

SITE PLAN FOR PARKING LOT EXPANSION 120 CONSTITUTION BLVD FRANKLIN, MA.

HOWARD STEIN HUDSON
114 Turnpike Road, Suite 2C
Chelmsford, MA 01824
www.hshassoc.com

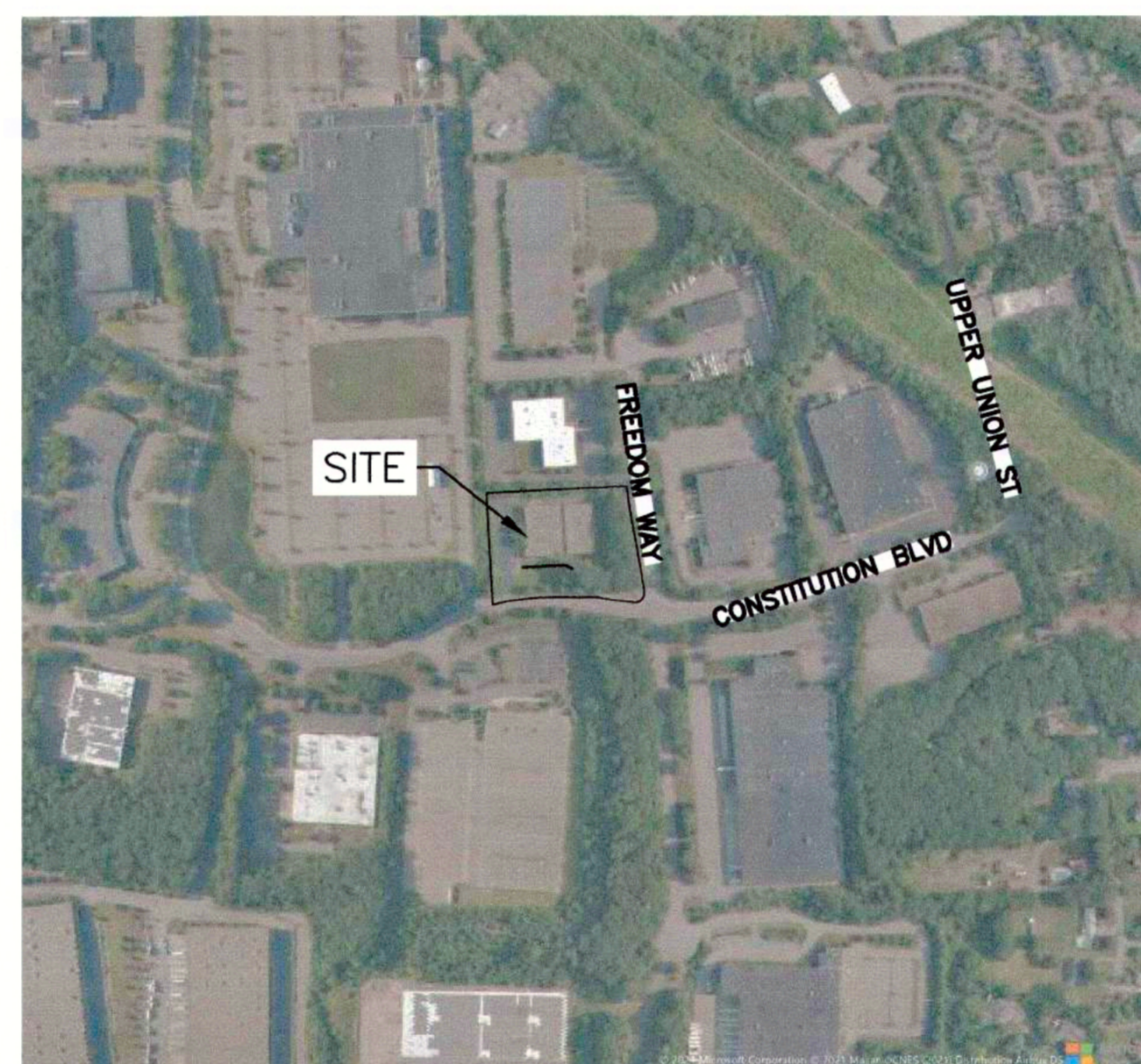
OWNER:
LRF2 BOS CONSTITUTION BLVD, LCC
50 TICE BOULEVARD - SUITE A28
WOODCLIFF LAKE, NJ 07677

APPLICANT:
ahp ARCHITECTS, INC.
THE OFFICES AT BOOT MILLS
116 JOHN STREET SUITE 115
LOWELL, MA 01852

**PARKING LOT EXPANSION
120 CONSTITUTION BLVD
FRANKLIN, MA, 02038**

GENERAL NOTES:

1. EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY WSP, INC DATED JULY 22, 2021
2. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
3. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
5. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
6. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED AND DISPOSED.
7. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.



**LOCUS MAP
1"=500'**

OWNER

LRF2 BOS CONSTITUTION BLVD, LLC
50 TICE BOULEVARD - SUITE A28
WOODCLIFF LAKE, NJ 07677

ASSESSORS INFORMATION

ASSESSORS MAP 319 LOT 16

REFERENCES

1. EXISTING CONDITIONS SURVEY BY WSP, LLC DATED JULY 22, 2021

ZONING REQUIREMENTS

INDUSTRIAL ZONE
THE BUILDING FOOTPRINT IS TO REMAIN UNCHANGED, THE SITE PLAN IS FOR THE CONSTRUCTION OF ADDITIONAL PARKING ON THE PARCEL.

SHEET INDEX

- SHEET C.1 TITLE SHEET
- SHEET C.2 DEMOLITION PLAN
- SHEET C.3 LAYOUT AND MATERIALS PLAN
- SHEET C.4 GRADING, DRAINAGE AND UTILITY SHEET
- SHEET C.5 LANDSCAPE PLAN
- SHEET C.6 LIGHTING PLAN
- SHEET C.7 DETAIL SHEET 1 OF 4
- SHEET C.8 DETAIL SHEET 2 OF 4
- SHEET C.9 DETAIL SHEET 3 OF 4
- SHEET C.10 DETAIL SHEET 4 OF 4

EXISTING CONDITIONS PLAN

LEGEND

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> ⊙ DRILL HOLE FOUND ⊙ IRON PIPE FOUND ⊙ ROUND CATCH BASIN ⊙ CULVERT ⊙ DRAIN MANHOLE ⊙ NO LABEL MANHOLE ⊙ SEWER MANHOLE ⊙ ELECTRIC METER ⊙ GAS METER ⊙ GAS VALVE ⊙ WATER GATE ⊙ FIRE HYDRANT ⊙ GUY WIRE ⊙ UTILITY POLE WITH RISER ⊙ UTILITY POLE ⊙ UTILITY POLE WITH LIGHT AND RISER ⊙ DECIDUOUS TREE ⊙ CONIFER TREE ⊙ SHRUB | <ul style="list-style-type: none"> — SIGN (SINGLE POSTED) — SIGN (DOUBLE POSTED) ○ POST ⊕ MONITORING WELL ⊕ BOLLARD ⊕ HANDICAP PARKING — WATER LINE MARKER ⊕ VENT BMK BENCHMARK BOMO BOLT OVER MAIN OUTLET EOP EDGE OF PAVEMENT BC BITUMINOUS CURB FFE FINISHED FLOOR ELEVATION SRW STONE RETAINING WALL CRW CONCRETE RETAINING WALL PVC POLYVINYL CHLORIDE INV. INVERT NPV NO PIPES VISIBLE | <ul style="list-style-type: none"> — ABUTTERS LOT LINE — PROPERTY LINE — EASEMENT — CHAIN LINK FENCE — METAL FENCE — STONE WALL — TREE LINE — INTERMEDIATE CONTOURS — INDEX CONTOURS — SEWER LINE — DRAIN LINE — WATER LINE — GAS LINE — OVERHEAD WIRES — RECORD WATER LINE — RECORD UNDERGROUND ELECTRIC |
|--|--|---|

PROJECT TEAM:

OWNER
LRF2 BOS CONSTITUTION BLVD, LLC
50 TICE BOULEVARD - SUITE A28
WOODCLIFF LAKE, NJ 07677

APPLICANT
ahp ARCHITECTS, INC
THE OFFICES AT BOOT MILLS
116 JOHN STREET SUITE 115
LOWELL, MA 01852

SURVEYOR
WSP USA, INC
9 EXECUTIVE PARK DRIVE
SUITE 101
MERRIMACK, NH 03054

WETLAND SCIENTIST
WILLIAMS AND SPARAGES
189 NORTH MAIN STREET
MIDDLETON, MA 01949

PARKING REQUIREMENTS

INDUSTRIAL ESTABLISHMENT
1 SPACE PER 400 SF GROSS FLOOR AREA
GROSS FLOOR AREA = 29,886 SF X 1 SP/400 SF = 75 SPACES REQUIRED
EXISTING SPACES = 23 SPACES
PROPOSED SPACES CONSTRUCTION/RESTRIPING = 50 SPACES *SEE WAIVER 1

SITE PLAN WAIVERS REQUIRED

1. PER ARTICLE V SPECIAL REGULATIONS, 185-21, B(3)(b)(i) INDUSTRIAL PARKING SCHEDULE REQUIREMENTS OF 1 SPACE PER 400 SQUARE FEET OF GROSS FLOOR AREA.

APPROVAL UNDER SITE PLAN REQUIRE BY FRANKLIN PLANNING BOARD

BEING A MAJORITY DATE: _____

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KL	2/1/22	REV. PARKING LAYOUT
2	KL	4/6/22	REV. PER BOARD & BETA



SITE PLAN

COVER SHEET

DATE: 08/20/21

PROJECT NUMBER: 21123

DESIGNED BY: KL

DRAWN BY: KL

CHECKED BY: KE

C1
SHEET 1 OF 10



HOWARD STEIN HUDSON
 11 Beacon Street, Suite 1010
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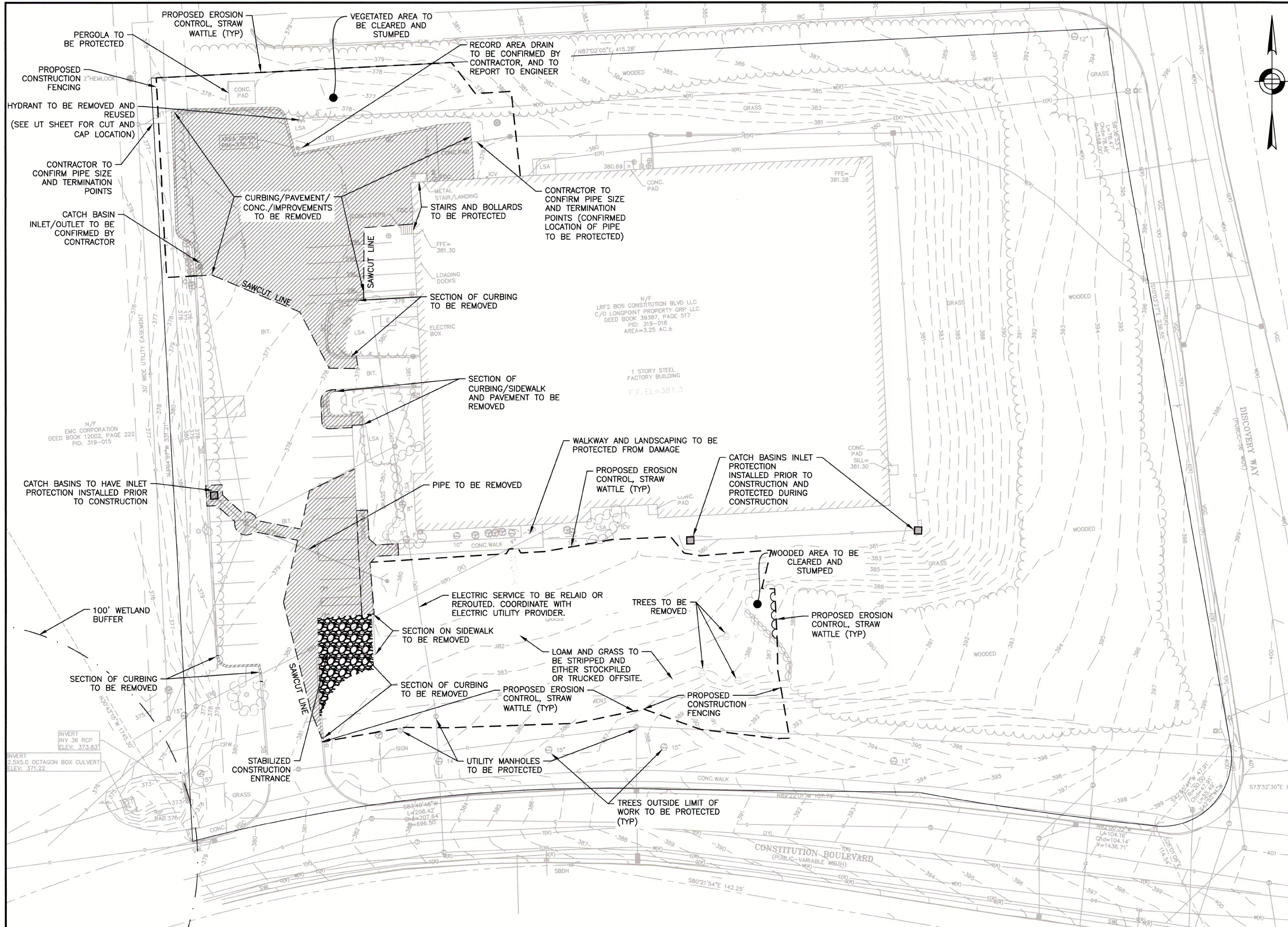
SITE PLAN

DEMOLITION PLAN

DATE: 08/20/21
 PROJECT NUMBER: 21123
 DESIGNED BY: KL
 DRAWN BY: KL
 CHECKED BY: KE

C2

SHEET 2 OF 10



NOTES:
 1. ALL EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES TO BE PROTECTED.



