

PLATTING LIMITS

PROJECT LIMITS

EXISTING CONTOUR

PROPOSED CONTOUR

CLEAR VISION EASEMENT

CVE

FLOW ARROW (EXISTING)

FLOW ARROW (PROPOSED)

SILT FENCE

EXISTING ROCK BERM

ROCK BERM TYPE 2(TO BE REMOVED POST CONSTRUCTION)

GRAVEL FILTER BAGS

LIMITS OF PROPOSED AREA (AREA TO BE STABILIZED OUTSIDE OF ROW)

STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)

CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)

CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

EARTHEN BERM W/ POLYLINER AND SPILLWAY (BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION APPROX. 30'-FEET WIDE FROM CURB TO CURB)

STREAM CENTERLINE

VEHICULAR NON ACCESS EASEMENT

VNAE


EXISTING WELL

AREA TO BE PERMANENTLY STABILIZED/VEGETATED OUTSIDE OF PHASE II

SILT FENCE (PHASE II)

FHA LOT GRADING TYPE

A, B, C

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADIENT AREAS.
10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
11. UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
12. WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS, OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LINE OF VEGETATED FILTER STRIP.
13. SHADED AREA  DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
14. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
15. OPS ENERGY WILL FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND WILL BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FENCE TO THE PROJECT.
16. A BEXAR COUNTY ROW PERMIT MUST BE OBTAINED BEFORE WORKING IN ANY BEXAR COUNTY ROW.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

EXHIBIT 2B



**ESPADA TRACT UNIT 16 & 19**  
**SAN ANTONIO, TEXAS**

PLAT NO. 24-11800063  
JOB NO. 12632-20  
DATE JULY 2024  
DESIGNER JG  
CHECKED DW DRAWN AV  
SHEET C8.01



SE I-410 LOOP

CITY OF SAN ANTONIO

WILLOW RD

ROSSETT AVE

CITY OF SAN ANTONIO

S. STANLEY ST

**SITE**

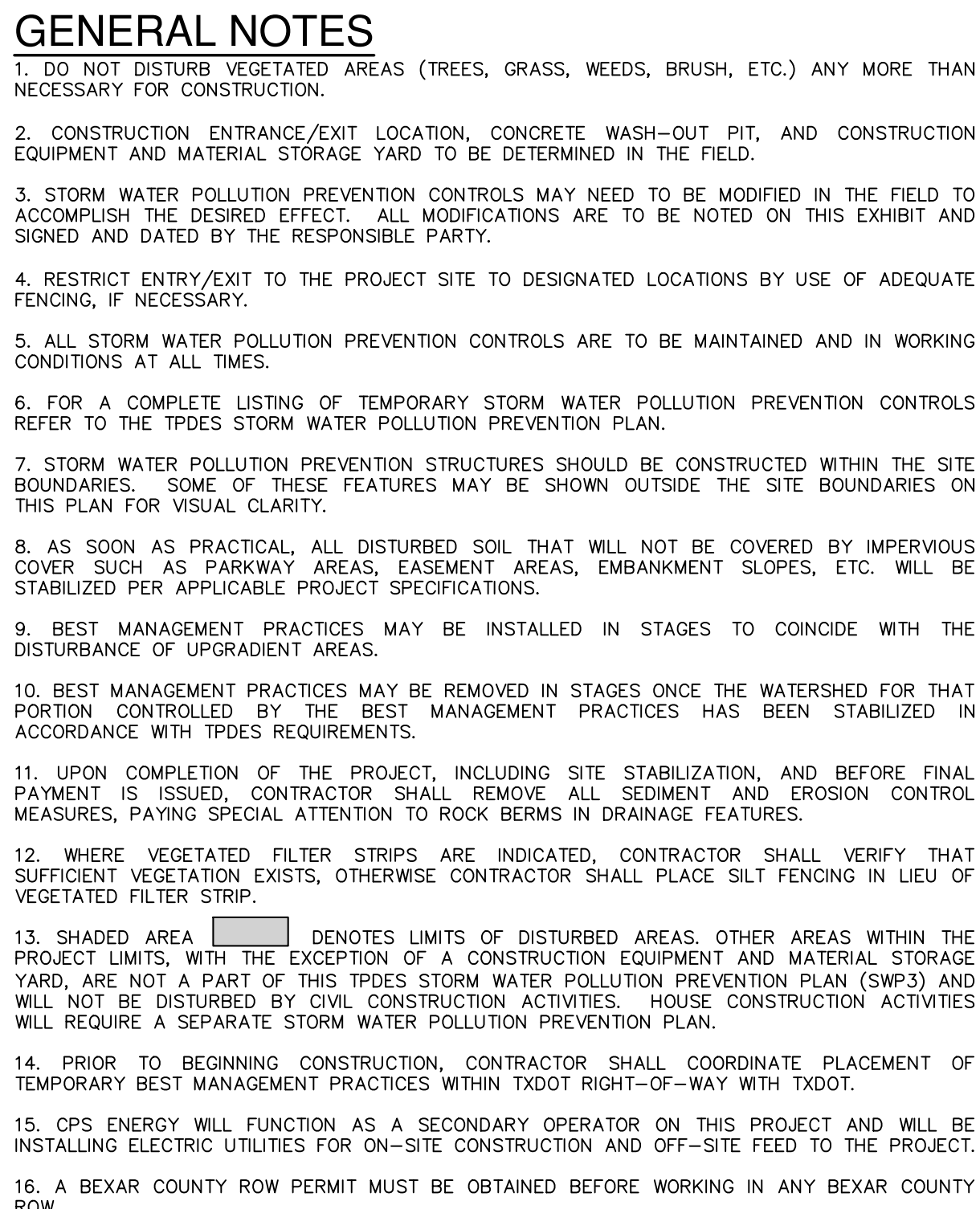
COSA ET/J  
BEXAR COUNTY



**ESPADA TRACT UNIT 16 & 19**  
**SAN ANTONIO, TEXAS**

# SWPPP LEGEND

PLATING LIMITS	----
PROJECT LIMITS	-----
EXISTING CONTOUR	- - - - -976-
PROPOSED CONTOUR	-----970-----
CLEAR VISION EASEMENT	CVE
FLOW ARROW (EXISTING)	→
FLOW ARROW (PROPOSED)	➡
SILT FENCE	--  --  --  --  --  --
EXISTING ROCK BERM	◆ ◆ ◆ ◆
ROCK BERM TYPE 2( TO BE REMOVED POST CONSTRUCTION)	◆ ◆ ◆ ◆
GRAVEL FILTER BAGS	● ● ● ●
LIMITS OF DISTURBED AREA (AREA TO BE STABILIZED OUTSIDE OF ROW)	[Solid Grey Box]
STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)	[Box with Circle Pattern]
CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)	[Box with Diagonal Line Pattern]
CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)	[Box with Dotted Pattern]
EARTHEN BERM W/POLYLYNER AND SPILLWAY (BERMS TO BE SPAN ACROSS PROPOSED STREET SECTION APPROX. 30'-FEET WIDE FROM CURB TO CURB)	▽ ▽ ▽
STREAM CENTERLINE	-----
VEHICULAR NON ACCESS EASEMENT	VNAE
EXISTING WELL	⊙
AREA TO BE PERMANENTLY STABILIZED/VEGETATED OUTSIDE OF PHASE II	[Green Dashed Border Box]
SILT FENCE (PHASE II)	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
FHA LOT GRADING TYPE	A, B, C



