

FRONT ELEVATION

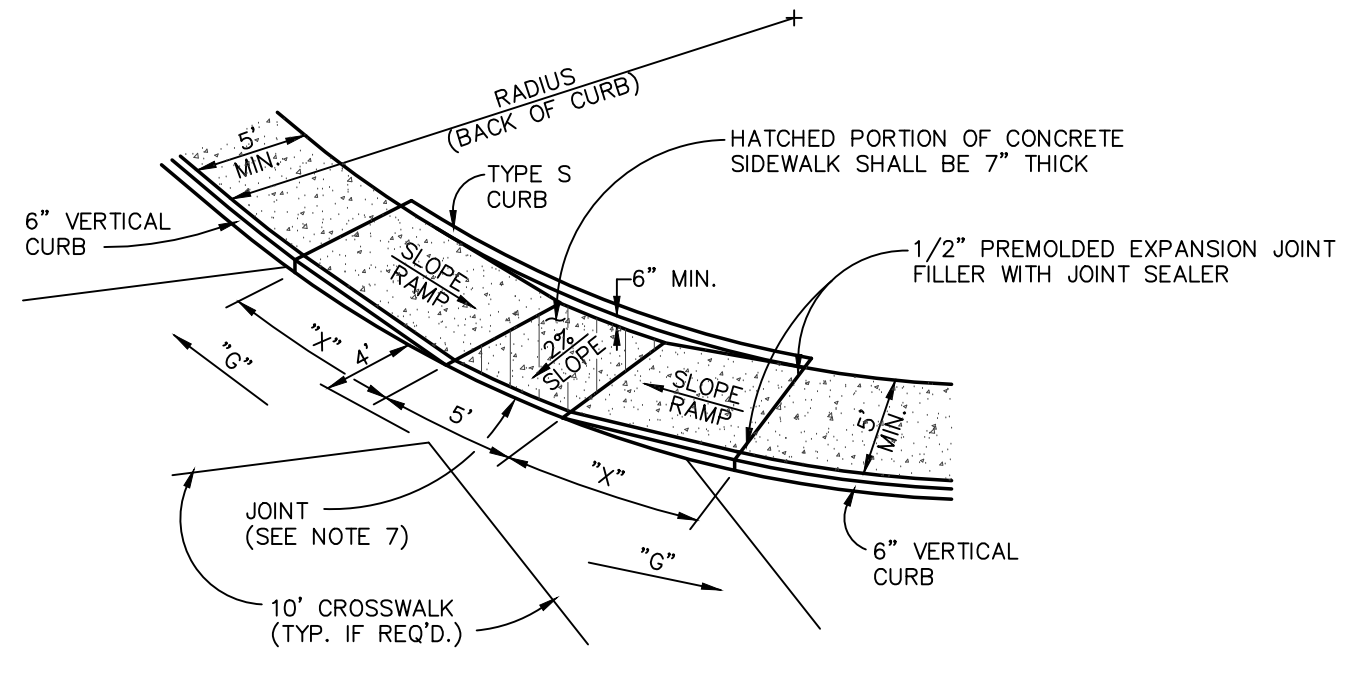
	A	B	C	D
H(FT) INCHES	3	4	5	6
H(FT) INCHES	60	84	96	108
H(FT) INCHES	22	34	34	34
H(FT) INCHES	25	37	49	61
H(FT) INCHES	3	4	5	6
H(FT) INCHES	36	48	60	72

VINYL FENCE DETAIL

N.T.S.

TYPE 10 CURB RAMP	
"G" GRADE ALONG CURB THROUGH ROUNDING (%)	LENGTH OF FLARED SIDE ALONG CURB (L.F.)
NEGATIVE (-) VALUES	6
0 TO +1	7
+1.01 TO +2	8
+2.01 TO +3	10
+3.01 TO +4	12
GREATER THAN +4	15

NOTE: POSITIVE (+) "G" - PROCEEDING AWAY FROM RAMP AND UP A GRADE.
NEGATIVE (-) "G" - PROCEEDING AWAY FROM RAMP AND DOWN A GRADE.



