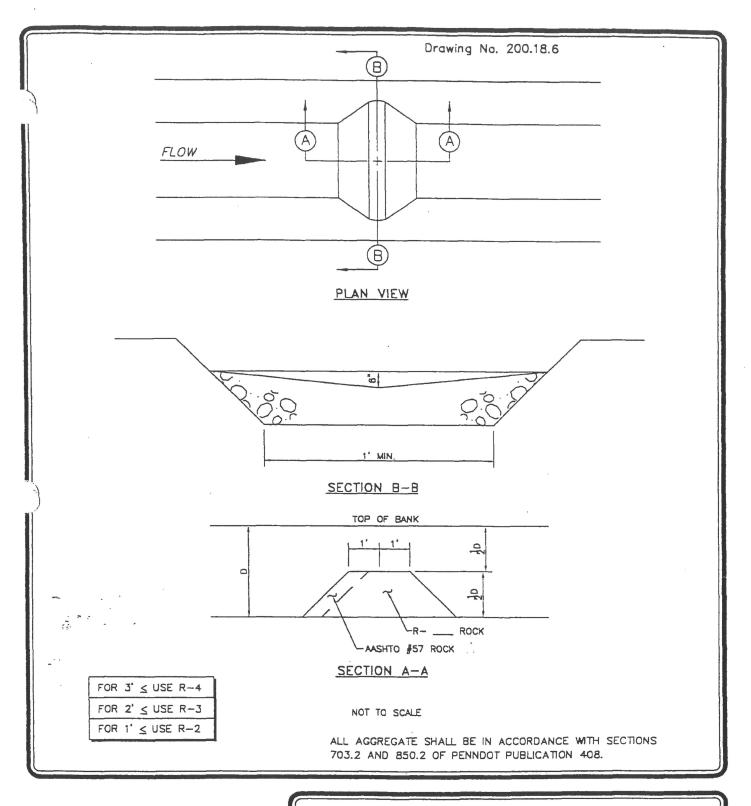


2568 Darlington Road Beaver Falls, PA 15010

SEDIMENT TRAP OUTLET BASIN DETAILS

PROCE SHOWS	DI	REVENDAS							
TC OF		DATE	NO.	DATE	NO.				
ES-05									
-4 06/14/00									
ate: 06/14/00									



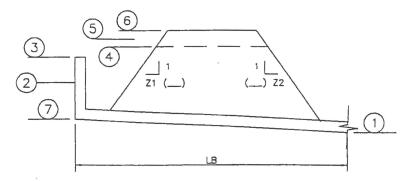
2568 Darlington Road Beaver Falls, PA 15010

ROCK FILTER DETAIL

	DETAIL							
	REVES	OKS		Chronic				
NCL.	DATE	MO.	DATE	FCOC				
				ES-06				
				D-4 06/14/00				
			1	Date: 06/14/00				

Drawing No. 200.18.7

Z1 + Z2 = 5 MIN.Z1 & Z2 = 2 MIN.



NOT TO SCALE

- (1.) DISCHARGE PIPE ELEVATION
- SEDIMENT STORAGE ELEVATION (@Sd)
- ELEVATION AT TOP OF SETTLING VOLUME (St) (CREST OF PRINCIPAL SPILLWAY)
- (4.) EMERGENCY SPILLWAY CREST ELEVATION (MIN. 0.5' ABOVE ELEVATION 3)
- (5) 2 CFS/ACRE FLOW ELEVATION
- TOP OF EMBANKMENT ELEVATION (MIN. 24" ABOVE ELEVATION 5)
- BOTTOM ELEVATION

DESIGN OF SEDIMENT BASINS SHALL FOLLOW THE GUIDELINES SET IN THE EROSION AND SEDIMENT POLLUTION CONTROL PROGRAM MANUAL

CHIPPEWA TOWNSHIP Beaver County

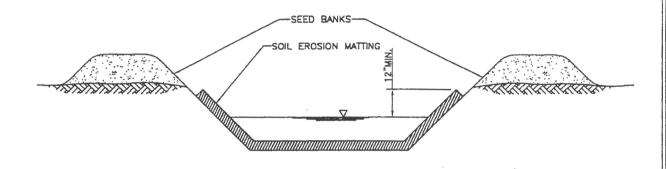
2568 Darlington Road Beaver Falls, PA 15010

