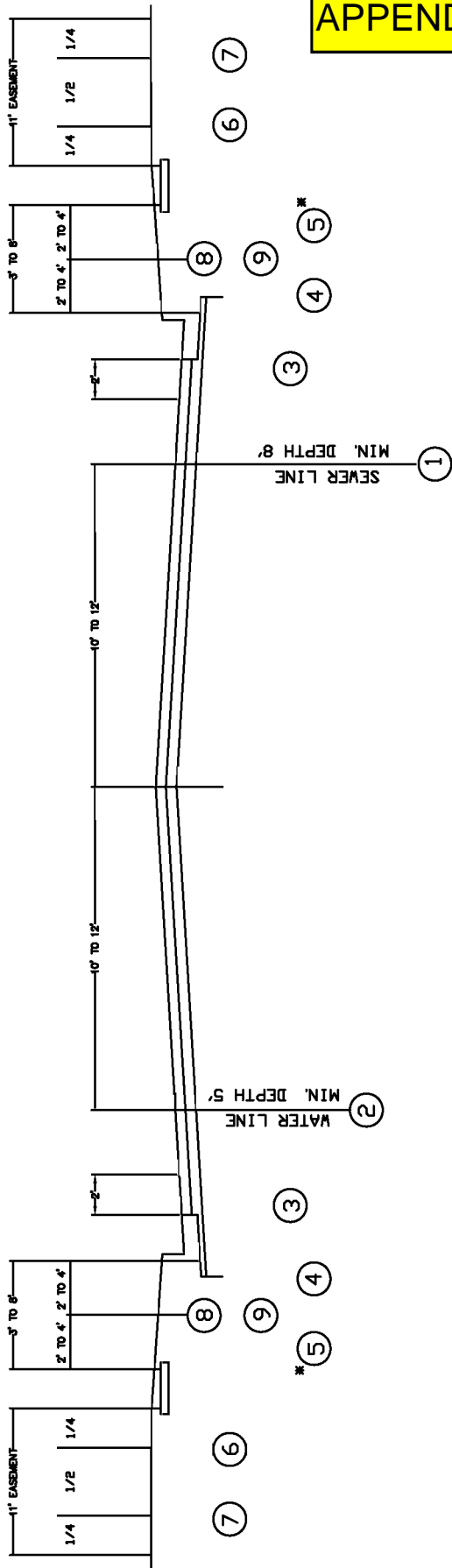


APPENDIX A

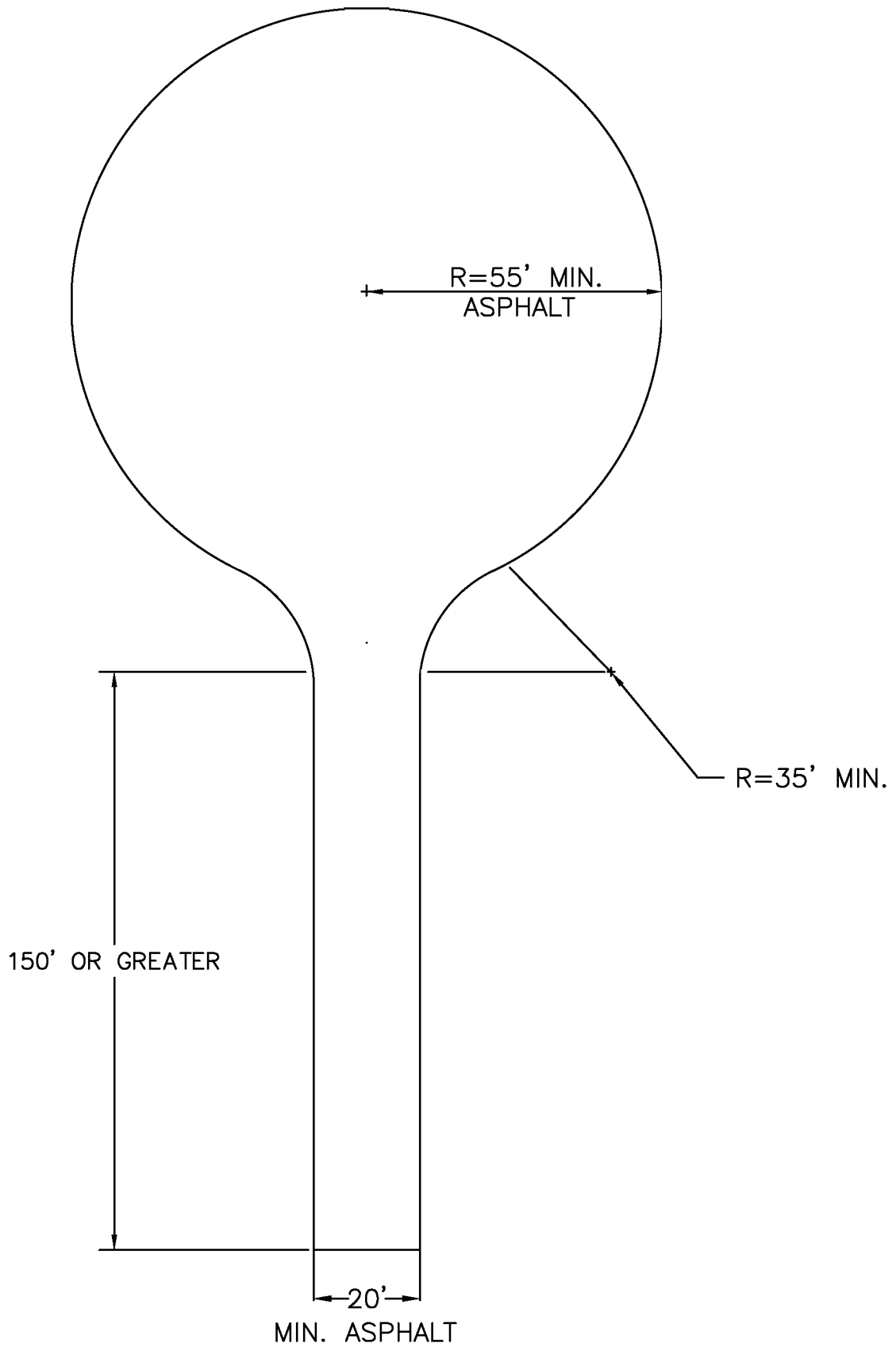


- NOTES:
1. IF UTILITY EASEMENT DOES NOT EXIST, THE UTILITY COMPANIES SHALL OBTAIN AN EASEMENT BEFORE PROCEEDING WITH WORK.
 2. WHERE SIDEWALK IS ADJACENT TO THE CURB AND GUTTER, OR WHERE OTHER VARIATIONS TO THE TYPICAL SECTION INTERFERE WITH UTILITY LOCATION, THE LOCATION OF UTILITIES WILL BE DETERMINED BY THE PUBLIC WORKS DIRECTOR.
 3. * IF AGREEMENT FOR A SHARED TRENCH WITH U. S. WEST OR WITH CABLE TV IS ACHIEVED, POWER LINES MAY BE PLACED IN THE UTILITY EASEMENT BEHIND THE SIDEWALK.

- ③ STORM DRAIN-AVE. DEPTH 36 INCHES
- ④ NATURAL GAS-MIN. DEPTH 30 INCHES
- ⑤ LOGAN CITY LIGHT & POWER-MIN. DEPTH 40 INCHES ALSO POWER AND LIGHT POLES
- ⑥ TELEPHONE-MIN. DEPTH 30 INCHES
- ⑦ CABLE TELEVISION-DEPTH 18 TO 24 INCHES
- ⑧ LOGAN CITY WATER DEPT. METER-SURFACE
- ⑨ PARKWAY TREES IN PARKWAYS 6 FEET OR WIDER

