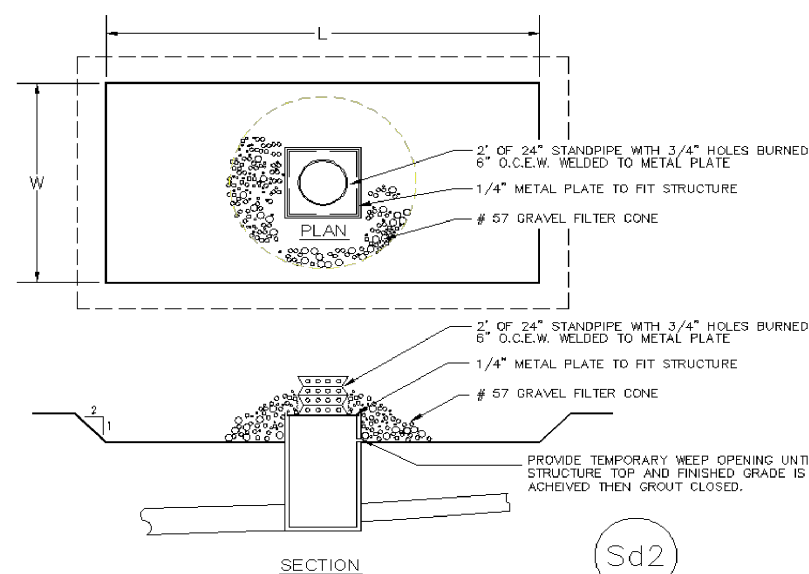


Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. A1

1. Drainage Area = 0.16 ac
2. Required sediment storage (67cy/ac * Da) = 10.72 cy
3. Excavation depth = 1.50 ft
4. Sideslope = 2 : 1
5. Determine required surface area ($SA_{min} = \text{req'd sediment storage} / \text{excavation depth}$)
 $SA_{min} = 7.15 \text{ sf}$

6. Assume shape of excavation and determine dimensions.
Shape = **RECTANGLE**
Dimensions: L = 19.17261 ft W = 9.586303 ft
L = 19.20 ft W = 9.60 ft

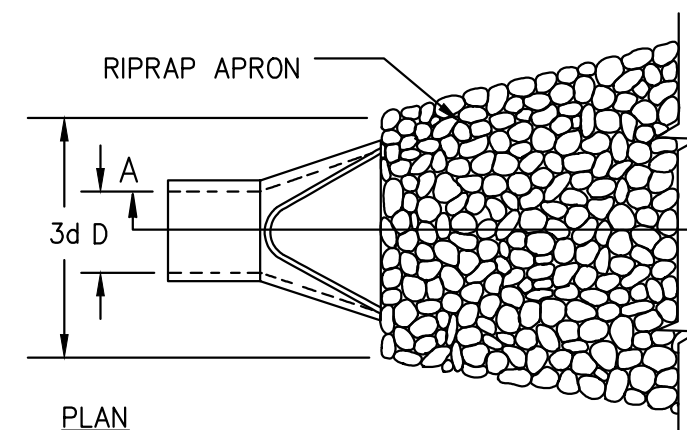


TEMPORARY SEDIMENT TRAP

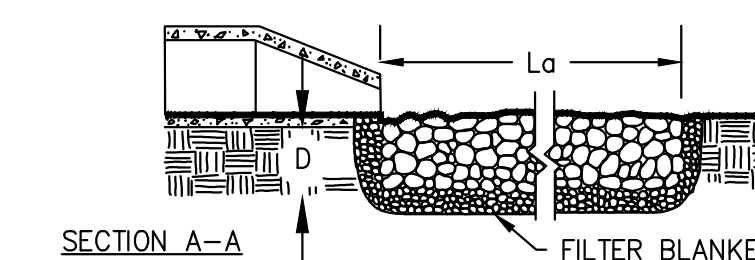
(Sd2)

RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL

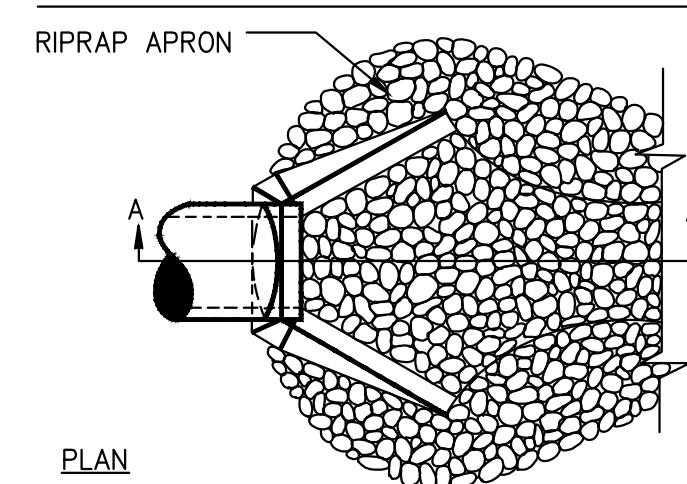


PLAN

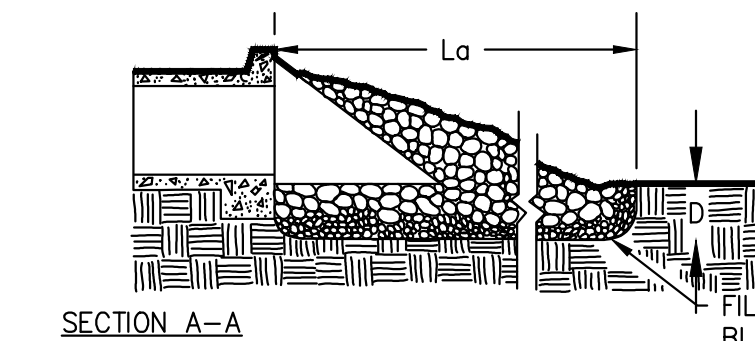


SECTION A-A

PIPE OUTLET TO WELL DEFINED CHANNEL



PLAN

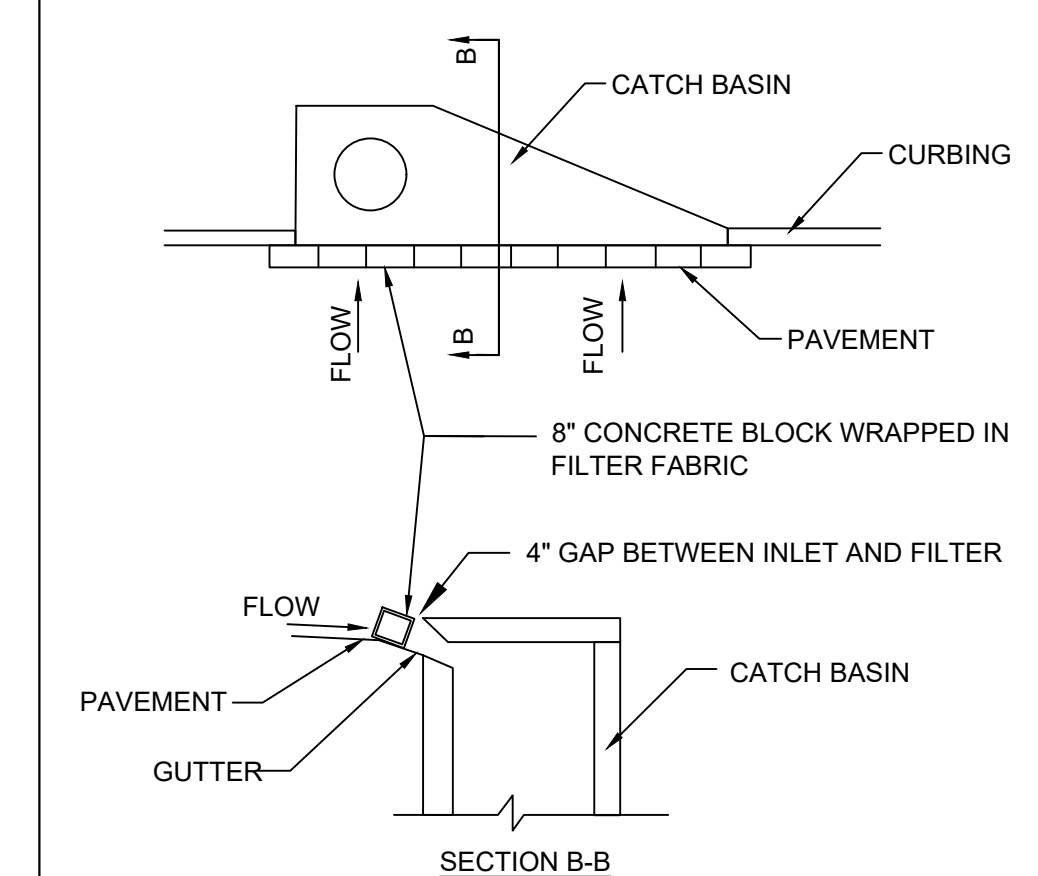


SECTION A-A

NOTES:

1. L_o IS THE LENGTH OF THE RIPRAP APRON.
2. D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

(St)



SECTION B-B

CURB INLET PROTECTION

ONCE PAVEMENT HAS BEEN INSTALLED, A CURB INLET FILTER SHALL BE INSTALLED ON INLETS RECEIVING RUNOFF FROM DISTURBED AREAS. THIS METHOD OF INLET PROTECTION SHALL BE REMOVED IF A SAFETY HAZARD IS CREATED.

ONE METHOD OF CURB INLET PROTECTION USES "PIGS-IN-A-BALNKET": 8-INCH CONCRETE BLOCKS WRAPPED IN FILTER FABRIC. SEE DETAIL. ANOTHER METHOD USES GRAVEL BAGS CONSTRUCTED BY WRAPING DOT #57 STONE WITH FILTER FABRIC, WIRE, PLASTIC MESH, OR EQUIVALENT MATERIAL.