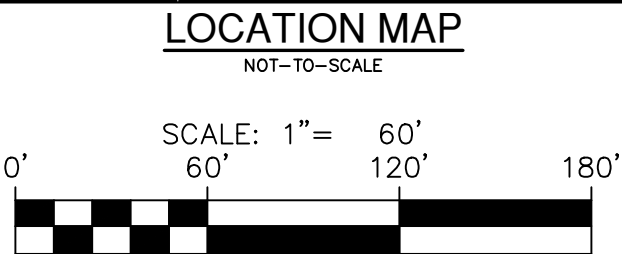
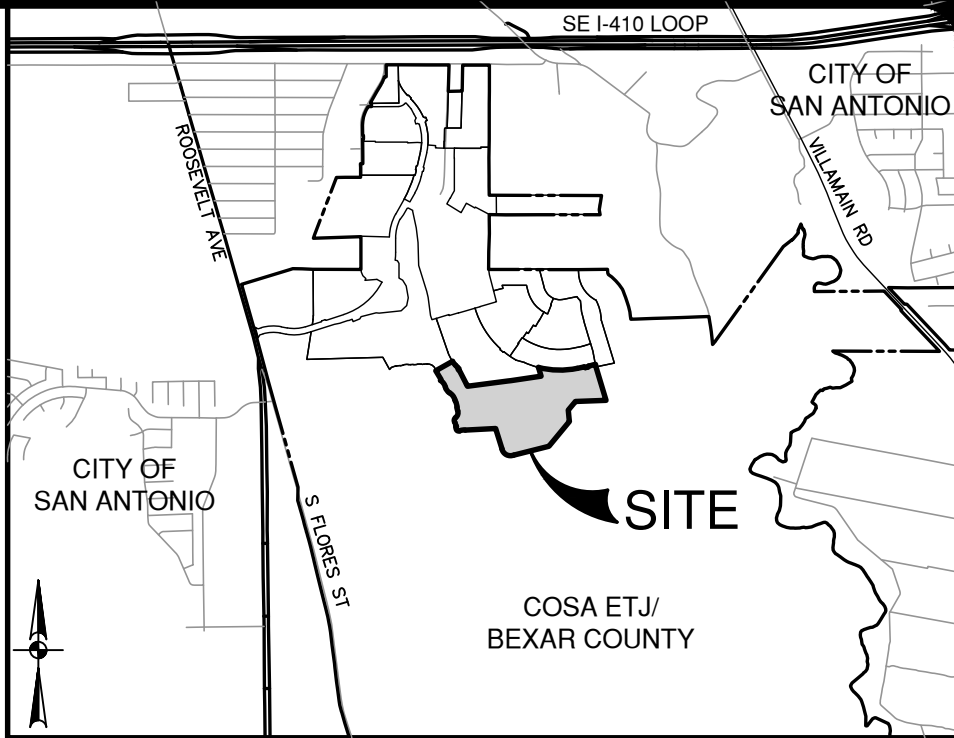
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SWP3 MODIFICATIONS			
DATE	SIGNATURE	DESCRIPTION	

MATCHLINE "E" - SEE SHEET C8.00

PROJECT LIMITS  
(117.55 ACRES)



### SWPPP LEGEND

PLATTING LIMITS	---
PROJECT LIMITS	---
EXISTING CONTOUR	---976---
PROPOSED CONTOUR	---970---
CLEAR VISION EASMENT	CVE
FLOW ARROW (EXISTING)	→
FLOW ARROW (PROPOSED)	→
SILT FENCE	
EXISTING ROCK BERM	
ROCK BERM TYPE 2 (TO BE REMOVED POST CONSTRUCTION)	
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STREAM CENTERLINE	---
VEHICULAR NON ACCESS EASEMENT	VNAE
EXISTING WELL	●
AREA TO BE PERMANENTLY STABILIZED/VEGETATED OUTSIDE OF PHASE II	
SILT FENCE (PHASE II)	
FHA LOT GRADING TYPE	A, B, C

### GENERAL NOTES

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MATCHLINE "D" -  
SEE SHEET C8.01

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EXHIBIT 2D

DATE	
NO.	
REVISION	



**PAPE-DAWSON ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028600

**ESPADA TRACT UNIT 16 & 19**  
SAN ANTONIO, TEXAS

**STORM WATER POLLUTION PREVENTION PLAN**

PLAT NO.	24-11800063
JOB NO.	12632-20
DATE	JULY 2024
DESIGNER	JG
CHECKED	DW
DRAWN	AV
SHEET	C8.03



14' GETCTV EASEMENT  
(DOC# 20240115682, O.P.R.)