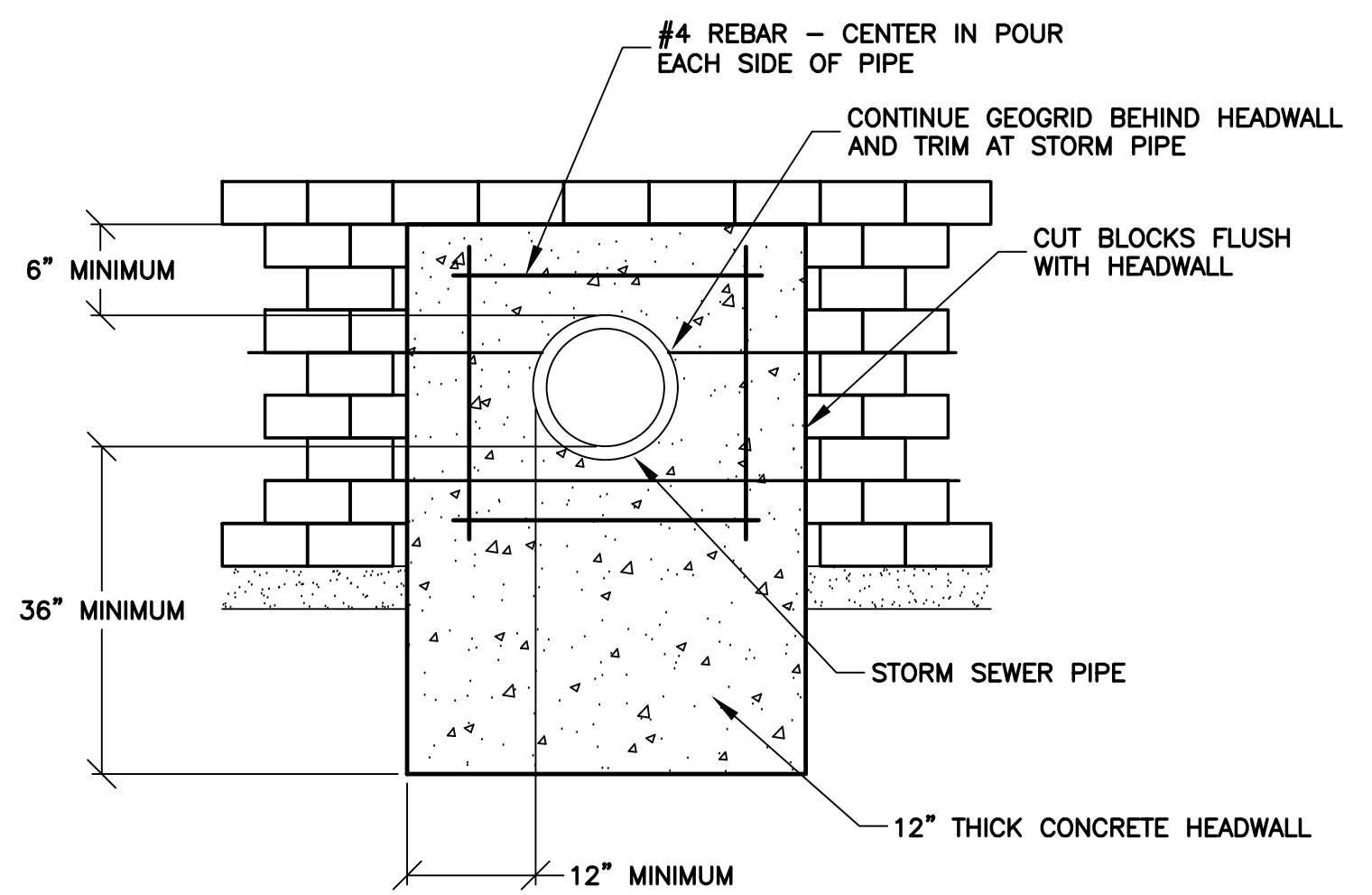
**SIDEWALK AT BACK OF CURB
PARALLEL CURB RAMP - 6" VERTICAL CURB
(TYPE 10)**

GENERAL NOTES:

- DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS.
- SIDEWALKS AND SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE DETAILS AND THE CURRENT APPROVED "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG)
- PROVIDE A LANDING AT THE TOP OF EACH STRAIGHT RAMP WHEN THE GRADE ALONG CURB ("G") IS GREATER THAN +2% AND LESS THAN +7%. FOR OTHER VALUES OF "G", INCLUDING ALL NEGATIVE (-) VALUES, NO LANDING IS REQUIRED.
- MINIMUM SIDEWALK WIDTH ALONG 6" VERTICAL CURB SHALL BE 5 FEET. MINIMUM SIDEWALK WIDTH ALONG 3" ROLLED CURB SHALL BE 4 FEET.
- MAXIMUM SIDEWALK CROSS SLOPE 0.02' / FT.
- ALL SIDEWALK SECTIONS SHALL BE 4" THICK, EXCEPT WHERE INDICATED OTHERWISE BY SHADED PORTION SHOWN ON DETAILS. ALL SIDEWALK SECTIONS AND CURB RAMPS, REGARDLESS OF THICKNESS, SHALL BE PAID FOR AS "CONCRETE SIDEWALK".
- WHERE CURB RAMP MEETS PAVEMENT, BULLNOSE WILL NOT BE PERMITTED.
- CONSTRUCT A DIAGONAL RAMP WHEN THE MAXIMUM CORNER RADIUS ALLOWED FOR A STRAIGHT RAMP IS EXCEEDED.
- IF INTEGRAL CONCRETE CURB IS CONSTRUCTED, STRIKE A DUMMY JOINT ACROSS BOTTOM OF RAMP AT CURB LINE. IF CONCRETE CURB IS DOWLED-ON, BLOCK OUT PAVEMENT TO PROVIDE FULL DEPTH CURB ACROSS RAMP FROM OUTER POINT OF CURB TAPER TO OUTER POINT OF CURB TAPER.