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SITE PLAN

LAYOUT & MATERIALS PLAN

DATE: 08/20/21

PROJECT NUMBER: 21123

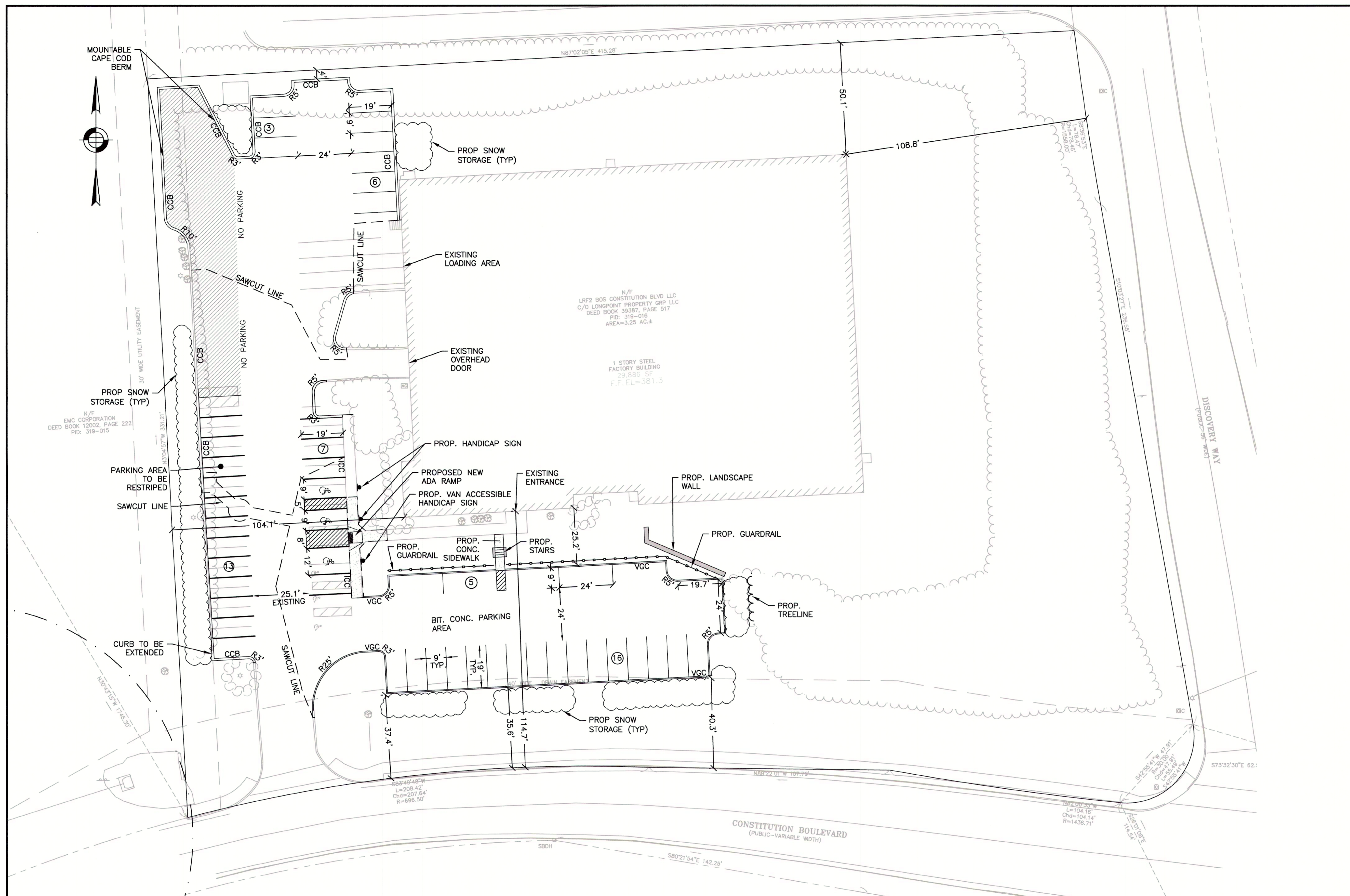
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DRAWN BY: KL

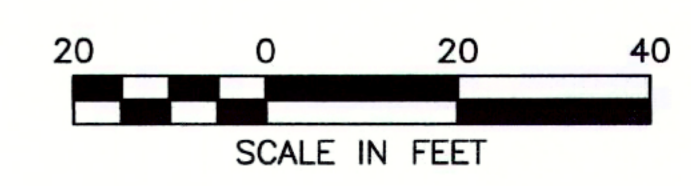
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C3

SHEET 3 OF 10



NOTE:
SNOW STORAGE AREAS SHALL NOT EXCEED 4' IN HEIGHT. FOR LARGER STORMS ALL EXCESS SNOW SHALL BE REMOVED OFF SITE.



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Last Saved by: M.BAKER
Printed by: Matthew Baker

SOIL EVALUATION TEST PITS
 AUGUST 13, 2021
 PERFORMED BY DAN HAZEN, SOIL EVALUATOR

DH-1 (EL. 382.0±)
 0"-6" - LOAM
 6"-24" - FILL
 24"-36" - A SANDY LOAM
 36"-42" - G.LAY SANDY LOAM
 42"-84" - C SANDY LOAM

MOTTLING @ 44"
 ESHGW = 378.33

DH-2 (EL. 382.5±)
 0"-18" - FILL
 18"-24" - A SANDY LOAM
 24"-27" - G.LAY FINE SANDY LOAM
 27"-84" - C SANDY LOAM

MOTTLING @ 45"
 ESHGW = 378.75

DH-3 (EL. 382.8±)
 0"-18" - FILL
 18" - REFUSAL-STUMP

DH-4 (EL. 384.0±)
 0"-48" - FILL
 48"-54" - A SANDY LOAM
 54"-60" - B SANDY LOAM
 60"-84" - C FINE SANDY LOAM

MOTTLING @ 66"
 ESHGW = 378.5

ASSUMED 24" RCP FROM CATCH BASIN BEHIND BUILDING. TO BE CONFIRMED PRIOR TO CONSTRUCTION

RECORD PIPE TO BE CONFIRMED. TERMINATION POINT TO BE DETERMINED PRIOR TO CONSTRUCTION

PROPOSED CDS INLET UNIT 1 RIM = 375.29 INV.OUT = EXISTING OUTLET TO BE CONFIRMED PRIOR TO CONSTRUCTION

CDS INLET UNIT 2 RIM = 377.18 INV.OUT = EXISTING OUTLET

REPLACE 12" RCP L=14', S=0.02

REPLACE WITH 6" DMH RIM = 377.91 INV.DMH6 = 374.00 INV.12"RCP = 373.41 INV.CDS2 = 372.91 INV.CDS1 = 366.81 INV.OUT = 365.31

EX 12" RCP

INVERT 2.5X5.0 OCTAGON BOX CULVERT ELEV. 371.22

RECORD SEWER SERVICE TO BE CONFIRMED AND RELOCATED AROUND DRAINAGE AS NECESSARY

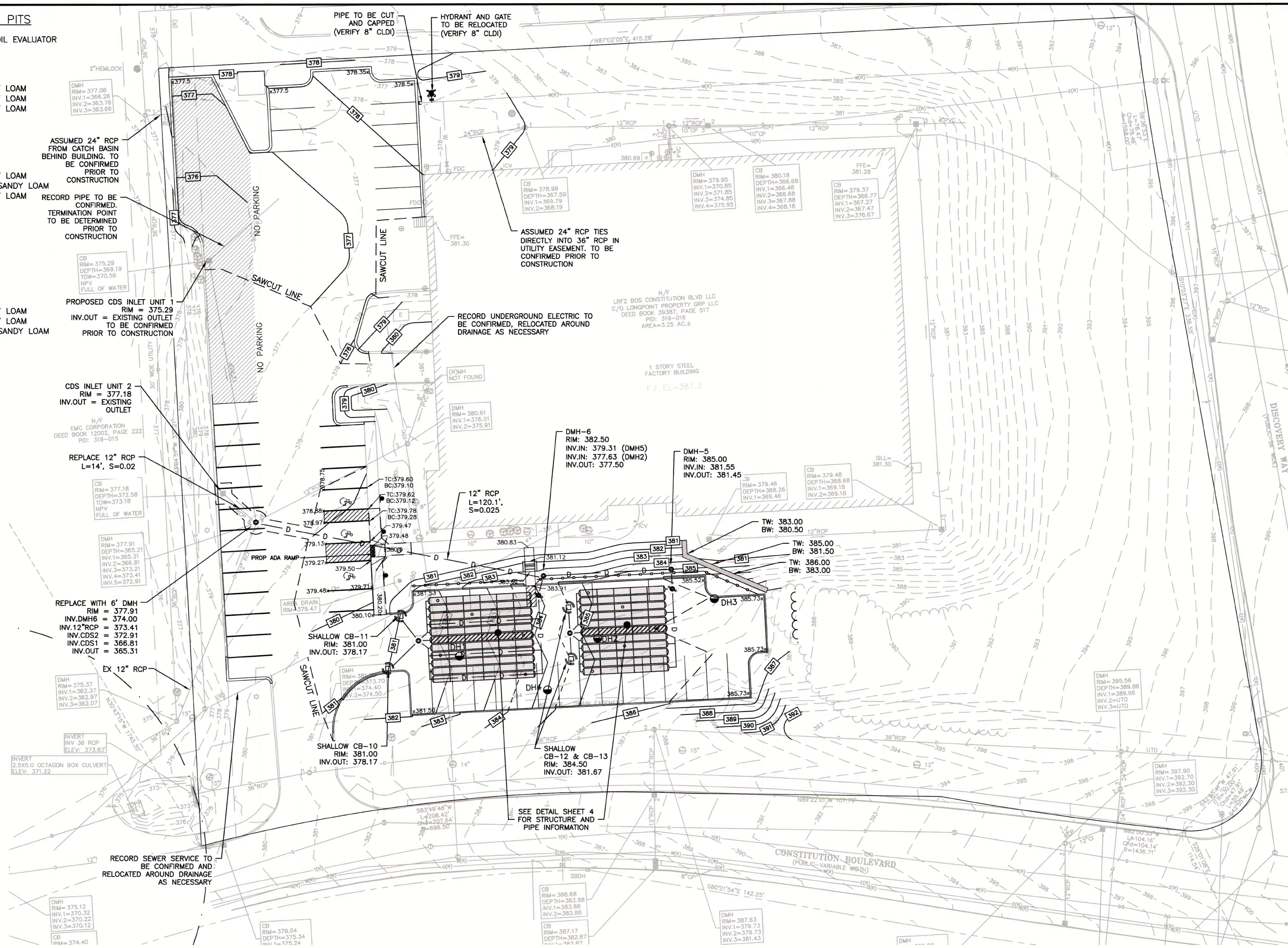
PIPE TO BE CUT AND CAPPED (VERIFY 8" CLDI)

HYDRANT AND GATE TO BE RELOCATED (VERIFY 8" CLDI)

ASSUMED 24" RCP TIES DIRECTLY INTO 36" RCP IN UTILITY EASEMENT. TO BE CONFIRMED PRIOR TO CONSTRUCTION

RECORD UNDERGROUND ELECTRIC TO BE CONFIRMED, RELOCATED AROUND DRAINAGE AS NECESSARY

SEE DETAIL SHEET 4 FOR STRUCTURE AND PIPE INFORMATION



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2	KL	4/6/22	REV. PER BOARD & BETA