PLAT NO. 24-11800063  
JOB NO. 12632-20  
DATE JULY 2024  
DESIGNER JG  
CHECKED DW DRAWN AV  
SHEET C8.04

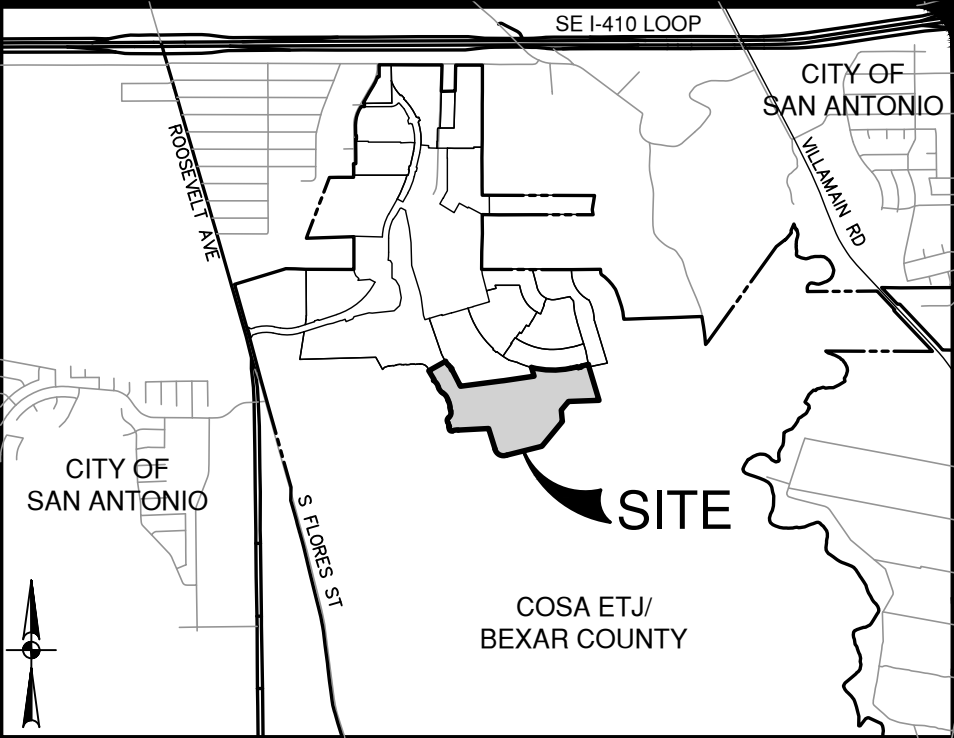
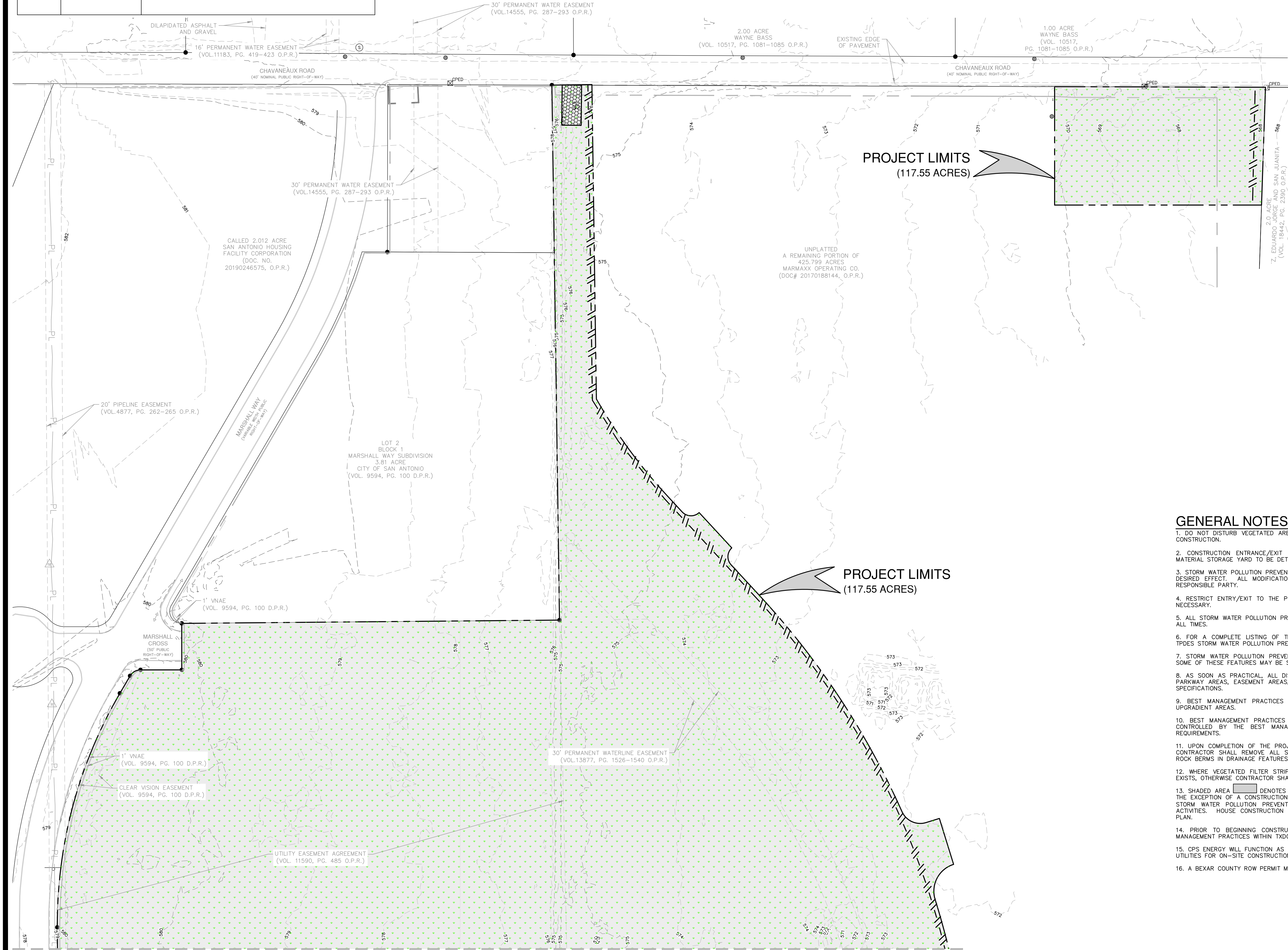
SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION



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PROJECT LIMITS	---
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FLOW ARROW (EXISTING)	→
FLOW ARROW (PROPOSED)	→
SILT FENCE	
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STREAM CENTERLINE	---
VEHICULAR NON ACCESS EASEMENT	VNAE
EXISTING WELL	●
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SILT FENCE (PHASE II)	
FHA LOT GRADING TYPE	A, B, C

