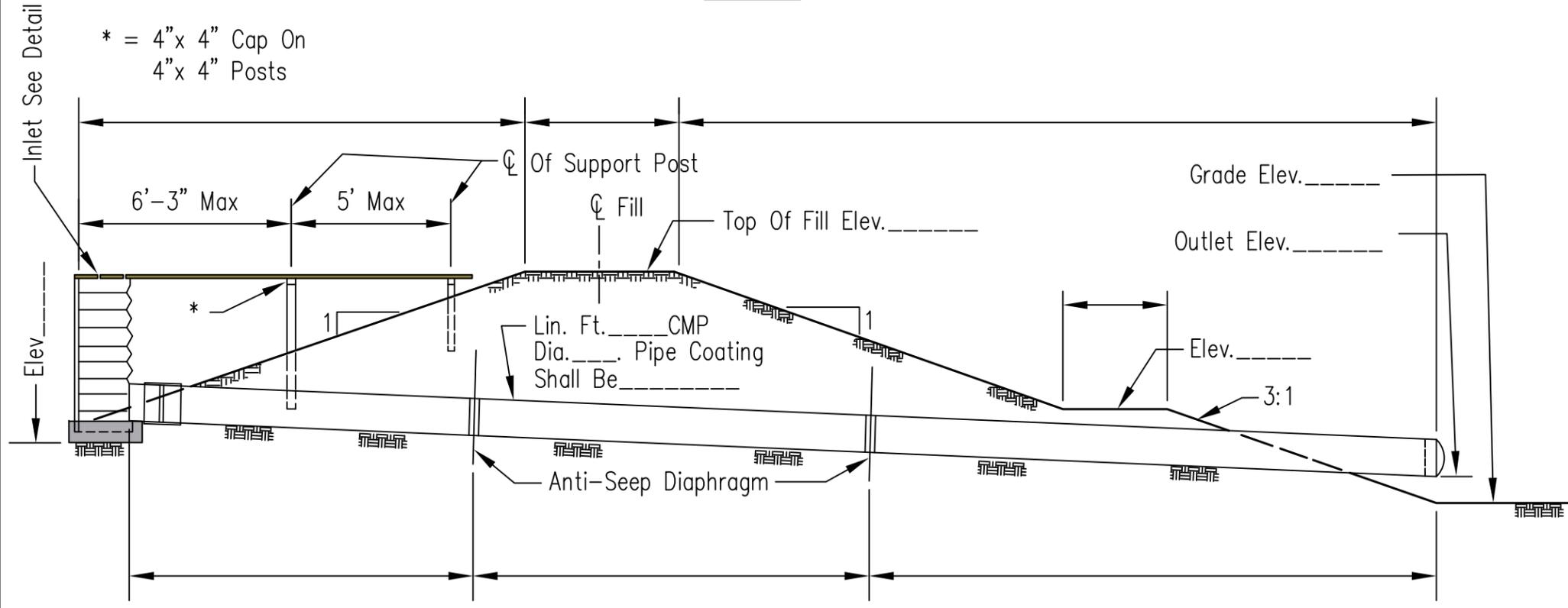


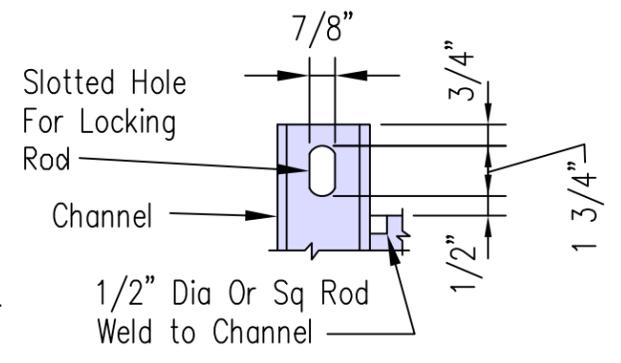
PLAN

NOMINAL STOP LOG THICKNESS IN INCHES **					
Dia. Of Inlet (Inches)	Height Of Inlet (Ft)				
	4	5	6	7	8
48	2	2	3	3	3
54	2	3	3	3	3
60	3	3	3	3	4
66	3	3	3	4	4
72	3	3	4	4	4
76	3	4	4	4	4
78	4	4	4	5	5

