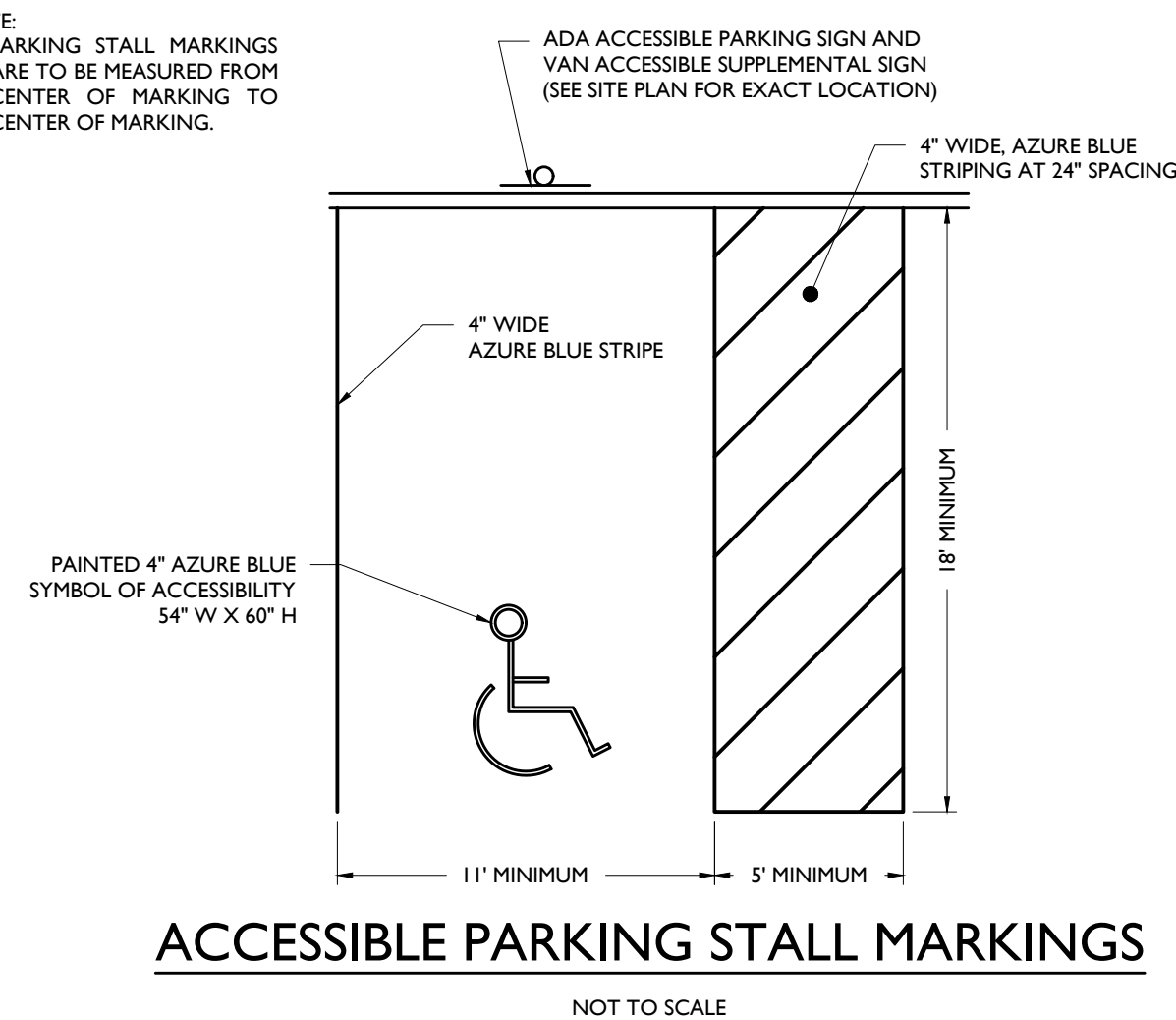
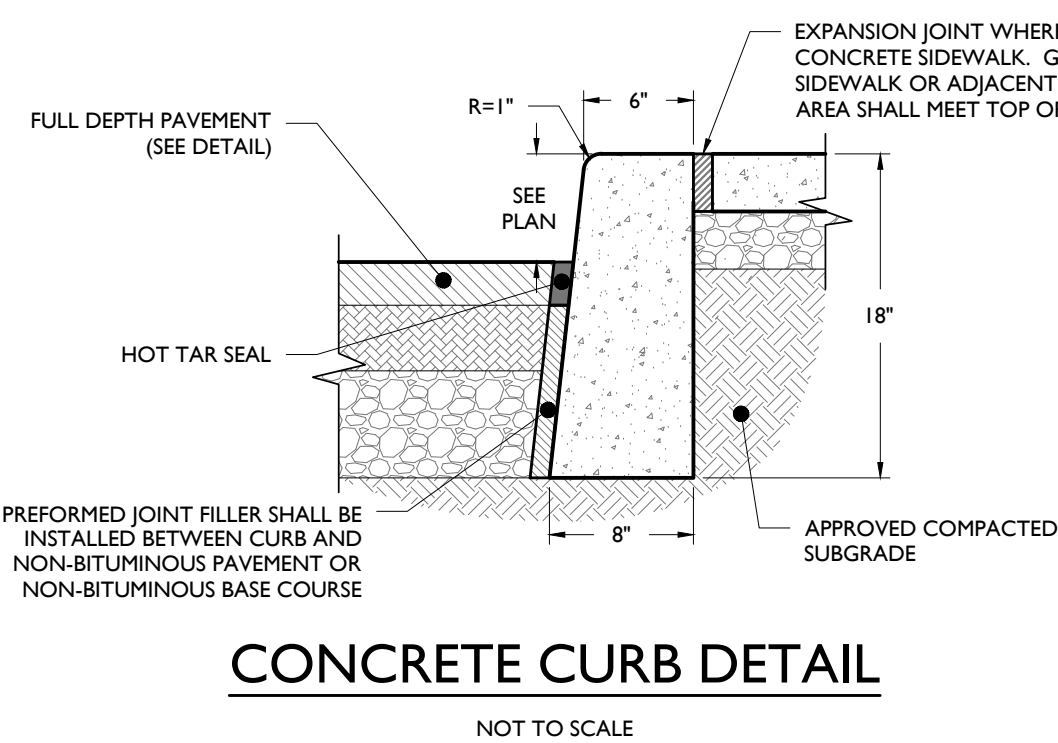
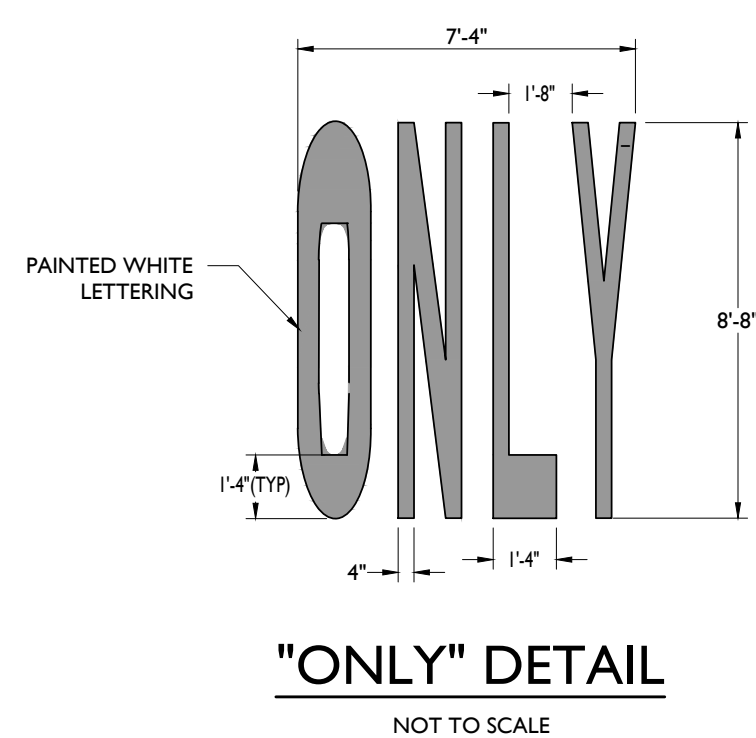
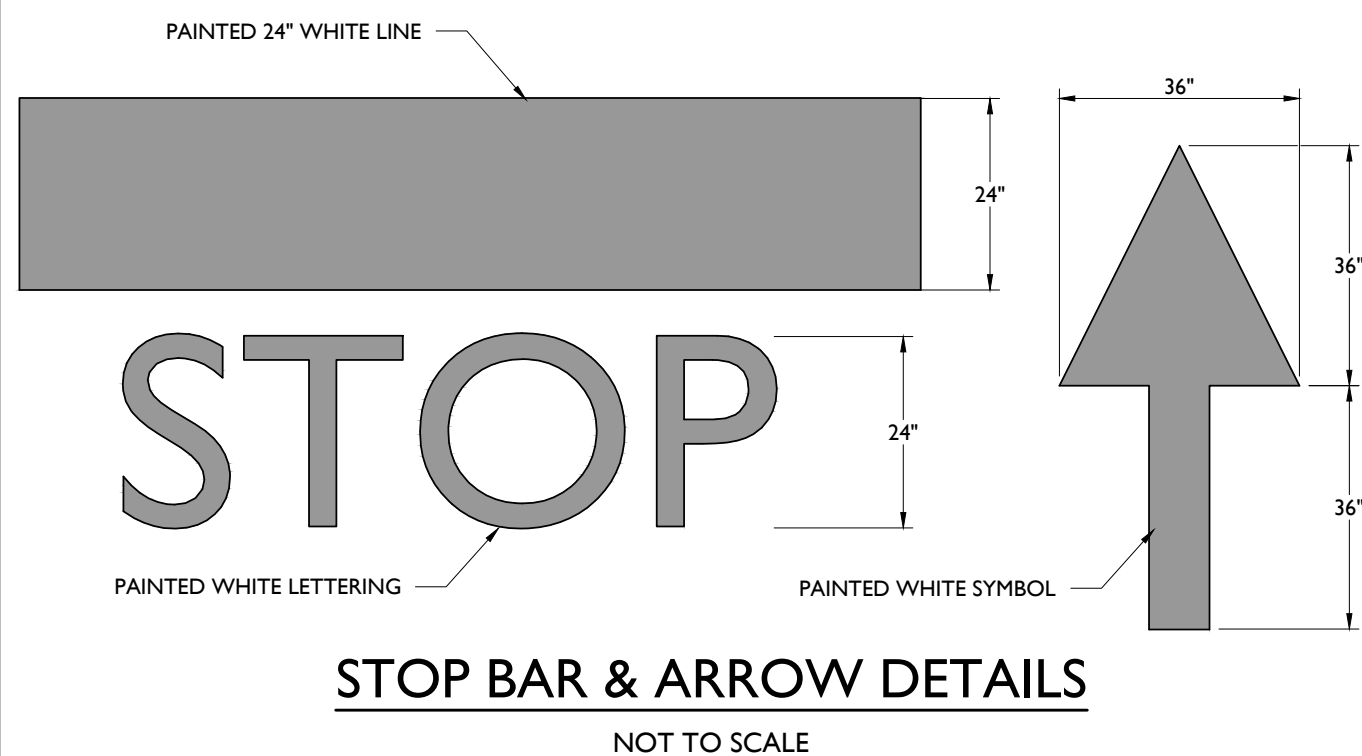
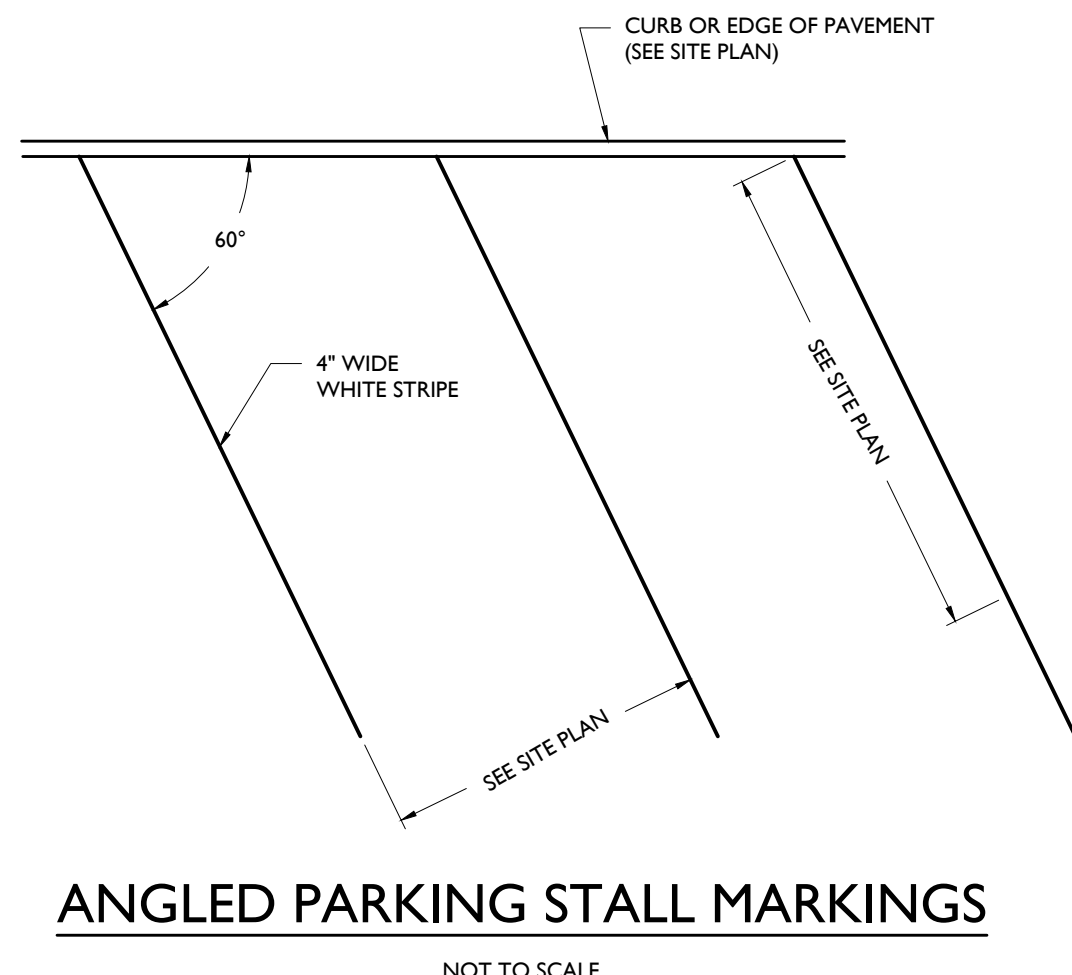
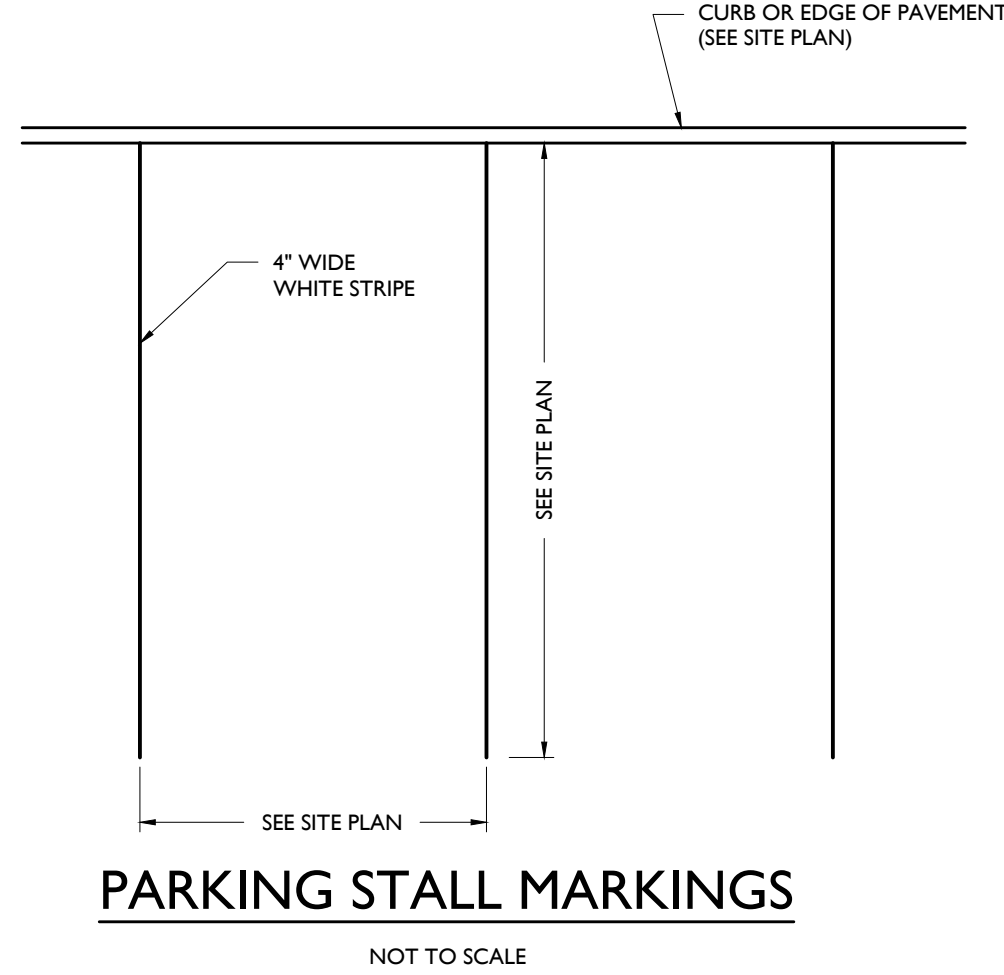
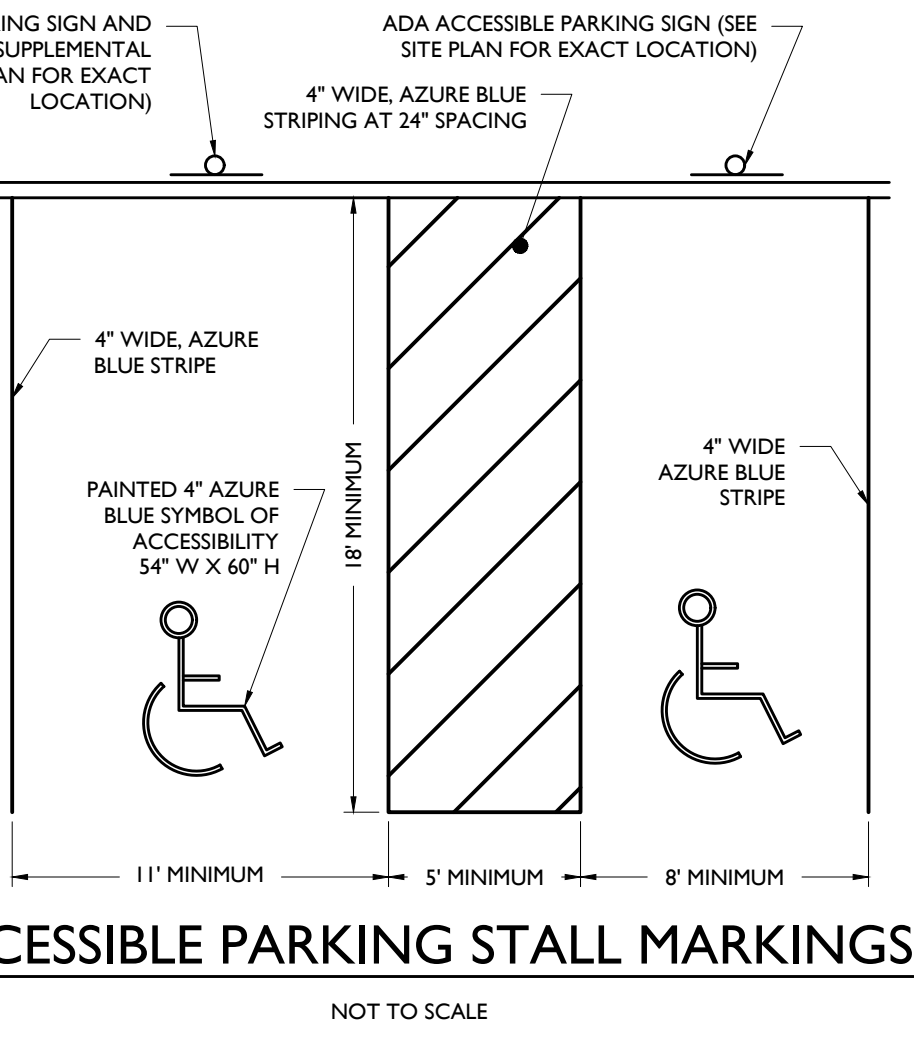