A GAP OF APPROXIMATELY 4 INCHES SHALL BE LEFT BETWEEN THE INLET FILTER AND THE INLET TO ALLOW FOR OVERFLOW AND PREVENT HAZARDOUS PONDING IN THE ROADWAY. PROPER INSTALLATION AND MAINTENANCE ARE CRUCIAL TO AVOID PONDING IN THE ROADWAY, RESULTING IN A HAZARDOUS CONDITION.

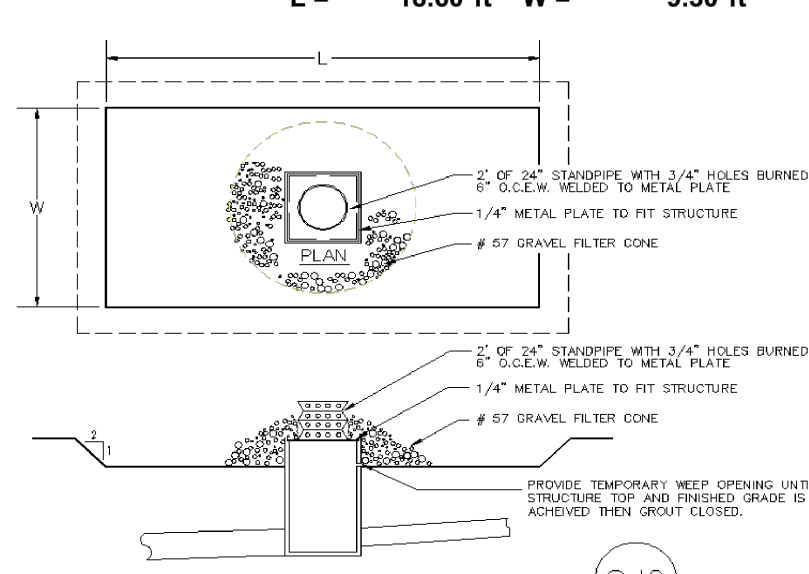
(Sd2-P) CURB INLET PROTECTION

Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. A3

1. Drainage Area = 0.15 ac
2. Required sediment storage (67cy/ac * Da) = 10.05 cy
3. Excavation depth = 1.50 ft
4. Sideslope = 2 : 1
5. Determine required surface area ($SA_{min} = \text{req'd sediment storage} / \text{excavation depth}$)
 $SA_{min} = 6.70 \text{ sf}$

