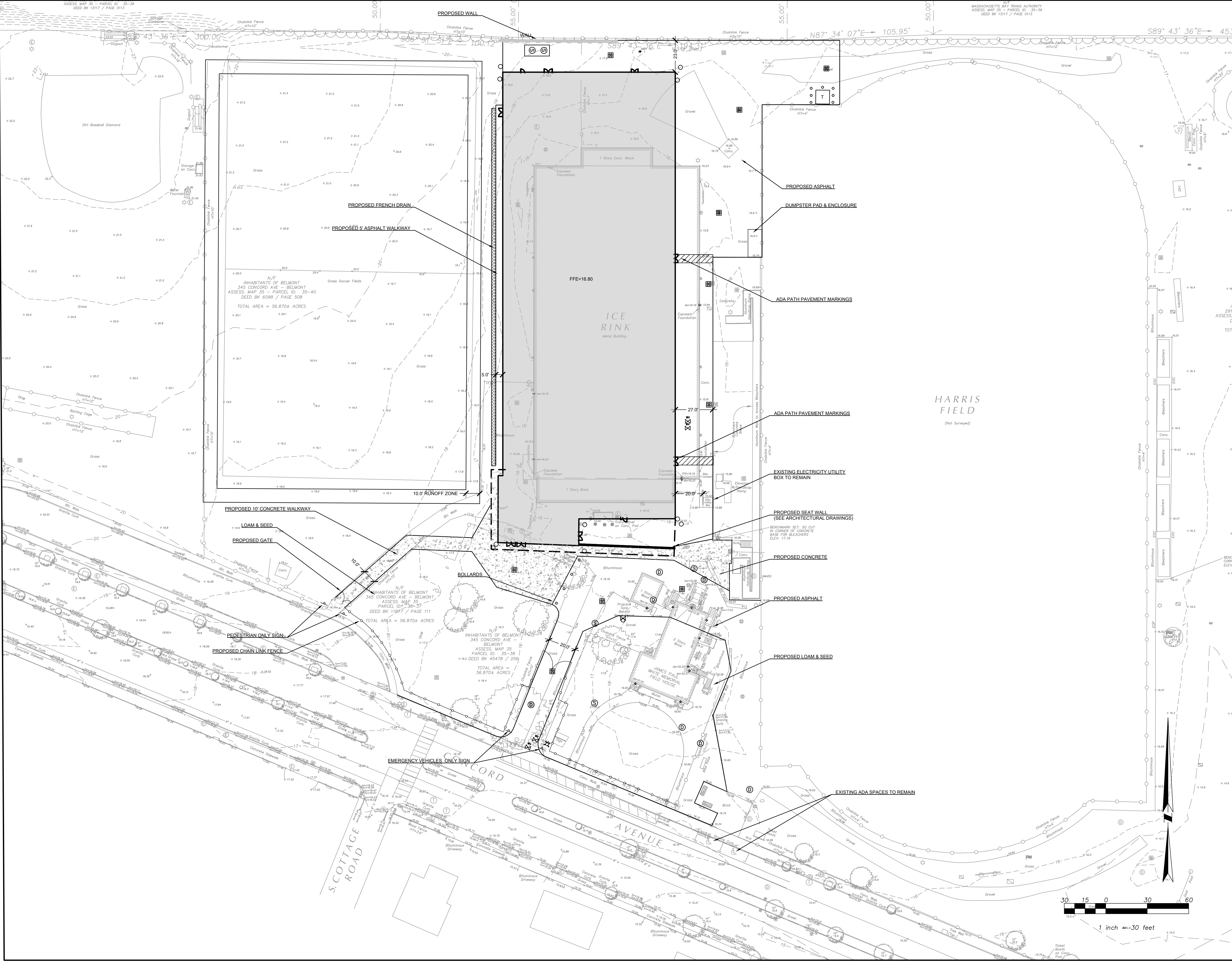


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Project Title
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297 Concord Ave,
Belmont, MA 02478



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Drawing Title
Layout Plan

Date/Issued For
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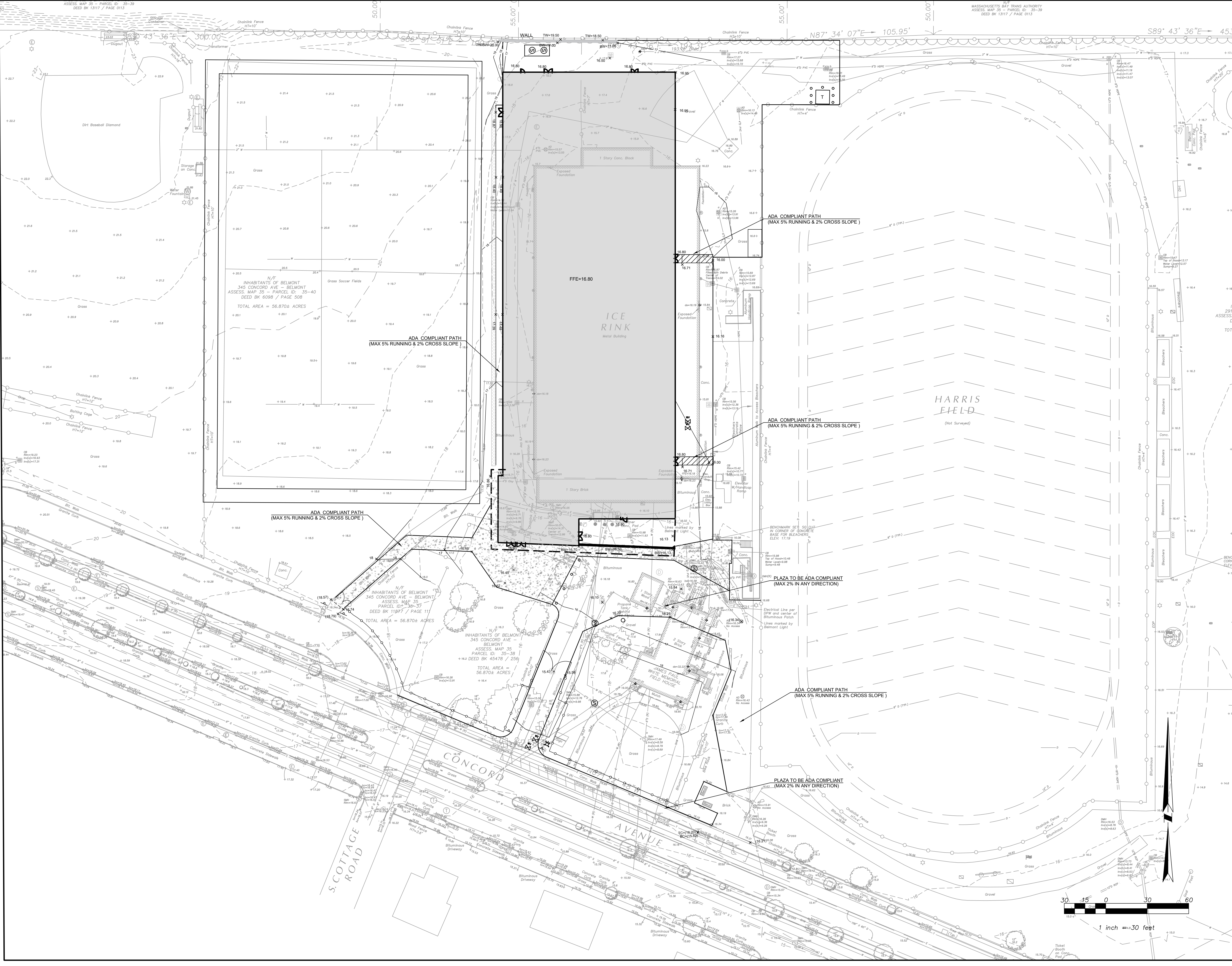
Issue
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Scale
As Noted

Drawn By
GJM

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C-1

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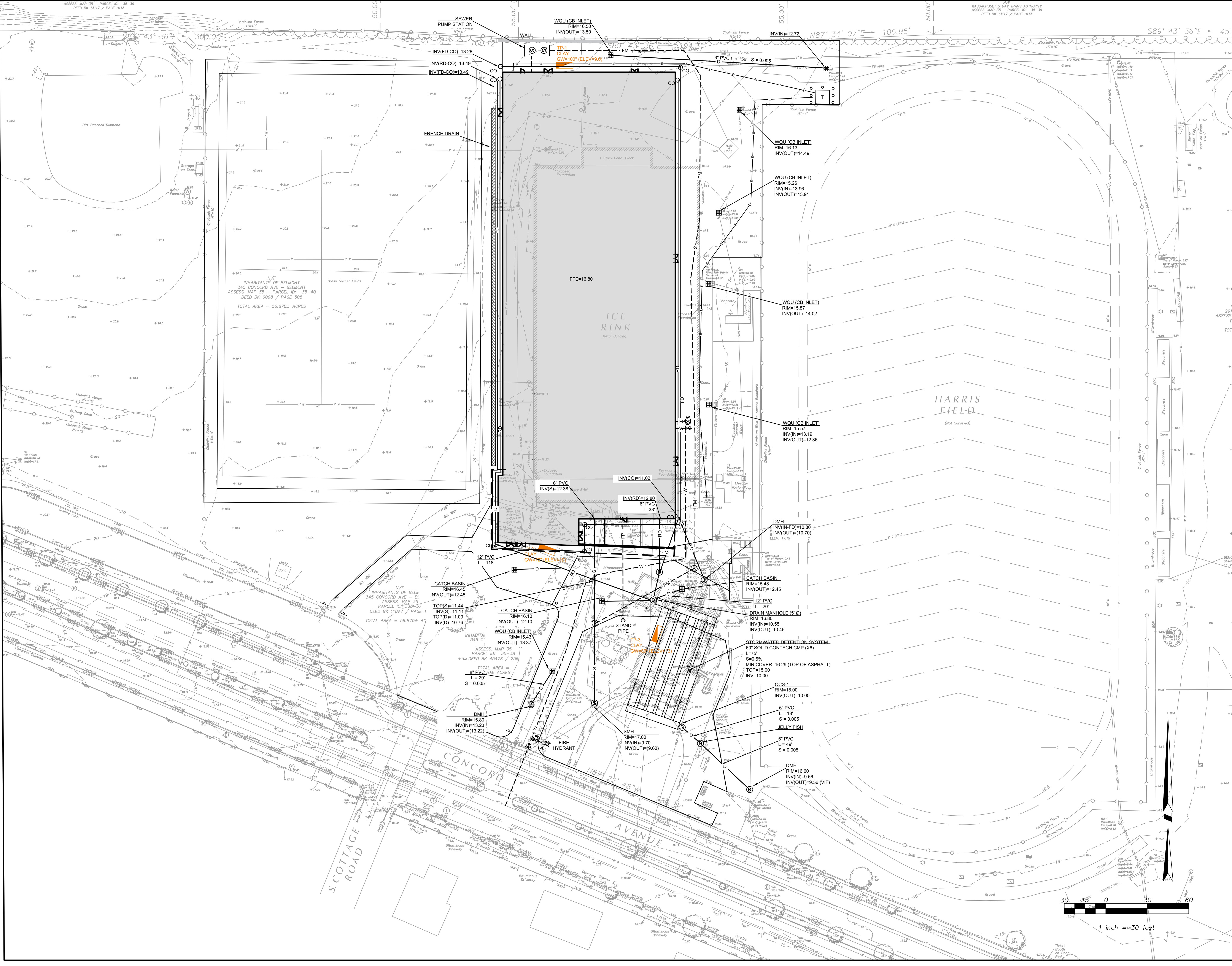
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UTILITIES PLAN

12.04.23

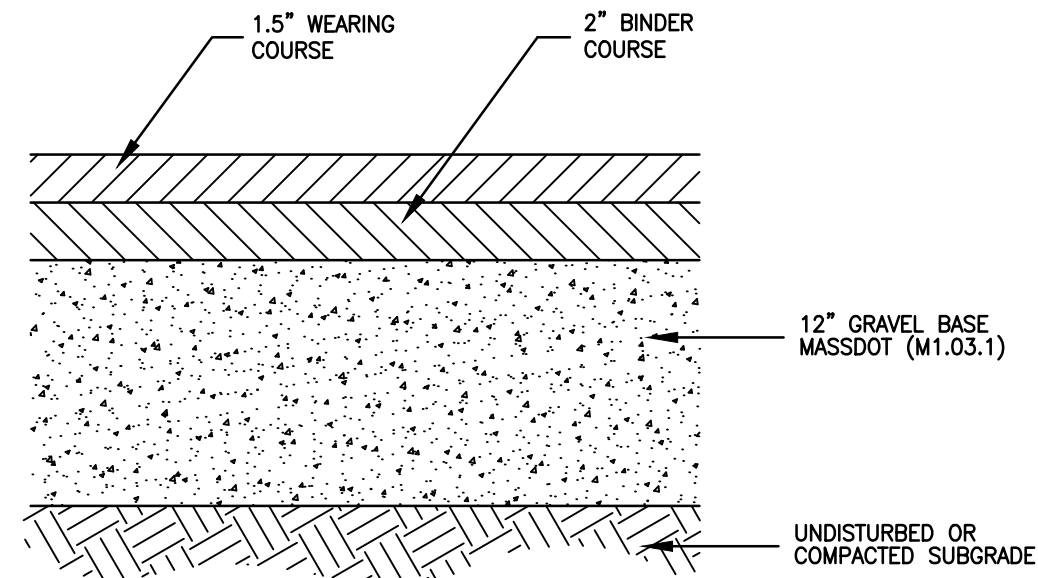
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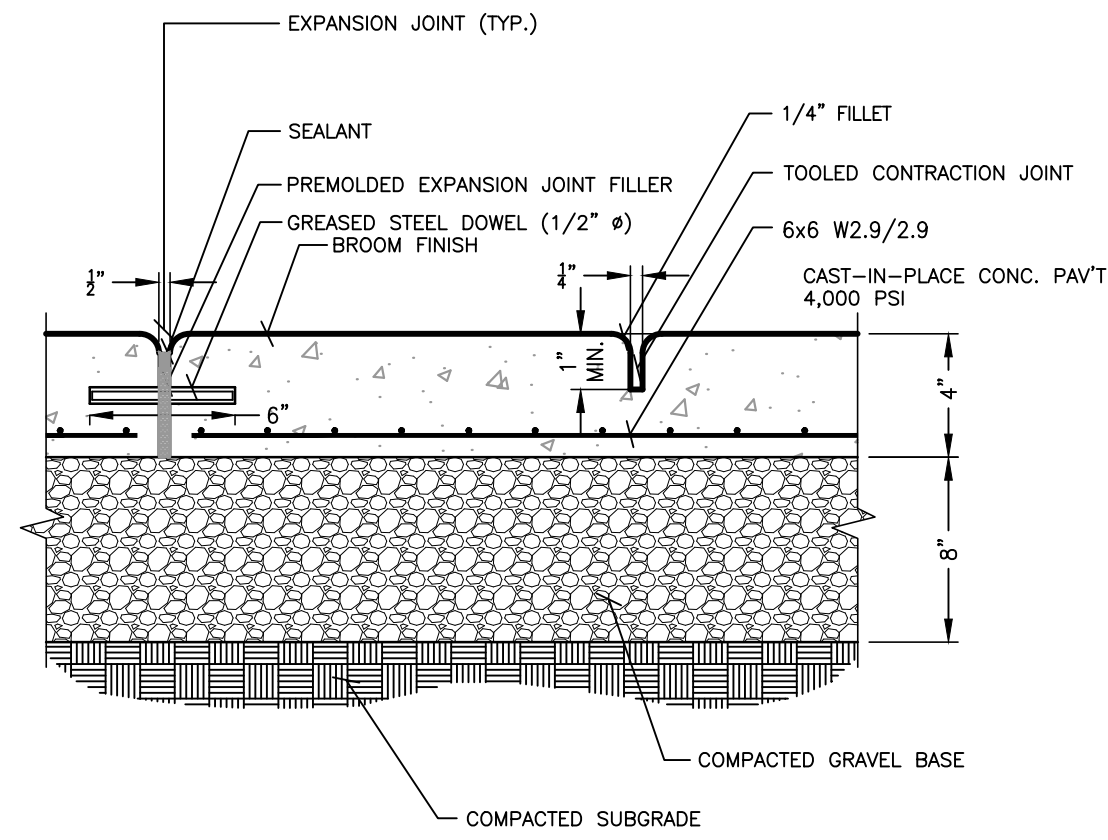
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GJM