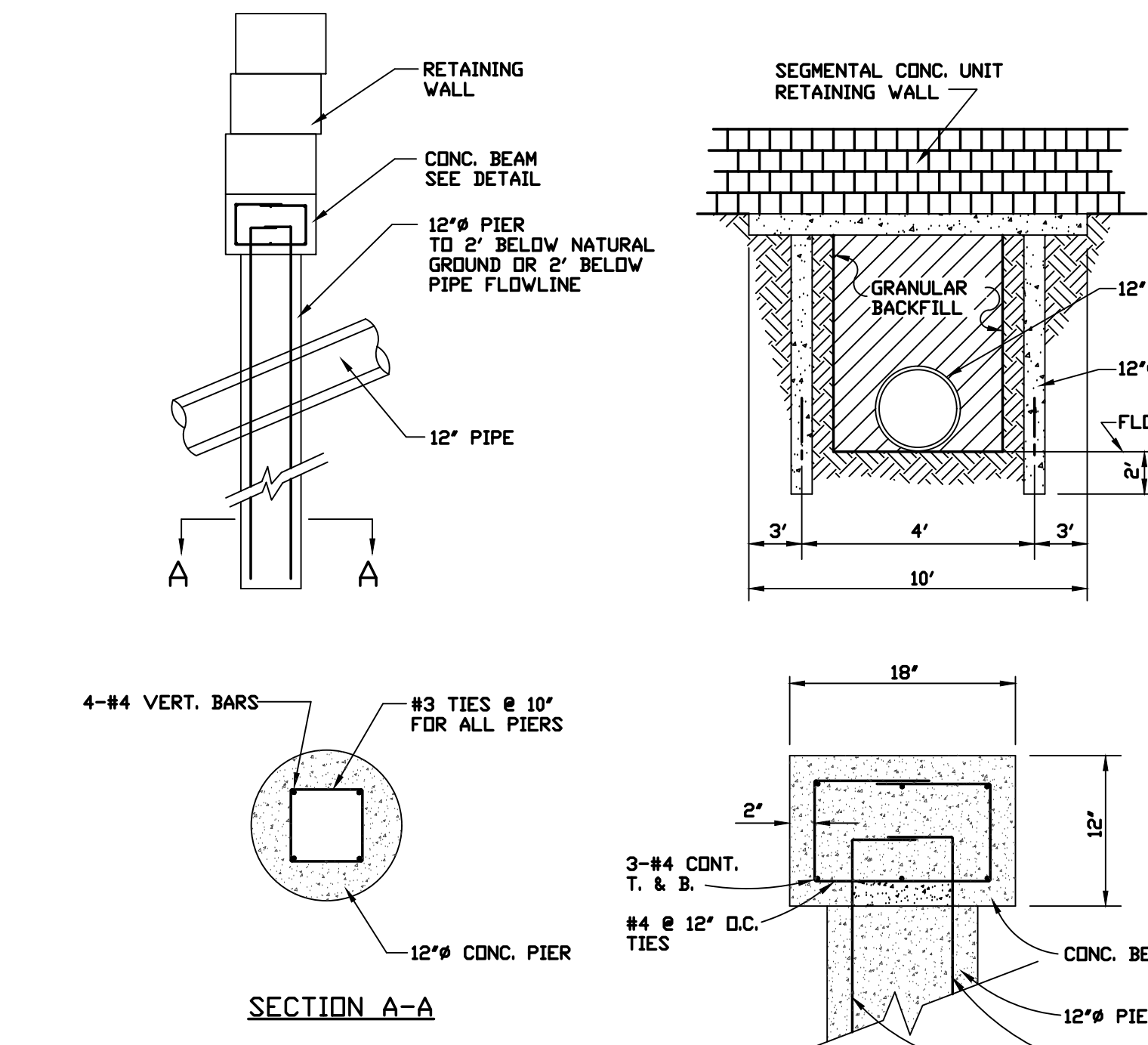
CURB RAMP DETAILS

N.T.S.



