAP MODULES (SUPPLIED BY CONTRACTOR).
- CONTRACTOR TO ENSURE MINIMUM LIFTING ANGLE IS 60° FROM TOP SURFACE OF STORMTRAP MODULE. SEE DETAIL.
- IT IS UNDERSTOOD AND AGREED THAT AT ALL TIMES DURING WHICH HOISTING AND RIGGING EQUIPMENT IS BEING SUPPLIED TO THE PURCHASER, OPERATOR OF SUCH EQUIPMENT SHALL BE IN CHARGE OF HIS ENTIRE EQUIPMENT AND SHALL AT ALL TIMES BE THE JUDGE OF THE SAFETY AND PROPERITY OF ANY SUGGESTION TO HIM FROM THE SELLER, ITS AGENTS OR EMPLOYEES. PURCHASER AGREES TO SAVE, INDEMNIFY AND HOLD HARMLESS SELLER FROM ALL LOSS, CLAIMS, DAMAGES OR CAUSES OF ACTION, WHICH MAY ARISE FROM THE EXISTENCE OR OPERATION OF SAID EQUIPMENT.



END PANEL ERECTION/INSTALLATION NOTES

- END PANELS WILL BE SUPPLIED TO CLOSE OFF OPEN ENDS OF ROWS.
- PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN END OF MODULE (REFER TO SHEET 2.0 FOR END PANEL LOCATIONS).
- CONNECTION HOOKS WILL BE SUPPLIED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT STORMTRAP MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
- ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
- JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE SHEET 3.0).



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4	4/26/2023	PRELIMINARY	JPH	

SCALE:
 NTS

SHEET TITLE:
 SINGLETRAP
 INSTALLATION
 SPECIFICATIONS

SHEET NUMBER:
3.1

ZONE CHART

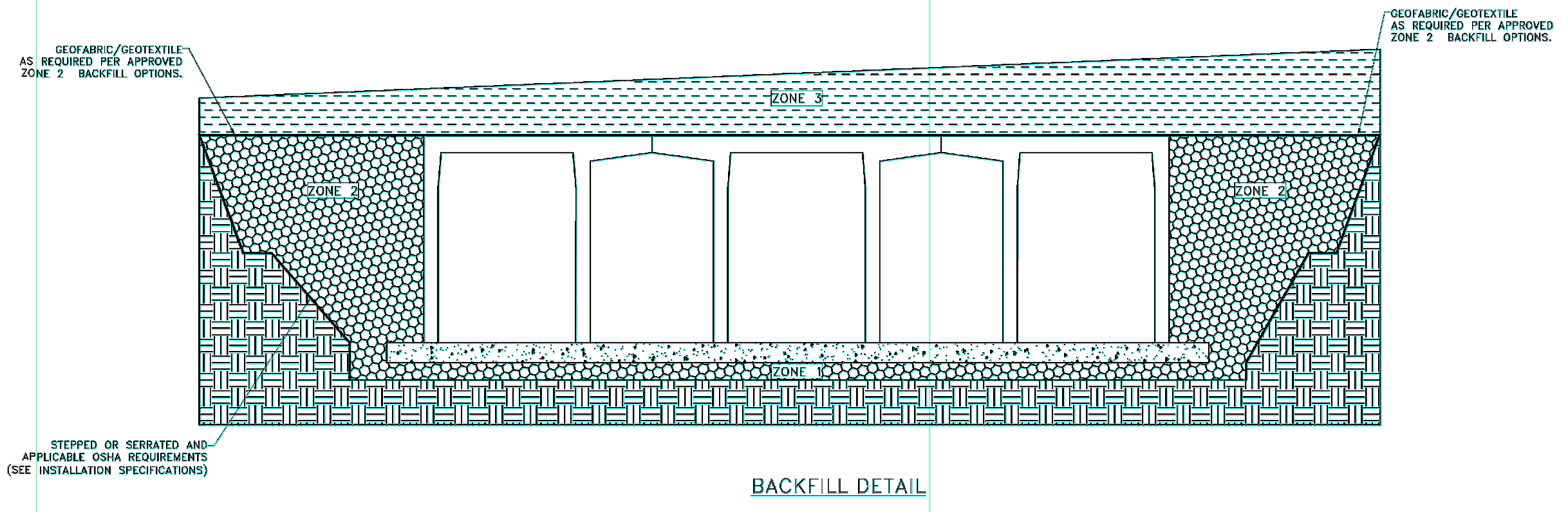
ZONES	ZONE DESCRIPTIONS	REMARKS
ZONE 1	FOUNDATION AGGREGATE	85 (P) STONE AGGREGATE (SEE NOTE 4 FOR DESCRIPTION)
ZONE 2	BACKFILL	100T CA-7
ZONE 3	FINAL COVER OVERTOP	MATERIALS NOT TO EXCEED 120 PSF