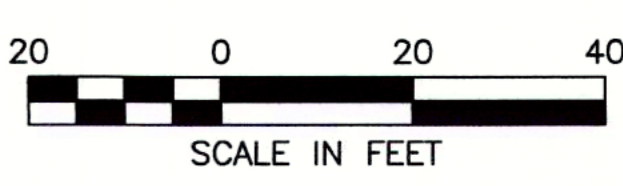
SITE PLAN

GRADING, DRAINAGE & UTILITY

DATE:	08/20/21
PROJECT NUMBER:	21123
DESIGNED BY:	KL
DRAWN BY:	KL
CHECKED BY:	KE

C4

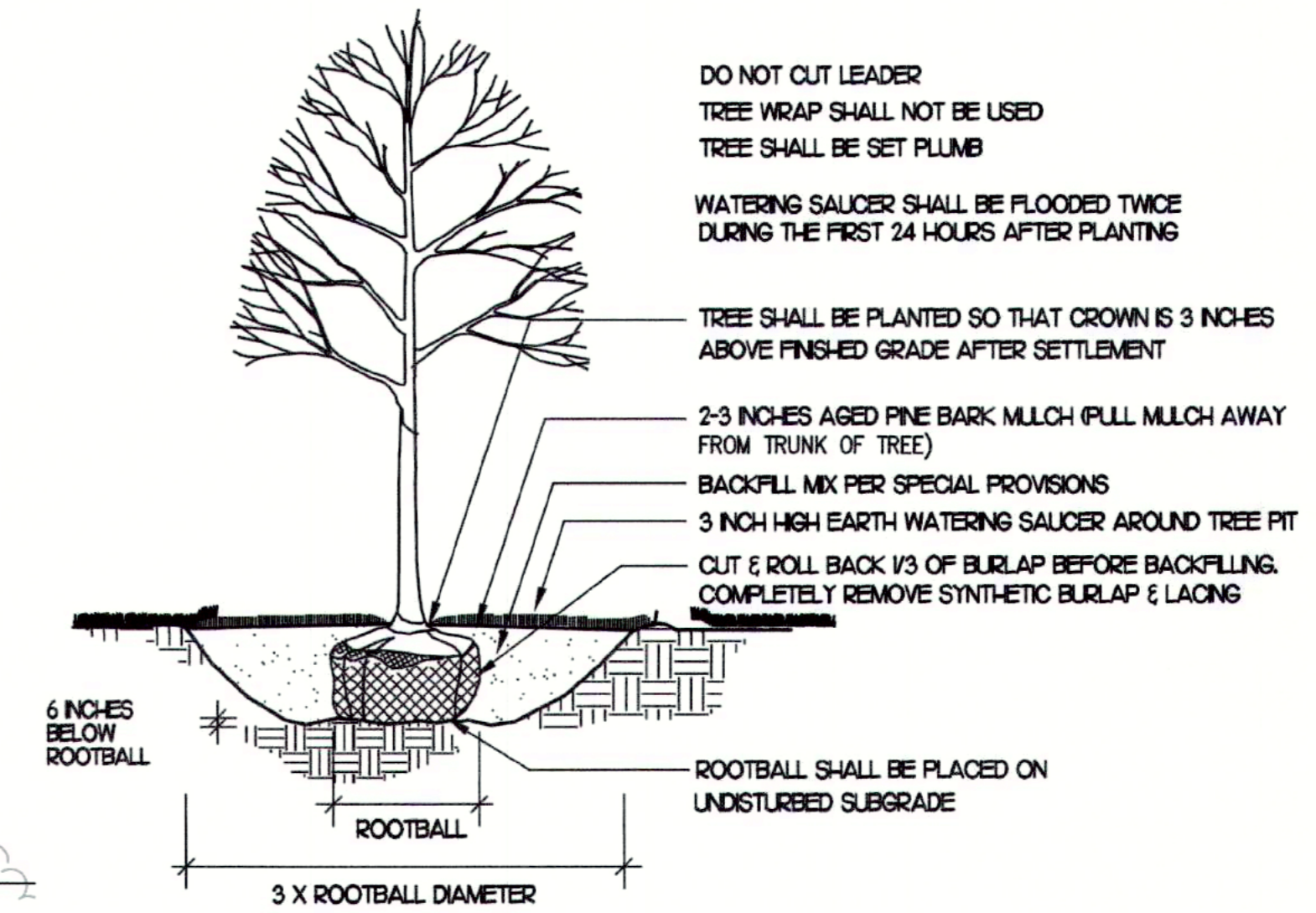
SHEET 4 OF 10



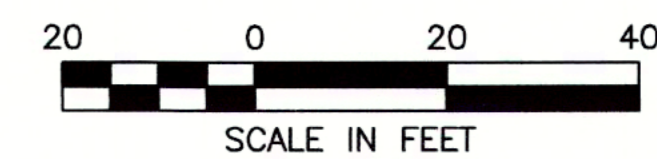
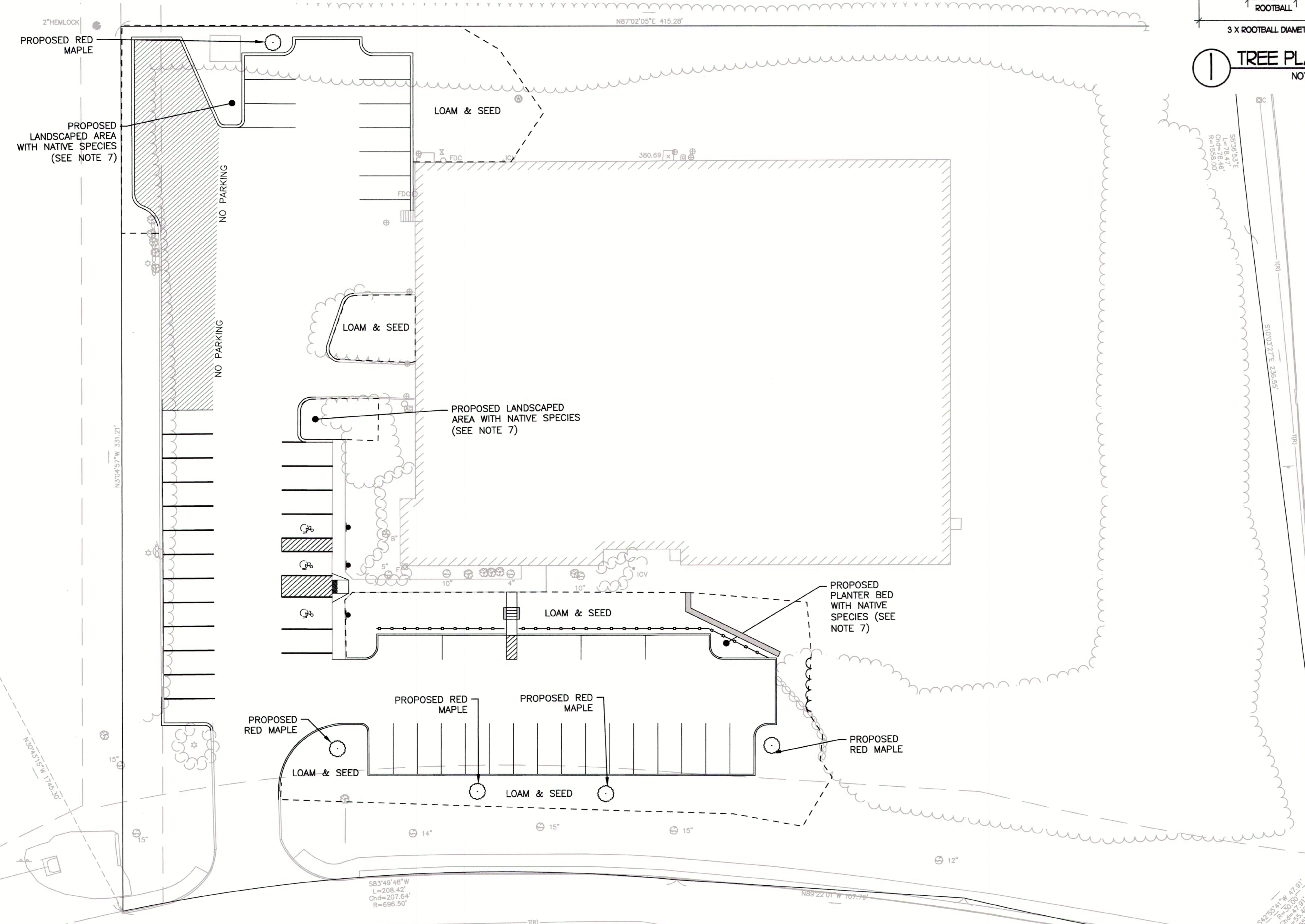
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 Printed by: Matthew Baker

NOTES:

1. ALL PROPOSED TREES SHALL BE AT LEAST 4" IN CALIPER.
2. PLANTER BEDS SHALL BE PLANTED WITH SHREDDED PINE BARK MULCH.
3. PLANTER BEDS SHALL BE EXCAVATED TO A DEPTH OF 8" BELOW FINISH GRADE, AND THE BOTTOM OF THE BED SHALL BE SCARIFIED, AND BACKFILLED WITH LOOSE, FRIABLE, ORGANIC LOAM OR COMPOST.
4. AREAS TO BE SEEDED SHALL BE BROUGHT TO AN ELEVATION OF 6" BELOW THE PROPOSED FINISHED GRADE.
5. SEED SHALL BE BROADCAST EVENLY AND WORKED INTO THE TOP 1" OF SOIL.
6. THE RECOMMENDED PLANTING AND SEEDING DATES ARE BETWEEN MARCH 15-JUNE 15 AND SEPTEMBER 15-NOVEMBER 15.
7. NATIVE PLANTS SHALL BE CHOSEN FROM THE "TOWN OF FRANKLIN BEST DEVELOPMENT PRACTICES GUIDEBOOK" LIST OF NATIVE SPECIES.
8. ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED.



1 TREE PLANTING DETAIL
NOT TO SCALE



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SITE PLAN

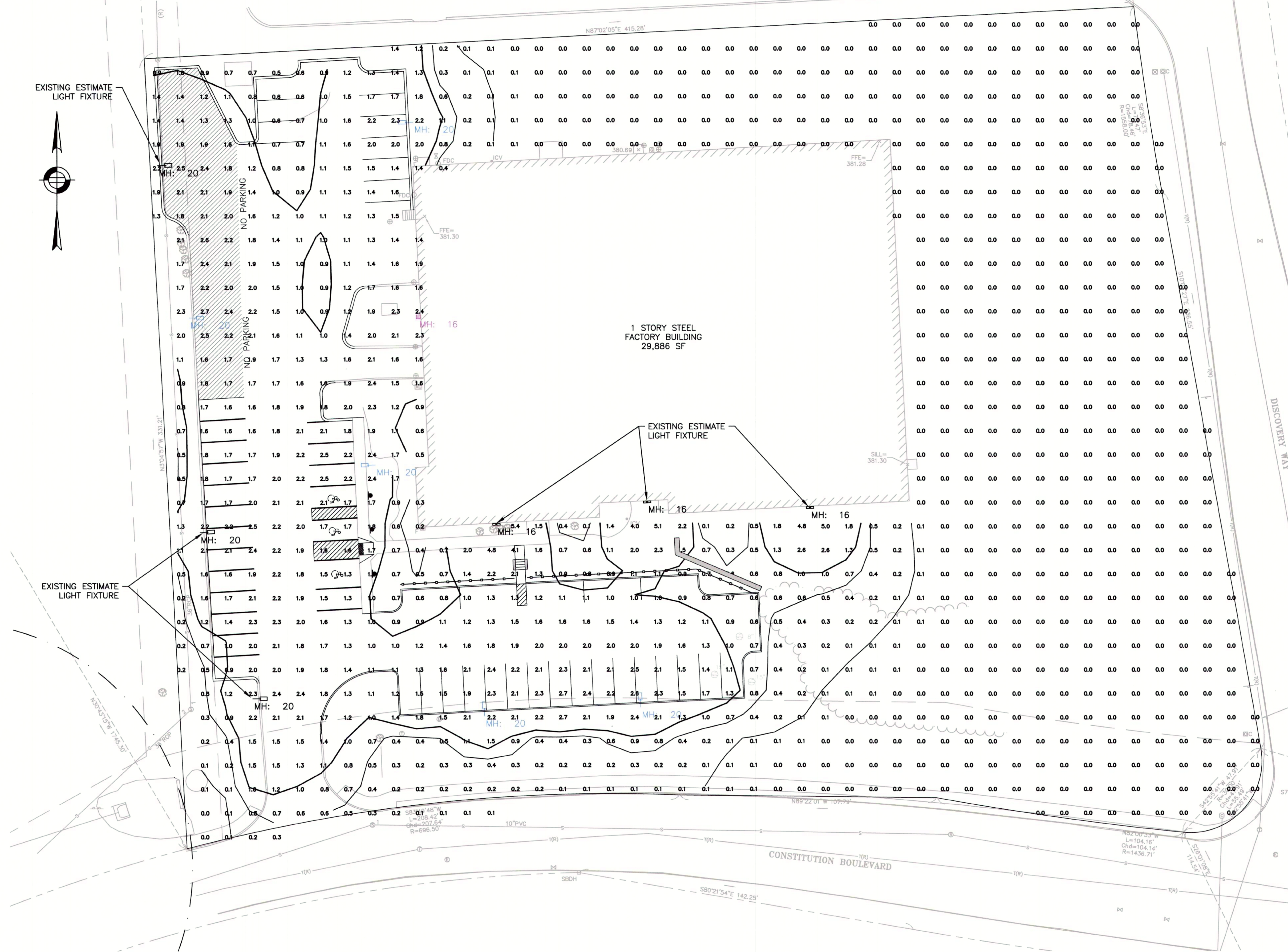
LANDSCAPE PLAN

DATE: 08/20/21
PROJECT NUMBER: 21123
DESIGNED BY: KL
DRAWN BY: KL
CHECKED BY: KE

C5
SHEET 5 OF 10

NOTE:
 1. NOTED FIXTURES ARE ESTIMATED AND EXISTING ON SITE. ALL OTHER FIXTURES ARE PROPOSED TO INCREASE LIGHTING ON SITE.

EXISTING ESTIMATE LIGHT FIXTURE



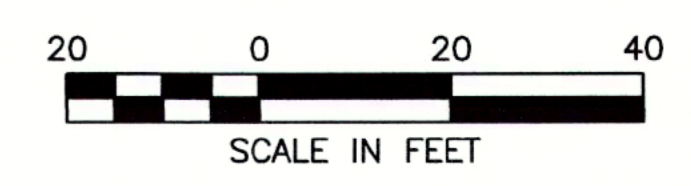
EXISTING ESTIMATE LIGHT FIXTURE

1 STORY STEEL
 FACTORY BUILDING
 29,886 SF

EXISTING ESTIMATE
 LIGHT FIXTURE

Luminaire Schedule			
Symbol	Qty	Label	Description
	1	MCGRAW EDISON - WALL	GWC-SALB-7XX-U-T4W-XX
	5	MCGRAW EDISON	GALN-SA2A-7XX-U-T4W-XX
	3	MCGRAW EDISON - EXISTING LOCATIONS	GALN-SA2A-7XX-U-T4W-XX
	3	WALLPACK	EXISTING

Calculation Summary						
Label	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Fc	0.67	5.4	0.0	N.A.	N.A.



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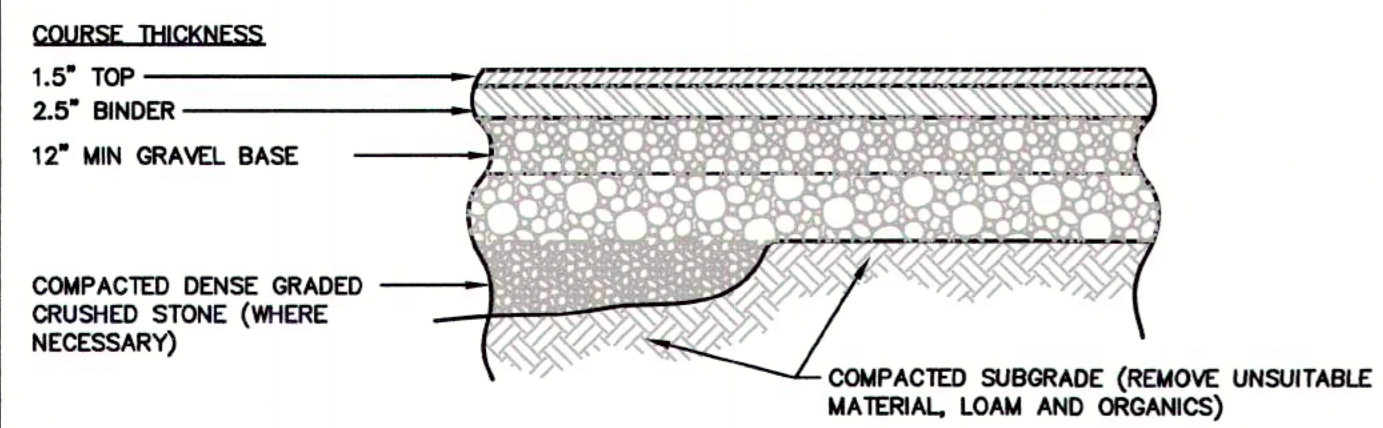
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SITE PLAN

LIGHTING PLAN

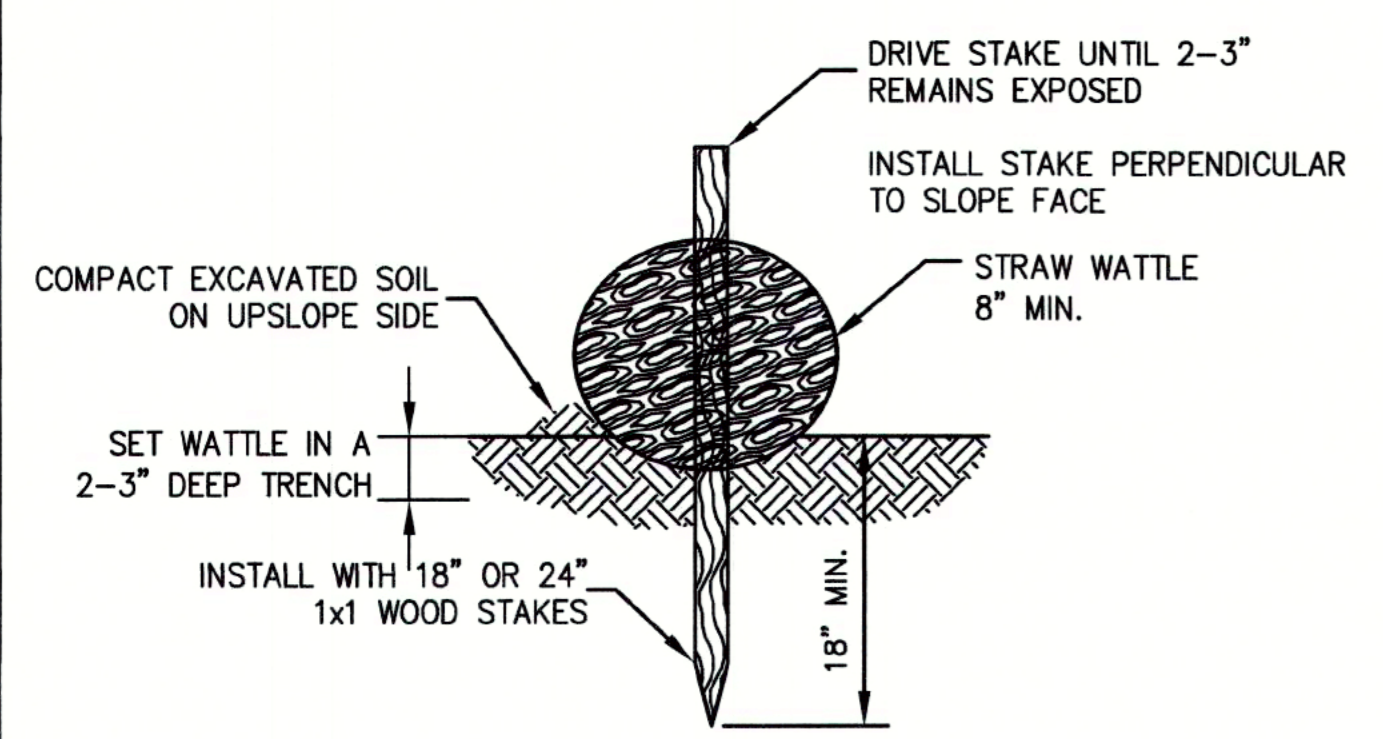
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 DRAWN BY: KL
 CHECKED BY: KE