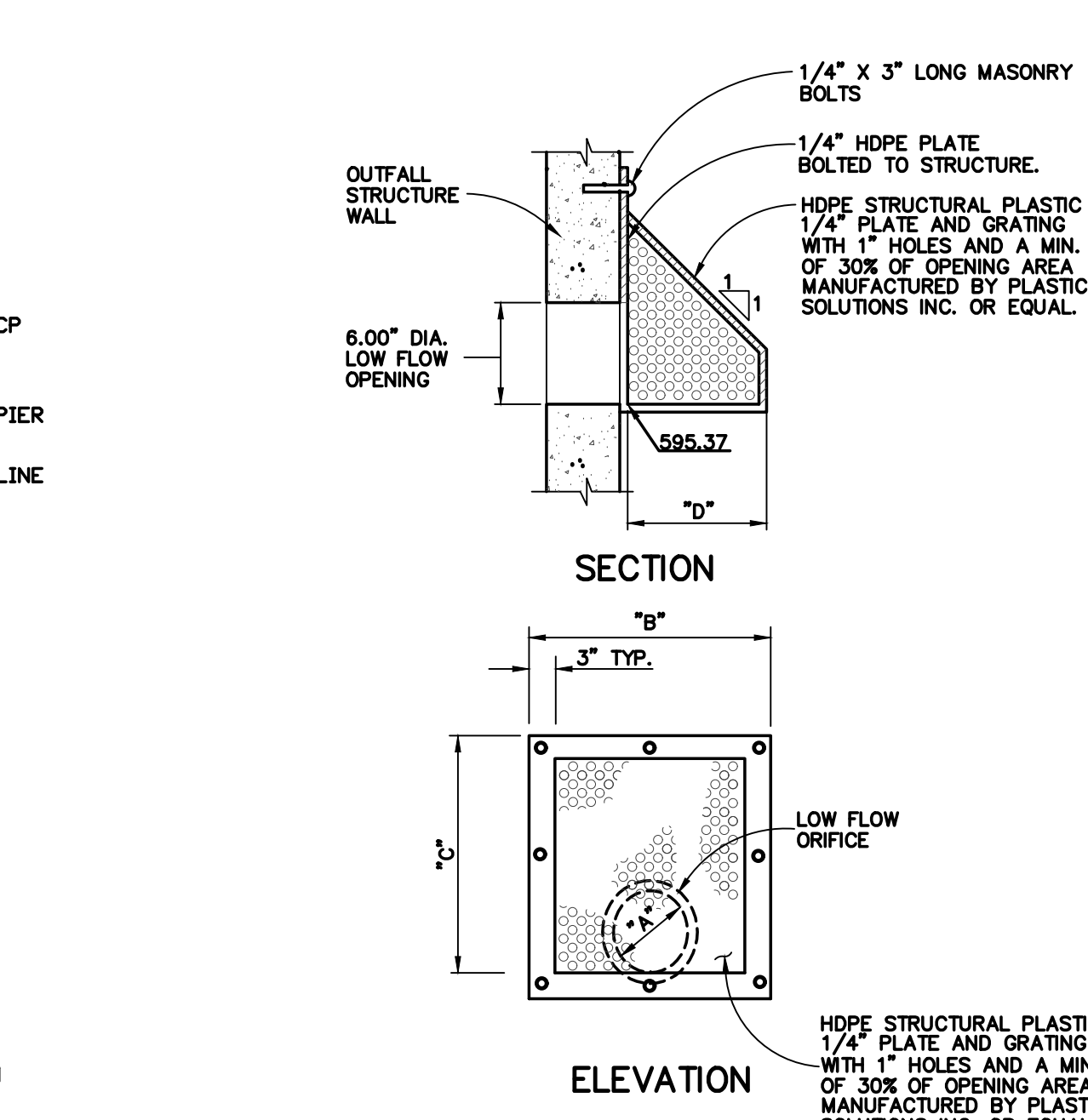
PIPE PENETRATION DETAIL

(N.T.S.)



BRIDGE BEAM DETAIL

N.T.S.



DETENTION BASIN OUTFALL STRUCT.

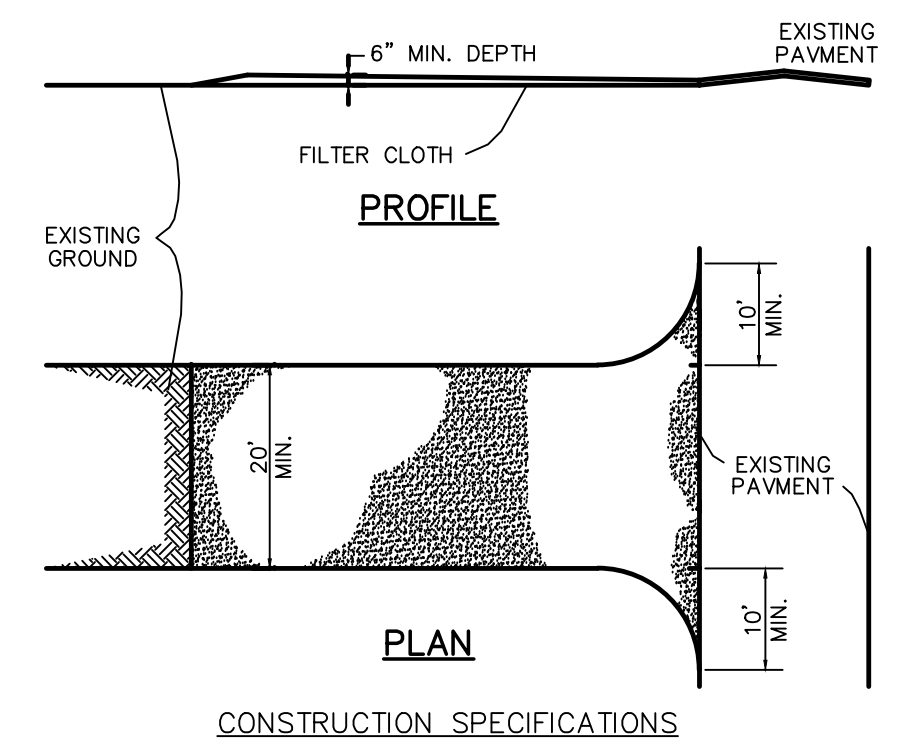
6" DIA. LOW FLOW ORIFICE

TRASH RACK

(N.T.S.)