FILL DEPTH	TRACK WIDTH	MAX VEHICLE WEIGHT (KIPS)	MAX GROUND PRESSURE
12"	12"	51.8	1880 psf
18"	18"	56.1	1219 psf
24"	24"	65.1	1111 psf
30"	30"	76.7	1040 psf
36"	36"	85.0	924 psf

NOTE:
 TRACK LENGTH NOT TO EXCEED 15'-4".
 ONLY TWO TRACKS PER VEHICLE.

STORMTRAP ZONE INSTALLATION SPECIFICATIONS/PROCEDURES

- THE FILL PLACED AROUND THE STORMTRAP MODULES MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL EITHER BE COMPACTED AND/OR VIBRATED TO DENSIFY THAT BACKFILL. AGGREGATE/STONE MATERIAL IS WELL SEATED AND PROPERLY INTER LOCKED. CARE SHALL BE TAKEN TO PREVENT ANY WEEDING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES WITHIN THE AREA TO BE BACKFILLED MUST BE STEPPED OR SERRATED TO PREVENT WEEDING ACTION. CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MUST BE FREE-SHRINKING MATERIAL. SEE ZONE 2 BACKFILL CHART ON THIS PAGE FOR APPROVED BACKFILL OPTIONS. IF NATIVE LARCH IS SUSCEPTIBLE TO MIGRATION, CONFIRM WITH GEOTECHNICAL ENGINEER AND PROVIDE PROTECTION AS REQUIRED (PROVIDED BY OTHERS).
- DURING PLACEMENT OF MATERIAL OVERTOP THE SYSTEM, AT NO TIME SHALL MACHINERY BE USED OVERTOP THAT EXCEEDS THE DESIGN LIMITATIONS OF THE SYSTEM. WHEN PLACEMENT OF MATERIAL OVERTOP MATERIAL SHALL BE PLACED SUCH THAT THE DIRECTION OF PLACEMENT IS PARALLEL WITH THE OVERALL LONGITUDINAL DIRECTION OF THE SYSTEM WHENEVER POSSIBLE.
- THE FILL PLACED OVERTOP THE SYSTEM SHALL BE PLACED AT A MINIMUM OF 6" LIFTS. AT NO TIME SHALL MACHINERY OR VEHICLES GREATER THAN THE DESIGN HS-20 LOADING CRITERIA TRAVEL OVERTOP THE SYSTEM WITHOUT THE MINIMUM DESIGN COVERAGE. IF TRAVEL IS NECESSARY OVERTOP THE SYSTEM PRIOR TO ACHIEVING THE MINIMUM DESIGN COVER, IT MAY BE NECESSARY TO REDUCE THE ULTIMATE LOAD/BISEK OF THE OPERATING MACHINERY SO AS TO NOT EXCEED THE DESIGN CAPACITY OF THE SYSTEM. IN SOME CASES, IN ORDER TO ACHIEVE REQUIRED COMPACTION, HAND COMPACTION MAY BE NECESSARY. IN ORDER NOT TO EXCEED THE ALLOWED DESIGN LOADING, SEE CHART FOR TRACKED VEHICLE WIDTH AND ALLOWABLE MAXIMUM PRESSURE PER TRACK.
- STONE AGGREGATE FOUNDATION IN ZONE 1 MAY BE REQUIRED FOR THE FOLLOWING:
 A.) INELTIBRATION - 100T CA-7 IS REQUIRED