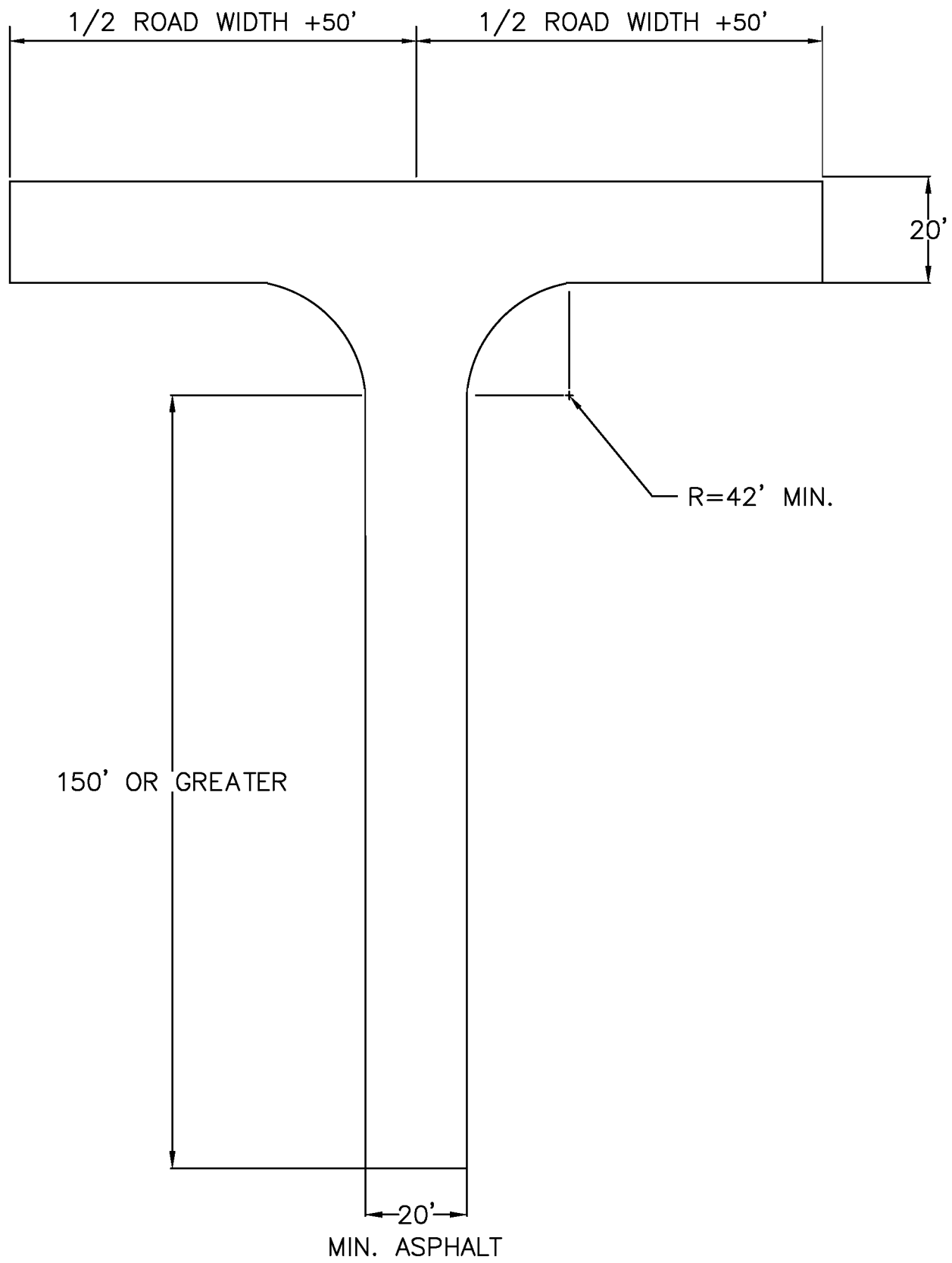
UTILITY LOCATION IN STREET ROW

PLAN NO. 127S



MINIMUM SOLID WASTE TURN AROUND
RADIUS FOR CUL-DE-SAC

PLAN NO.
267S

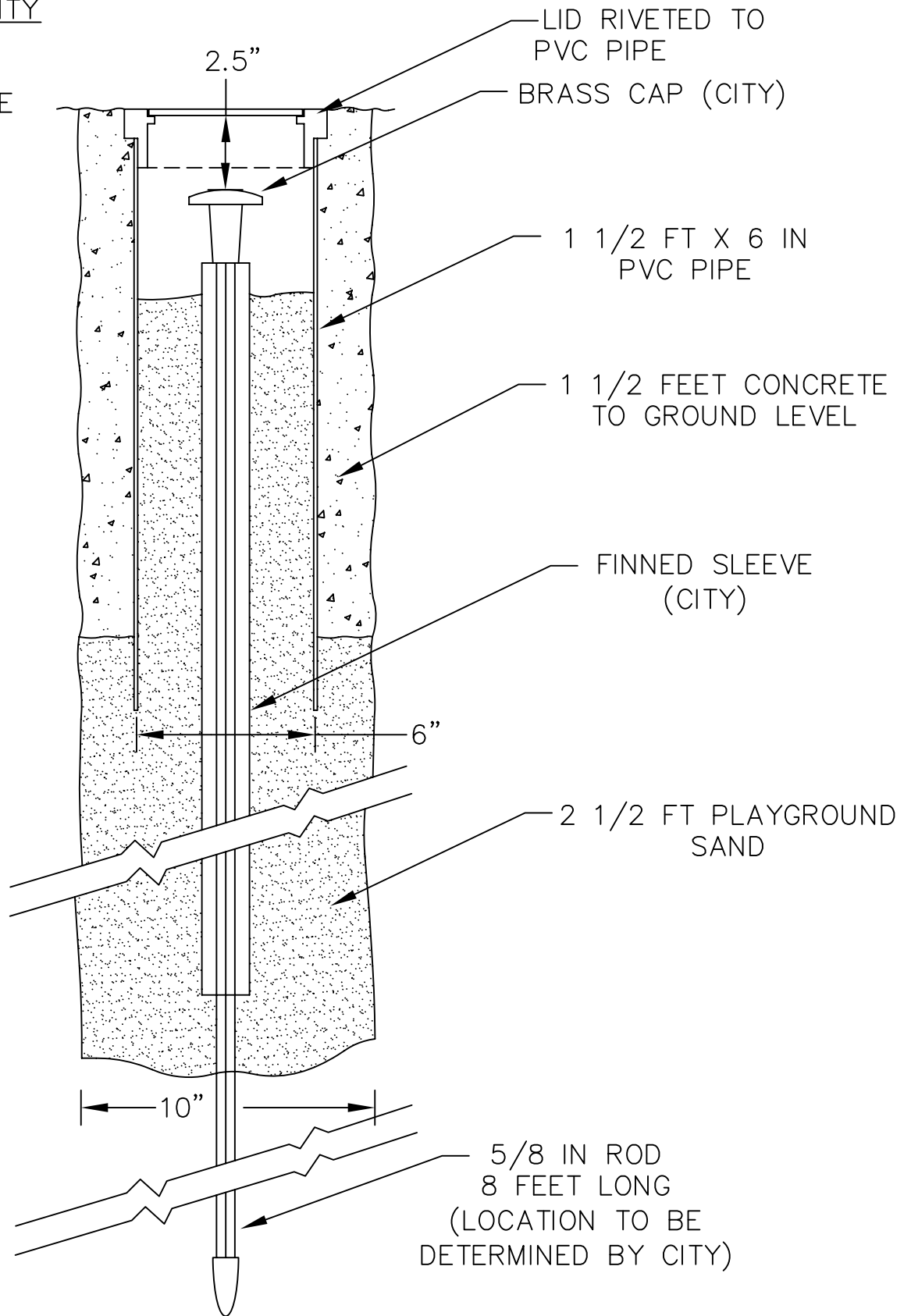


ALTERNATIVE SOLID WASTE
TURN AROUND

PLAN NO.
268S

PROVIDED BY CITY

LID
BRASS CAP
FINNED SLEEVE



SURVEY MONUMENT

PLAN NO.
274S

EXCAVATE TRENCH
WIDTH OF TRENCH = OD OF PIPE + 18"

IS FOUNDATION SOIL SUITABLE?
IF SOIL IS TOO WET
TO COMPACT TO A
FIRM AND UNYIELDING
STATE, IT IS NOT SUITABLE

YES

NO

EXCAVATE TRENCH TO ALLOW FOR A
MINIMUM OF 6" BEDDING MATERIAL

COMPACT FOUNDATION TO A FIRM
AND UNYIELDING STATE

BRING TRENCH TO PIPE GRADE
USING APPROVED BACKFILL
MATERIAL (SEE GEN. NOTES), IN
LOOSE 8" MAXIMUM LIFTS AND THEN
COMPACTED TO 95% STANDARD
PROCTOR

TEST BEDDING MATERIAL EVERY 200
LF TO 95% STANDARD PROCTOR

LAY PIPE, SUPPORT ENTIRE LENGTH,
SHAPE TRENCH TO PIPE
(PROVIDE BELL HOLES IF PRESENT)

OVER EXCAVATE TRENCH A MIN OF
12", MAY REQUIRE MORE
DEPENDING ON CONDITIONS

DEWATER TRENCH

INSTALL FILTER FABRIC IN SUCH A
WAY AS TO COVER THE SIDES AND
FOUNDATION OF TRENCH

BRING TRENCH TO SUB GRADE
USING CLEAN GRAVEL OR COBBLE,
CLASS 5 SEWER ROCK (1" MINUS)
MIN

INSTALL FILTER FABRIC ON TOP OF
CLEAN GRAVEL OR COBBLE

BACKFILL TO THE SPRING LINE OF
THE PIPE WITH APPROVED BACKFILL
MATERIAL (SEE GEN. NOTES), 8" MAX
LIFTS

HAND COMPACT MATERIAL UNDER
PIPE HAUNCHES BY SHOVEL
SLICING THE ENTIRE LENGTH OF
THE PIPE, AVOID LIFTING THE PIPE

PLACE INITIAL BACKFILL USING
GRADE 3/4 UNTREATED BASE COURSE,
IN LOOSE 8" MAX LIFTS, AND THEN
COMPACT TO 95% STANDARD
PROCTOR