COURSE	MATERIAL	SPECIFICATION PER MASS HIGHWAY DEPARTMENT (MHD)	MAX. AGG. SIZE (INCH)	COMPACTION REQUIREMENTS	TEST DESIGNATION
TOP	BITUMINOUS CONCRETE	M3.11.03 CLASS 1, TYPE 1-1	3/4	[NOTE 1]	AASHTO-T199
BINDER	BITUMINOUS CONCRETE	M3.11.03 CLASS 1, TYPE 1-1	3/4	[NOTE 1]	AASHTO-T199
BASE	GRAVEL BORROW	M1.03.0 TYPE C	2	95% [NOTE 3]	AASHTO-199
SUBBASE	GRAVEL BORROW	M1.03.0 TYPE B	3	95% [NOTE 3]	AASHTO-199
SUBGRADE	ORDINARY BORROW	M1.01.0 [SEE NOTE 2]	6	95% [NOTE 3]	AASHTO-199

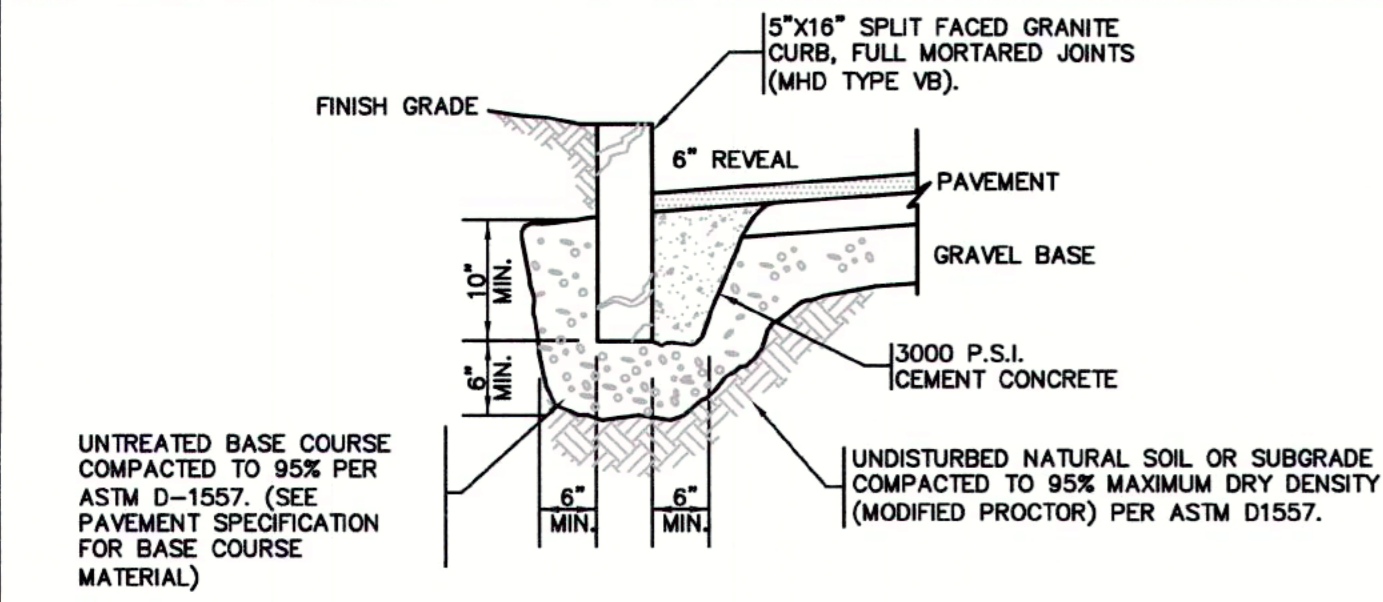
NOTES:
 [1] COMPACT TO TEST AVERAGE OF 95%. TEST SHALL NOT BE LOWER THAN 93%.
 [2] UNSUITABLE MATERIAL IN THE SUBGRADE SHALL BE REMOVED AND REPLACED WITH AN ACCEPTABLE SUBSTITUTE MATERIAL: 3/4" MINUS DENSE GRADED CRUSHED STONE.
 [3] MATERIAL SHALL BE SPREAD AND COMPACTED IN LAYERS NOT EXCEEDING 8-INCHES IN DEPTH, COMPACTED MEASUREMENT; LAST LAYER OF MATERIAL SHALL NOT EXCEED 4-INCHES IN DEPTH, COMPACTED MEASUREMENT.

BITUMINOUS CONCRETE PAVEMENT
 TYPICAL CROSS SECTION
 NOT TO SCALE

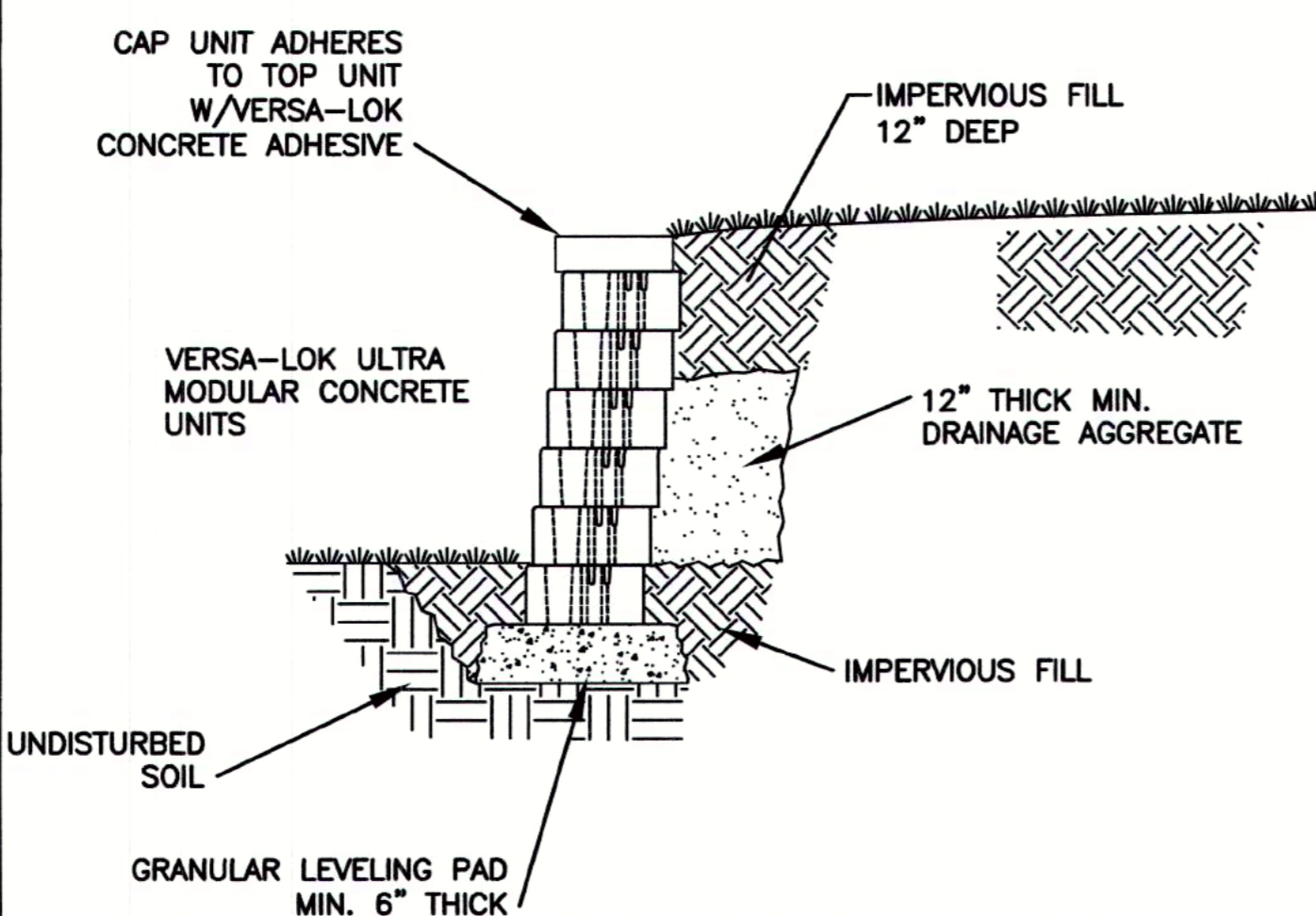


NOTES:
 1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2-3" (5-7.5 CM) DEEP X 9" (22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
 2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
 3. SECURE THE WATTLE WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
 4. STRAW WATTLE MATERIAL SHALL BE FREE OF STRAW AND ENCASED IN EITHER JUTE, NYLON, OR OTHER PHOTO DEGRADABLE MATERIAL.

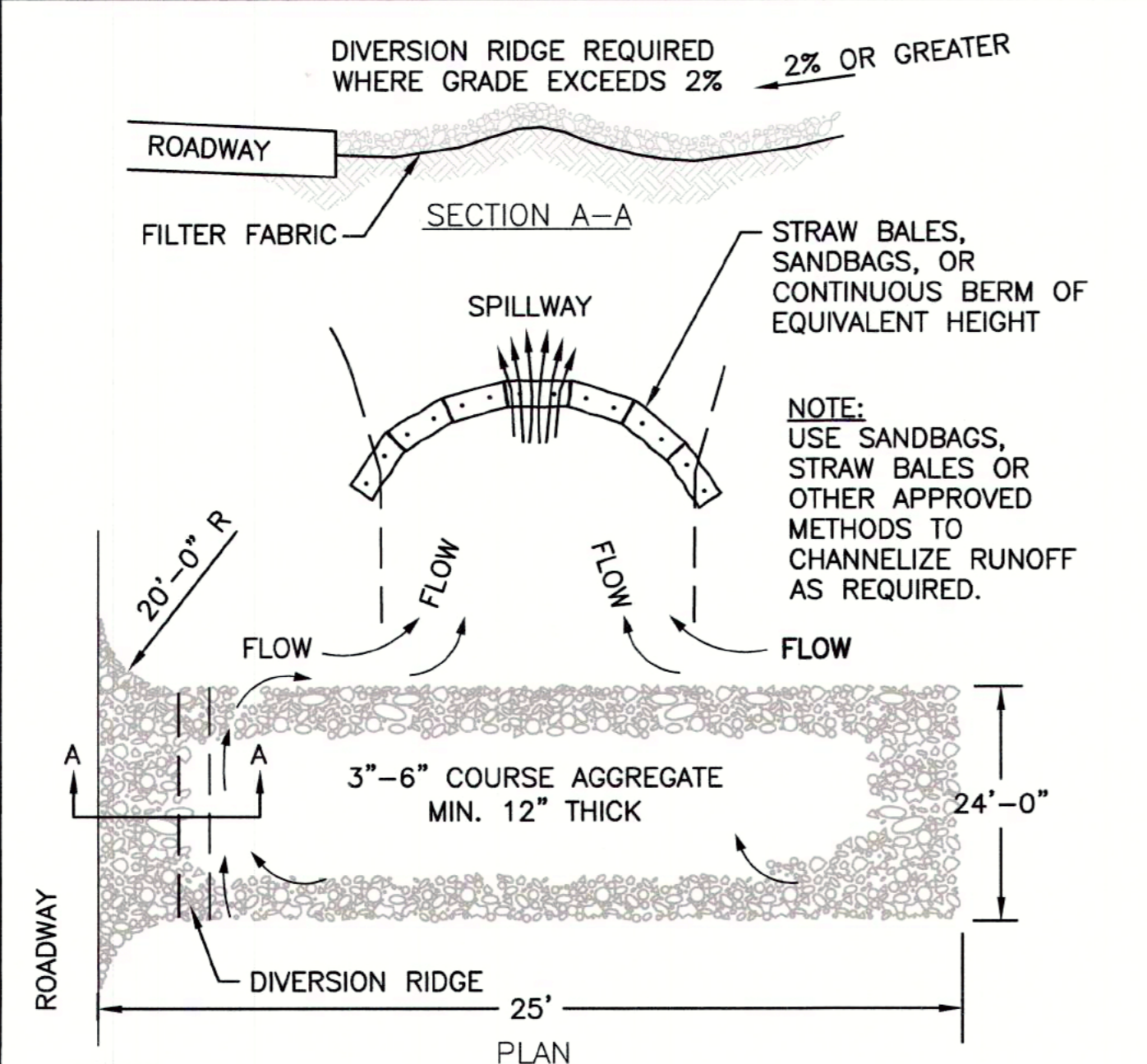
STRAW WATTLE
 TYPICAL CROSS SECTION
 NOT TO SCALE