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DATE	
NO.	
REVISION	

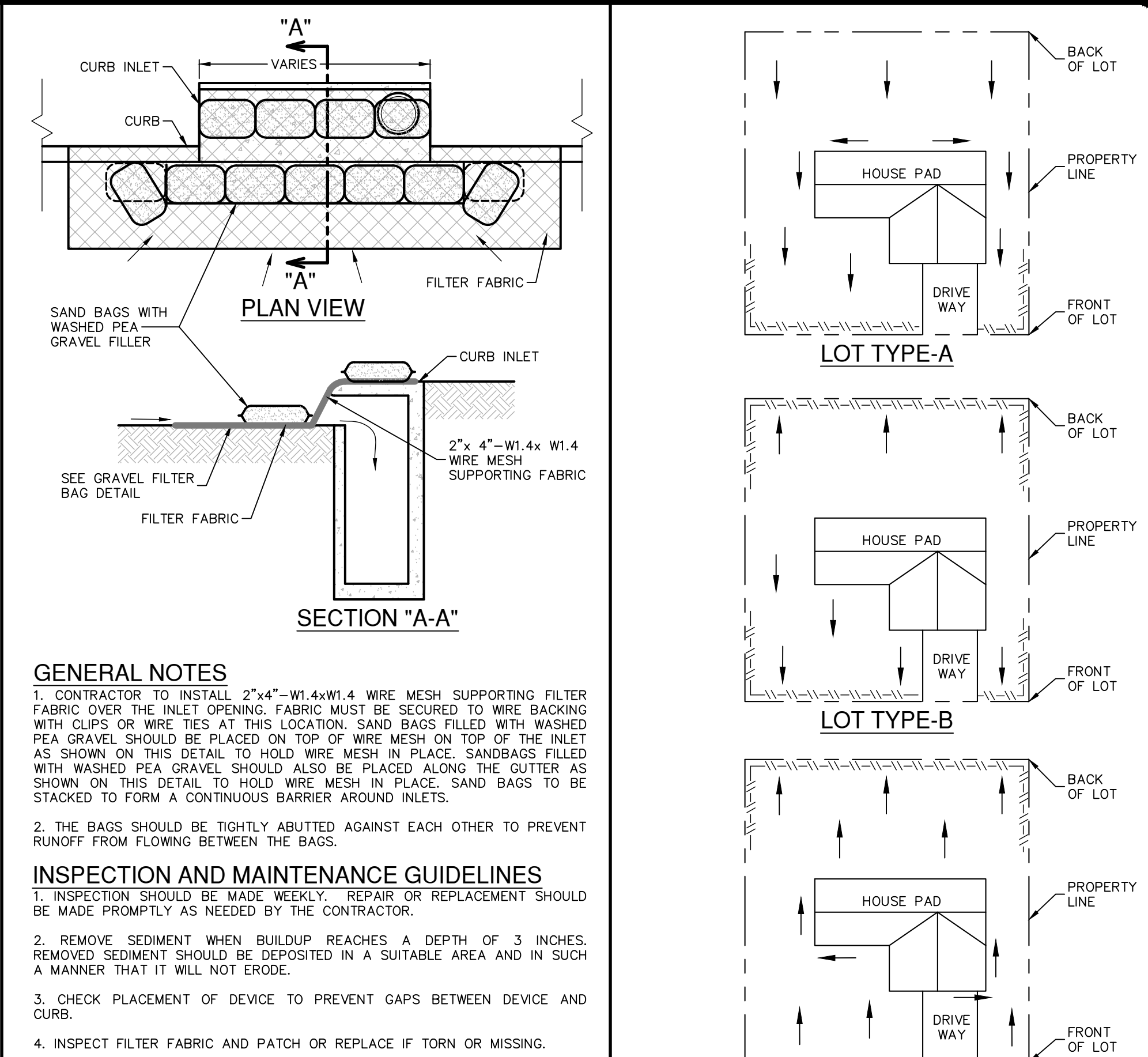
