

# DEC UNIFIED PERMITTING SET

# DEVENS PUBLIC SAFETY BUILDING

270 BARNUM ROAD  
WORCESTER COUNTY, DEVENS, MA 01434

PREPARED FOR:  
**WINTER STREET ARCHITECTS INC**  
26 CONGRESS STREET, SUITE 201  
SALEM, MA 01970

**NOTES:**

- EXISTING OR PROPOSED USE WILL NOT GENERATE ELECTROMAGNETIC INTERFERENCE TO ANY SENSITIVE RECEPTOR. INTERFERENCE WITH THE HARVARD-SMITHSONIAN RADIO TELESCOPE (1400-1720 MHz) IS SPECIFICALLY PROHIBITED.
- PROPOSED OR EXISTING USE WILL NOT CAUSE PRONOUNCED, MULTIPLE PATTERNS OF NOISE OR VIBRATION NUISANCE TO, OR INTERFERE WITH, ANY SENSITIVE RECEPTOR.
- EITHER "A MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) AIR QUALITY PERMIT APPLICATION HAS BEEN MADE" OR "A DEP AIR QUALITY PERMIT IS NOT REQUIRED."

**ZONING TABLE**

ZONING TABLE - DEVENS			
ZONE: BUSINESS & COMMUNITY SERVICES (BCS)/OPEN SPACE & RECREATION			
AQUIFER DISTRICT			
USE: MUNICIPAL			
<b>DIMENSIONAL REQUIREMENTS</b>	<b>ALLOWED/REQUIRED</b>	<b>EXISTING</b>	<b>PROPOSED</b>
MINIMUM LOT SIZE	15,000 SF	152,900 SF	152,900 SF
MINIMUM FRONTAGE	100 FT	788 FT	788 FT
FRONT YARD SETBACK	25 FT	52.8 FT	52.8 FT
SIDE YARD SETBACK	25 FT*	99.5 FT	33.1 FT
REAR YARD SETBACK	25 FT	N/A	N/A
MAXIMUM IMPERVIOUS SURFACE RATIO	0.60	0.43	0.50
MAXIMUM BUILDING HEIGHT	45 FT	24 FT*	31.75 FT
MAXIMUM FLOOR AREA RATIO (FAR)	0.25	0.15	0.18
<b>PARKING REQUIREMENTS</b>	<b>ALLOWED/REQUIRED</b>	<b>EXISTING</b>	<b>PROPOSED</b>
TOTAL NUMBER OF PARKING SPACES	TBD	67 SPACES	67 SPACES
TOTAL NUMBER OF ACCESSIBLE SPACE	3 SPACES	6 SPACES	3 SPACES
NUMBER OF EMPLOYEES PER SHIFT	N/A	N/A	<49
GROSS FLOOR AREA (MUNICIPAL USES)	SEE BELOW	SEE BELOW	SEE BELOW

\* FOR LOTS ABUTTING OR CONTAINING ZONING DISTRICT BOUNDARY LINES, SETBACKS SHALL BE INCREASED TO 25' UNLESS ADJACENT TO THE RESIDENTIAL 1 AND RESIDENTIAL 2 ZONING DISTRICTS WHERE THE MINIMUM SETBACK SHALL BE 50'.

**WAIVERS:**

974 CMR 3.02(3)(a) - REQUEST FOR WAIVER TO INCREASE THE DRAWING SHEET SIZE FROM 24"x36" TO 30"x42" SIZE, AND TO CHANGE THE SITE PLAN SCALE FROM 40'-0" TO 20'-0".

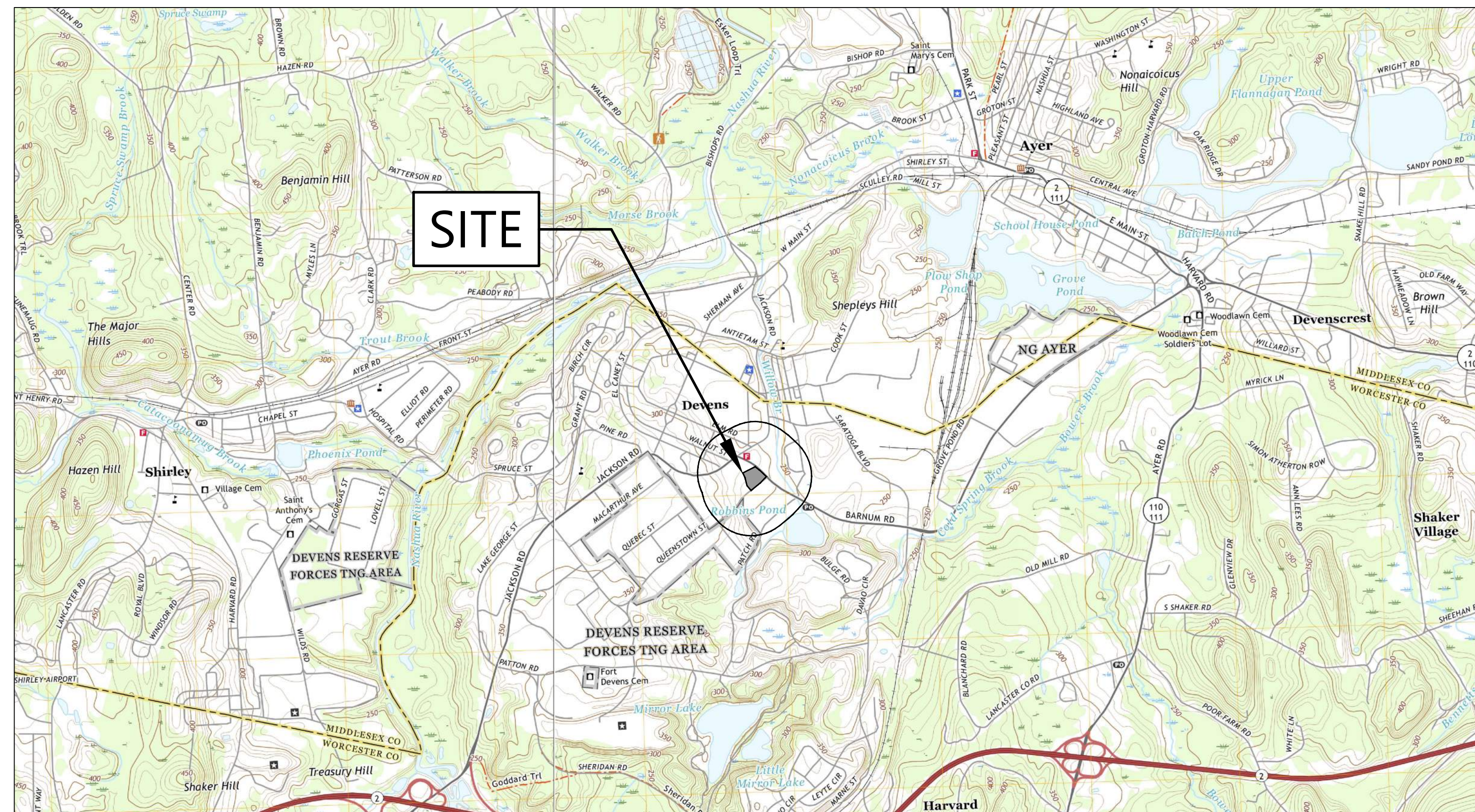
974 CMR 3.02(3)(a)(1)(a) - PARKING ALLOWED IN THE FRONT OF THE BUILDING SHALL BE LIMITED TO 10% OF THE REQUIRED PARKING SPACES IN ACCORDANCE WITH 974 CMR 3.04(3)(A)1.F

974 CMR 3.04(3)(a)4.a - ANY PORTION OF ANY ENTRANCE OR EXIT DRIVEWAY SHALL NOT BE LOCATED CLOSER THAN 150' TO THE CURB/GUTTER LINE OF AN INTERSECTING STREET. FOR RESIDENTIAL PROJECTS, THIS REQUIREMENT MAY BE REDUCED BY THE DEC AS LONG AS THE DEC DETERMINES THAT THE APPLICANT HAS ADEQUATELY ADDRESSED SAFETY CONCERNS.

**GROSS FLOOR AREA (MUNICIPAL USES)**

EXISTING - NOT IN SCOPE	4231 SQ.FT.
EXISTING STRUCTURE - TO BE RENOVATED	19007 SQ.FT.
NEW- SALLY PORT	1040 SQ.FT.
NEW- APPARATUS BAY	7256 SQ.FT.
NEW- TRAINING TOWER	281 SQ.FT.
<b>TOTAL (IN SCOPE)</b>	<b>27,584 SQ.FT.</b>

TOTAL SITE AREA = 152,900 SF  
TOTAL IMPERVIOUS COVERAGE = 75,700 SF  
OPEN SPACE AREA = 77,200 SF  
PAVED AREA = 41,400 SF



**SITE LOCUS MAP**  
SCALE: 1"=2000'

DATE ISSUED = FEBRUARY 17, 2022  
LATEST ISSUE = MARCH 15, 2022

**SHEET INDEX**

NO.	SHEET TITLE	LATEST ISSUE
	LEVEL 1 LOTTING PLAN	JANUARY 31, 2022
EX-1	EXISTING CONDITIONS PLAN	FEBRUARY 3, 2022
C-1	DEMOLITION & EROSION & SEDIMENT CONTROL PLAN	MARCH 15, 2022
C-2	SITE PLAN	MARCH 15, 2022
C-3	GRADING, DRAINAGE & UTILITY PLAN	MARCH 15, 2022
C-4	CONSTRUCTION DETAILS	MARCH 15, 2022
C-5	CONSTRUCTION DETAILS	MARCH 15, 2022
A1.0	LEVEL 1 PLAN	FEBRUARY 17, 2022
A1.5	TRAINING TOWER	FEBRUARY 17, 2022
A4.0	EXTERIOR ELEVATIONS	FEBRUARY 17, 2022
A11.0	PERSPECTIVES	FEBRUARY 17, 2022
L1.1	LANDSCAPE LAYOUT PLAN	MARCH 15, 2022
L1.2	PLANTING & LIGHTING PLAN	MARCH 15, 2022
L1.3	PHOTOMETRIC PLAN	MARCH 15, 2022
L2.1	LANDSCAPE DETAILS	MARCH 15, 2022

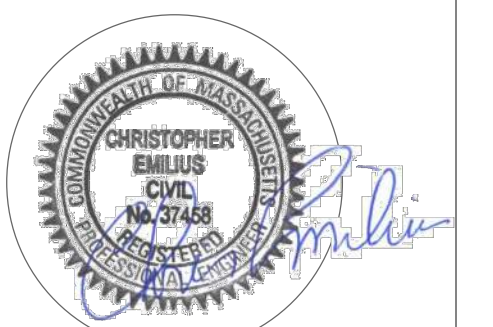
DEVENS ENTERPRISE COMMISSION ENDORSEMENT:

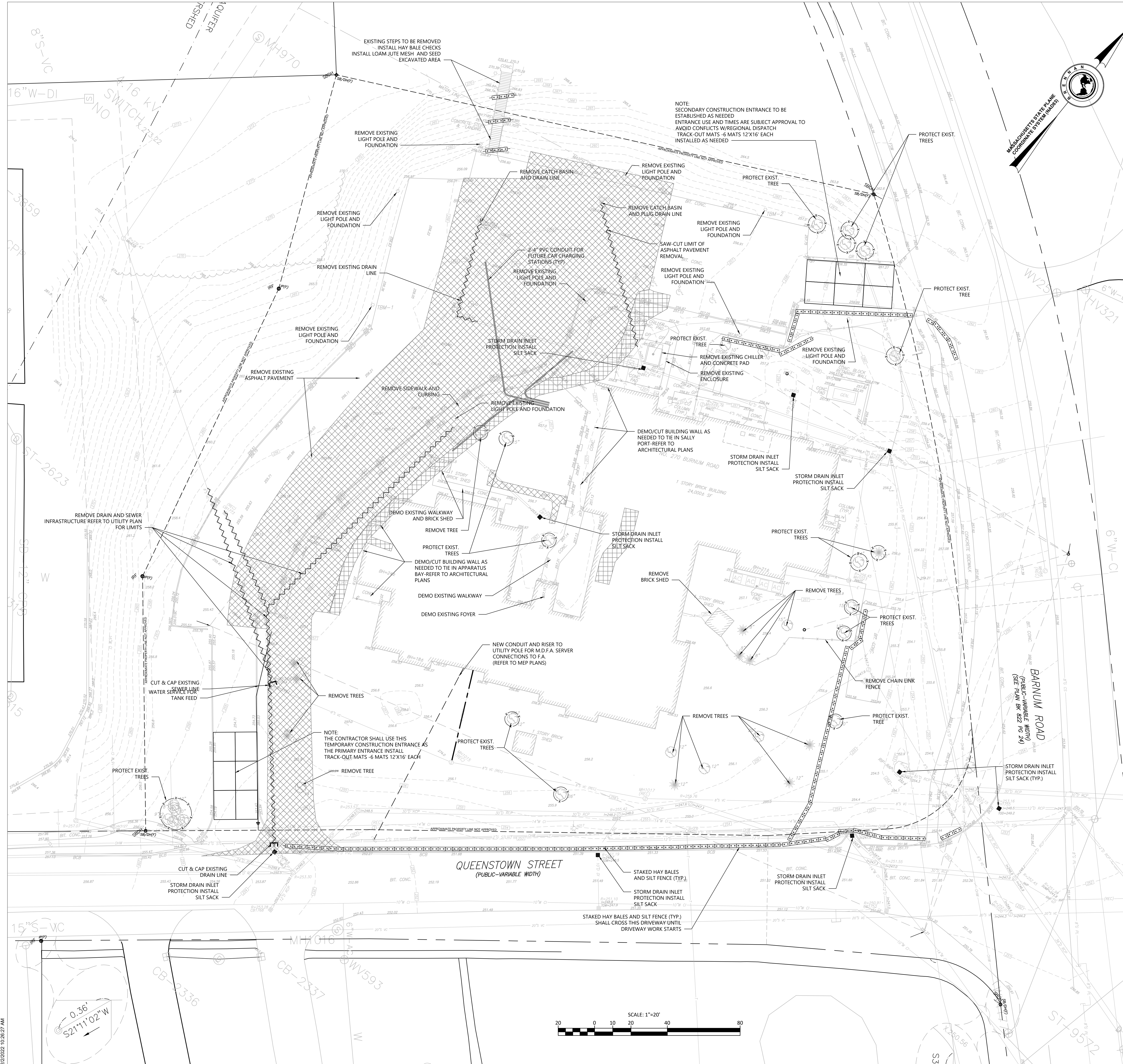
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PREPARED BY:

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CHAIRMAN DATE  
WINTER STREET ARCHITECTS INC  
BRENNAN CONSULTING





- DEC-GENERAL EROSION & SEDIMENTATION CONTROL PLAN NOTES:**
- APPLICANT/CONTRACTOR SHALL BE RESPONSIBLE FOR PHYSICALLY MARKING THE LIMITS OF CONSTRUCTION ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE. SO THAT WORKERS UNDERSTAND THE AREAS TO BE PROTECTED. THE PHYSICAL MARKERS SHALL BE INSPECTED DAILY AND REPAIRED AS NECESSARY THROUGHOUT THE DURATION OF THE PROJECT.
  - PERIMETER SEDIMENT CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE AND MAINTAINED TO CONTAIN SOILS ON-SITE. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST NOT BE DISTURBED UNLESS THE APPLICANT HAS OBTAINED PRIOR APPROVAL FROM THE DEC.
  - MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA AND STREET SWEEPING OF ADJACENT STREETS AND ROADS SHALL BE INCLUDED WHERE NECESSARY.
  - ALL RESOURCE AREAS SHALL BE PROTECTED FROM SEDIMENT.
  - MONITORING AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION SHALL BE REQUIRED. SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES  $\frac{1}{2}$  TO  $\frac{3}{4}$  THE HEIGHT OF THE EROSION CONTROL.
  - DIVERT RUNOFF FROM OFFSITE AND UNDISTURBED AREAS AWAY FROM CONSTRUCTION TO MINIMIZE SOIL EROSION AND SEDIMENTATION ON AND OFF-SITE. TEMPORARILY STABILIZE ALL HIGHLY ERODIBLE SOILS AND SLOPES IMMEDIATELY.
  - LAND DISTURBANCE ACTIVITIES EXCEEDING TWO ACRES IN SIZE SHALL NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES STORMWATER CONTROL TO BE INSTALLED AND EXPOSED SOILS STABILIZED, AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. A CONSTRUCTION PHASING PLAN, INCLUDING EROSION AND SEDIMENT CONTROL PLAN FOR EACH PHASE, SHALL BE SUBMITTED TO THE DEC PRIOR TO ANY CONSTRUCTION ON THE SITE. MASS CLEARINGS AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
  - SOIL STOCKPILES MUST BE STABILIZED OR COVERED AT THE END OF EACH WORKDAY. STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2:1. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
  - DISTURBED AREAS REMAINING IDLE FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED.
  - PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, AN APPROPRIATE TEMPORARY MULCH AND/OR NON-ASPHALTIC SOIL TACKIFIER WITH WINTER RYE SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
  - ANTI-TRACKING PAD(S) SHALL BE CONSTRUCTED AT ALL ENTRANCE/EXIST POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE. DUST SHALL ALSO BE CONTROLLED AT THE SITE.
  - ALL SLOPES STEEPER THAN 3:1 (HV, 33.3%), AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS MUST, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES.
  - TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONSTRUCTION AREAS ASSOCIATED WITH THE PROJECT. SIMILARLY, STABILIZATION MUST BE ESTABLISHED PRIOR TO CONVERTING TEMPORARY SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES. ALL FACILITIES USED FOR TEMPORARY MEASURES SHALL BE CLEANED AND RE-STABILIZED PRIOR TO BEING PUT INTO FINAL OPERATION.
  - ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.

- SITE EROSION & SEDIMENT CONTROL NOTES:**
- GENERAL:
- NO DEMOLITION OR CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT SHALL COMMENCE UNTIL THE FOLLOWING STEPS ARE COMPLETED BY THE CONTRACTOR.
  - THE CONTRACTOR SHALL SUBMIT A STORM WATER POLLUTION PROTECTION PLAN (SWPPP) FOR THE PROJECT SITE. THE PLAN MUST BE APPROVED BY THE DEVENS ENTERPRISE COMMISSION (DEC) OR THEIR DESIGNATED REPRESENTATIVE BEFORE WORK ON THE SITE CAN BEGIN. THE CONTRACTOR'S SWPPP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MASSACHUSETTS AND KNOWLEDGEABLE OF EROSION CONTROL AND DESIGN. THE SWPPP SHALL BE PREPARED IN ACCORDANCE WITH THE (EPA) CONSTRUCTION GENERAL PERMIT (CGP) REQUIREMENTS FOLLOWING THE EPA TEMPLATE FOR CONSTRUCTION STORMWATER POLLUTION PREVENTION PLANS.
  - THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND INSPECTION OF THE EROSION CONTROL DEVICES NOTED ON THIS PLAN AND AS REQUIRED BY THE DEC DESIGNATED REPRESENTATIVE.

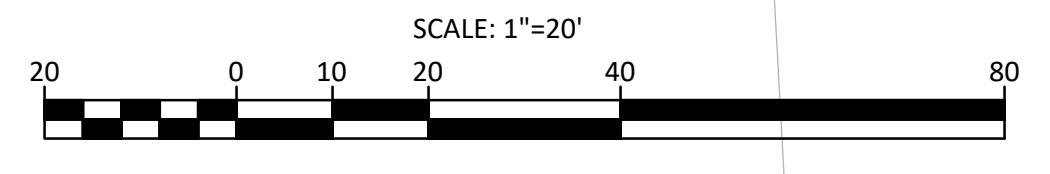
- MAINTENANCE OF EROSION CONTROLS**
- ONCE ALL EROSION CONTROLS ARE IN PLACE AND APPROVED AS NOTED, THE CONTRACTOR SHALL MAINTAIN THE DEVICES TO ENSURE THAT THE DEVICES ARE FUNCTIONING AS DESIGNED.
  - THE CONTRACTOR'S MAINTENANCE SHALL INCLUDE PERIODIC CLEANING/REMOVING ACCUMULATED SILTS BUILT UP IN CATCH BASIN SILT SACKS, ALONG THE EROSION CONTROL SEDIMENT BARRIERS, AND IN ALL OTHER PLACES WHERE THE SILT COULD OVERTOP OR CLOG SEDIMENTATION DEVICES.
  - THE CONTRACTOR SHALL DESIGNATE FIELD PERSONNEL TO PERFORM INSPECTIONS OF ALL SEDIMENTATION DEVICES ON A WEEKLY BASIS AND BEFORE AND AFTER A 1/2" INCH STORM EVENT. THESE INSPECTIONS SHALL BE DOCUMENTED WITH SITE PHOTOGRAPHS AND REPORTS SUBMITTED TO THE DEC REPRESENTATIVE.

- TRACK-OUT MATS AT SITE ENTRANCES AND ROAD MAINTENANCE:**
- THE CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION WORK ON SITE UNTIL ALL TRACK-OUT MATS ARE IN PLACE AND INSPECTED. THE TRACK-OUT MATS SHALL BE KEPT FREE OF ACCUMULATED DIRT AND SUCH ACCUMULATION SHALL BE WASHED DOWN BY THE CONTRACTOR PERIODICALLY SO AS TO PREVENT THE LOOSE MATERIAL FROM BEING TRACKED OUT ONTO THE ROADWAY.
  - THE CONTRACTOR SHALL SWEEP ROADWAYS THAT HAVE BEEN FOULED BY TRACKED OUT EXCAVATED MATERIALS OR ANY OTHER CONSTRUCTION RELATED DEBRIS AT HIS/HER OWN EXPENSE. THE SWEEPERS USED SHALL HAVE WATER NOZZLE SPRAYERS TO ELIMINATE DUST. THE DEC REPRESENTATIVE WILL REQUEST/REQUIRE THAT THE CONTRACTOR CLEAN OFF ROADWAY SURFACES DAY TO DAY IF THEY DEEM NECESSARY TO MINIMIZE DUST AND DEBRIS THAT HAVE ACCUMULATED IN THE ROAD FROM THE SITE. WHERE NEW ENTRANCES ARE BEING INSTALLED OR WIDENED, THE CONTRACTOR SHALL INSTALL TRACK-OUT MATS BEFORE THE PARKING LOT EXCAVATION WORK STARTS.

- SITE DUST CONTROL REQUIREMENTS**
- THE CONTRACTOR SHALL MITIGATE ALL DEMOLITION AND CONSTRUCTION DUST GENERATED ON THE PROJECT SITE REGARDLESS OF THE ACTIVITY BEING PERFORMED.
  - THE CONTRACTOR SHALL EMPLOY TECHNIQUES SUCH AS WET SWEEPING, WATERING DOWN WITH HOSES AND PREEMPTIVE CLEANING TO MITIGATE DUST GENERATION FROM ALL OPERATIONS.
  - SAW CUTTING SHALL BE DONE USING SAWS THAT ARE EQUIPPED WITH SPRAY ATTACHMENTS THAT WILL ADEQUATELY DEBRIS GENERATED FROM CUTTING FROM BECOMING AIR-BORN.

- HOURS OF OPERATION REQUIREMENTS**
- HOURS OF OPERATION FOR EXCAVATION, DEMOLITION AND OTHER SITE WORK ACTIVITIES AND GENERAL BUILDING ACTIVITIES, THE CONTRACTORS DAILY WORK HOURS SHALL BE RESTRICTED TO STARTING AT 7:00 AM THRU 5:00 PM, MONDAY THRU FRIDAY.