SEDIMENT BASIN DETAIL

ES-07

NG	DRAWANG	REVISIONES						
ES-07]	DATE	MQ.	DATE	MO,			
E5-U/]							
]							
. 06/11/1/00]							
ate: 06/14/00] Dai							

Drawing No. 200.18.8



NOT TO SCALE

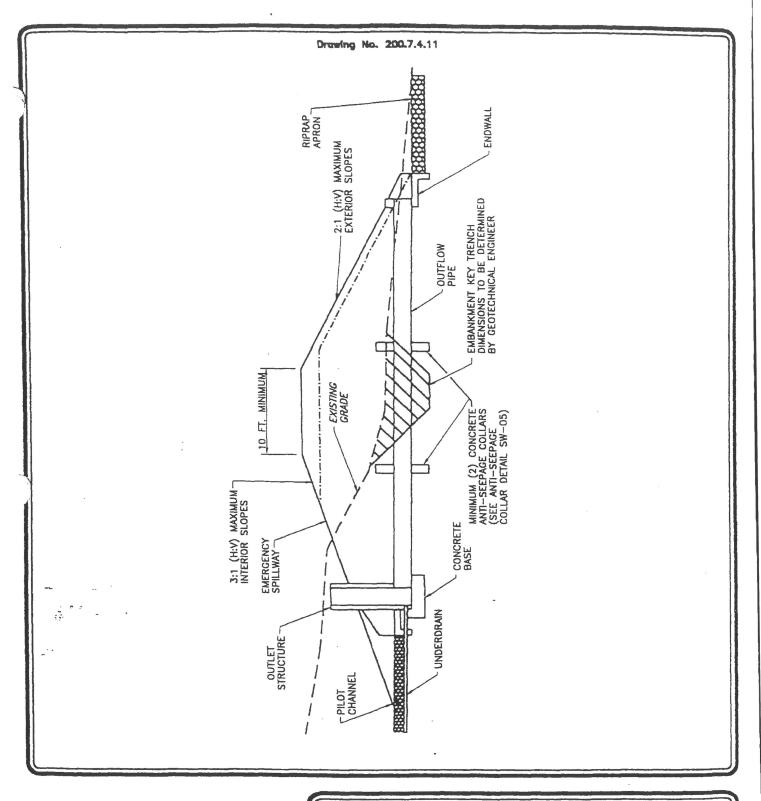
SOIL EROSION MATTING SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 806.

CHIPPEWA TOWNSHIP Beaver County

2568 Darlington Road Beaver Falls, PA 15010

SOIL EROSION MATTING SECTION DETAIL

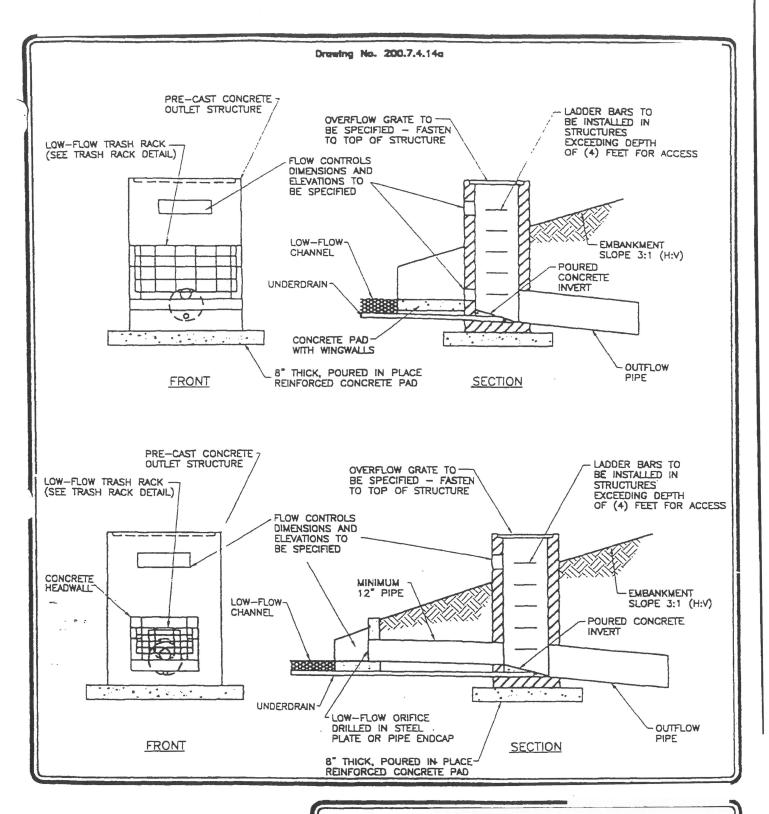
	DEMMING		ONS	REVE	
FC 00]	DATE	NO.	DATE	MCL.
ES-08]				
]				
06/14/00	n .				
e: 06/14/00	Date				-



2568 Darlington Road Beaver Falls, PA 15010

Detention Facility Embankment (Typical)