TEST INITIAL BACKFILL MATERIAL
EVERY 200 LF TO 95% STANDARD
PROCTOR

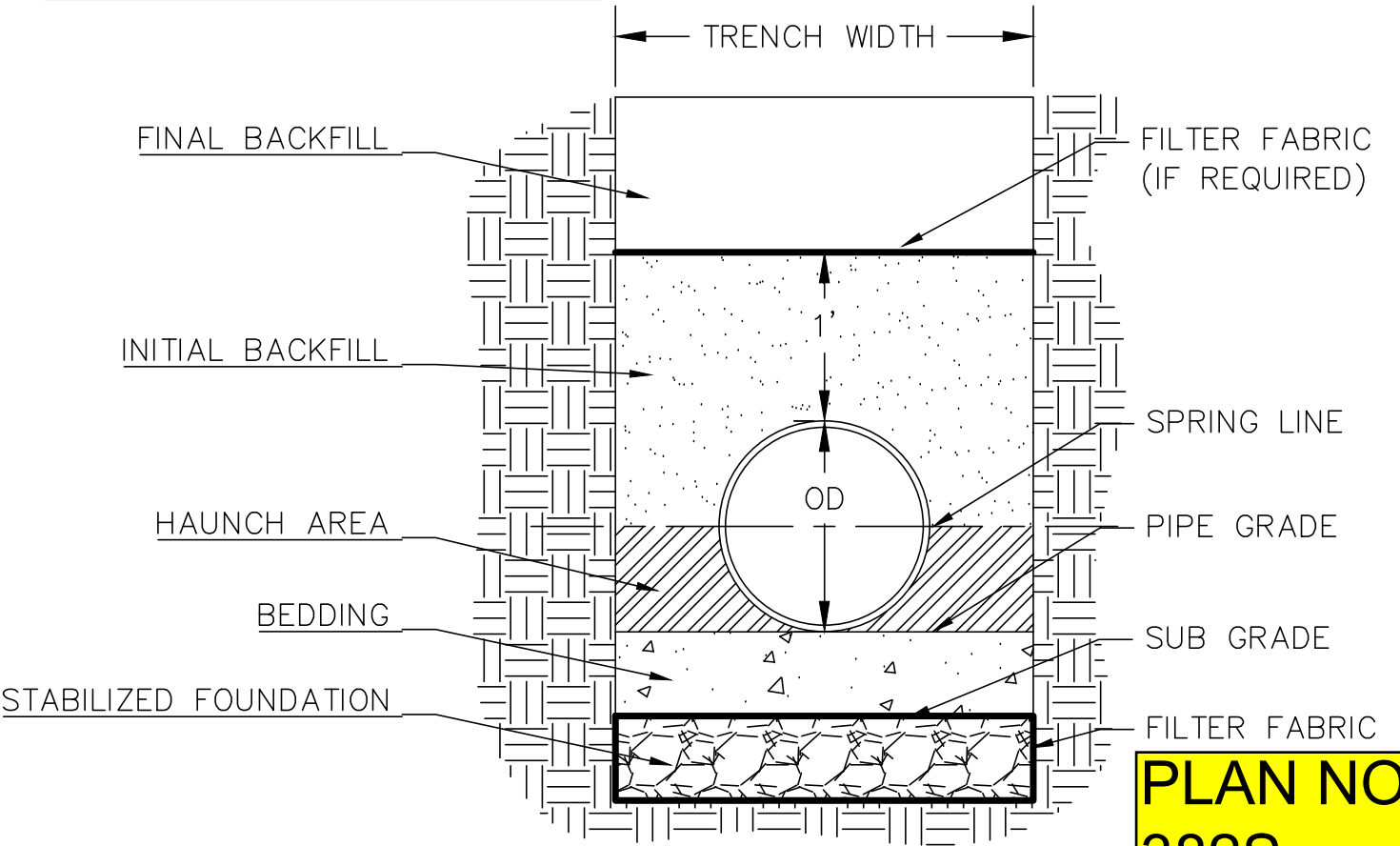
PLACE FINAL BACKFILL WITH
GRANULAR BACKFILL BORROW

GEN. NOTES:

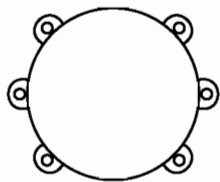
GRADATION DOCUMENTATION,
CLASSIFICATION AND PROCTORS SHALL BE
PROVIDED TO CITY ENGINEER FOR
APPROVAL PRIOR TO PLACEMENT OF
MATERIAL. GRADATION SHALL MEET 100%
PASSING 3/4" SIEVE, AND LESS THAN 12%
PASSING THE #200 SIEVE (CLAY).

ADDITIONAL FILTER FABRIC MAY BE
REQUIRED BY CITY ENGINEER AT THE
INTERFACE OF THE INITIAL AND FINAL
BACKFILL, IF THE MATERIALS DIFFER
SIGNIFICANTLY IN GRADATION (PEA GRAVEL
TO PIT RUN)