- EQUIPMENT NOISE AND VIBRATION CONTROL**
- ALL VEHICLES AND EQUIPMENT USED ON THE PROJECT BY THE CONTRACTOR OR ANY SUB-CONTRACTOR INCLUDING OWNED, OPERATED AND RENTED VEHICLES OR EQUIPMENT INCLUDING VEHICLES OWNED BY EMPLOYEES SHALL HAVE MUFFLERS TO DAMPEN THE EXHAUST SOUND TO NOT MORE THAN 80 DECIBELS.
  - DUMP TRUCKS AND DELIVERY TRUCKS ARE FORBIDDEN FROM USING JAKE BRAKES OR EXHAUST BRAKING SYSTEMS THAT PRODUCE LOUD NOISE OR VIBRATIONS.
  - PAVEMENT BREAKING HAMMERS SHALL NOT BE USED FOR EXTENDED PERIODS OF TIME. ALL EXISTING PAVEMENT THAT NEEDS TO BE NEATLY CUT FOR MEETING NEW PAVEMENT, INSTALL CURBING OR FOR UTILITY TRENCHES SHALL BE CUT BY WET SAW. EXCAVATION EQUIPMENT SHALL BE MUFFLED AND IN GOOD REPAIR SO AS TO ELIMINATE/REDUCE EXCESS NOISE AND VIBRATIONS.



CHAIRMAN DATE  
 WINTER STREET ARCHITECTS INC  
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**DEVENS PUBLIC SAFETY BUILDING**  
 270 Barnum Road  
 Devens, Massachusetts

Project Number: 4143.0000

**DEC UNIFIED PERMITTING SET**

Date: 15 MARCH 2022

Issued

NO.	DESCRIPTION	DATE

**DEMOLITION & EROSION & SEDIMENTATION CONTROL PLAN**

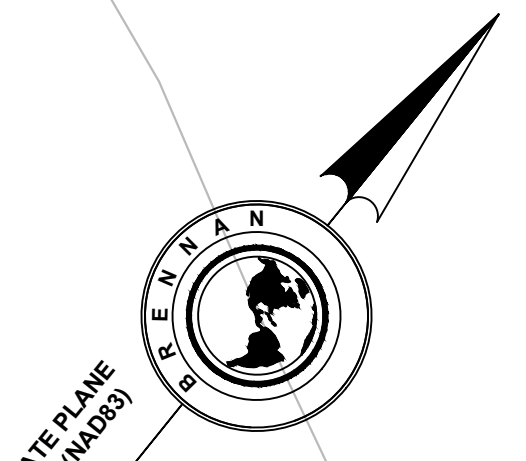
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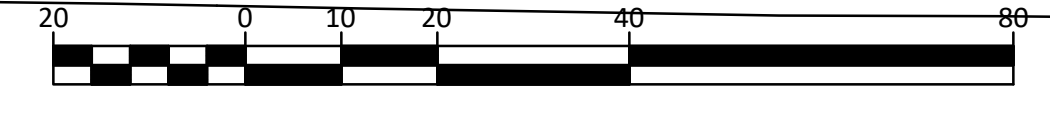


176 JACKSON ROAD  
 W.C.R.D. BK 52969 PG 001  
 SEE PLAN BK 910 PG 031  
 (LOT B-4)

SIGN SUMMARY



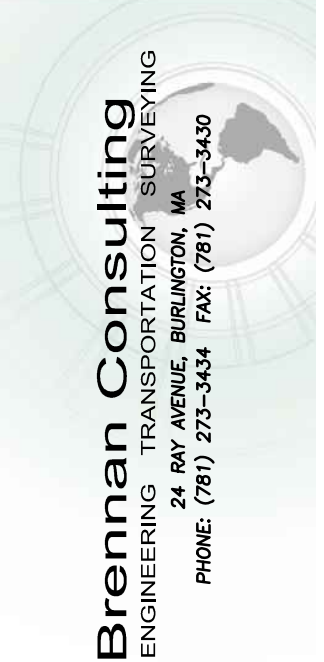
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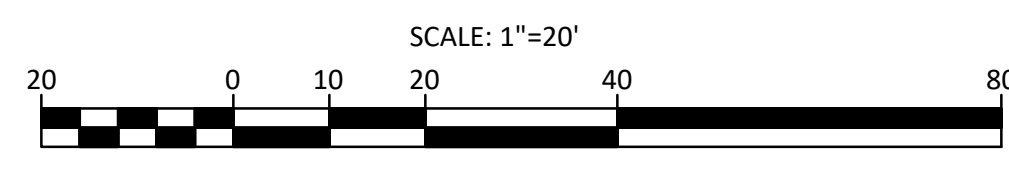
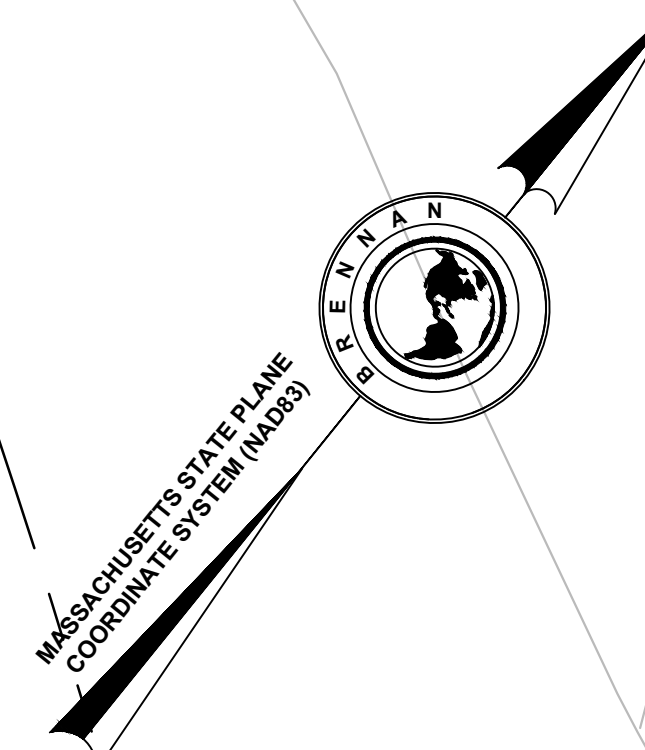
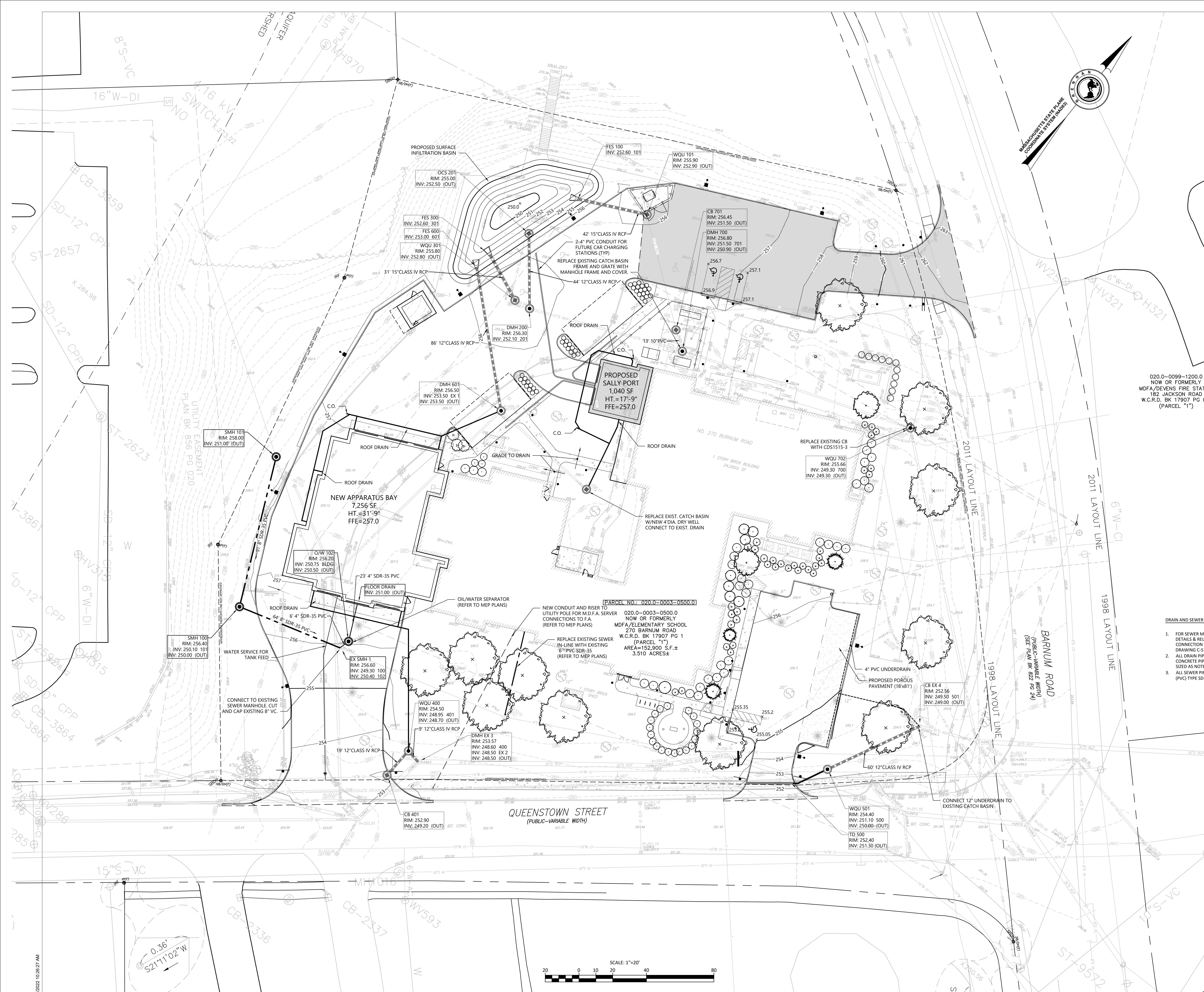
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 BRENNAN CONSULTING



**SITE PLAN**



020.0-0099-1200.0  
 NOW OR FORMERLY  
 MDFA/DEVENS FIRE STATION  
 182 JACKSON ROAD  
 W.C.R.D. BK 17907 PG 001  
 (PARCEL "1")

**DRAIN AND SEWER MATERIALS NOTES:**

1. FOR SEWER MANHOLE DETAILS, DRAIN MANHOLE DETAILS & RELATED DRAIN STRUCTURES, AND PIPE CONNECTION AND BEDDING DETAILS REFER TO DRAWING C-5.
2. ALL DRAIN PIPES SHALL BE CLASS IV REINFORCED CONCRETE PIPE WITH RUBBER GASKET JOINTS SIZED AS NOTED ON THE DRAWING.
3. ALL SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) TYPE SDR-35 WITH PUSH-ON JOINTS.