Drawing Number
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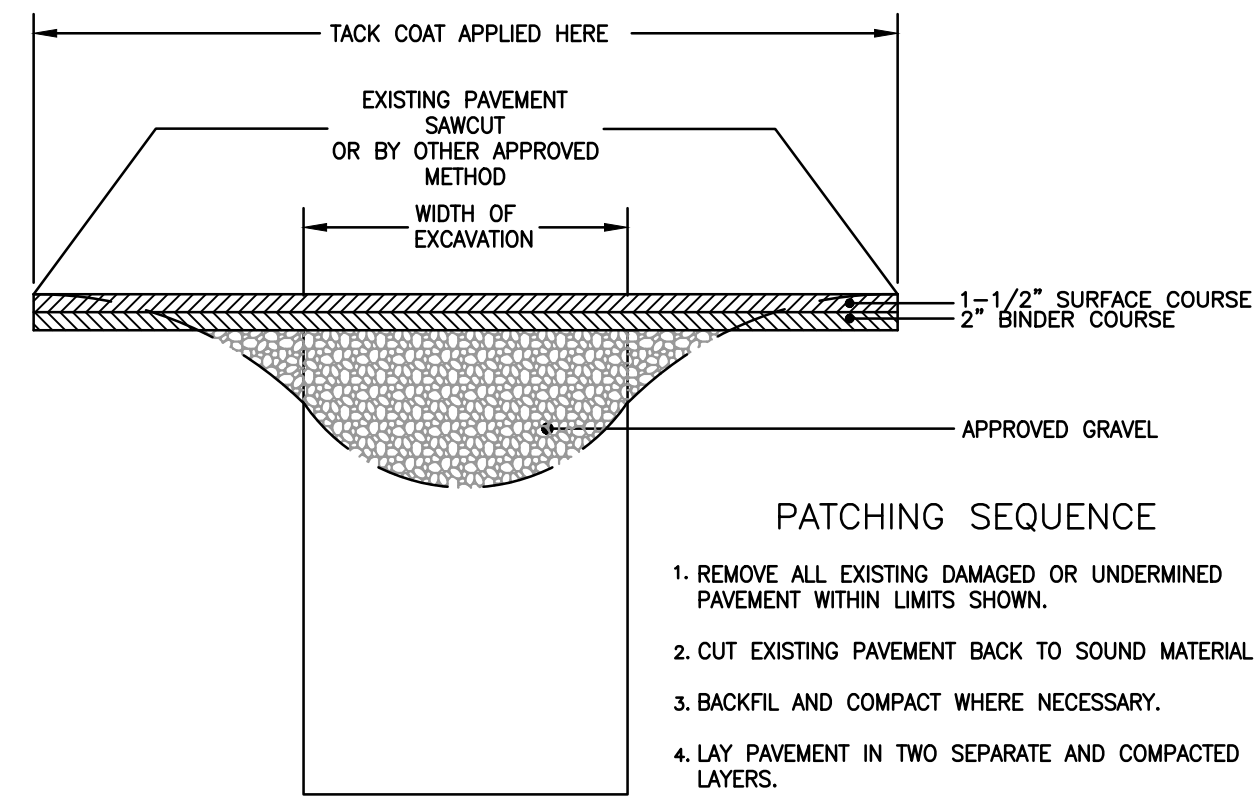
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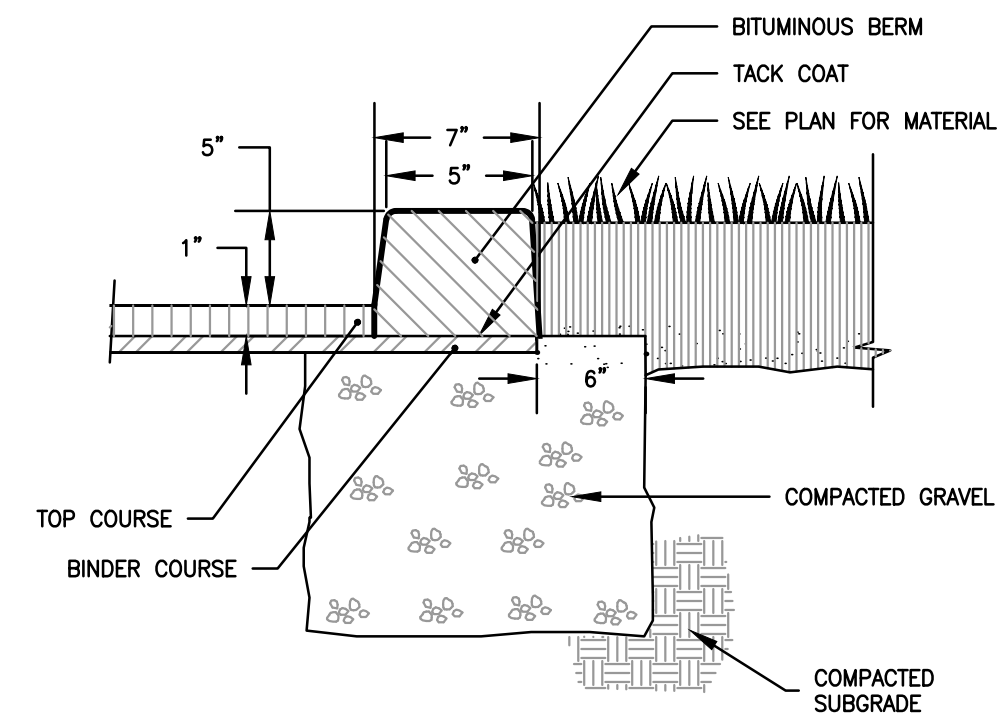
1 BITUMINOUS VEHICULAR PAVEMENT
NTS