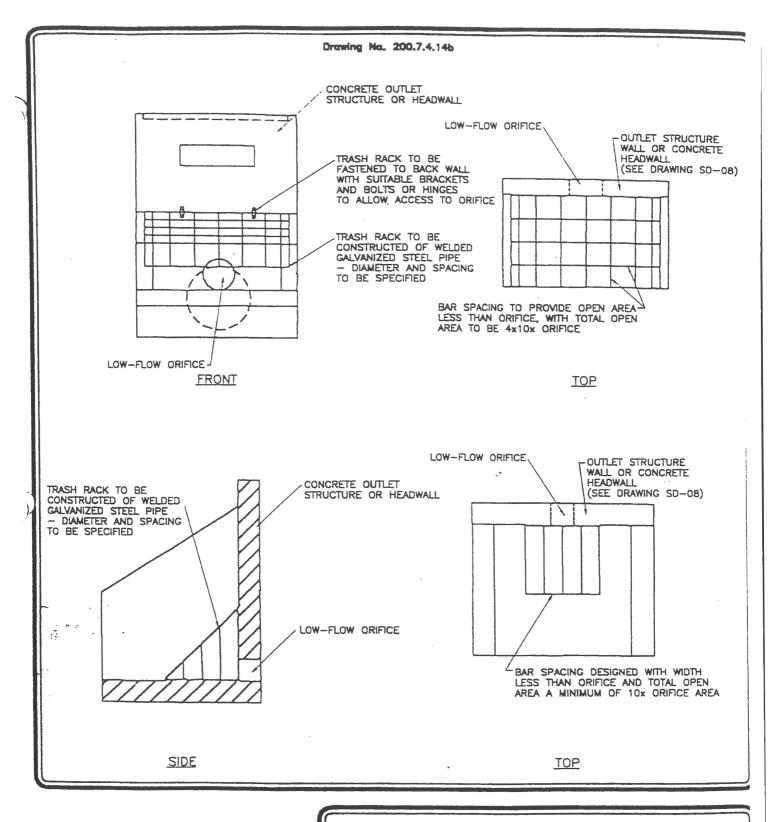
1			\ •		
		REVISIONS		DRAWING	
NO.	DATE	NO.	DATE	CV	1/01
				3 Y	V-01
				Detail	Chalon
				Date:	6/26/00



2568 Darlington Road Beaver Falls, PA 15010

Detention Facility Outlet Structures (Typical)

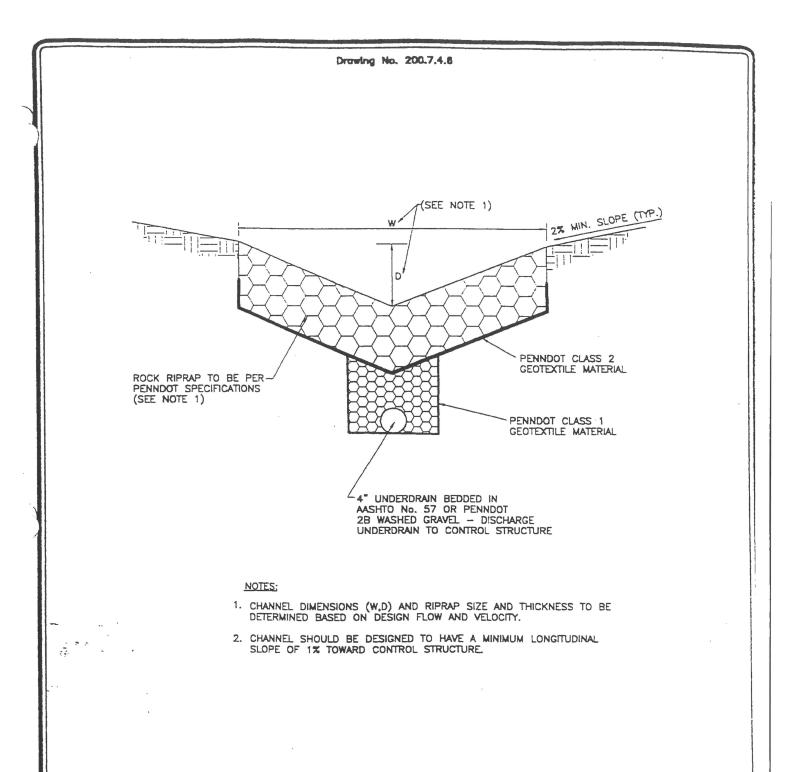
			\ J I	
	REVI:	SIONS		DRAWING
NO.	DATE	NO.	DATE	COMO
				SW-02
				- D-4- CD6/00
				Date: 6/26/00



2568 Darlington Road Beaver Falls, PA 15010

Detention Facility Low-Flow Trash Racks (Typical)

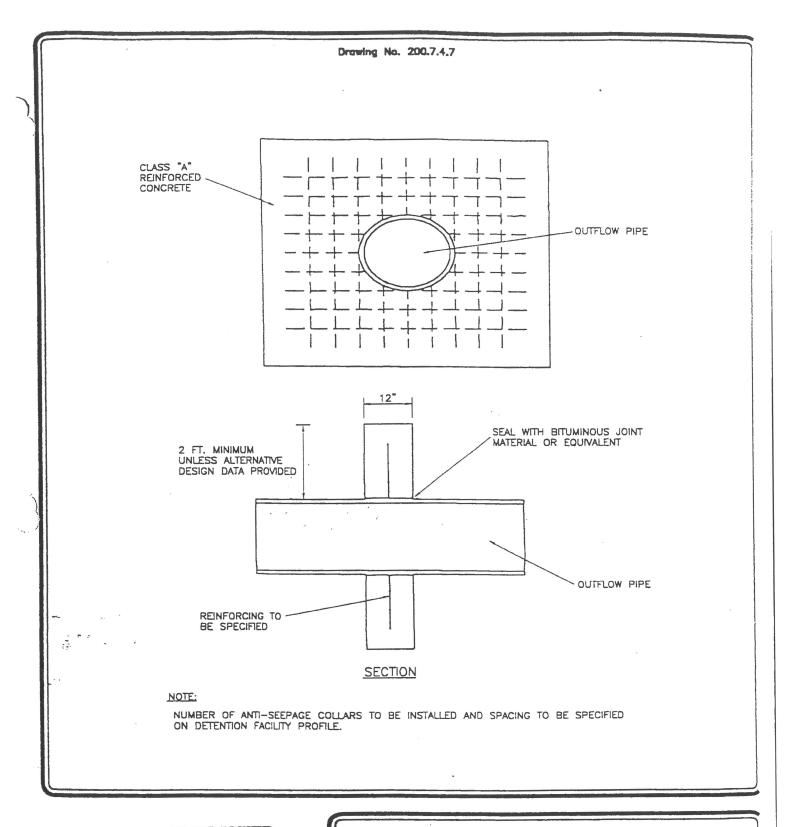
1			(-)	[
		REVISIONS		DRAWING
NO.	DATE	NO.	DATE	CMACO
				SW-03
				D-+ 6/27/00
				Date: 6/27/00