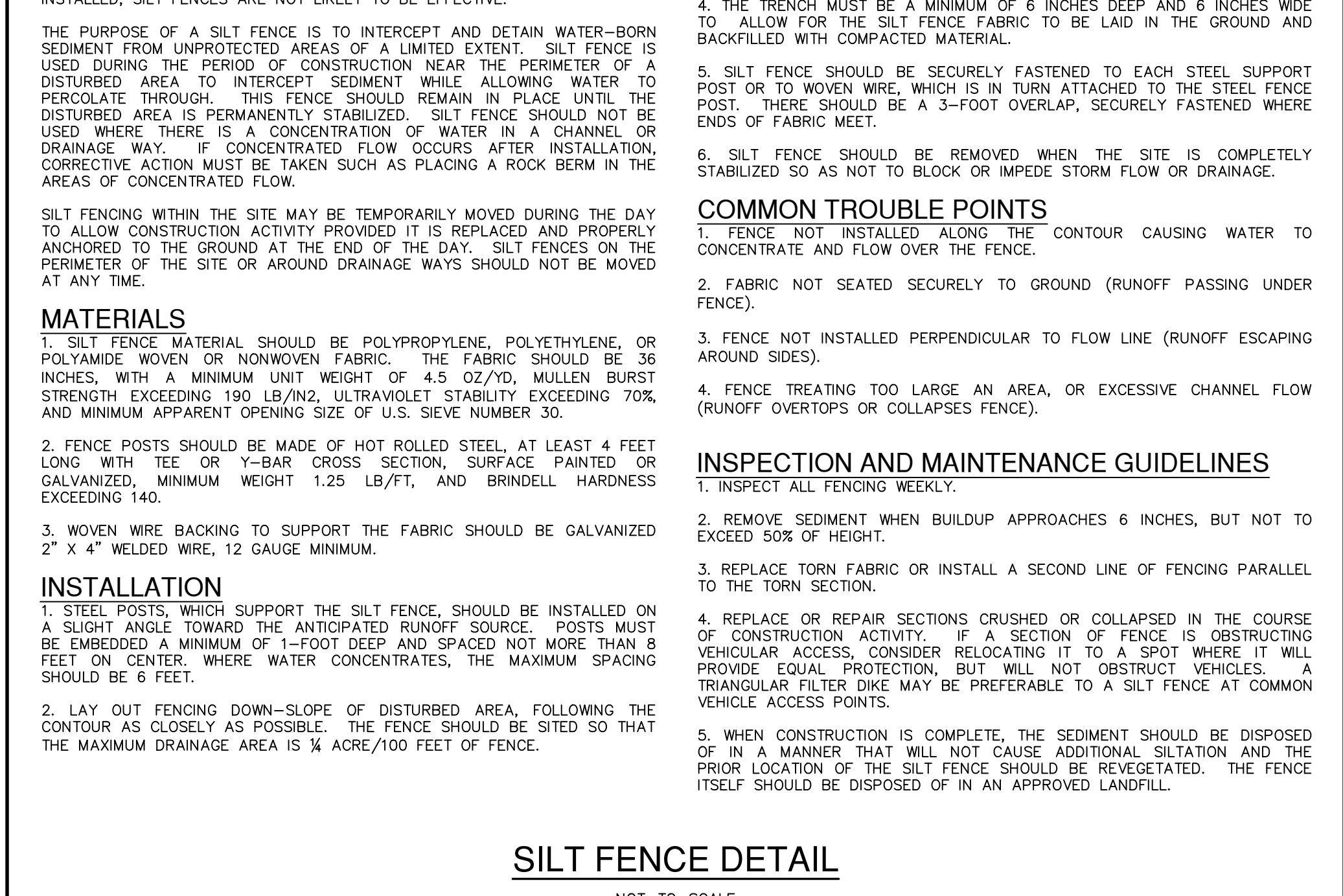
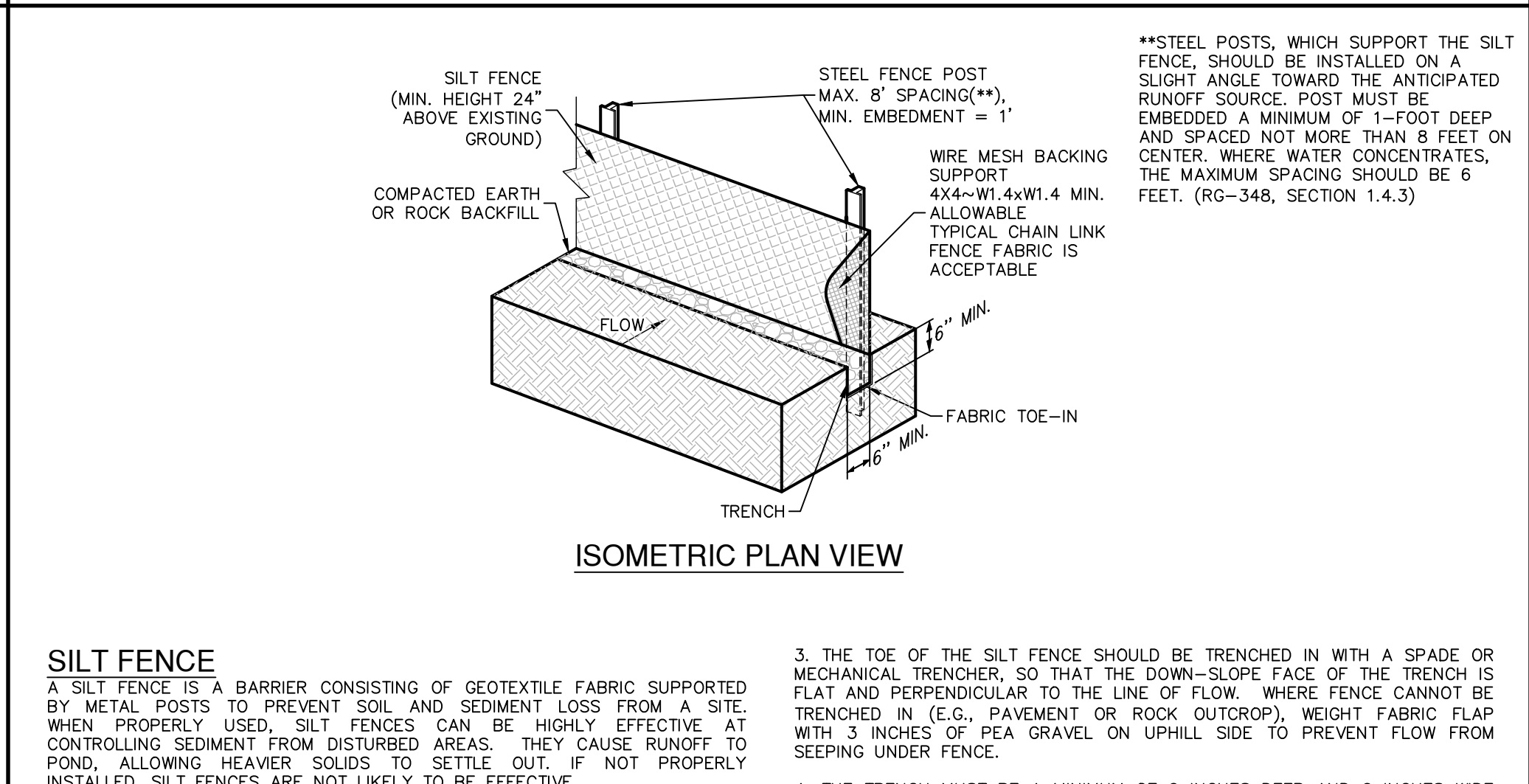