VERTICAL GRANITE CURB
 TYPICAL CROSS SECTION
 NOT TO SCALE

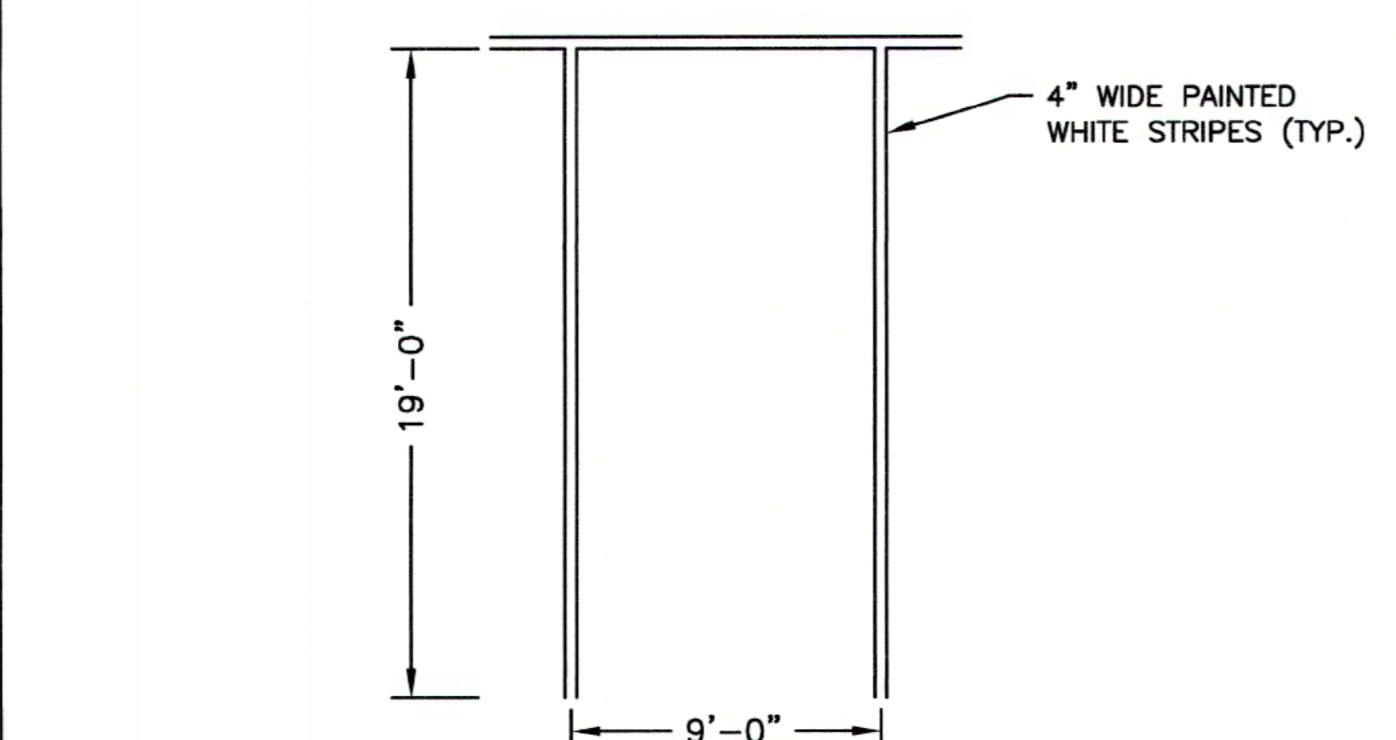


UNREINFORCED RETAINING WALL (VERSA-LOK OR EQUIVALENT)
 NOT TO SCALE

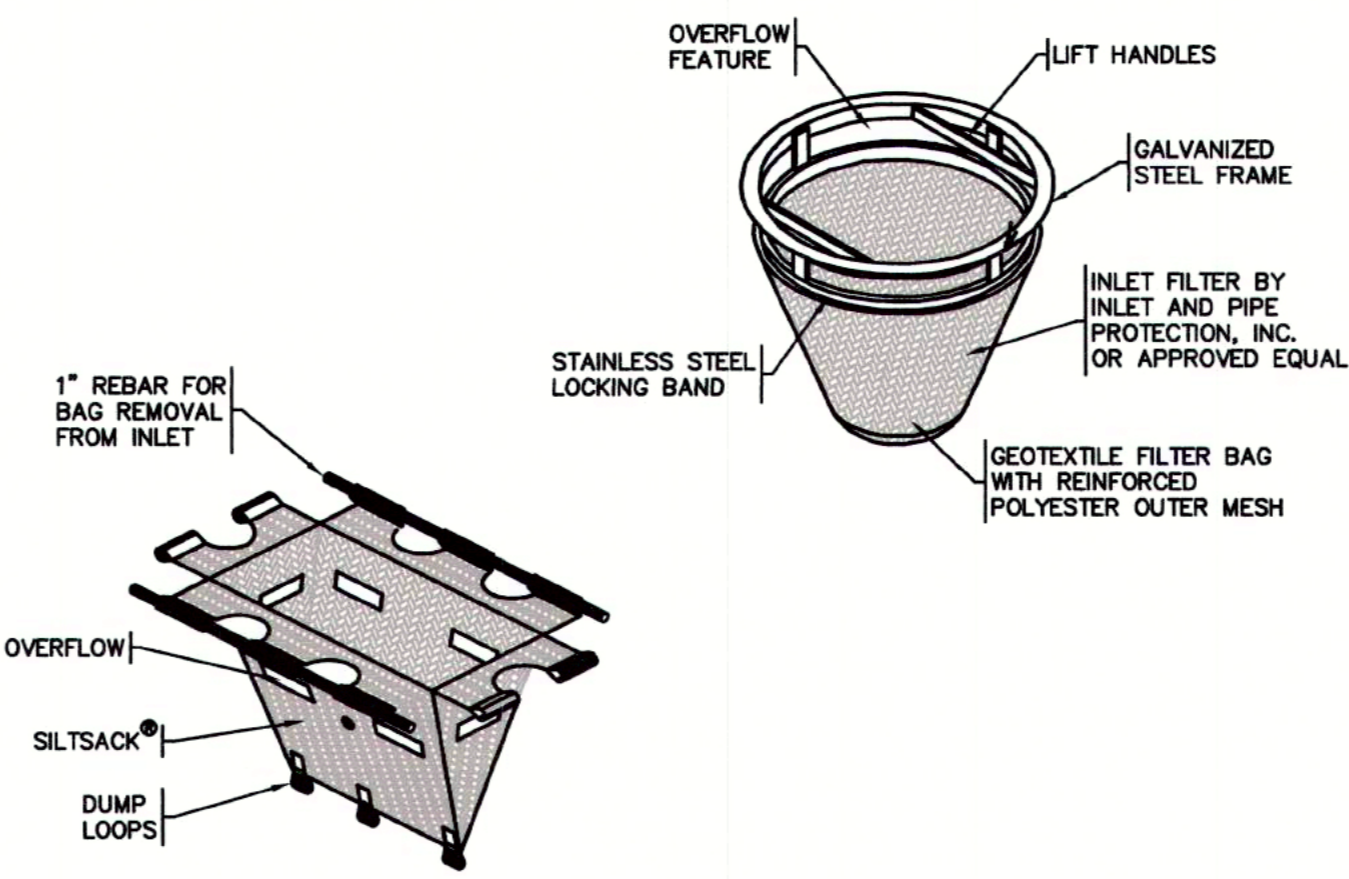


NOTES:
 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE APPLIED WHERE NECESSARY TO KEEP PUBLIC WAYS FREE OF SEDIMENT INCLUDING STAGING AREAS

STABILIZED CONSTRUCTION ENTRANCE
 TYPICAL CROSS SECTION
 NOT TO SCALE

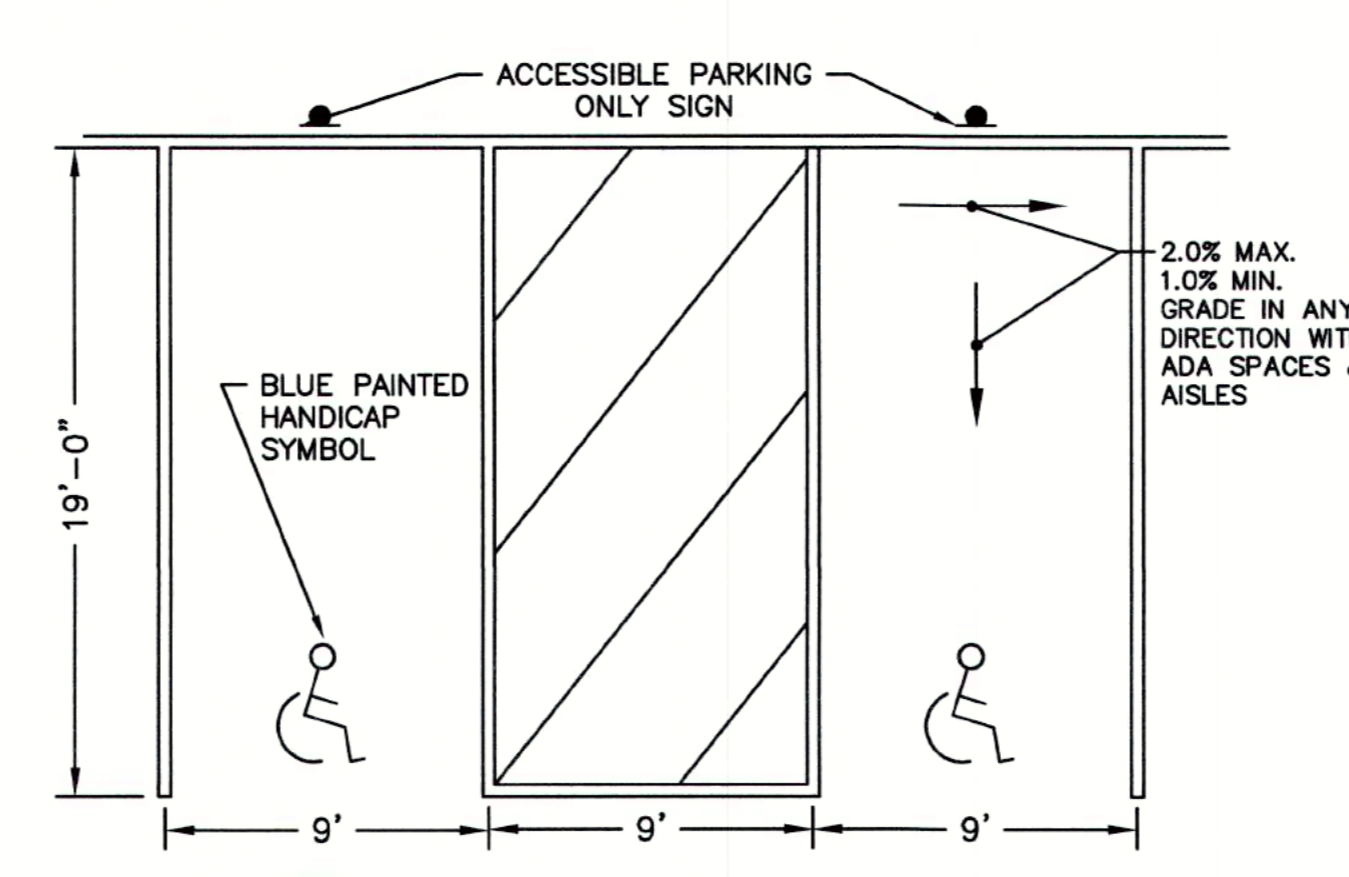


TYPICAL PARKING SPACE
 NOT TO SCALE

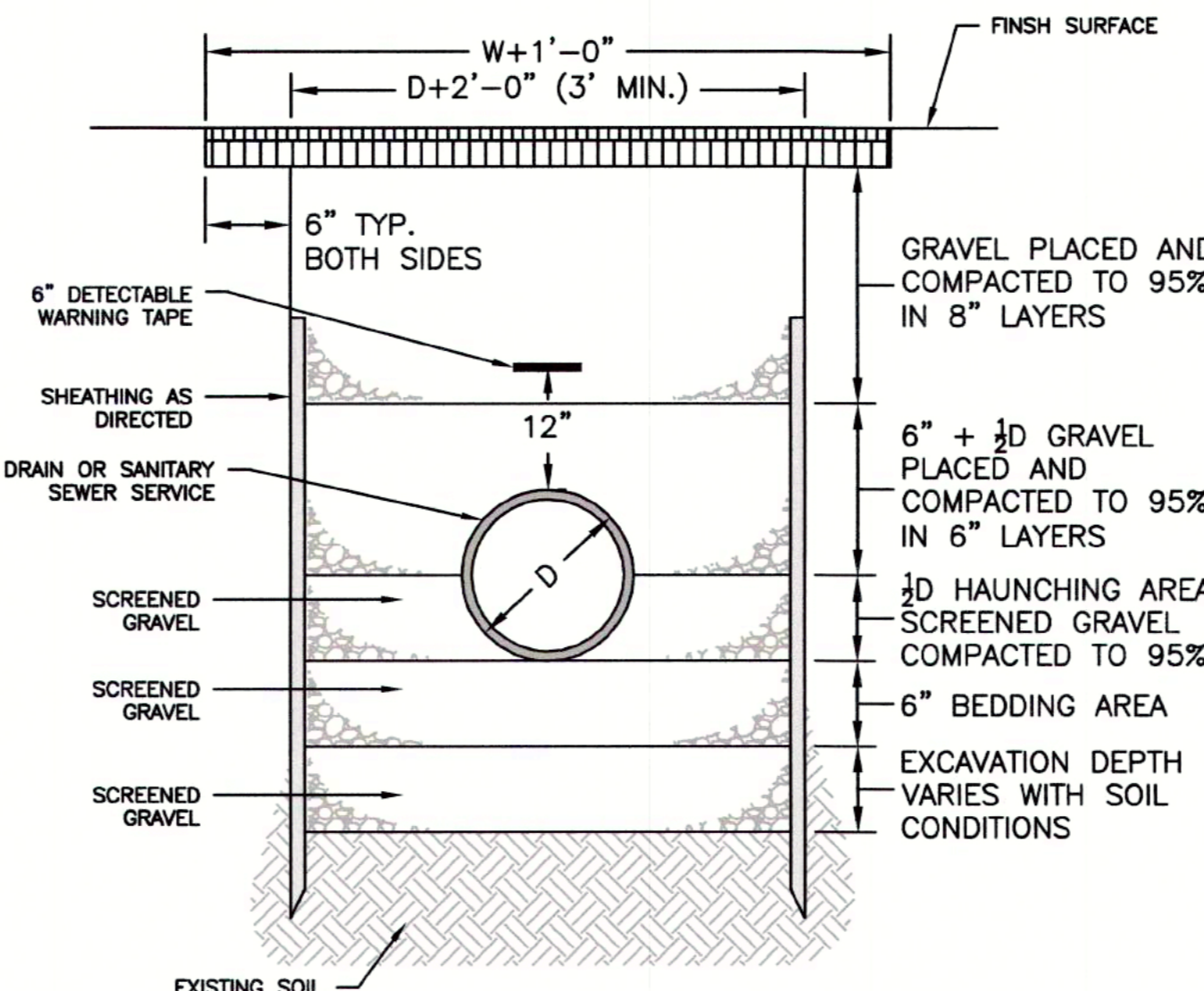


NOTES:
 [1] CLEAN INLET PROTECTION WHEN 30% FULL
 [2] BURLAP IS NOT AN ACCEPTABLE GEOTEXTILE

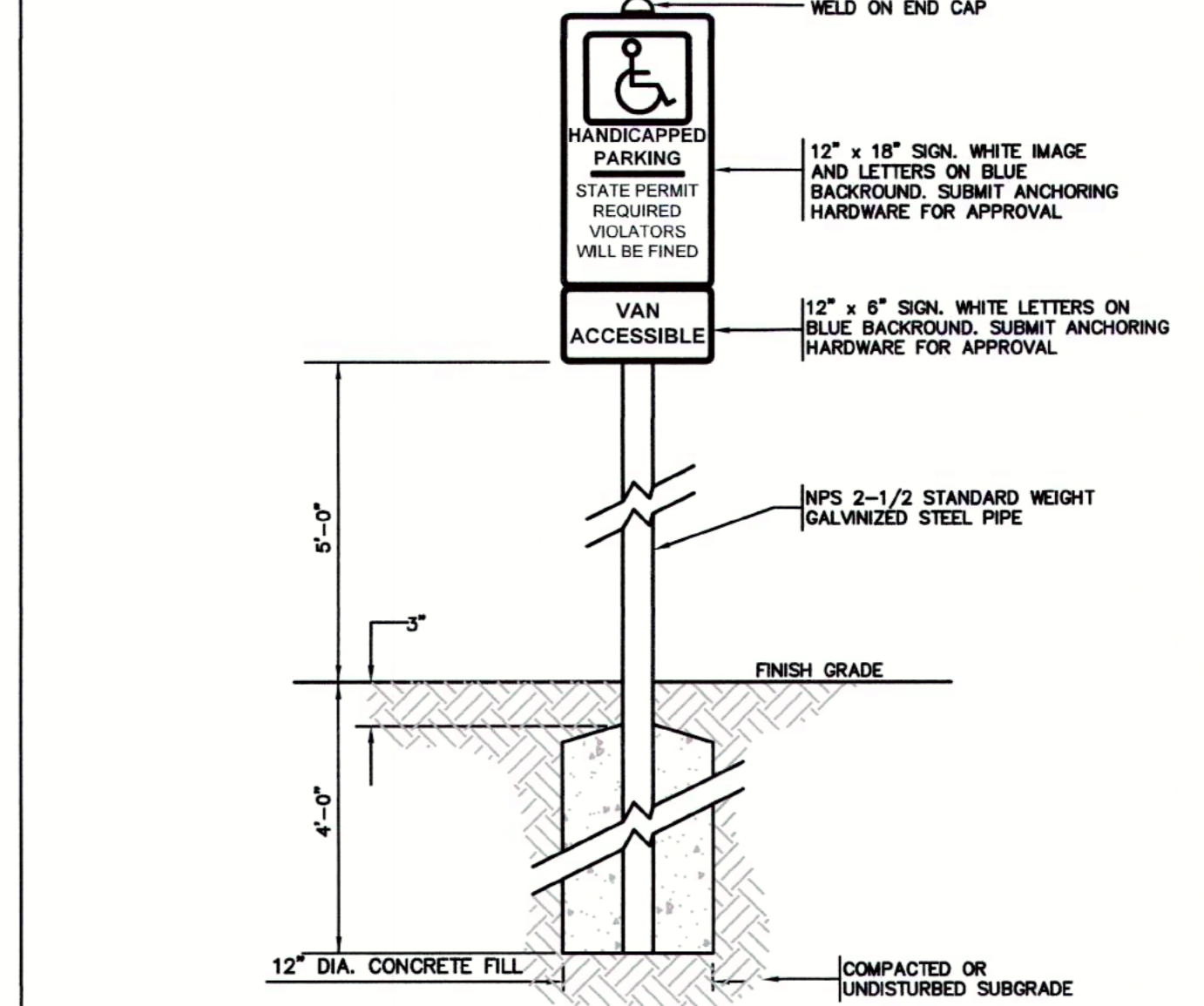
INLET PROTECTION
 TYPICAL CROSS SECTION
 NOT TO SCALE