2568 Darlington Road Beaver Falls, PA 15010

Riprap Pilot Channel (Typical)

		(-	Prodi	
	F	EVISIONS		DRAWING
NO.	DATE	NO.	DATE	CVALOA
				Data: 6/27/00
				Date: 6/27/00

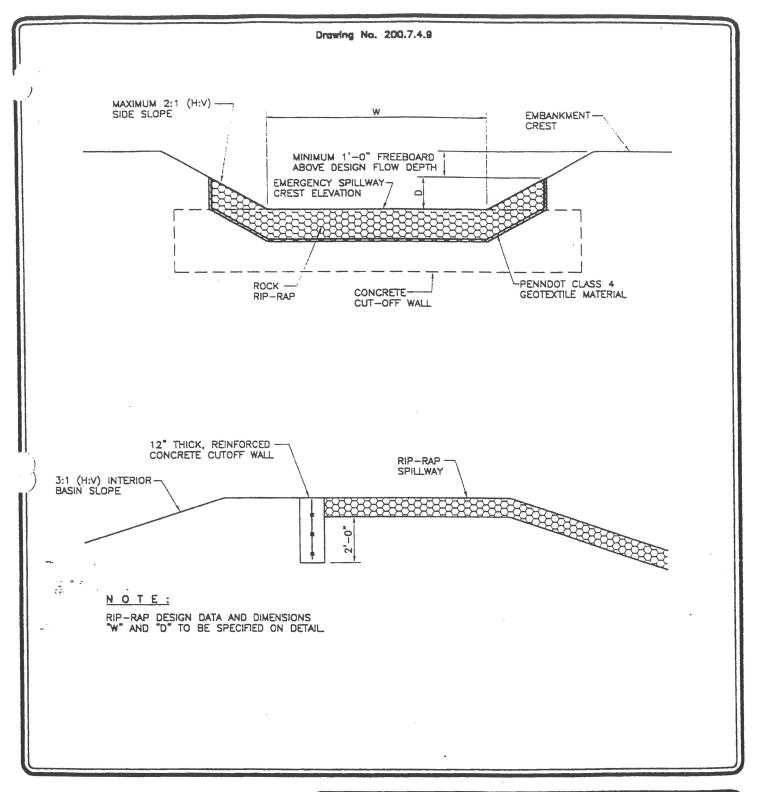


Beaver County

2568 Darlington Road Beaver Falls, PA 15010

Anti-Seepage Collars

		REVISIONS		DRAWING
NO.	DATE	NO.	DATE	SW-05
				Date: 6/27/00

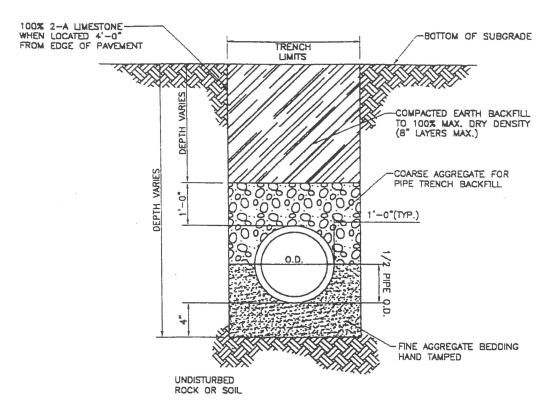


2568 Darlington Road Beaver Falls, PA 15010

Rip-Rap Emergency Spillway

		REVISIONS		DRAWING
NO.	DATE	NO.	DATE	SW-06
				_ 511-00
				Date: 6/26/00

Drawing No. 200.8



NOT TO SCALE

NOTES:

- MATERIAL OBTAINED IN TRENCH EXCAVATION SHALL NOT BE UTILIZED FOR BACKFILL. THIS REQUIREMENT SHALL APPLY TO BACKFILL IN SHOULDER AREAS AS WELL AS BACKFILL WITHIN THE CARTWAY.
- AGGREGATE MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED EIGHT INCHES AND COMPACTED TO THE FOLLOWING MINIMUM REQUIREMENTS. SHOULDER AREAS AS WELL AS BACKFILL WITHIN THE CARTWAY.

MAXIMUM DRY WEIGHT OF BACKFILL MATERIAL (AS DETERMINED IN ACCORDANCE WITH AASHTO 199)

LESS THE 95.0 LB/CU.FT. 95.0-99.9 LB./CU. FT. 100.0-109.9 LB./CU. FT. 110.0 OR MORE MAXIMUM FIELD COMPACTION REQUIREMENT (PERCENT OF MAXIMUM DRY WEIGHT)

UNSUITABLE MATERIAL 100. 100.