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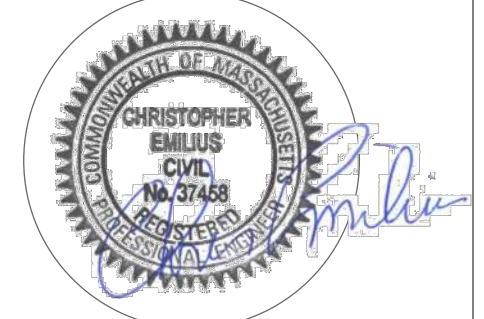
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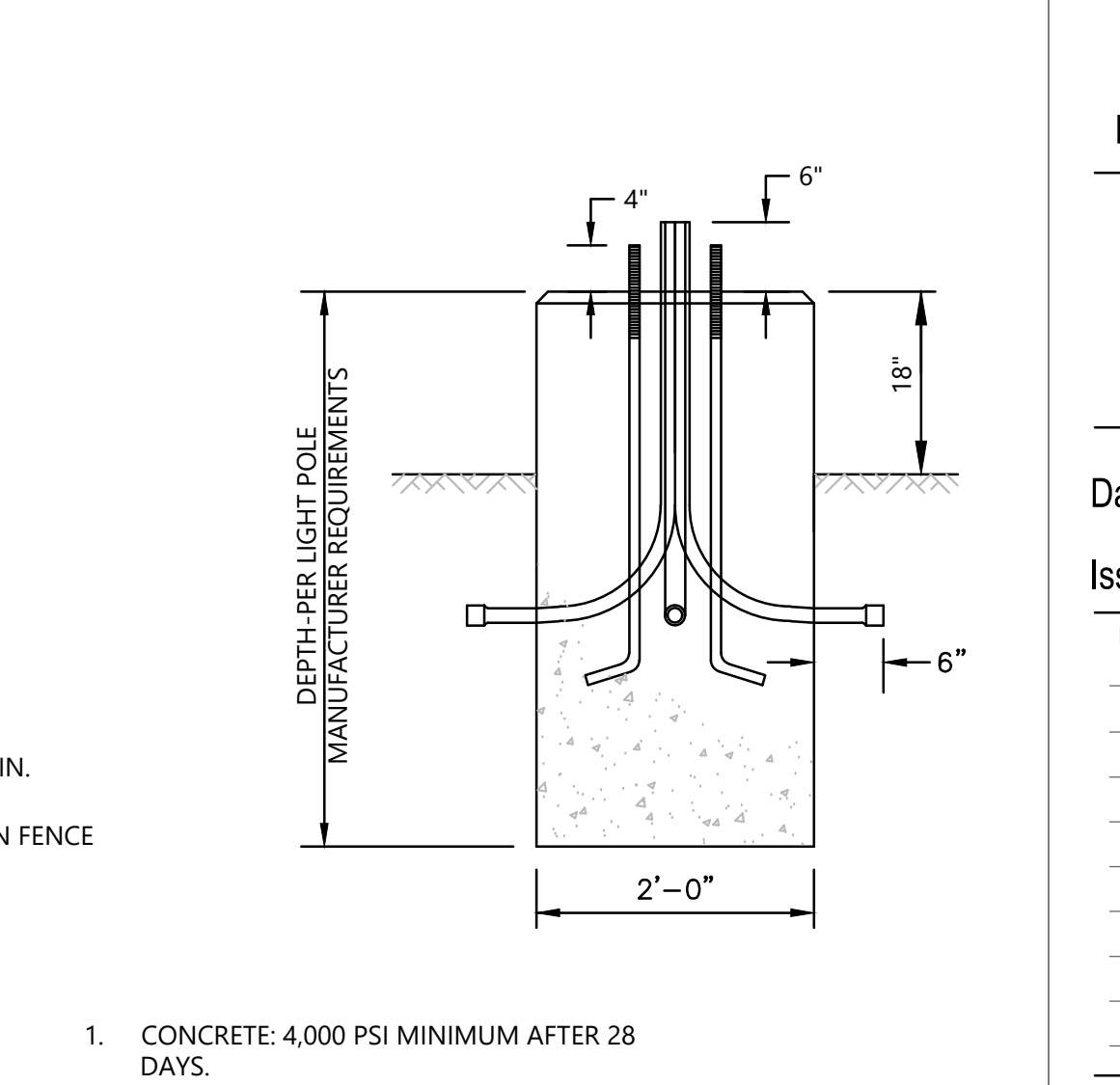
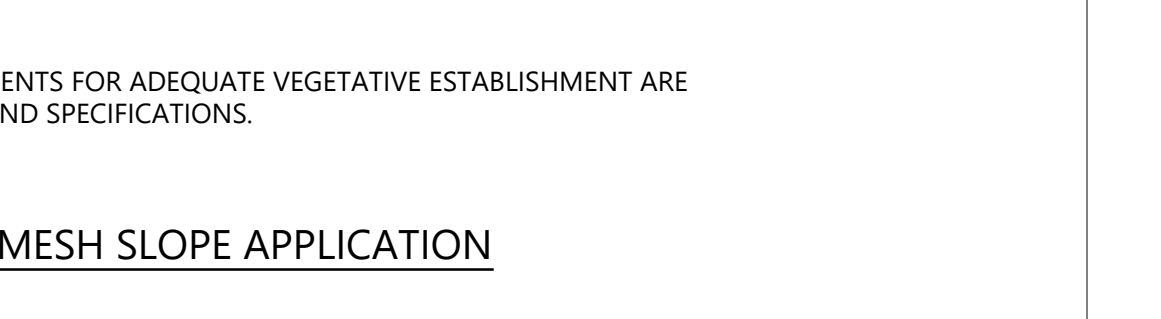
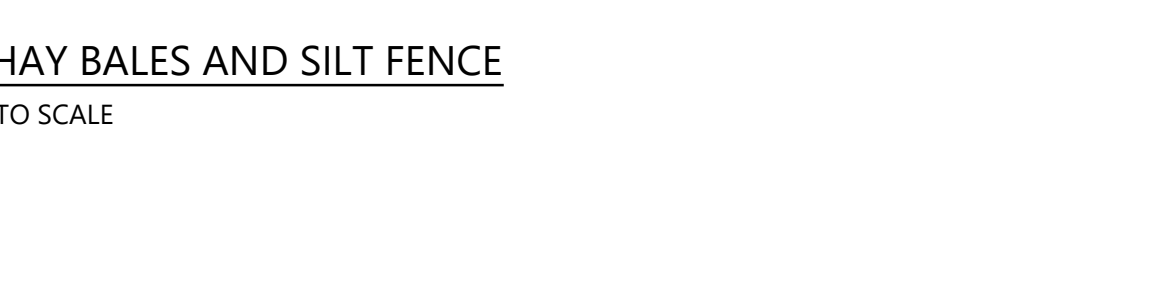
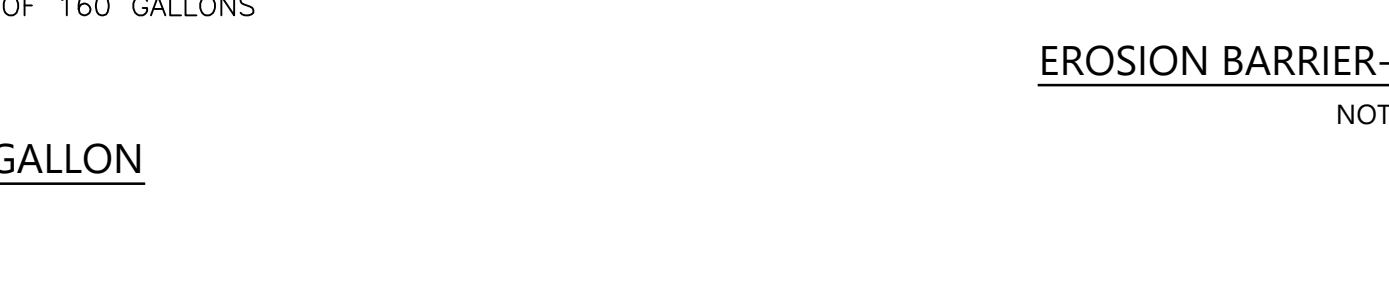
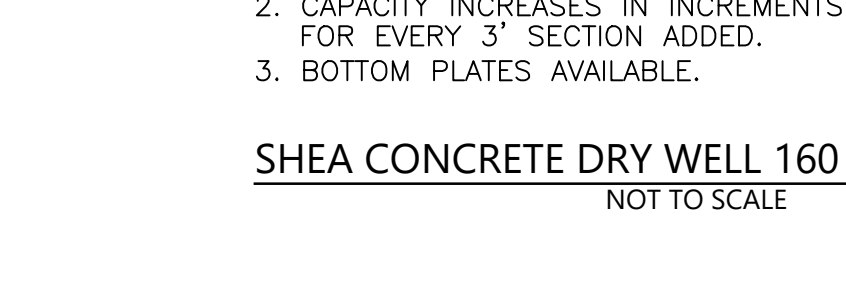
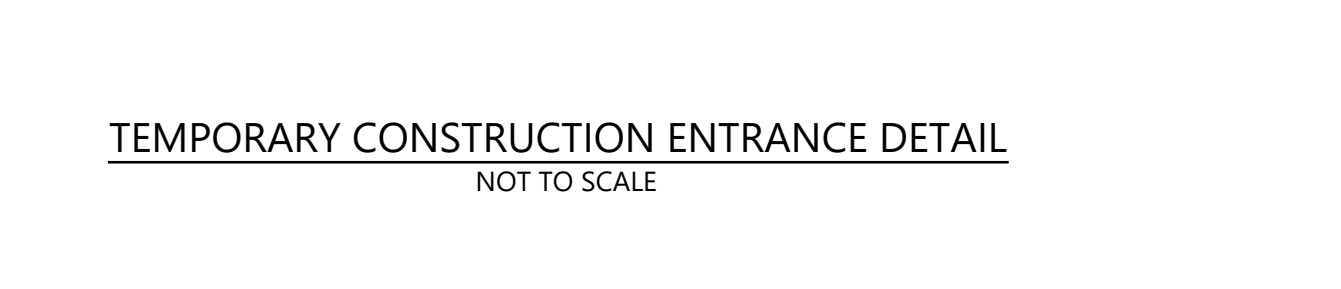
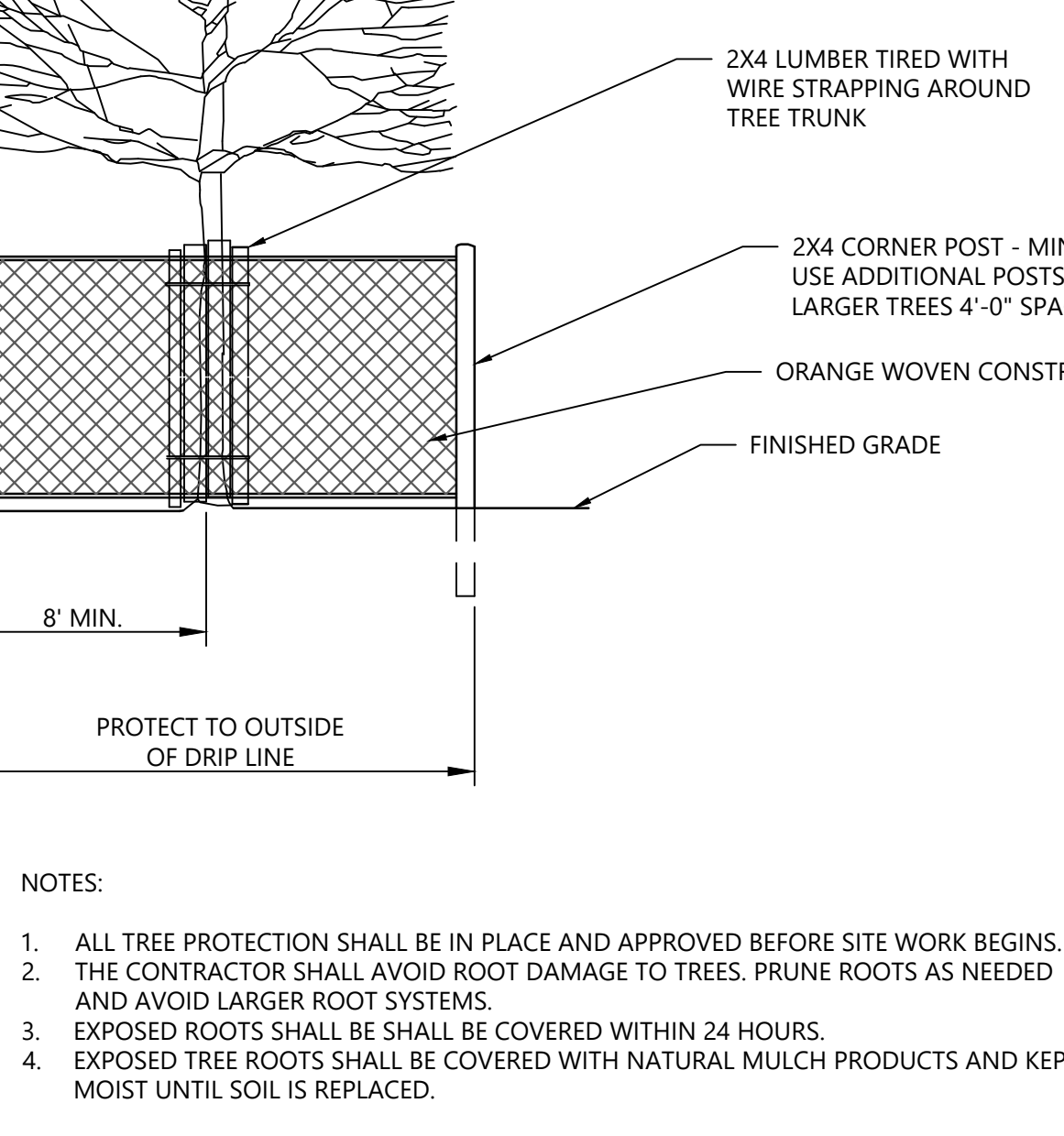
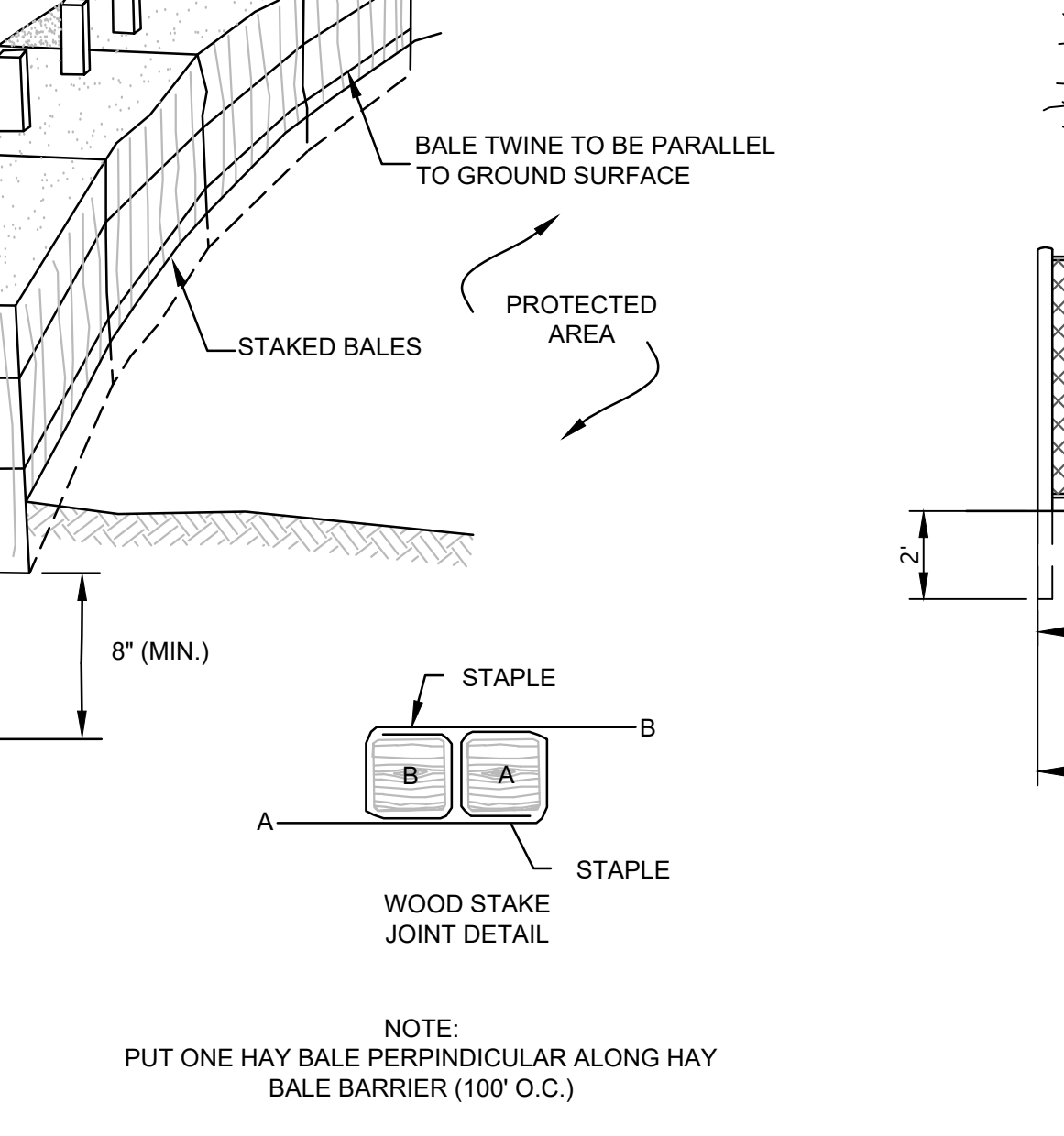
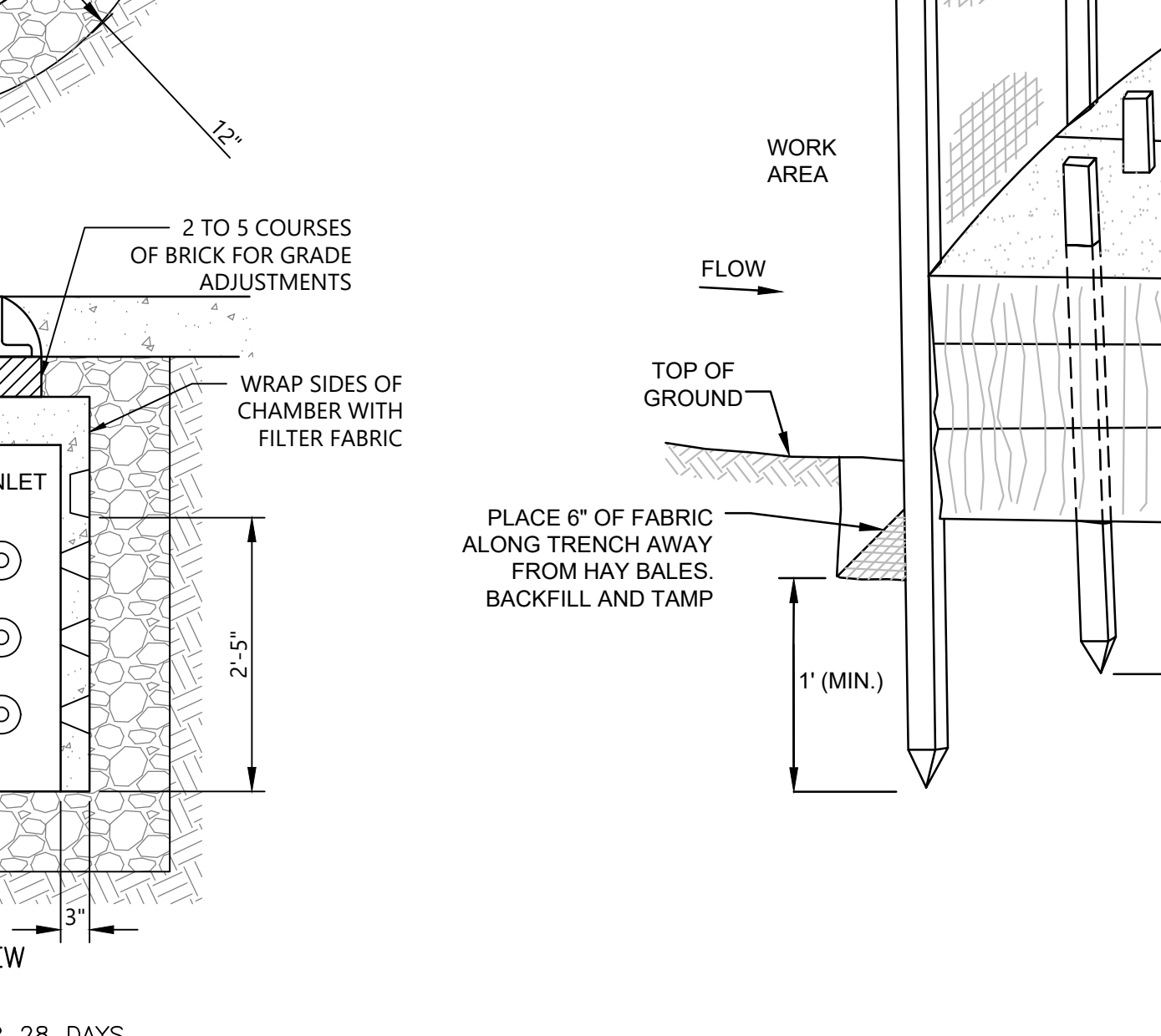
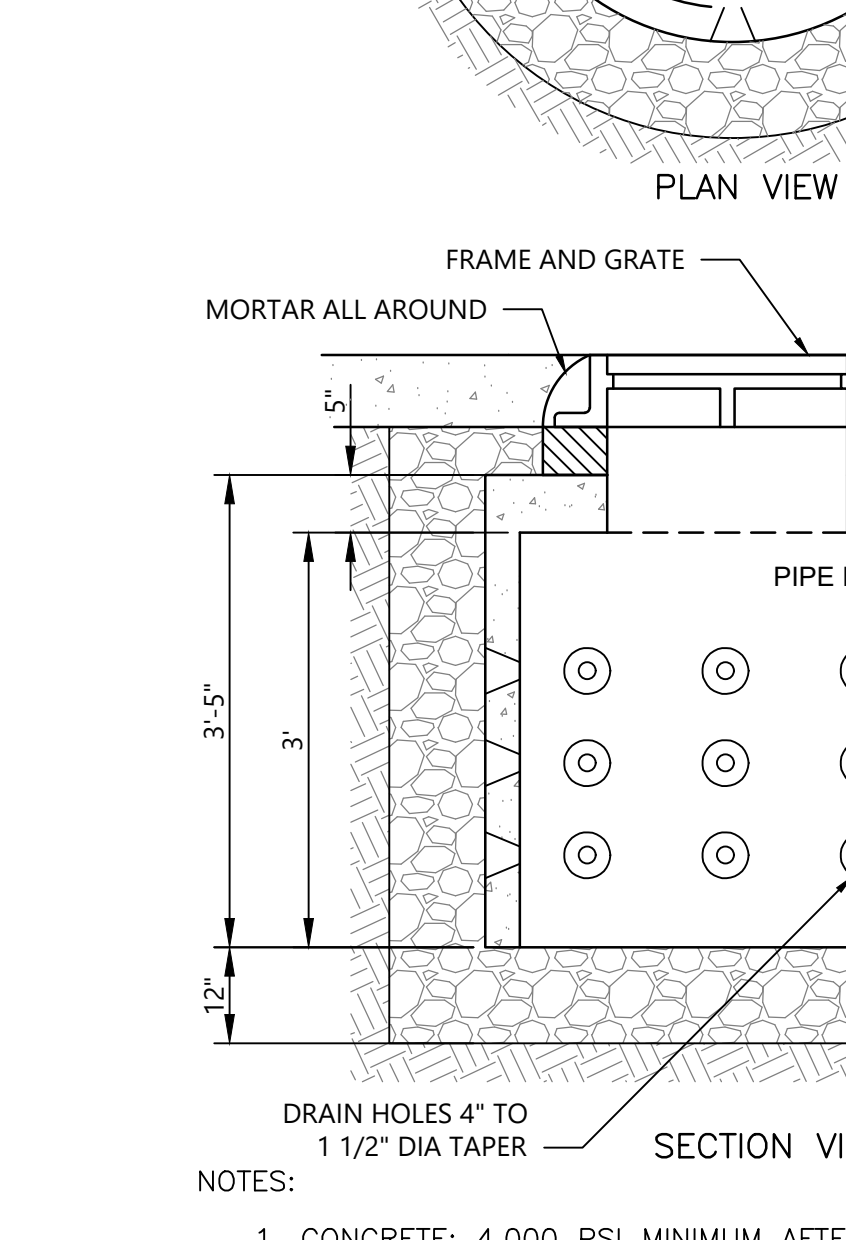