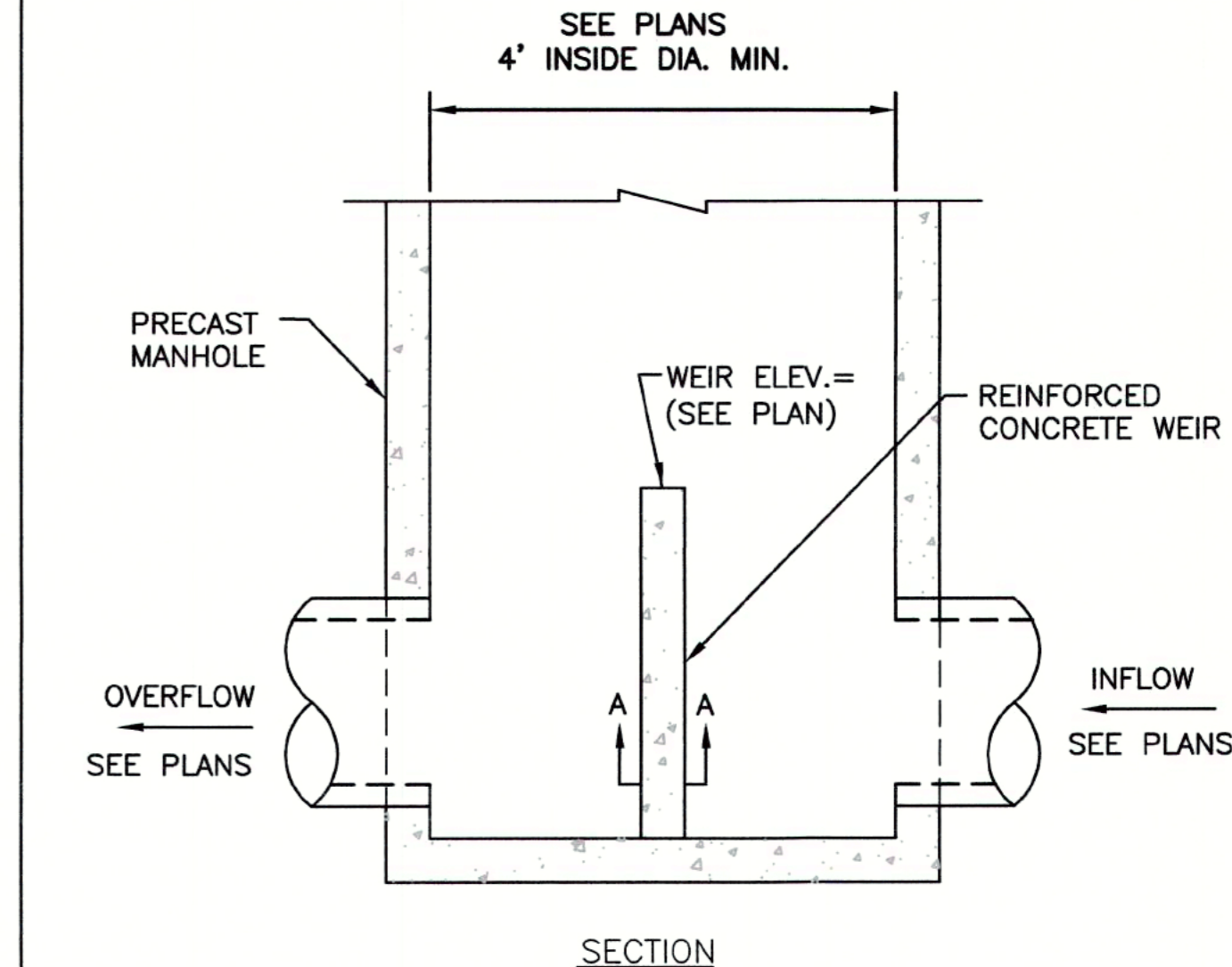
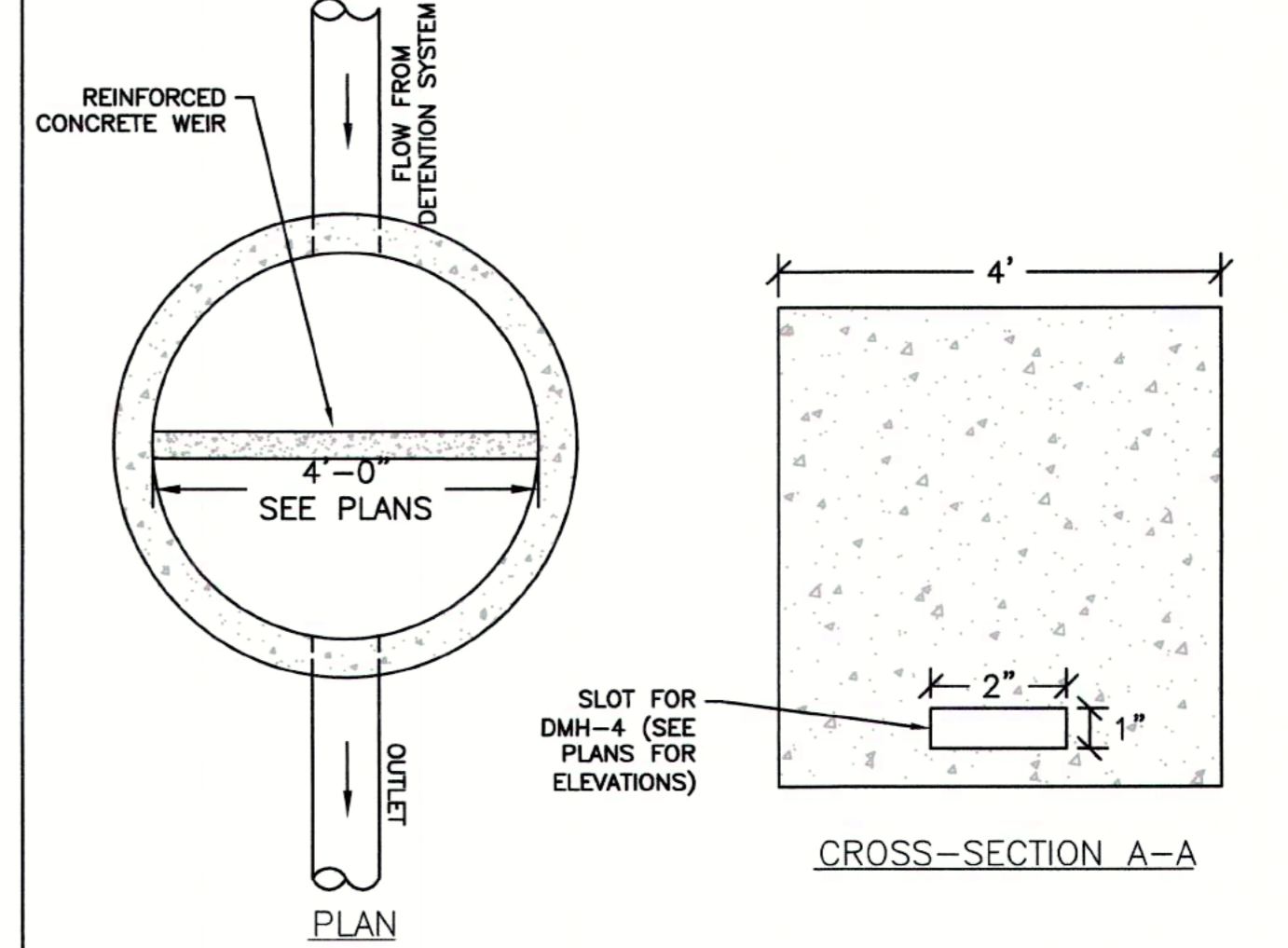
TYPICAL HANDICAP PARKING SPACE
 TYPICAL CROSS SECTION
 NOT TO SCALE



TRENCH DETAIL - DRAINAGE
 NOT TO SCALE



HANDICAP PARKING SIGN
 NOT TO SCALE



NOTES:
 1. 6 INCH MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 2. 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED. CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.
 3. CONTRACTOR TO SUBMIT METHOD OF BRACING WEIR.

DRAIN MANHOLE WITH WEIR
 NOT TO SCALE

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 THE OFFICES AT BOOT MILLS
 116 JOHN STREET SUITE 115
 LOWELL, MA 01852

PARKING LOT EXPANSION
 120 CONSTITUTION BLVD
 FRANKLIN, MA, 02038

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KL	2/1/22	REV. PARKING LAYOUT
2	KL	4/6/22	REV. PER BOARD & BETA



SITE PLAN

DETAIL SHEET
 1 OF 4

DATE: 08/20/21
PROJECT NUMBER: 21123
DESIGNED BY: KL
DRAWN BY: KL
CHECKED BY: KE



HOWARD STEIN HUDSON
 11 Beacon Street, Suite 1010
 Boston, MA 02108
 www.hshassoc.com