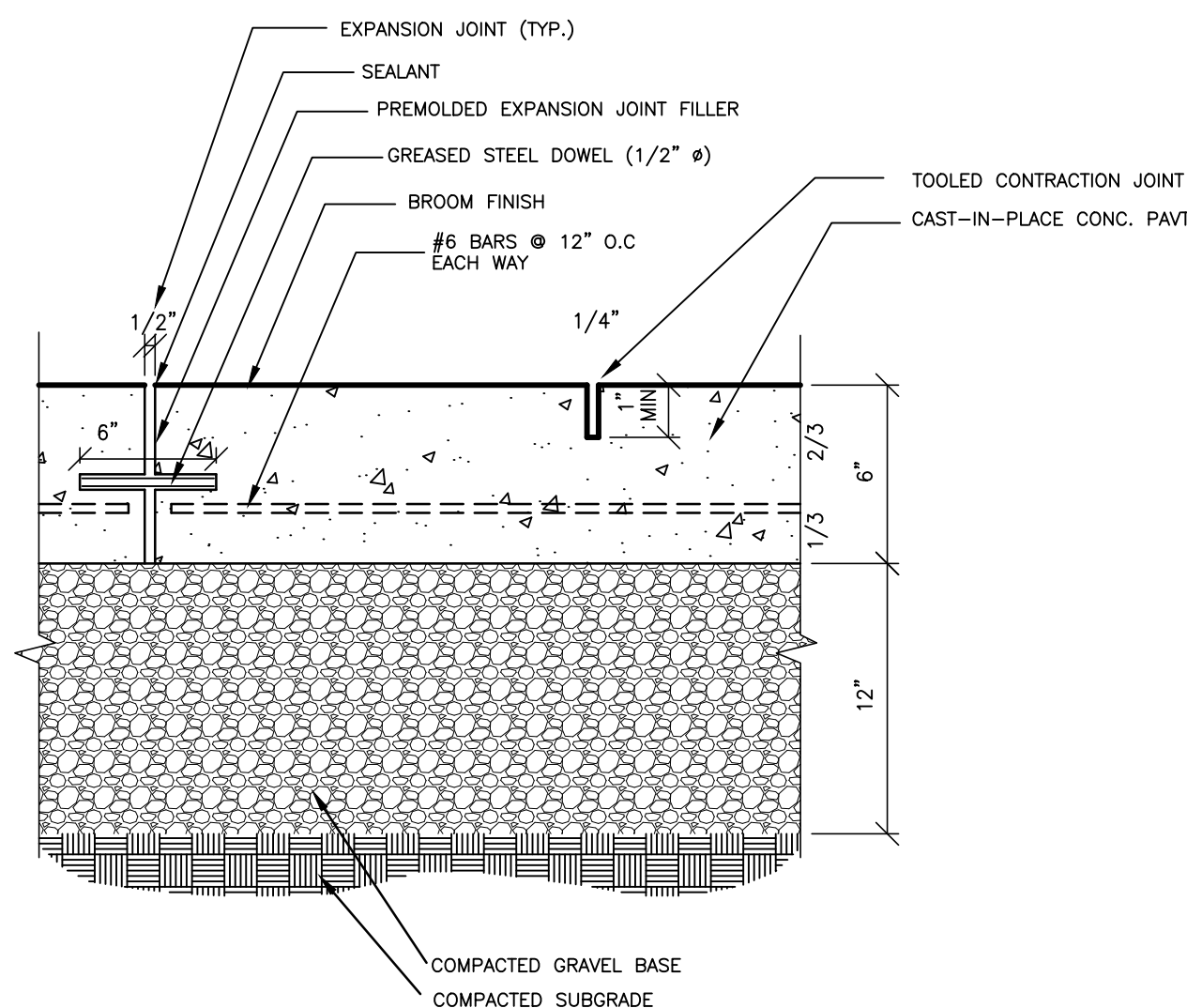
? BROOM FINISH CONCRETE WALKWAY
NTS



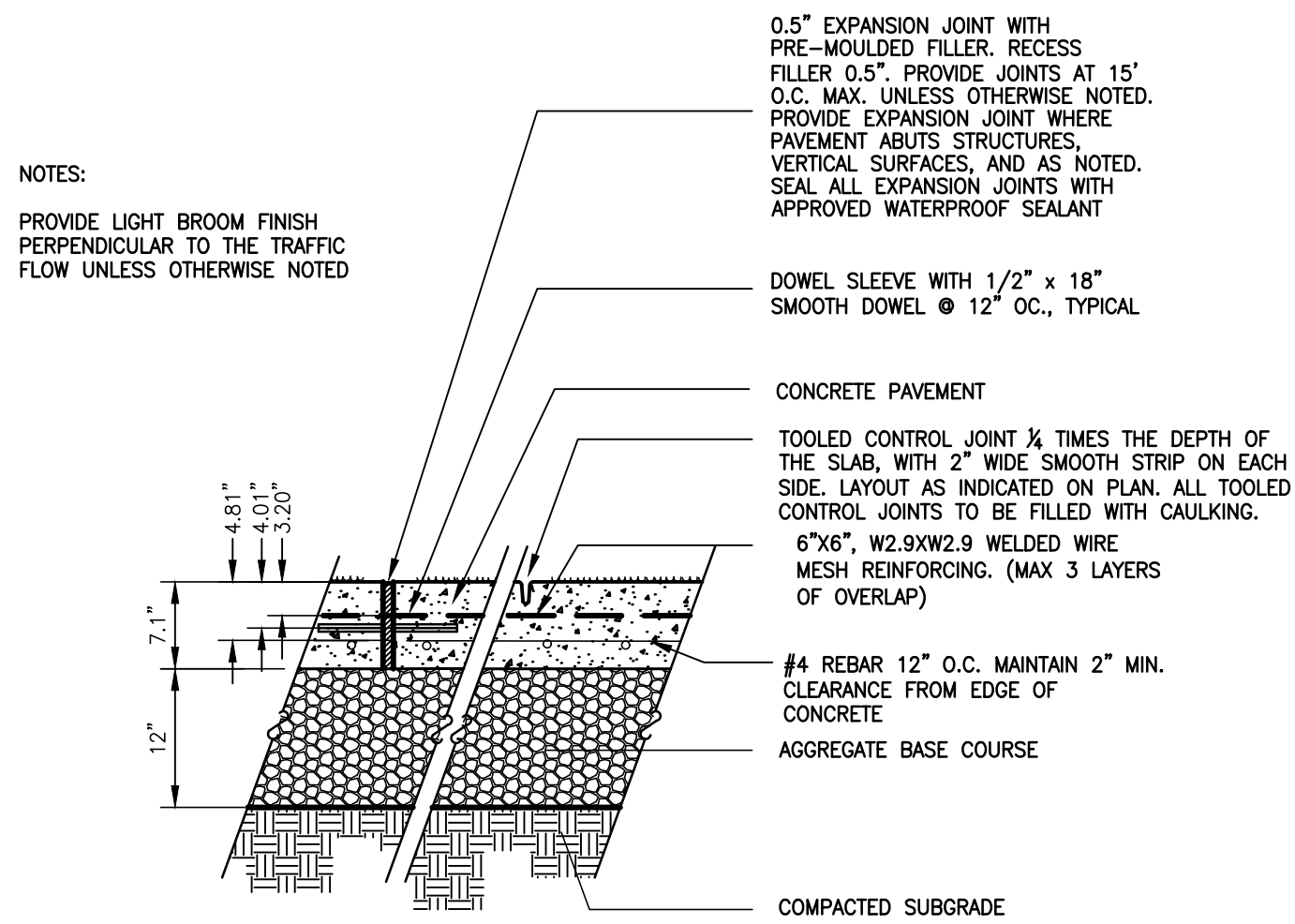
3 TRENCH PATCHING DETAIL
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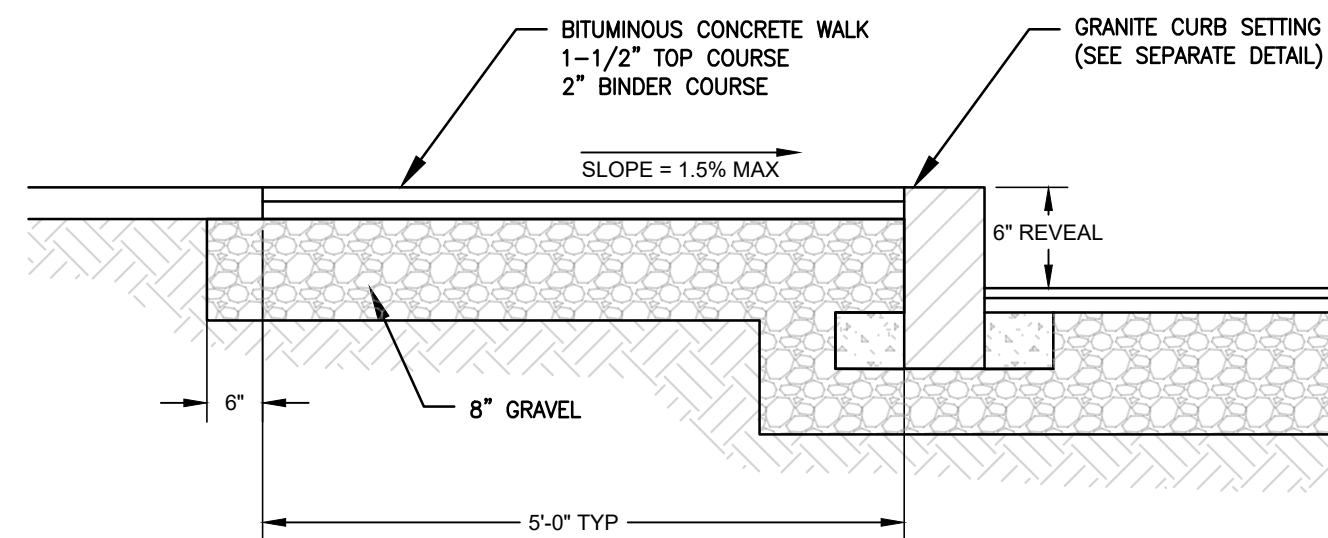
4 BITUMINOUS BERM
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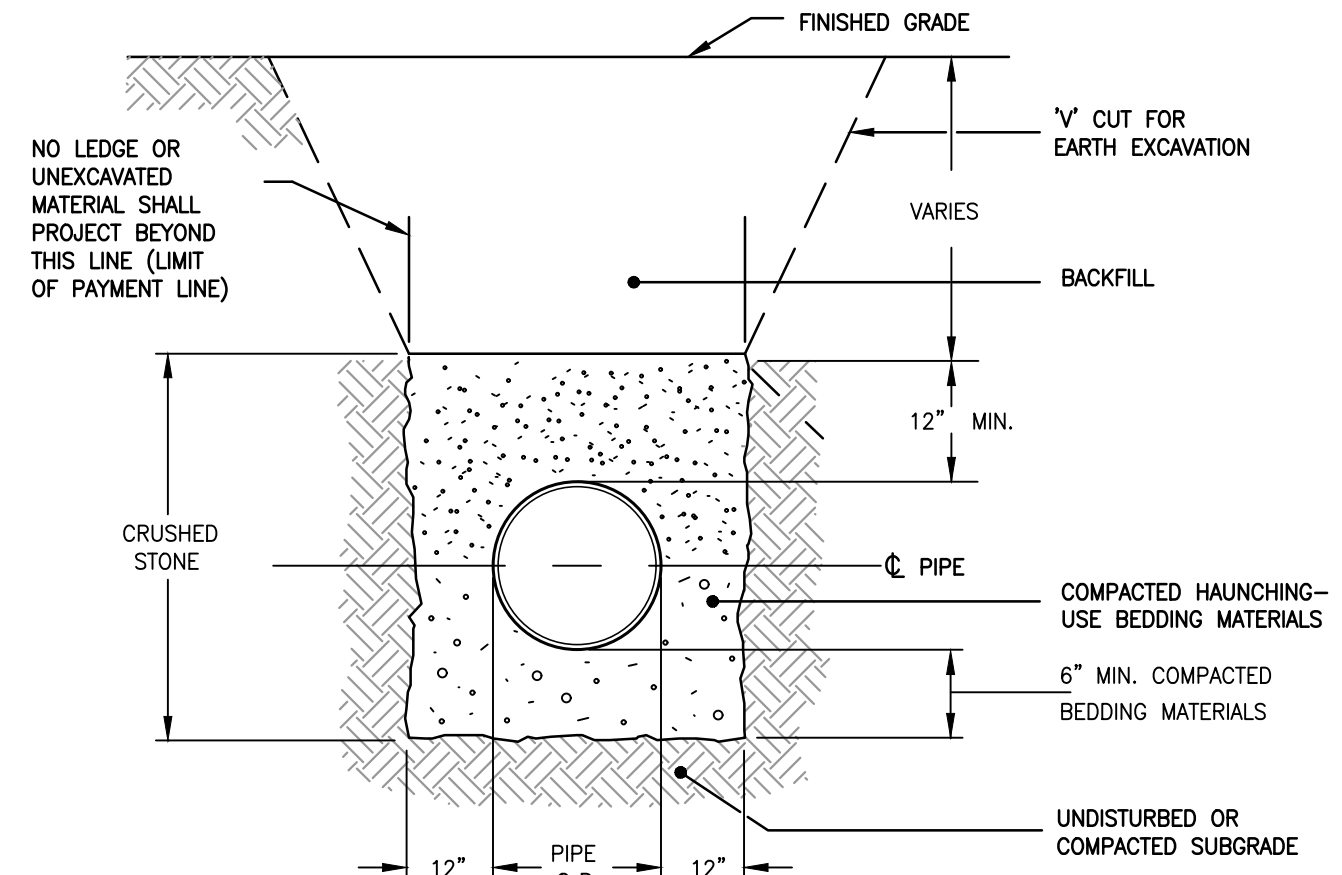
5 CONCRETE DUMPSTER PAD
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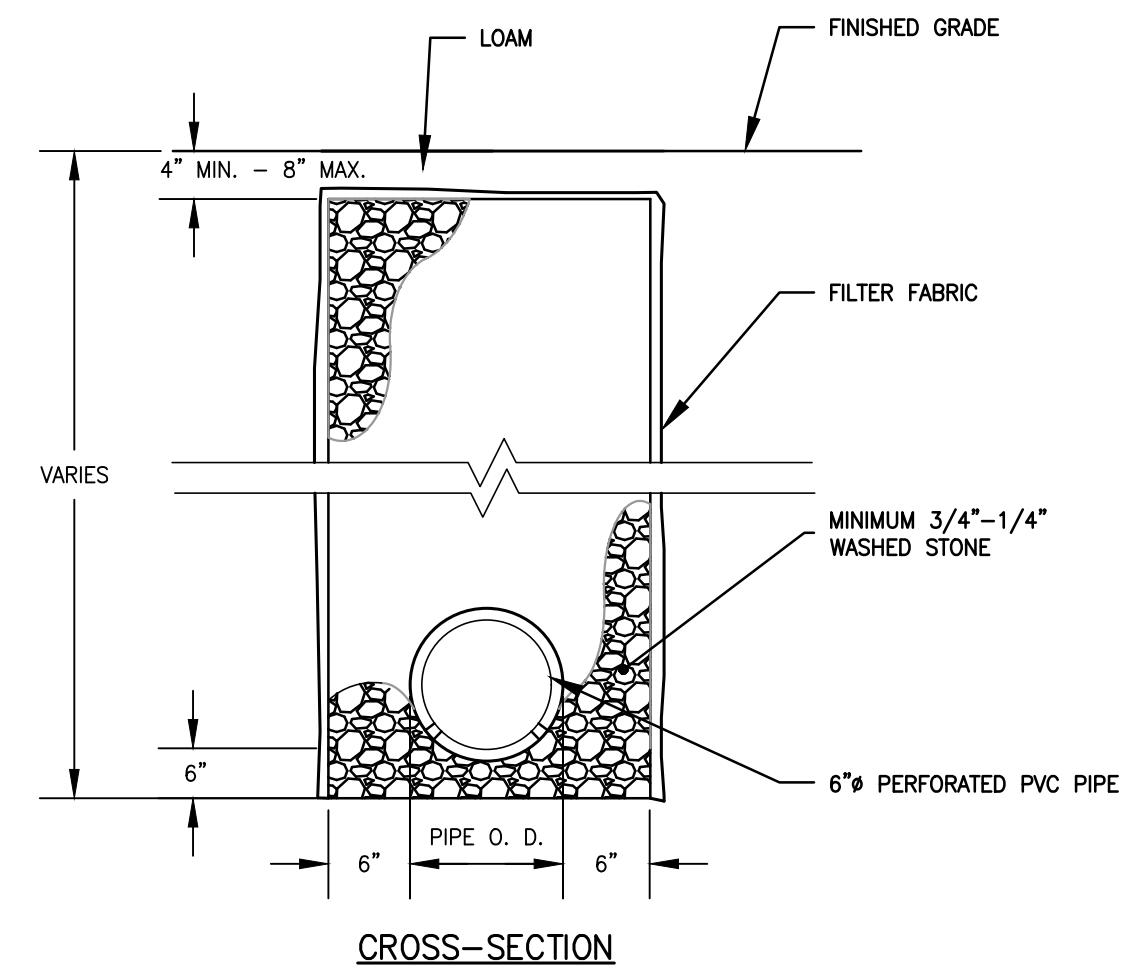
6 HEAVY DUTY CONCRETE
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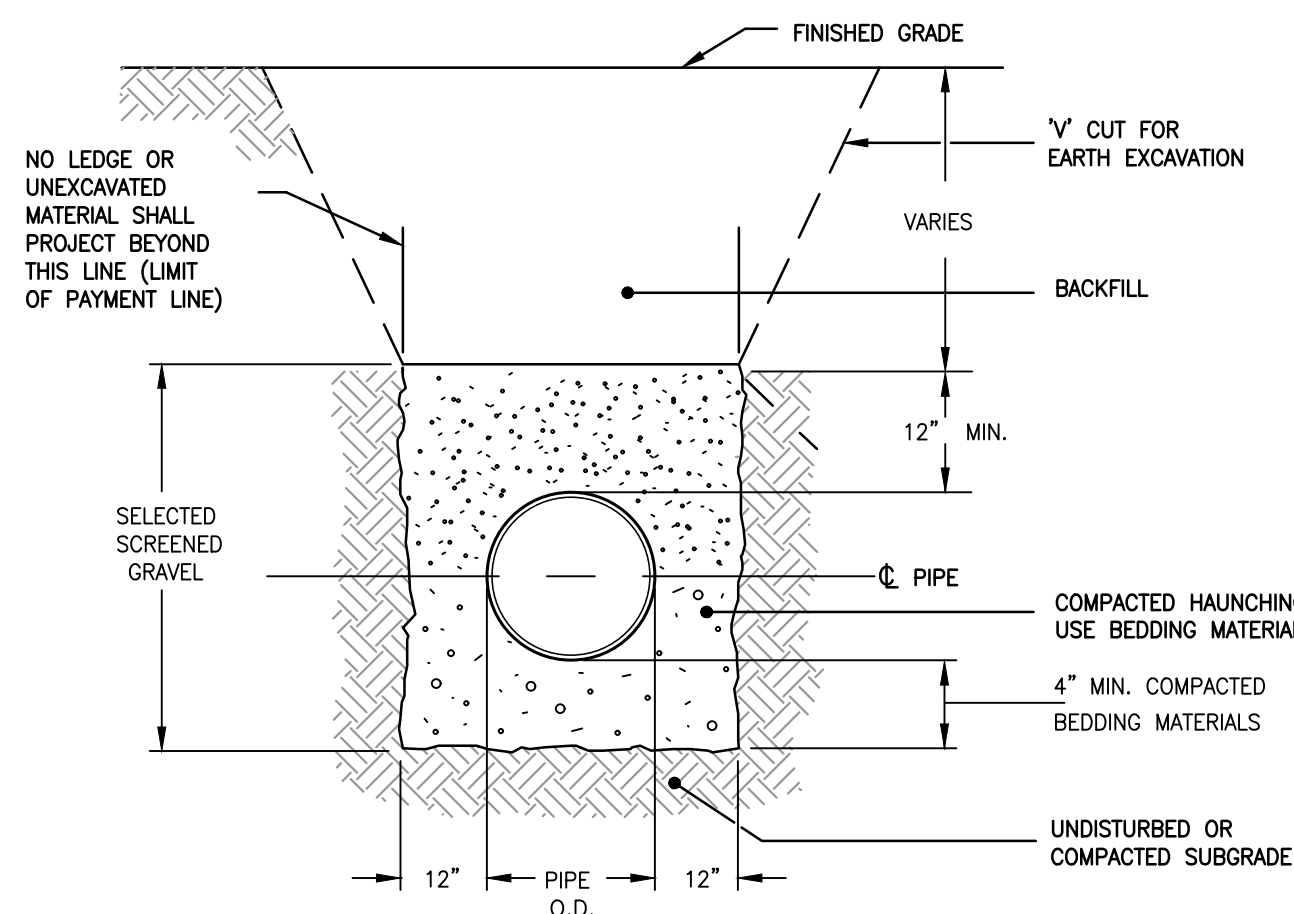
7 BITUMINOUS WALKWAY
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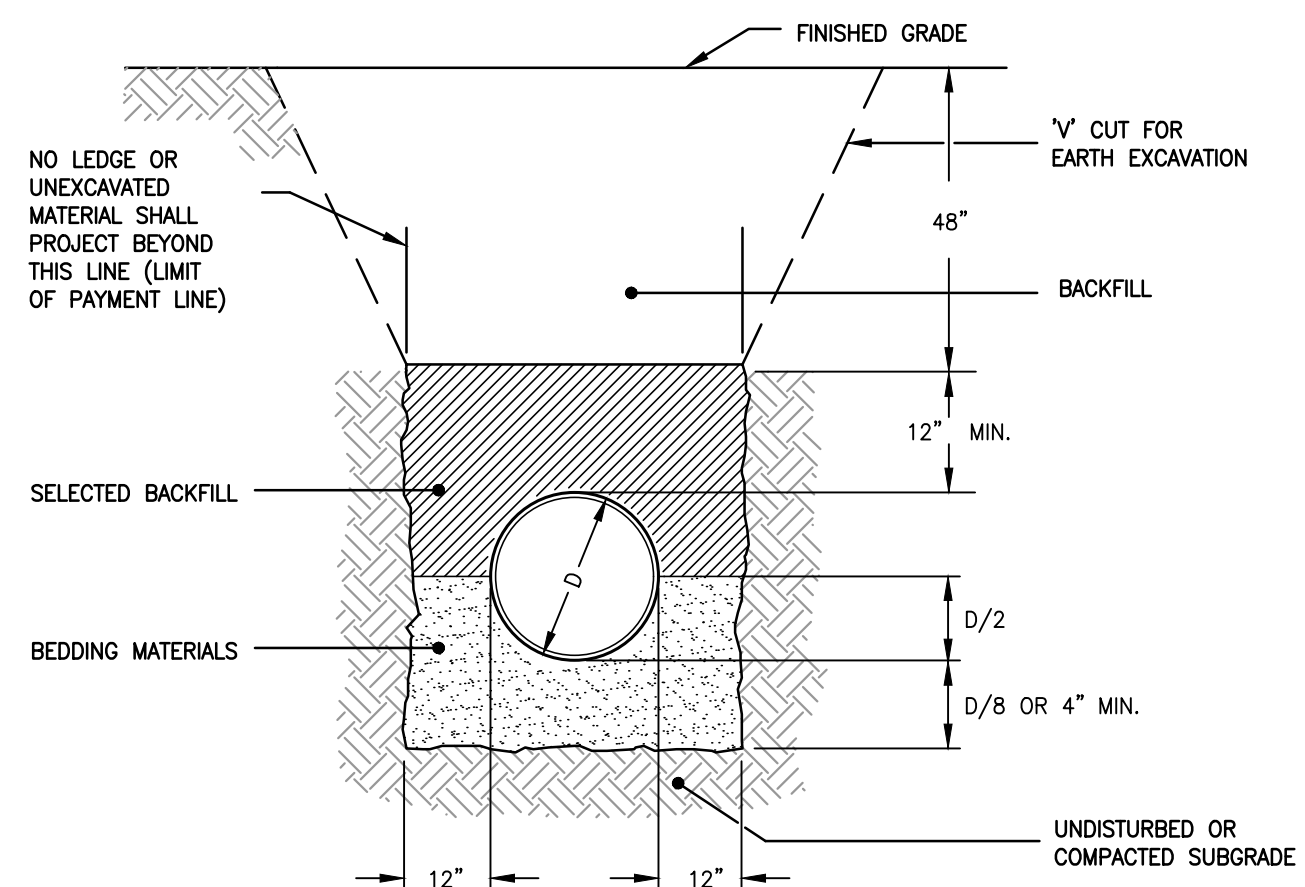
8 TRENCH SECTION- RCP PIPE
NTS



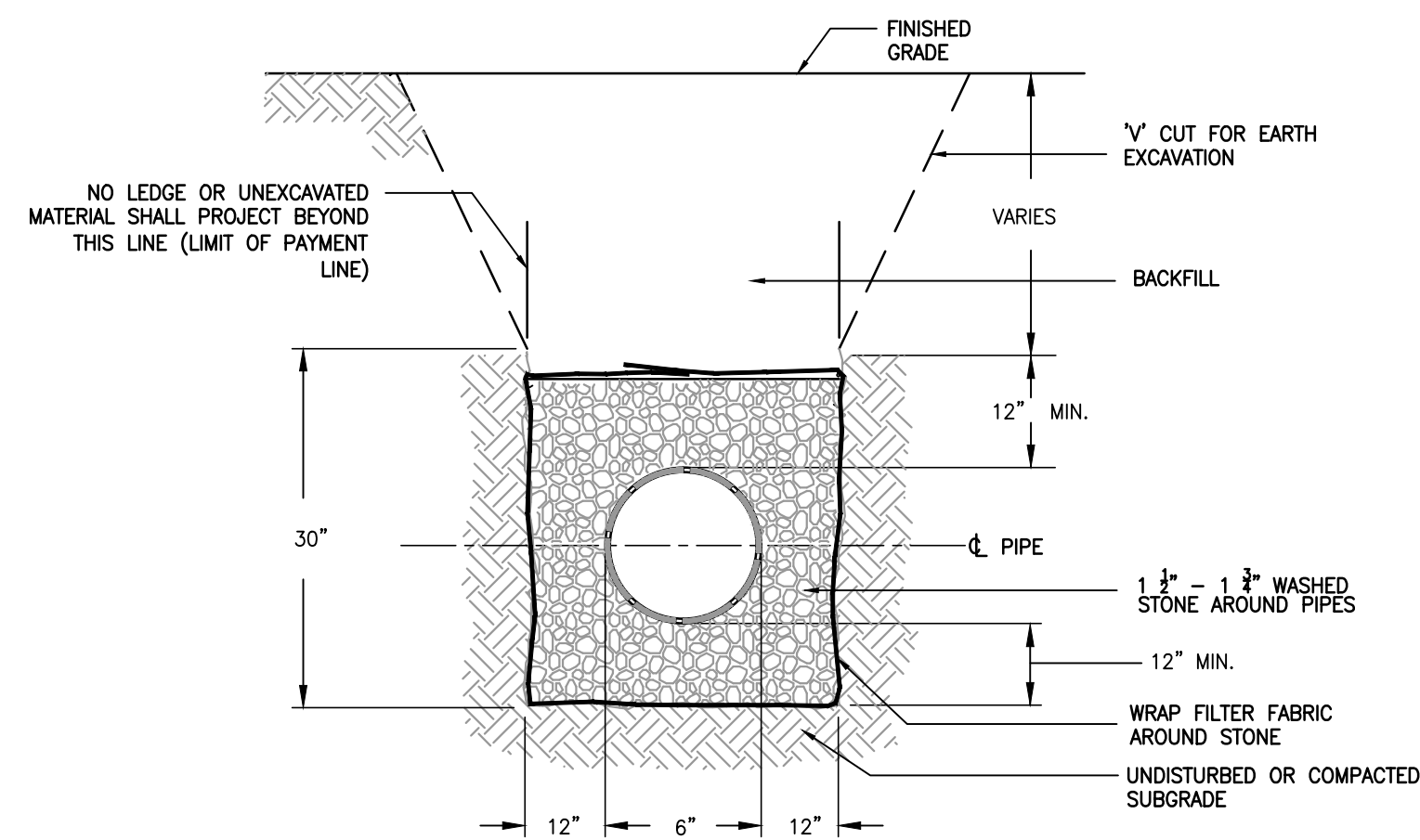
9 FOUNDATION UNDERDRAIN PIPE
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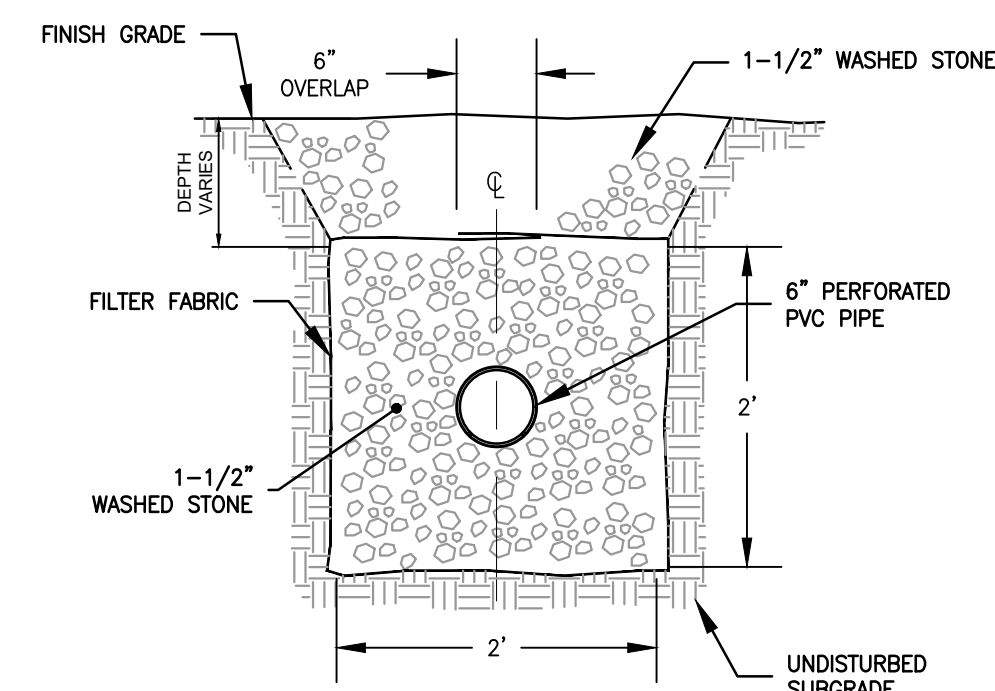
10 TRENCH SECTION- PVC GRAVITY PIPE
NTS