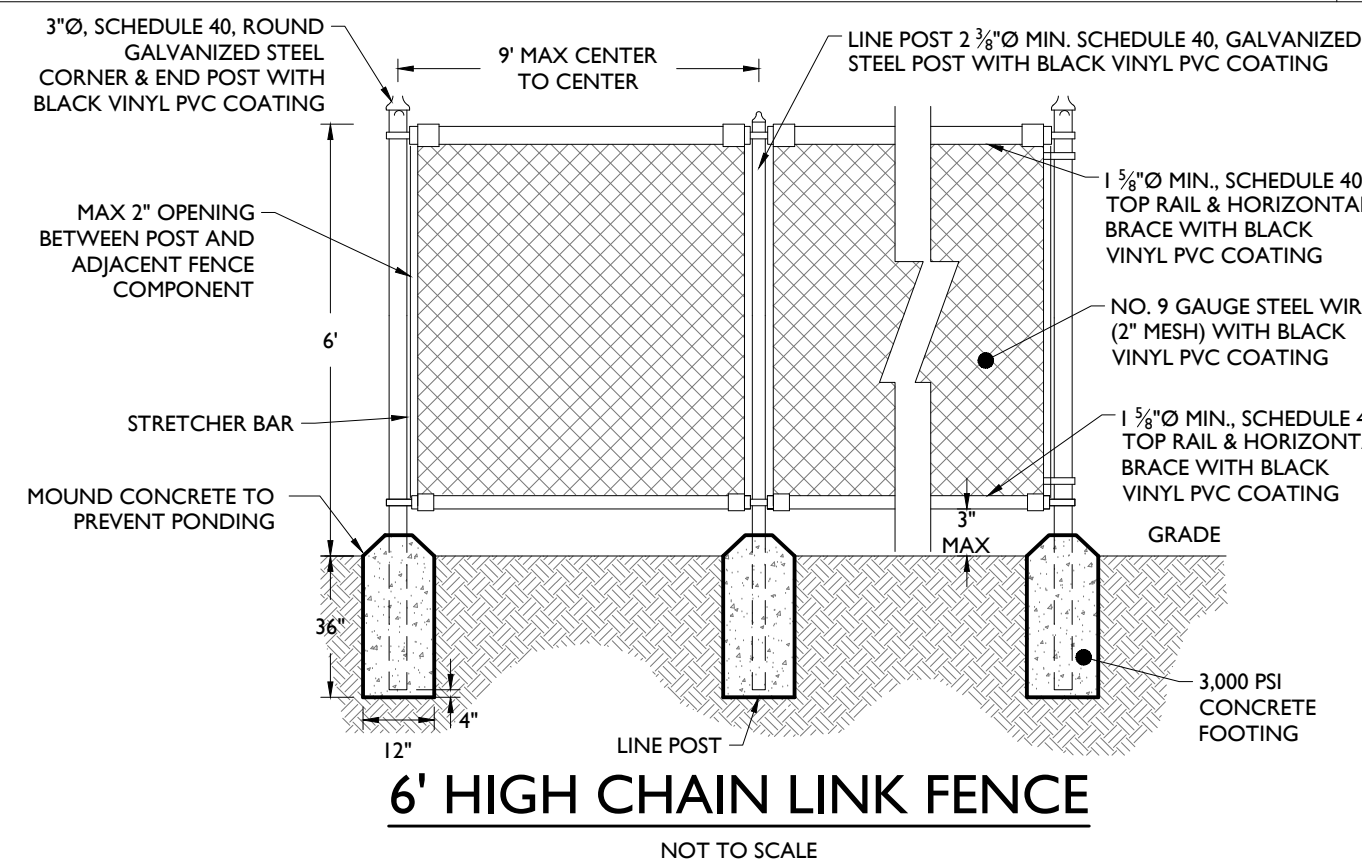
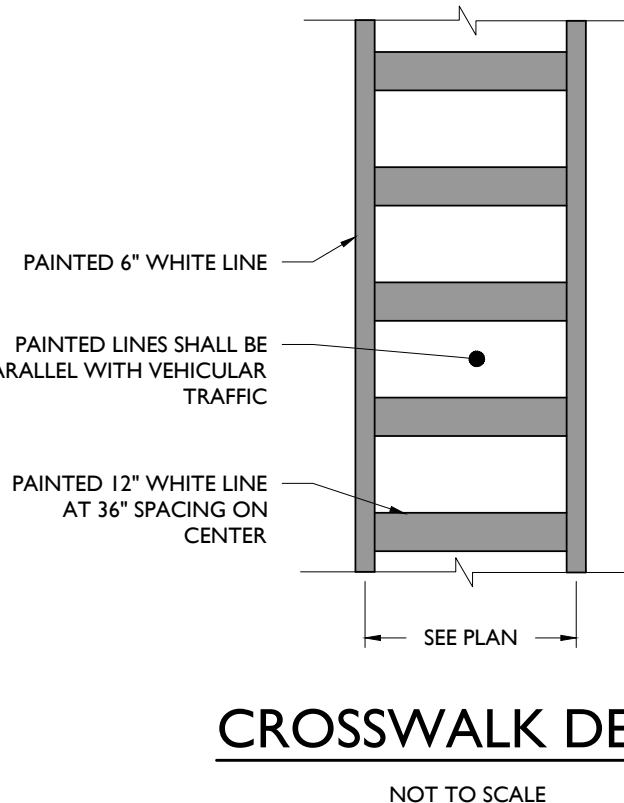
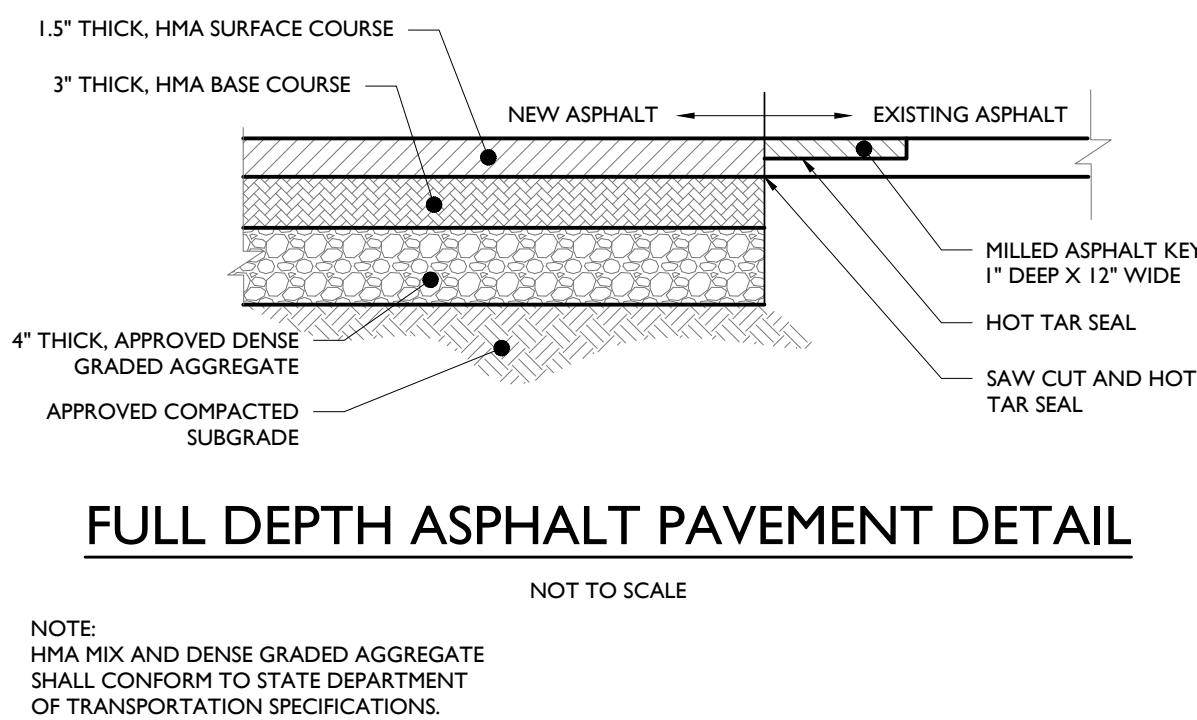
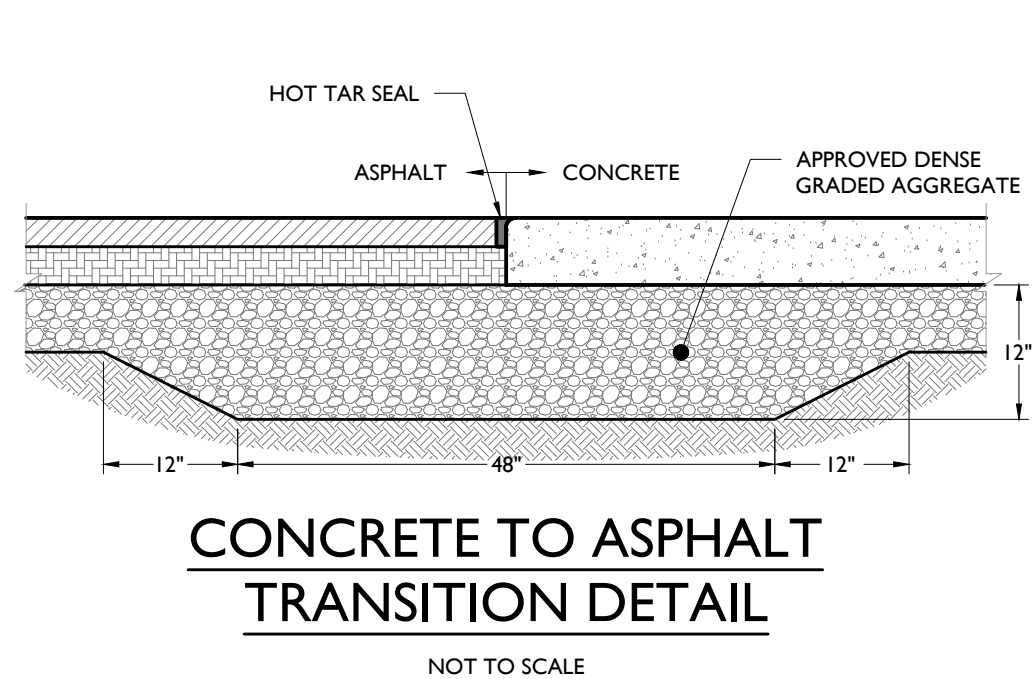
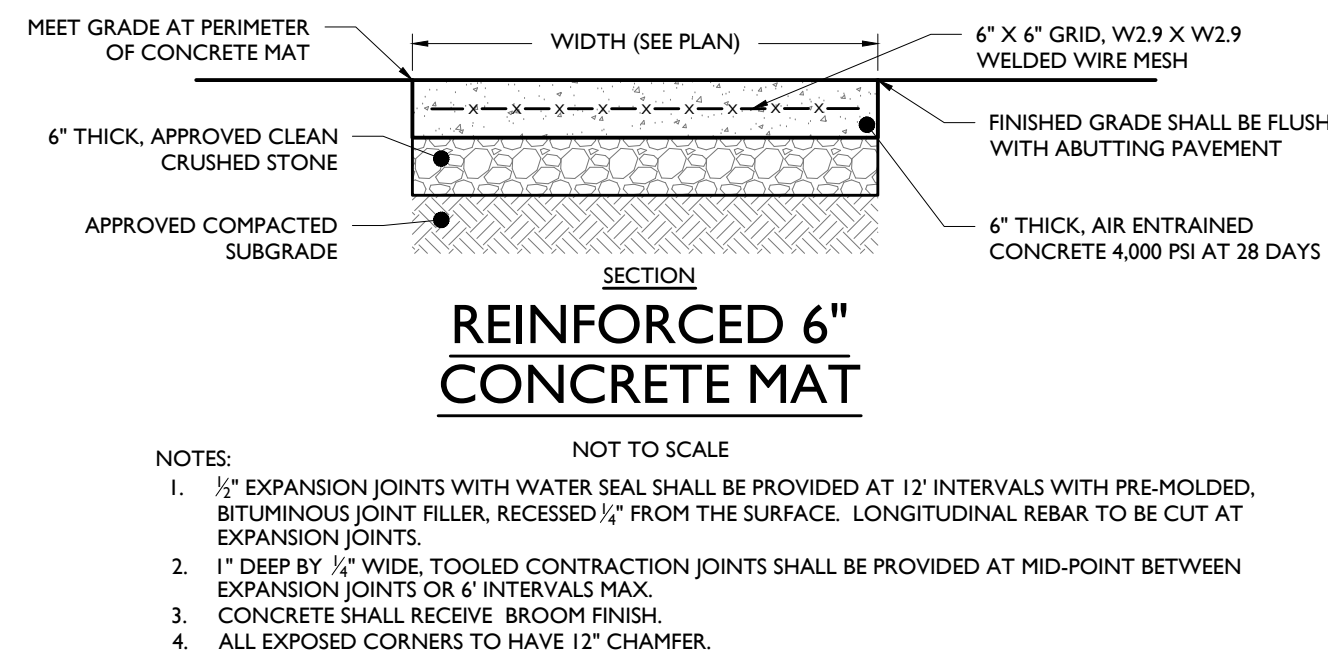
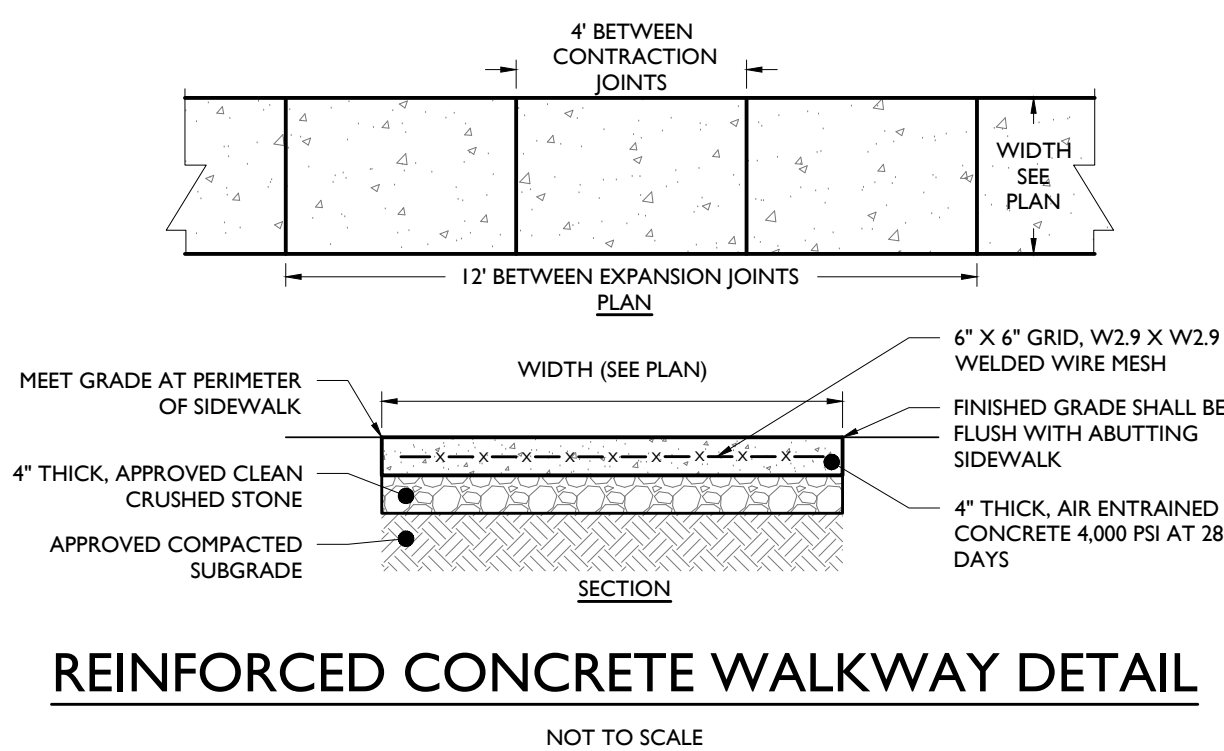
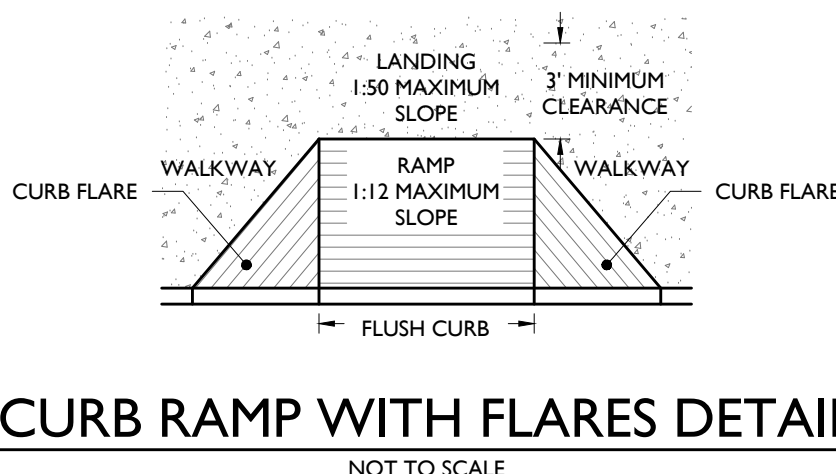
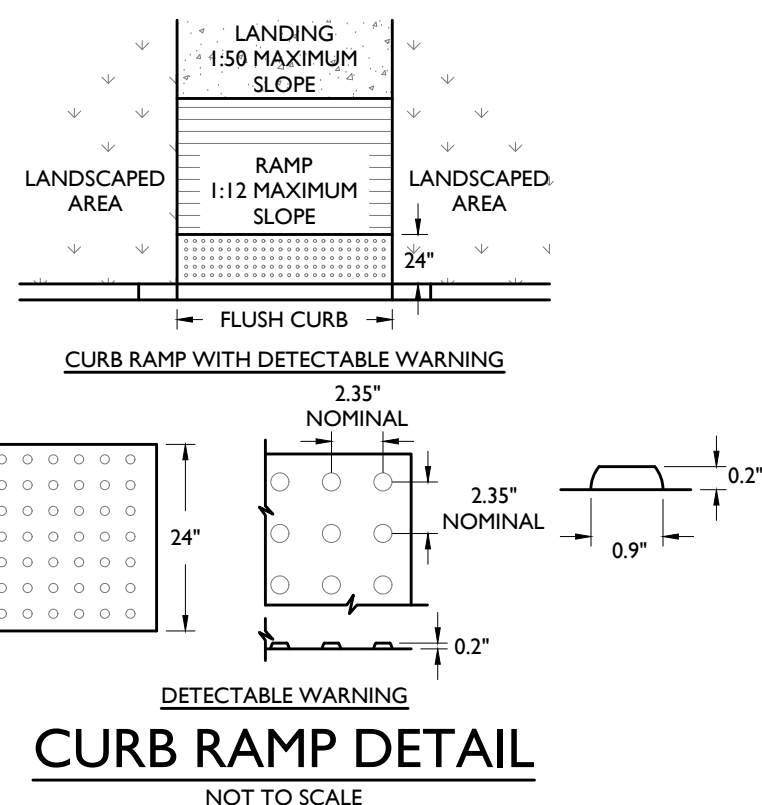
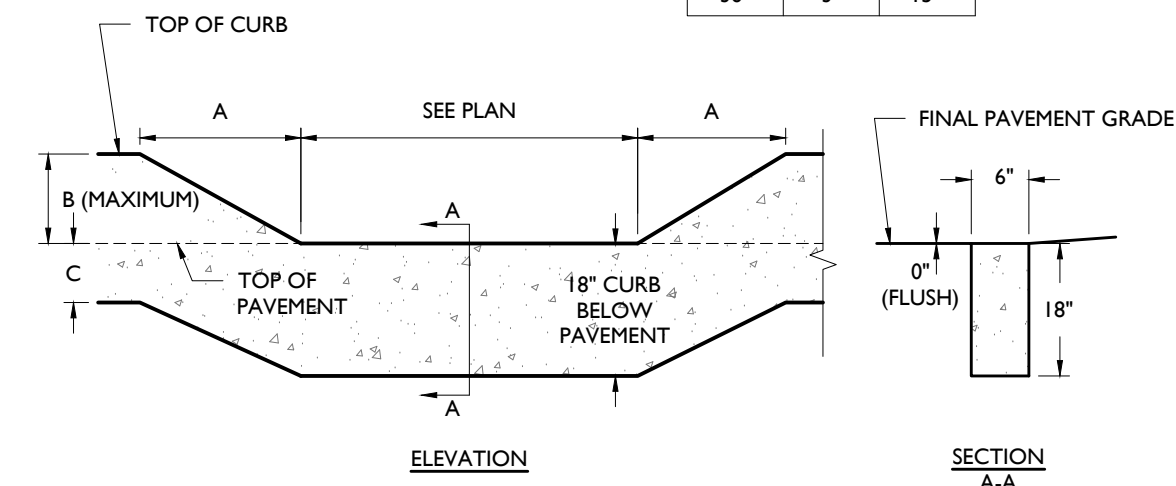
NOTE:
1. PARKING STALL MARKINGS
ARE TO BE MEASURED FROM
CENTER OF MARKING TO
CENTER OF MARKING.