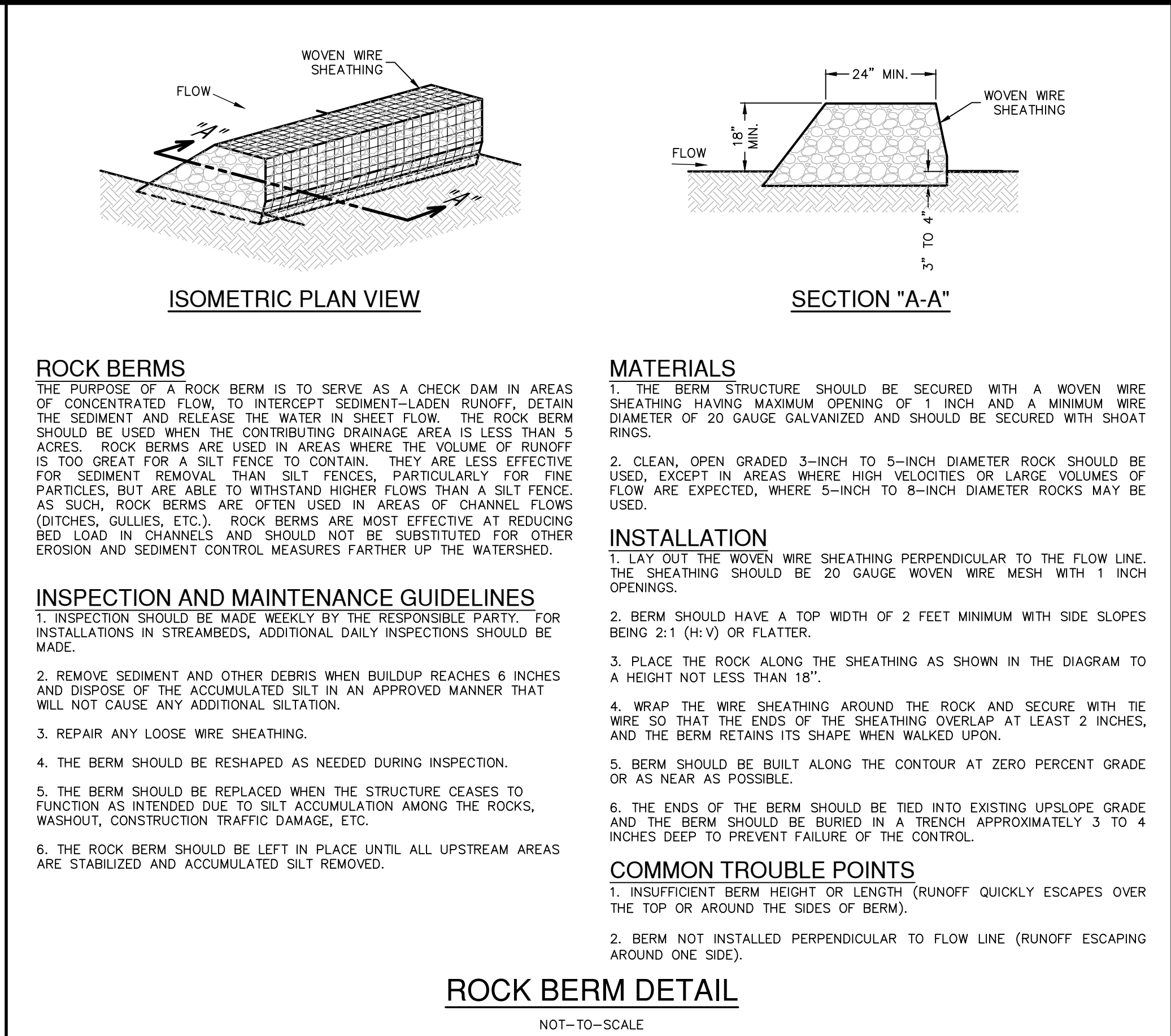
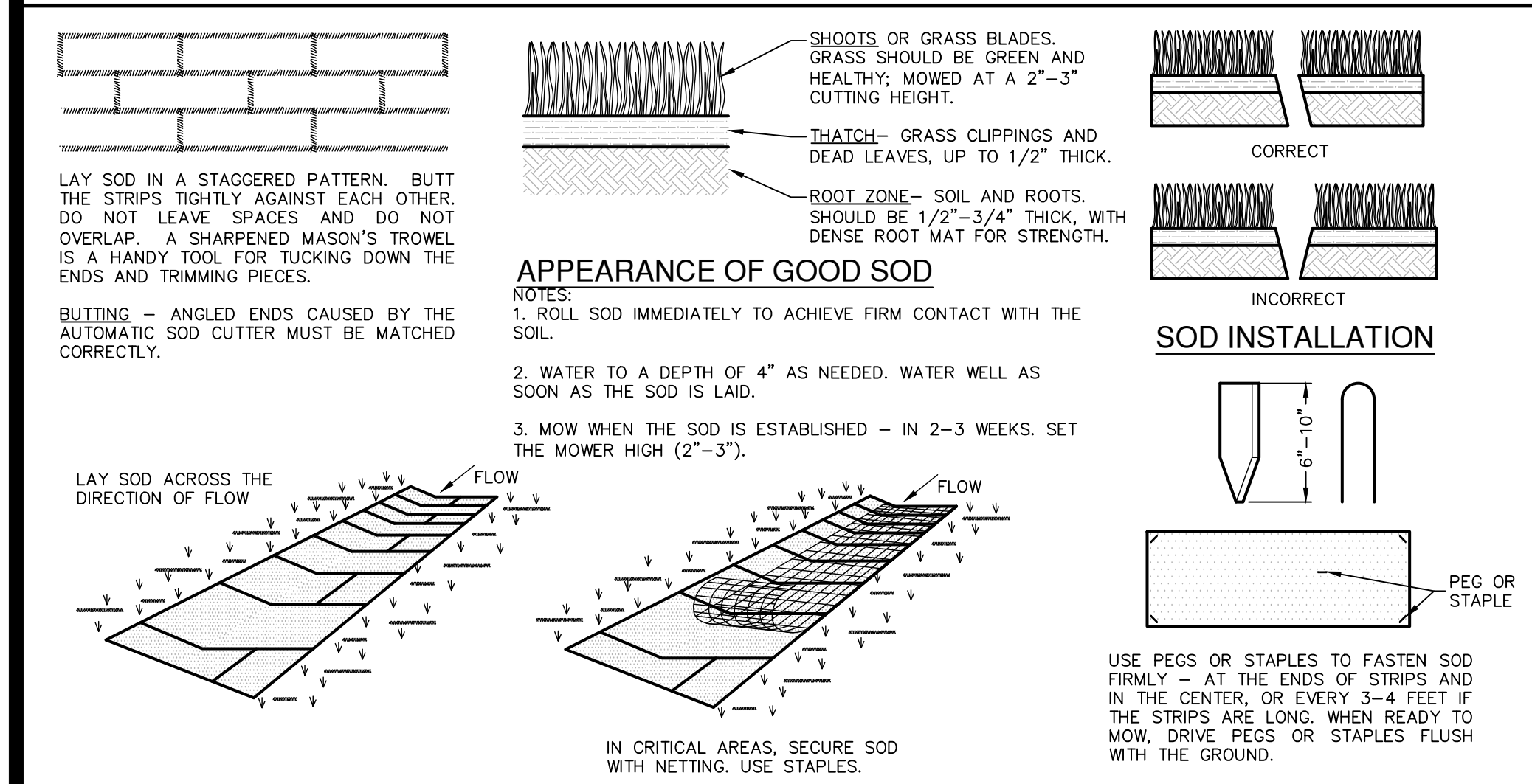
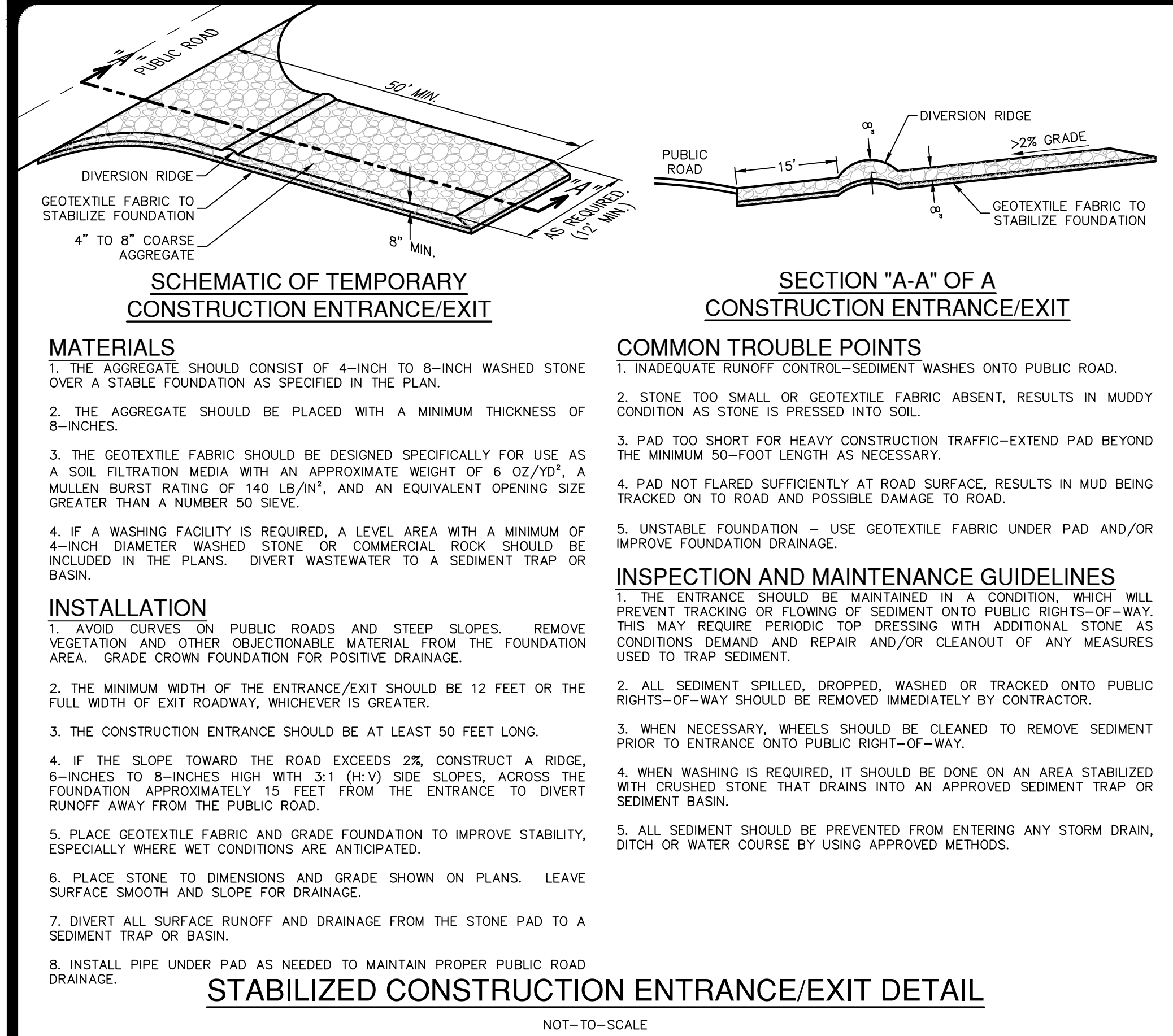