11 TRENCH SECTION - C.L.D.I. WATER PIPE
NTS

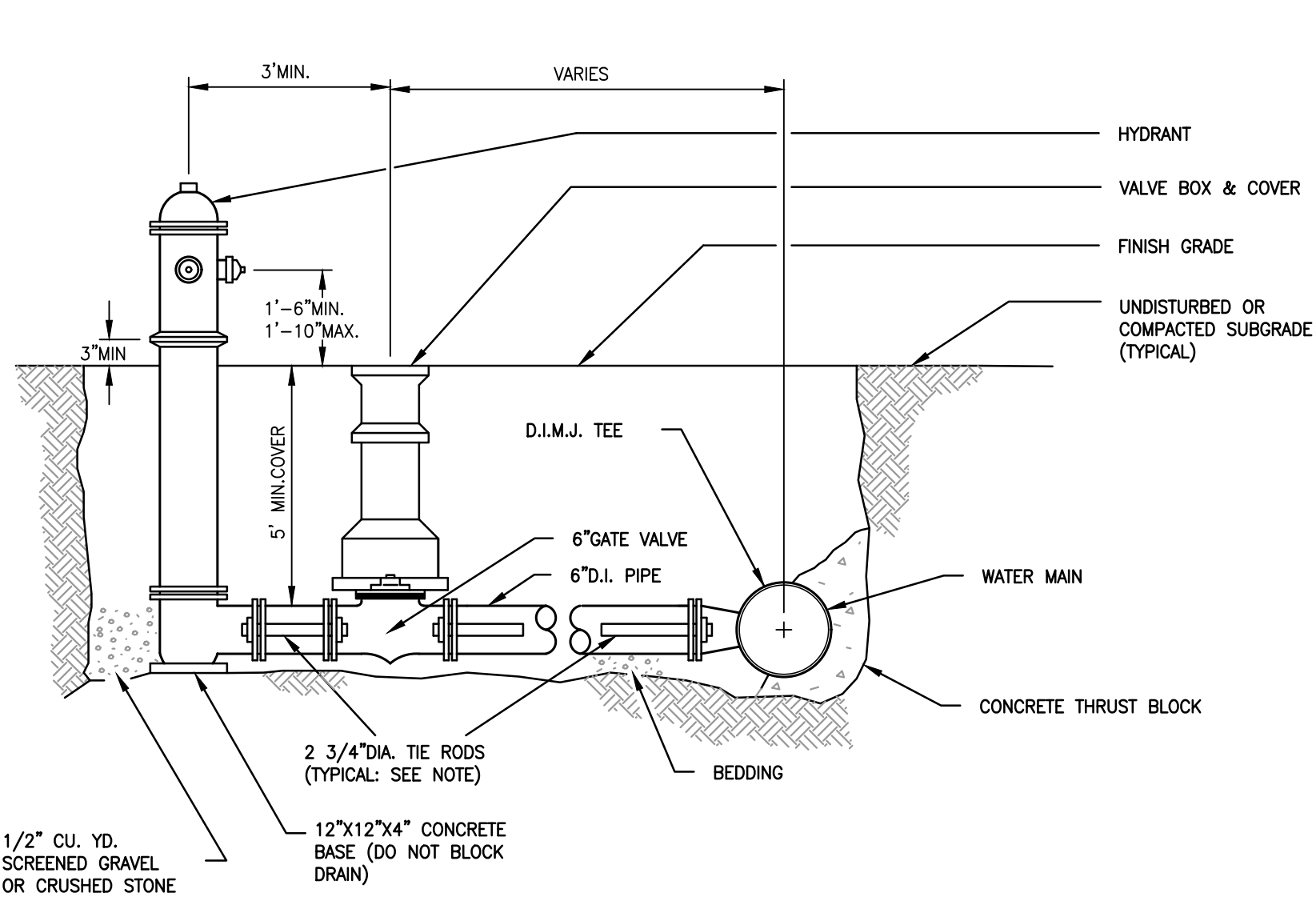


12 TRENCH SECTION - PERFORATED PVC PIPE
NTS

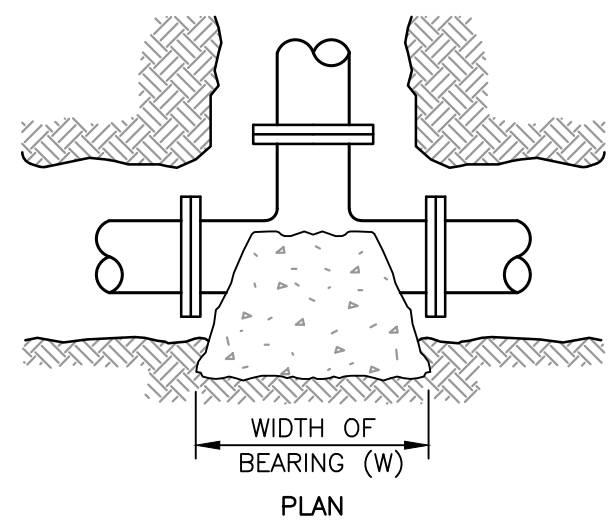


FRENCH DRAIN
NTS

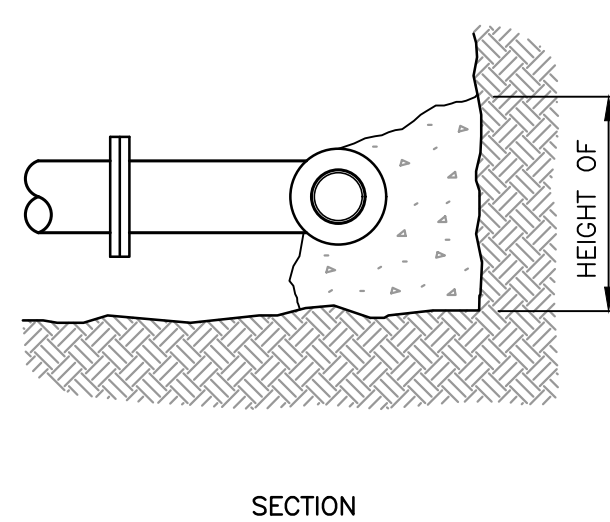
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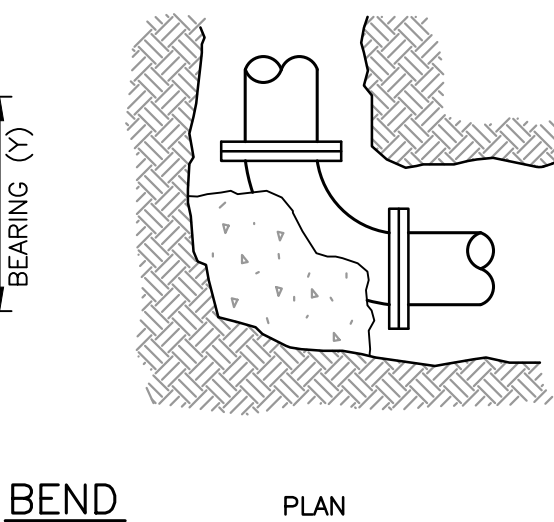
1 TYPICAL FIRE HYDRANT
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TEE

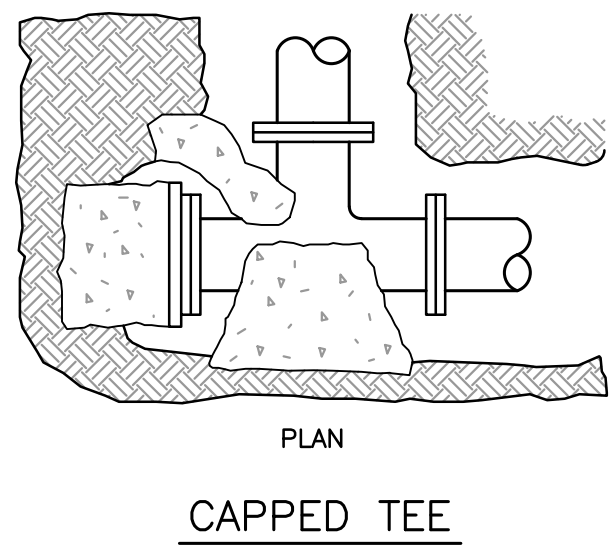


SECTION

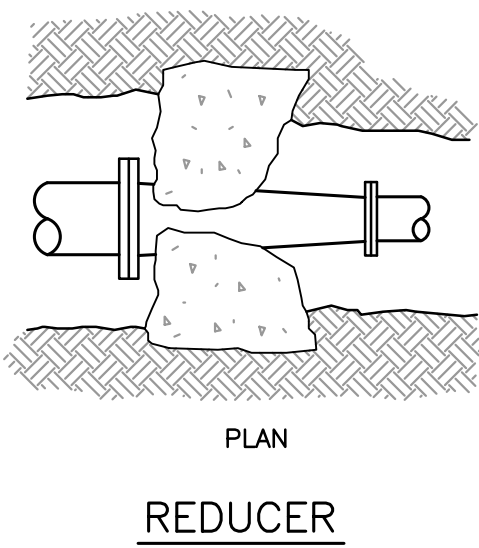


BEND

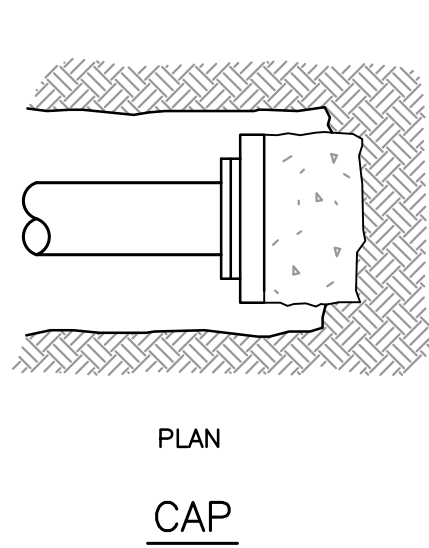
PLAN



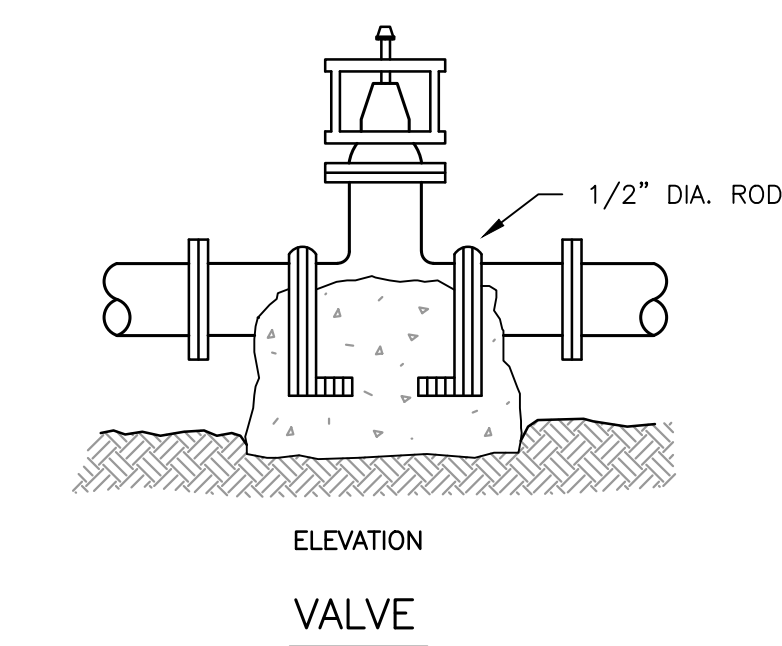
CAPPED TEE



REDUCER



CAP

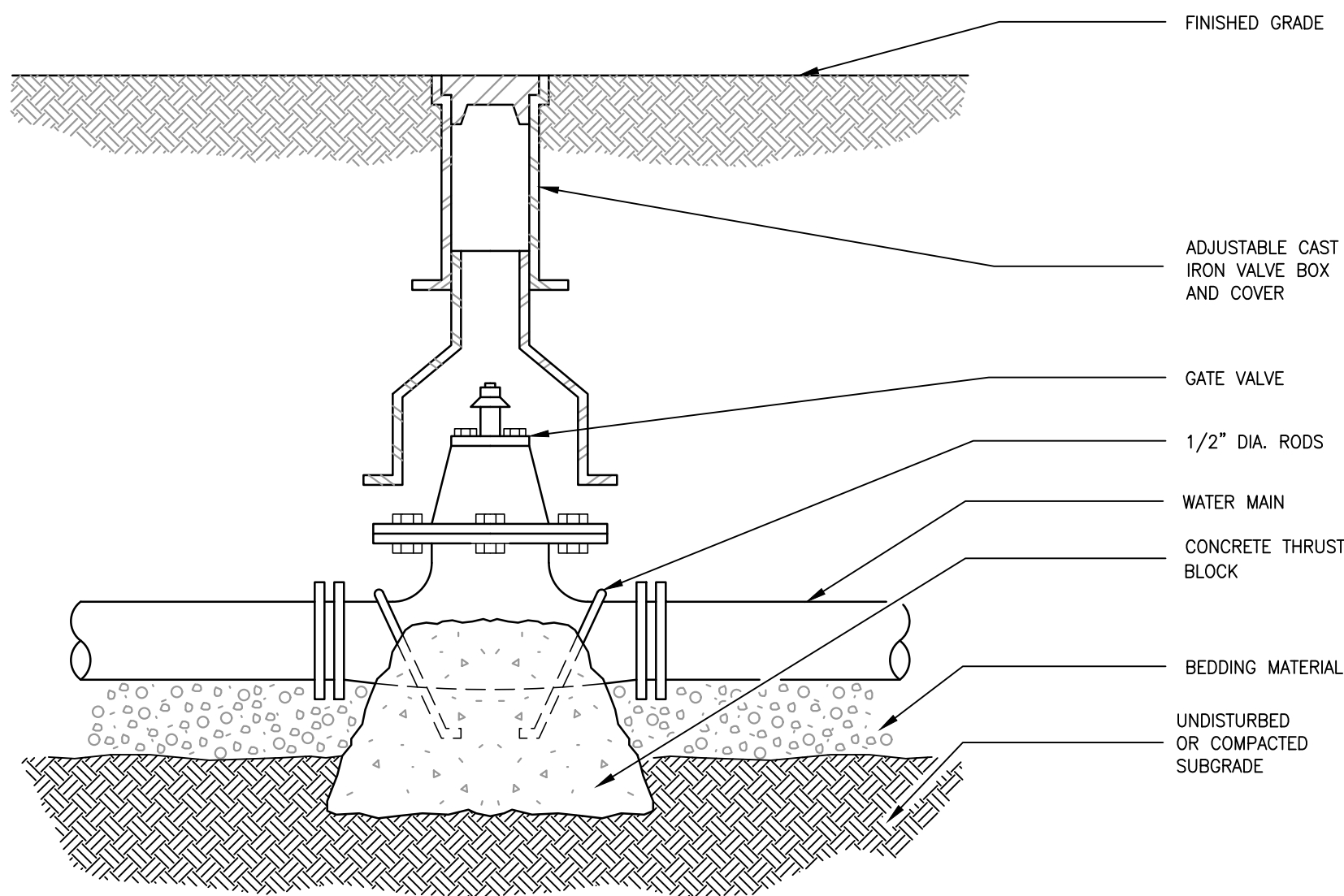


VALVE

PIPE SIZE	WATER PIPE	
	TEE, DEAD END, 90° BEND	45° & 22~8° BENDS
4" OR LESS	3 SQ. FEET	3 SQ. FEET
6"	4 SQ. FEET	3 SQ. FEET
8"	6 SQ. FEET	3 SQ. FEET
10"	9 SQ. FEET	5 SQ. FEET
12"	13 SQ. FEET	7 SQ. FEET
16"	23 SQ. FEET	12 SQ. FEET

- THRUST BLOCKS TO EXTEND TO UNDISTURBED GROUND.
- ALL CONCRETE SHALL BE CLASS B.
- TABLE IS BASED ON 3000 LB./SQ. FT. SOIL. IF SOIL CONDITIONS ARE FOUND TO INDICATE SOIL BEARING LESS, THE AREAS SHALL BE INCREASED ACCORDINGLY.
- AREAS FOR PIPES GREATER THAN 16" SHALL BE CALCULATED FOR EACH PROJECT.
- FOR ALL NON BEARING VERTICAL SURFACES.