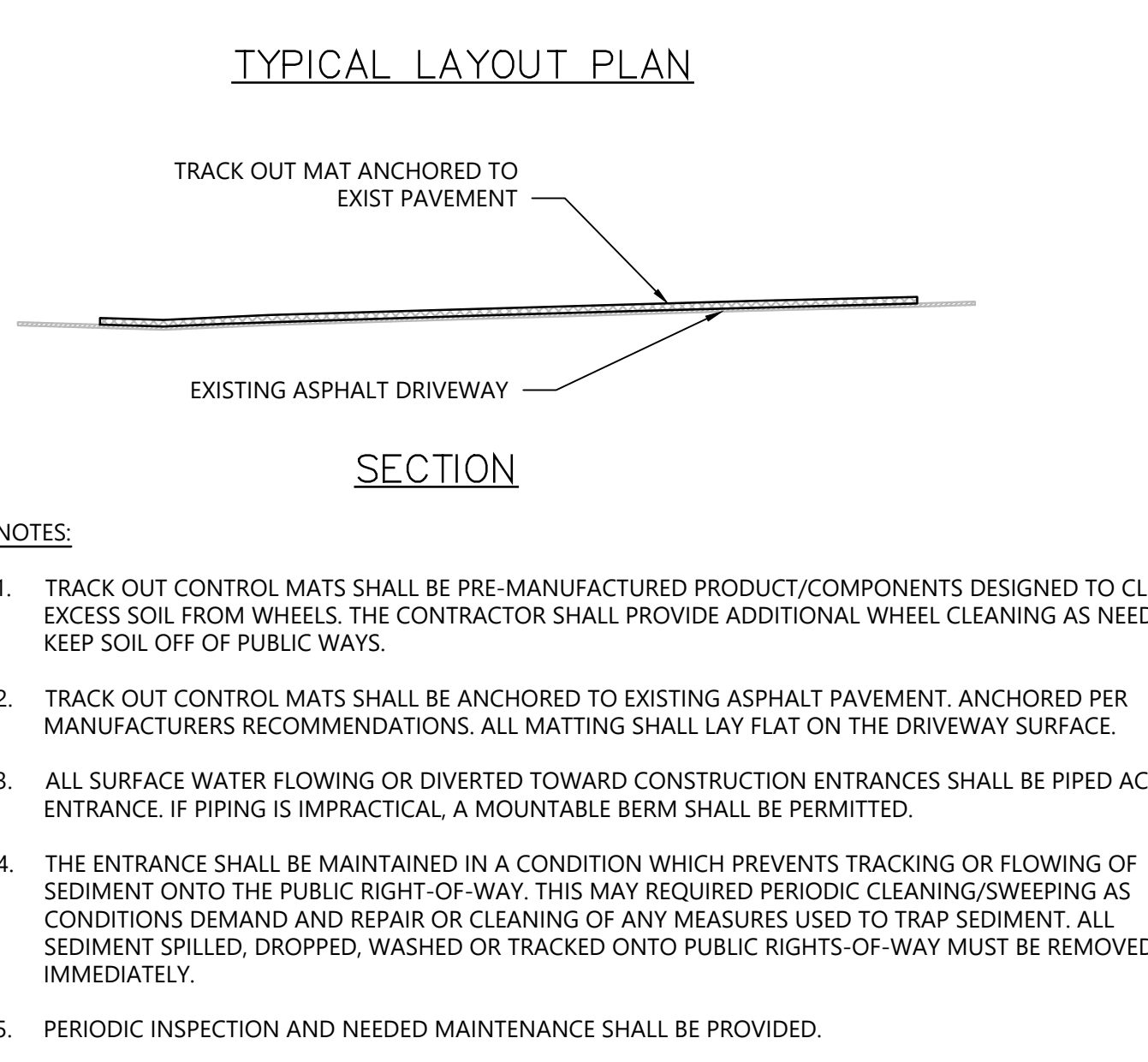
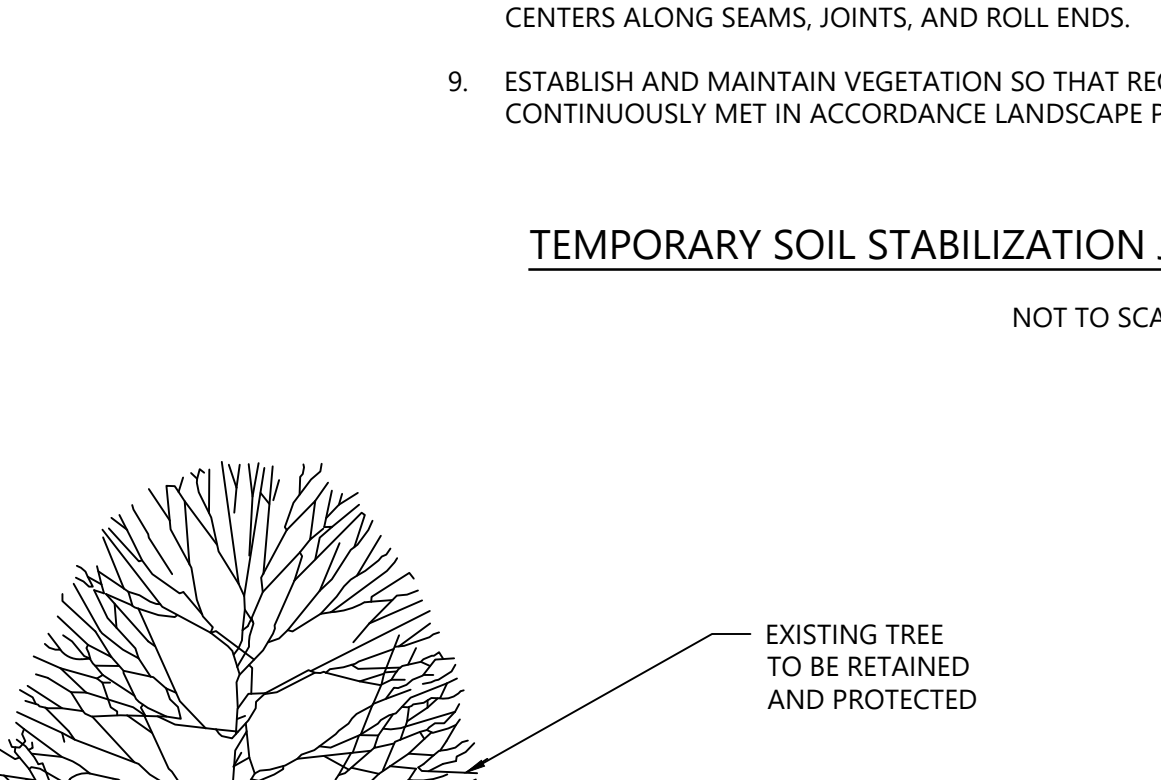
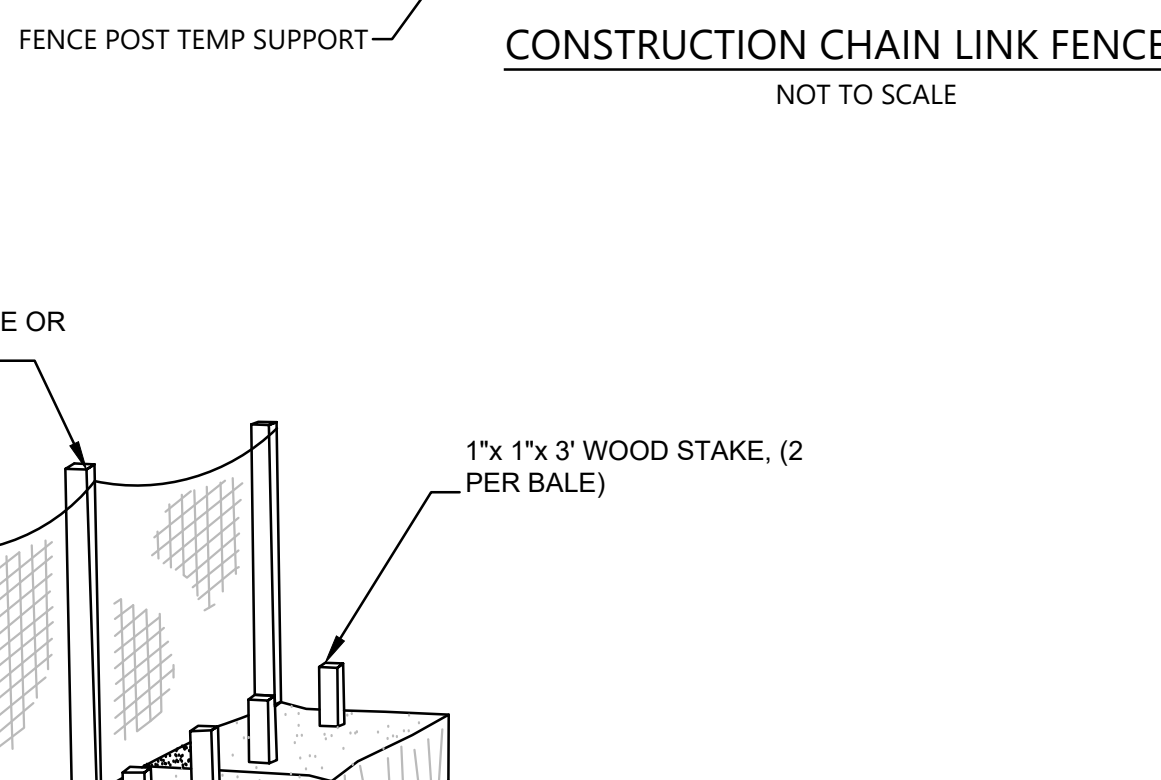
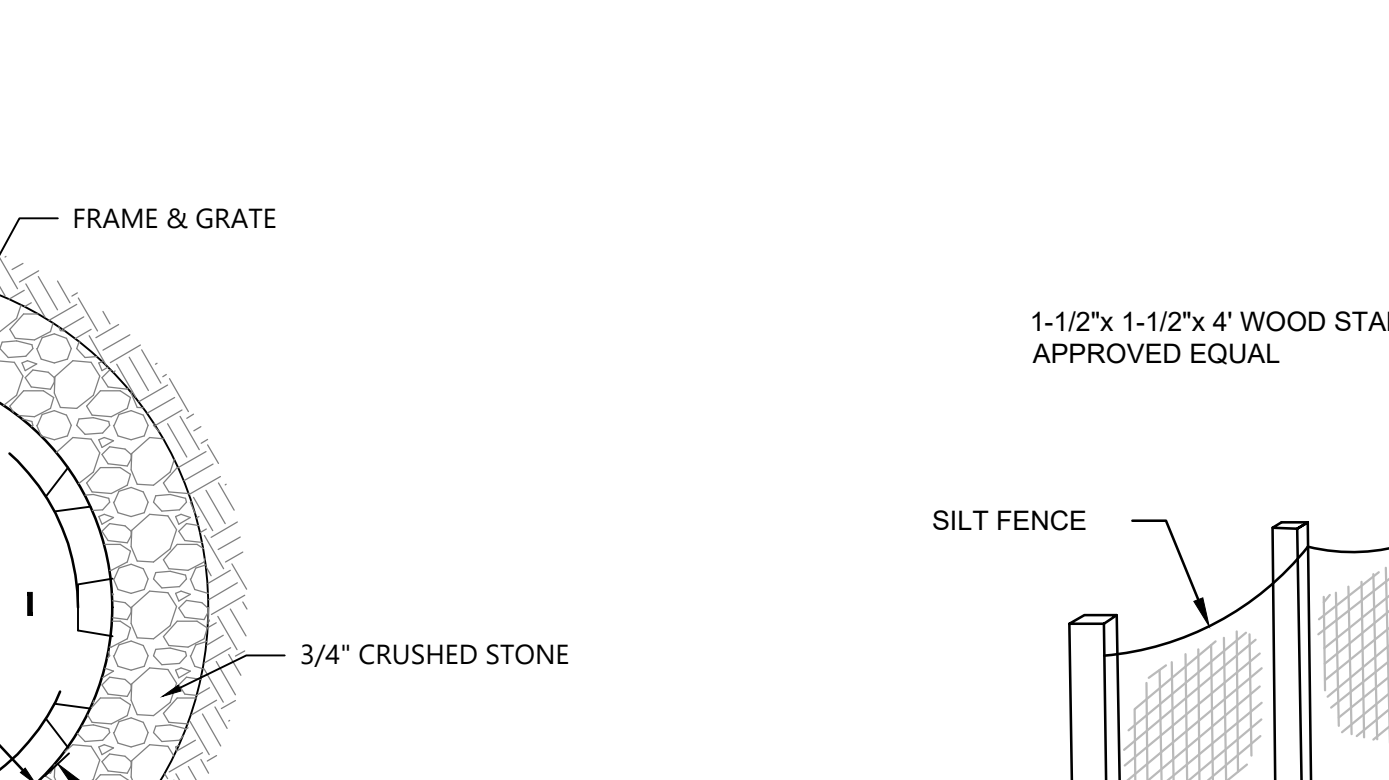
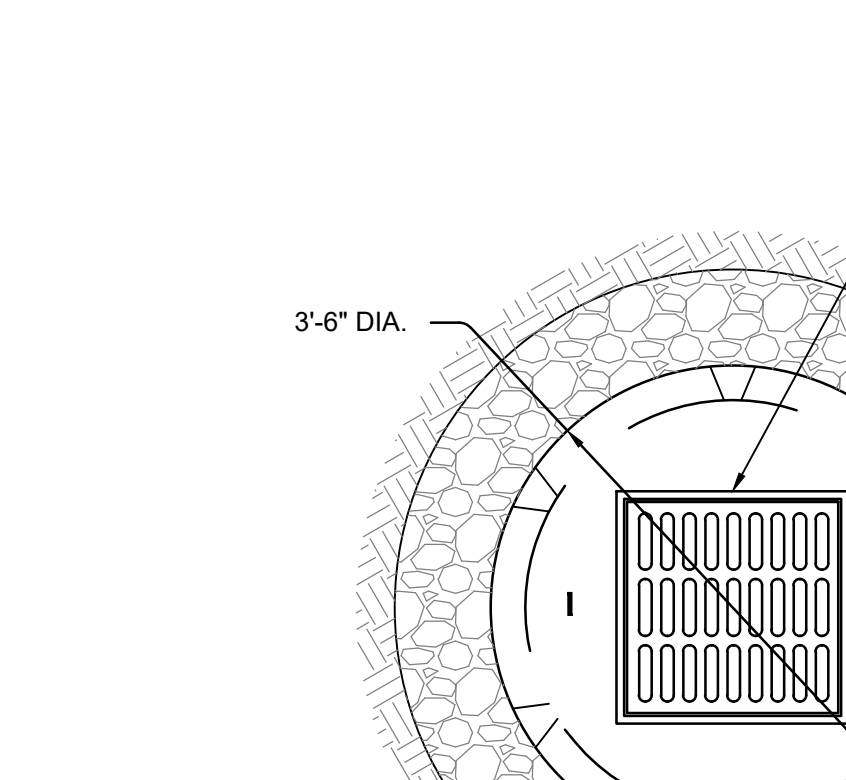
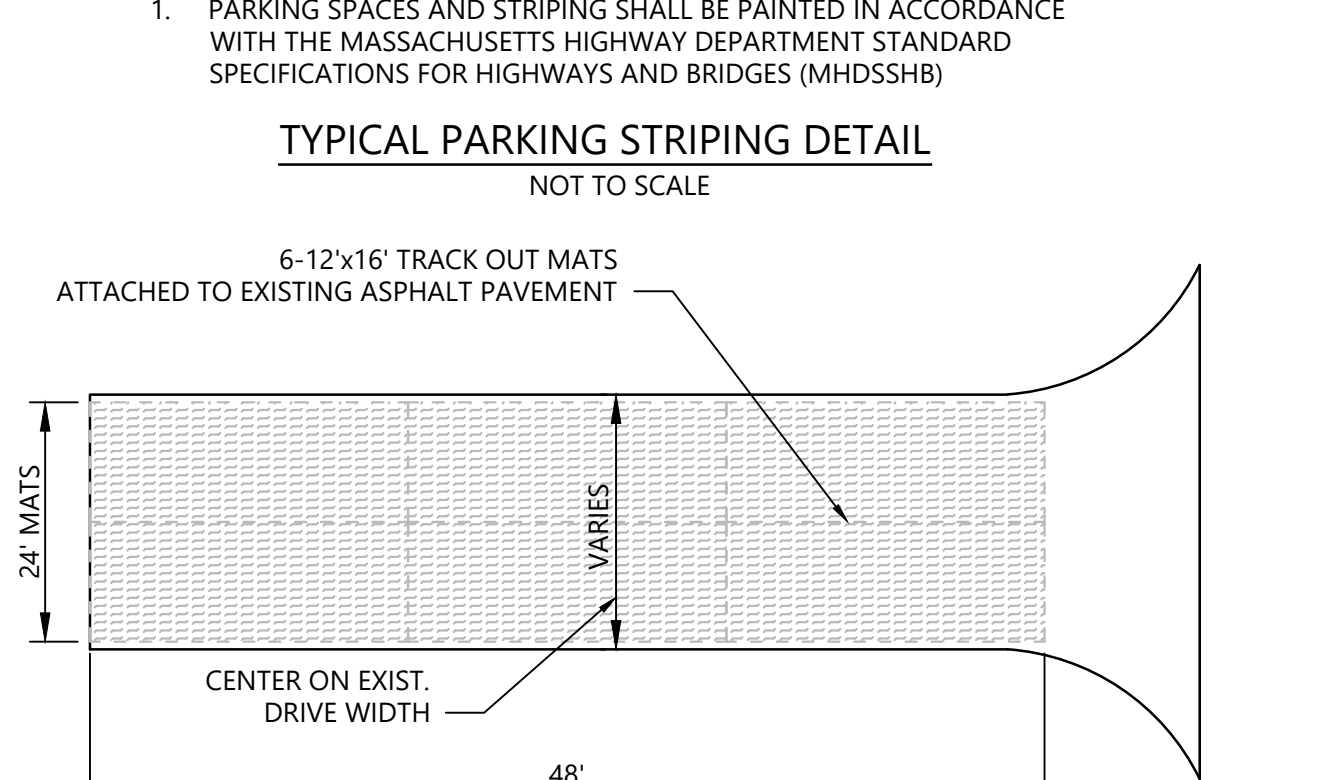
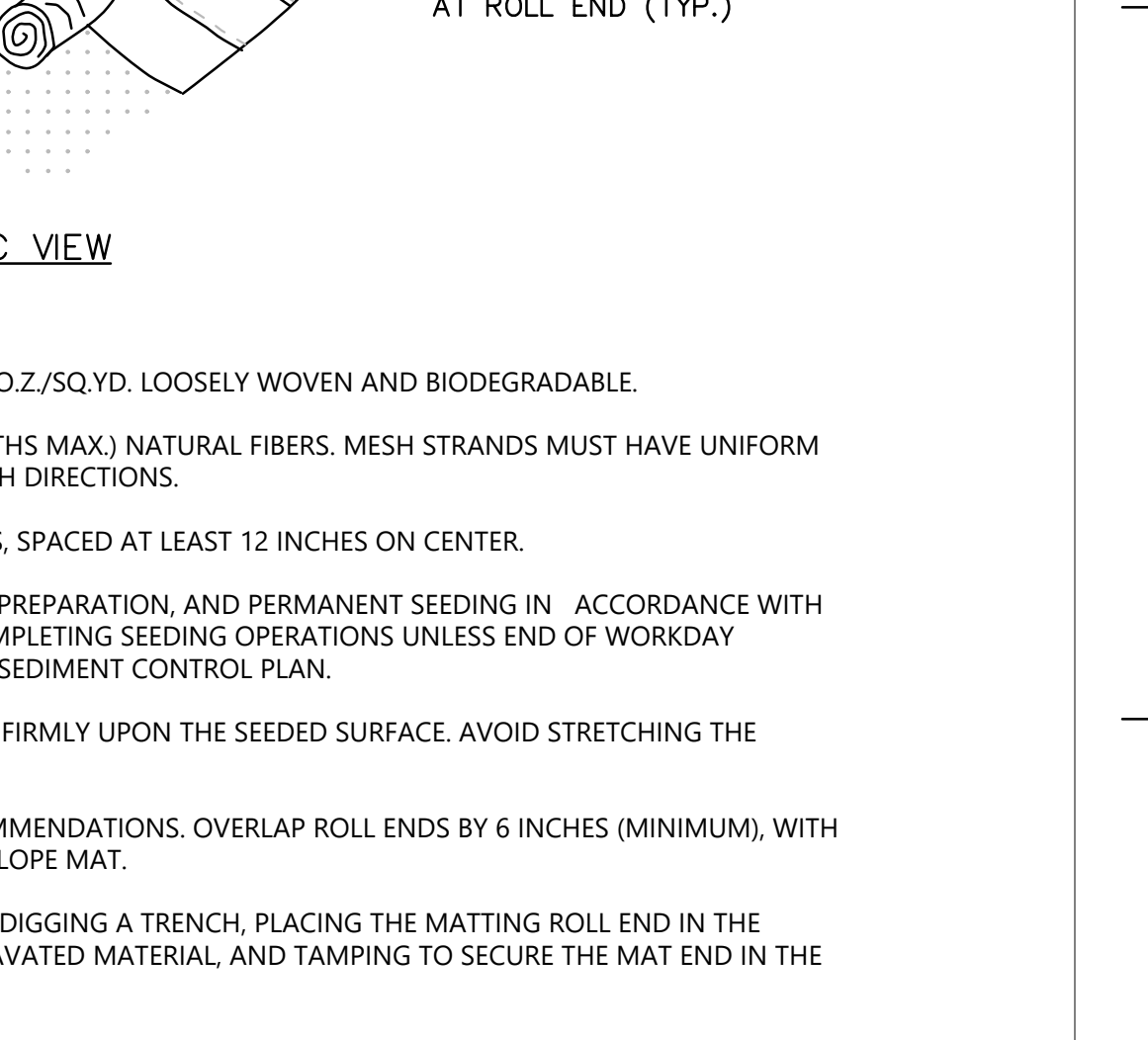
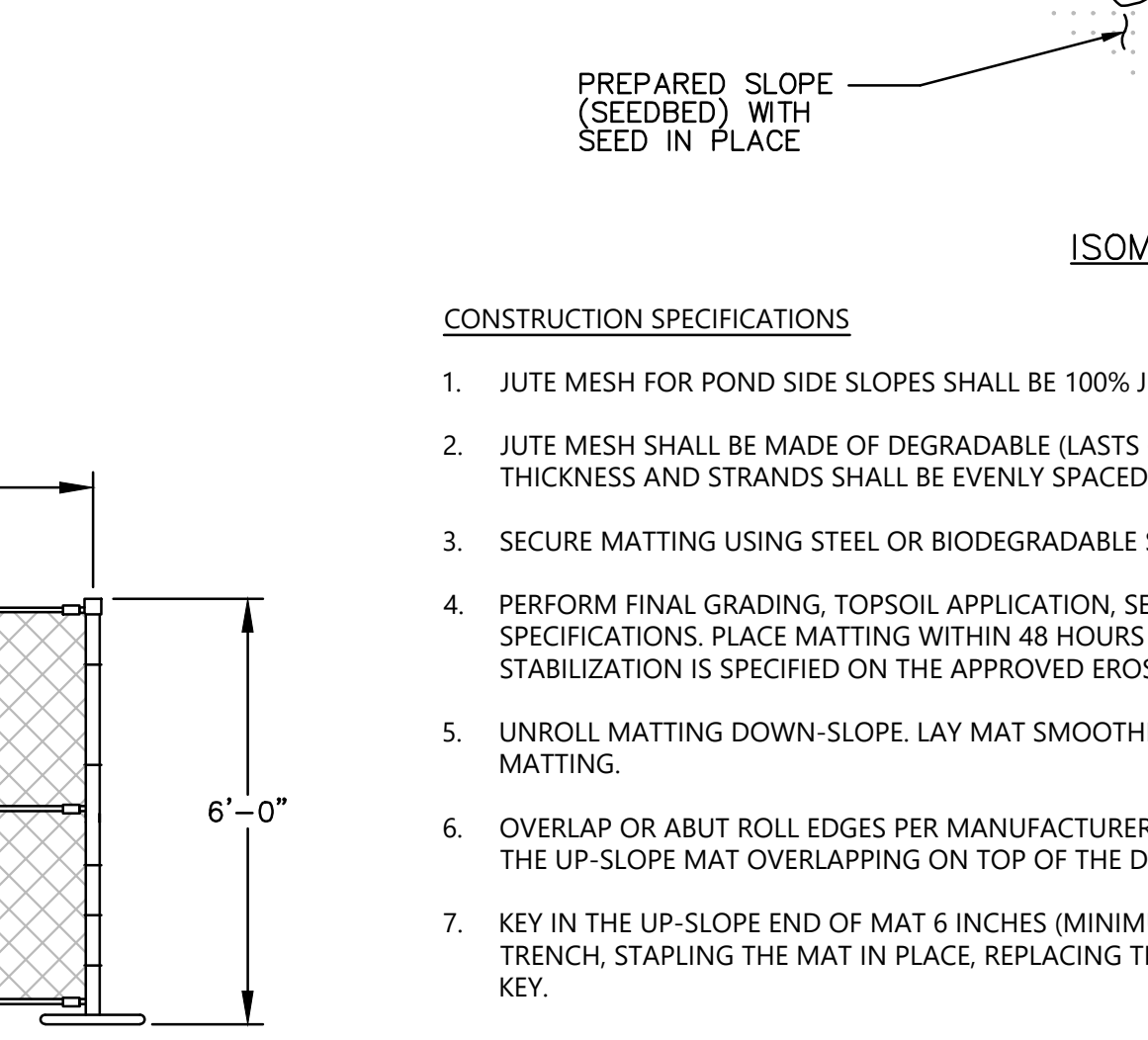
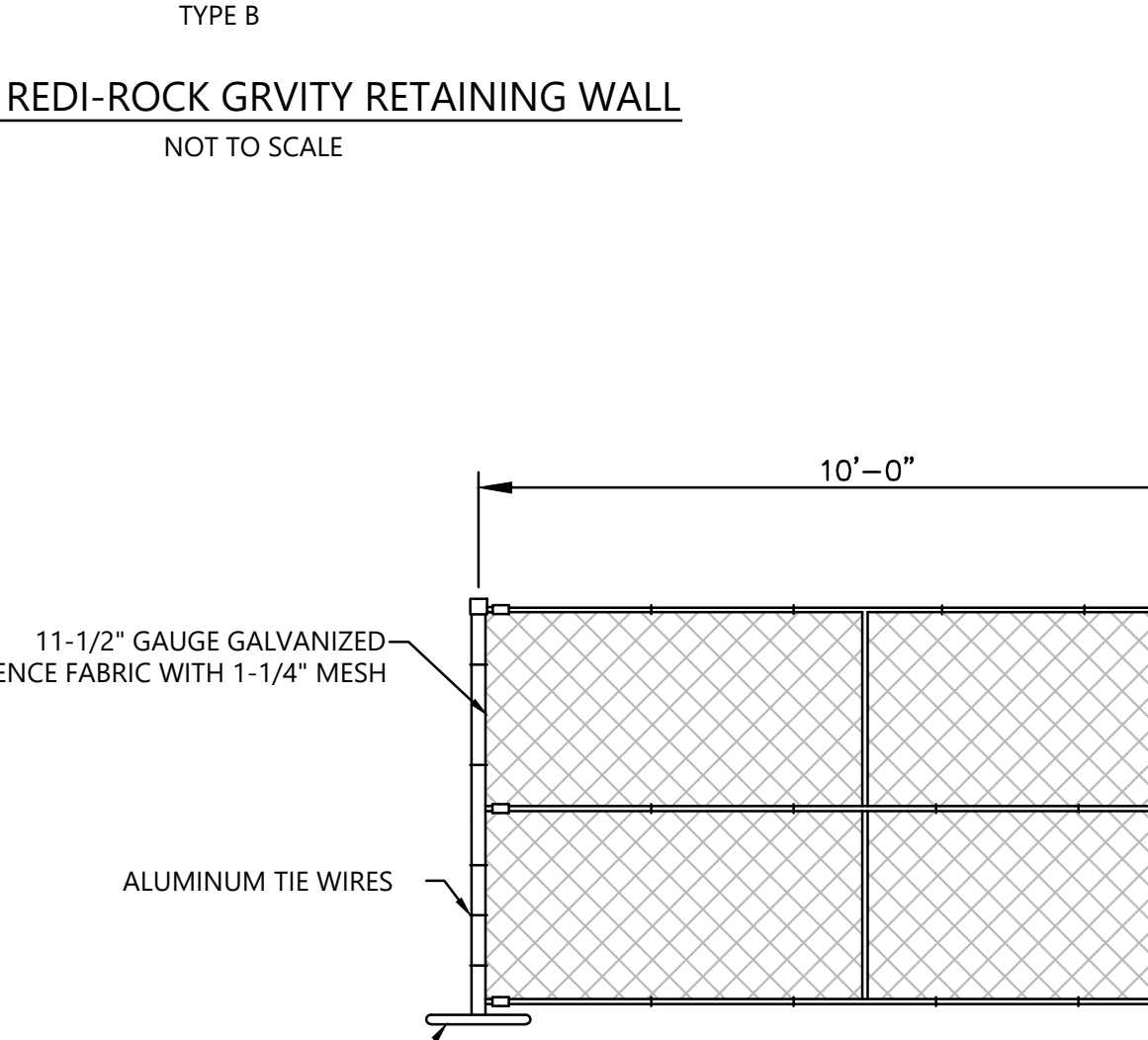
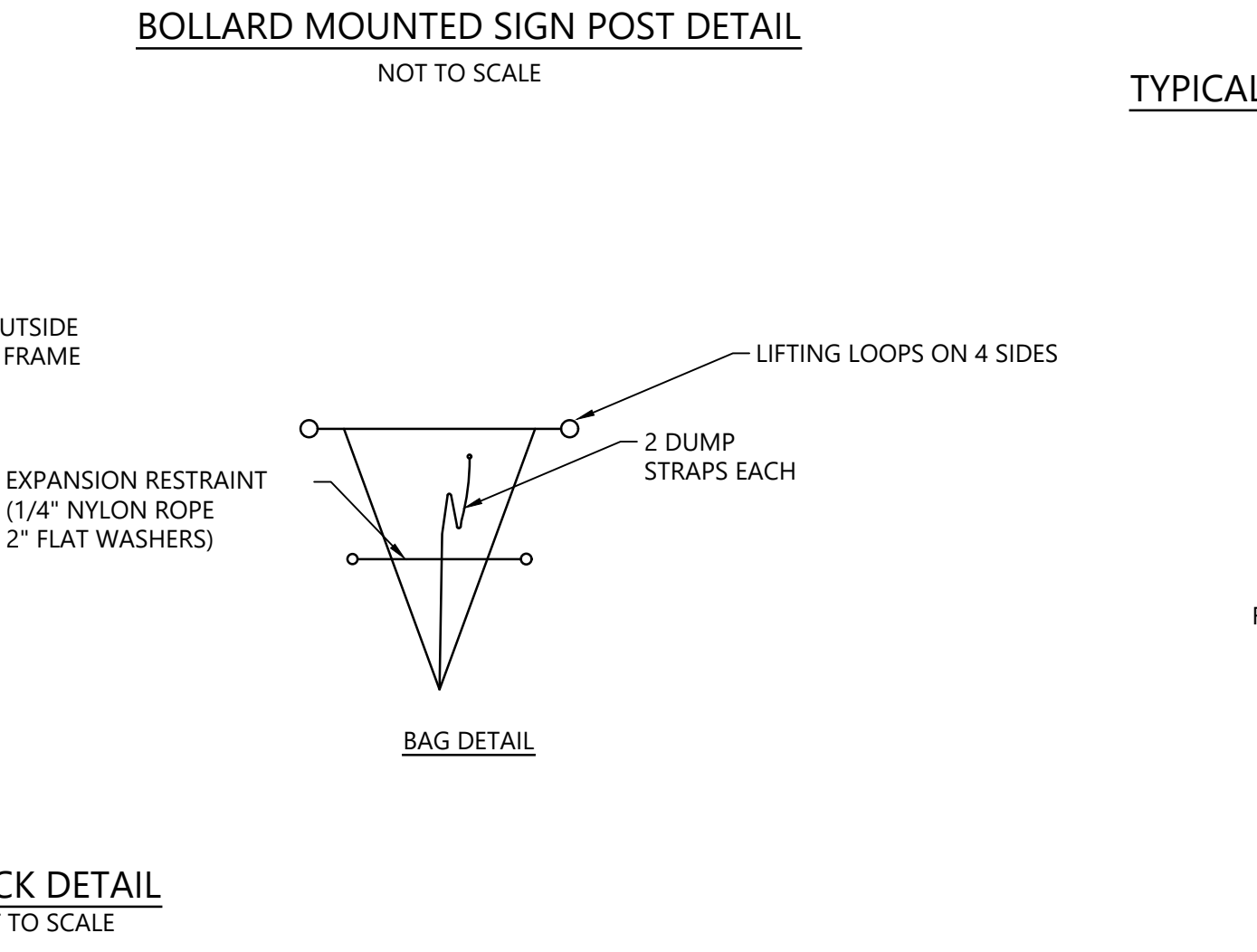
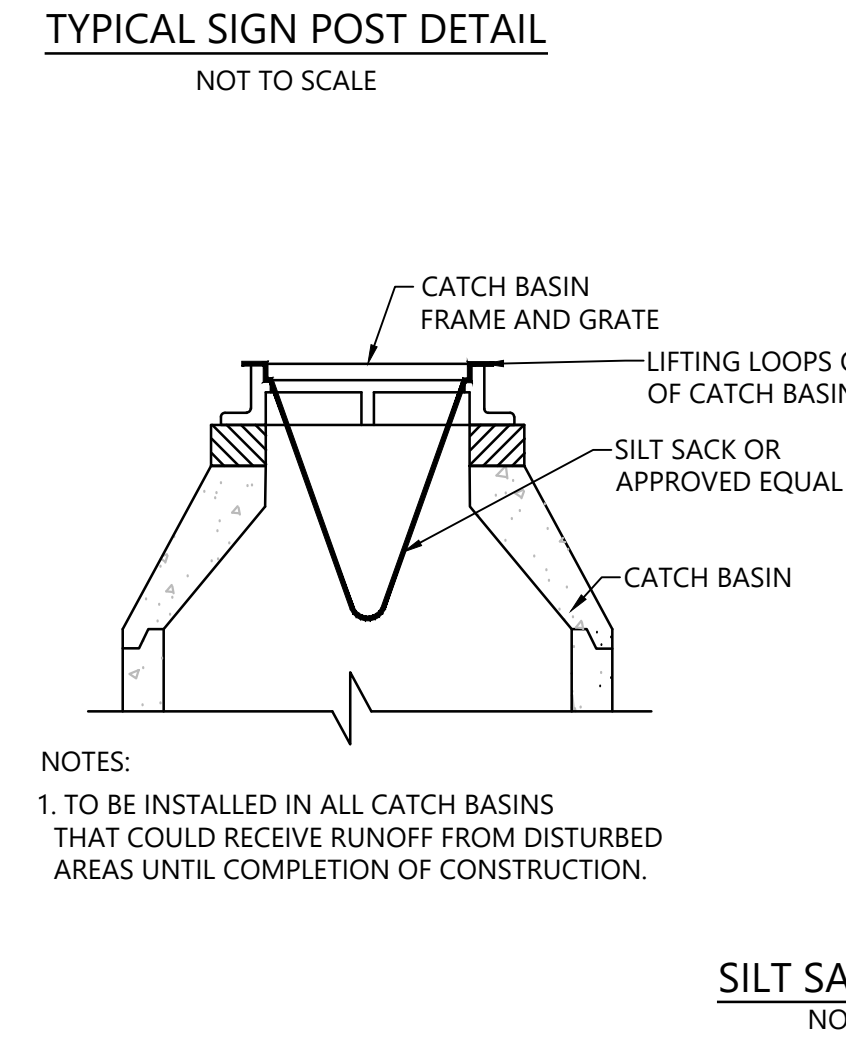
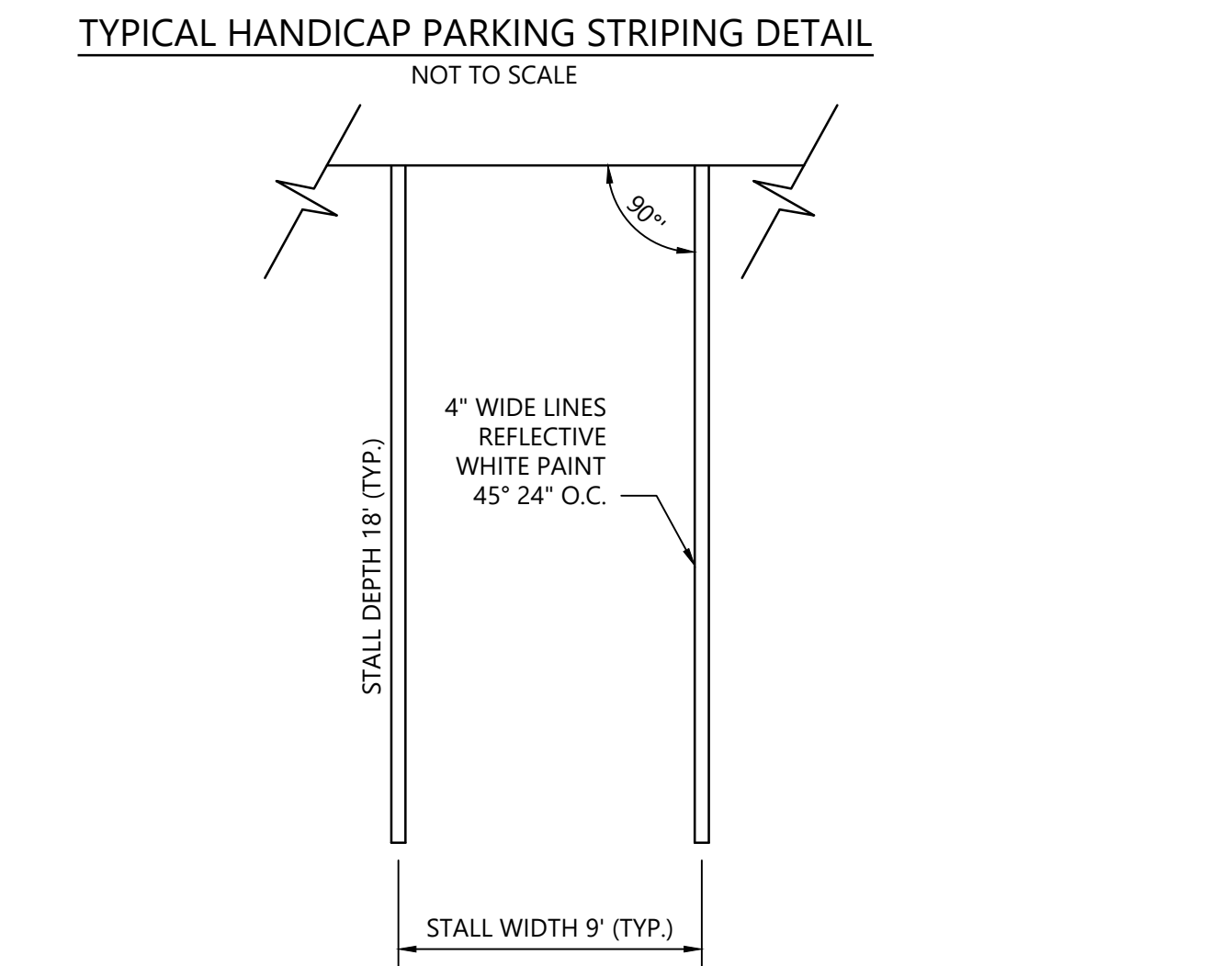
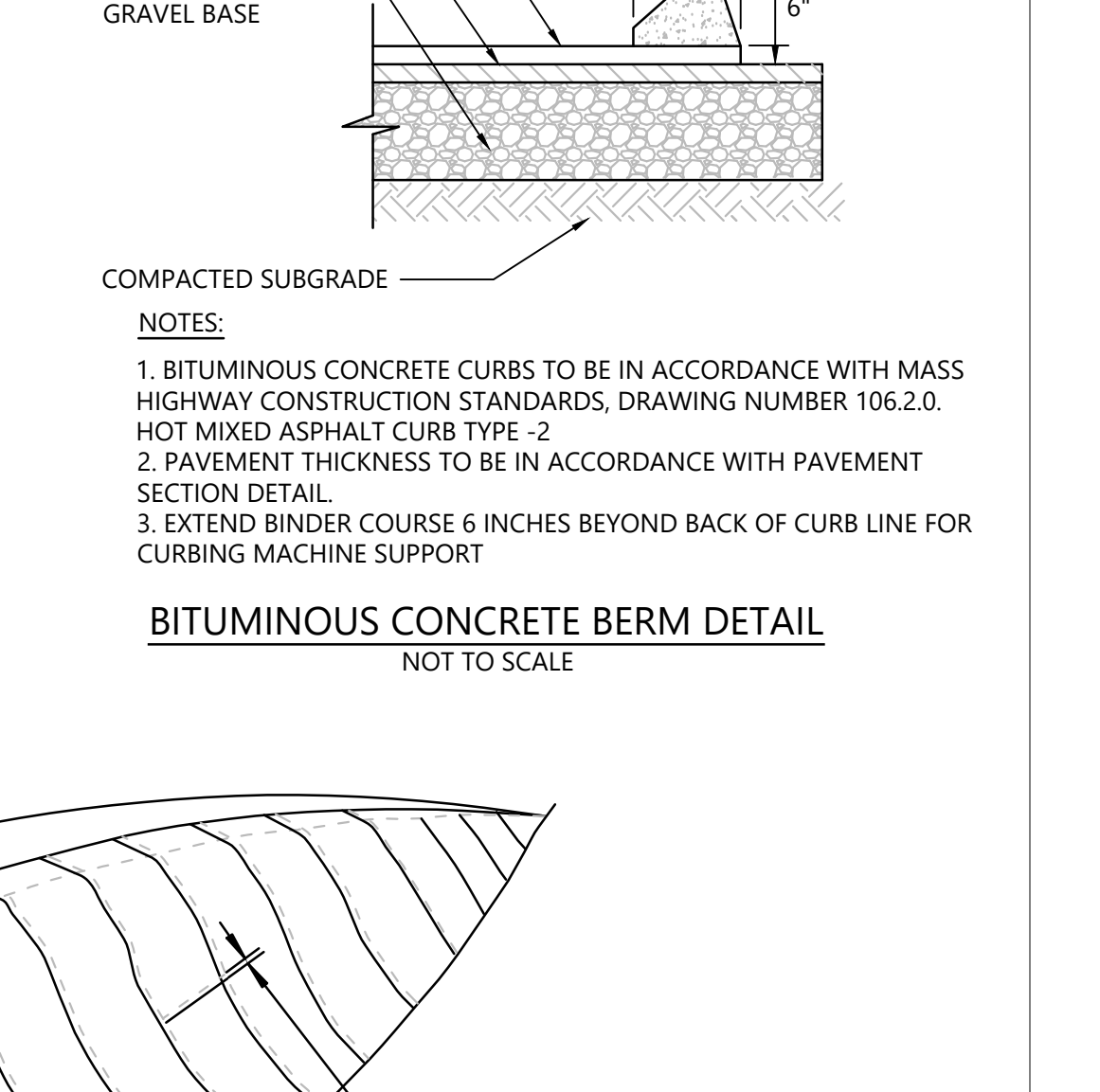
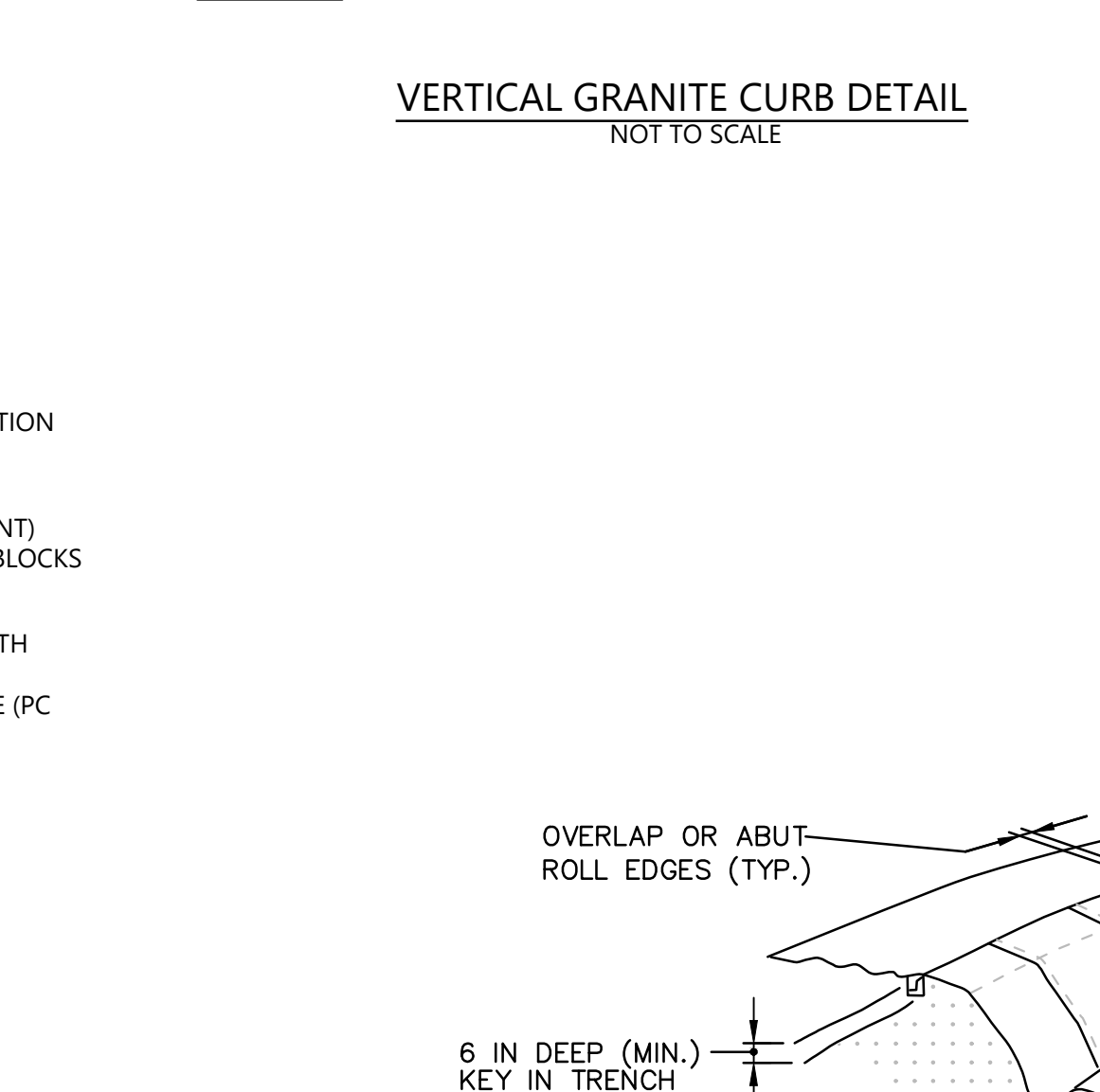