NOTE:
I. PARKING STALL MARKINGS ARE TO BE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.

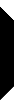


A	B	C
72"	6"	12"
60"	5"	13"
48"	4"	14"
36"	3"	15"



ISSUE	DATE	BY	DESCRIPTION
1	12/29/20	PC	FIRST SUBMISSION
2	01/27/2021	AMB	COUNTY SUBMISSION
3	03/10/2021	AMB	TOWNSHIP SUBMISSION
4	04/02/2021	PC	REVISED PER NIDEP COMMENTS
5	04/22/2021	PC	REVISED PER MUNICIPAL COMMENTS
6	05/10/2021	PC	REVISED PER NIDEP COMMENTS
7	05/13/2021	PC	REVISED PER TOWNSHIP

NOT APPROVED FOR CONSTRUCTION



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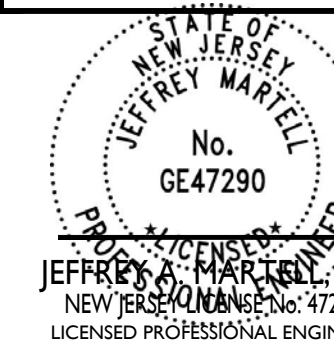
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15 Spring Street, Princeton, NJ 08542
Phone 609.362.6900

PRELIMINARY & FINAL MAJOR SITE PLANS

M&M NEPTUNE, LLC
PROP IMPROVEMENTS

**BLOCK 701, LOT 1 (TAX MAP SHEET 7)
704 N.J. ROUTE 35
TOWNSHIP OF NEPTUNE
MONMOUTH COUNTY, NEW JERSEY**



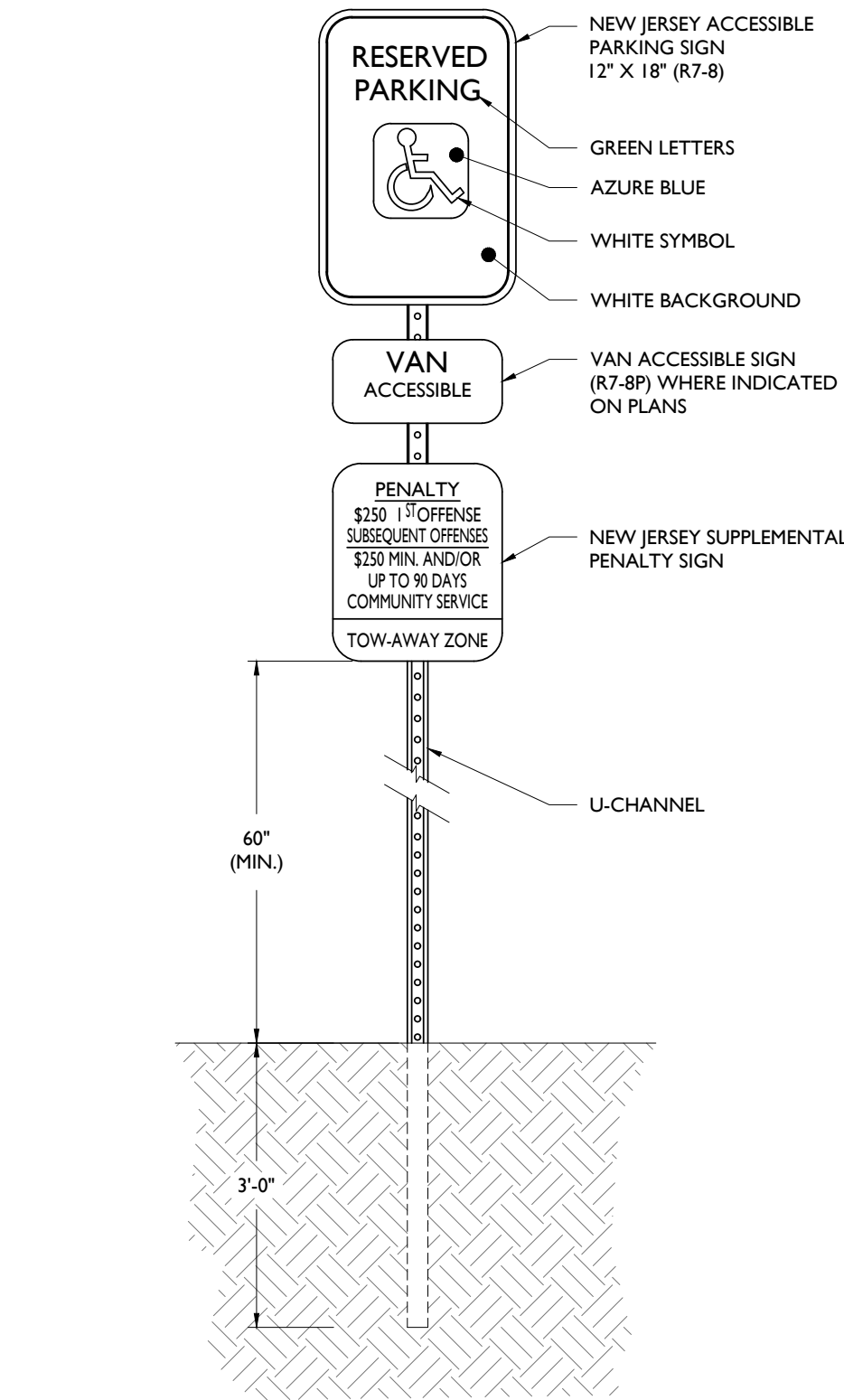
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SCALE: AS SHOWN	PROJECT ID: PRI-200142
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CONSTRUCTION DETAILS

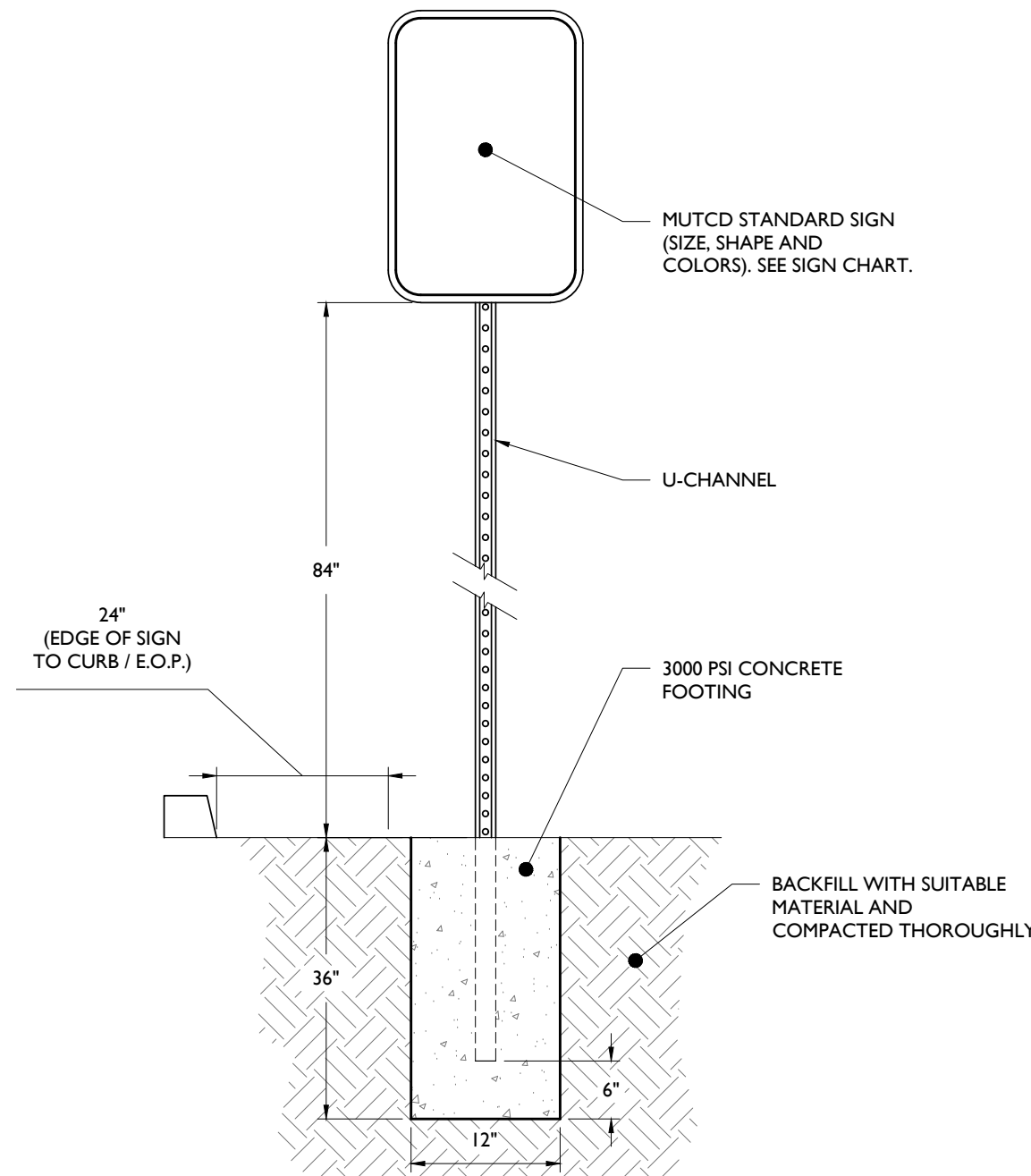
DRAWING:

C-14



ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE



SIGN POST DETAIL

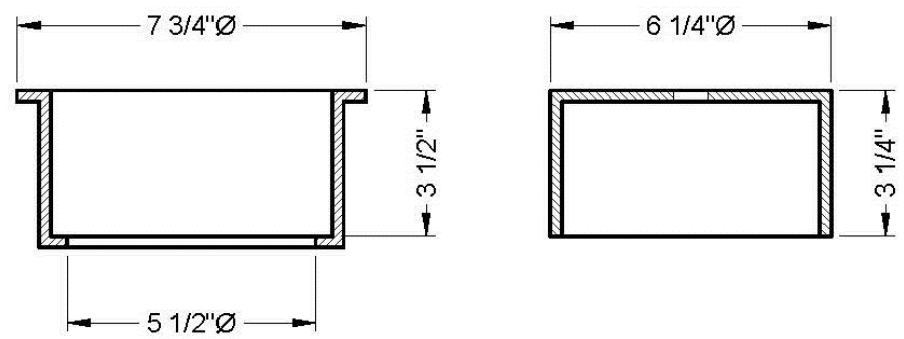
NOT TO SCALE

M.U.T.C.D. NUMBER	TEXT	COLOR		SIZE OF SIGN (WIDTH X HEIGHT)	TYPE OF MOUNT
		LEGEND	BACKGROUND		
STOP SIGN (R1-1)	STOP	WHITE	RED	36"x36"	GROUND
DO NOT ENTER (R5-1)	DO NOT ENTER	RED	WHITE	30"x30"	GROUND

NOTE:
1. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), EXCEPT AS NOTED.
2. ALL SIGNS SHALL BE MOUNTED AS TO NOT OBSTRUCT THE SHAPE OF "STOP" (R1-1) AND "YIELD" (R1-2) SIGNS.

SIGN DATA TABLE

NOT TO SCALE

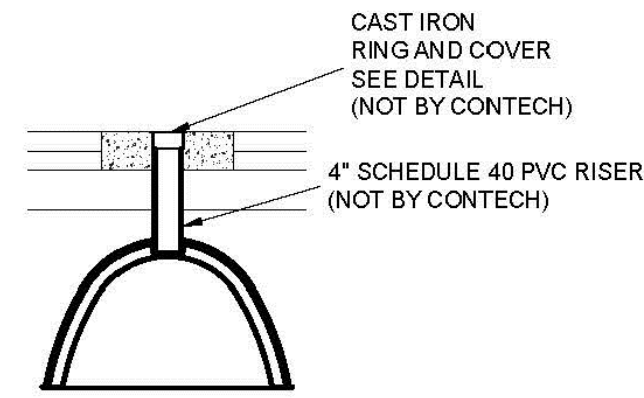


RING AND COVER DETAIL

NOT TO SCALE

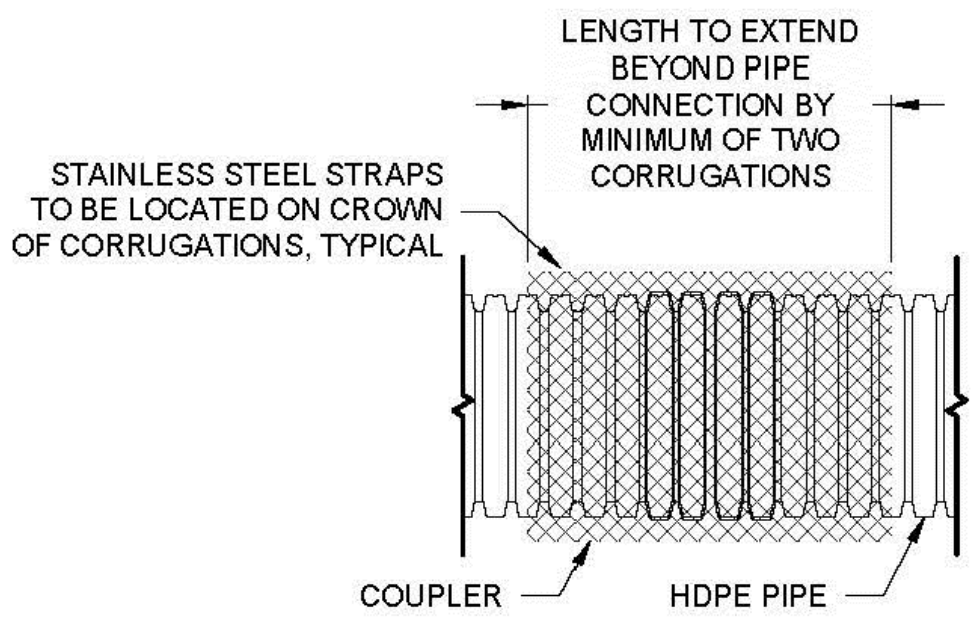
INSTALLATION NOTES

- CHAMBERMAXX INSTALLATION GUIDE TO BE REVIEWED BY CONTRACTOR PRIOR TO INSTALLATION.
- PRIOR TO PLACING BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, UNSUITABLE MATERIAL SHALL BE REMOVED AND BROUGHT BACK TO GRADE WITH FILL MATERIAL AS APPROVED BY THE ENGINEER OF RECORD. ONCE THE FOUNDATION PREPARATION IS COMPLETE, THE BEDDING MATERIAL CAN BE PLACED.
- THE SCOUR PROTECTION NETTING TO EXTEND 1'-0" BEYOND OUTSIDE EDGE OF INLET CHAMBERS.
- COVER ANY OPEN VOID SPACES GREATER THAN 3/4" ON CHAMBERS WITH A NON-WOVEN GEOTEXTILE TO PREVENT INFILTRATION OF BACKFILL MATERIAL.
- STONE EMBEDMENT MATERIAL SHALL BE INSTALLED TO 95% STANDARD PROCTOR DENSITY AND PLACED IN 6-INCH TO 8-INCH LIFTS SUCH THAT THERE IS NO MORE THAN A TWO LIFT DIFFERENTIAL BETWEEN ANY OF THE CHAMBERS AT ANY TIME. GRANULAR BACKFILL MATERIAL SHALL BE COMPACTED TO 80% SPD. BACKFILLING SHALL BE ADVANCED ALONG THE LENGTH OF THE CHAMBER ROWS AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING AND DISPLACEMENT OF THE CHAMBERS. THE MINIMUM CHAMBER SPACING MUST BE MAINTAINED.
- REFER TO CHAMBERMAXX INSTALLATION GUIDE FOR TEMPORARY CONSTRUCTION LOADING GUIDELINES.
- IT IS ALWAYS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.
- GENERAL INSTALLATION METHODS AND MATERIALS TO BE IN ACCORDANCE WITH ASTM D2321.



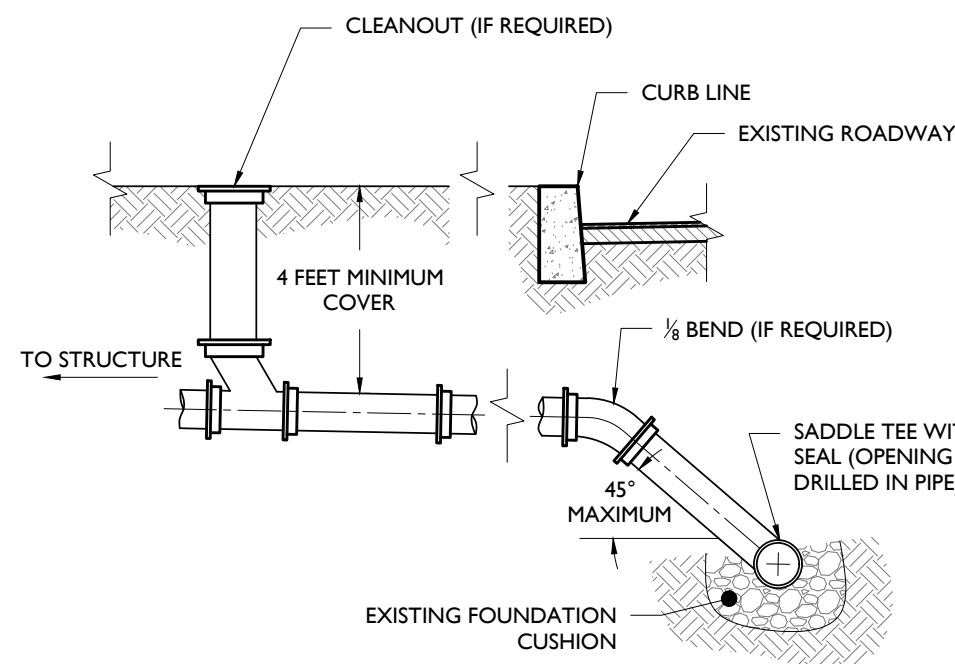
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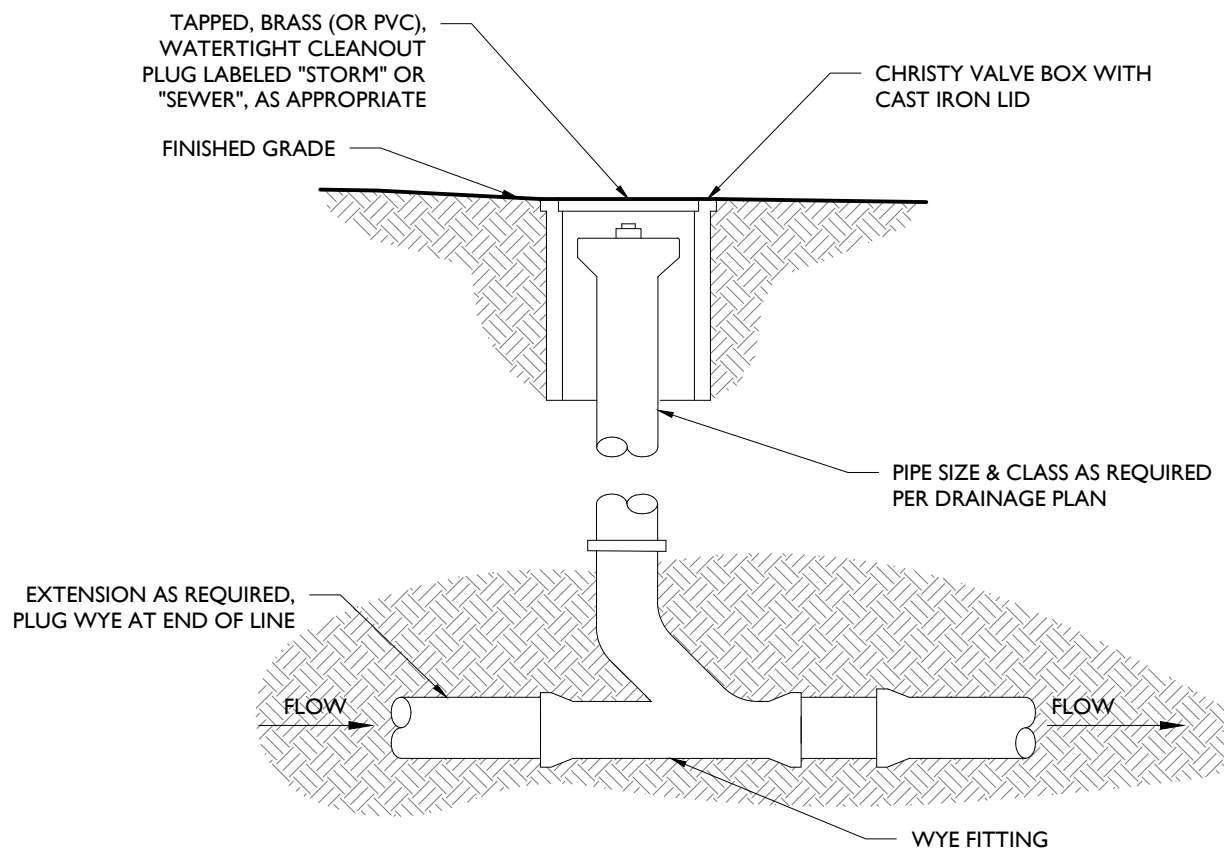
HDPE COUPLER DETAIL

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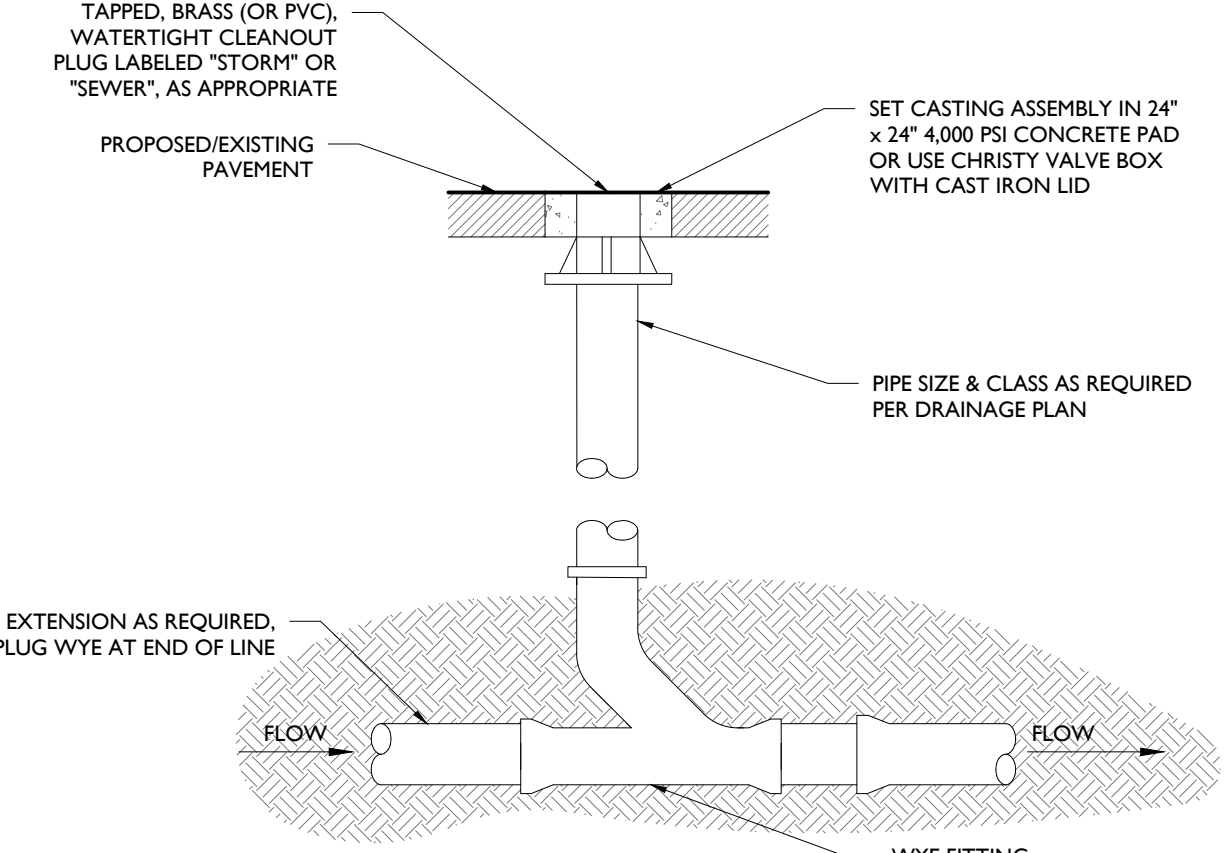
SEWER CONNECTION DETAIL