DIMENSION CHART

LOW FLOW CULVERT DIA. "A"	"B"	"C"	"D"
1.5" - 6"	18"	15"	6"
8" - 15"	24"	21"	12"
18" - 24"	42"	39"	30"

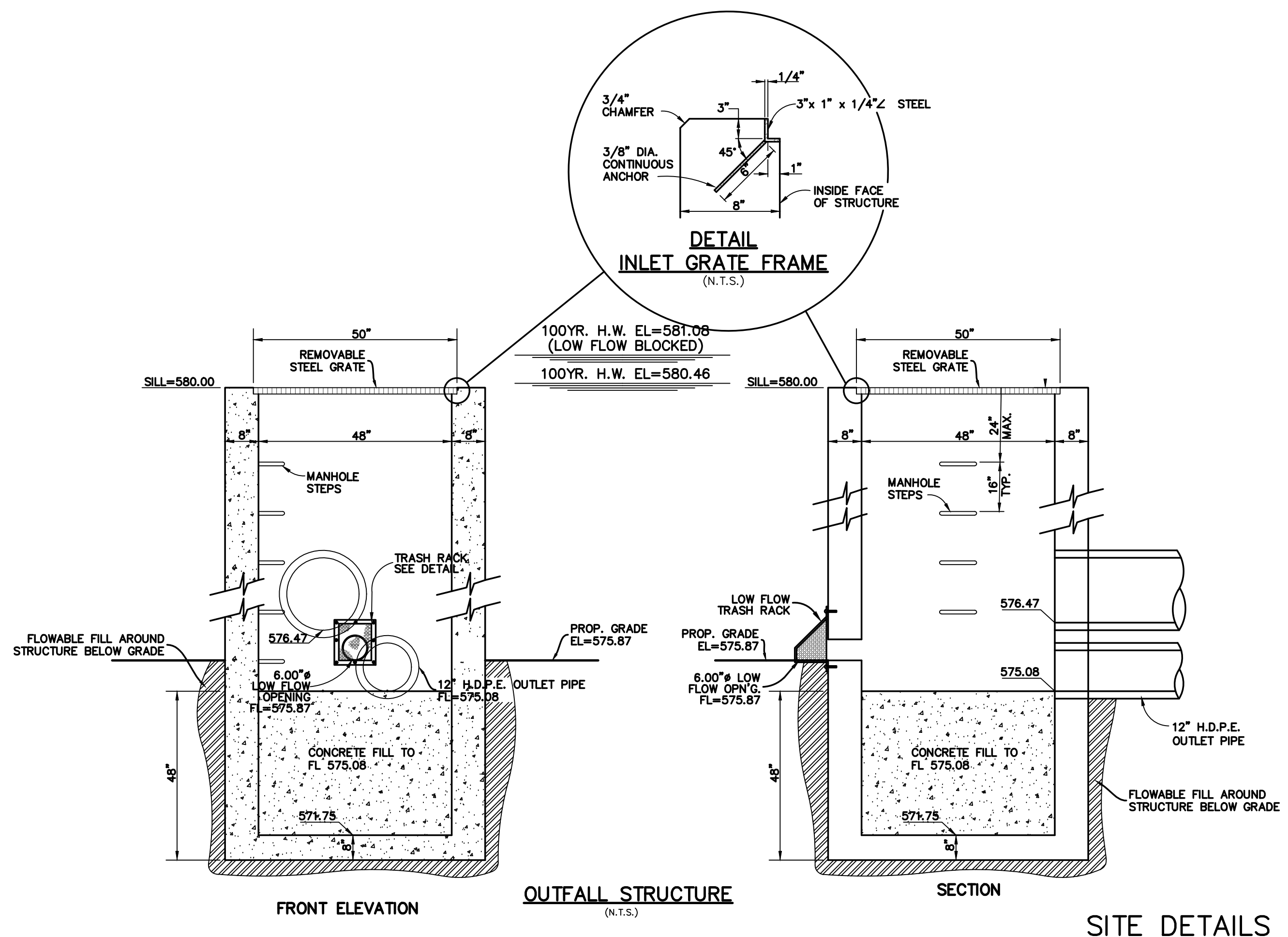


CONSTRUCTION SPECIFICATIONS

- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE/WASHDOWN AREA

(N.T.S.)