ANY VARIANCE FROM THIS FLOW CHART
MUST BE APPROVED IN WRITING BY CITY
ENGINEER

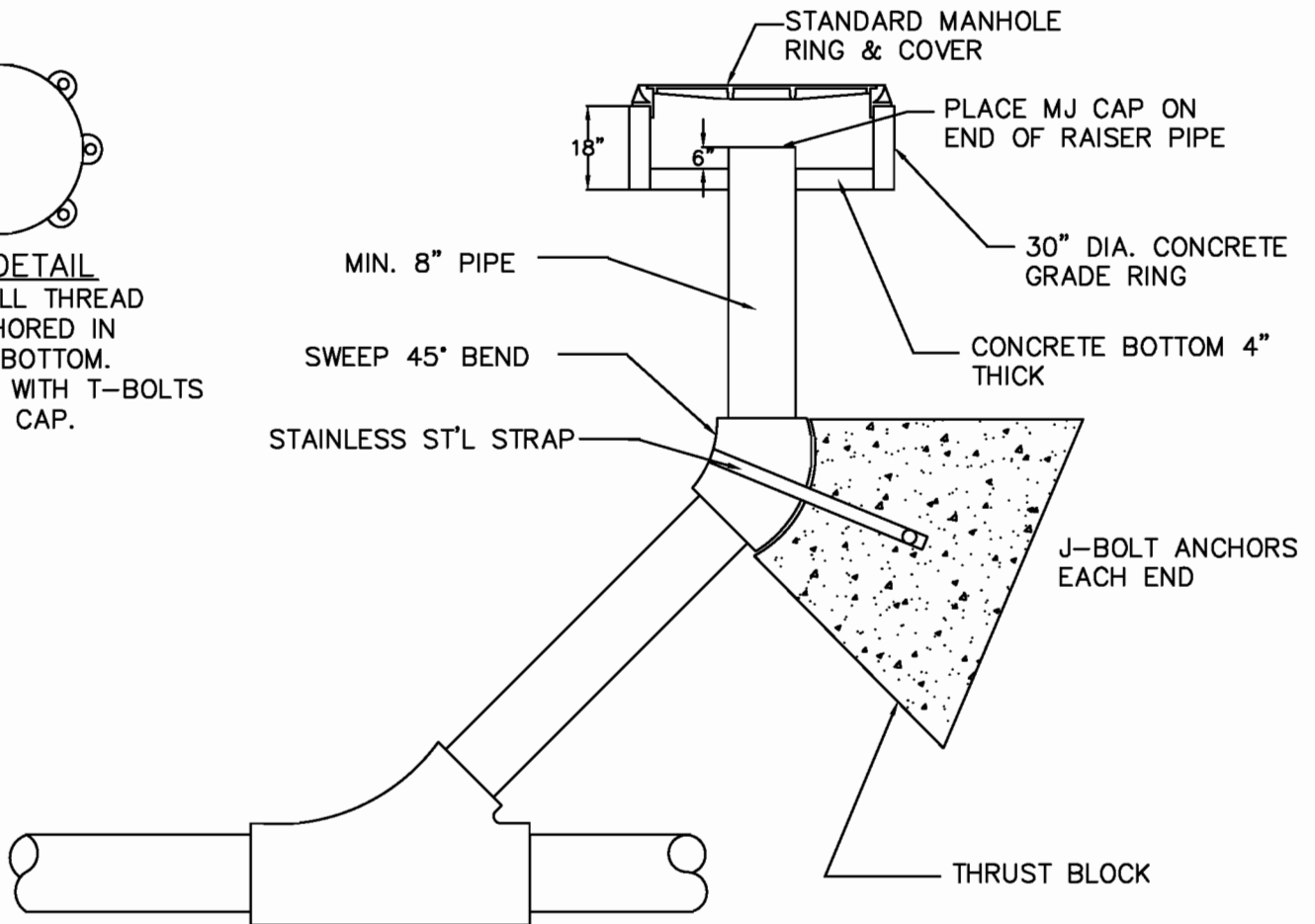


**PLAN NO.
382S**



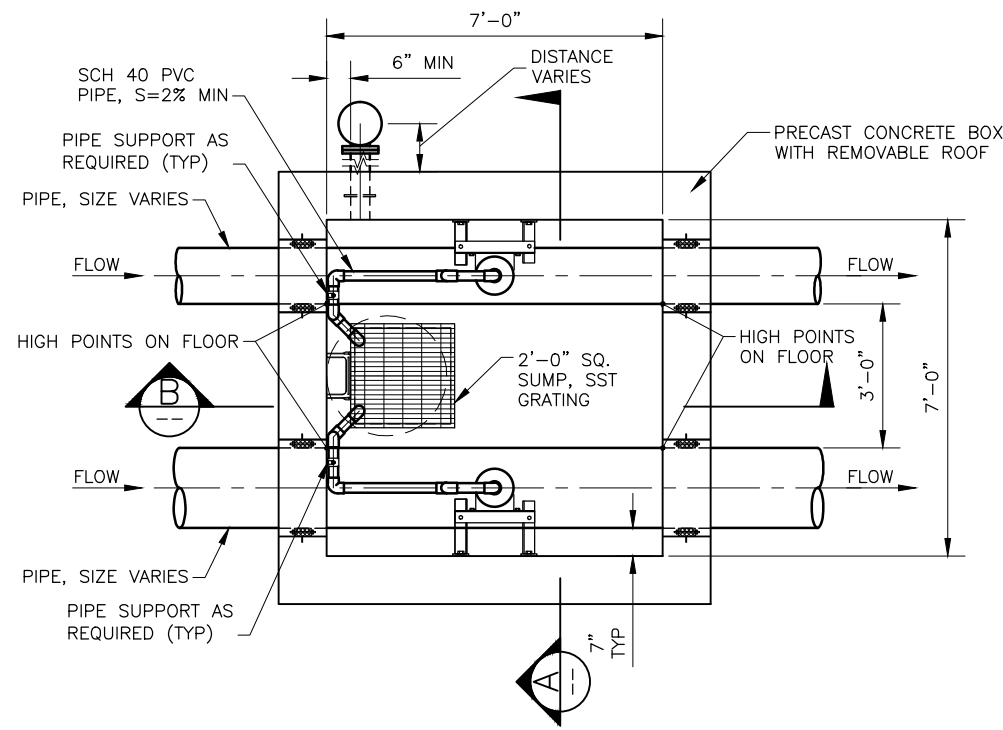
MJ CAP DETAIL

PLACE 3 ALL THREAD
RODS ANCHORED IN
CONCRETE BOTTOM.
ALTERNATE WITH T-BOLTS
TO SECURE CAP.



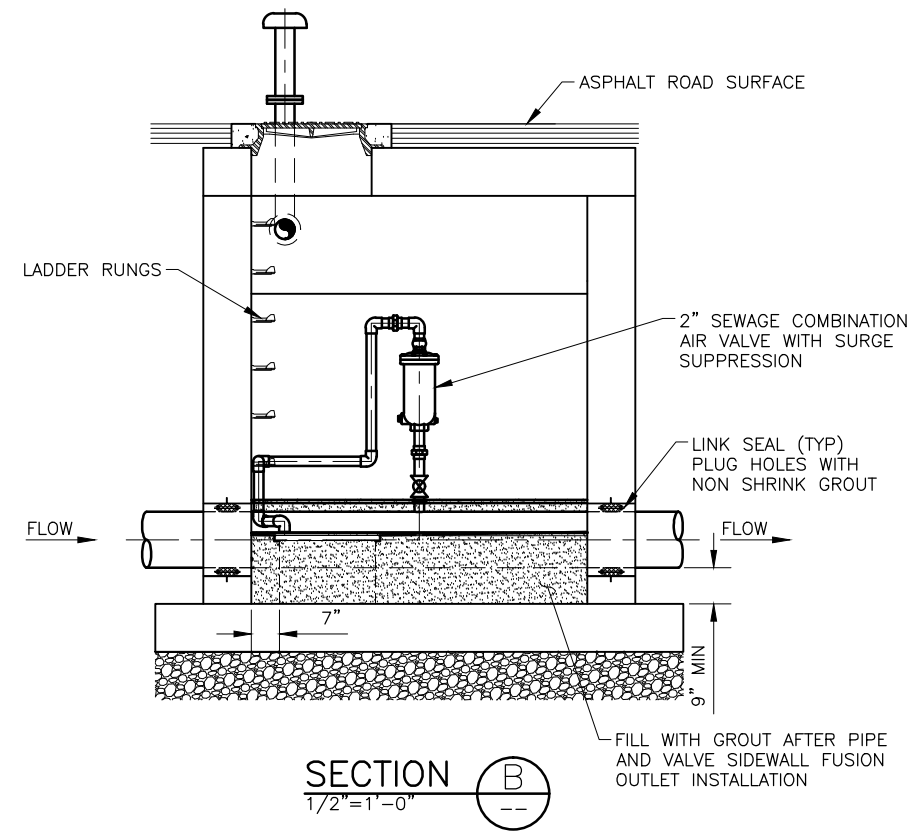
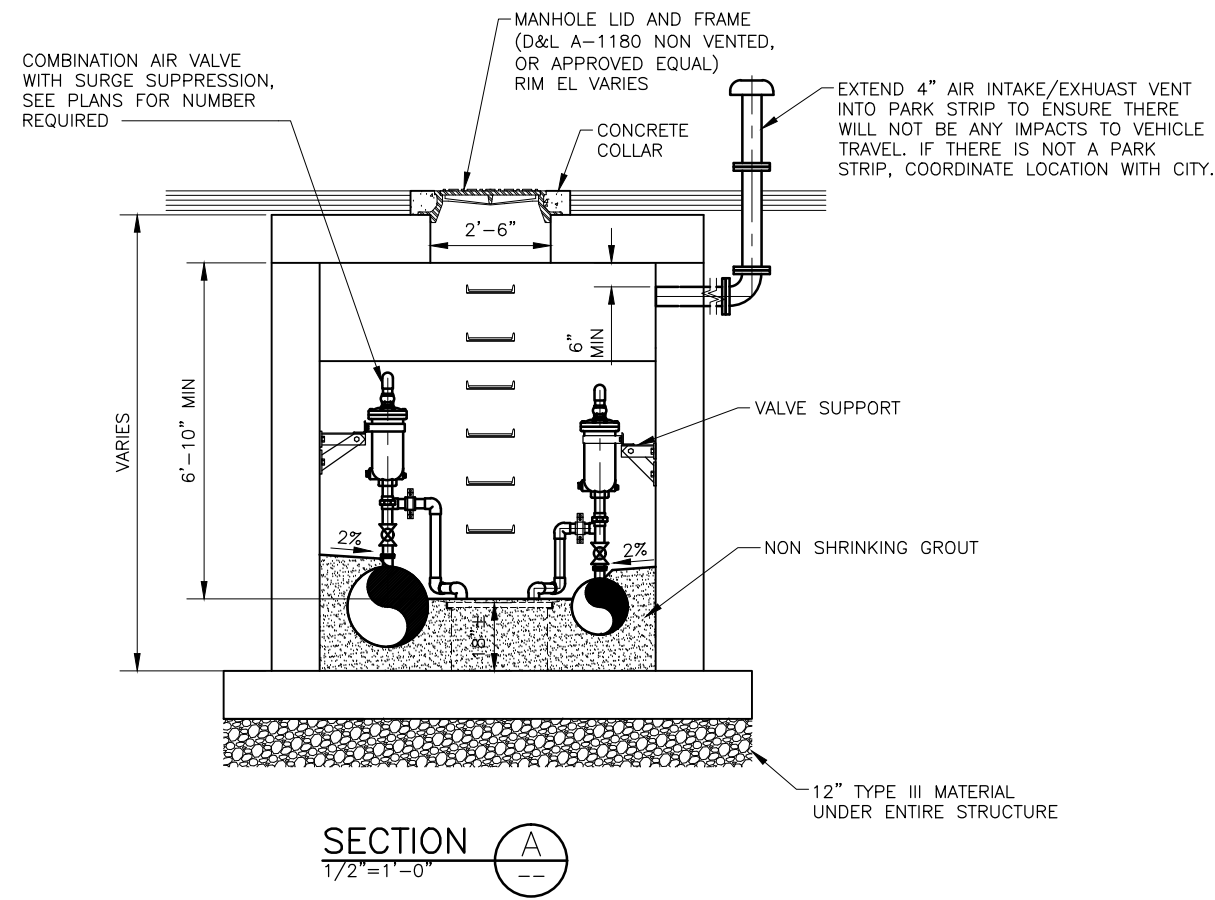
PRESSURE LINE SEWER CLEANOUT