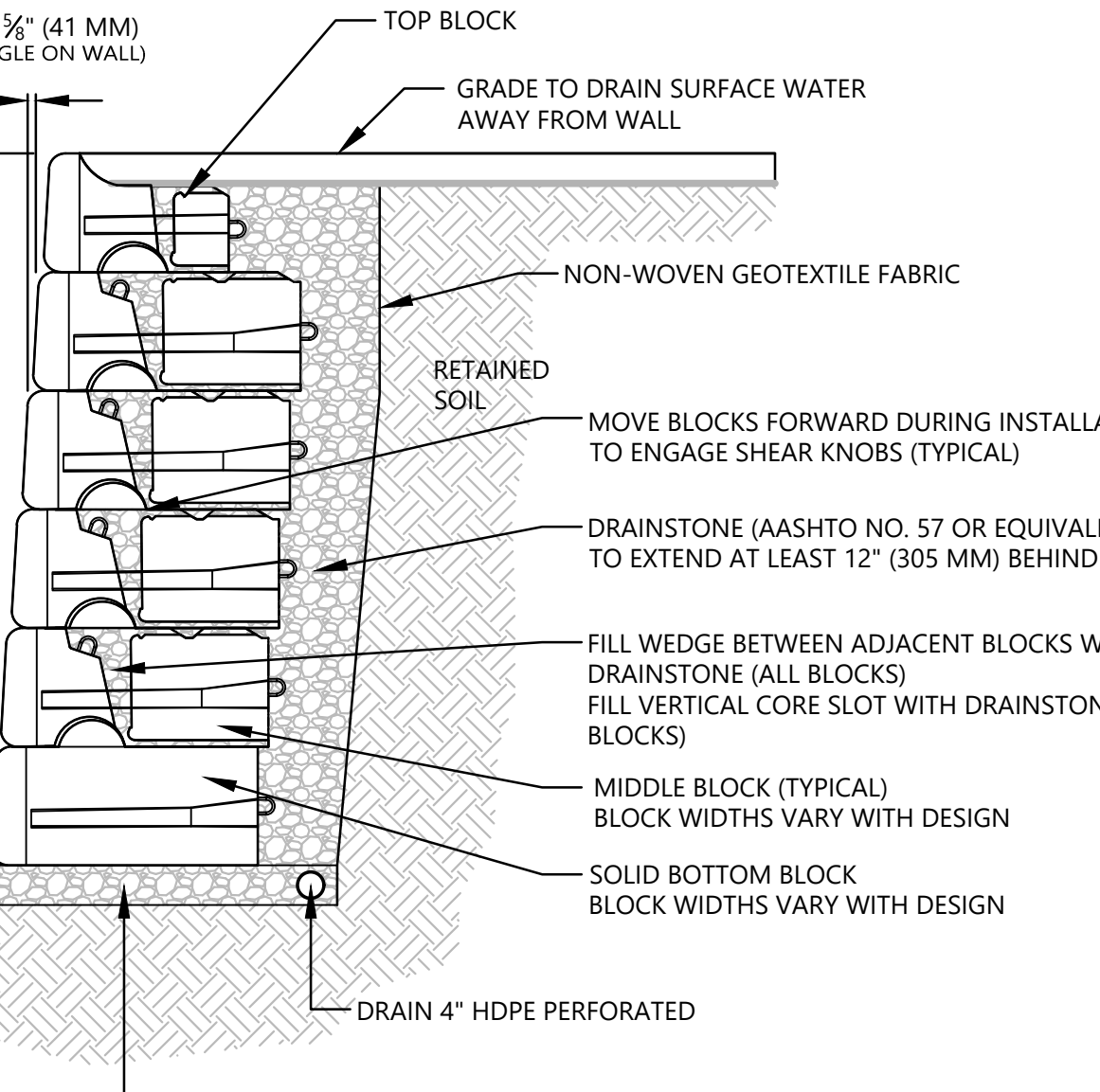
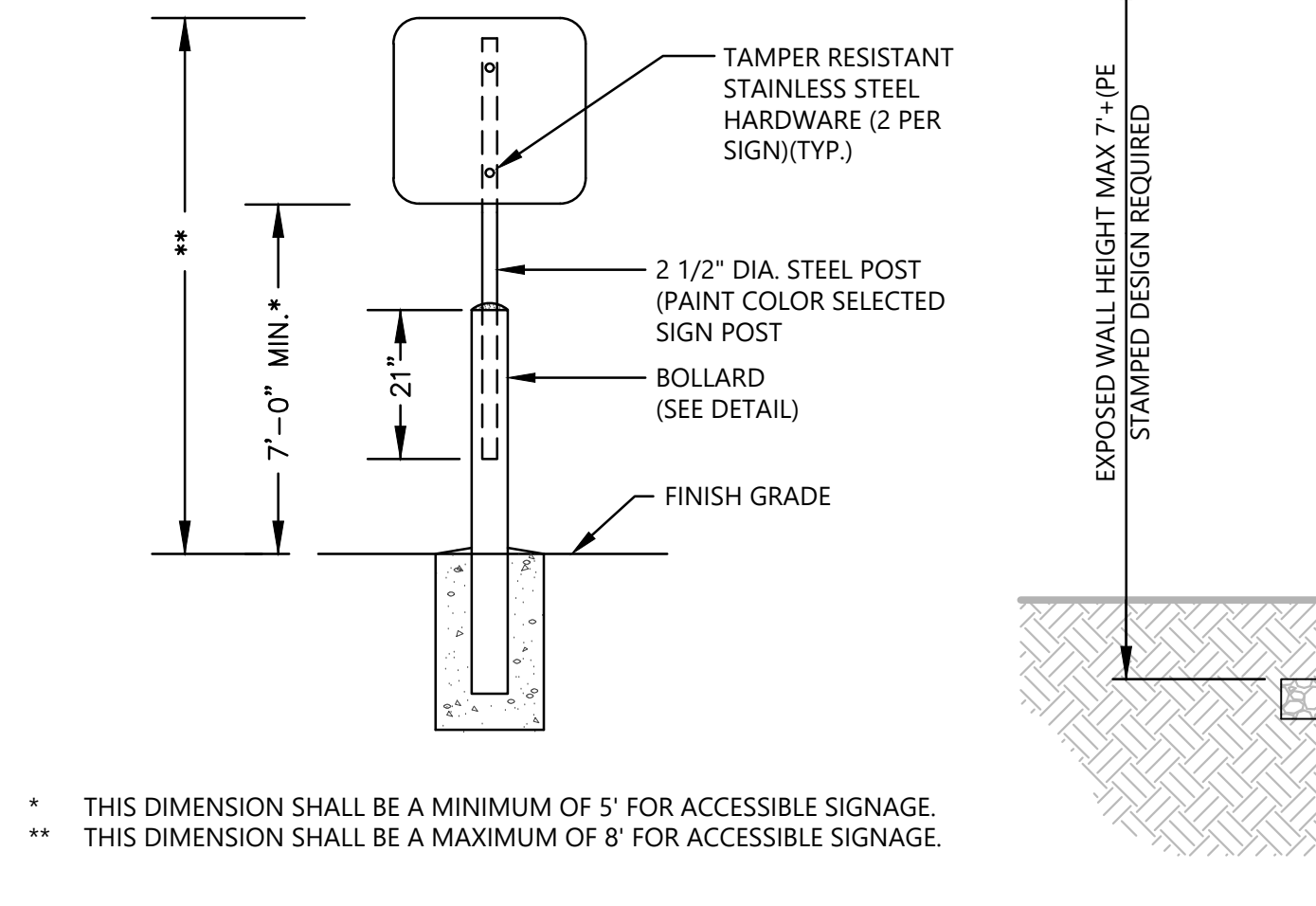
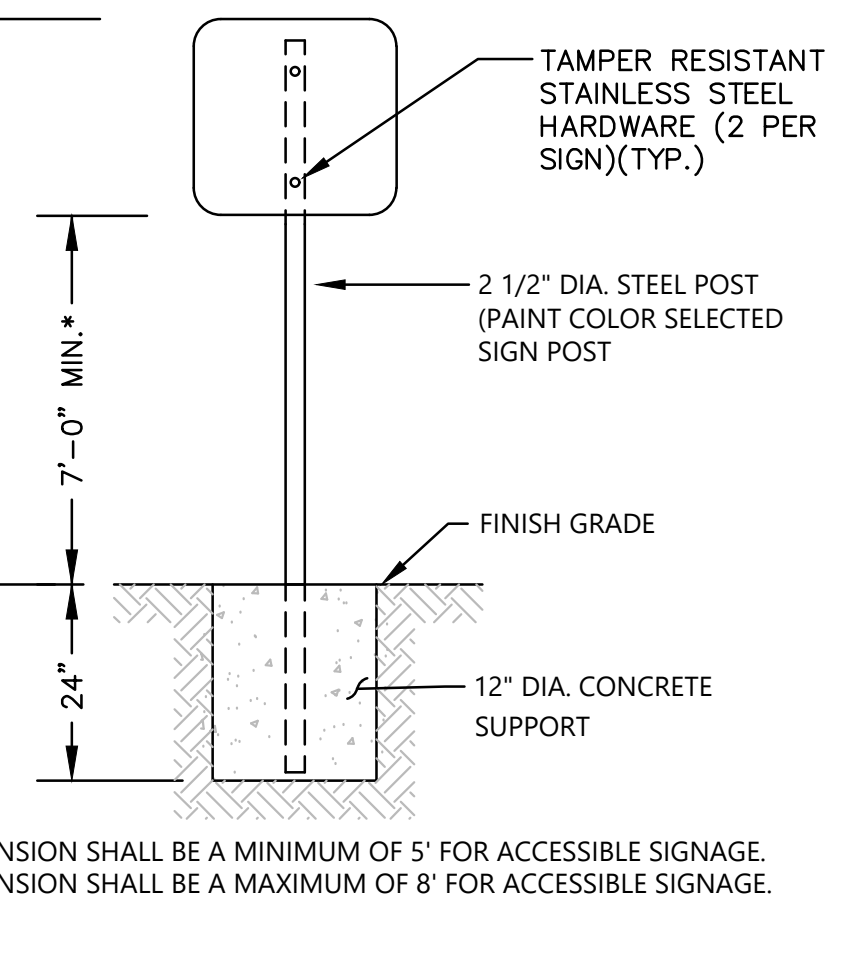
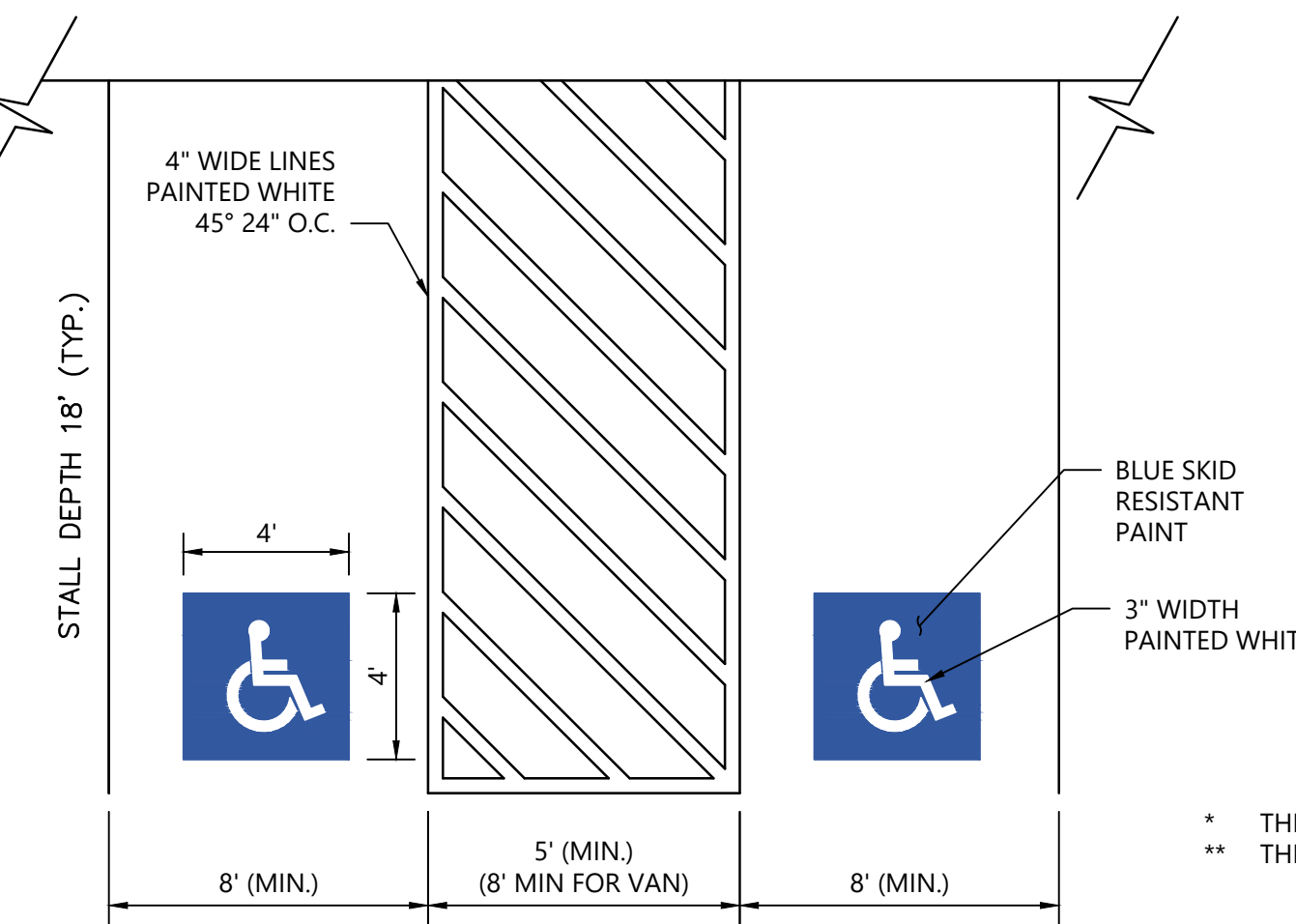
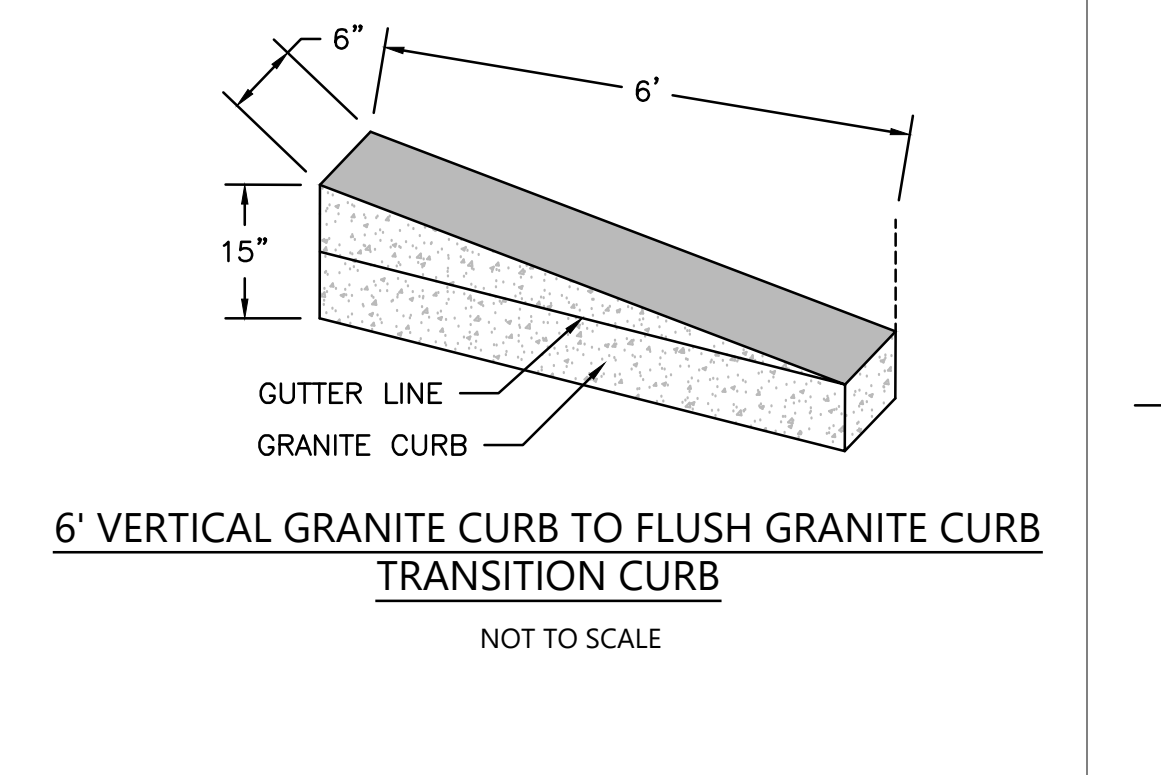
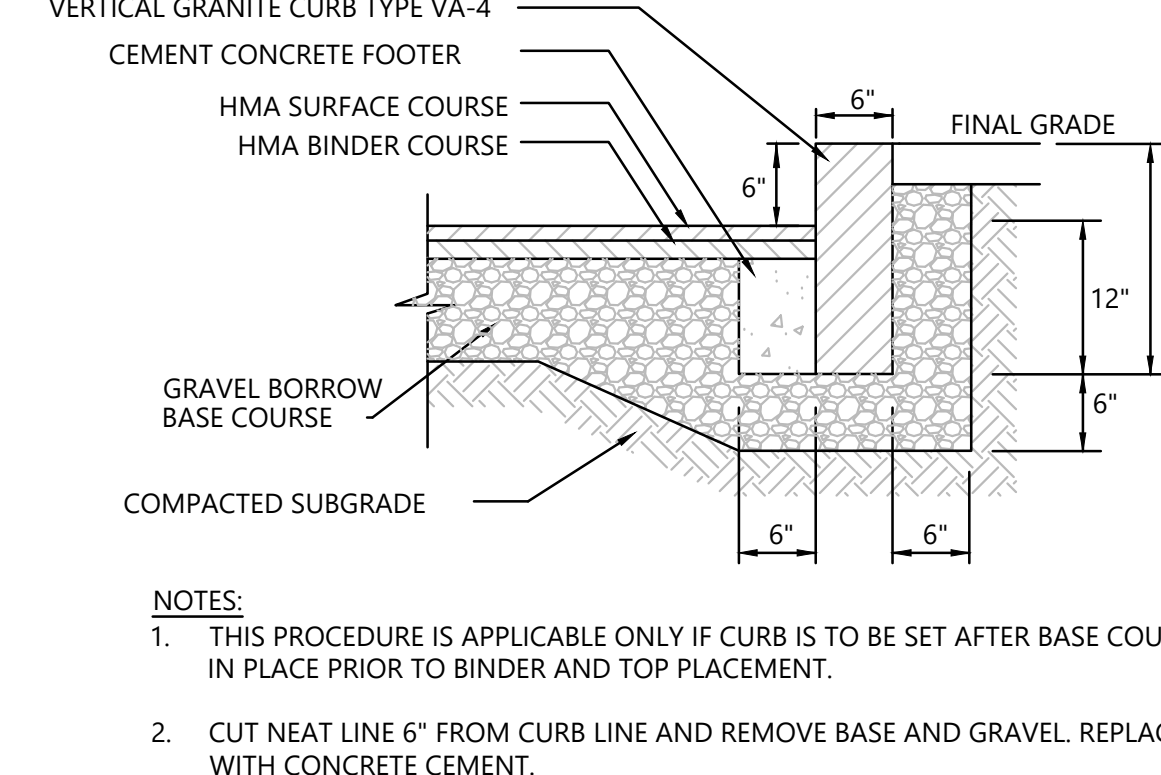
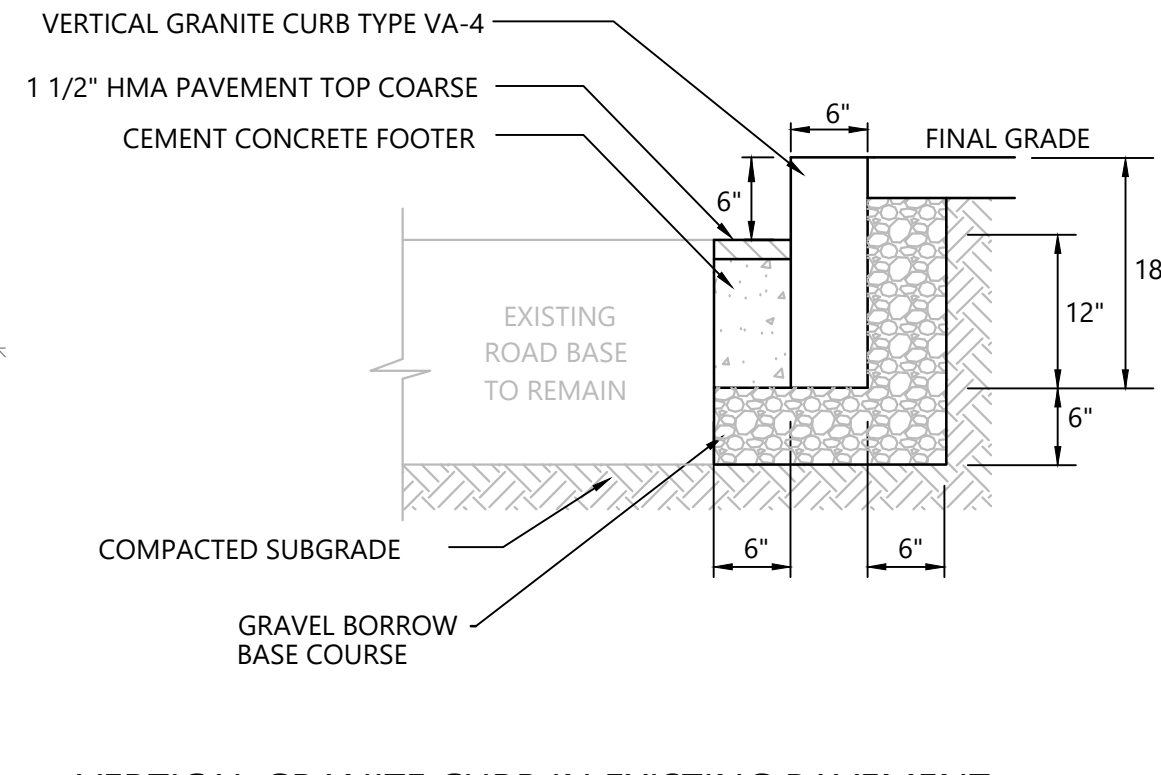
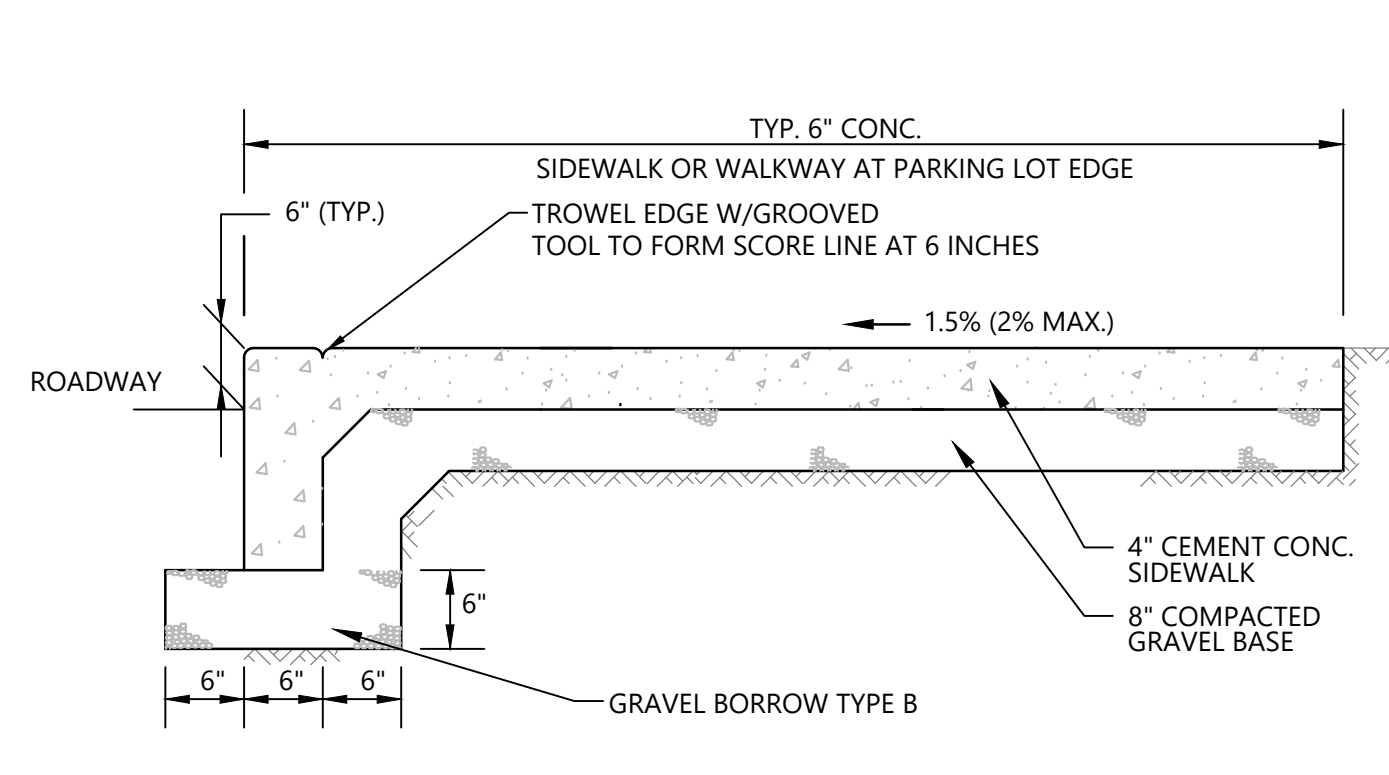
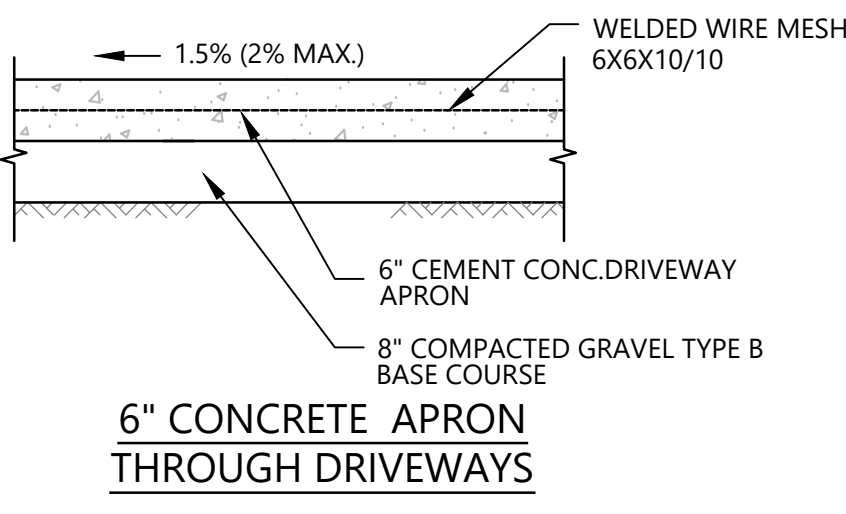
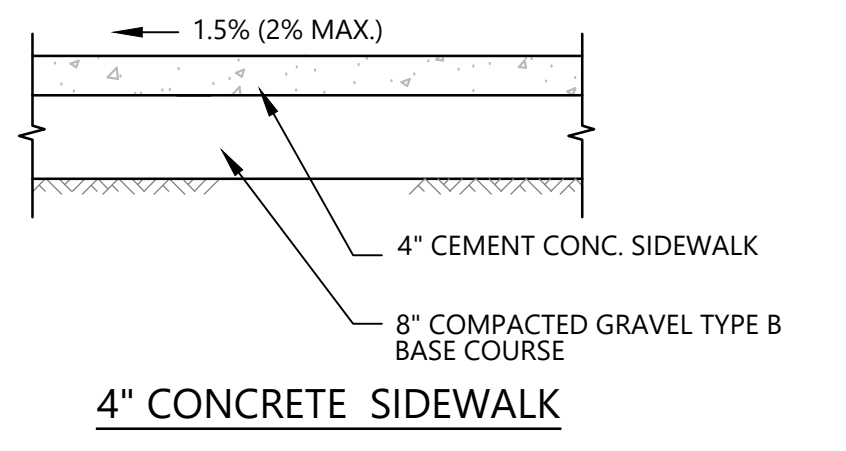
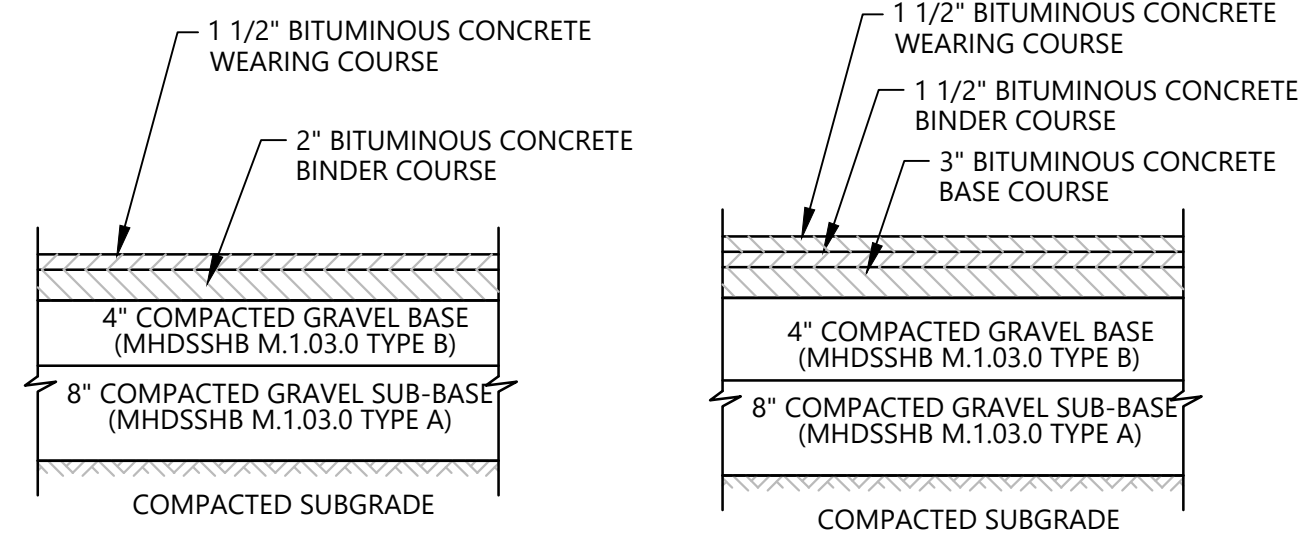
CHAIRMAN DATE  
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**GRADING, DRAINAGE & UTILITY PLAN**