FRONT ELEVATION

OUTFALL STRUCTURE

(N.T.S.)

SECTION

SITE DETAILS

ADS, Inc. Drainage Handbook Specifications • 1-15

ADS HP STORM 12"- 60" PIPE SPECIFICATION

Scope
This specification describes 12- through 60-inch (300 to 1500 mm) ADS HP Storm pipe for use in gravity-flow storm drainage applications.

Pipe Requirements
ADS HP Storm pipe shall have a smooth interior and annular exterior corrugations.
• 12- through 60-inch (300 to 1500 mm) pipe shall meet ASTM F2881 or AASHTO M330
• Manning's "n" value for use in design shall be 0.012

Joint Performance
Pipe shall be joined using a bell & spigot joint meeting the requirements of ASTM F2881 or AASHTO M330. The joint shall be watertight according to the requirements of ASTM D3212. Gaskets shall meet the requirements of ASTM F477. Gasket shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly. 12- through 60-inch (300 to 1500 mm) diameters shall have an exterior bell wrap installed by the manufacturer.

Fittings
Fittings shall conform to ASTM F2881 or AASHTO M330. Bell and spigot connections shall utilize a welded or integral bell and valley or inline gaskets meeting the watertight performance requirements of ASTM D3212.

Field Pipe and Joint Performance
To assure watertightness, field performance verification may be accomplished by testing in accordance with ASTM F1417 or ASTM F2487. Appropriate safety precautions must be used when field-testing any pipe material. Contact the manufacturer for recommended leakage rates.

Material Properties
Polypropylene compound for pipe and fitting production shall be impact modified copolymer meeting the material requirements of ASTM F2881, Section 5 and AASHTO M330, Section 6.1.

Installation
Installation shall be in accordance with ASTM D3212 and ADS recommended installation guidelines, with the exception that minimum cover in traffic areas for 12- through 48-inch (300 to 1200 mm) diameters shall be one foot (0.3 m) and for 60-inch (1500 mm) diameter the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted), Class 2 (minimum 90% SPD), or Class 3 (minimum 95%) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.04. Contact your local ADS representative or visit our website at www.adsinc.com for a copy of the latest installation guidelines.

Build America, Buy America (BABA)
ADS HP Storm pipe (per AASHTO), manufactured in accordance with ASTM F2881 or AASHTO M330, complies with the requirements in the Build America, Buy America (BABA) Act.

Pipe Dimensions

Nominal Pipe D.	12	15	18	24	30	36	42	48	60
Average Pipe I.D.	12.2	15.1	18.2	24.1	30.2	36.0	42.0	47.8	59.9
"n" (Manning)	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Average Pipe O.D.	14.5	17.7	21.4	28.0	35.5	41.5	47.4	54.1	67.1
"t" (min)	28	40	54	71	92	108	126	147	176
Minimum Pipe Stiffness ¹	75	60	50	50	46	40	35	30	30
① In (kN/m ²)(lb/in. (24in.))	(517)	(414)	(345)	(345)	(317)	(276)	(241)	(211)	(207)

¹Minimum pipe stiffness values listed contact representative for average values.

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PROJECT TITLE
LAND PLANNING • CIVIL ENGINEERING

Owner Information
Greater Midwest Builder LTD
1551 Wall St. Ste. 220
St. Charles, Missouri 63303

Developer
StorCo LLC
24 O'Fallon Sq.
O'Fallon, Missouri 63366

City of O'Fallon Site Plan

Approval Date
3-2-2023

Permit No.

Page No.
C10

Professional Engineer
WILLIAM AUGUST HEYSE, P.E.
PROFESSIONAL ENGINEER # 4297

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MO. CERT. OF AUTHORITY FOR ENGINEERING
LIC. NO. 2019001202