**PAPE-DAWSON ENGINEERS**  
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
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**ESPADA TRACT UNIT 16 & 19**  
SAN ANTONIO, TEXAS  
**STORM WATER POLLUTION PREVENTION PLAN**

PLAT NO.	24-11800063
JOB NO.	12632-20
DATE	JULY 2024
DESIGNER	JG
CHECKED	DW
DRAWN	AV
SHEET	C8.05



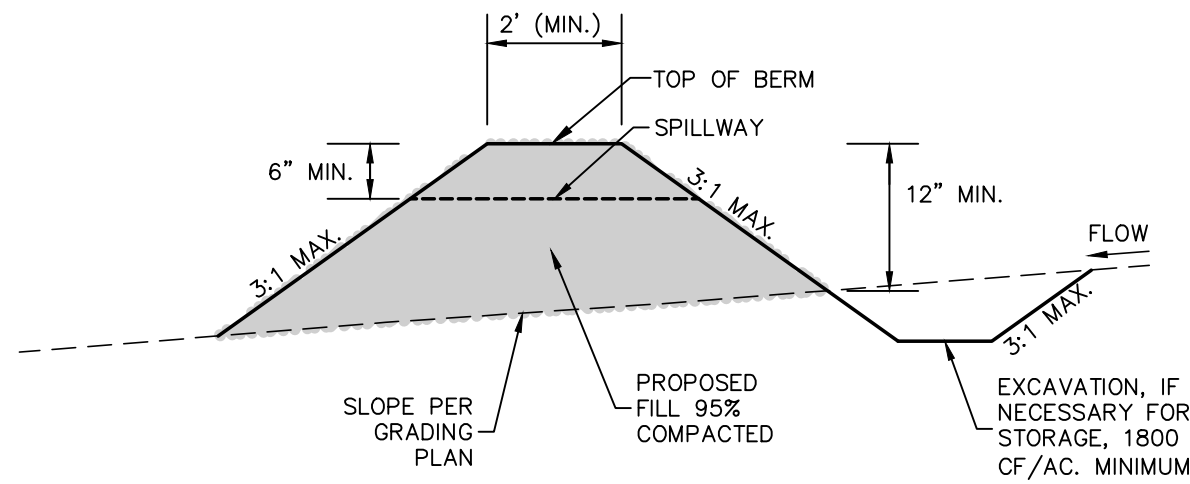








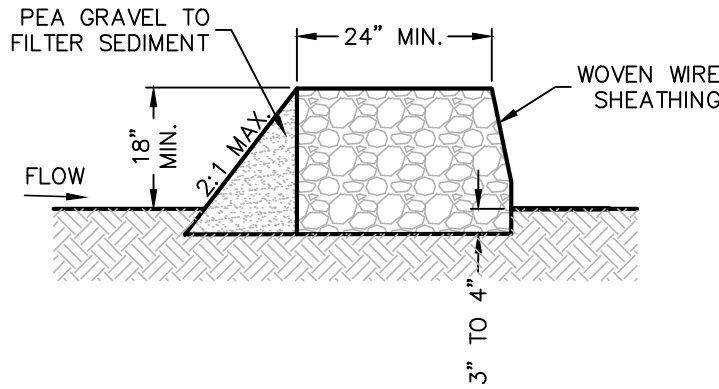
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#### EARTHEN BERM AND SPILLWAY

NOT TO SCALE

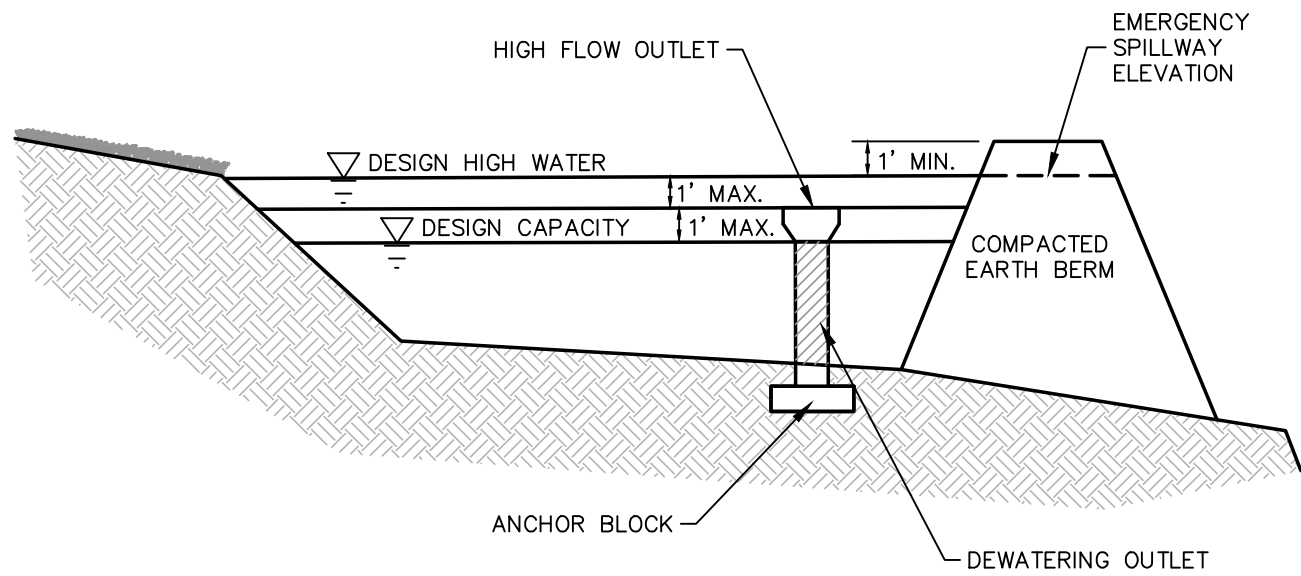
NOTE: EARTHEN BERMS ARE TO SPAN ACROSS PROPOSED STREET SECTION (APPROX. 28-FOOT WIDE) FROM CURB TO CURB