**Based On Fiber Stress + 1,000 PSI
And Shear Stress = 80 PSI



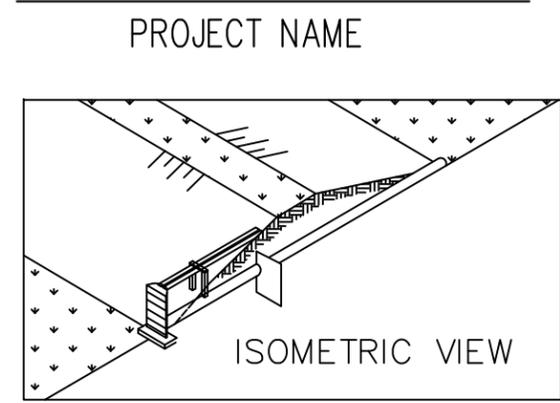
SECTION ON CENTERLINE



DETAIL A

NOTES:

1. Earth fill around pipe shall be uniformly and thoroughly compacted by hand equipment to a depth of at least 2 feet above the crown of the pipe before hauling or rolling equipment is permitted to pass over structure.
2. Lumber - Stop Logs and Walkway shall be free from defects such as large knots or groups of knots near the center.
3. Reference Drawing-For Details of Anti-Seep Diaphragm see Drawing ____ . For details of Watertight Coupling Bands see Drawing ____ .
4. All lumber shall be treated with CCA preservative to a 0.40 pcf retention.