CHIPPEWA TOWNSHIP Beaver County

2568 Darlington Road Beaver Falls, PA 15010

TYPICAL STORM SEWER TRENCH DETAIL-WITHIN R.O.W.

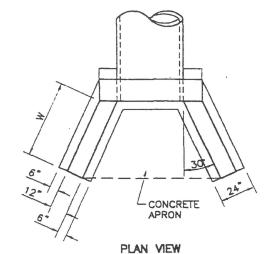
Colombia	Division		265	REVE	
6601		DATE	HO.	DATE	MQ.
SS-01					
D 4 06/12/00					
Date: 06/13/00					

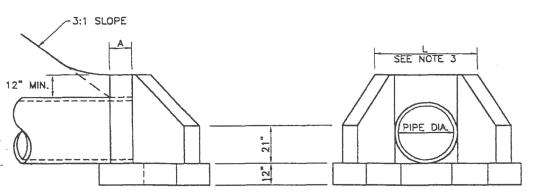
Drawing No. 200.10a

NOTES:

- 1. CONCRETE SHALL BE CLASS 'A'.
- 2. EXPOSED EDGES SHALL BE CHAMFERED ONE (1) INCH.
- 3. ADD 1'-0" TO DIMENSION 'L' WHEN ORIFICE PLATE IS TO BE PLACED ON HEADWALL.

PIPE DIA.	L*	W	A
15"	4.0"	4.0'	12"
18"	4.0	4.0'	12"
24°	4.5'	4.25	12"
36"	4.5'	4.25	12"
48"	5.0	4.25	12"