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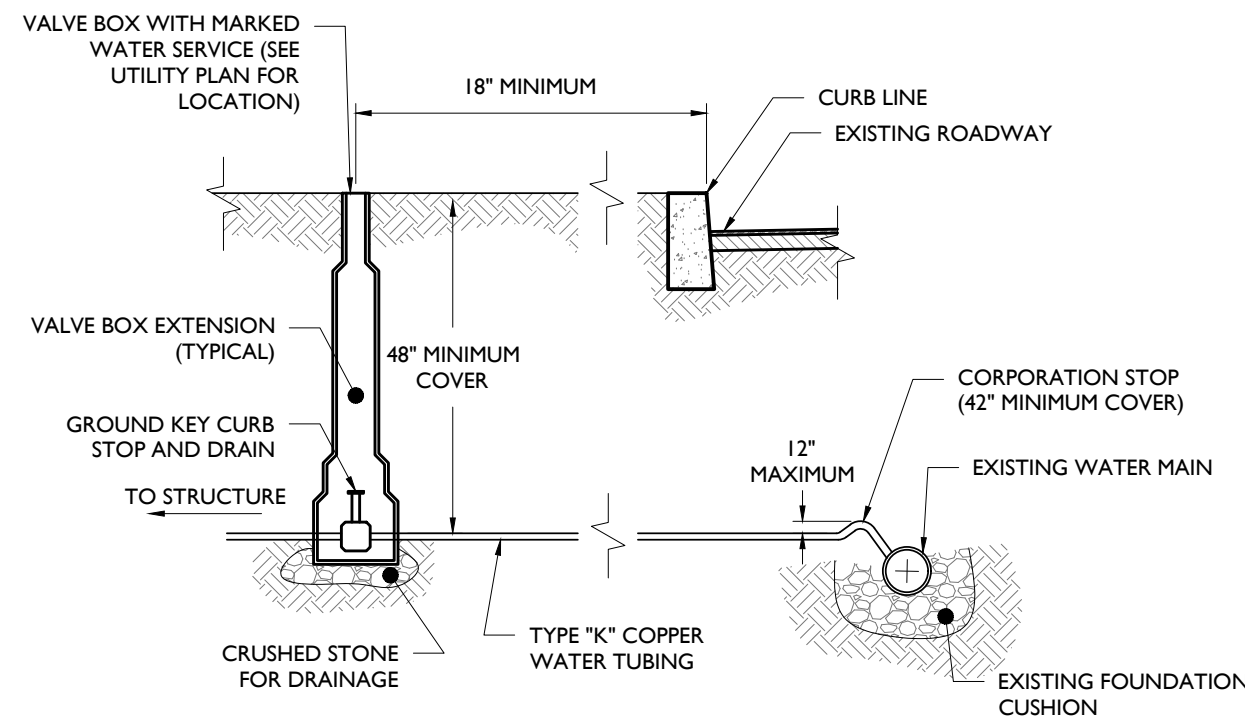
SOFTSCAPE CLEAN-OUT

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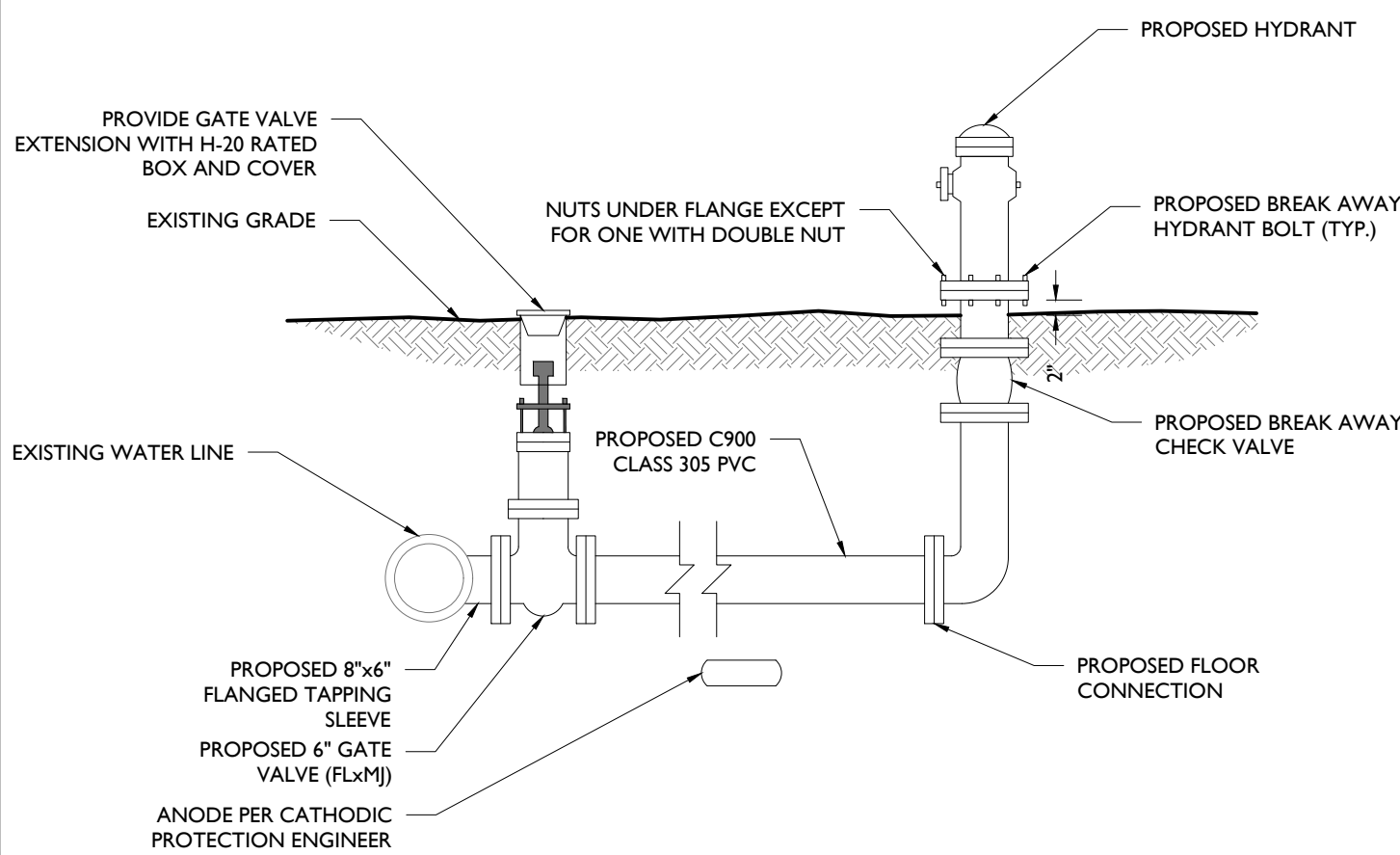
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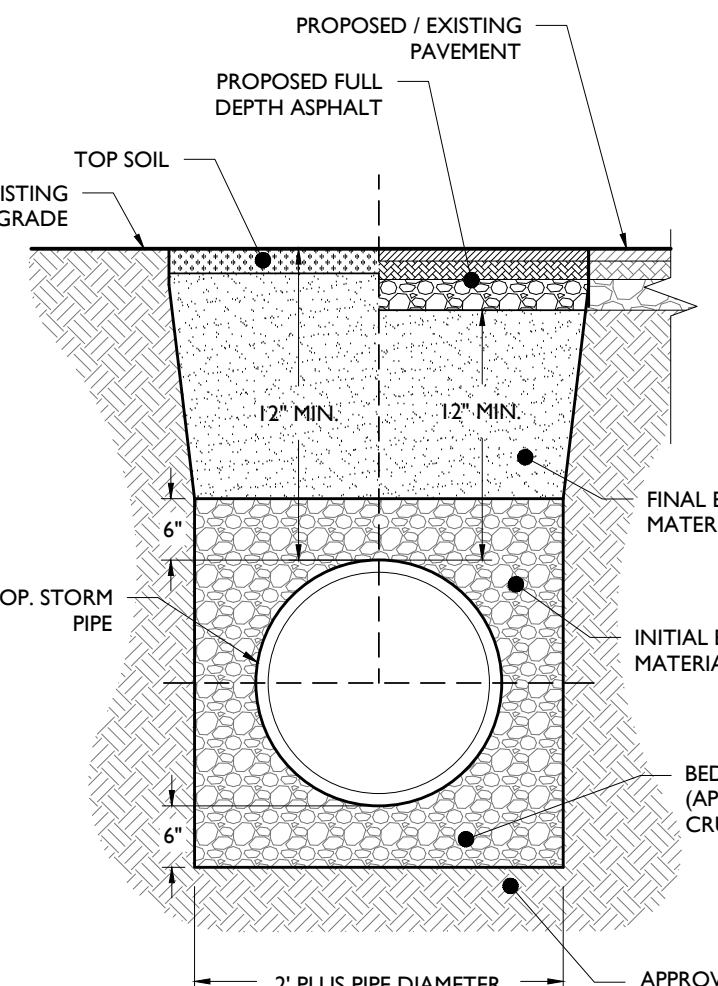


WATER CONNECTION DETAIL

NOT TO SCALE

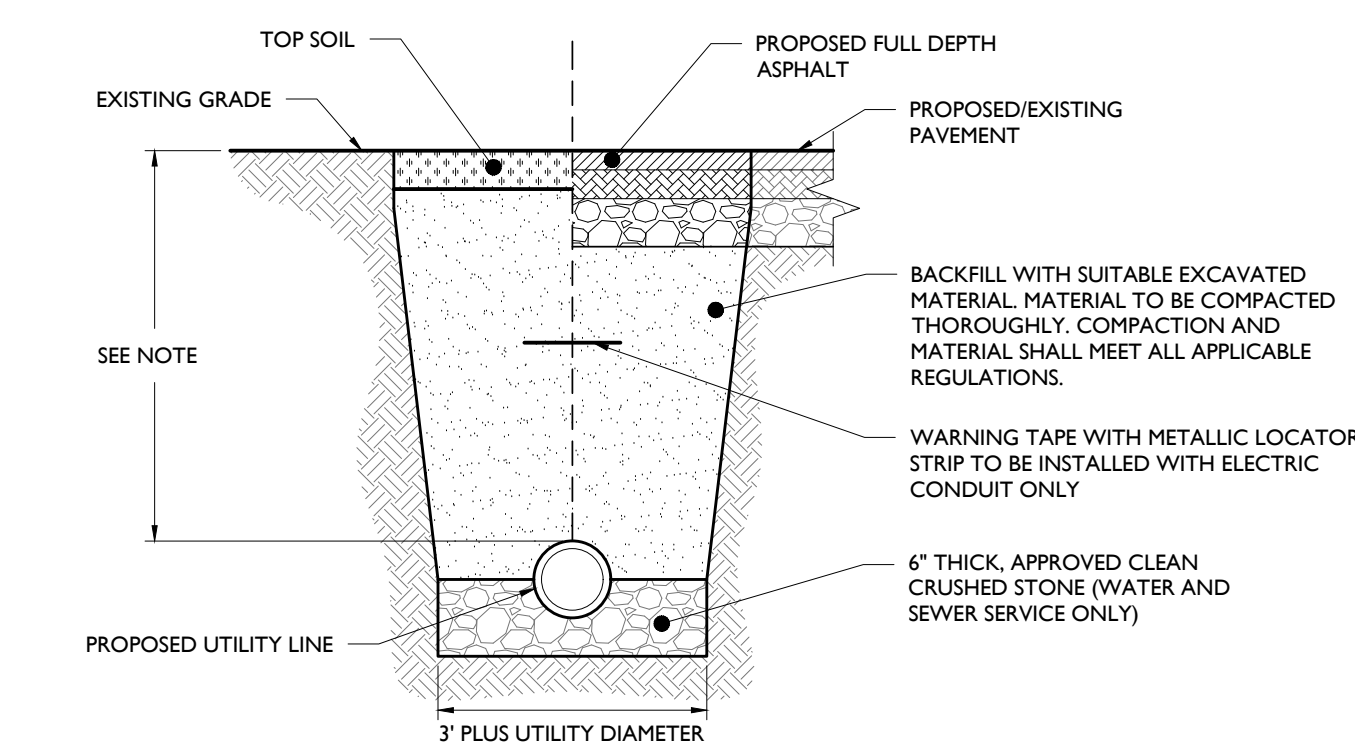


FIRE HYDRANT INSTALLATION



STORM TRENCH DETAIL

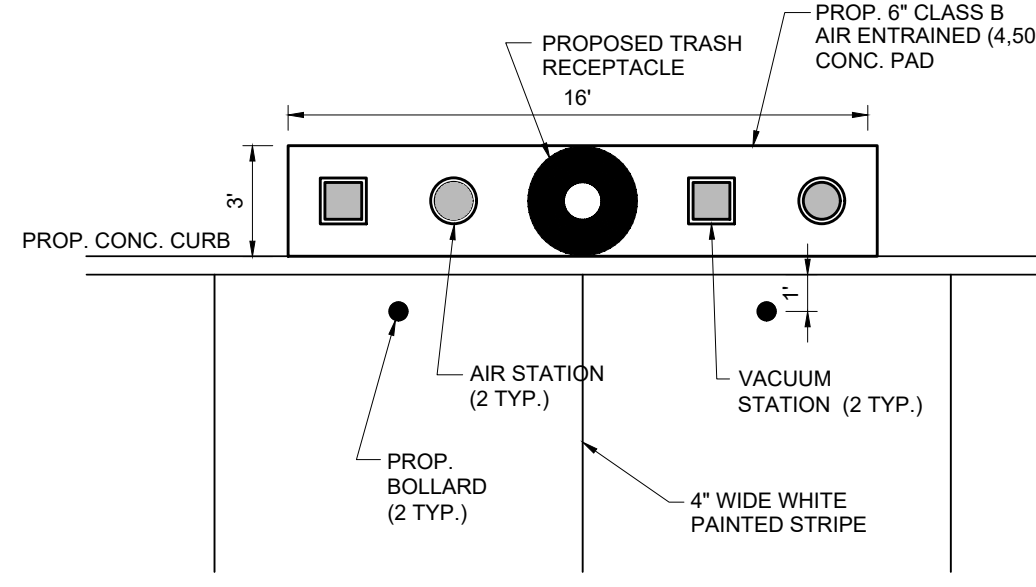
NOT TO SCALE



UTILITY TRENCH DETAIL

NOT TO SCALE

- NOTE:
- MINIMUM PIPE COVER SHALL BE AS FOLLOW:
 - ELECTRIC SERVICE - PER APPLICABLE UTILITY AUTHORITY
 - GAS SERVICE - PER APPLICABLE UTILITY AUTHORITY
 - SEWER SERVICE - 36" MINIMUM
 - WATER SERVICE - 48" MINIMUM



AIR/VACUUM STATION DETAIL

NOT TO SCALE

NOTE:
ALL CONCRETE CURB, SIDEWALK, AND APRON DETAILS MUST MEET THE SPECIFICATIONS OF NJDOT CLASS B CONCRETE.