#### ROCK BERM W/ PEA GRAVEL

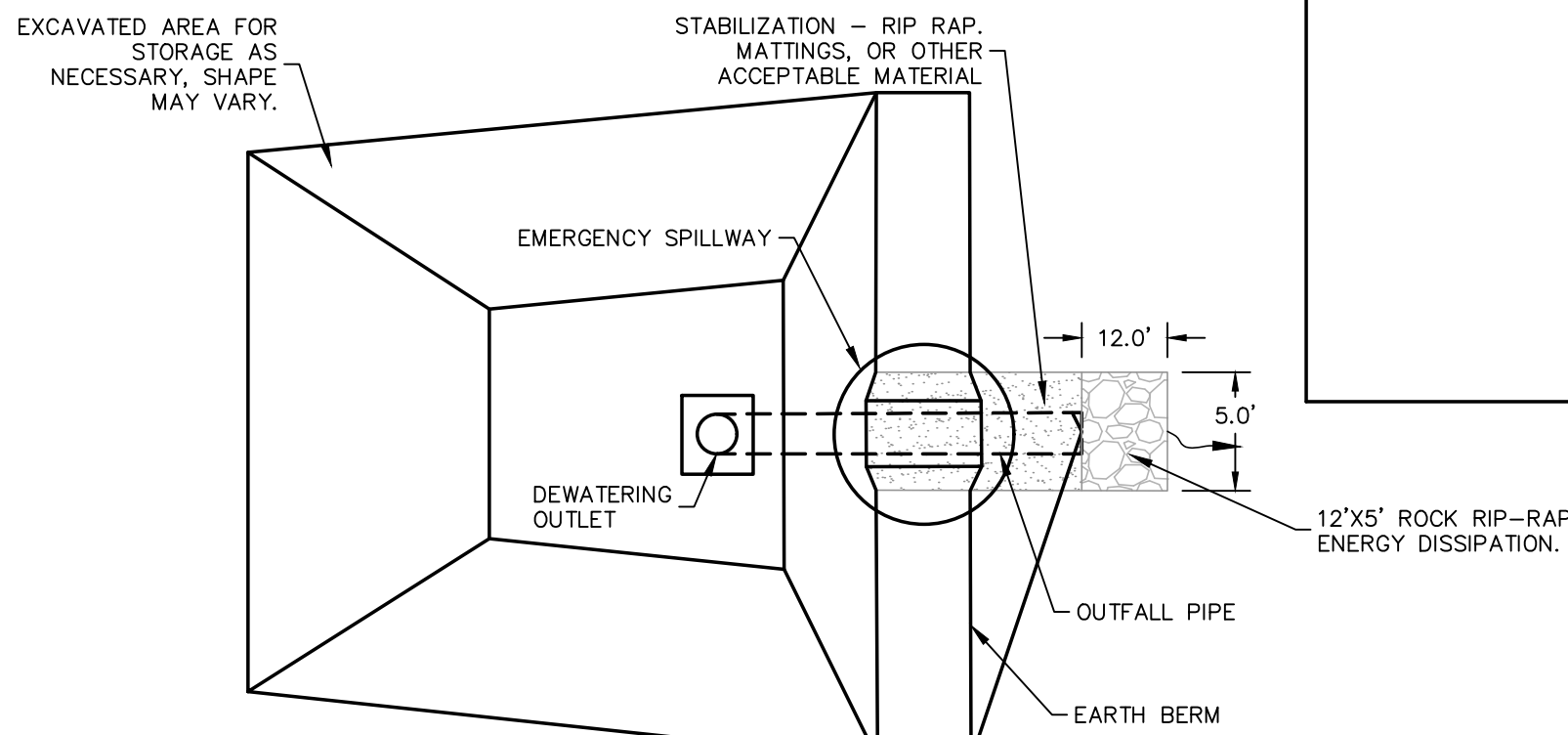
NOT TO SCALE

#### SEDIMENTATION BASIN DETAILS



#### CROSS SECTION

NOT TO SCALE



#### PLAN VIEW

NOT TO SCALE

#### SEDIMENTATION BASIN NOTES

1. THE 48-HOUR DRAWDOWN TIME WILL BE ACHIEVED BY USING A RISER PIPE PERFORATED AT THE POINT MEASURED FROM THE BOTTOM OF THE RISER PIPE EQUAL TO  $\frac{1}{2}$  THE VOLUME OF THE BASIN. THIS IS THE MAXIMUM SEDIMENT STORAGE ELEVATION.

2. THE BASIN SHOULD INCLUDE A PERMANENT STAKE TO INDICATE THE SEDIMENT LEVEL IN THE POOL AND MARKED TO INDICATE WHEN THE SEDIMENT OCCUPIES 50% OF THE BASIN VOLUME (NOT THE TOP OF THE STAKE). RISER PIPES ARE TO BE CLEARLY MARKED AND PERFORATED WITH DE-WATERING HOLES AT THE FOLLOWING ELEVATION:

TEMPORARY SEDIMENTATION BASIN A: 536.80  
3. DE-WATERING HOLES ARE TO HAVE A MINIMUM AREA (A) OF THE FOLLOWING:  
BASIN F MINIMUM DE-WATERING HOLE AREA: 0.055 SF (11~1" PERFORATED HOLES OR EQUAL AREA)

PERFORATING THE RISER WITH MULTIPLE HOLES WITH A COMBINED SURFACE AREA EQUAL TO A IS ACCEPTABLE. HOLES ARE TO BE EVENLY SPACED AROUND THE RISER PIPE FROM THE BOTTOM OF THE PIPE UP TO THE ELEVATION NOTED ABOVE.

4. ACCUMULATED SILT SHOULD BE REMOVED AND THE BASIN SHOULD BE RE-GRADED TO ITS ORIGINAL DIMENSIONS WHEN THE SILT REACHES THE FOLLOWING DEPTH AS MEASURED FROM THE BOTTOM OF THE SEDIMENT DEPTH MARKER:

BASIN F: 1.8 FT (MAX. SEDIMENT STORAGE ELEV. MINUS BASIN INVERT = 536.80' - 535.00' = 1.8 FT)

5. THE TOP OF THE RISER PIPE SHOULD REMAIN OPEN AND BE GUARDED WITH A TRASH RACK AND ANTI-VORTEX DEVICE.

#### SEDIMENTATION BASIN "F" DESIGN DATA

APPROX. BASIN DISTURBED AREA = 14.56 ACRES  
DESIGN RAINFALL DEPTH = 3.91 IN  
SEDIMENTATION VOL. REQ'D = 4,744 AC-FT  
PROVIDED VOLUME = 1,996 AC-FT

#### EMERGENCY SPILLWAY CALCULATIONS - BASIN F

EMERGENCY SPILLWAY = 537.80

$Q_{25} = (Cw)(L)(h)^{\frac{3}{2}}$

$Q_{25 \text{ TOTAL}} = 10.86 \text{ cfs}$

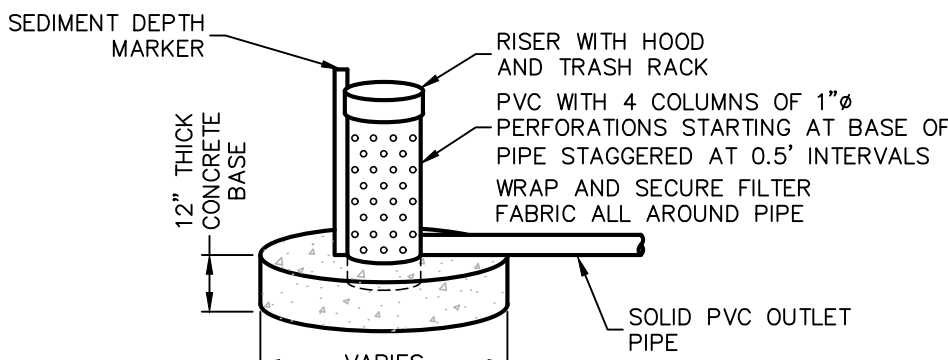
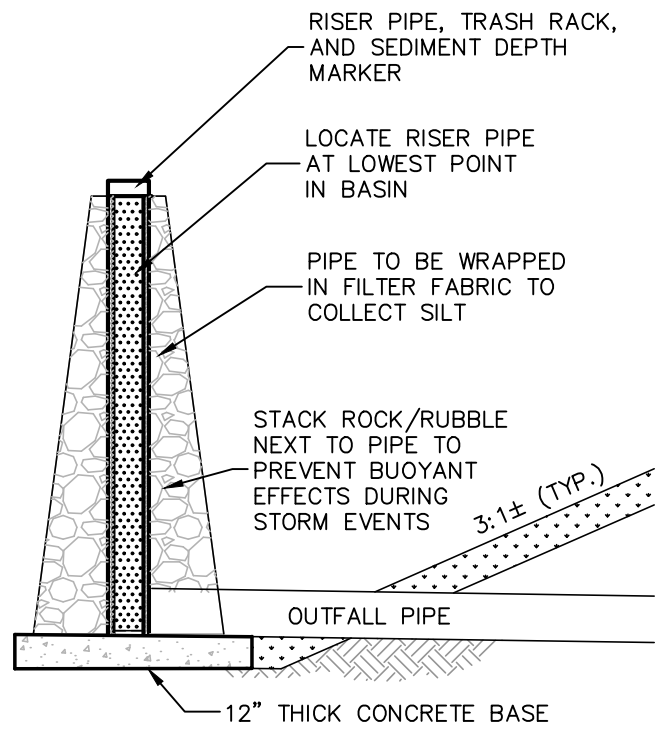
EMERGENCY SPILLWAY FLOW CALCULATION:

C = 3.087

L = 13.0 ft

$10.86 = (3.087)(13.0)(h)^{\frac{3}{2}}$

h = 0.42 ft  $\rightarrow 537.80 + 0.42 = 538.22 \text{ ft}$



#### OUTLET STRUCTURE DETAIL

NOT TO SCALE

**PAPE-DAWSON**  
**ENGINEERS**

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

**ESPADA TRACT UNIT 16 & 19**  
**SAN ANTONIO, TEXAS**  
**STORM WATER POLLUTION PREVENTION DETAILS**

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

**EXHIBIT 3**  
**3 OF 3**

PLAT NO. 24-11800063

JOB NO. 12632-20

DATE JULY 2024

DESIGNER JG

CHECKED DW DRAWN AV

SHEET C8.08