PLAN NO.
434S



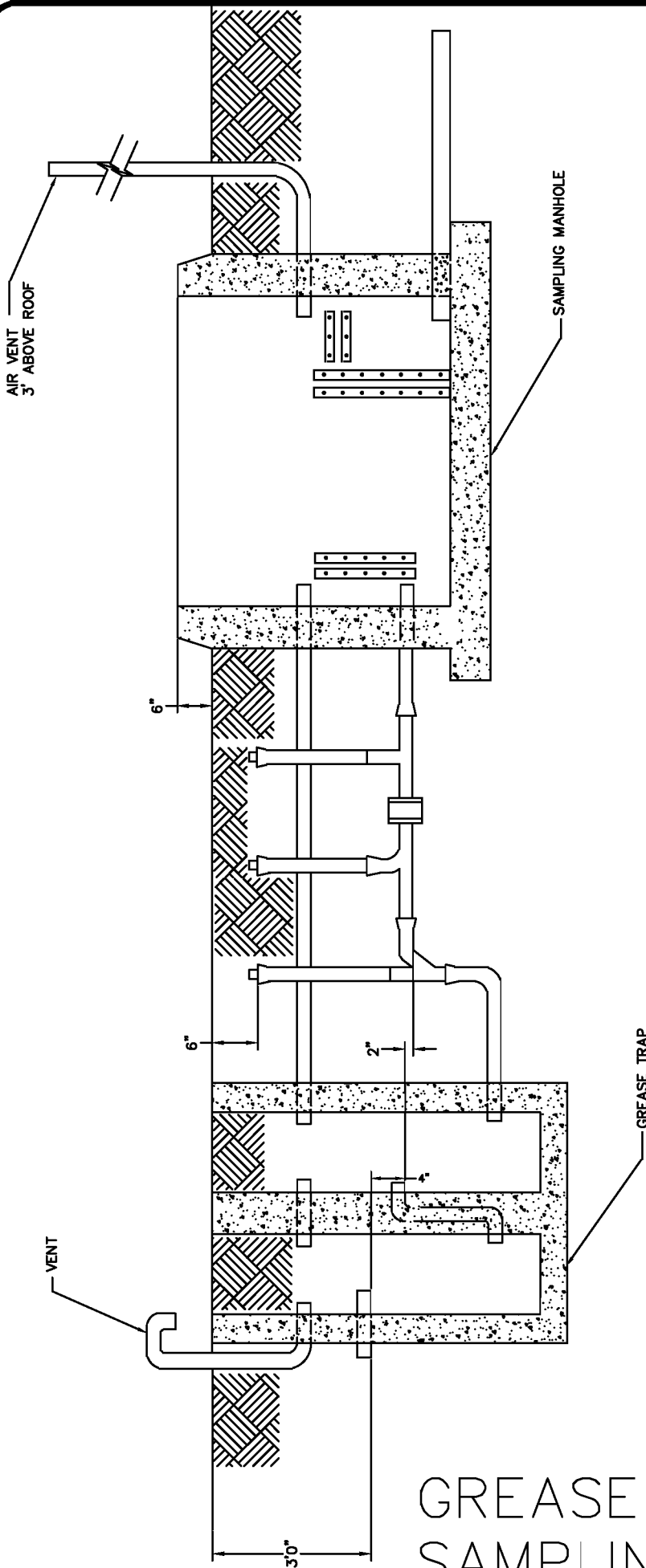
NOTES:

1. STRUCTURE SHALL BE PRECAST CONCRETE AND SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF ASTM C858. STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF UTAH TO WITHSTAND HS-20 LIVE LOADS AND UPLIFT FORCES ASSOCIATED WITH WATER TABLE. PRECAST CONCRETE UNITS AND CONNECTIONS SHALL BE CAPABLE OF WITHSTANDING VERTICAL AND LATERAL EARTH PRESSURES AND HYDROSTATIC PRESSURES (WHERE REQUIRED). ALL JOINTS AND PENETRATIONS SHALL BE WATER TIGHT. SHOP DRAWINGS AND CALCULATIONS SHALL BE STAMPED AND SIGNED BY DESIGN ENGINEER AND SUBMITTED FOR REVIEW AND APPROVAL.
2. ANY METALLIC SURFACES WITHIN THE VAULT SHALL BE STAINLESS STEEL OR GALVANIZED.
3. STRUCTURE SHALL BE THE SAME SIZE FOR THE INSTALLATION OF ONE OR TWO COMBINATION AIR VALVE(S).



COMBINATION AIR VALVE VAULT DETAIL

PLAN NO.
435S



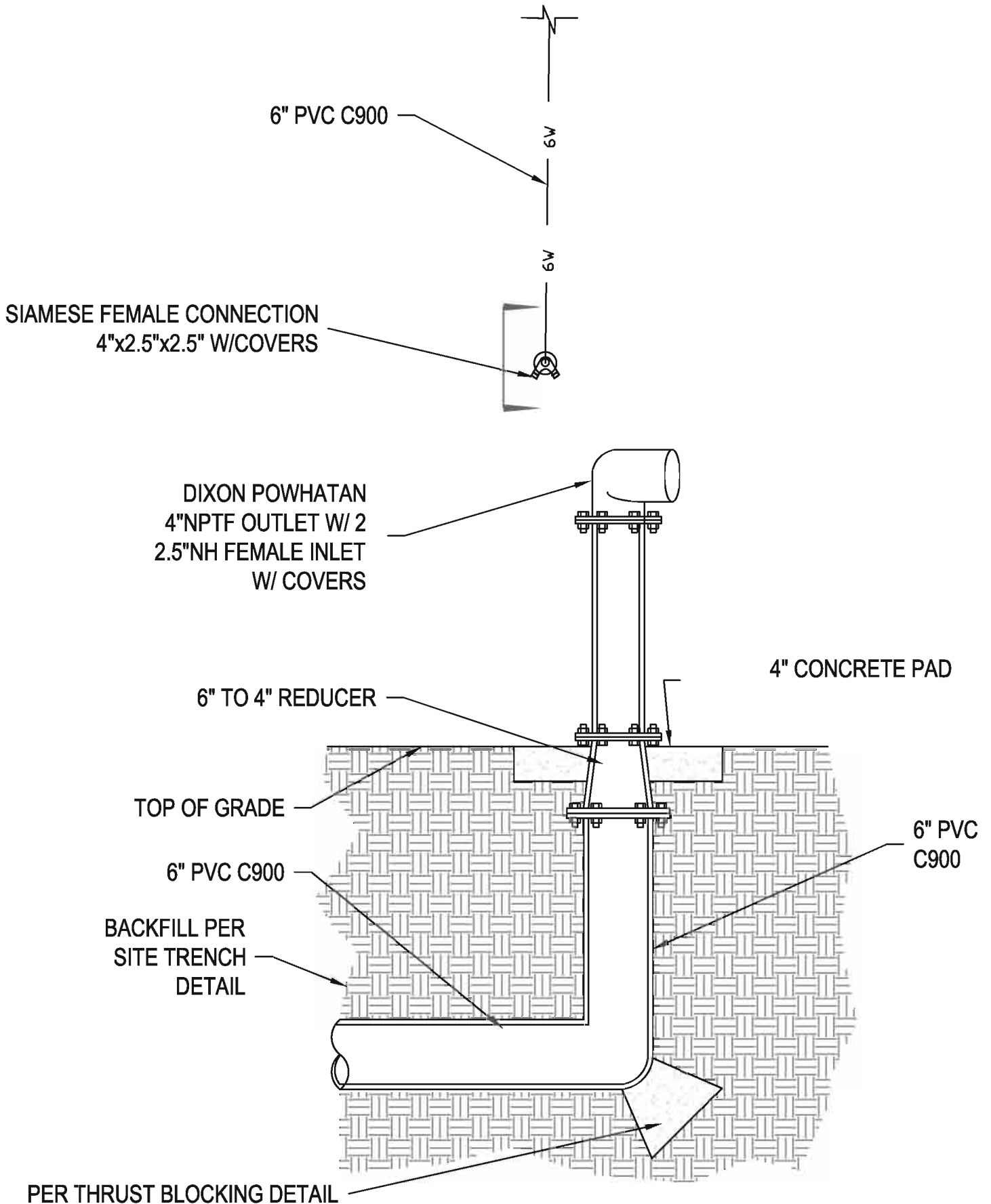
TOP OF V NOTCH IN SAMPLING MANHOLE TO BE AT FLOW LINE.
 VENT TO BE 1'0" ABOVE FLOW LINE, AND OFF SET TO MISS CLEAN OUT RISERS.
 VENT TO EXISTING CONDITIONS, AND 3'0" ABOVE ROOF OF BUILDING.
 CONTACT PERTREATMENT COORDINATOR FOR SPECIFIC SIZE AND CONSTRUCTION DETAILS