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STATE OF NEW JERSEY
JEFFREY A. MARTEL, P.E.
NEW JERSEY LICENSE NO. 47390
LICENSED PROFESSIONAL ENGINEER

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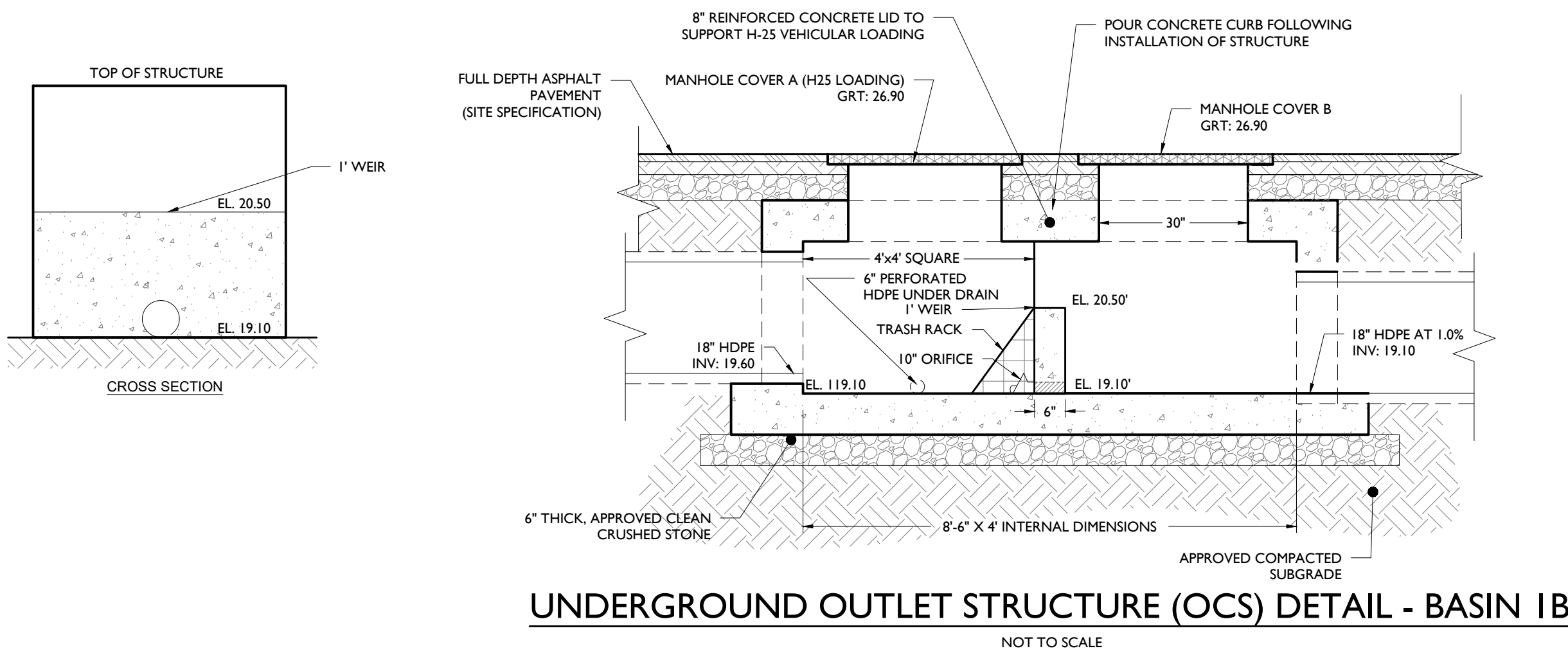
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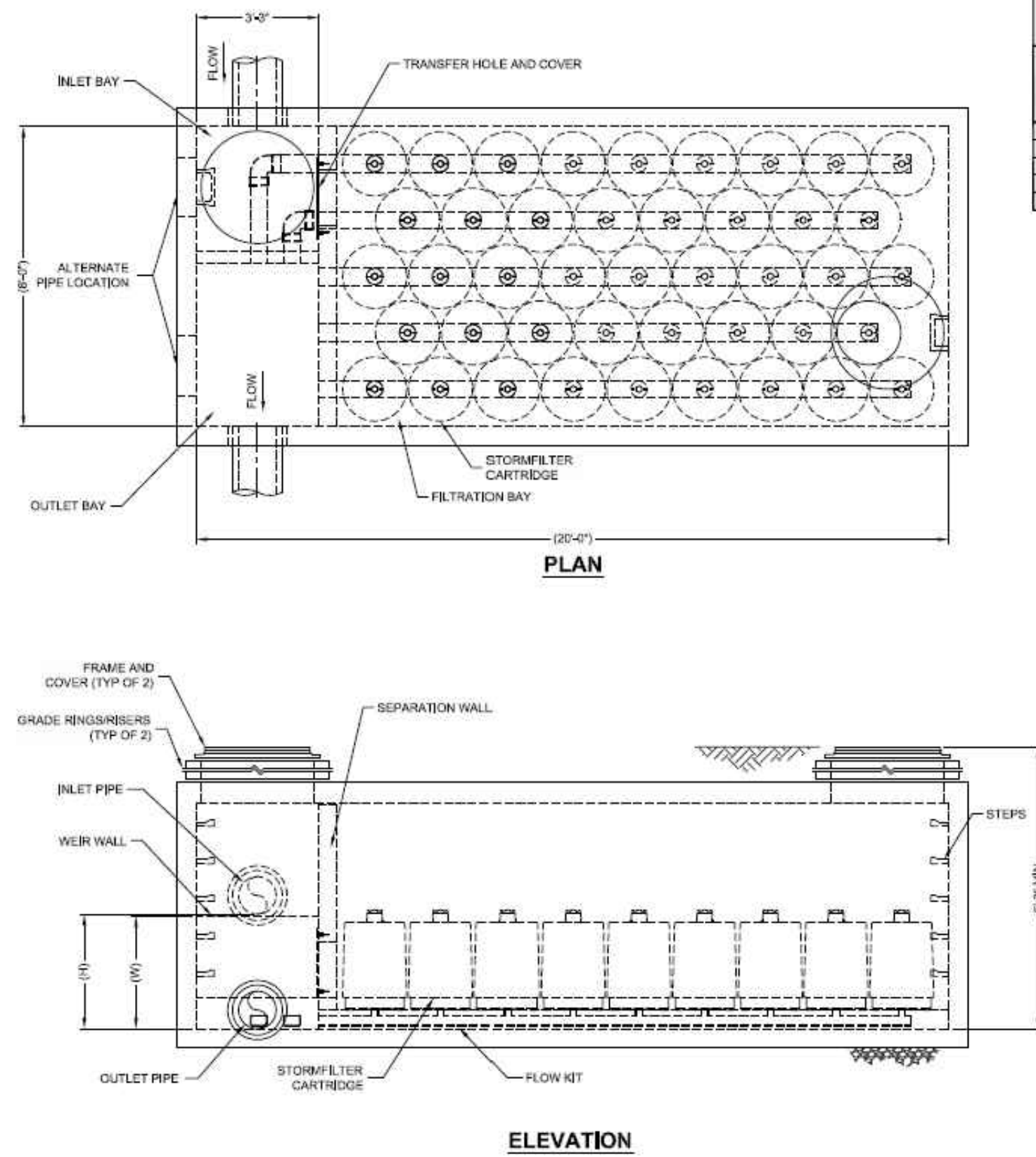
**CONSTRUCTION
DETAILS**

DRAWING:

C-15



UNDERGROUND OUTLET STRUCTURE (OCS) DETAIL - BASIN 1B
NOT TO SCALE



UNDERGROUND BASIN 1B MTD SPECIFICATIONS
NOT TO SCALE

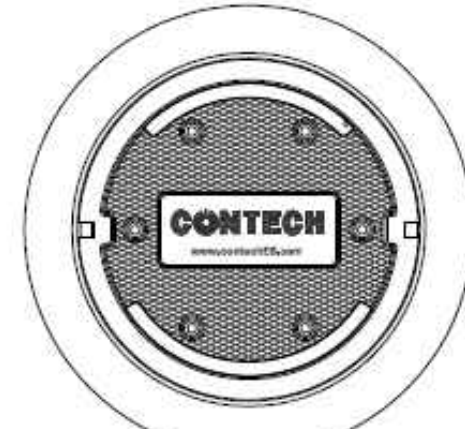
NOTE:
- MINIMUM COVER IS 18 INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT
- 12 INCH STONE PERIMETER TYPICAL
- ENTIRE STORAGE ENVELOPE TO BE WRAPPED IMPERMEABLE LINER (NOT PROVIDED BY CONTECH)
- UNDERDRAIN NOT PROVIDED BY CONTECH

ASSEMBLY
SCALE: 1\"/>

GENERAL NOTES:
1. ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
2. PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
3. CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
4. CHAMBERMAXX SYSTEM TO MEET AASHTO H20S22.5 LINE LOADING, PER AASHTO LRFD SECTION 12.
5. ACCESS COVER TO MEET AASHTO H20S22.5 LINE LOADING.
6. MINIMUM COVER IS 18 INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 18 INCHES CONTACT YOUR LOCAL REPRESENTATIVE.
7. ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
8. FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARDS DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
9. CHAMBERMAXX BY CONTECH ENGINEERED SOLUTIONS (P) (800) 925-8240

UNDERGROUND BASIN 1B SPECIFICATIONS
NOT TO SCALE

STORMFILTER DESIGN TABLE					
- THE 8' x 20' PEAK DIVERSION STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA - SPECIFIC FLOW RATE, PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD. - THE PEAK DIVERSION STORMFILTER IS AVAILABLE IN A LEFT INLET AND SHOWN OR RIGHT INLET CONFIGURATION. - ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.					
CARTRIDGE HEIGHT	27"	18"	LOW DROP		
SYSTEM HYDRAULIC DROP (H ₁ - REQ'D, MIN)	3.00'	2.5'	1.8'		
HEIGHT OF WEIR (H ₂)	3.00'	2.25'	1.75'		
TREATMENT BY MEDIA SURFACE AREA	2 gpm/ft ²	1 gpm/ft ²	2 gpm/ft ²	1 gpm/ft ²	2 gpm/ft ²
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5	10

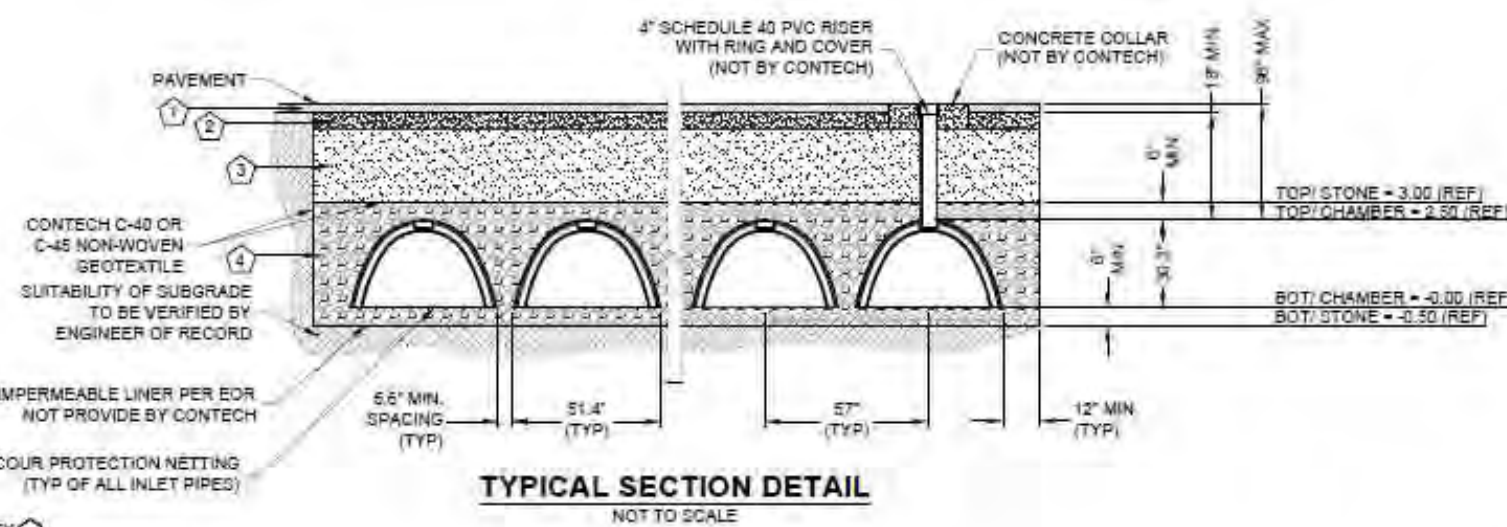


FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

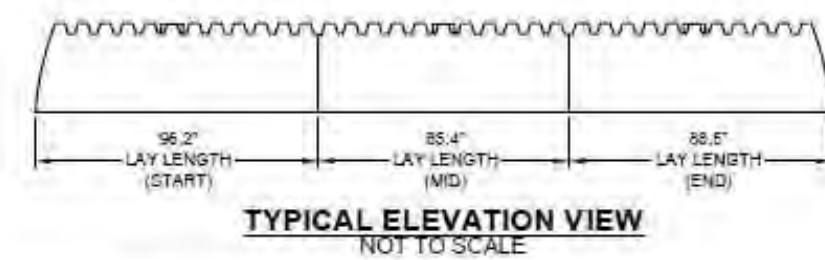
PERFORMANCE SPECIFICATION:
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 4 INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS.
SPECIFIED FLOW RATE SHALL BE 2 GPM/FT² (MAXIMUM). SPECIFIED FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SF). MEDIA VOLUMETRIC FLOW RATE SHALL BE 6 GPM/CF OF MEDIA (MAXIMUM).
GENERAL NOTES:
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.conteches.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE WEIGHTS REQUIREMENTS OF PROJECT.
5. STRUCTURE SHALL MEET AASHTO H20-100 LOAD RATING, ASSUMING EARTH COVER OF 6' x 8' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CARTRIDGES SHALL MEET AASHTO M195 AND BE CAST WITH THE CONTECH LOGO.
INSTALLATION NOTES:
A. ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE LIFTING CUTOFFS PROVIDED.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
F. CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.



THE STORMWATER MANAGEMENT STORMFILTER
8' x 20' PEAK DIVERSION STORMFILTER
STANDARD DETAIL



EQUIPMENT USED TO PLACE AND COMPACT THE BACKFILL SHALL BE OF A SIZE AND TYPE SO AS NOT TO DISTORT, DAMAGE, OR DISPLACE THE CHAMBERS. ATTENTION MUST BE GIVEN TO PROVIDING ADEQUATE MINIMUM COVER FOR SUCH EQUIPMENT, AND MAINTAIN BALANCED LOADING ON ALL CHAMBERS IN THE SYSTEM, DURING ALL SUCH OPERATIONS. OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS. CONTACT YOUR LOCAL CONTECH REPRESENTATIVE FOR DETAILS.



CHAMBERMAXX DESIGN DETAILS			
FEATURE	START CHAMBER	MIDDLE CHAMBER	END CHAMBER
OVERALL CHAMBER HEIGHT - mm [IN]	775 [30.5]	775 [30.5]	775 [30.5]
OVERALL CHAMBER WIDTH - mm [IN]	1306 [51.4]	1306 [51.4]	1306 [51.4]
ACTUAL LENGTH - mm [IN]	2300 [90.5]	2311 [91.0]	2337 [92.0]
INSTALLED LAY LENGTHS - mm [IN]	2443 [96.2]	2169 [85.4]	2248 [88.5]
CHAMBER STORAGE VOLUME - m ³ [CF]	1.421 [50.2]	1.335 [47.2]	1.307 [46.2]
CHAMBER STORAGE PER LINEAR FOOT - m ³ /ft [CF/ft]	0.592 [6.3]	0.619 [6.6]	0.592 [6.3]
MIN. INSTALLED CHAMBER VOLUME - m ³ [CF]	3.211 [75.1]	2.127 [75.1]	3.098 [74.1]
MIN. INSTALLED CHAMBER VOLUME PER LINEAR FOOT - m ³ /ft [CF/ft]	0.902 [9.7]	0.961 [10.6]	0.934 [10.0]
CHAMBER WEIGHT - kg [LB]	37.65 [83]	33.11 [73]	34.47 [75]
*152 mm [6"] OF STONE ABOVE AND BELOW CHAMBER, 142 mm [5.6"] CHAMBER SPACING AND 40% POROSITY			

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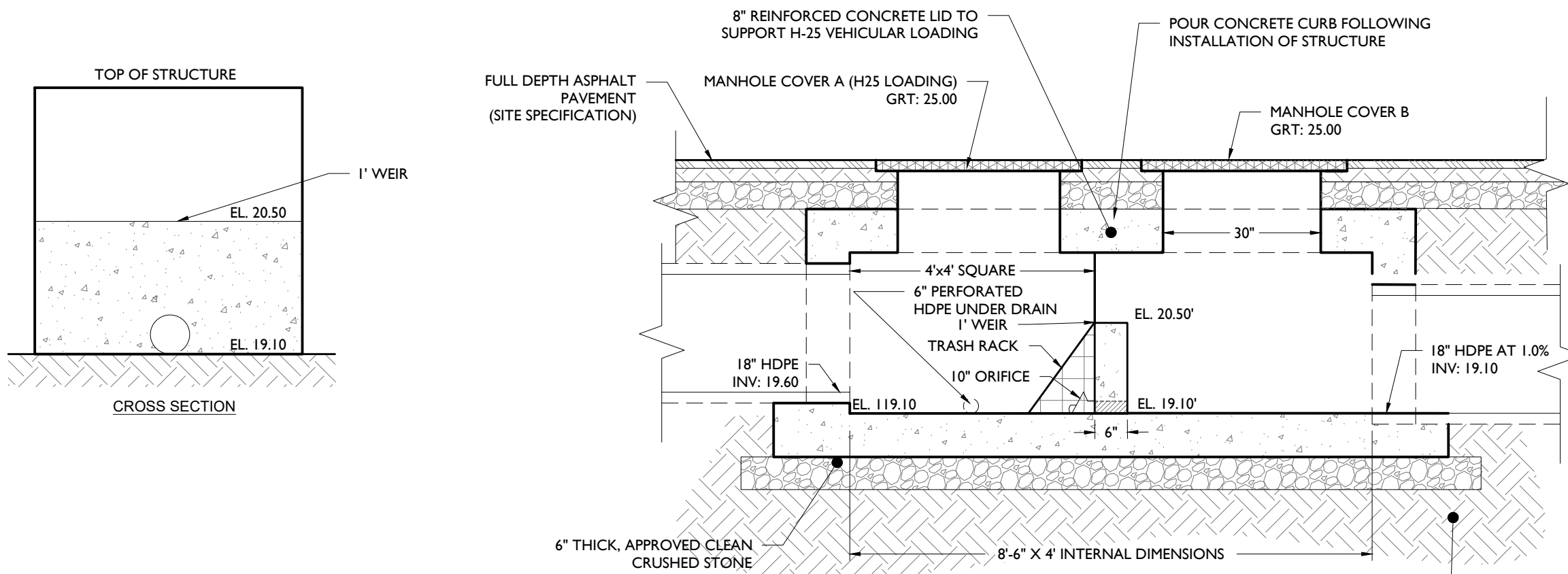
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TITLE:

CONSTRUCTION
DETAILS

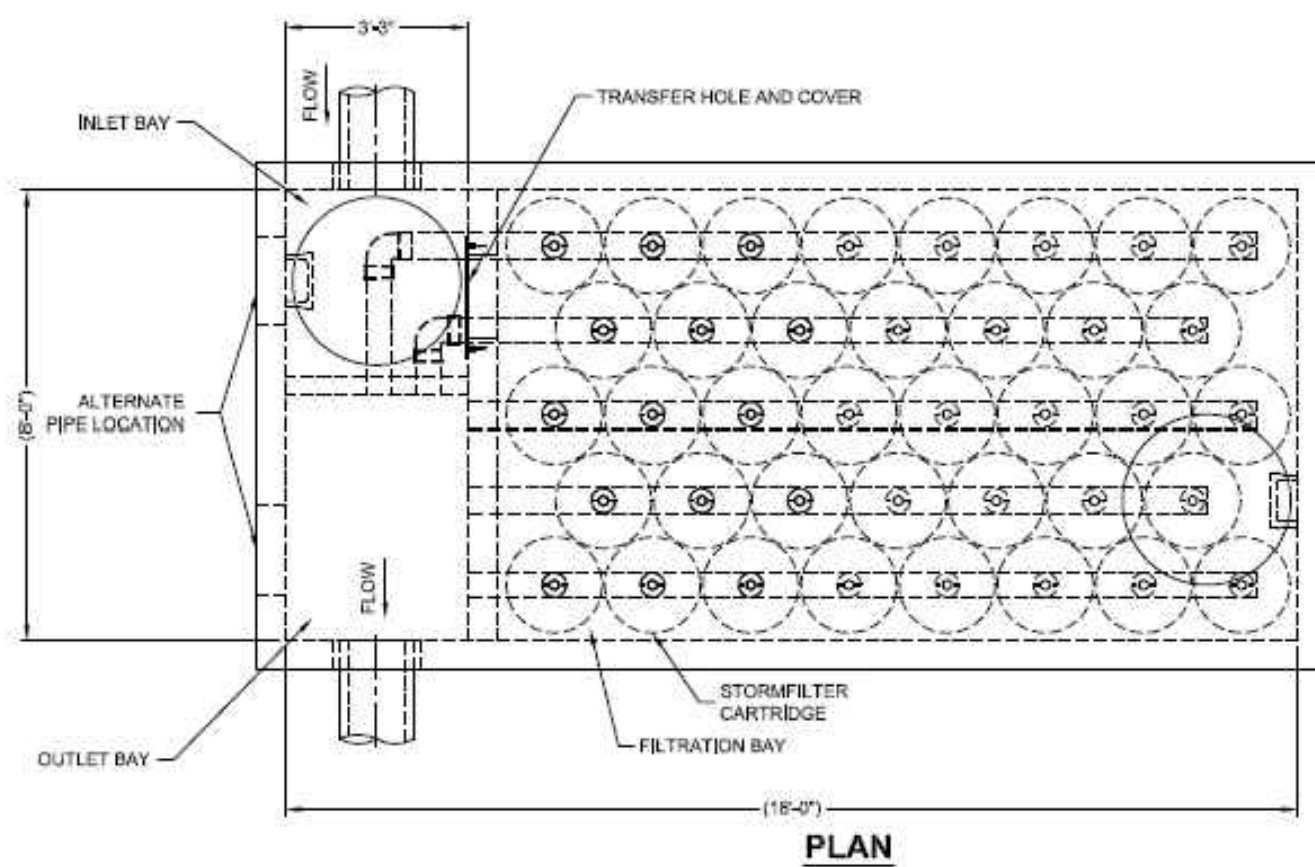
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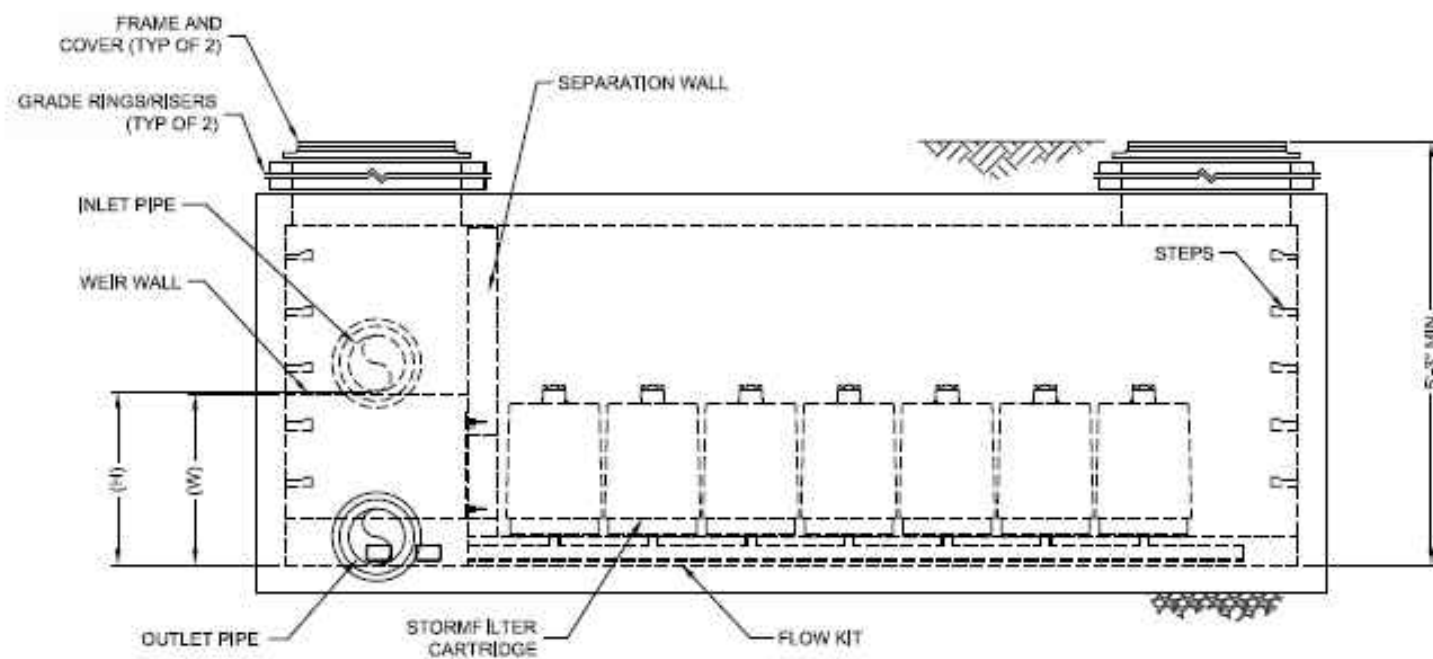


UNDERGROUND OUTLET STRUCTURE (OCs) DETAIL - BASIN 1C

NOT TO SCALE



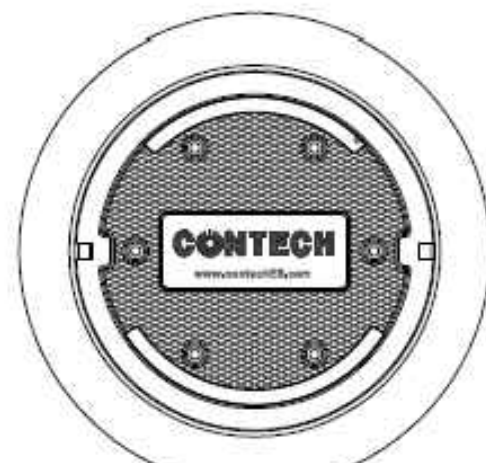
PLAN



ELEVATION



STORMFILTER DESIGN TABLE				
- THE 8' x 18' PEAK DIVERSION STORMFILTER TREATMENT CAPACITY VARIES BY CARTRIDGE COUNT AND LOCALLY APPROVED SURFACE AREA. - SPECIFIC FLOW RATE, PEAK CONVEYANCE CAPACITY TO BE DETERMINED BY ENGINEER OF RECORD. - THE PEAK DIVERSION STORMFILTER IS AVAILABLE IN A LEFT INLET (AS SHOWN) OR RIGHT INLET CONFIGURATION. - ALL PARTS AND INTERNAL ASSEMBLY PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.				
CARTRIDGE HEIGHT	27"	18"	LOW DROP	
SYSTEM HYDRAULIC DROP (H - REQ'D MIN.)	3.00'	2.3'	1.8'	1.8'
HEIGHT OF WEIR (W)	3.00'	2.25'	1.75'	1.75'
TREATMENT BY MEDIA SURFACE AREA	2 gpm/sq ft	1 gpm/sq ft	2 gpm/sq ft	1 gpm/sq ft
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	15	7.5



FRAME AND COVER

(DIAMETER VARIES)
N.T.S.

PERFORMANCE SPECIFICATION:
FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON-ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7 INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS. SPECIFIC FLOW RATE SHALL BE 2 GPM/SQ FT (MAXIMUM). SPECIFIC FLOW RATE IS THE MEASURE OF THE FLOW (GPM) DIVIDED BY THE MEDIA SURFACE CONTACT AREA (SQ FT). MEDIA VOLUMETRIC FLOW RATE SHALL BE 4 GPM/GAL OF MEDIA (MAXIMUM).

- GENERAL NOTES:
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - DIMENSIONS MARKED WITH (1) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.conteches.com
 - STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - STRUCTURE SHALL MEET AASHTO #500 LOAD RATING, ASSUMING EARTH COVER OF 2'-4" AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M308 AND BE CAST WITH THE CONTECH LOGO.

- INSTALLATION NOTES:
- ANY SUBMERSE BACKFILL DEPTH AND/OR ANTI-LOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE. LIFTING CLUTCHES PROVIDED.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.
 - CONTRACTOR TO REMOVE THE TRANSFER HOLE COVER WHEN THE SYSTEM IS BROUGHT ONLINE.

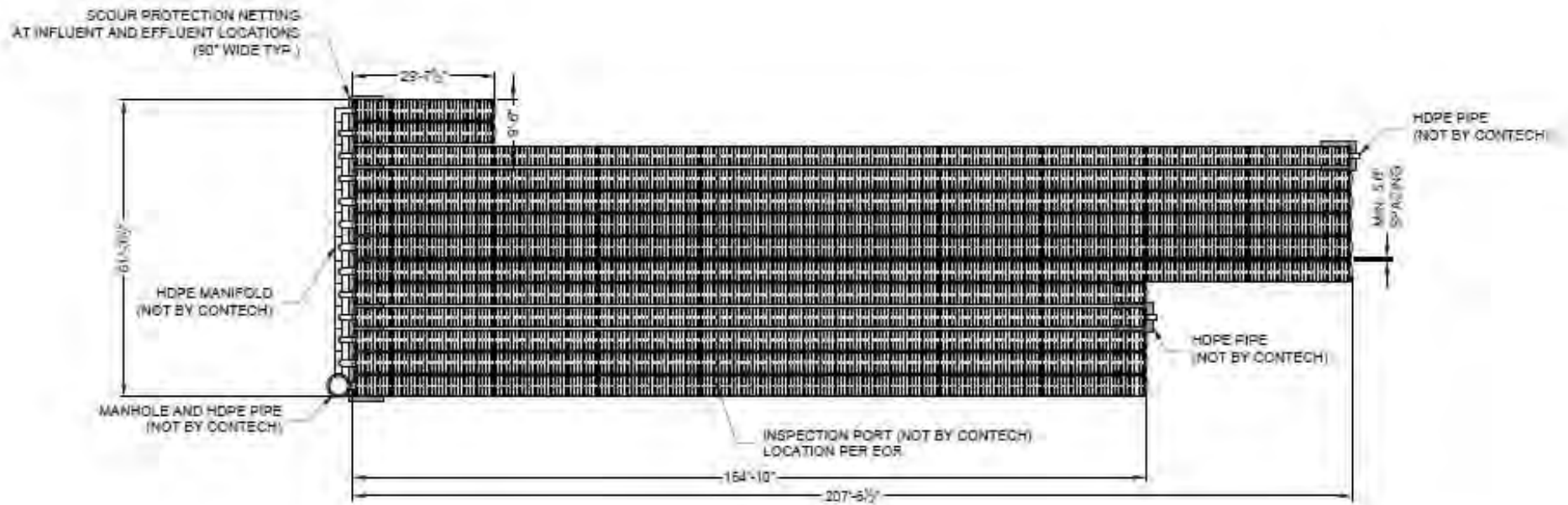


THE STORMWATER MANAGEMENT STORMFILTER
8' x 18' PEAK DIVERSION STORMFILTER
STANDARD DETAIL

UNDERGROUND BASIN 1C MTD SPECIFICATIONS

NOT TO SCALE

2



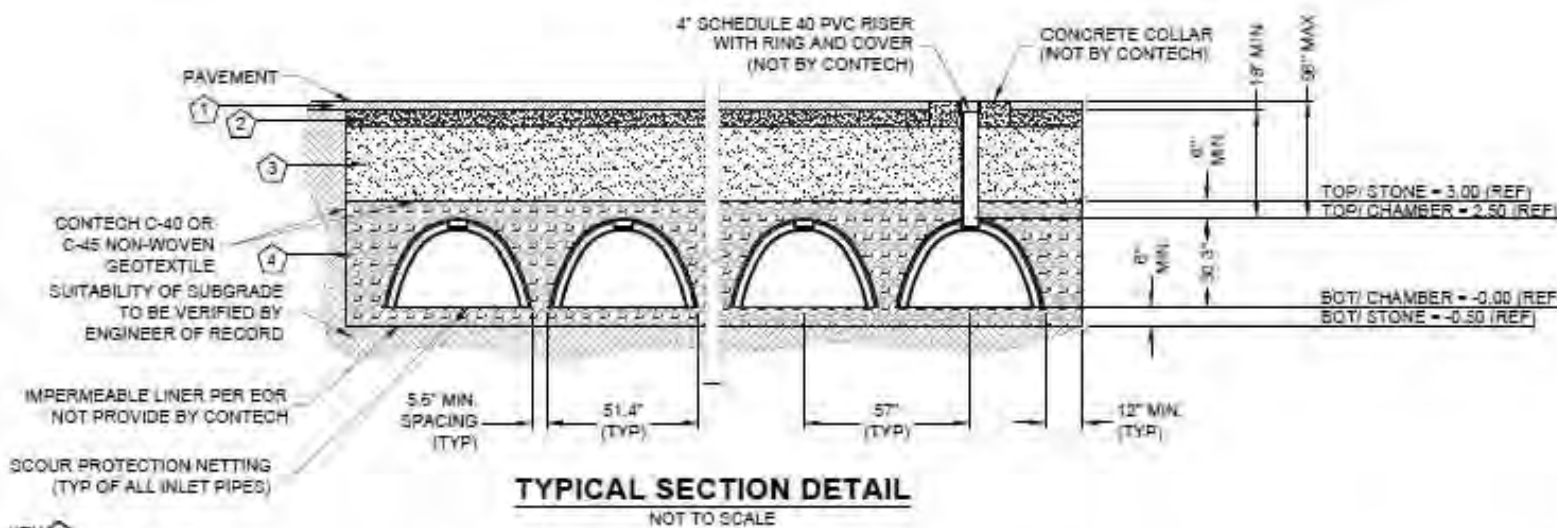
ASSEMBLY

SCALE: 1"=30'
CHAMBER STORAGE: 14,040 CF
STONE STORAGE: ~8,600 CF
TOTAL STORAGE: 22,640 CF

GENERAL NOTES

- ALL ELEVATIONS, DIMENSIONS AND LOCATIONS OF RISERS AND INLETS SHALL BE VERIFIED BY THE ENGINEER OF RECORD.
- PRIOR TO INSTALLATION OF THE CHAMBERMAXX SYSTEM A PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED. THOSE REQUIRED TO ATTEND ARE THE SUPPLIER OF THE SYSTEM, THE GENERAL CONTRACTOR, SUB-CONTRACTORS AND THE ENGINEER.
- CHAMBERMAXX CHAMBERS ARE MANUFACTURED FROM POLYPROPYLENE PLASTIC.
- CHAMBERMAXX SYSTEM TO MEET AASHTO H20/S20 LIVE LOADING, PER AASHTO LRFD SECTION 12.
- ACCESS COVERS TO MEET AASHTO H20/S20 LIVE LOADING.
- MINIMUM COVER IS 18 INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT. FOR COVER HEIGHTS GREATER THAN 18 INCHES CONTACT YOUR LOCAL REPRESENTATIVE.
- ALL PARTS PROVIDED BY CONTECH UNLESS OTHERWISE NOTED.
- FOR INFORMATION ON PRE-TREATMENT SYSTEMS, REFERENCE CONTECH PRE-TREATMENT SYSTEM STANDARD DETAILS OR CONTACT YOUR LOCAL REPRESENTATIVE.
- CHAMBERMAXX BY CONTECH ENGINEERING SOLUTIONS (352) 326-5542.