SIDE ELEVATION VIEW

FRONT ELEVATION VIEW

Reference RC-31, PennDOT Pub. 72

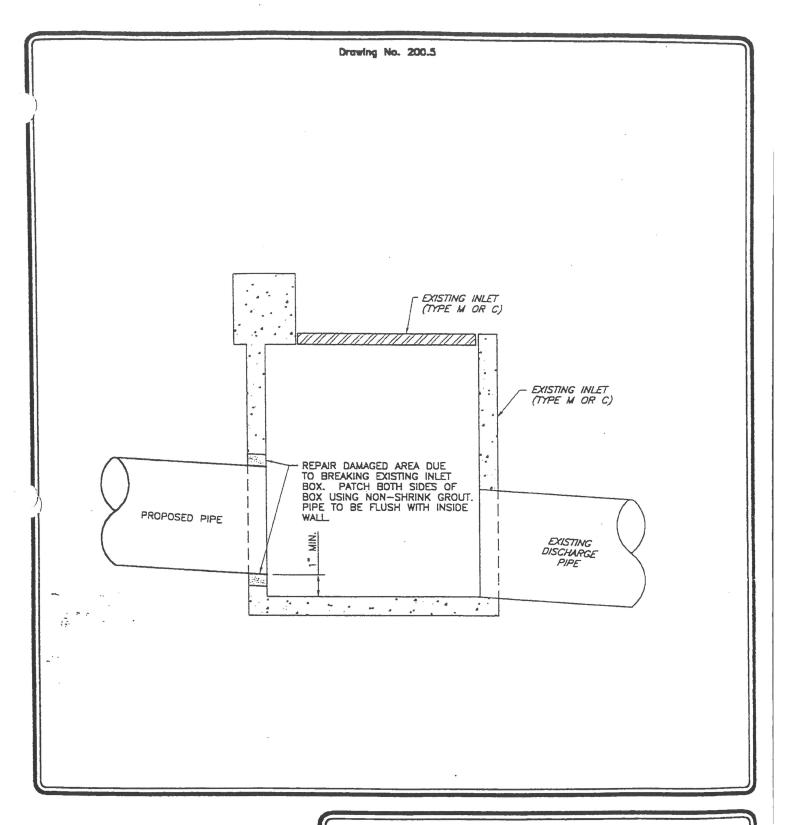
CHIPPEWA TOWNSHIP

Beaver County

2568 Darlington Road Beaver Falls, PA 15010

Standard Type D-W Endwall/Headwall Detail

		DRAWING		
NO.	DATE	NG.	DATE	SS-02
				Date: 6/26/00

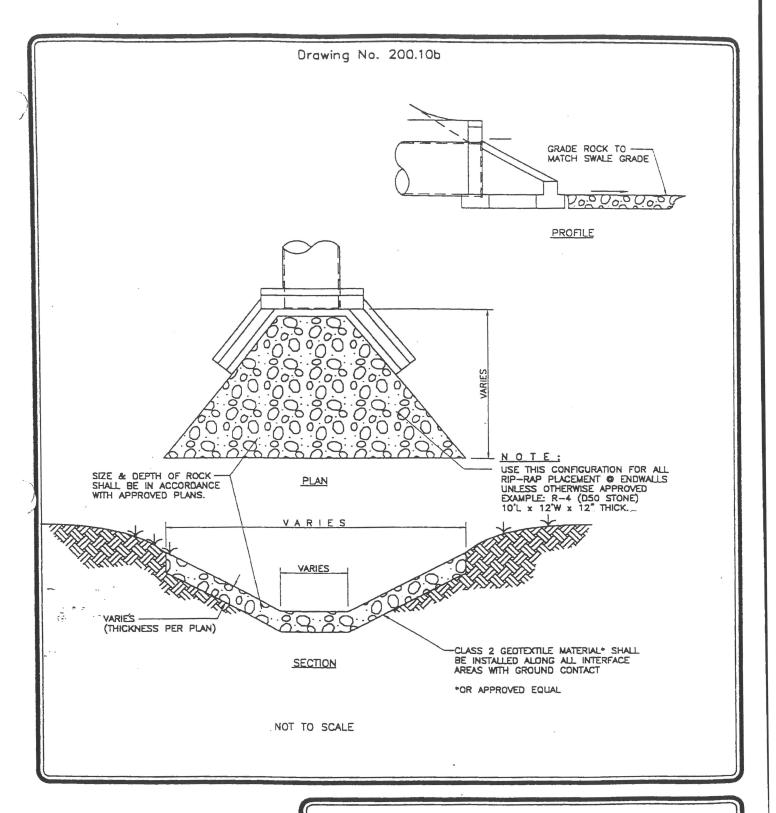


2568 Darlington Road

Beaver Falls, PA 15010

Inlet Connections Detail

		REVISIONS DRAWING			
NO.	DATE	NC.	DATE	SS-03	
				Deta: 6/26/00	
				Date: 6/26/0	

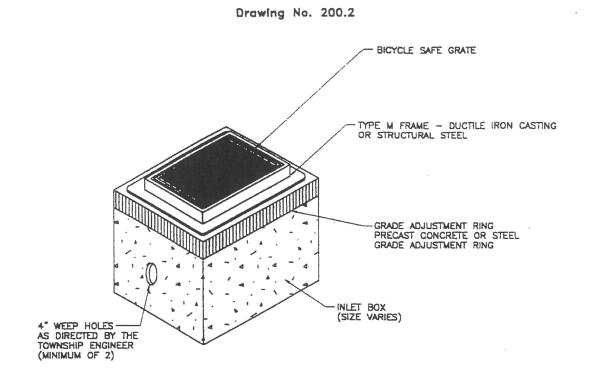


Beaver County

2568 Darlington Road Beaver Falls, PA 15010

RIP-RAP DETAIL STORM SEWER OUTFALL

	Distriction		CHES.	REVO	
CCOA]	DATE	HQ.	DATE	MCL
SS-04					
06/12/00	D				
e: 06/13/00	Date				



NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 605 AND STANDARDS FOR ROADWAY CONSTRUCTION, RC-34. CONTRACTOR SHALL VERIFY INLET BOX SIZING BASED ON PIPE SIZES AND ALIGNMENT PRIOR TO ORDERING PRECAST STRUCTURES.
- 2. ALL DRAINAGE STRUCTURES SHALL HAVE POURED-IN-PLACE CONCRETE CHANNEL BOTTOMS.

NOT TO SCALE

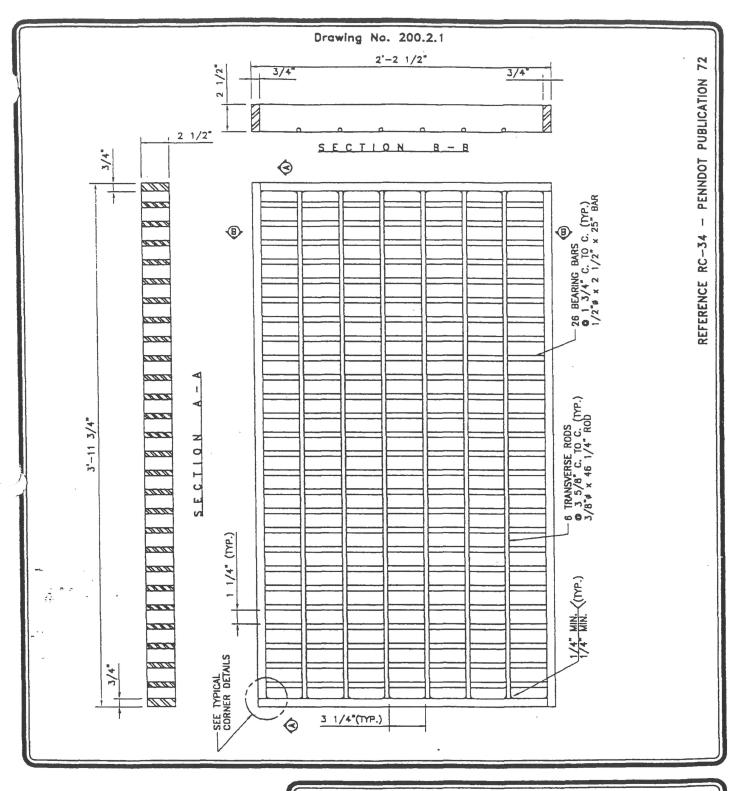
REFERENCE RC-34 - PENNDOT PUBLICATION 72