**C-3**

PAVEMENT NOTE:  
ALL REFERENCES TO:  
MHDSSHB-MASS. HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES  
SHALL MEAN:  
COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES LATEST EDITION



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**DEVENS PUBLIC SAFETY BUILDING**  
270 Barnum Road  
Devens, Massachusetts

Project Number: 4143.0000

**DEC UNIFIED PERMITTING SET**

Date: 15 MARCH 2022

Issued

NO.	DESCRIPTION	DATE

**CONSTRUCTION DETAILS**

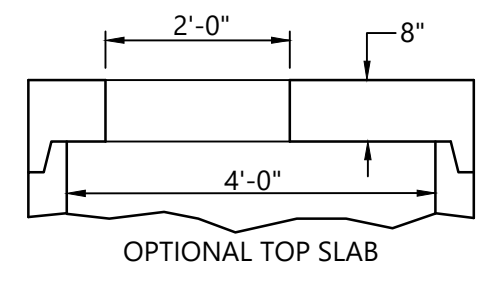
**C-4**

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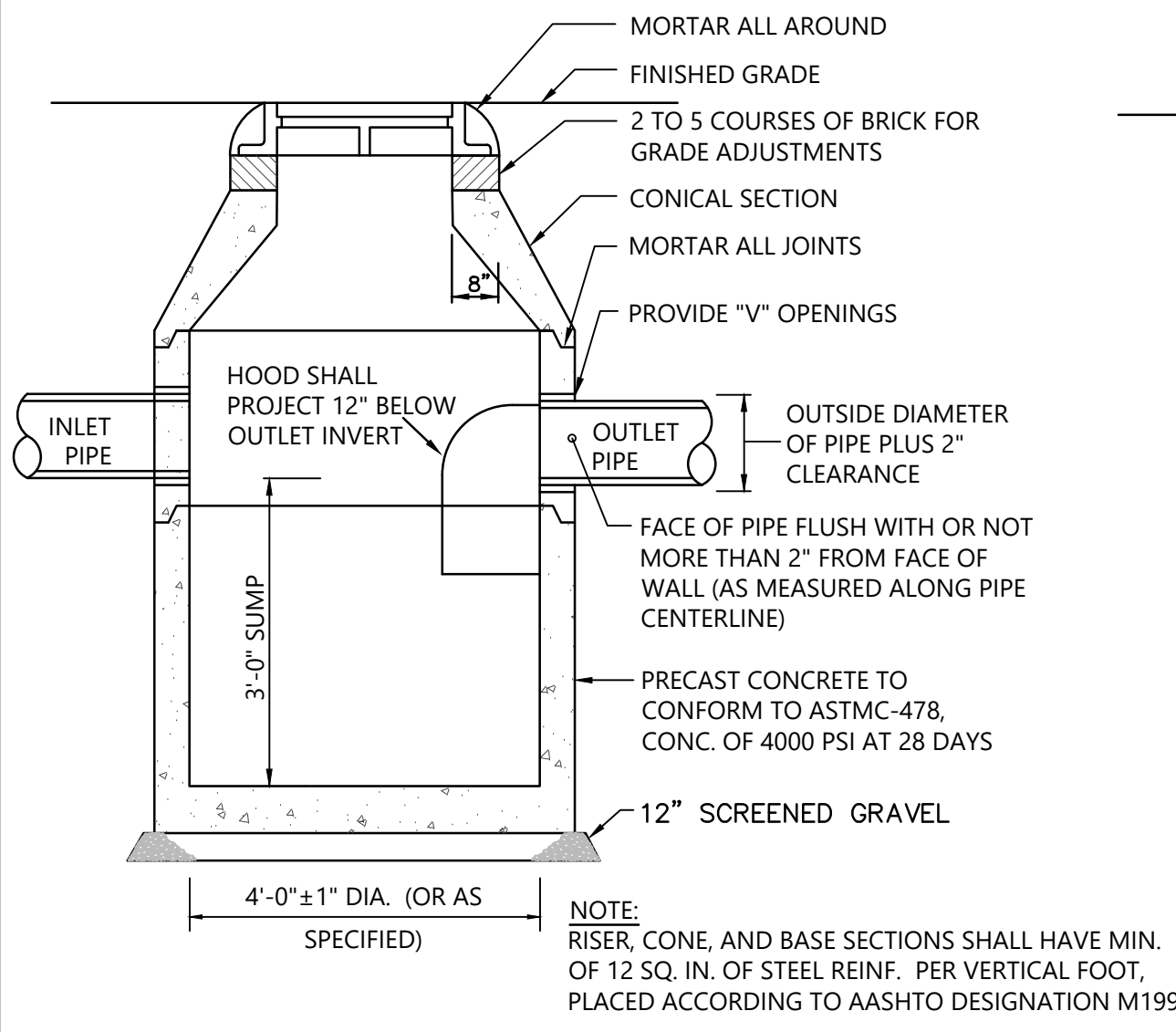
DIAMETER	WALL THICKNESS	FLOOR THICKNESS
4 FT.	5 IN.	6 IN.
5 FT.	6 IN.	7 IN.
6 FT.	7 IN.	8 IN.

DIAMETER	WALL THICKNESS	FLOOR THICKNESS
4 FT.	5 IN.	6 IN.
5 FT.	6 IN.	7 IN.
6 FT.	7 IN.	8 IN.