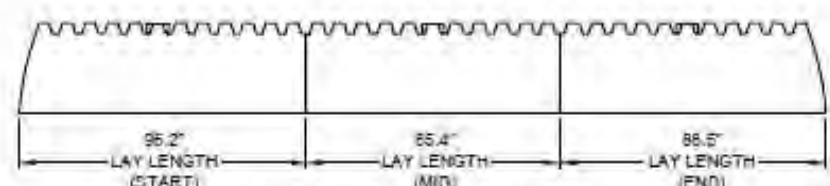
- NOTE:
- MINIMUM COVER IS 18 INCHES TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT
 - 12 INCH STONE PERIMETER TYPICAL
 - ENTIRE STORAGE ENVELOPE TO BE WRAPPED IMPERMEABLE LINER (NOT PROVIDED BY CONTECH)
 - UNDERDRAIN NOT PROVIDED BY CONTECH



TYPICAL SECTION DETAIL

NOT TO SCALE

- KEY:
- FLEXIBLE PAVEMENT.
 - GRAVELLY ROAD BASE.
 - ANY SUITABLE NATIVE OR GENERAL BACKFILL. SEE ENGINEER PLANS.
 - THE BACKFILL MATERIAL SHALL BE FREE-DRAINING ANGULAR WASHED STONE 3/4" - 2" PARTICLE SIZE. MATERIAL SHALL BE PLACED IN 8"-10" MAXIMUM LIFTS. MATERIAL SHALL BE WORKED INTO THE CHAMBER SPACING BY MEANS OF SHOVEL-SUCKING, RODDING, AIR-TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHOD. COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR OR UNDER FOOT, AND THE PROJECT ENGINEER OR THEIR REPRESENTATIVE IS SATISFIED WITH THE LEVEL OF COMPACTION. INADEQUATE COMPACTION CAN LEAD TO EXCESSIVE DEFLECTIONS WITHIN THE SYSTEM AND SETTLEMENT OF THE SOILS OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO-FOOT DIFFERENTIAL BETWEEN THE SIDES OF ANY CHAMBER IN THE SYSTEM AT ALL TIMES. DURING THE BACKFILL PROCESS, BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADINGS ON ANY PIPES IN THE SYSTEM.
- EQUIPMENT USED TO PLACE AND COMPACT THE BACKFILL SHALL BE OF A SIZE AND TYPE SO AS NOT TO DISTORT, DAMAGE, OR DISPLACE THE CHAMBERS. ATTENTION MUST BE GIVEN TO PROVIDING ADEQUATE MINIMUM COVER FOR SUCH EQUIPMENT, AND MAINTAIN BALANCED LOADING ON ALL CHAMBERS IN THE SYSTEM, DURING ALL SUCH OPERATIONS.
- OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE-SPECIFIC CONDITIONS. CONTACT YOUR LOCAL CONTECH REPRESENTATIVE FOR DETAILS.



TYPICAL ELEVATION VIEW

NOT TO SCALE

CHAMBERMAXX DESIGN DETAILS			
FEATURE	START CHAMBER	MIDDLE CHAMBER	END CHAMBER
OVERALL CHAMBER HEIGHT - mm [IN]	770 [30.3]	770 [30.3]	770 [30.3]
OVERALL CHAMBER WIDTH - mm [IN]	1306 [51.4]	1306 [51.4]	1306 [51.4]
ACTUAL LENGTH - mm [IN]	2600 [98.4]	2311 [91.0]	2337 [92.0]
INSTALLED LAY LENGTHS - mm [IN]	2443 [96.2]	2169 [85.4]	2245 [88.3]
CHAMBER STORAGE VOLUME - m ³ [CF]	1.421 [50.2]	1.336 [47.3]	1.307 [46.3]
CHAMBER STORAGE PER LINEAR FOOT - m ³ /ft [CF/ft]	0.682 [5.3]	0.616 [5.6]	0.588 [5.3]
MIN. INSTALLED CHAMBER VOLUME - m ³ [CF]	2.211 [78.1]	2.127 [75.1]	2.088 [74.1]
MIN. INSTALLED CHAMBER VOLUME PER LINEAR FOOT - m ³ /ft [CF/ft]	0.903 [5.7]	0.981 [10.6]	0.934 [10.0]
CHAMBER WEIGHT - kg [LB]	37.65 [83]	33.11 [73]	34.47 [75]

*162 mm [6.4] OF STONE ABOVE AND BELOW CHAMBER, 142 mm [5.6] CHAMBER SPACING AND 40% POROSITY

UNDERGROUND BASIN 1C SPECIFICATIONS

NOT TO SCALE

3

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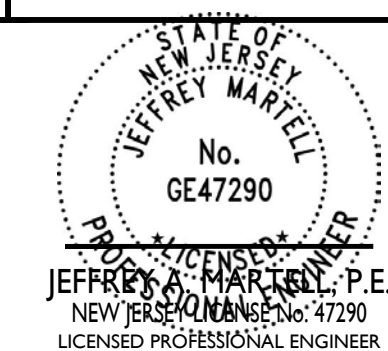
15 Spring Street, Princeton, NJ 08542
Phone 609.362.6900

PRELIMINARY & FINAL MAJOR SITE PLANS

M&M NEPTUNE, LLC

PROP IMPROVEMENTS

BLOCK 701, LOT 1 (TAX MAP SHEET 7)
704 N.J. ROUTE 35
TOWNSHIP OF NEPTUNE
MONMOUTH COUNTY, NEW JERSEY



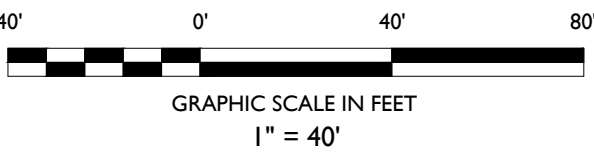
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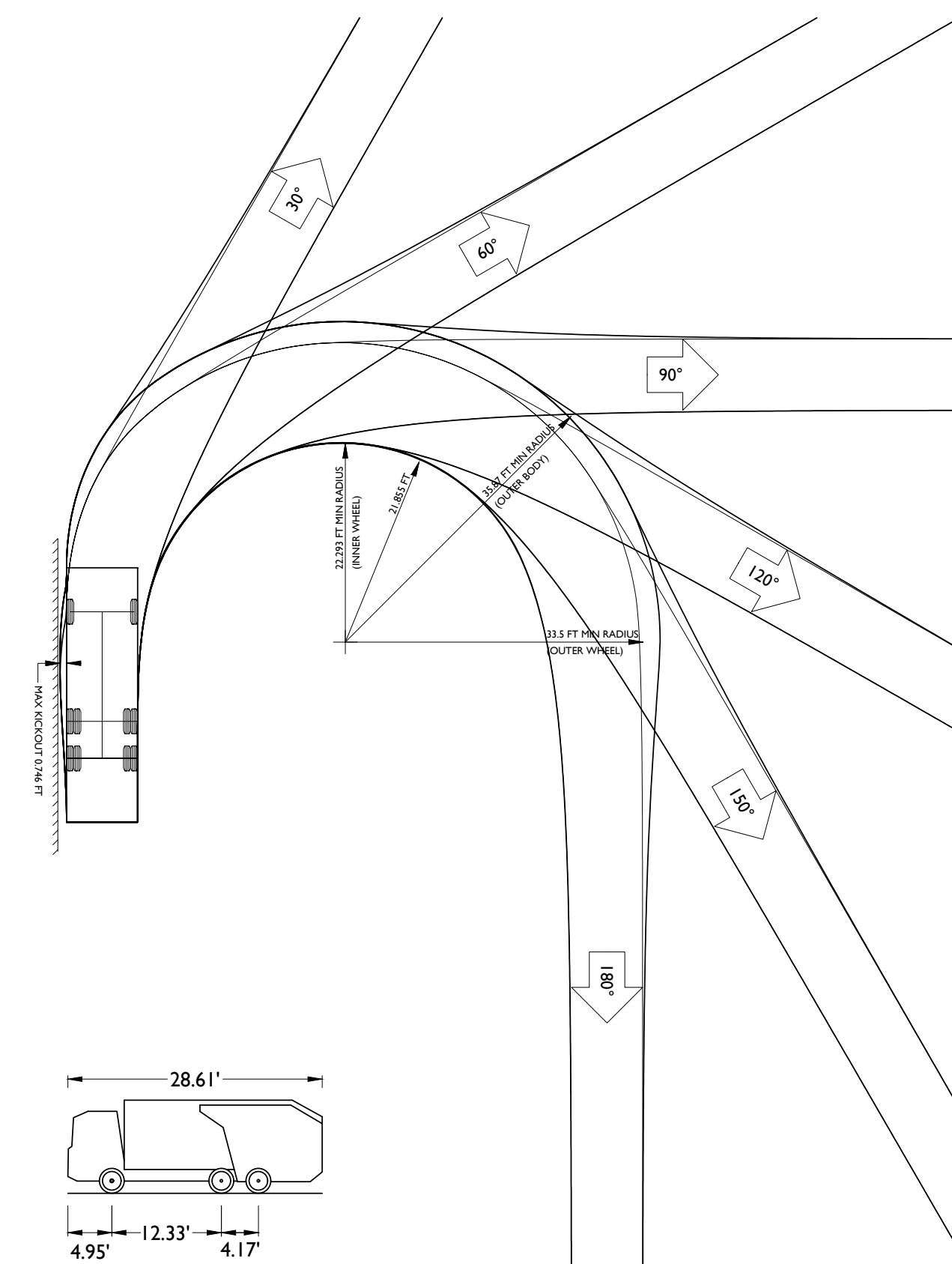
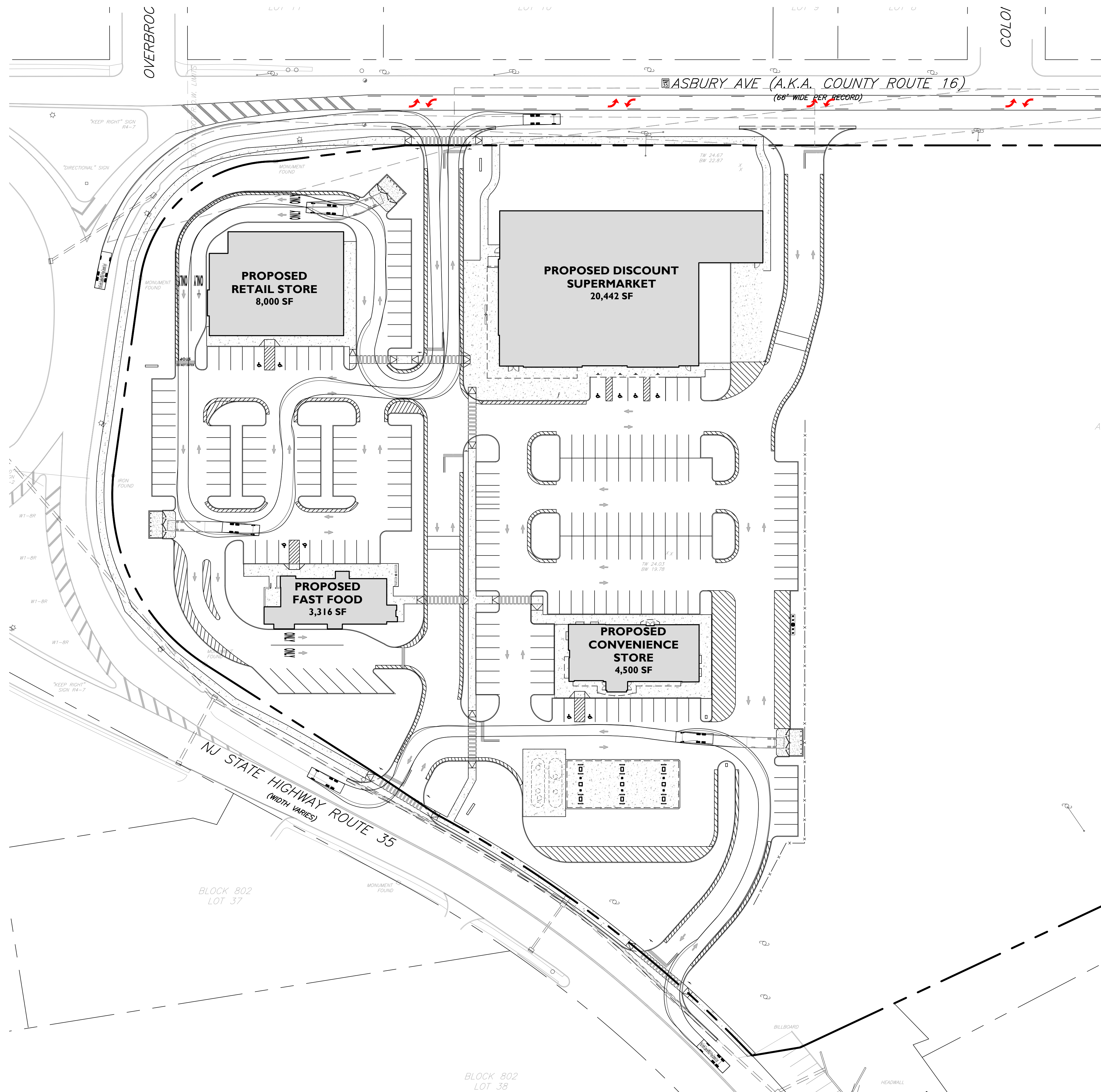
CONSTRUCTION
DETAILS

DRAWING:

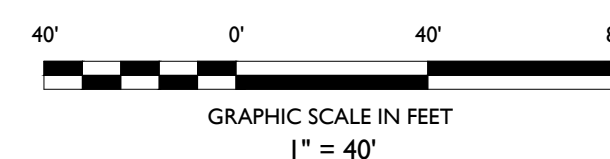
C-22



C-23



OVERALL LENGTH	28.613 FT
OVERALL WIDTH	8.000 FT
OVERALL BODY HEIGHT	10.48 FT
MIN BODY GROUND CLEARANCE	1.311 FT
TRACK WIDTH	8.000 FT
LOCK-TO-LOCK TIME	6.00 s
CURB TO CURB TURNING RADIUS	33.500 FT

[illegible]

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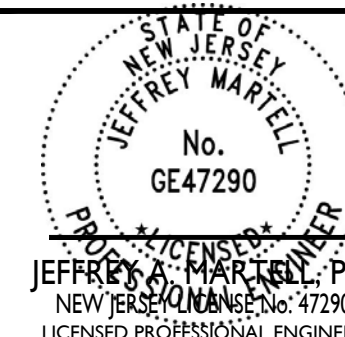
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TOWNSHIP OF NEPTUNE
MONMOUTH COUNTY NEW JERSEY



JEFFREY A. MARTELL, P.
NEW JERSEY LICENSE No. 4729
LICENSED PROFESSIONAL ENGINEER



STONEFIELD
engineering & design

SCALE: 1" = 40'	PROJECT ID: PRI-200142
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TITLE:

**VEHICULAR
CIRCULATION PLANS**

DRAWING:

C-25

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SCALE: 1" = 40'	PROJECT ID: PRI-200142
TITLE:	
VEHICULAR CIRCULATION PLANS	
DRAWING:	
C-27	