Date _____ 9/13

Designed _____ M. QUINONES

Drawn _____

Checked _____

Approved _____

WATER LEVEL CONTROL STRUCTURE

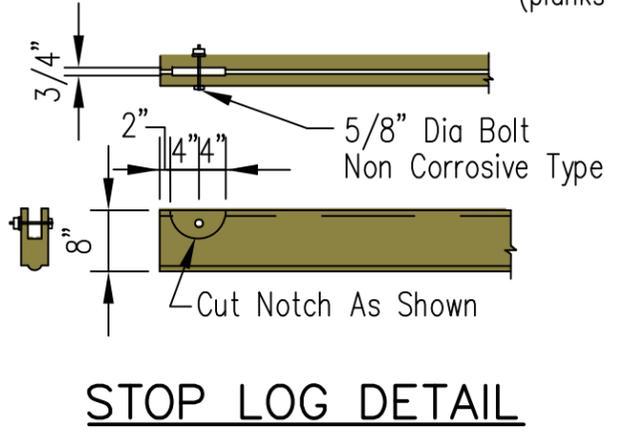
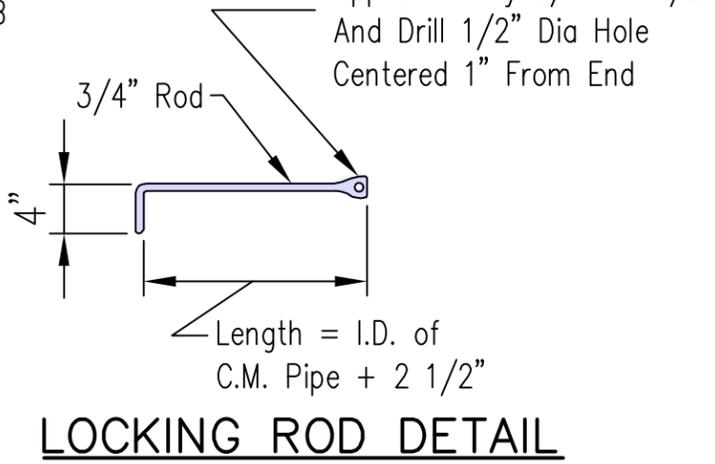
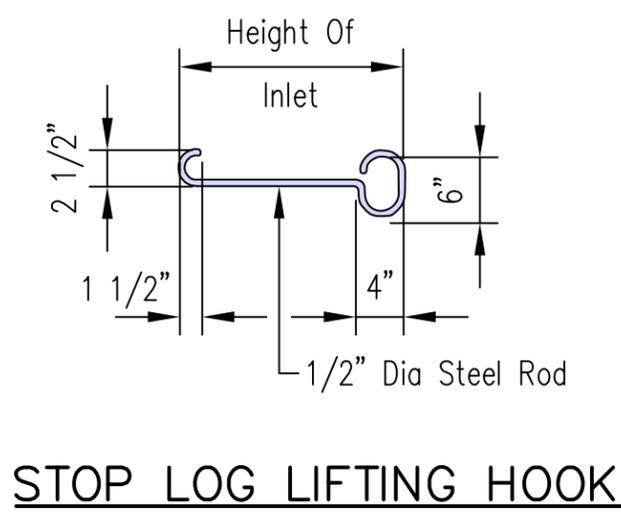
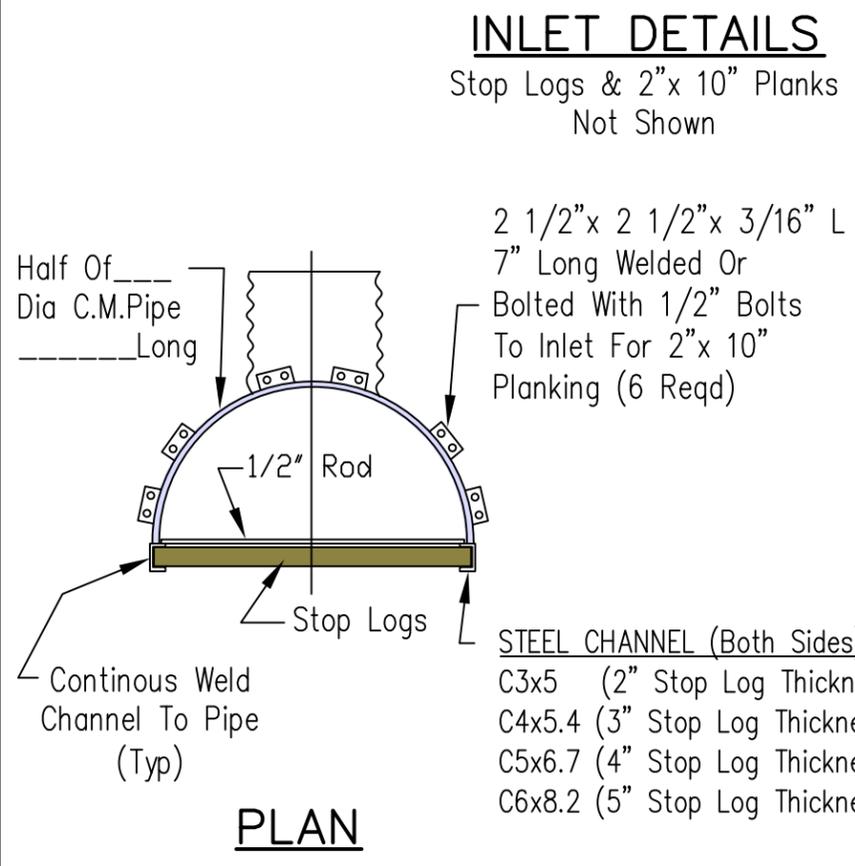
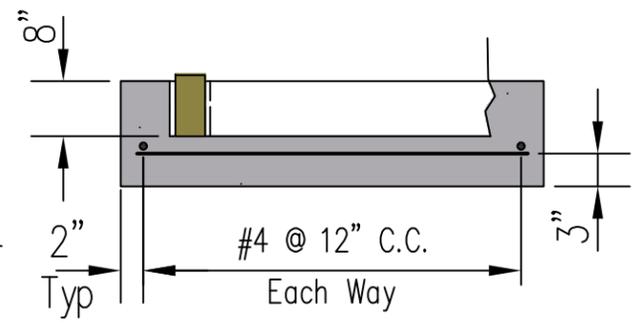
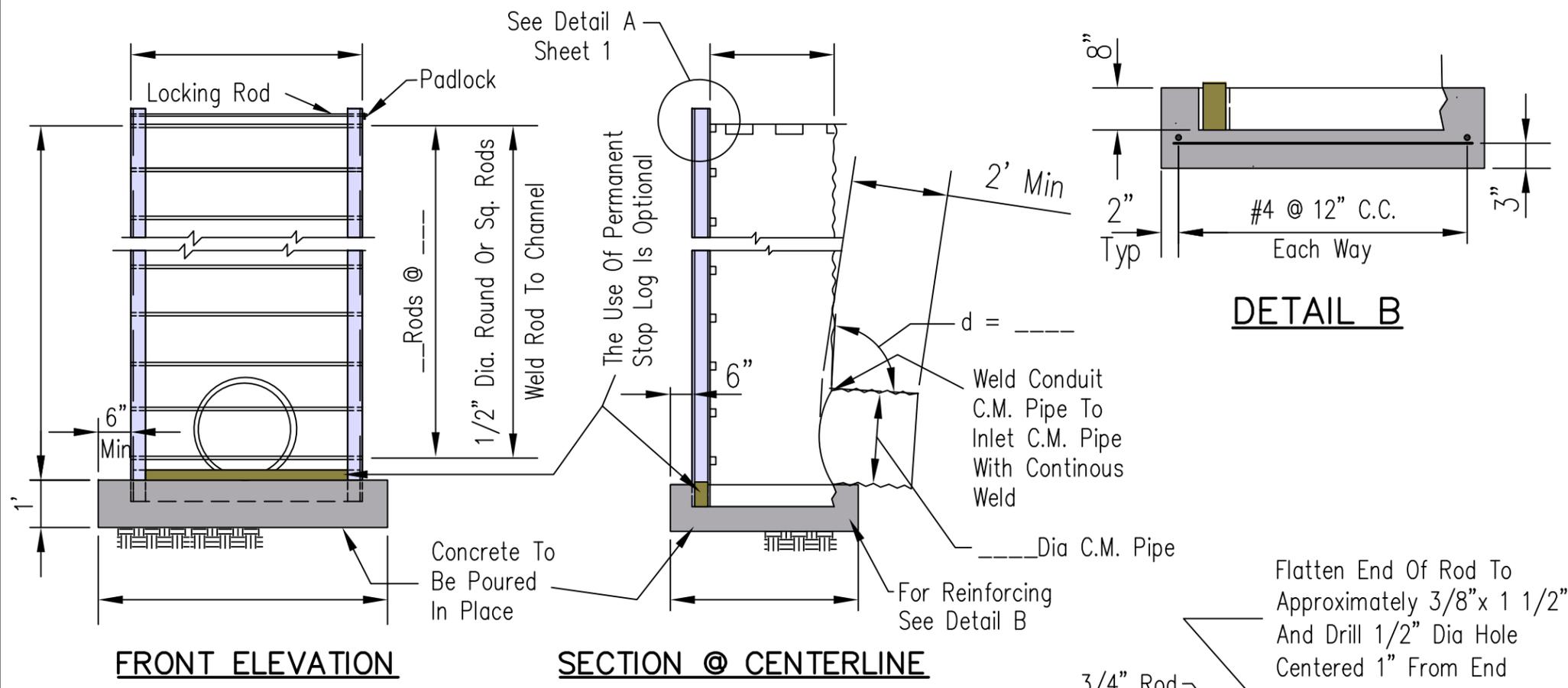