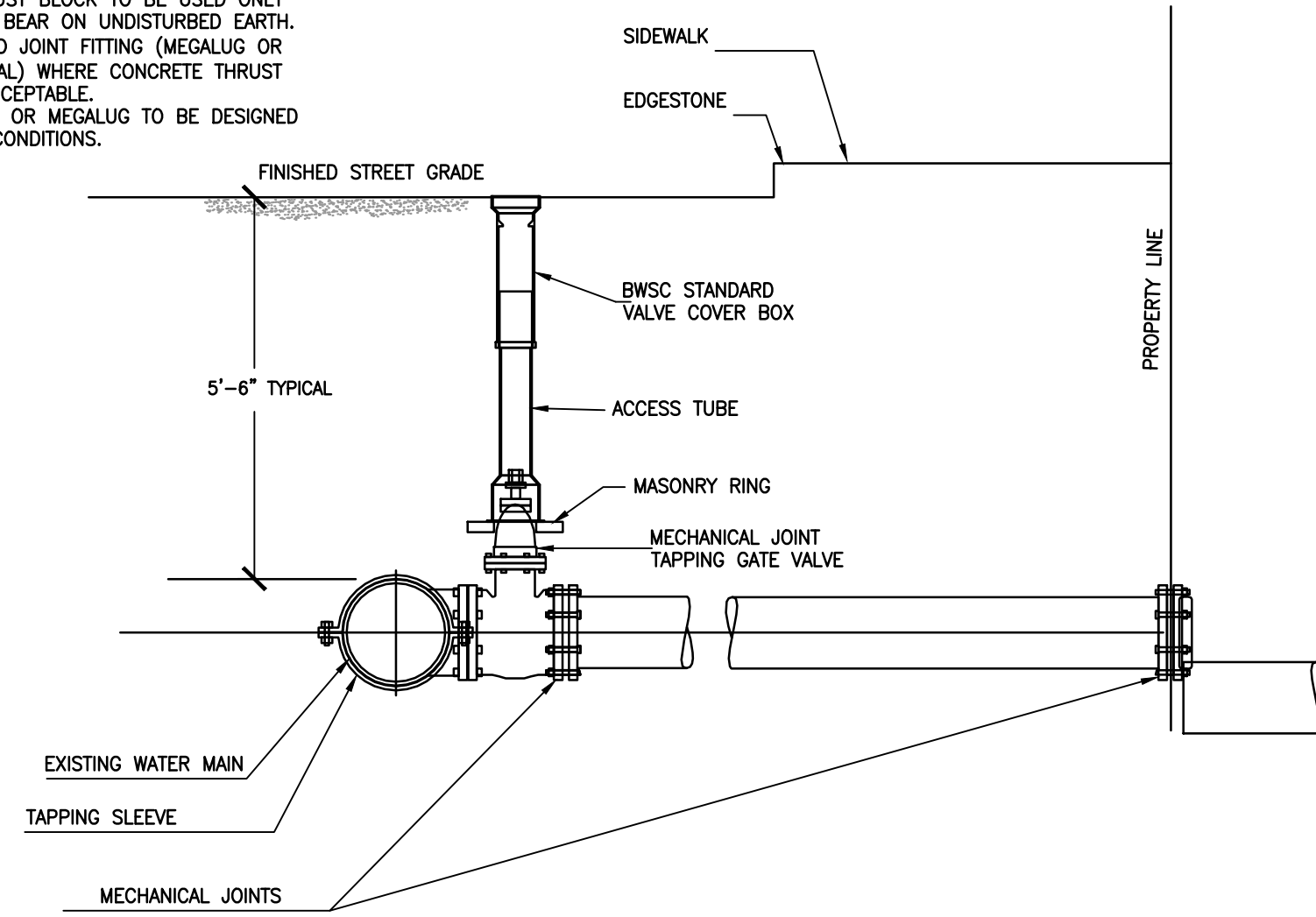
4 THRUST BLOCKS (WATER SYSTEM)
NTS



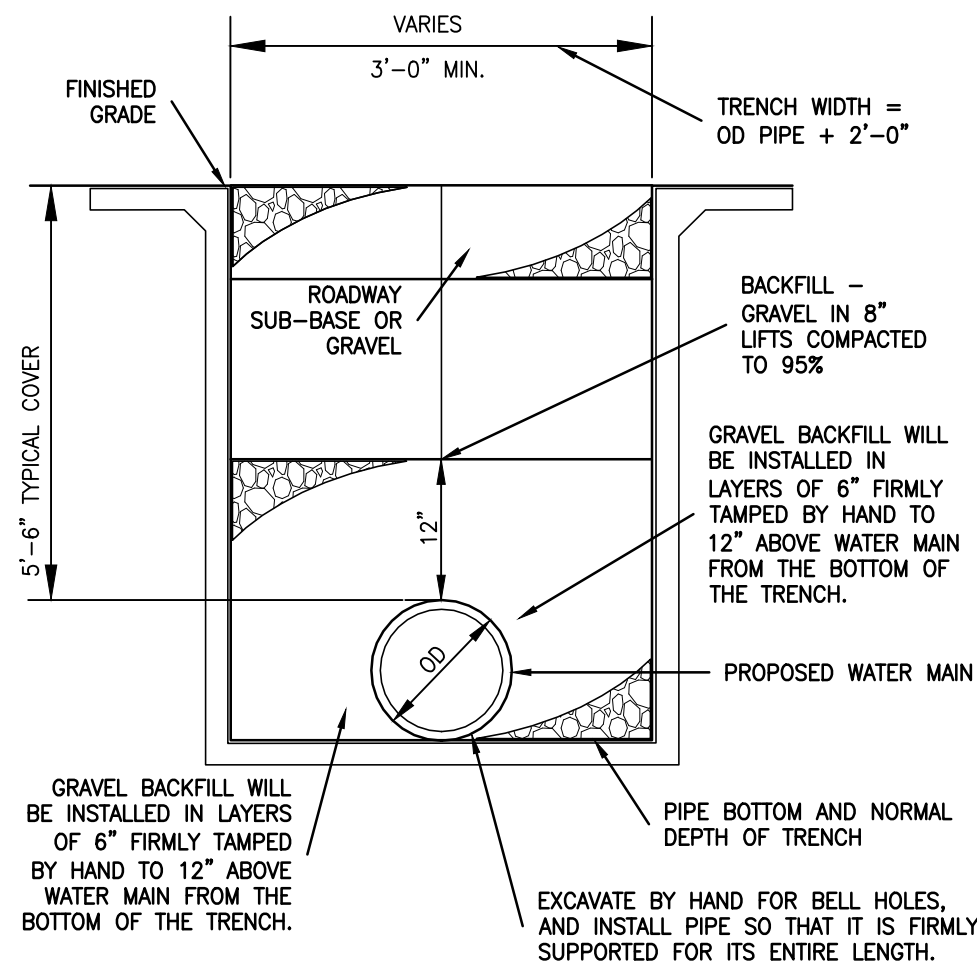
2 GATE VALVE AND BOX
NTS

NOTES:

CONCRETE THRUST BLOCK TO BE USED ONLY WHERE IT WILL BEAR ON UNDISTURBED EARTH. USE RESTRAINED JOINT FITTING (MEGALUG OR APPROVED EQUAL) WHERE CONCRETE THRUST BLOCK IS UNACCEPTABLE. SIZE OF BLOCK OR MEGALUG TO BE DESIGNED FOR SPECIFIC CONDITIONS.



3 WATER PIPE CONNECTION WITH TAPPING SLEEVE AND GATE VALVE



5 WATER MAIN TRENCH IN FIRM GROUND
NTS

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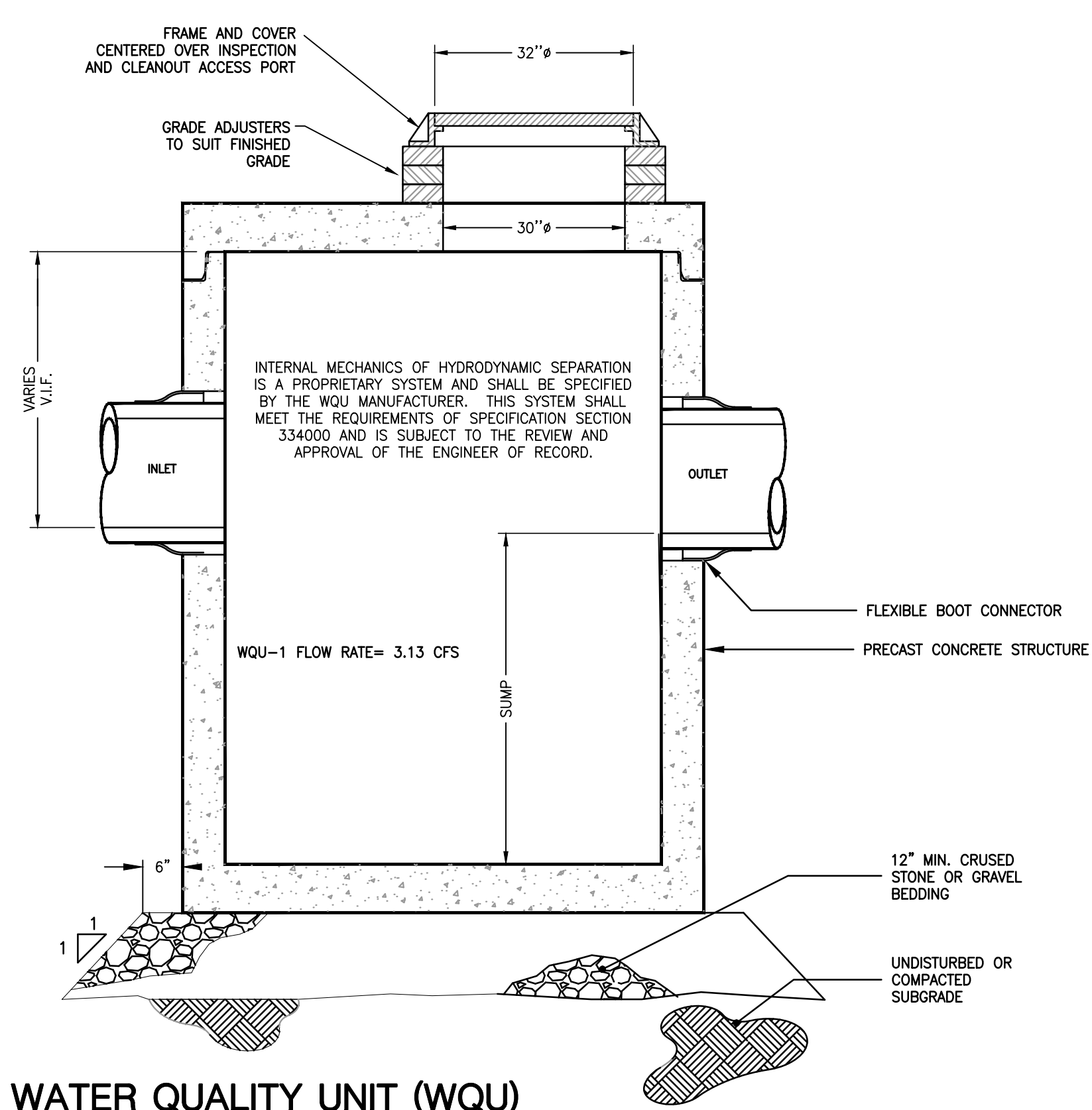
Scale
As Noted

Drawn By
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Drawing Number

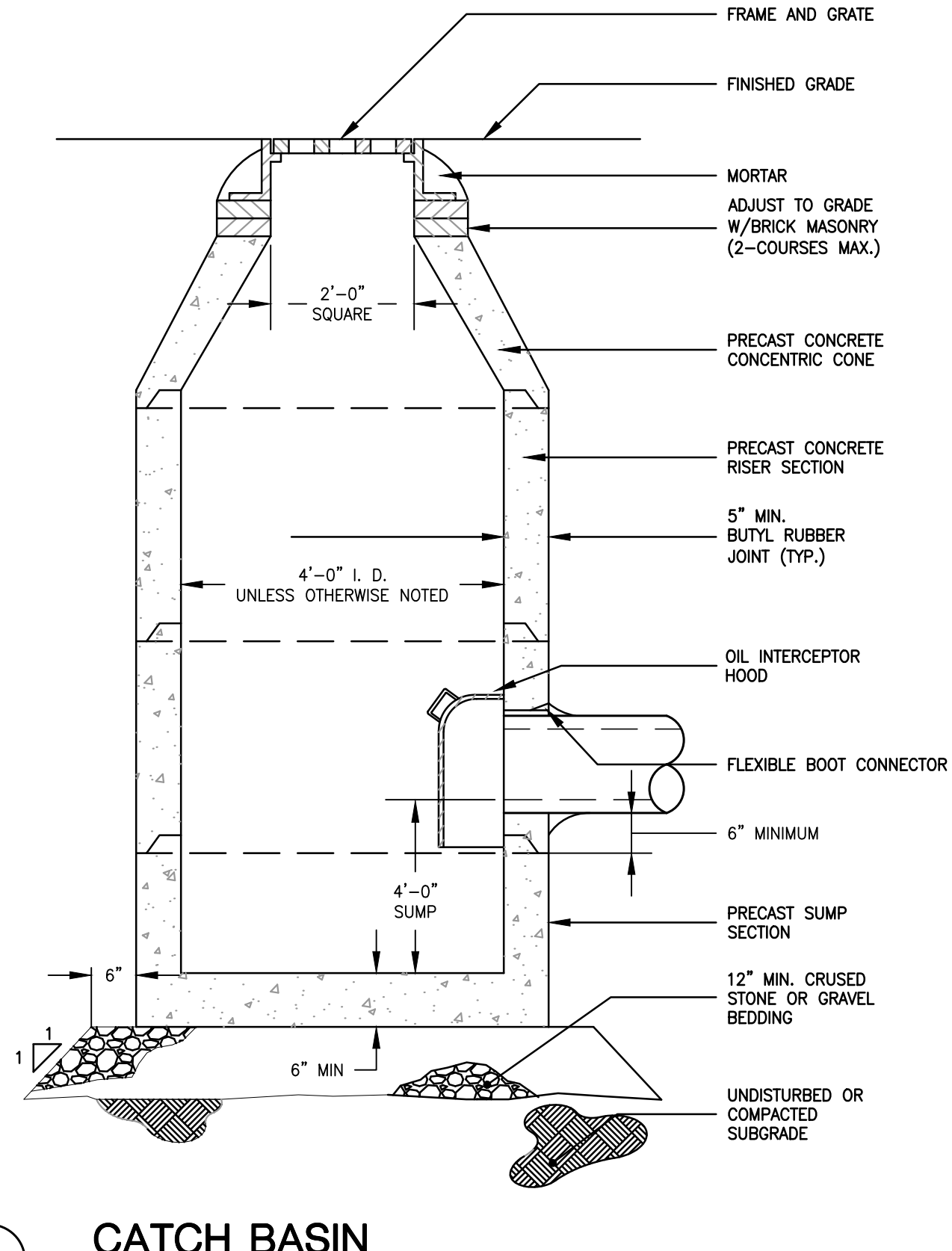
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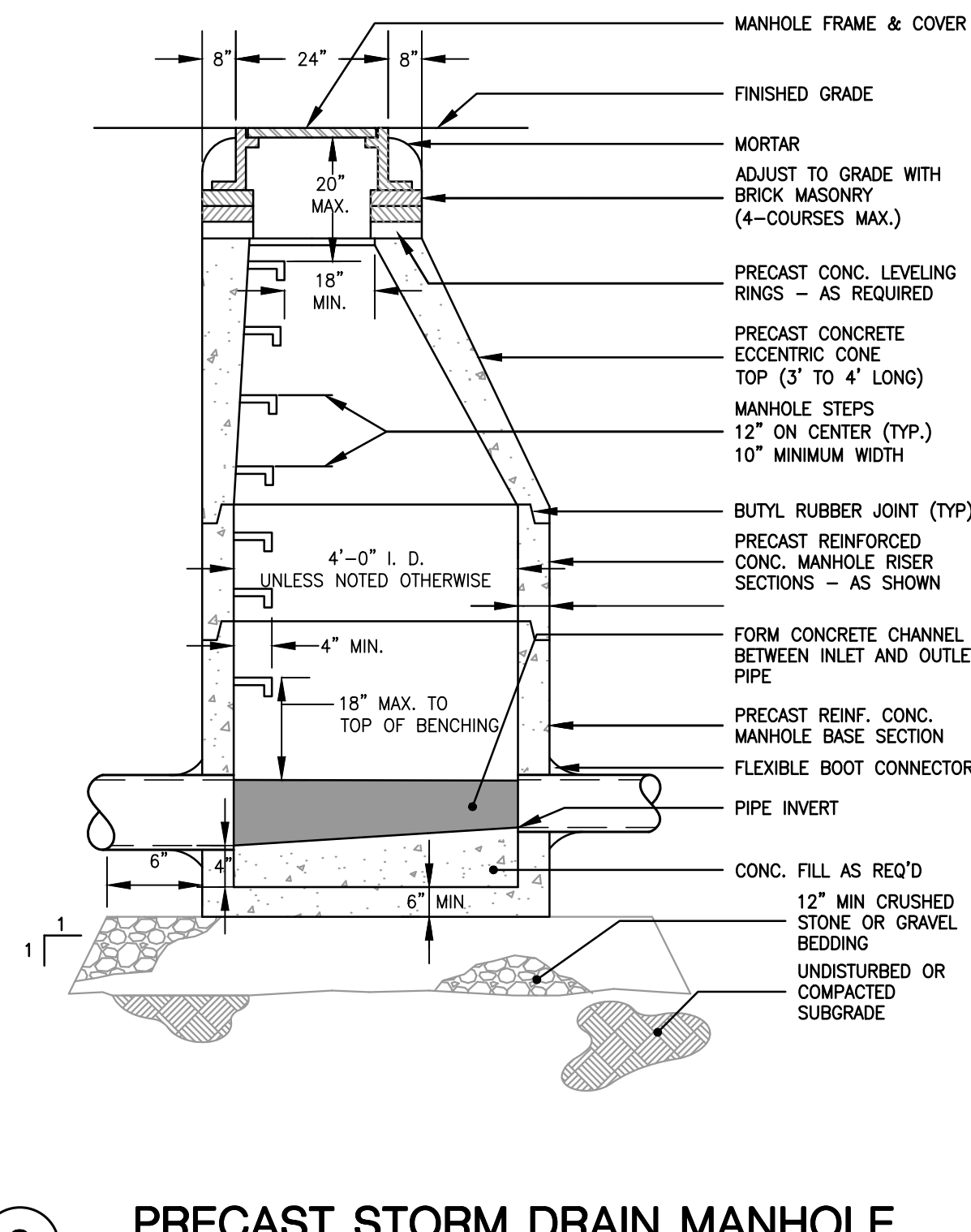
1 WATER QUALITY UNIT (WQU)