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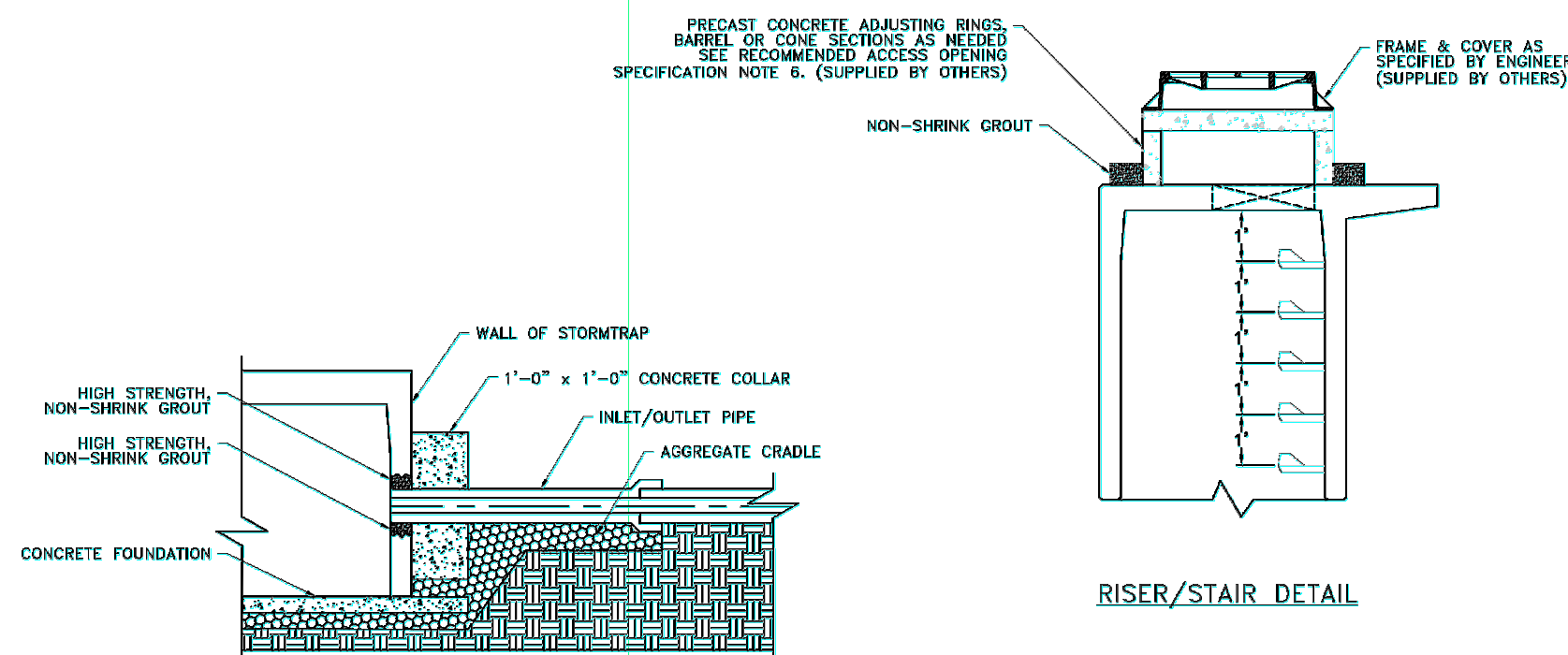
SHEET TITLE:
 SINGLETRAP
 BACKFILL
 SPECIFICATIONS

SHEET NUMBER:
4.0

S:\Darien\Orland Park, Village of\220069_Schussler Park\01\11 Drawings\02 CD\220069 C5.00 CIVIL DETAILS.dwg kbuck Apr 28, 2023 11:42:51 am
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RECOMMENDED ACCESS OPENING SPECIFICATION

- A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 3'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEO UNLESS OTHERWISE SPECIFIED.
- PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #PSS-PFC OR APPROVED EQUAL (SEE STEP DETAIL) ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL EXISTING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" MIN AND 14" MAX BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
- STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
- STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
- ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
- USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS (PROVIDED BY OTHERS)