CHIPPEWA TOWNSHIP

Beaver County

2568 Darlington Road Beaver Falls, PA 15010

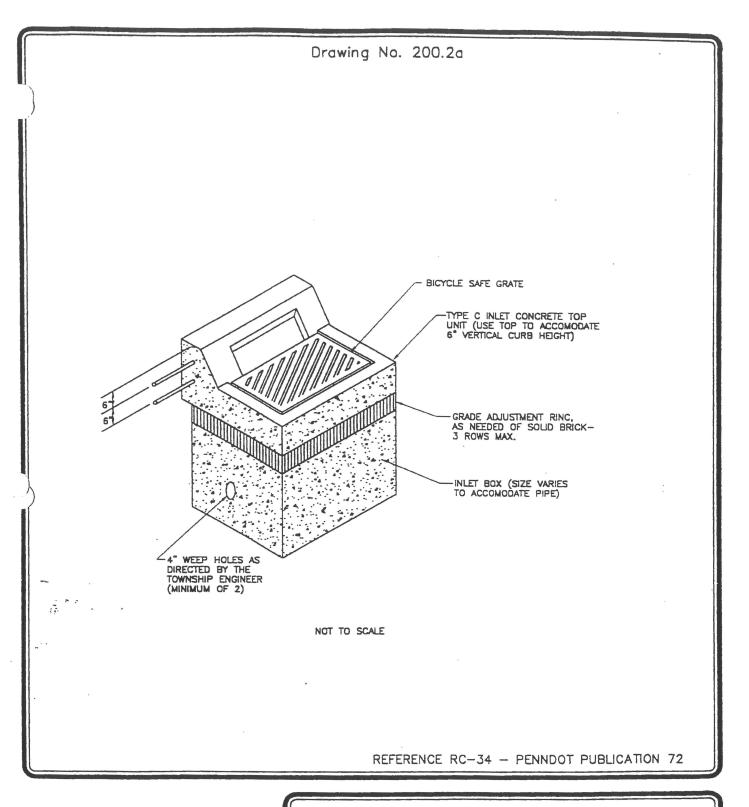
TYPE "M" INLET DETAIL REVISIONS NO. DATE NO. DATE SS-05 Date: 06/13/00



2568 Darlington Road Beaver Falls, PA 15010

STRUCTURAL STEEL BICYCLE SAFE GRATE

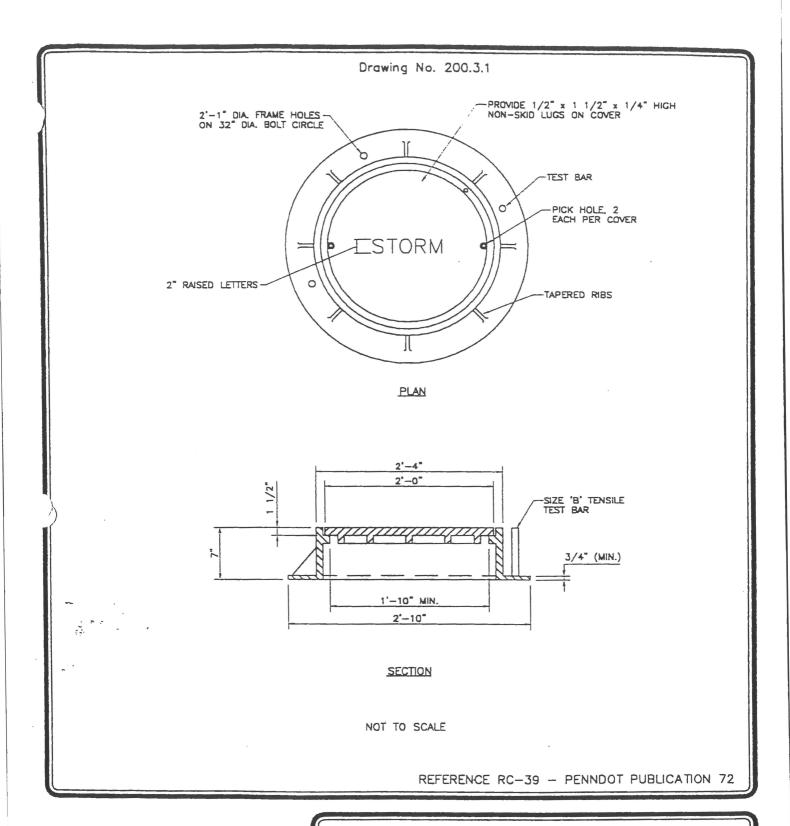
DAMING	NOVERNICE DANNING			
CCOED	SATE	NG.	DATE	100.
SS-05B				
1				
D-4 06/12/00				
Date: 06/13/00				



2568 Darlington Road Beaver Falls, PA 15010

TYPE "C" INLET DETAIL

	QPMWPQ		REVISIONS			
CCOC]	DATE	MQ.	DALE	NO.	
SS-06]					
]					
06/12/00	7					
e: 06/13/00	Date					



2568 Darlington Road Beaver Falls, PA 15010

STANDARD MANHOLE FRAME & COVER

DEMENDE	REVERSE					
66.07	DATE		100,	DATE	NG.	
SS-07						
Date: 06/13/00						

Drawing No. 200.3 -2 FT. DIA. CAST IRON FRAME AND COVER (REFER TO FRAME AND COVER DETAIL) GROUT -FINISHED PAVEMENT GRADE GRADE RINGS AS REQUIRED PRECAST 48" ECCENTRIC CONE SECTION SEAL ALL JOINTS WITH "RAMNEK" OR EQUIVALENT 48" RISER SECTION-AS REQUIRED STORM PIPE SIZE & ALIGNMENT PER PLAN CHANNEL CONC. SHALL-BE 3000 P.S.I. AT 28 DAYS 6" MIN. NOT TO SCALE REFERENCE RC-39 - PENNDOT PUBLICATION 72