NTS



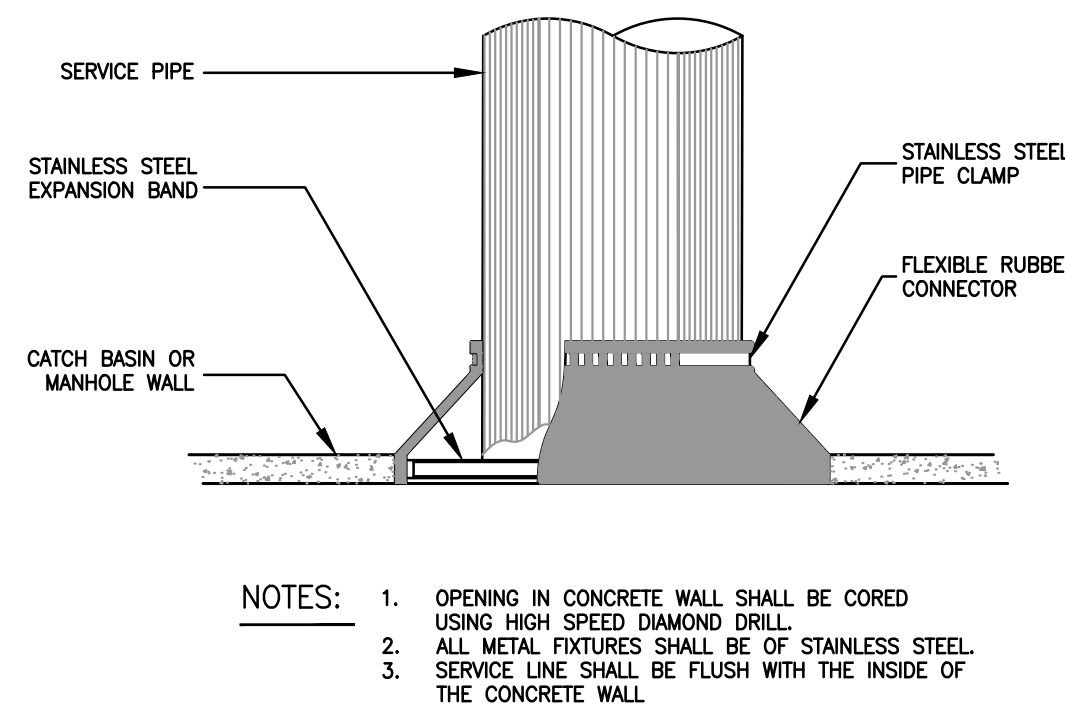
2 CATCH BASIN

NTS



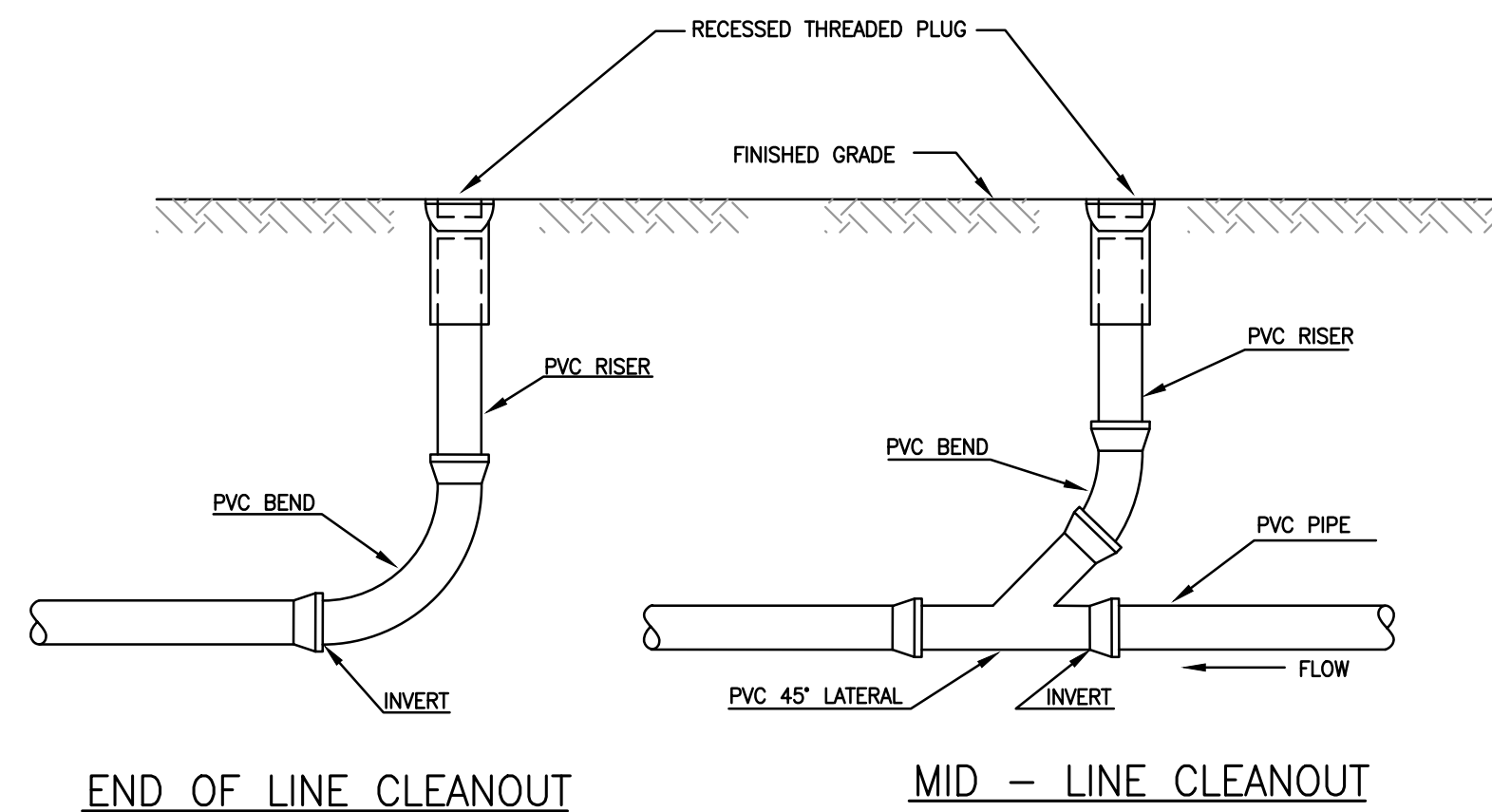
3 PRECAST STORM DRAIN MANHOLE

NTS



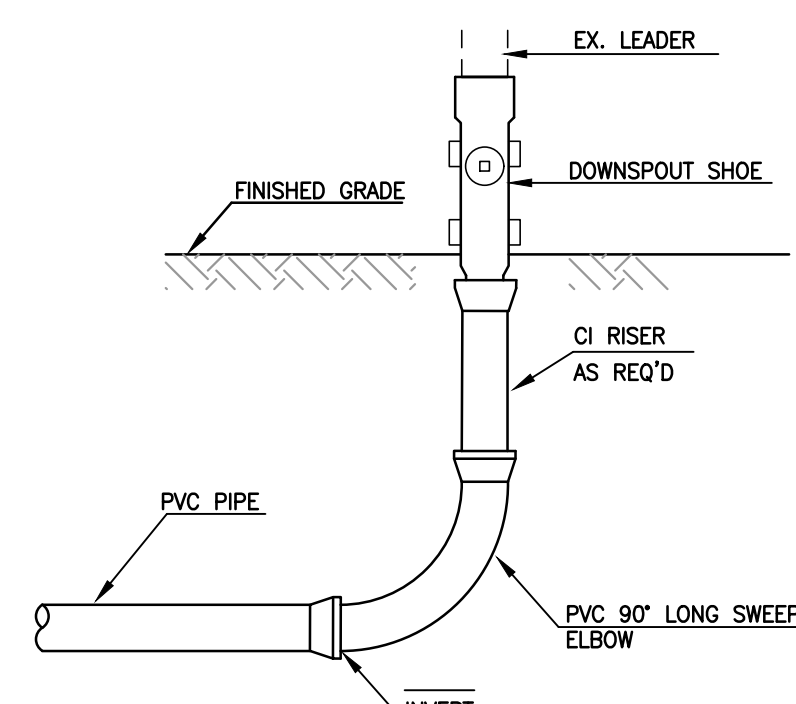
4 PIPE CONNECTION TO MANHOLE

NTS



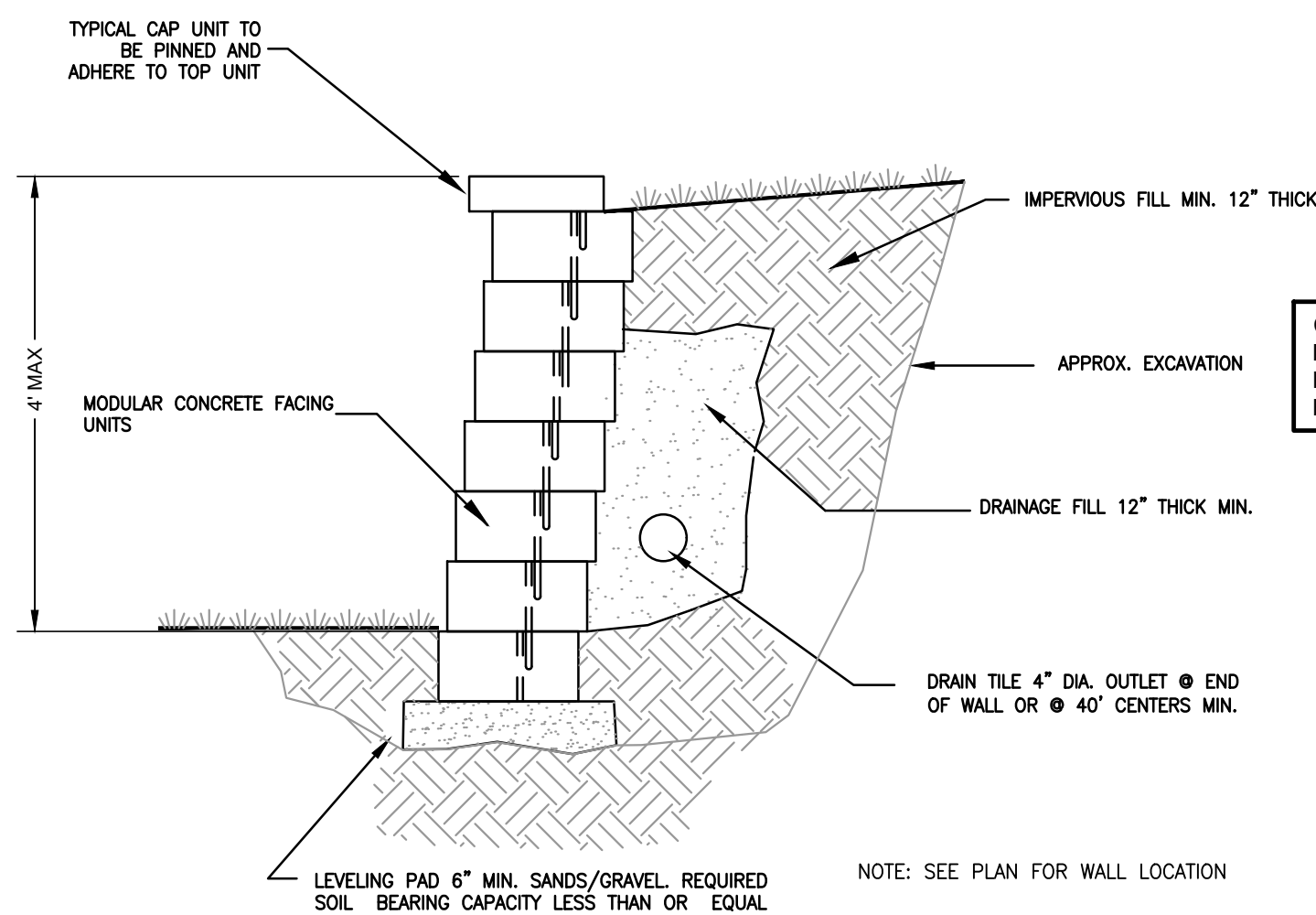
5 CLEANOUT

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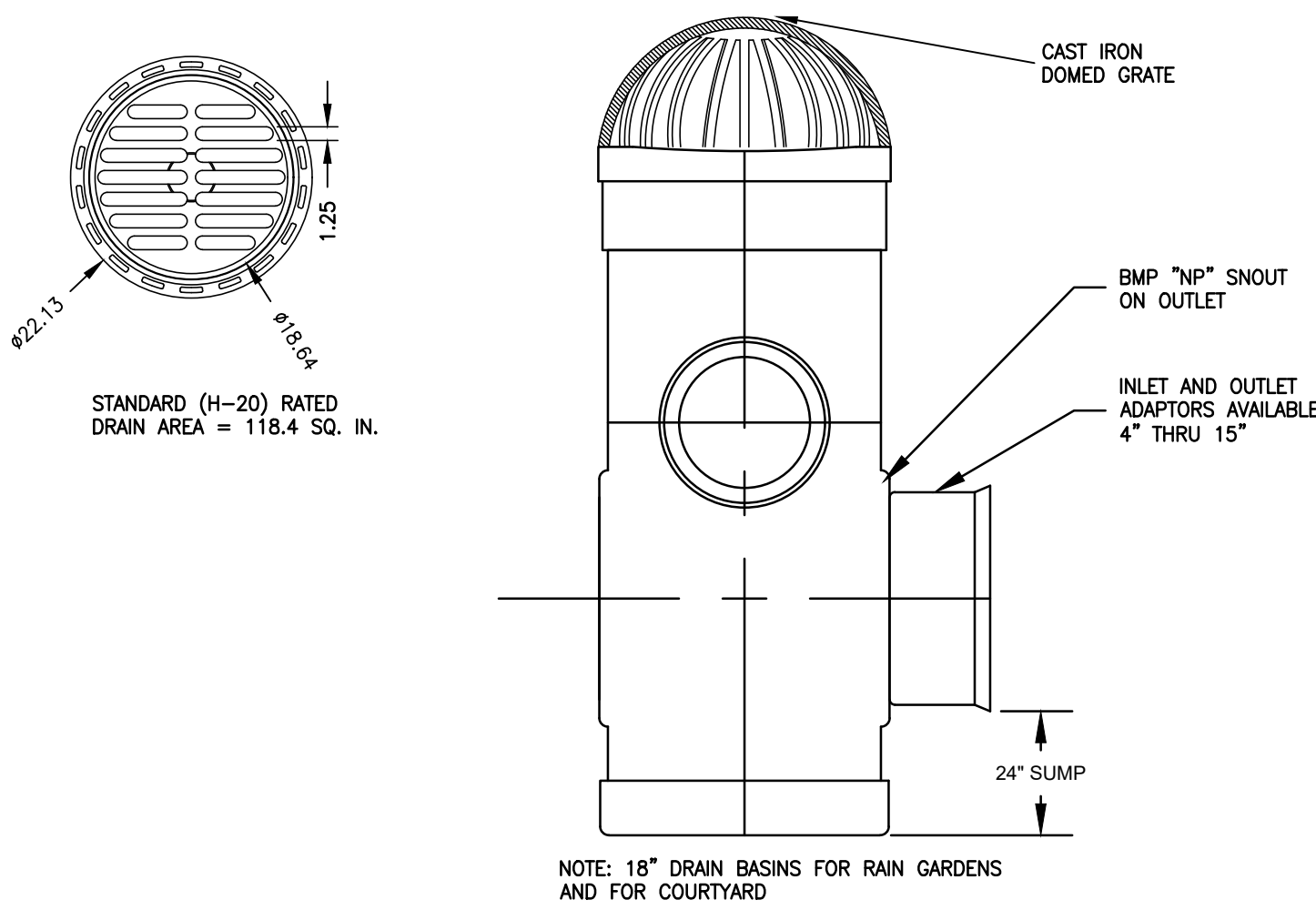
6 ROOF LEADER

NTS



6 SEGMENTAL (UNREINFORCED) RETAINING WALL FENCE (SMALL BLOCK)

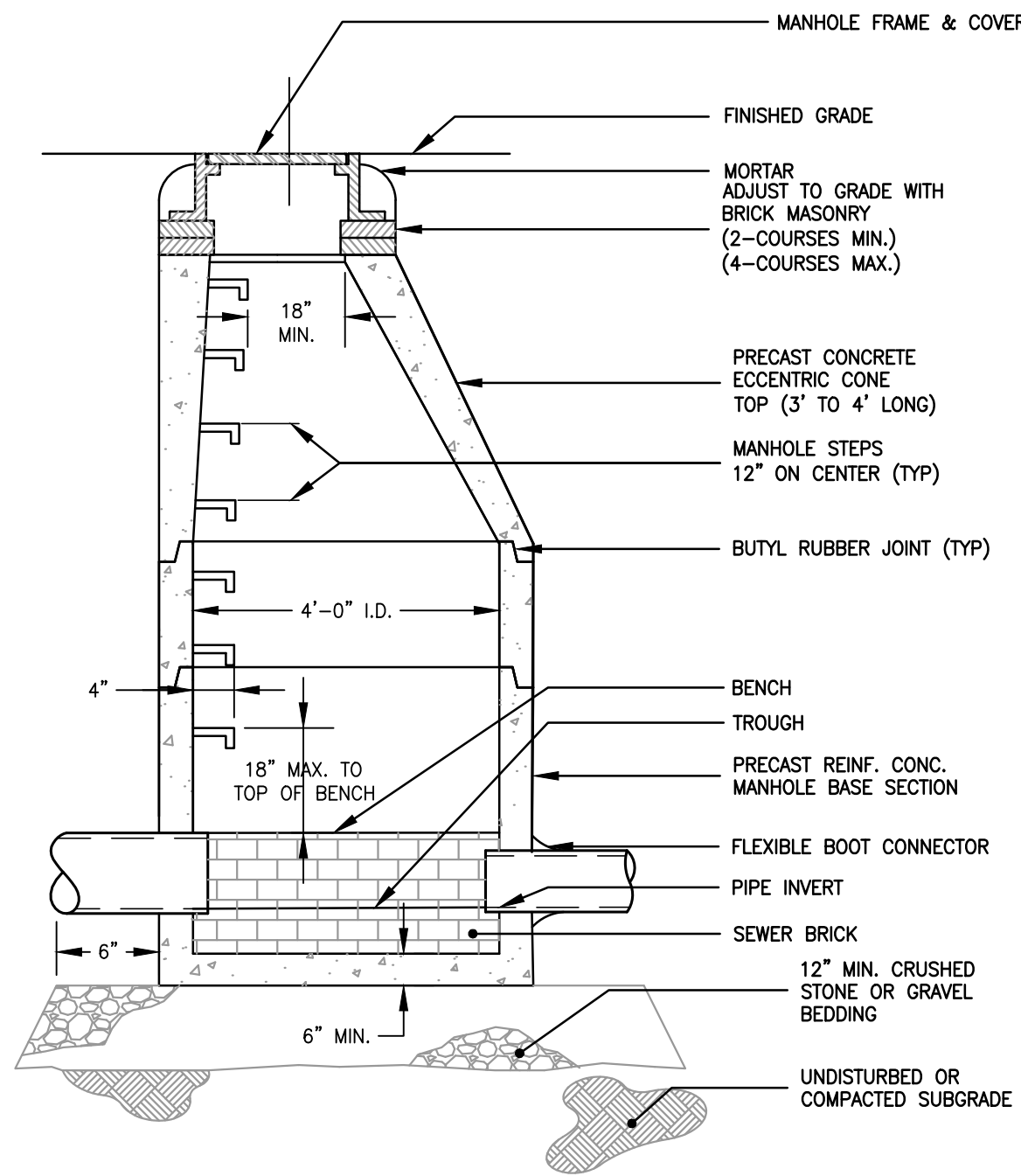
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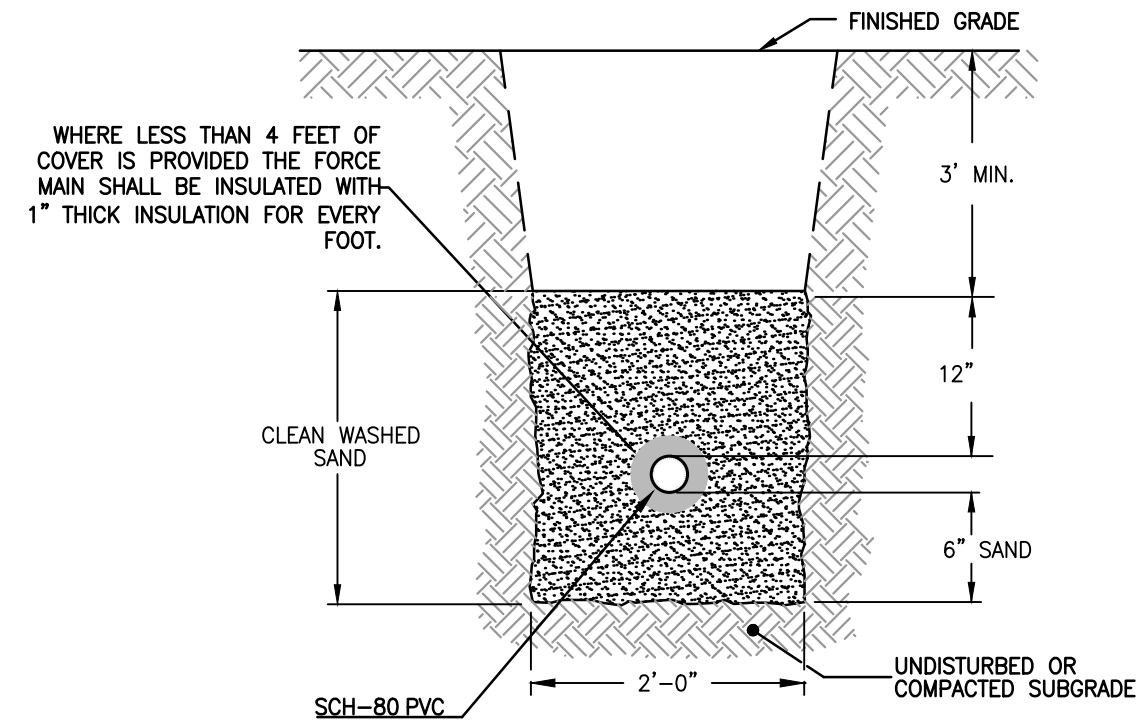
7 AREA DRAIN