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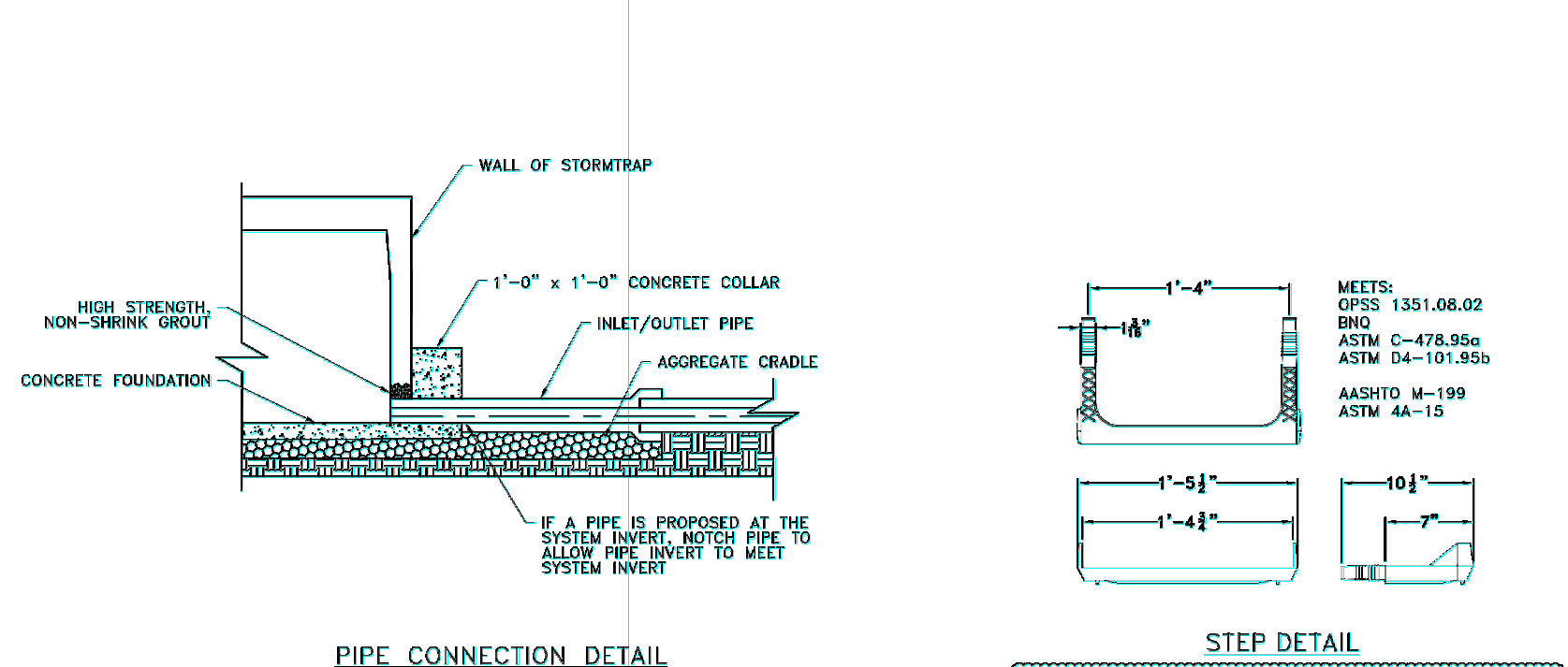
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SHEET TITLE:
 RECOMMENDED
 PIPE / ACCESS
 OPENING
 SPECIFICATIONS