OWNER:
 LRF2 BOS CONSTITUTION BLVD, LCC
 50 TICE BOULEVARD - SUITE A28
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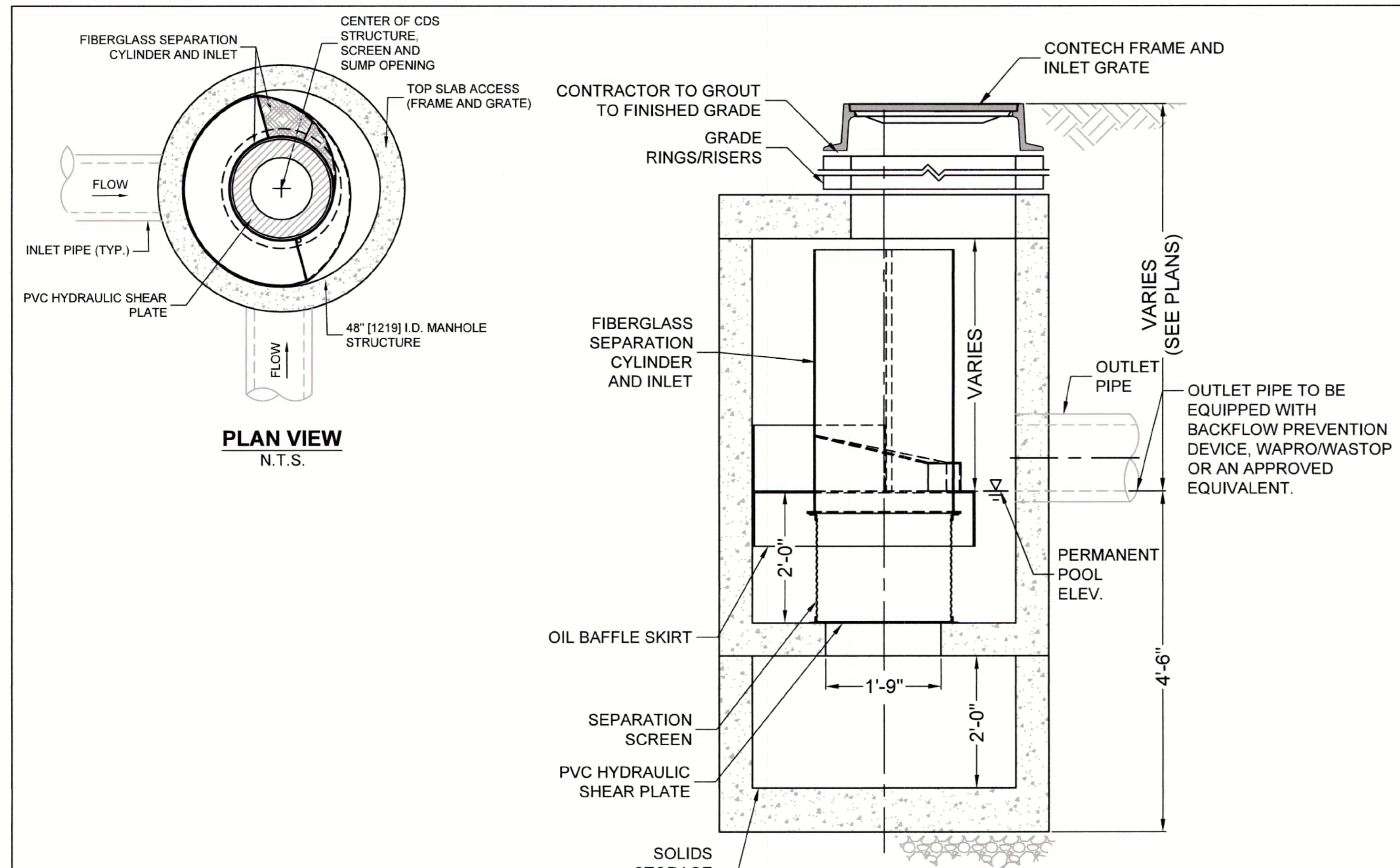
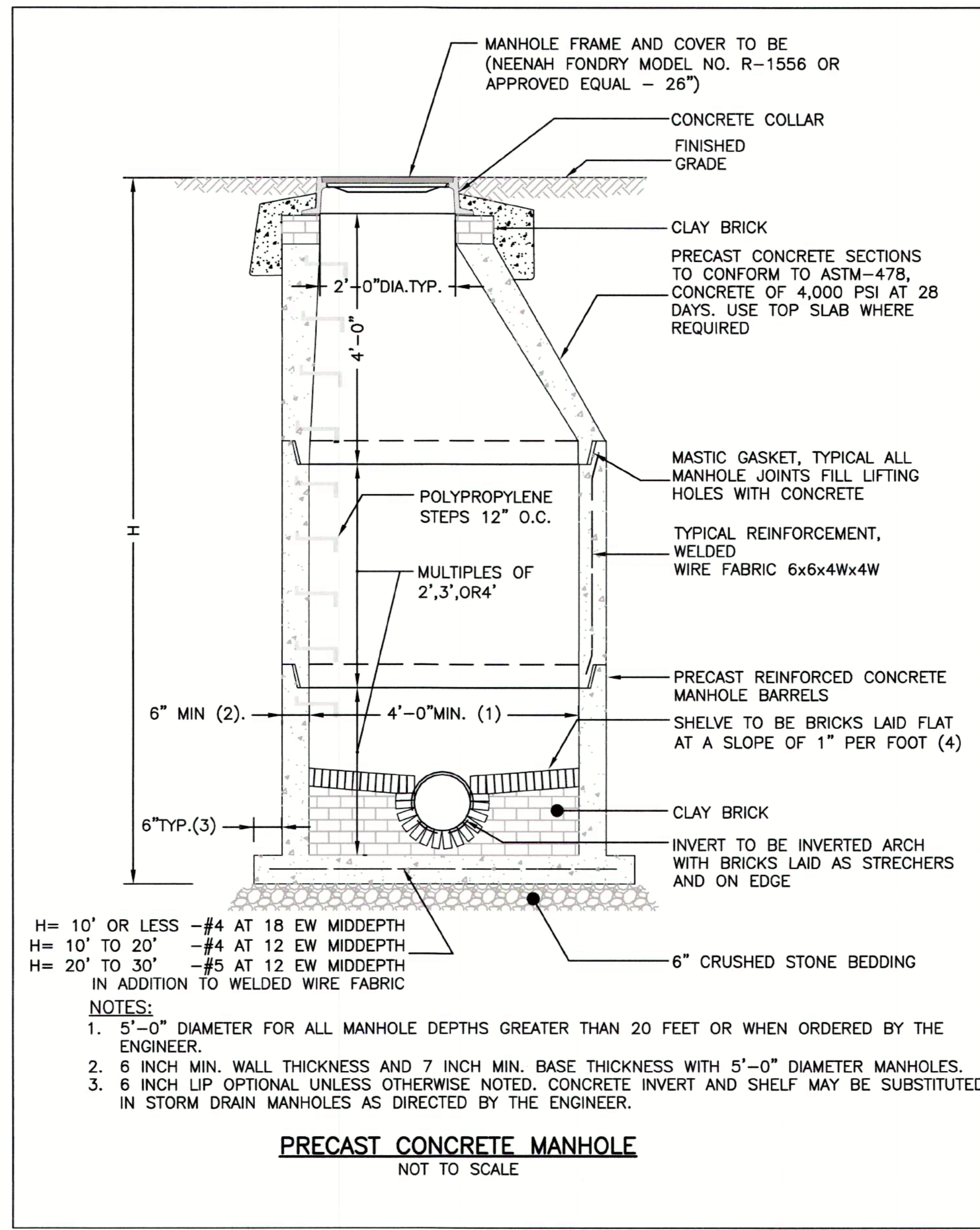
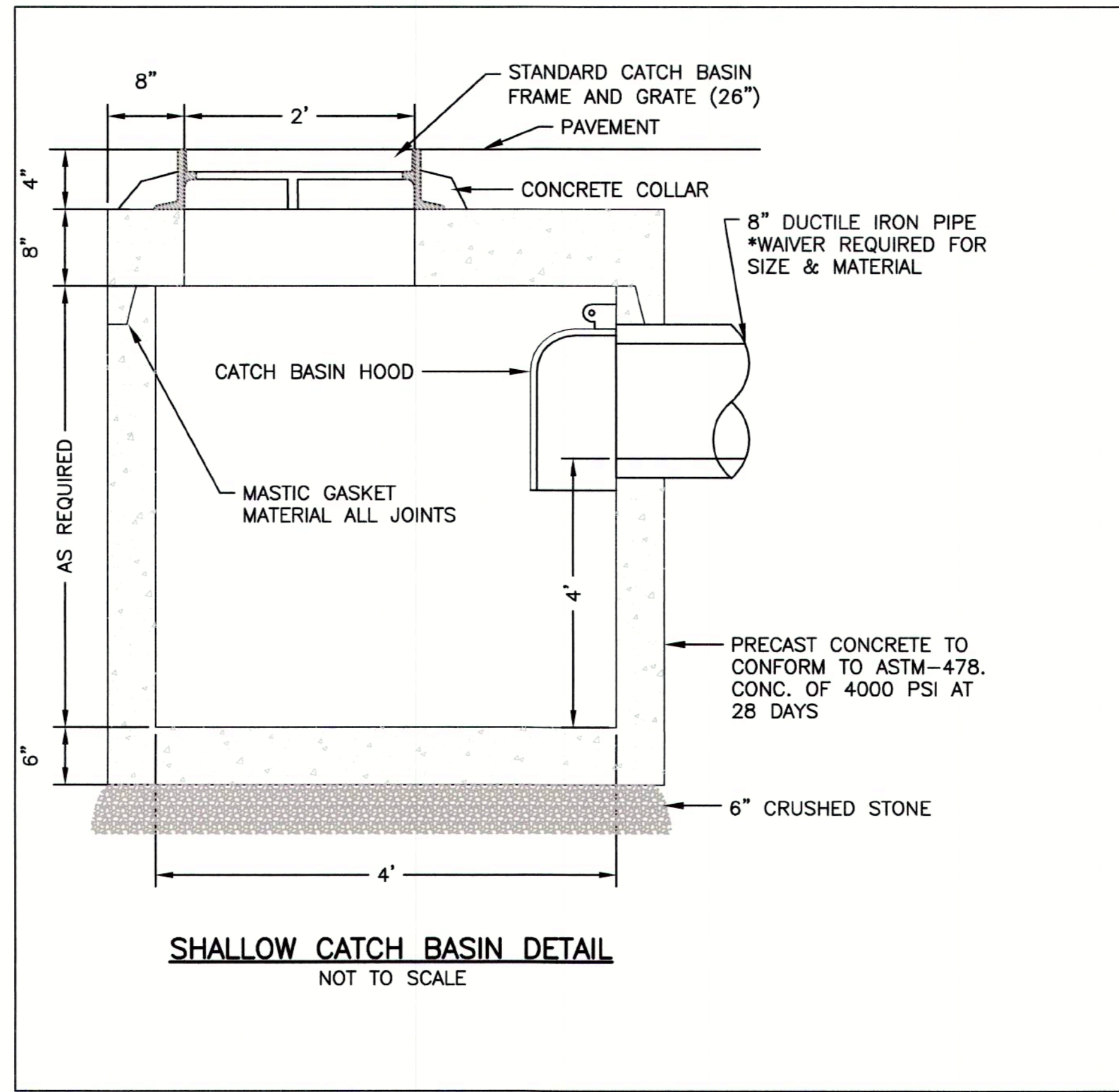


SITE PLAN

DETAIL SHEET
 2 OF 4

DATE:	08/20/21
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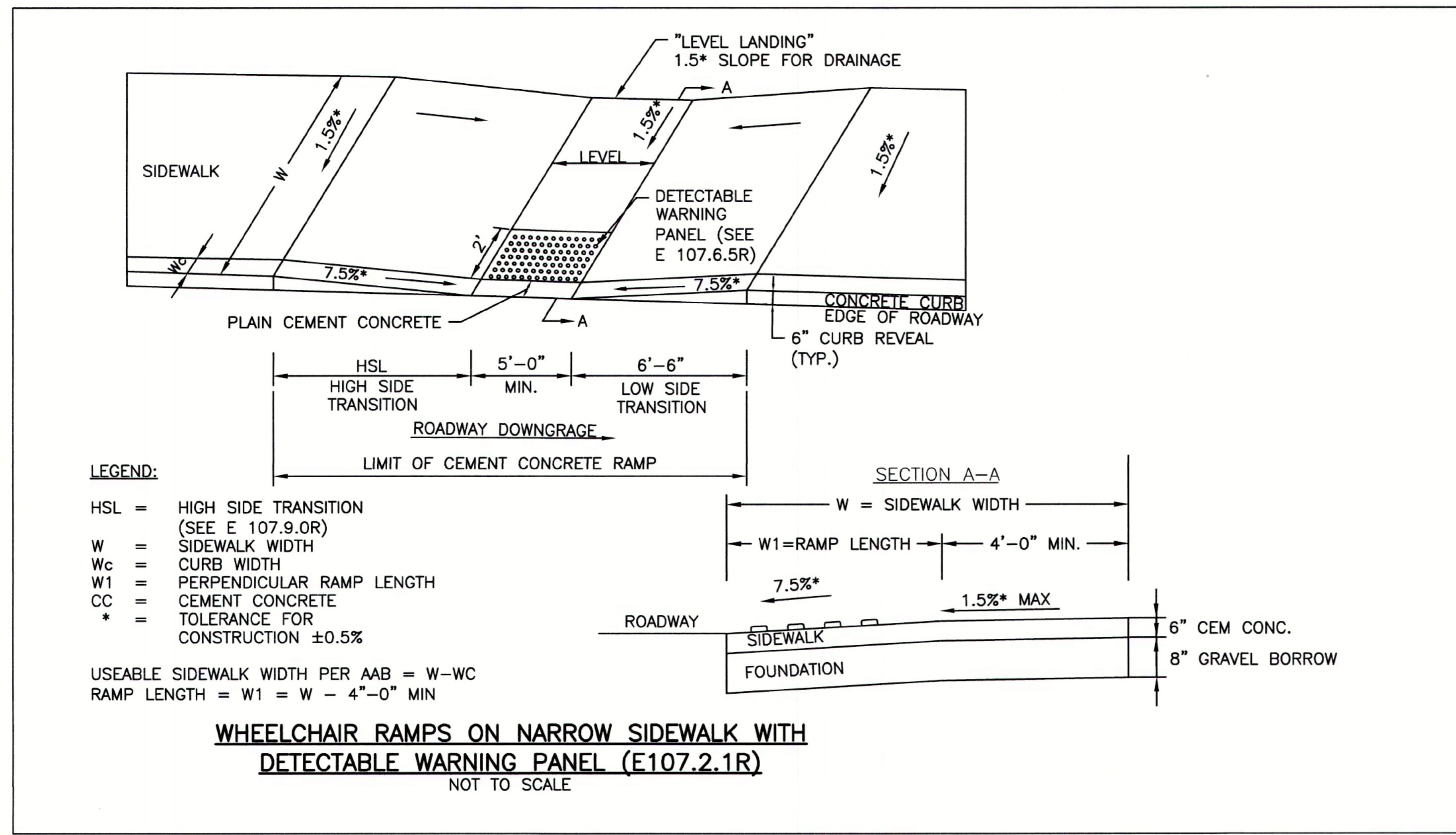


GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS 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 HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION 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 CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



4/6/2022 L:\11123\CURRENT\11123 - Site Plan_R3.dwg Kristen LaBrie

SC-310 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-310.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER); 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN² AND TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS J AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

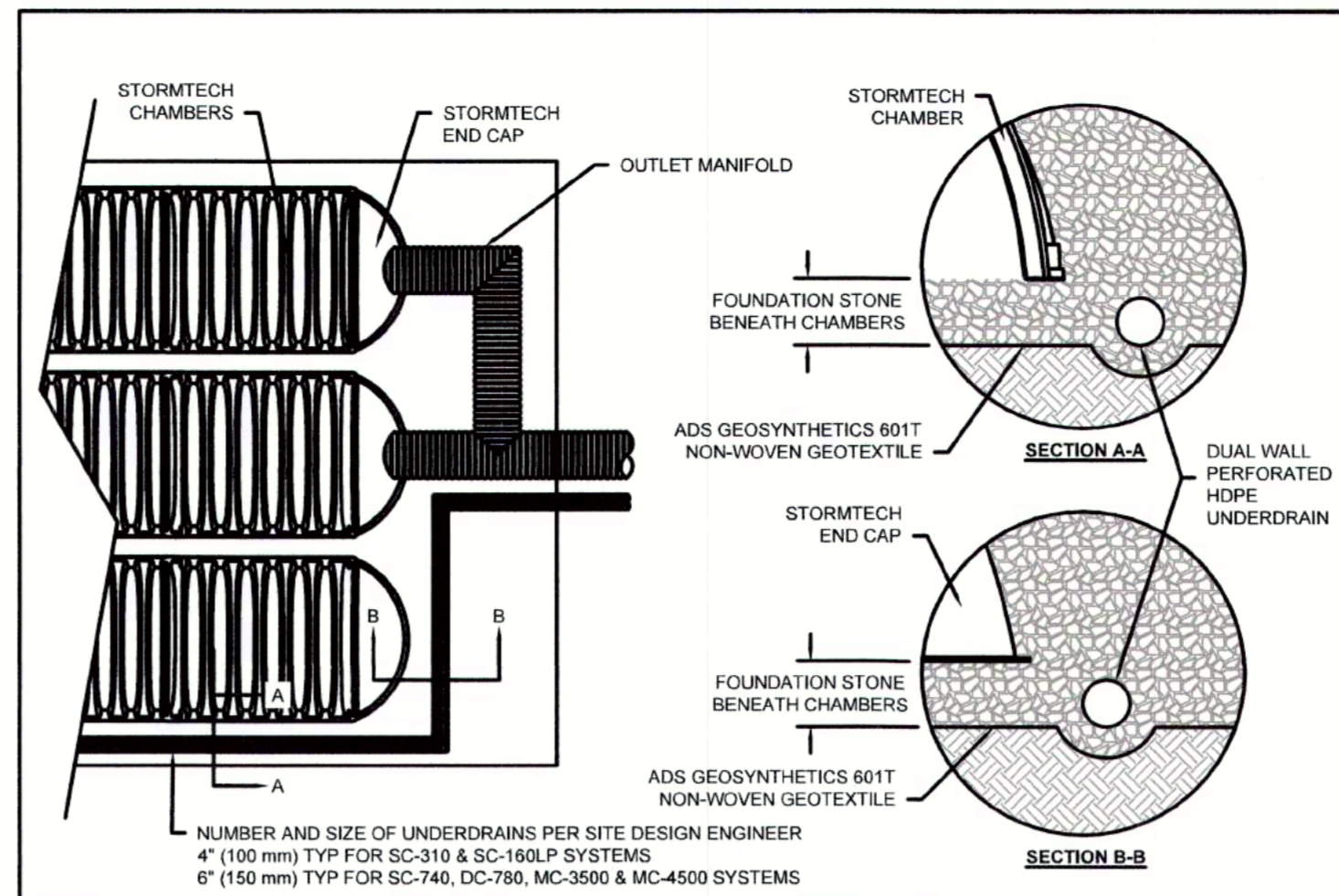
- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONESHOOTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING STONE.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