6. Assume shape of excavation and determine dimensions.
Shape = **RECTANGLE**
Dimensions: L = 18.5638 ft W = 9.281898 ft
L = 18.60 ft W = 9.30 ft



TEMPORARY SEDIMENT TRAP

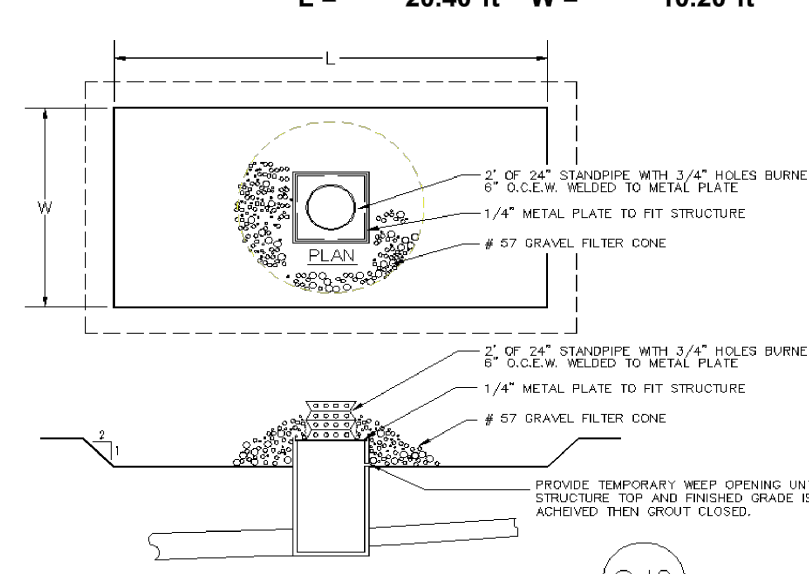
(Sd2)

Excavated Inlet Sediment Trap Design Sheet

Project Name: HWY 81 C-STORE
Structure No. A2

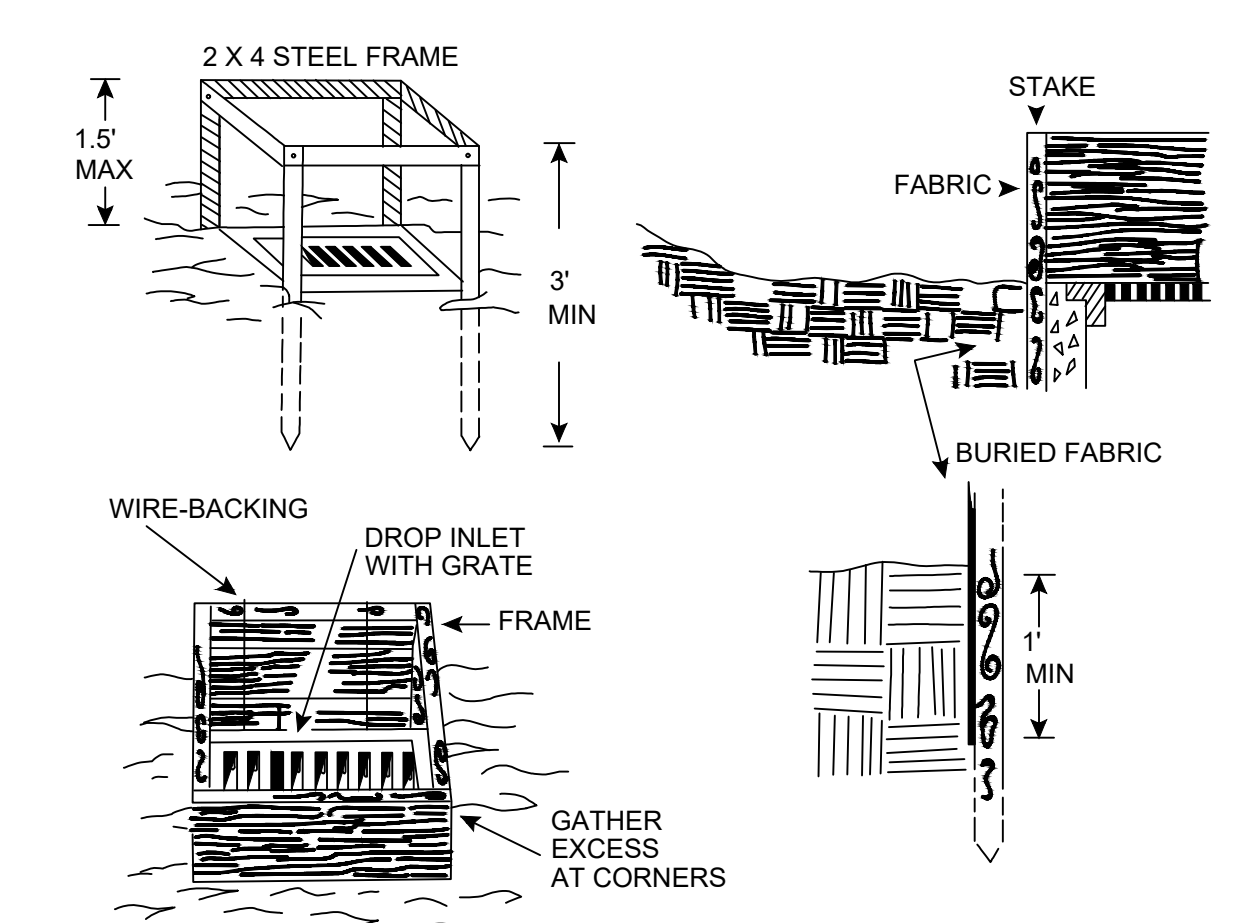
1. Drainage Area = 0.18 ac
2. Required sediment storage (67cy/ac * Da) = 12.06 cy
3. Excavation depth = 1.50 ft
4. Sideslope = 2 : 1
5. Determine required surface area ($SA_{min} = \text{req'd sediment storage} / \text{excavation depth}$)
 $SA_{min} = 8.04 \text{ sf}$