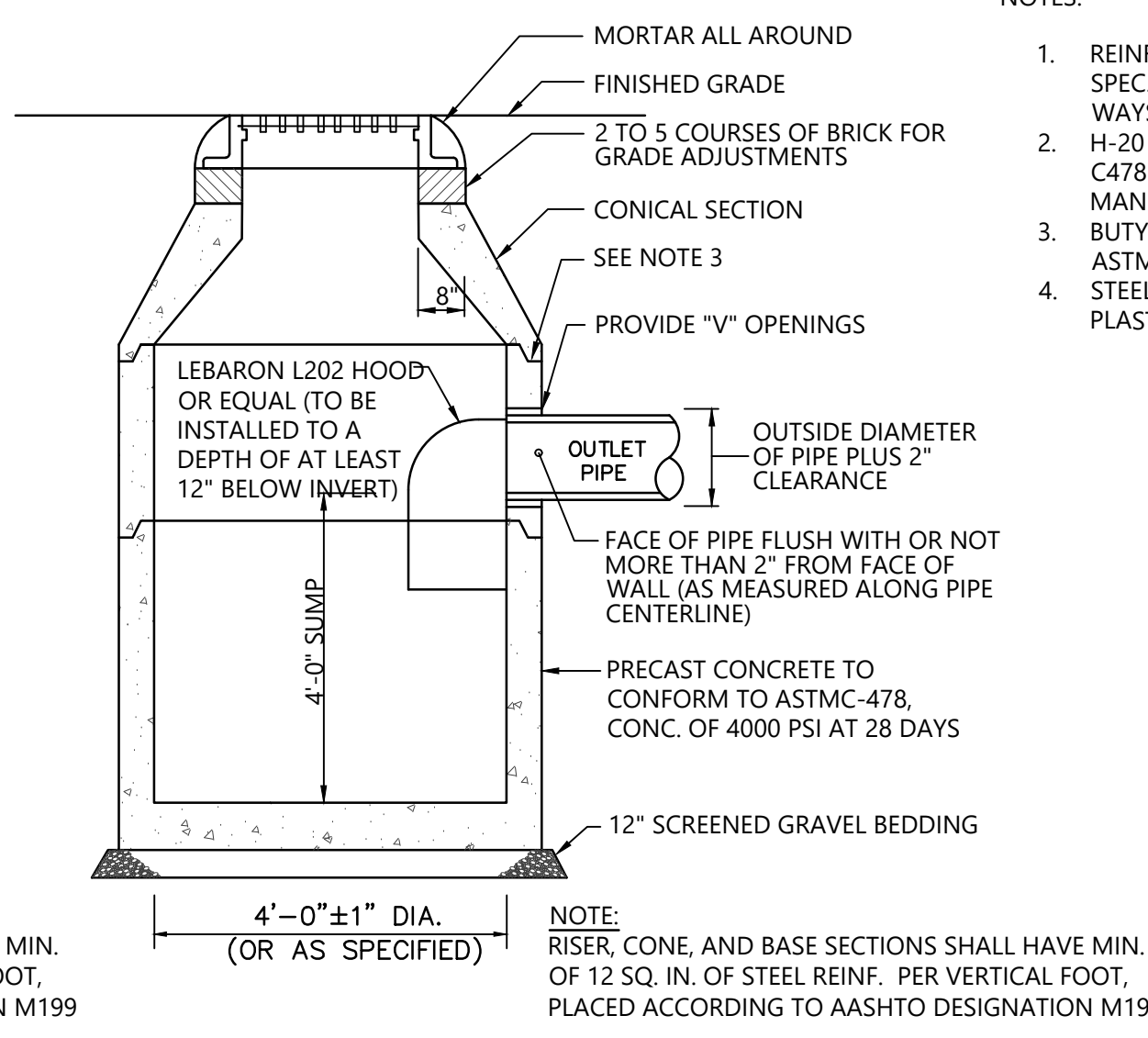


NOTES:

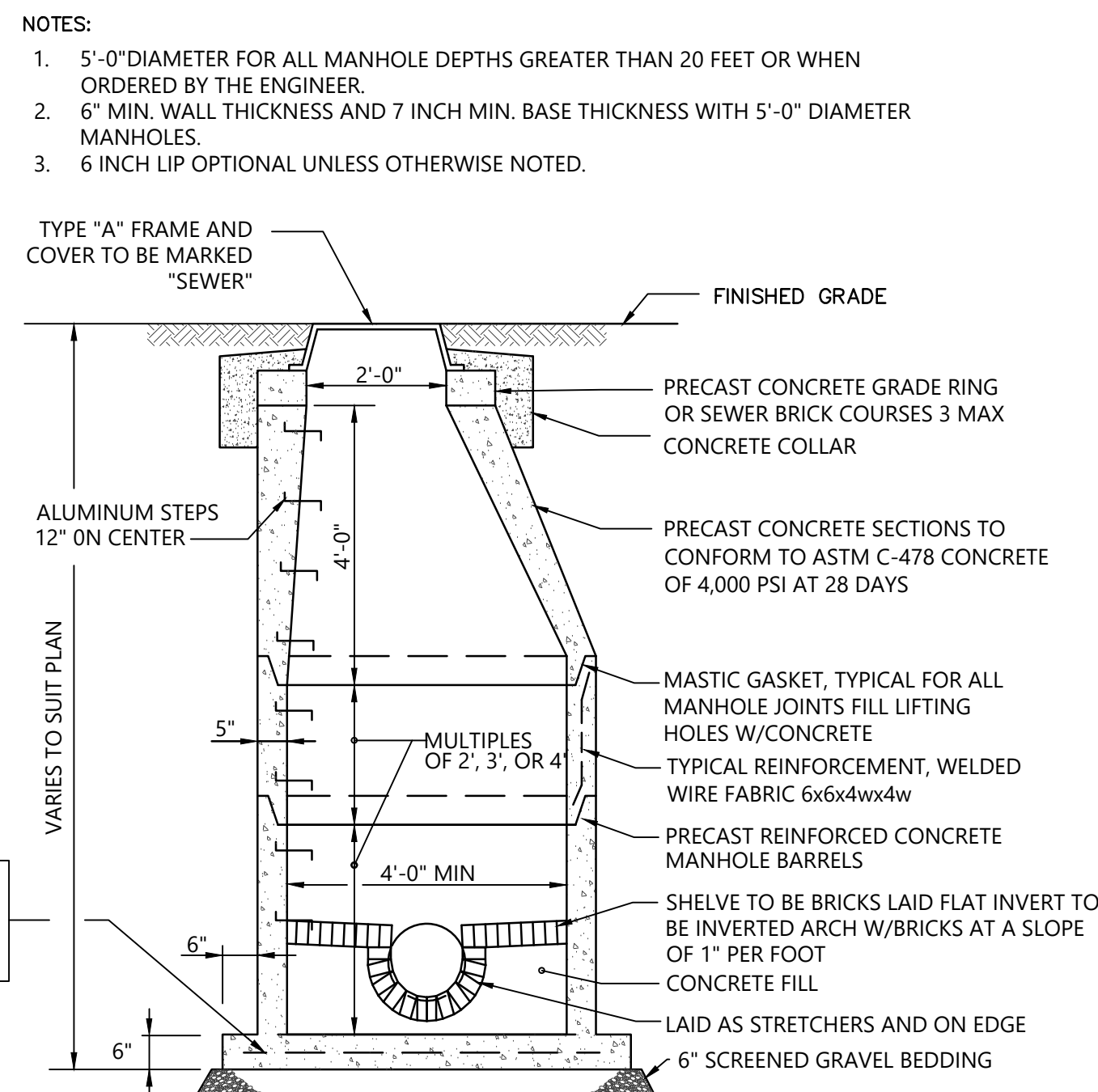
1. REINFORCED STEEL CONFORMS TO LATEST ASTM A185 SPEC. 0.12 SQ. IN./LINEAL FT. AND 0.12 SQ. IN. (BOTH WAYS) BASE BOTTOM.
2. H-20 DESIGN LOADING PER AASHTO HS-20-44; ASTM C478 SPEC FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS"
3. BUTYL RESIN SECTION JOINT CONFORMS TO LATEST ASTM C443 SPEC.
4. STEEL REINFORCED COPOLYMER POLYPROPYLENE PLASTIC STEP CONFORMS TO LATEST ASTM C478 SPEC.



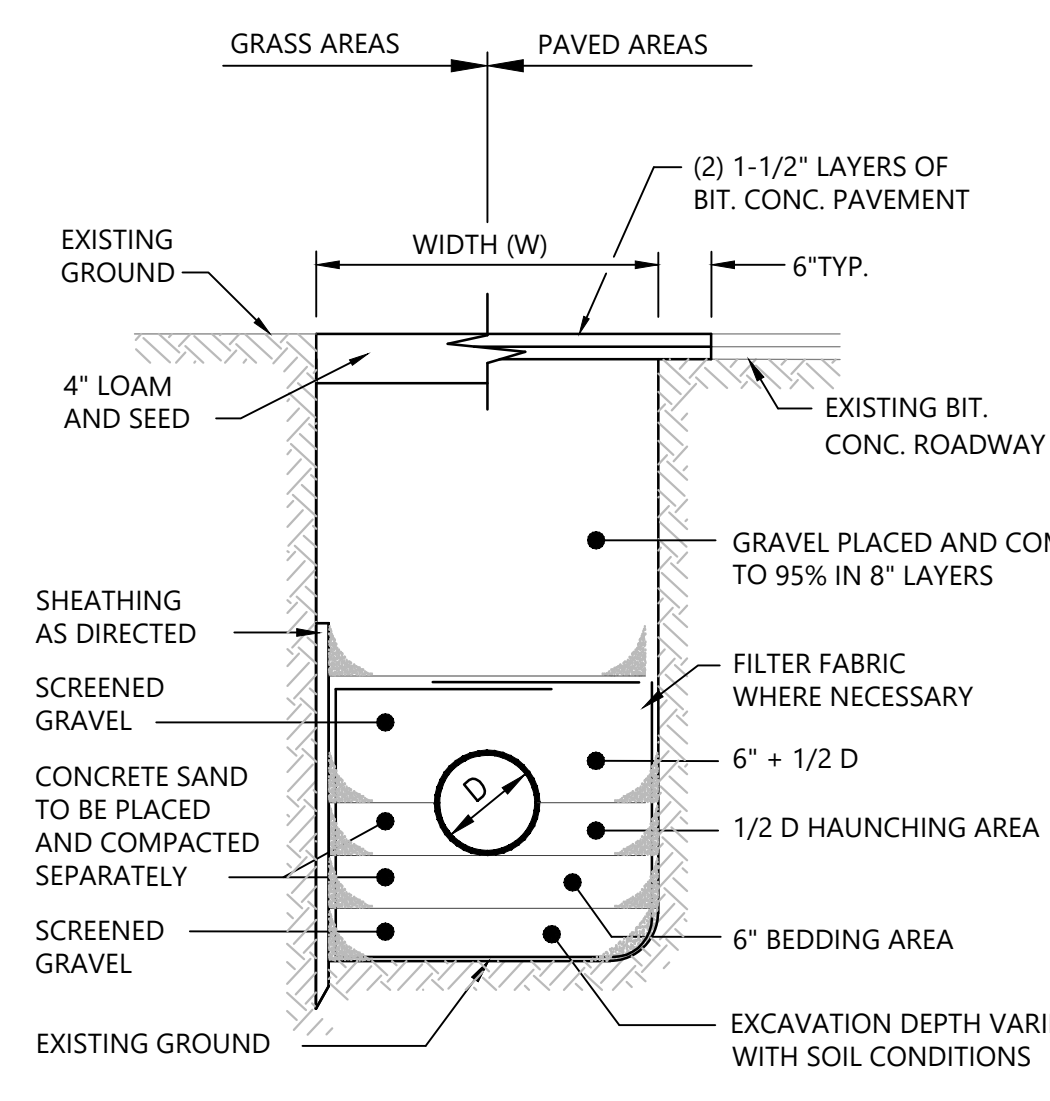
**DRAIN MANHOLE DETAIL**  
NOT TO SCALE



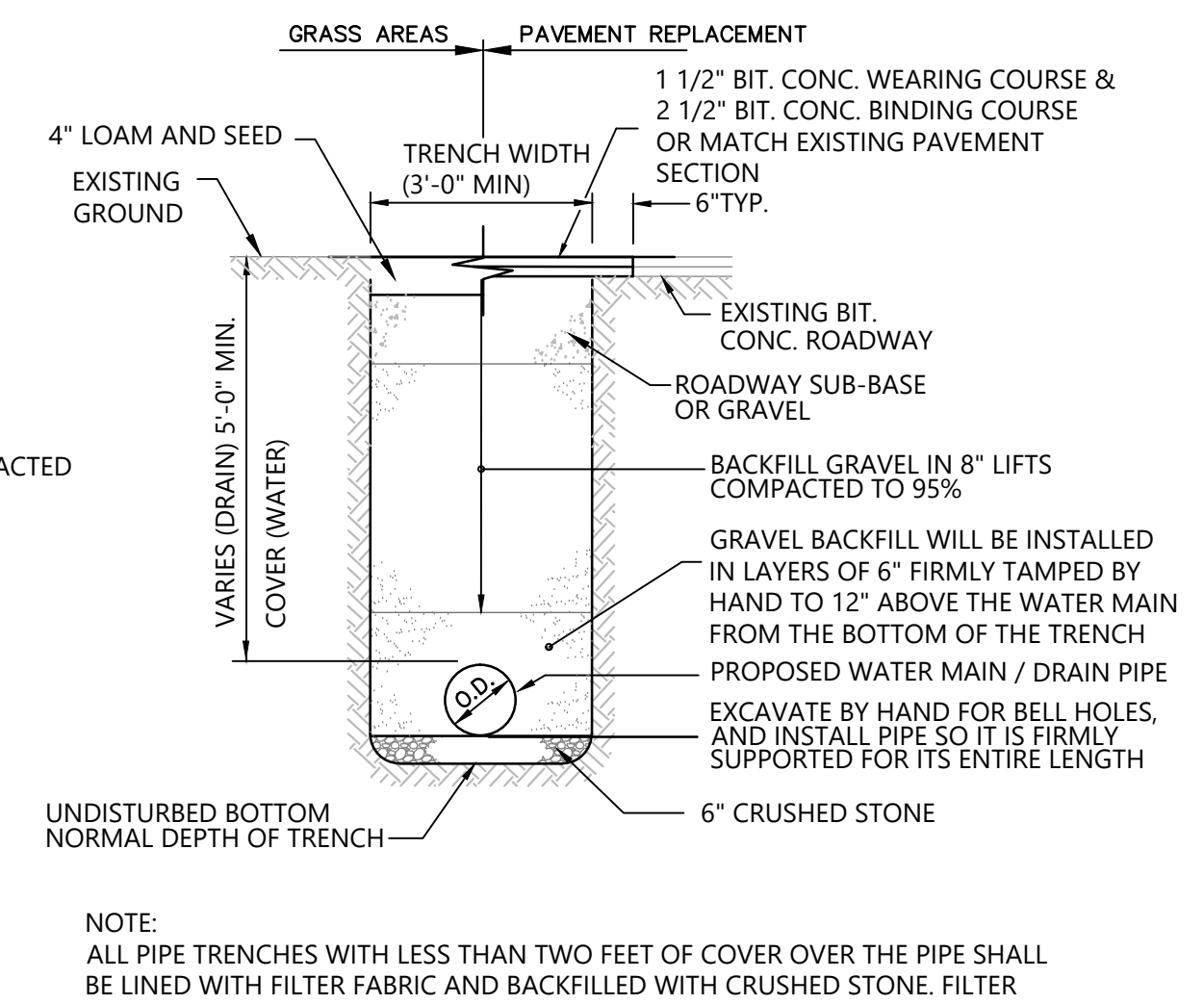
**STANDARD CATCH BASIN DETAIL**  
NOT TO SCALE



**SEWER MANHOLE DETAIL**  
NOT TO SCALE

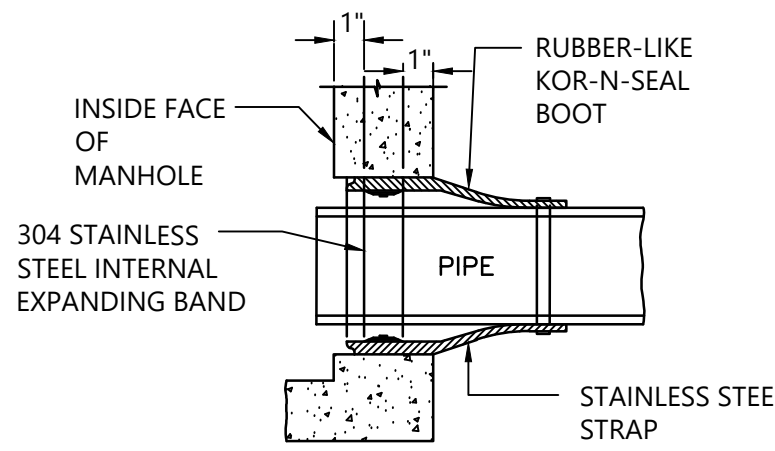


**TYPICAL SEWER TRENCH DETAIL**  
NOT TO SCALE

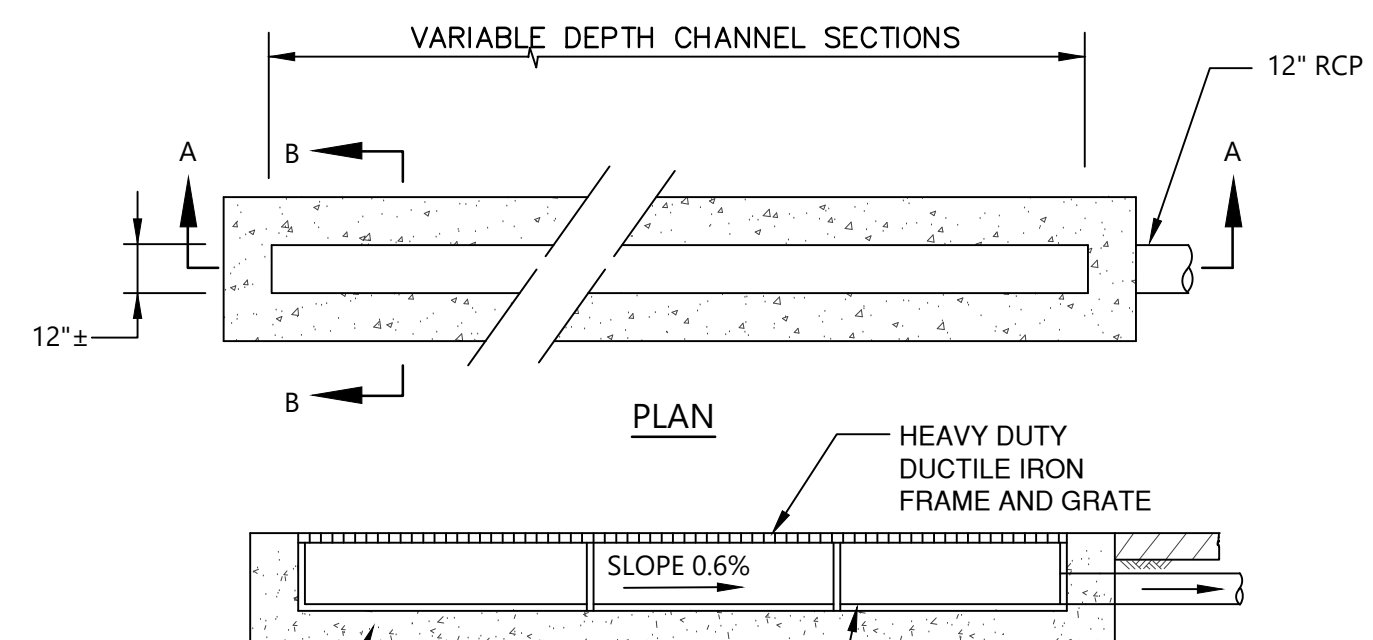


**TYPICAL PIPE TRENCH DETAIL**  
NOT TO SCALE

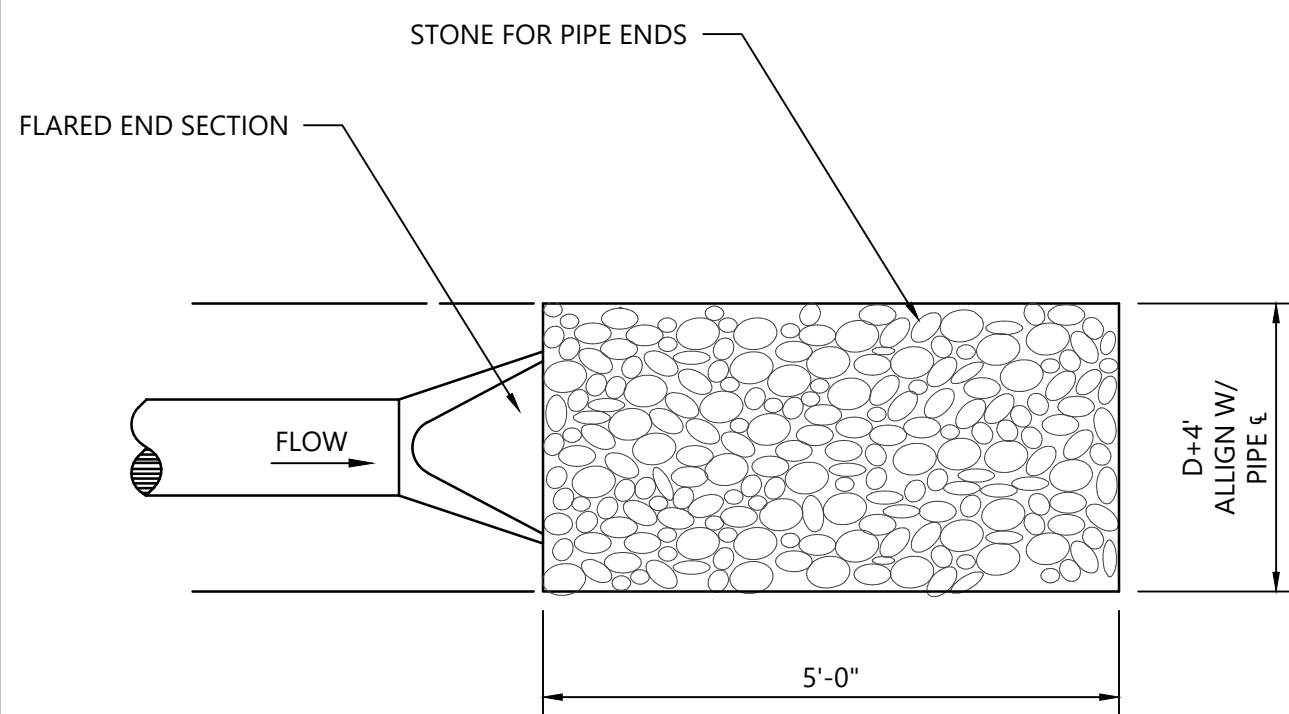
NOTE: SLEEVES FOR SEWER PIPE CONNECTIONS TO MANHOLES MAY BE CAST IN PLACE BY THE MANUFACTURER IF AVAILABLE. FINAL CONNECTION OF ALL PIPES SHALL BE WATERTIGHT.