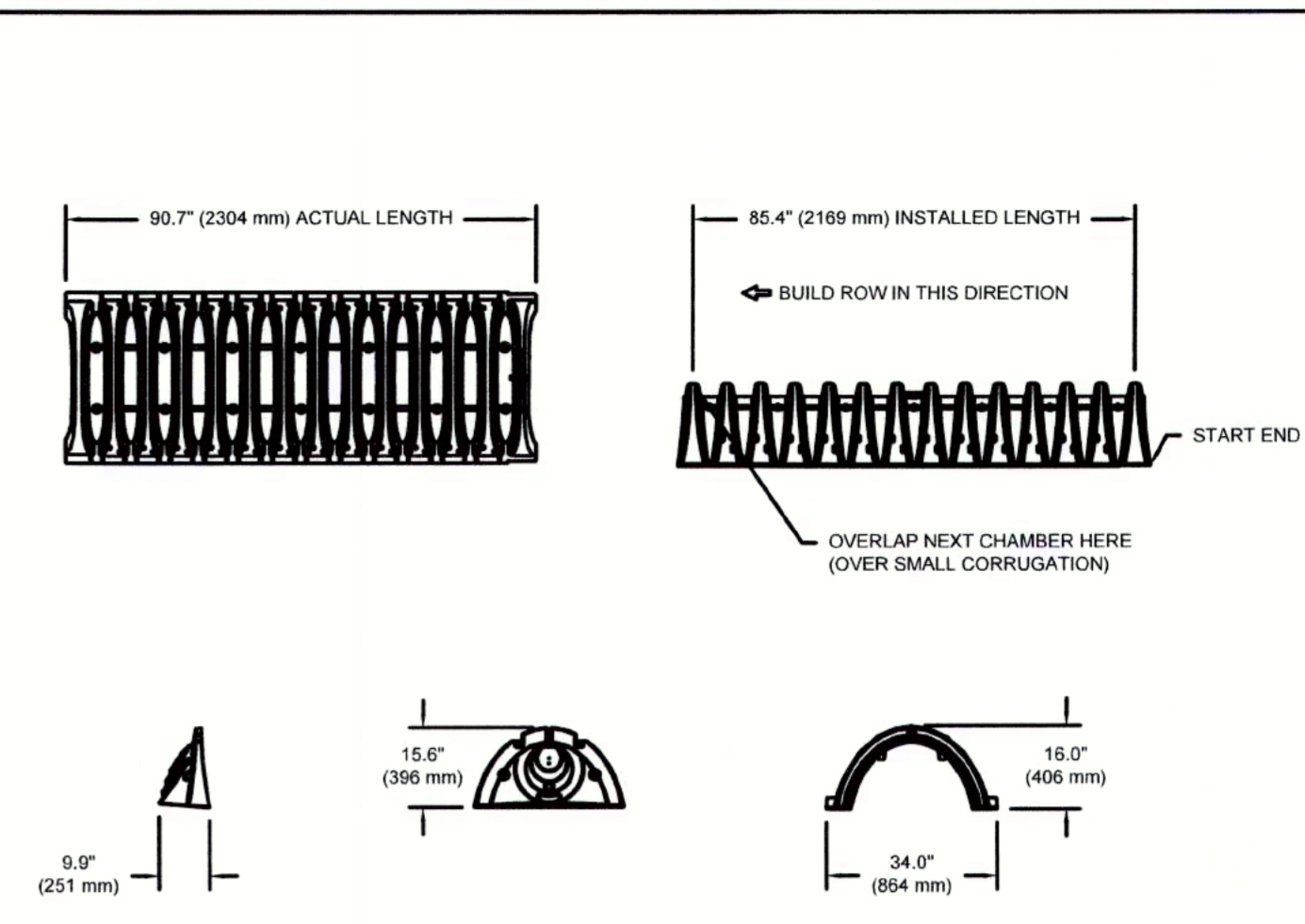
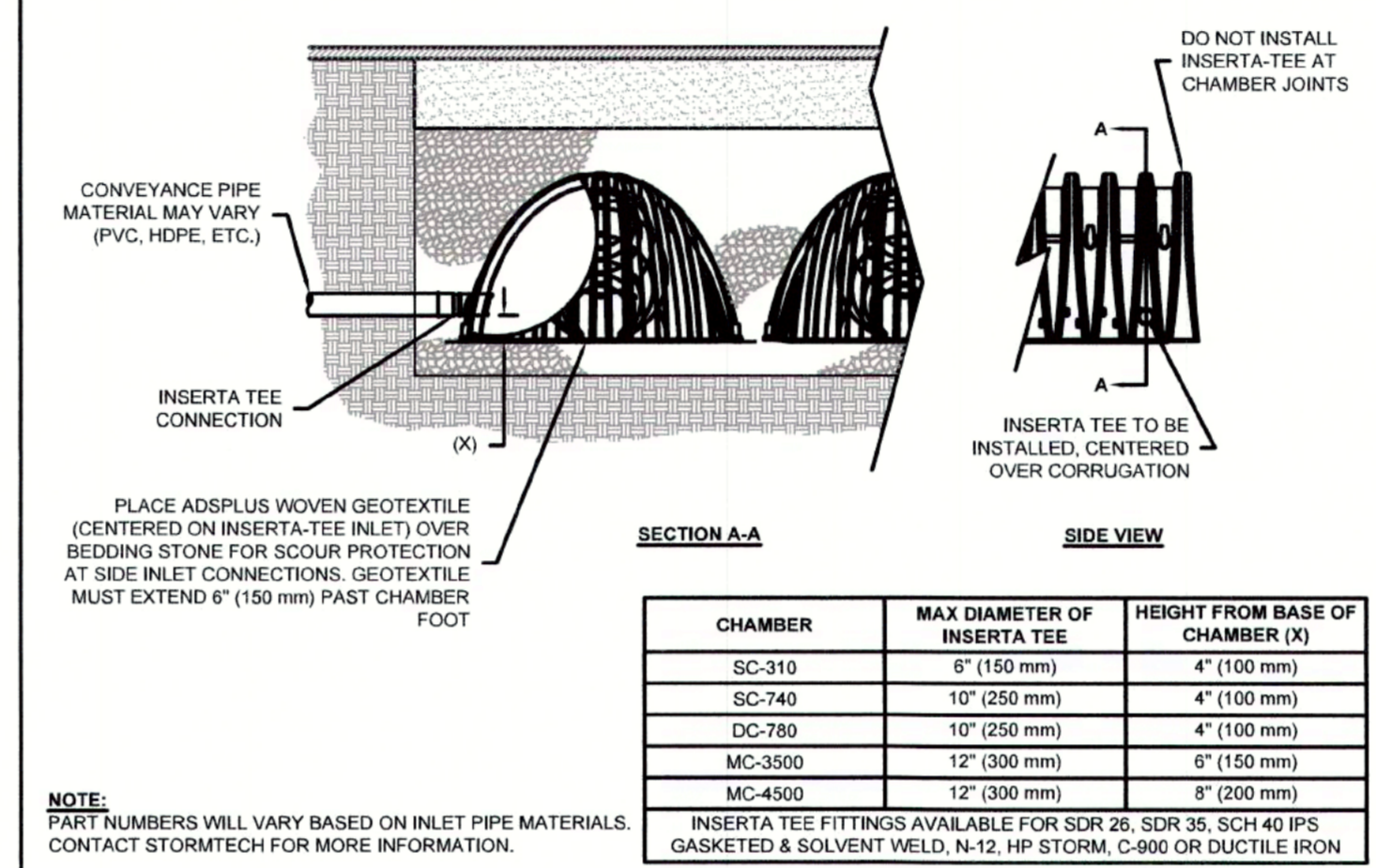
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL



2 SC-310 TECHNICAL SPECIFICATIONS

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
CHAMBER STORAGE	14.7 CUBIC FEET (0.42 m ³)	
MINIMUM INSTALLED STORAGE*	31.0 CUBIC FEET (0.88 m ³)	
WEIGHT	35.0 lbs. (16.8 kg)	

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUB AT BOTTOM OF END CAP WITH FLAMP END WITH "BR"
PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

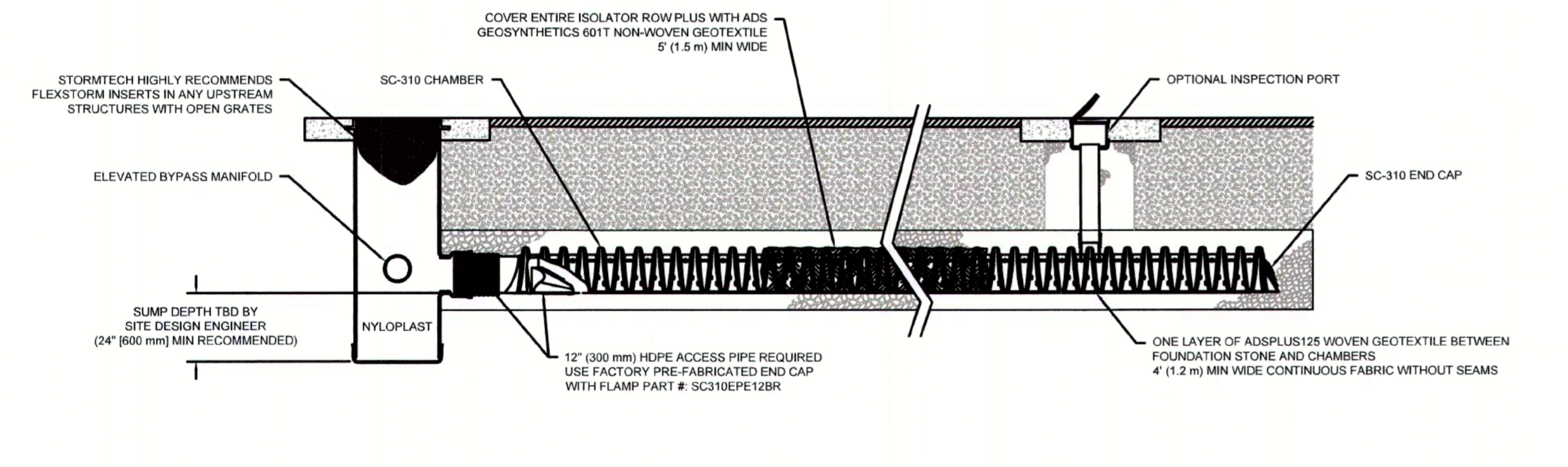
ALL STUBS, EXCEPT FOR THE SC310EP12B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC310EP12B THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL.

6 INSERTA-TEE SIDE INLET DETAIL

2 SC-310 TECHNICAL SPECIFICATIONS

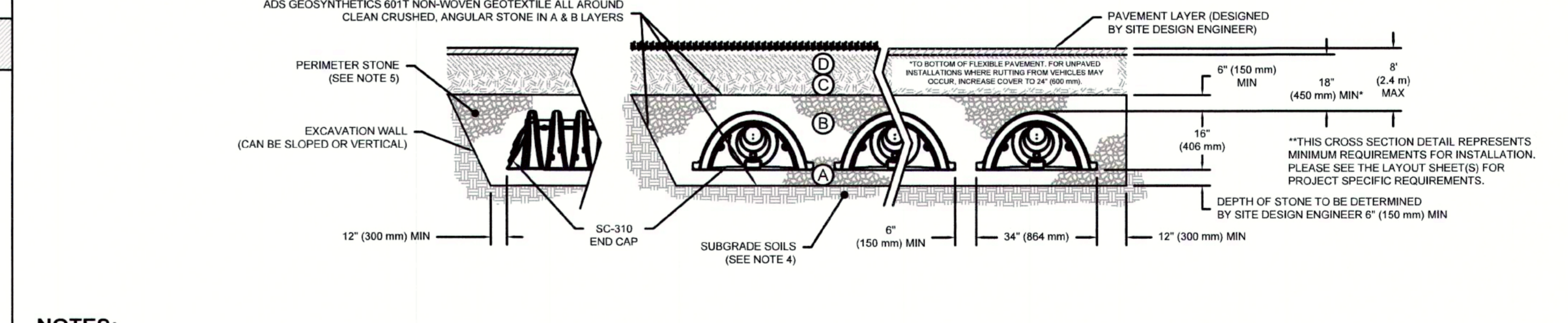


ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. OR MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57

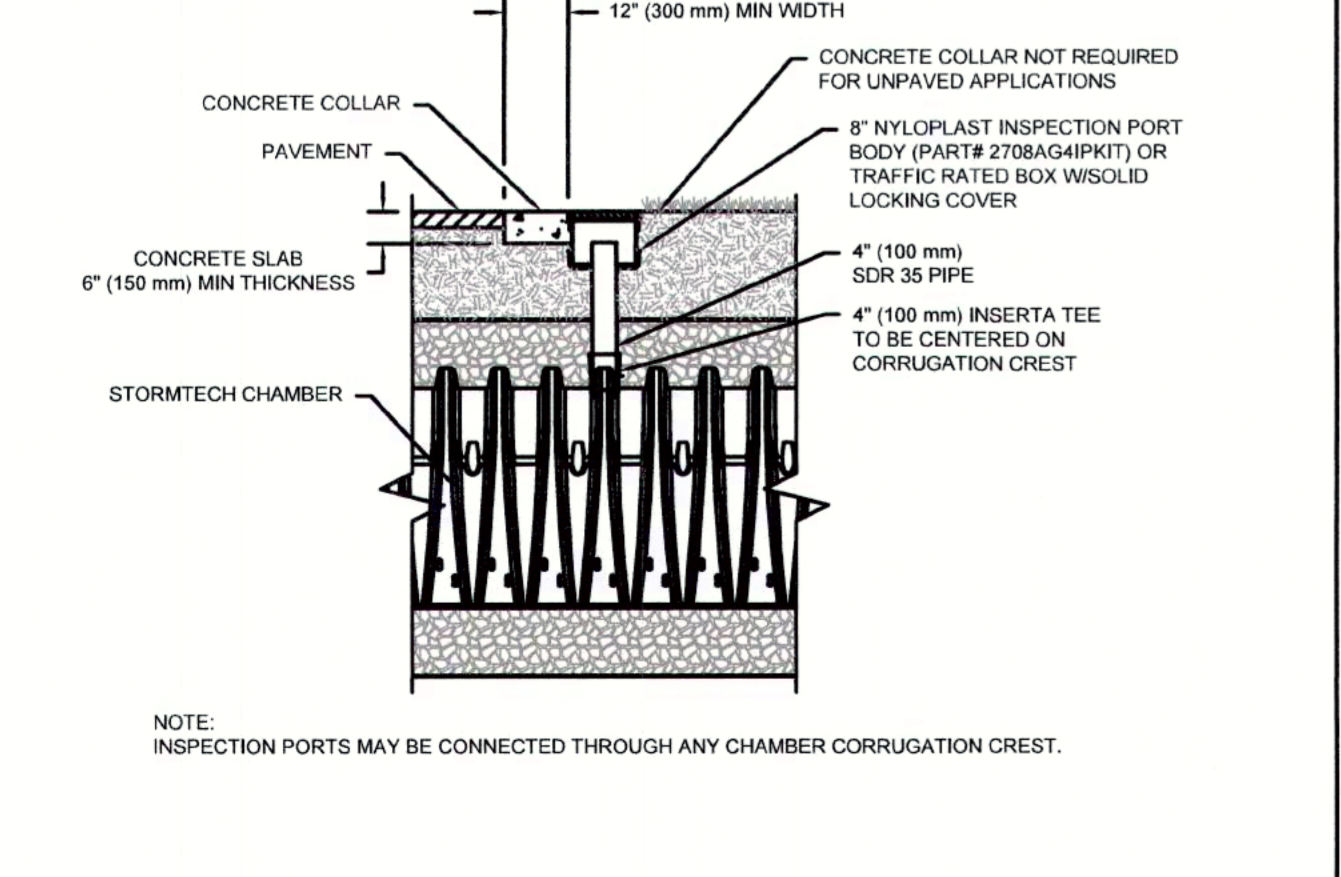
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR "A" LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) MAX LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

3 SC-310 ISOLATOR ROW PLUS DETAIL



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-310 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2922 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/IN² AND TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.



INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS**
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS**
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.**
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.**

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

1 SC-310 CROSS SECTION DETAIL

OWNER:
LRF2 BOS CONSTITUTION BLVD, LLC
50 TICE BOULEVARD - SUITE A28
WOODCLIFF LAKE, NJ 07677

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C9
SHEET 9 OF 10



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