NTS

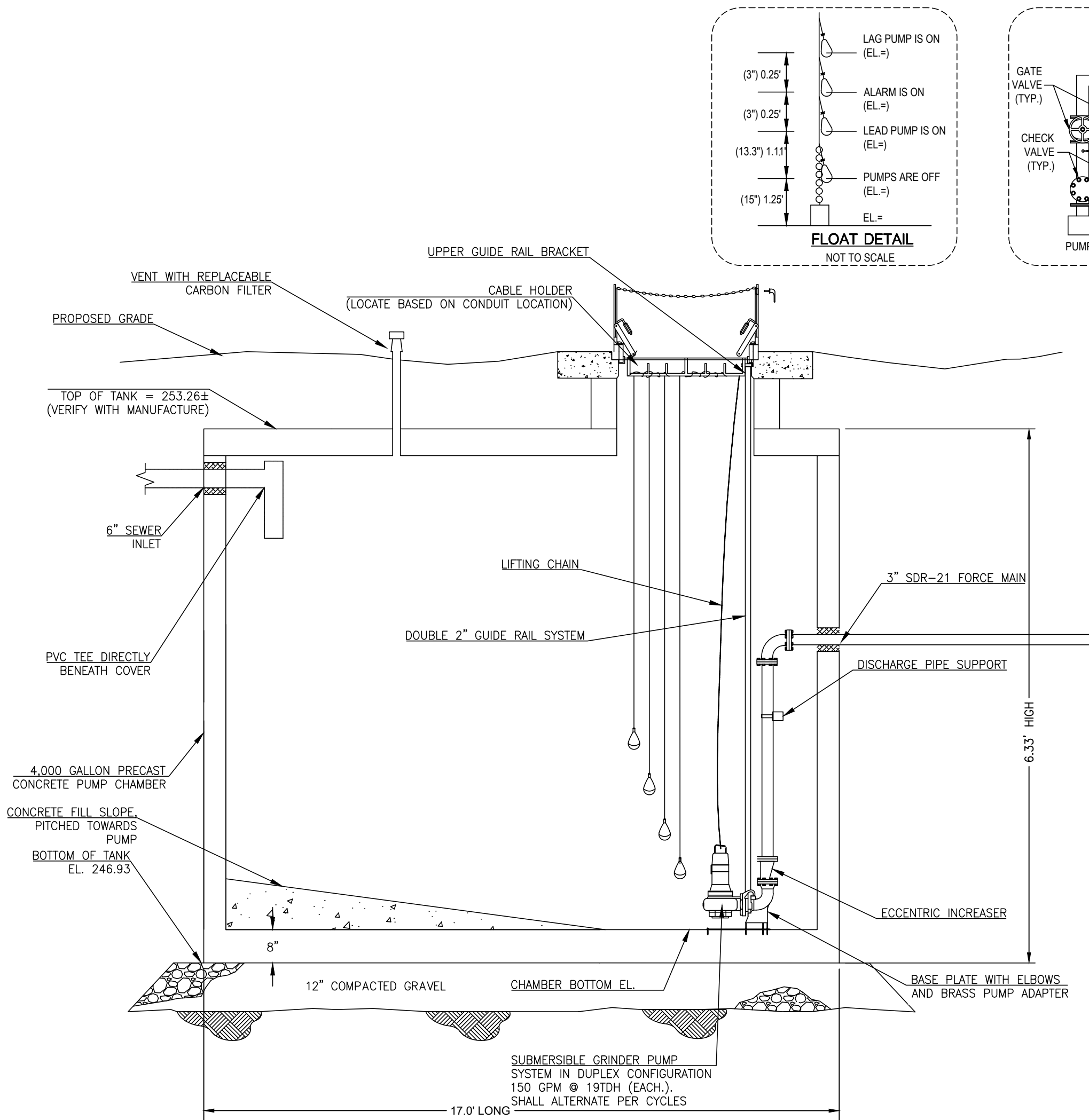
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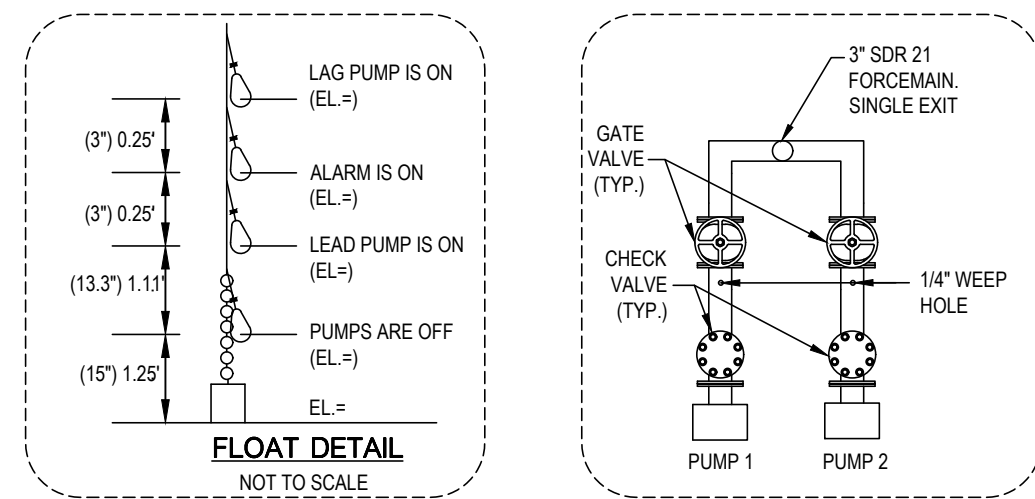
1 PRECAST SANITARY MANHOLE
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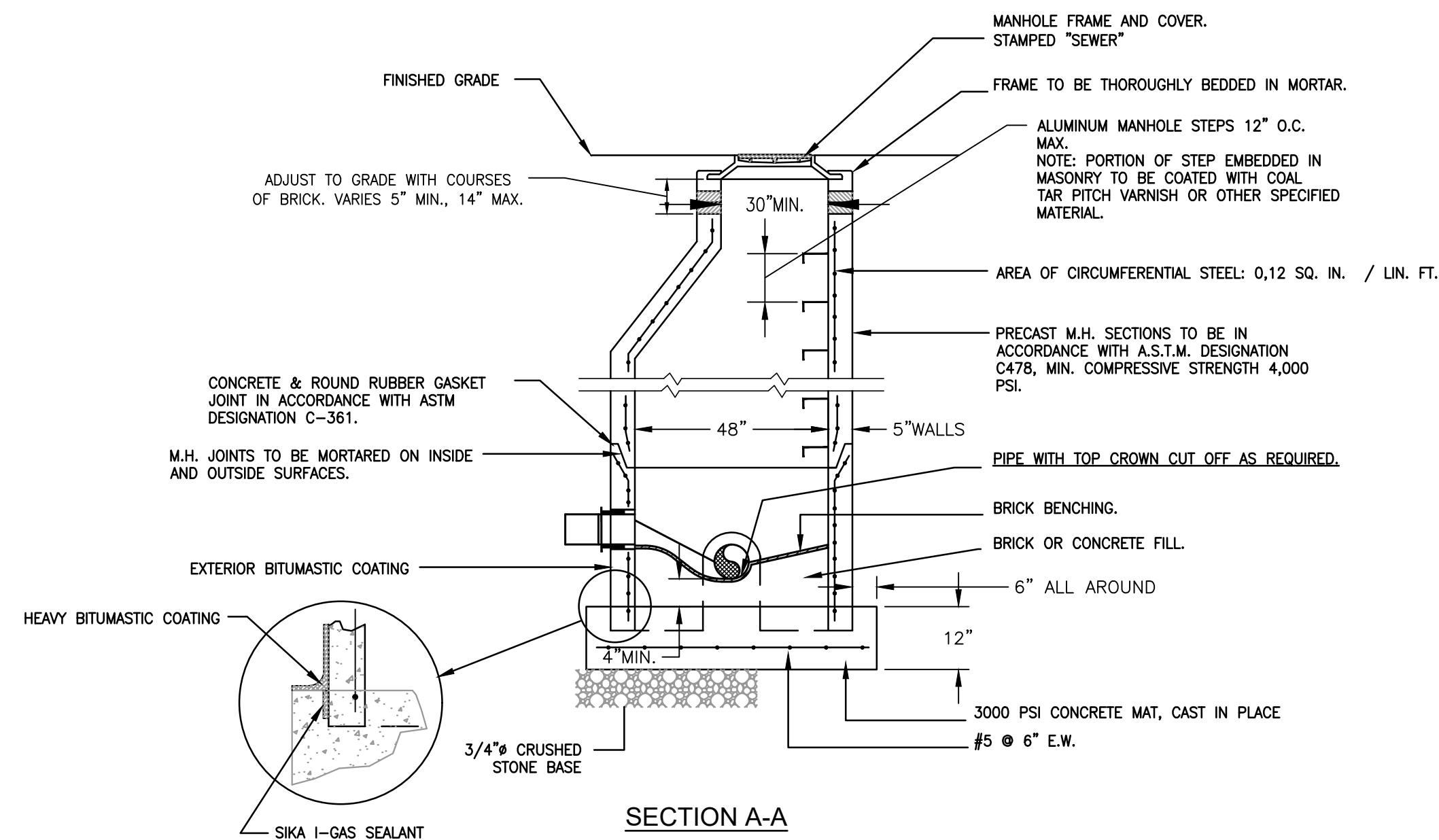
2 FORCE MAIN TRENCH
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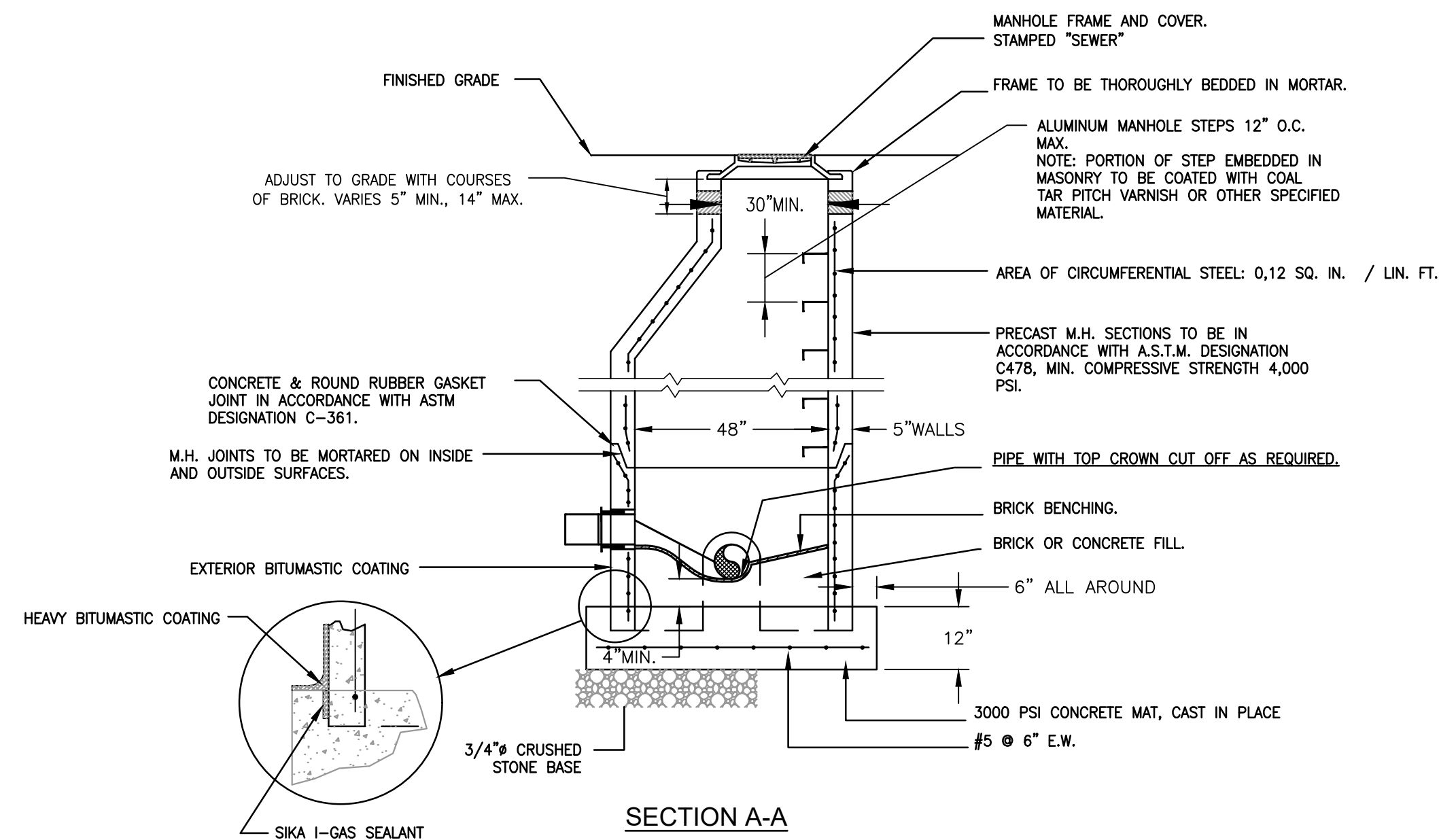
1 SEWER PUMP STATION DETAIL
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4 DOGHOUSE MANHOLE DETAIL
NTS