SHEET NUMBER:
5.0

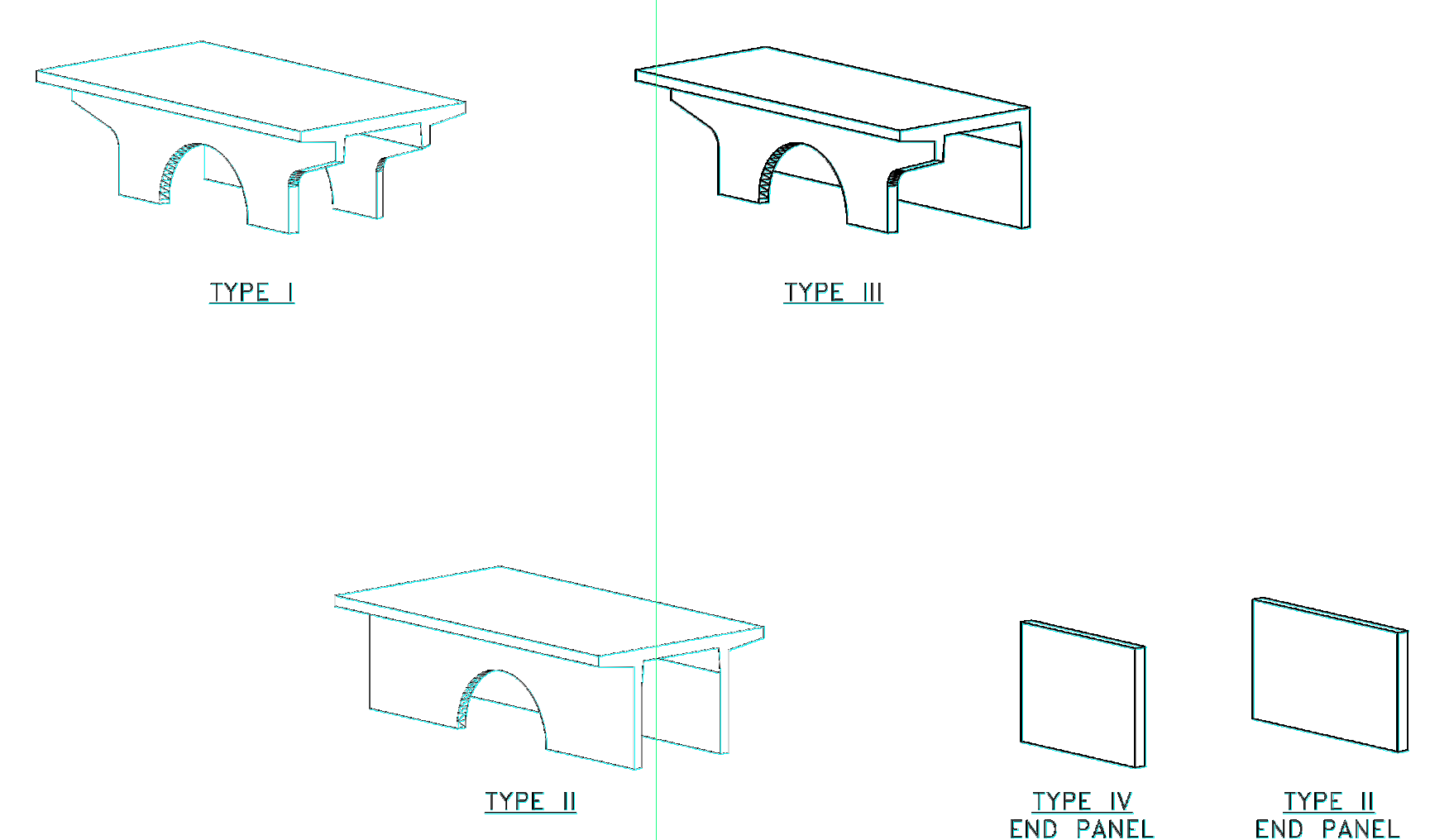
RECOMMENDED PIPE OPENING SPECIFICATION

- MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
- MAXIMUM OPENING SIZE TO BE DETERMINED BY THE MODULE HEIGHT. PREFERRED OPENING SIZE # 36" OR LESS. ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMTRAP FOR REVIEW.
- CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND AN AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
- THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.



MEETS:
 GPC3 1351.08.02
 B10
 ASTM C-478.95a
 ASTM D4-101.95b
 AKSHIO M-199
 ASTM 4A-15

*** NOTICE ***
 03-25-2022
 DUE TO CURRENT INCONSISTENCIES IN THE 16" STEP SUPPLY, STORMTRAP MAY SUBSTITUTE THE 16" STEP WITH THE CLOSEST ALTERNATIVE LENGTH STEP UNTIL THE SUPPLY CHAIN ISSUE IS RESOLVED.



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SCALE:
 NTS

SHEET TITLE:
 SINGLETRAP
 MODULE TYPES

SHEET NUMBER:
6.0

- NOTES:
 1. OPENING LOCATIONS AND SHAPES MAY VARY.
 2. SP - INDICATES A MODULE WITH MODIFICATIONS.
 3. P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
 4. POCKET WINDOW OPENINGS ARE OPTIONAL.

ORLAND PARK

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