File No. IL-ENG-164

Drawing No. _____

Page 1 of 2

Sheet _____ of _____



BILL OF MATERAIL

- Inlet**
 ___Lin ft. Half of Corrugated Metal Pipe
 ___Dia ___gage, assembled as shown in detail on this drawing.
 ___Cu. Yd. Concrete poured in place
 ___ft. or ___Lbs. reinforcing steel, 1/2" dia.
- Conduit**
 ___Lin ft. Corrugated Metal Pipe
 ___Dia ___gage, consisting of:
 1 Section (Riser Stub) ___ Lin. ft.
 ___Section ___ Lin. ft.
 1 Outlet Section ___20'-0" Lin. ft.
 1 Flap Gate
 2 Anti-Seep Diaphragm
- Stop Logs**
 ___Required- ___x___x___Long
- Stop Log Lifting Hook**
 2 Required-See Detail
- Locking Rod**
 1 Required-See Detail
- Plank Walkway**
 2 Pieces 2"x10"x Dia. Riser + 9" long (over inlet)
 2 Pieces 2"x10"x11'-3" long (walkway)
 2 pieces 4"x4"x3'-0" long (caps)
 2 pieces 4"x4"x3'-0" long (posts)
 2 pieces 4"x4"x4'-6" long (posts)
 4 Drift Pins 1/2" Dia. x 10" long (Posts to Caps)
 12 Carriage Bolts 1/2"x3" long (planks to inlet)
 8 Carriage Bolts 1/2"x7" long (planks to caps)

Conduit & Riser Dia. Relationship			
Diameter In Inches			
Conduit	Riser	Conduit	Riser
12	48	27	48
15	48	30	54
18	48	36	66
21	48	42	78
24	48	48	84

WATER LEVEL CONTROL STRUCTURE

NRCS
 Natural Resources Conservation Service
 United States Department of Agriculture

File No. IL-ENG-164
 Drawing No. _____
 Page 2 of 2
 Sheet _____ of _____

Designed _____
 Drawn M. QUINONES
 Checked _____
 Approved _____

Date 9/13