6. Assume shape of excavation and determine dimensions.
Shape = **RECTANGLE**
Dimensions: L = 20.33562 ft W = 10.16781 ft
L = 20.40 ft W = 10.20 ft



TEMPORARY SEDIMENT TRAP

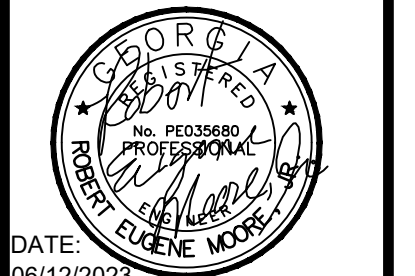
(Sd2)



FILTER FABRIC WITH SUPPORTING FRAME

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) AND SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS. AS SHOWN IN DETAIL, TYPE C SILT FENCE SUPPORTED BY STEEL POSTS SHALL BE USED. THE STAKES SHALL BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART, AND SECURELY DRIVEN IN TO THE GROUND, APPROXIMATELY 18 INCHES DEEP. THE FABRIC SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED WITH WITH CRUSHED STONE OR COMPACTED SOIL. FABRIC AND WIRE SHALL BE SECURELY FASTENED TO THE POSTS, AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18 INCHES OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.

(Sd2-F) FILTER FABRIC WITH SUPPORTING FRAME



DATE: 06/12/2023

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REVISIONS:

DATE	DESCRIPTION
6/21/22	GRADING PLAN
10/21/22	1st LDP SUBMITTAL
10/21/22	1ST GDOT SUBMITTAL
01/30/2023	NEW LAYOUT
02/21/2023	NEW LAYOUT
05/09/2023	2nd LDP SUBMITTAL
05/09/2023	2nd GDOT SUBMITTAL
12/19/2023	3rd GDOT SUBMITTAL
12/19/2023	3rd LDP SUBMITTAL
03/05/2023	4rd LDP SUBMITTAL
03/05/2023	3rd GDOT SUBMITTAL
04/24/2024	6TH GDOT SUBMITTAL
05/21/2024	7TH GDOT SUBMITTAL
12/12/2024	8TH GDOT SUBMITTAL
03/06/2025	5TH LDP SUBMITTAL
07/03/2025	6TH LDP SUBMITTAL