GREASE TRAP AND SAMPLING MANHOLE

PLAN NO.
441S

USE APWA NOTES

SUPPLEMENTAL PLAN NO. 441



1

YARD HYDRANT INLET RISER DETAIL

SCALE: NONE

PLAN NO.
512S1

SIAMESE MALE CONNECTION
4"x2.5"x2.5" W/COVERS

6" PVC C900

TWO (2) DIXON SINGLE
HYDRANT GATE VALVES
WITH VALVE WHEEL
PART # HGWW250F

DIXON POWHATAN
4"NPTF INLET W/ 2
2.5"NH MALE OUTLET
W/ COVERS
INSTALL COVERS ON
VALVE OUTLET

4" CONCRETE PAD

6" TO 4" REDUCER

TOP OF GRADE

6" PVC C900

6" PVC
C900

BACKFILL PER
SITE TRENCH
DETAIL

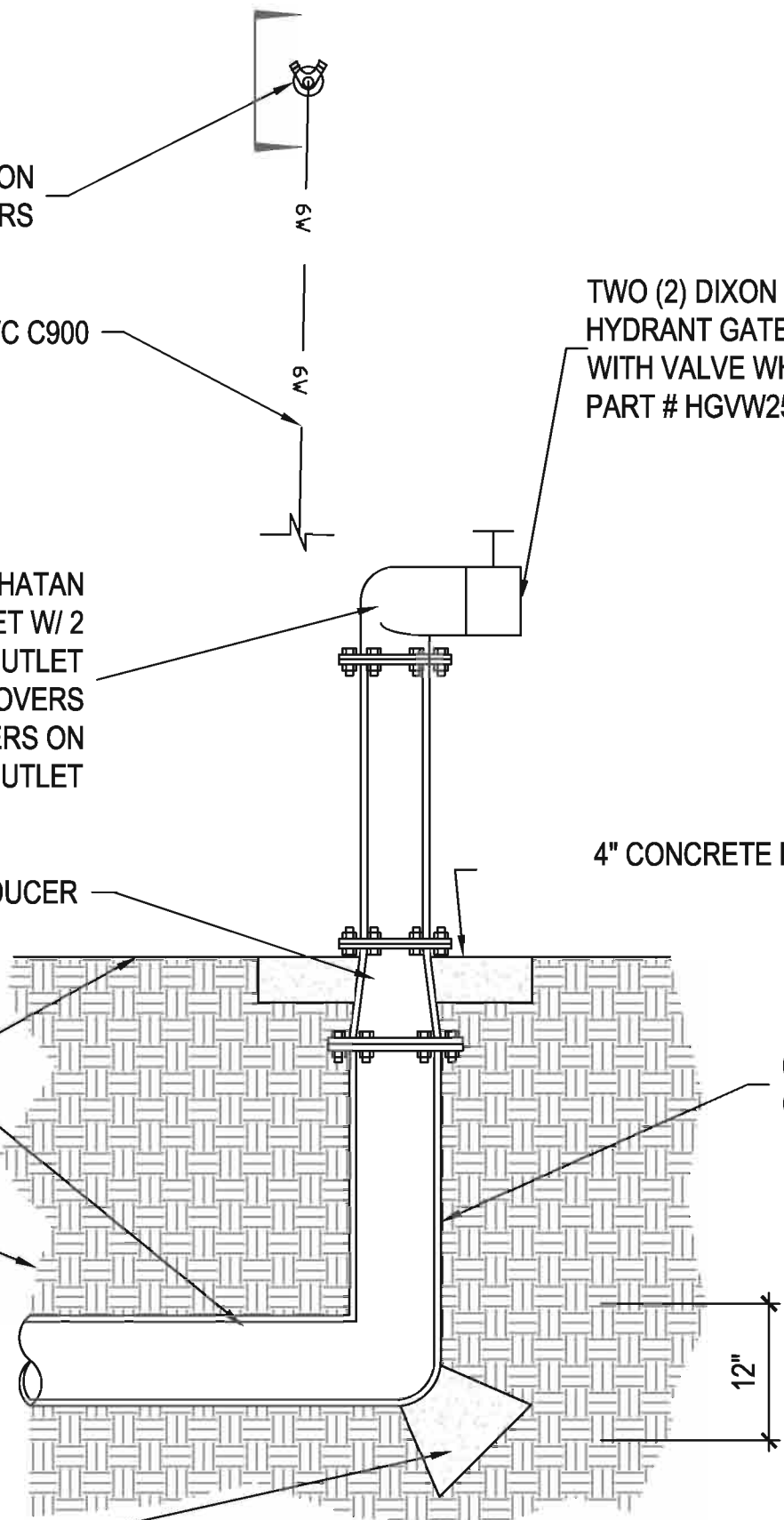
12"

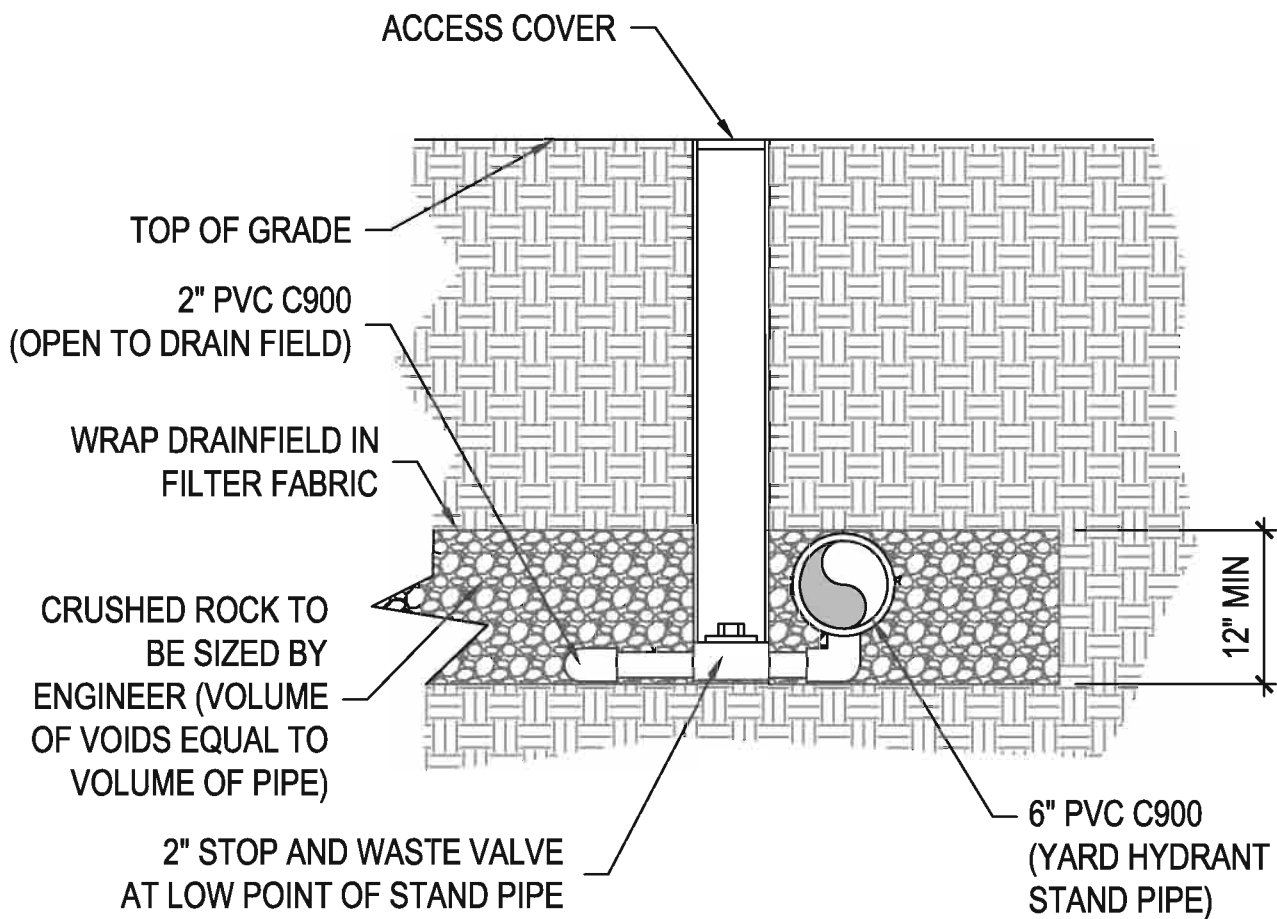
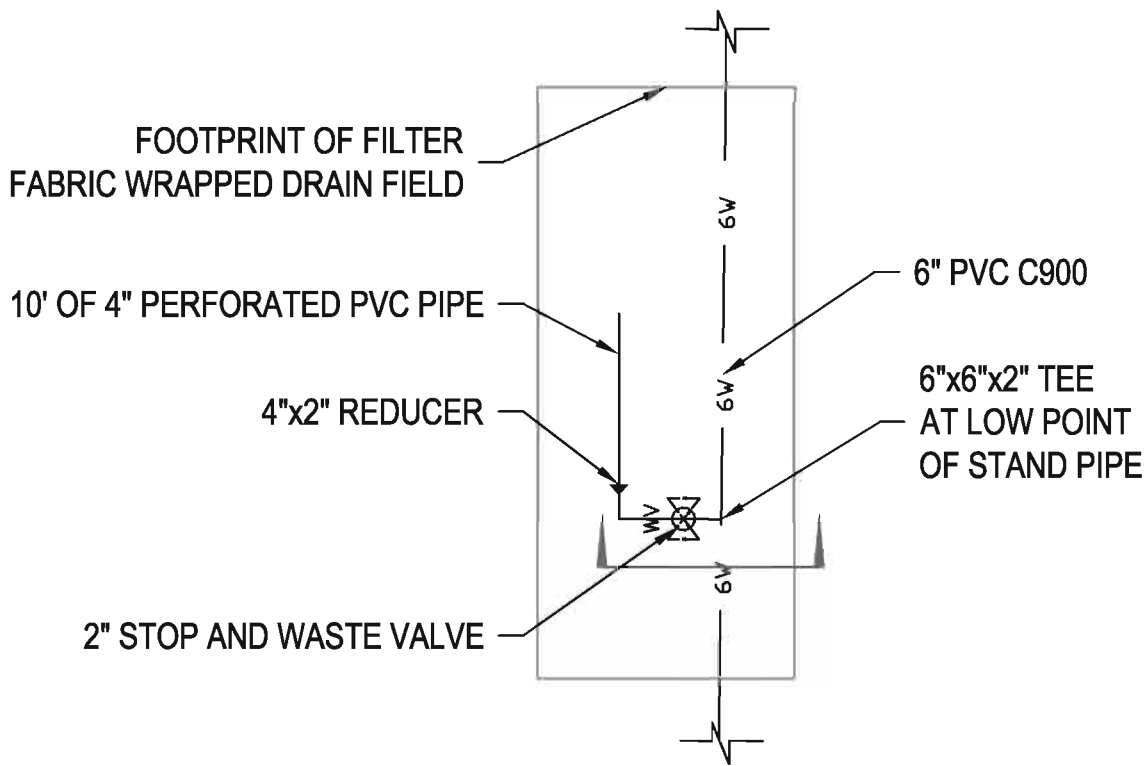
PER THRUST BLOCKING DETAIL