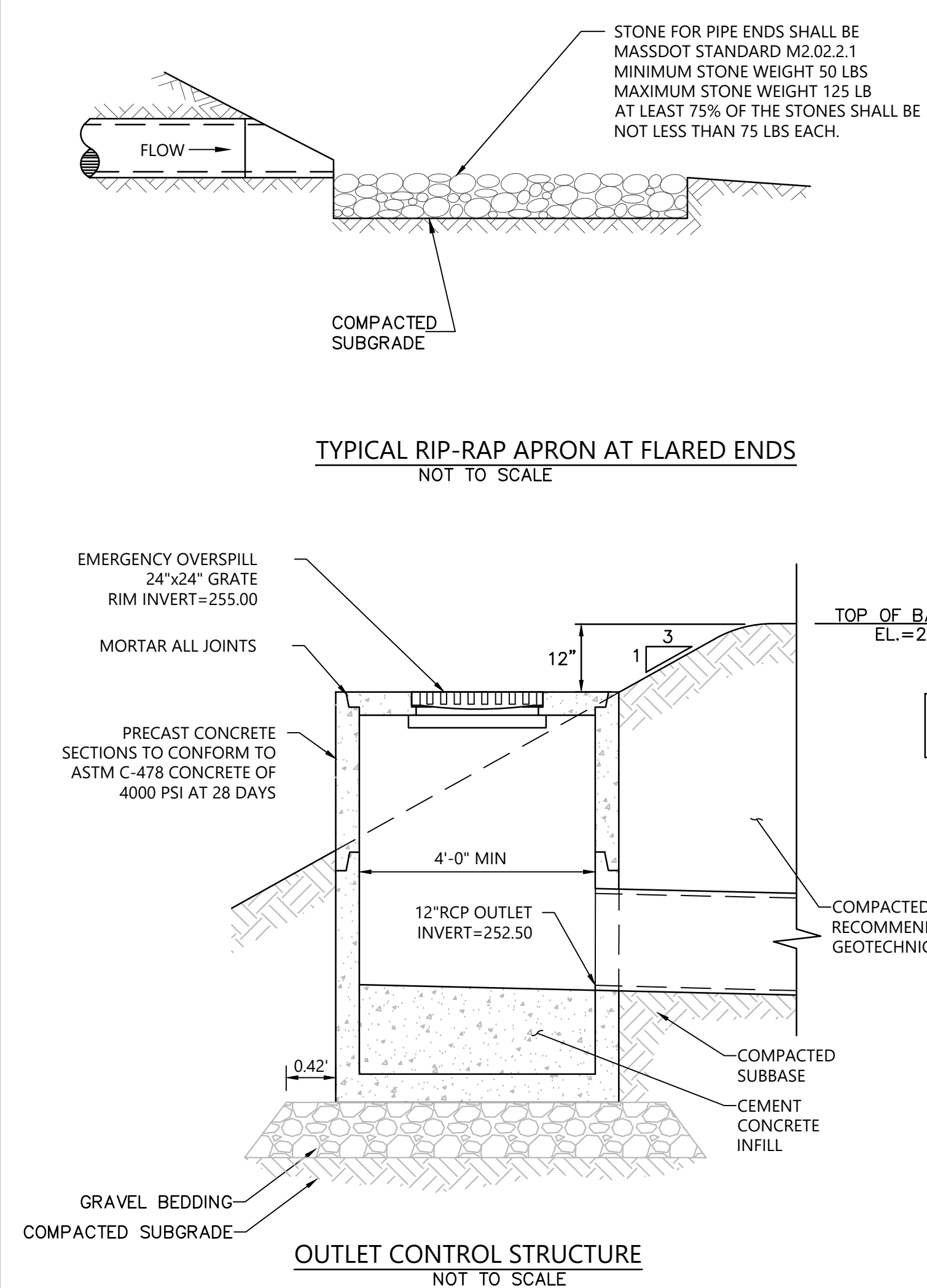
**KOR-N-SEAL JOINT SLEEVE**  
NOT TO SCALE



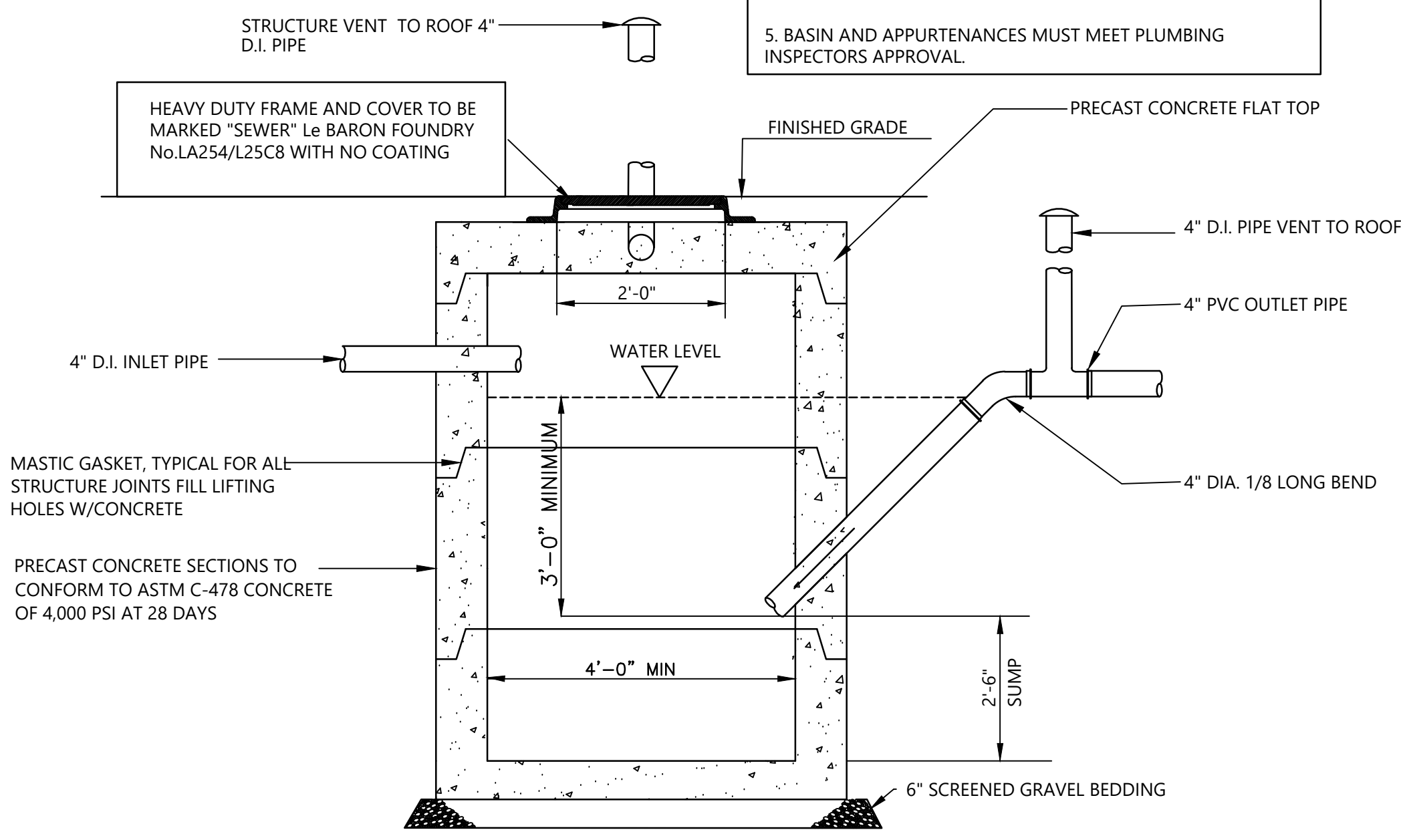
**TYPICAL TRENCH DRAIN DETAIL**  
NOT TO SCALE



**TYPICAL RIP-RAP APRON AT FLARED ENDS**  
NOT TO SCALE

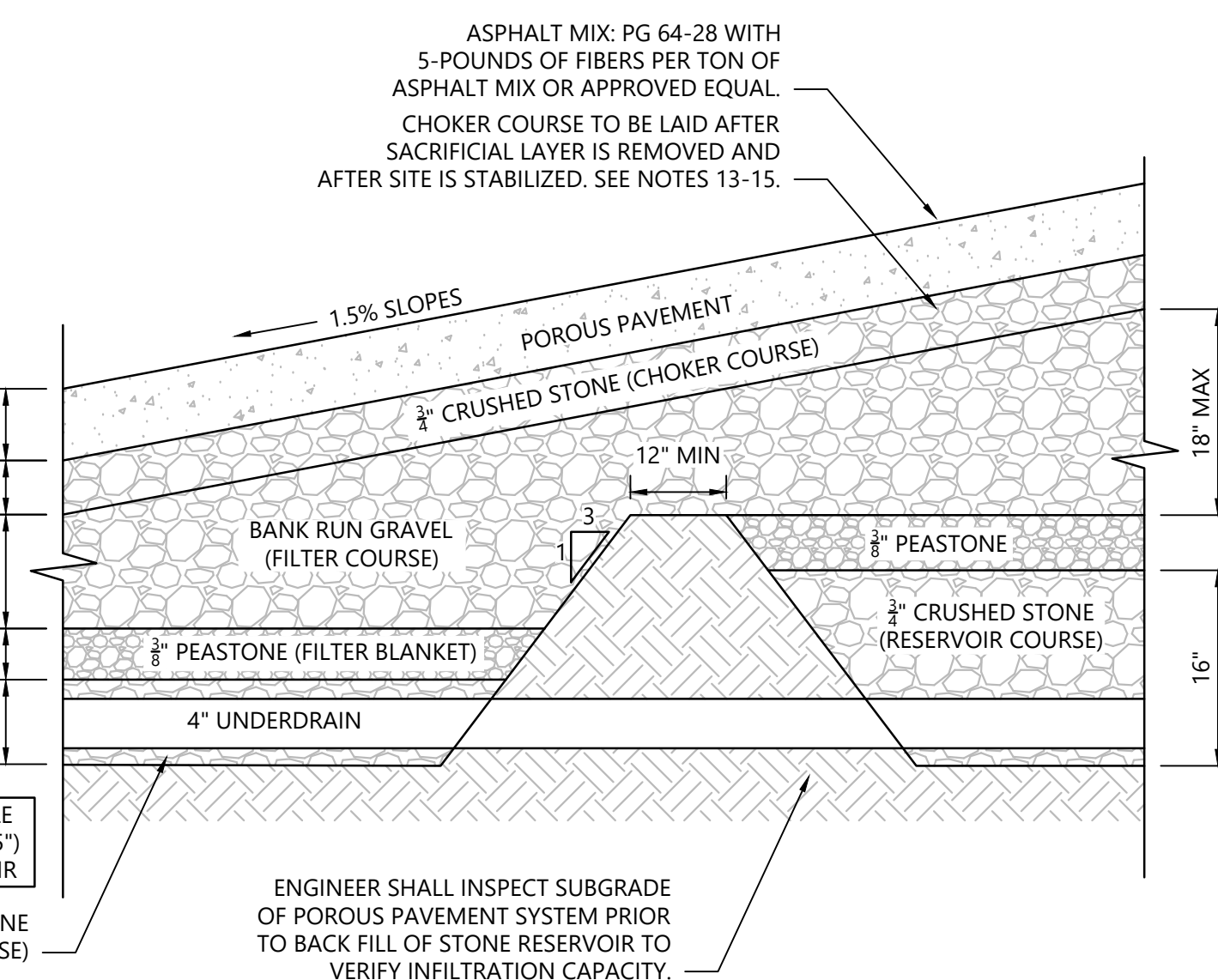


**OUTLET CONTROL STRUCTURE**  
NOT TO SCALE



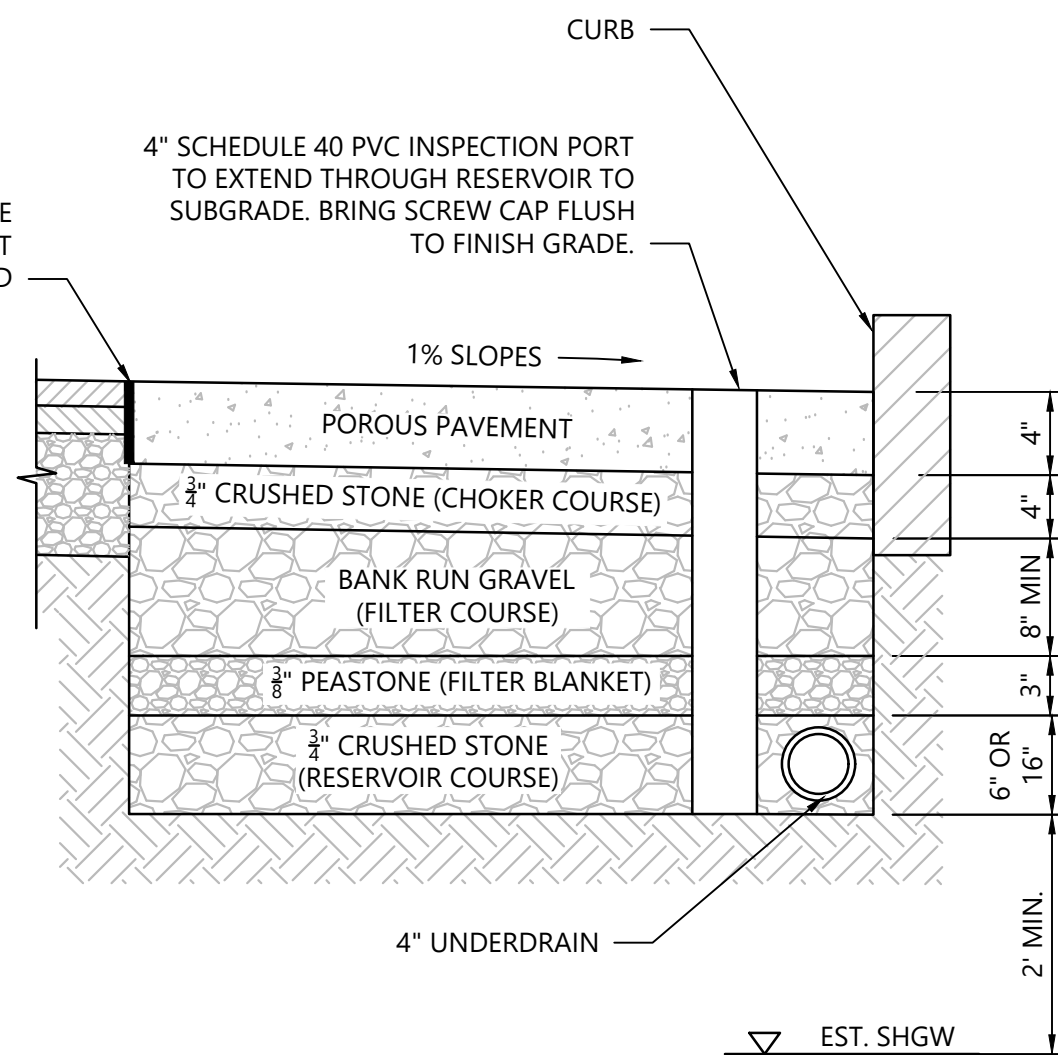
**OIL/GASOLINE SEPARATOR**  
NOT TO SCALE

- OIL/GASOLINE TRAP NOTES:**
1. ALL PIPE BELOW FLOOR AND THROUGH BUILDING IS DUCTILE IRON NO-HUB WITH STAINLESS STEEL BAND CLAMPS.
  2. USE PRECAST CONCRETE SECTIONS ONLY.
  3. BASIN IS TO BE FILLED WITH CLEAN WATER BEFORE USING AND AFTER BEING EMPTIED FOR PERIODIC CLEANING.
  4. ALL OIL AND GASOLINE MUST BE REMOVED BEFORE CLEANING AND MUST NOT BE DISCHARGED INTO THE SEWER SYSTEM.
  5. BASIN AND APPURTENANCES MUST MEET PLUMBING INSPECTORS APPROVAL.



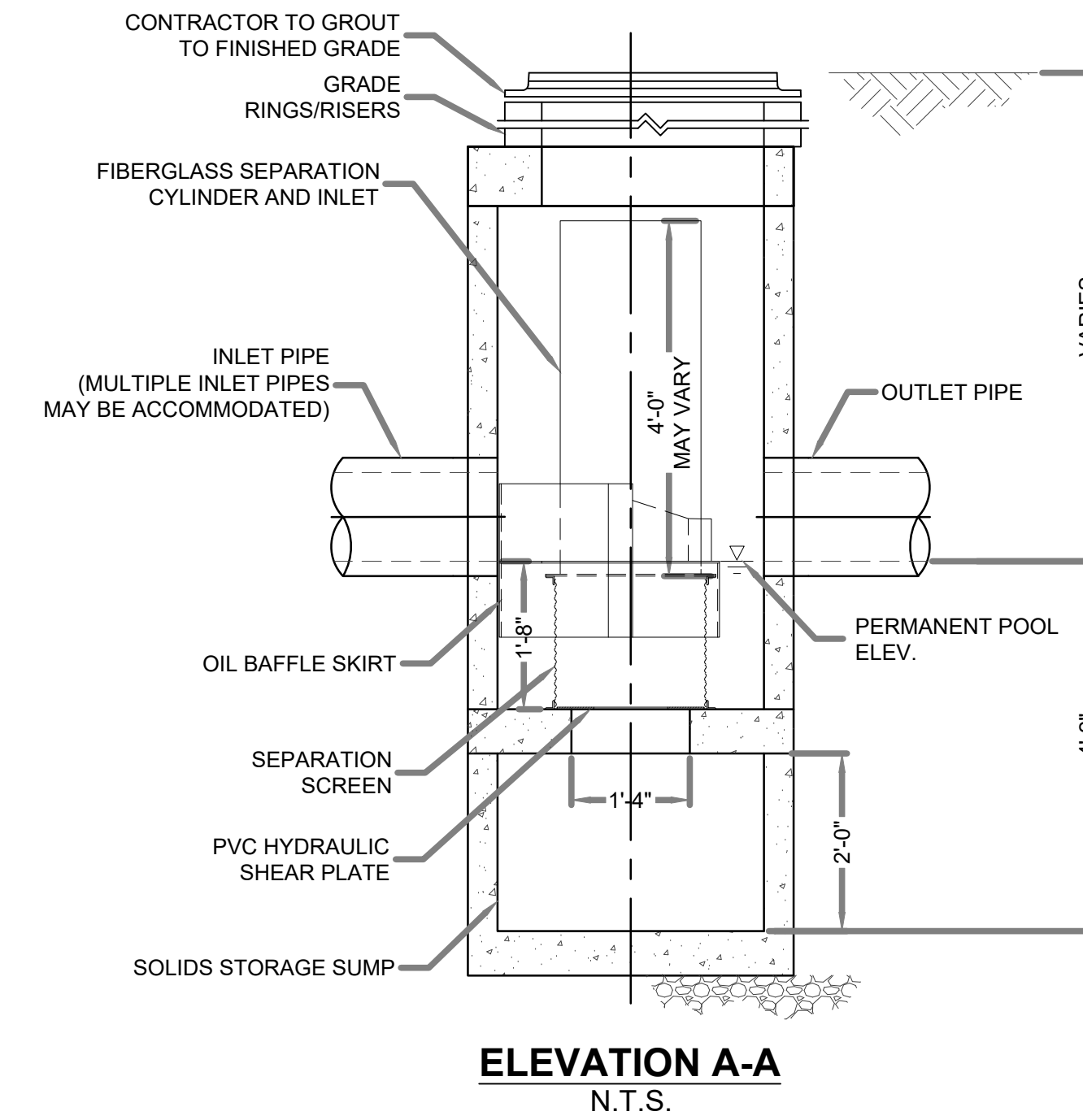
LAYER	ELEVATION
FINISH GRADE (VARIABLE)	254.50 - 255.86
PERVIOUS PAVEMENT (VARIABLE)	254.17 - 255.53
3/4" CRUSHED STONE (VARIABLE)	253.83 - 255.19
BANK RUN GRAVEL (TIERED)	253.17 - 254.00
3/8" PEASTONE (TIERED)	252.92 - 253.75
3/4" CRUSHED STONE	252.42
SEASONAL HIGH WATER TABLE	250.3

**POROUS PAVEMENT DETAIL**  
NOT TO SCALE



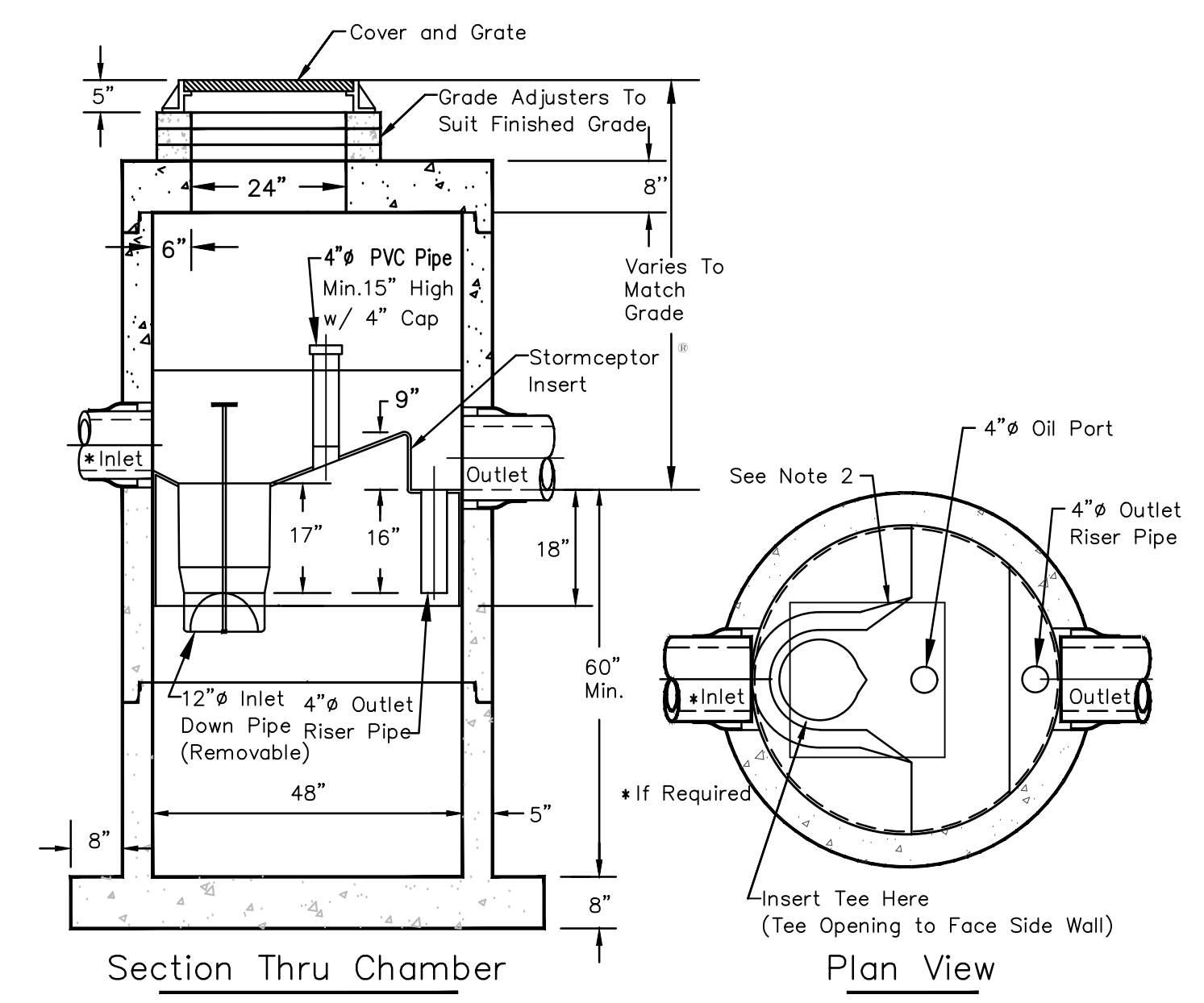
**GENERAL CONSTRUCTION SEQUENCE FOR POROUS PAVEMENT:**

1. INSTALL EROSION AND SEDIMENTATION CONTROL DEVICES.
2. CLEAR AND GRUB EXISTING VEGETATION AS REQUIRED FOR CONSTRUCTION.
3. REMOVE, STOCKPILE AND STABILIZE LOAM.
4. ROUGH GRADE ACCESS DRIVE AND GRADE SIDE SLOPES.
5. STABILIZE EXPOSED SOIL WITH GRASS AND VEGETATION.
6. ROUGH GRADE POROUS PAVEMENT PARKING AREA, LIMITING COMPACTION OF NATIVE SUBGRADE MATERIAL AS MUCH AS POSSIBLE.
7. INSTALL UTILITIES WITHIN THE ACCESS DRIVE AND PARKING AREA.
8. GRADE POROUS PAVEMENT PARKING AREA TO 25' (2'-11") BELOW LOWEST FINISH GRADE ELEVATION (254.5). LIMITING COMPACTION OF NATIVE SUBGRADE MATERIAL AS MUCH AS POSSIBLE AND ENSURING SUBGRADE IS SCARIFIED.
9. INSTALL 4" UNDERDRAIN. CONNECT OUTLET TO EXISTING CATCH BASIN.
10. INSTALL 6" DEPTH OF 3/4" CRUSHED STONE RESERVOIR IN TWO COURSES. INSTALL 16" DEPTH OF 3/8" CRUSHED STONE RESERVOIR, COMPACT IN 6" MAXIMUM LIFTS AS REQUIRED.
11. INSTALL 3" DEPTH OF PEA STONE.
12. INSTALL 8" DEPTH OF BANK RUN GRAVEL IN TWO 6" DEEP COURSES WITH A MINIMUM 95% COMPACTION.
13. INSTALL AN ADDITIONAL SACRIFICIAL 4" DEPTH OF BANK RUN GRAVEL IN ONE 4" DEEP COMPACTION COURSE.
14. COMPLETE ALL SITE WORK INCLUDING PLANTING AND STABILIZING ALL LANDSCAPED AREAS.
15. WHEN SITE WORK IS COMPLETE, THE SITE IS STABILIZED, AND THE POROUS PAVEMENT IS READY TO BE INSTALLED, 4" OF BANK RUN GRAVEL AND FILTER FABRIC SHALL BE REMOVED FROM THE SITE.
16. INSTALL VARIABLE DEPTH BANK RUN GRAVEL AS REQUIRED TO BRING POROUS PAVEMENT PARKING AREA TO WITHIN 8" OF FINISHED GRADE. COMPACT IN 6" MAXIMUM LIFTS AS REQUIRED TO A MAXIMUM DEPTH OF 18".
17. INSTALL 4" DEPTH OF CHOKER COURSE, MAKING SLIGHT GRADING ADJUSTMENTS AS NEEDED.
18. INSTALL 4" DEPTH OF POROUS PAVEMENT.
19. CLEAN AND REMOVE ALL CONSTRUCTION DEBRIS.



**ELEVATION A-A**  
N.T.S.

**CDC1515-3-C WATER QUALITY UNIT**  
NOT TO SCALE



- Notes:
1. The Use Of Flexible Connection Is Recommended At The Inlet And Outlet Where Applicable.
  2. The Cover Should Be Positioned Over The Inlet Drop Pipe and The Oil Port.
  3. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

**STC 450i PRECAST CONCRETE STORMCEPTOR®**

NOT TO SCALE

CHAIRMAN DATE

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NO.	DESCRIPTION	DATE