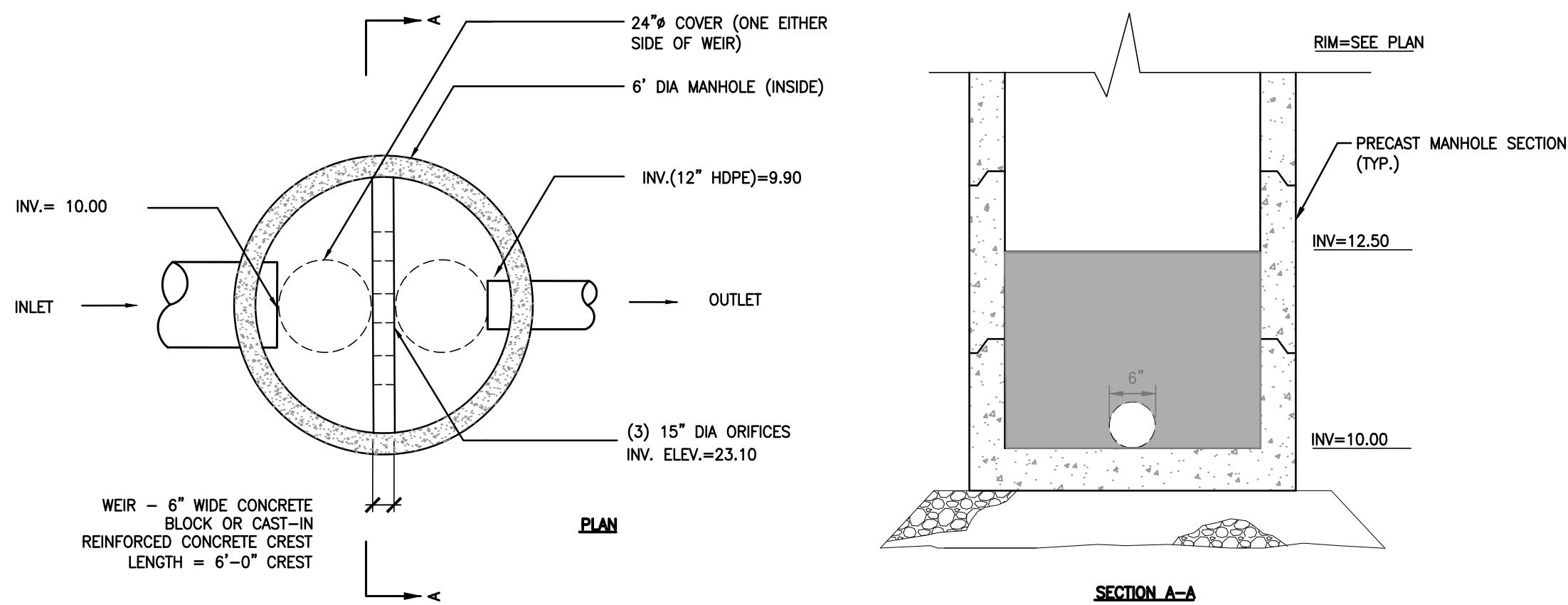


5 CHANNEL - PLAN
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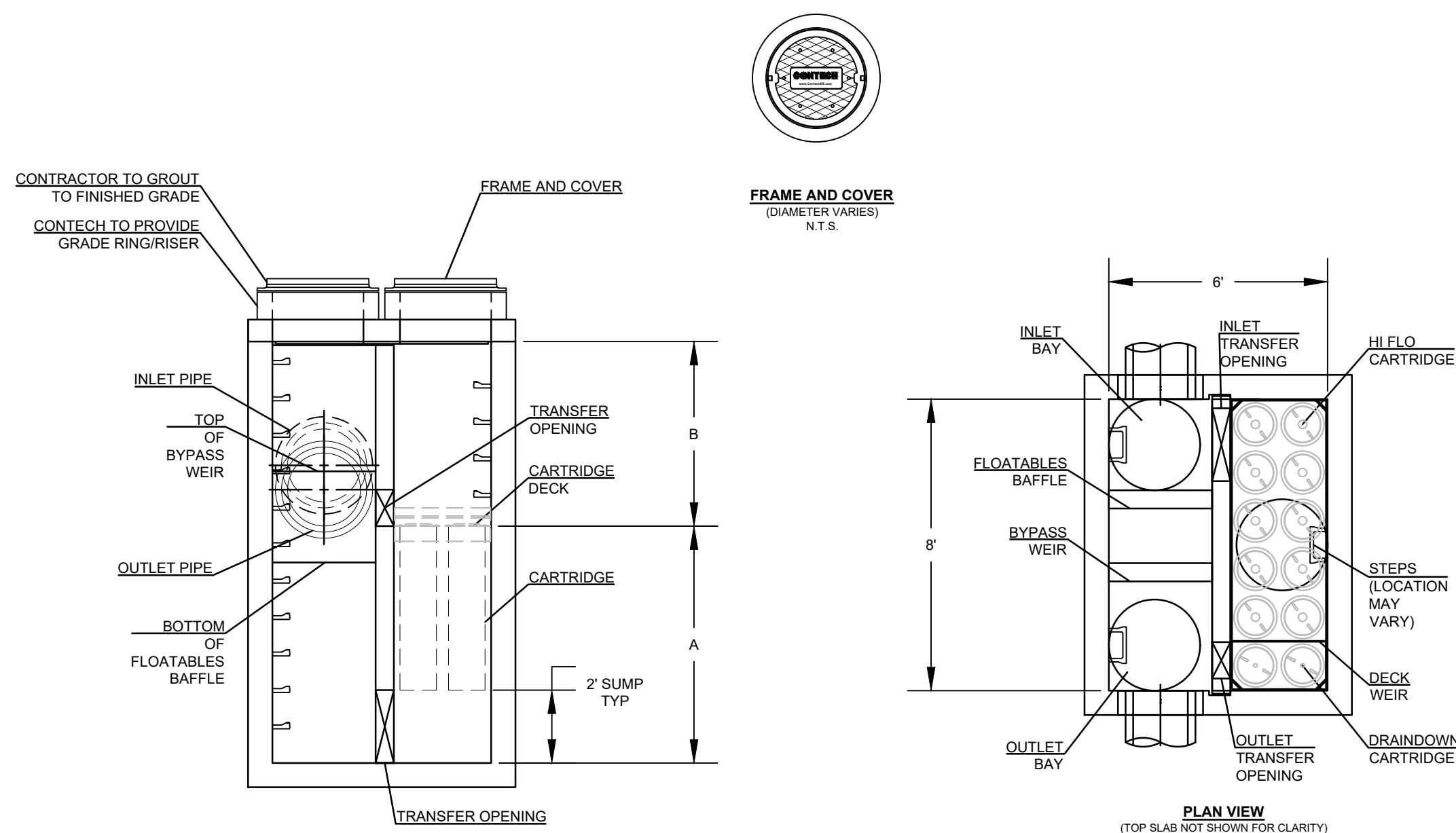
6 SECTION A-A
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1 OUTLET CONTROL STRUCTURE (OCS-1)

NTS

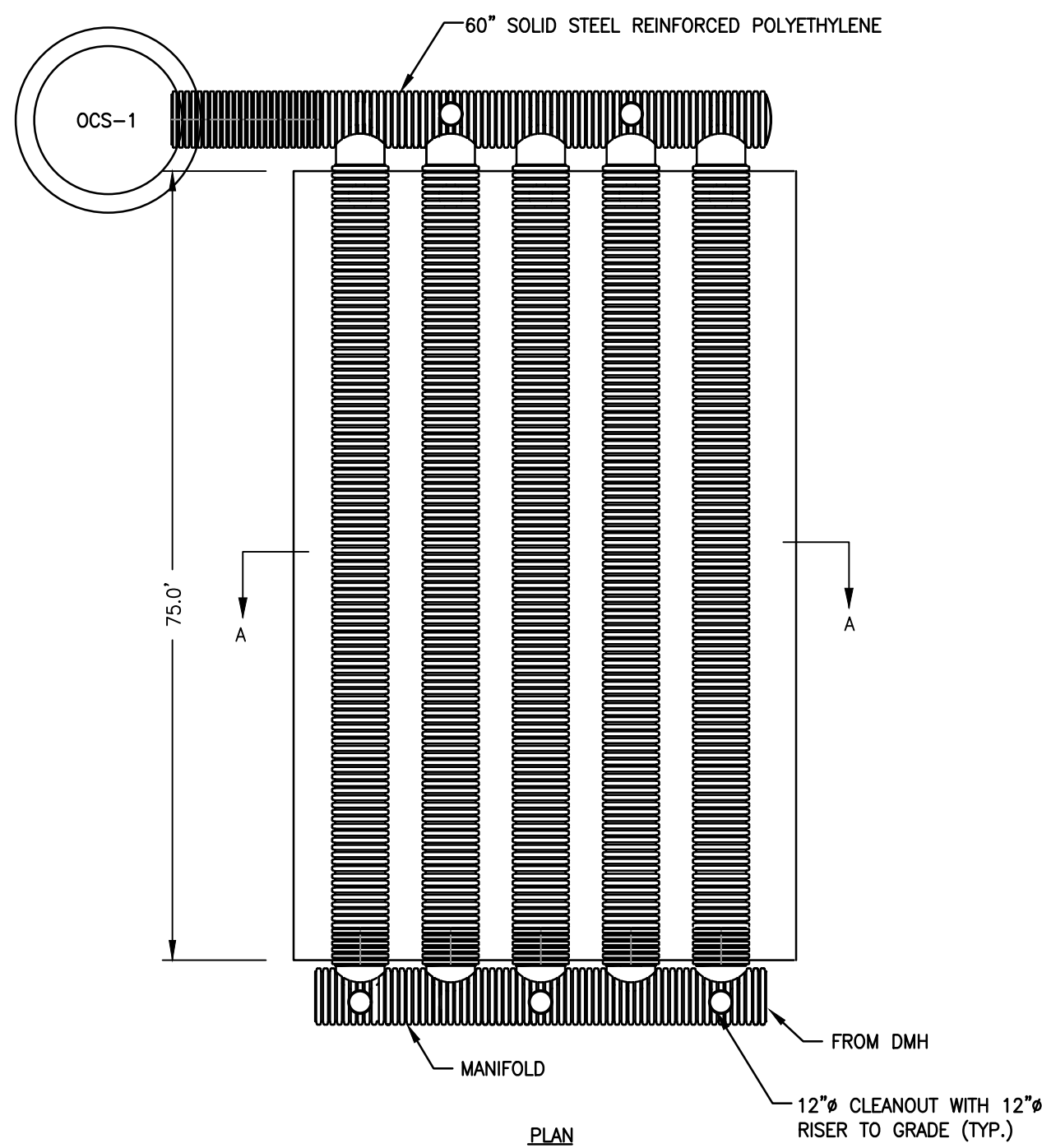
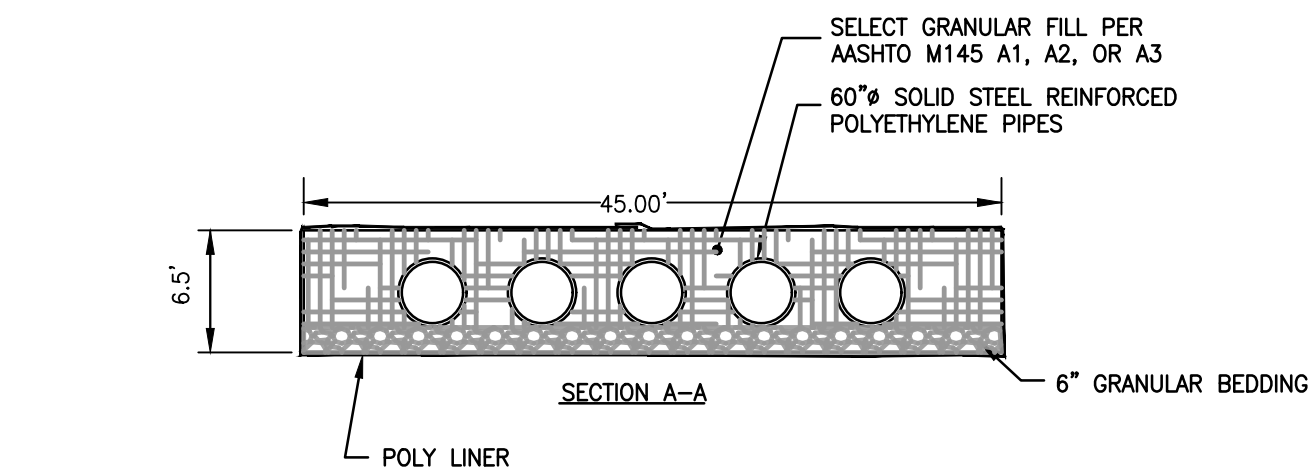


ELEVATION VIEW

PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)

2 JELLYFISH JFPD0806 PEAK DIVERSION CONFIGURATION

NTS



3 STORMWATER RETENTION SYSTEM

NTS

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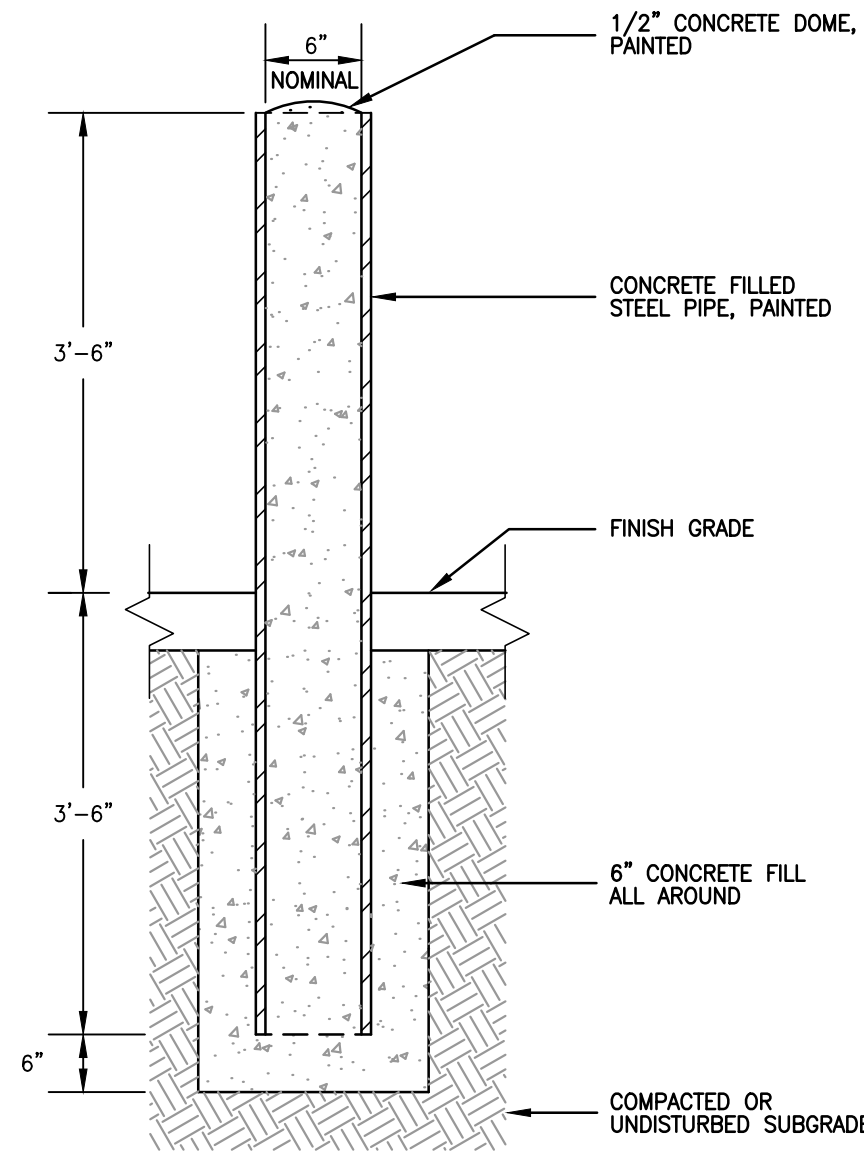
Scale
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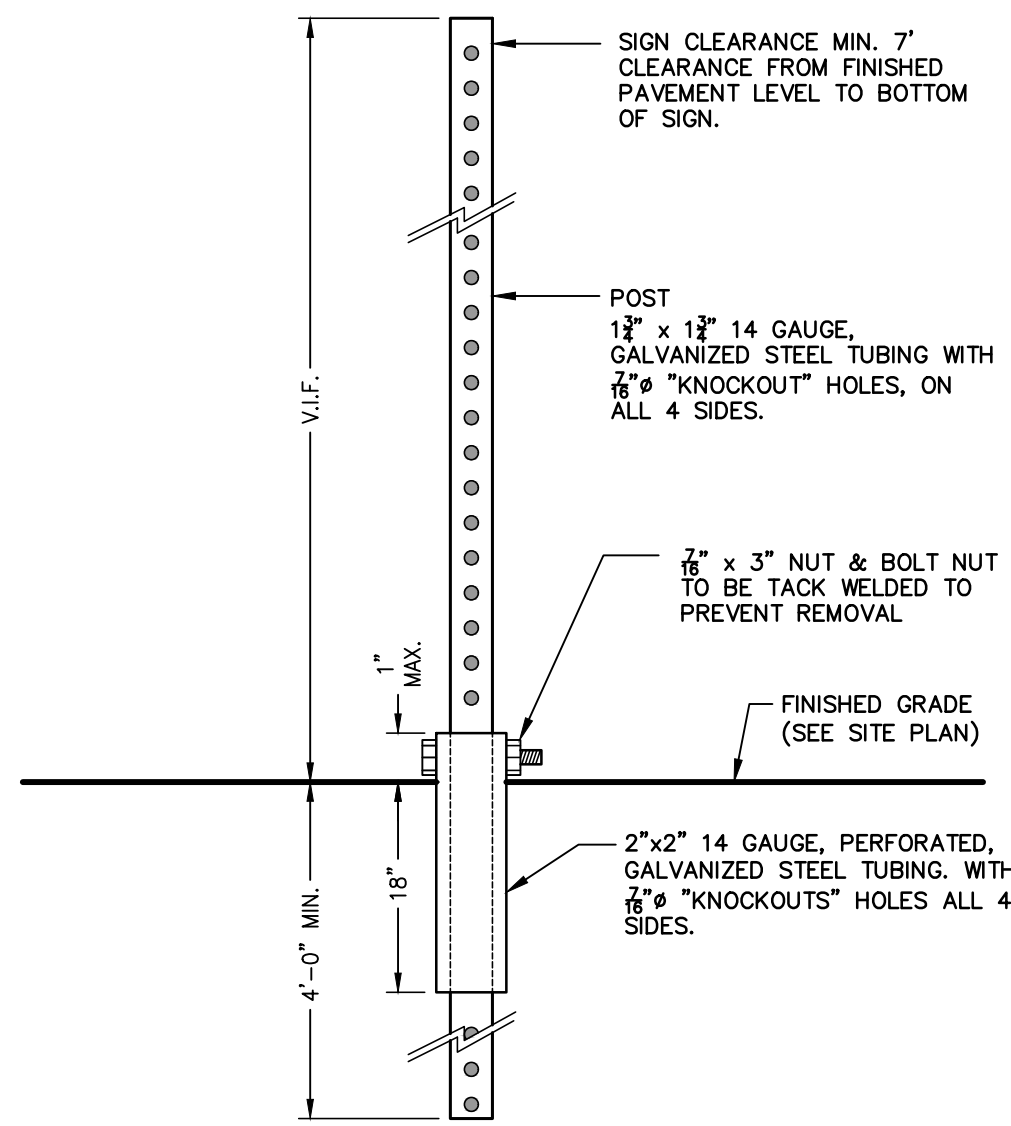
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1 CONCRETE FILLED STEEL PIPE BOLLARD

NTS



2 TELESOPING-BREAKAWAY
TRAFFIC SIGN POST

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