2

YARD HYDRANT OUTLET RISER DETAIL
SCALE: NONE

PLAN NO.
512S2



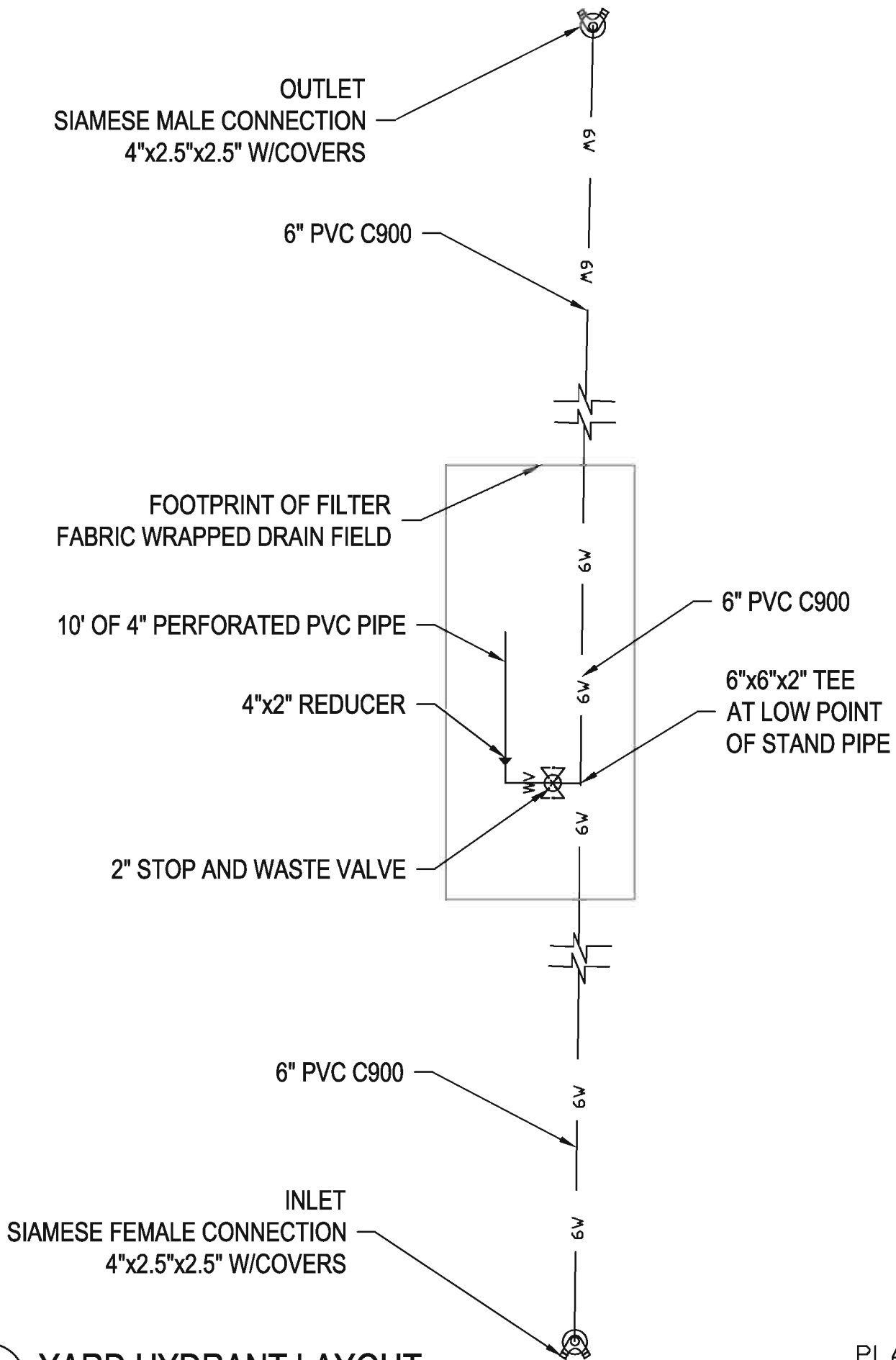


3

YARD HYDRANT DRAIN FIELD AND GATE VALVE DETAIL

SCALE: NONE

PLAN NO.
512S3

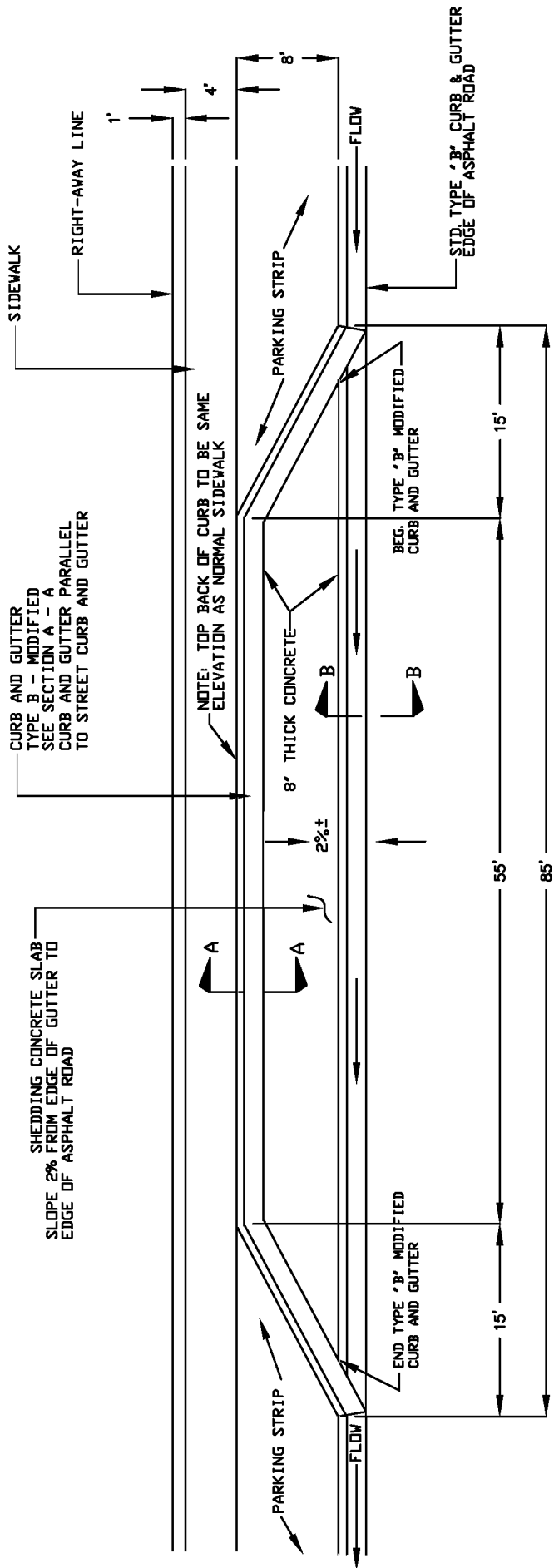


4

YARD HYDRANT LAYOUT

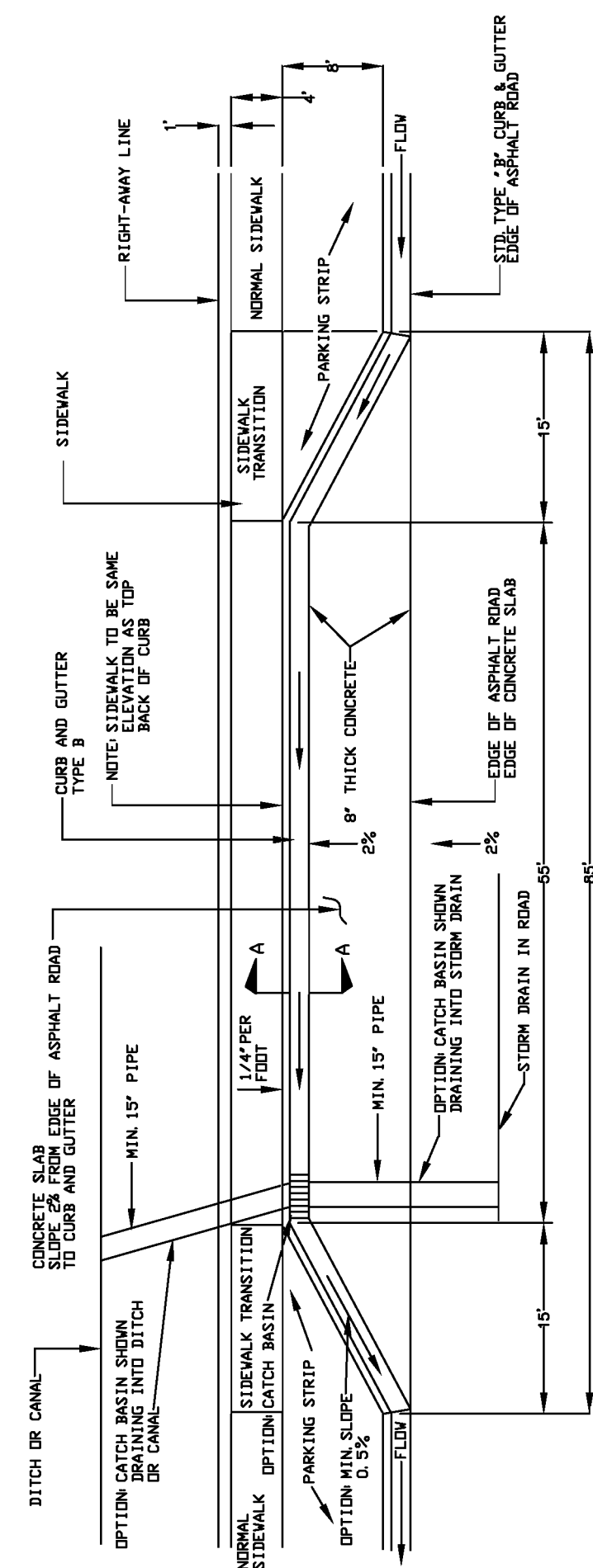
SCALE: NONE

PLAN NO.
512S4



BUS PULL-OUT - TYPE 1

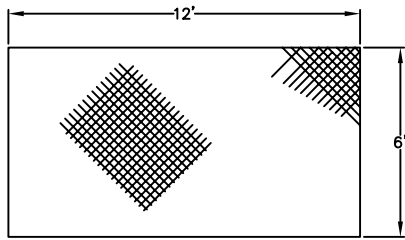
PLAN NO.
881S



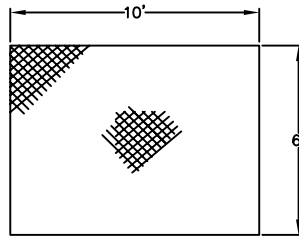
NOTE:
 OPTION 1--DRAIN CURB AND GUTTER IN PULL-OUT TO STREET CURB AND GUTTER AT MIN. GRADE OF 0.50%
 OPTION 2--CONSTRUCT CATCH BASIN AND PIPES TO STORM DRAIN OR TO DITCH FROM LOW POINT.

BUS PULL-OUT - TYPE 2

PLAN NO.
 882S

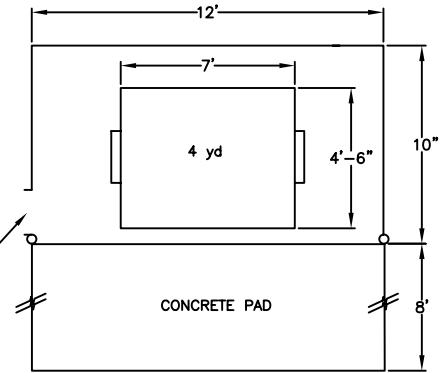


REAR VIEW

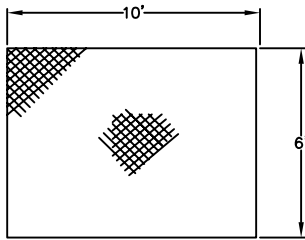


SIDE VIEW

ONE BIN ENCLOSURE

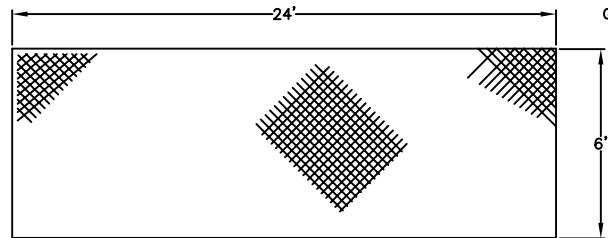
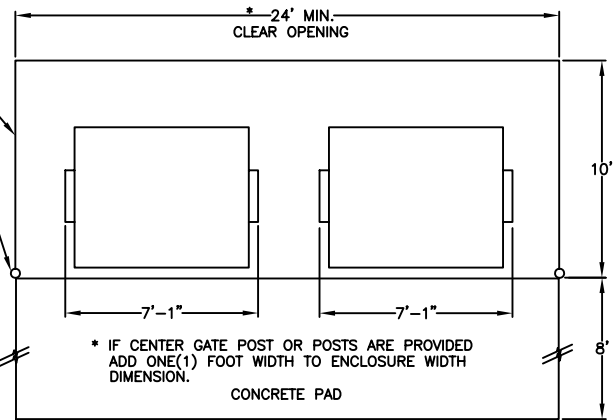


TOP VIEW
ONE BIN ENCLOSURE



SIDE VIEW
TWO BIN ENCLOSURE

GATE POST OR WALL TYP.



REAR VIEW

TWO BIN ENCLOSURE

TOP VIEW

NOTE:

1. MINIMUM ENCLOSURE DIMENSIONS FOR FOUR CUBIC YARD FRONT LOAD SOLID WASTE BINS.
2. ALL DIMENSIONS ARE INSIDE DIMENSIONS TO INSIDE FACE OF WALL OR INSIDE OF POSTS, WHICH EVER IS SMALLER.
3. PROVIDE GATE STOP ON ALL GATES IN OPEN POSITION.
4. NO BREAD OR GREASE TO BE PLACED IN BINS. PROVIDE SEPARATE CONTAINERS.
5. CONSTRUCT POSTS OR RAIL OR CURB ACROSS THE BACK OF THE ENCLOSURE A MINIMUM OF 12" OR AS NECESSARY FROM BACK WALL OR FENCE TO PROVIDE INDICATED CLEARANCE.
6. ALL CONCRETE FLOORS AND CONCRETE PADS SHALL BE 8 INCHES THICK UNLESS OTHERWISE APPROVED BY THE SOLID WASTE DIVISION.

FRONT LOAD SOLID WASTE BIN ENCLOSURE

PLAN NO.
901S