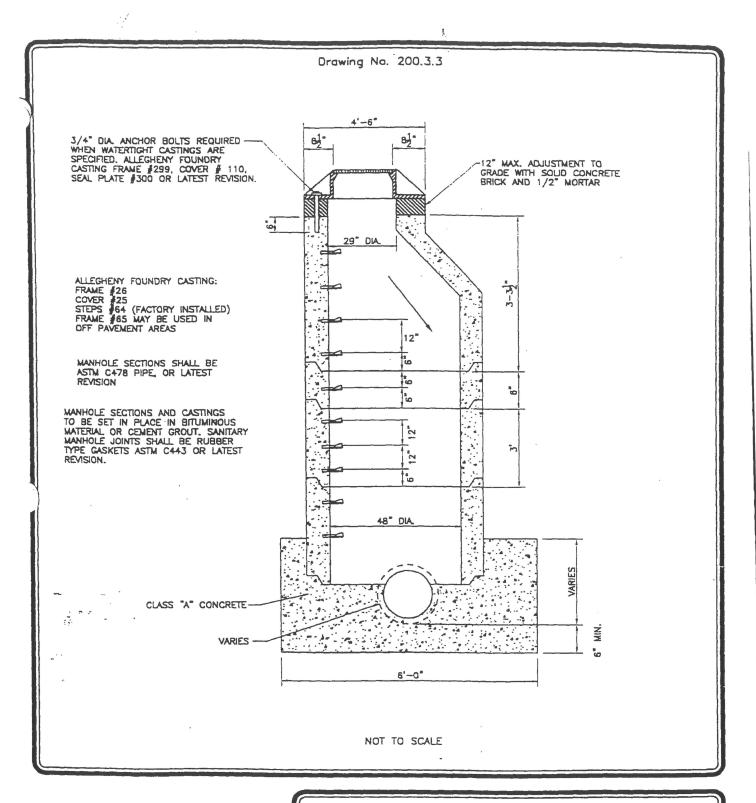
CHIPPEWA TOWNSHIP

Beaver County

2568 Darlington Road Beaver Falls, PA 15010

STORM MANHOLE DETAIL (TYPICAL SECTION)

				,	
	REVER	CONTRACT			
MO.	CATE	MCL,	DIGE	66.00	
				SS-08	
				D . 06/12/00	
				Date: 06/13/00	
	the state of the s				

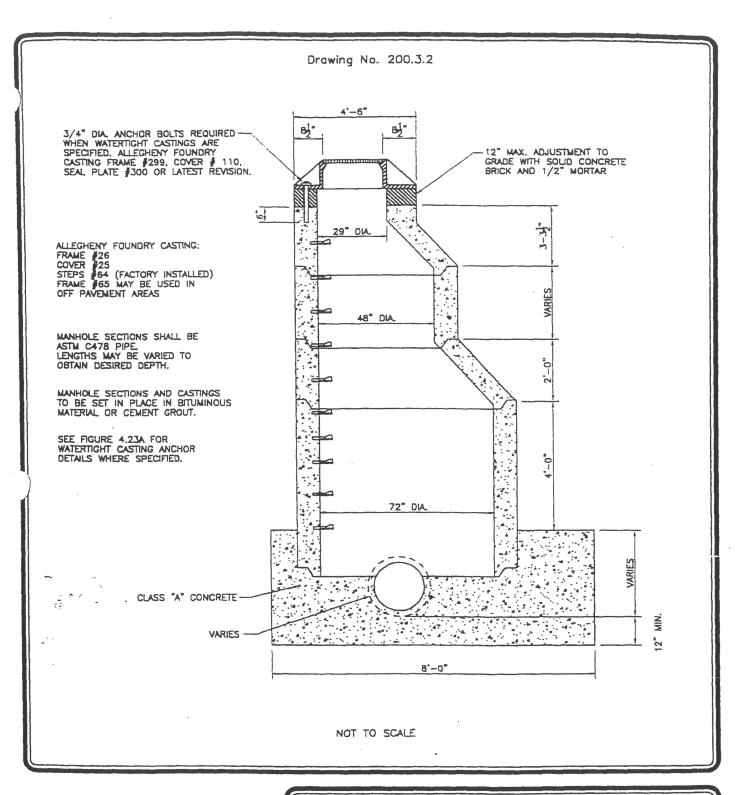


Beaver County

2568 Darlington Road Beaver Falls, PA 15010

PRE-CAST CONCRETE MANHOLE PIPES UNDER 48" DIA

	REVERDIS			
160.	CATE	MQ.	DATE	66.00
				SS-09
				D . 06/10/00
				Date: 06/13/00

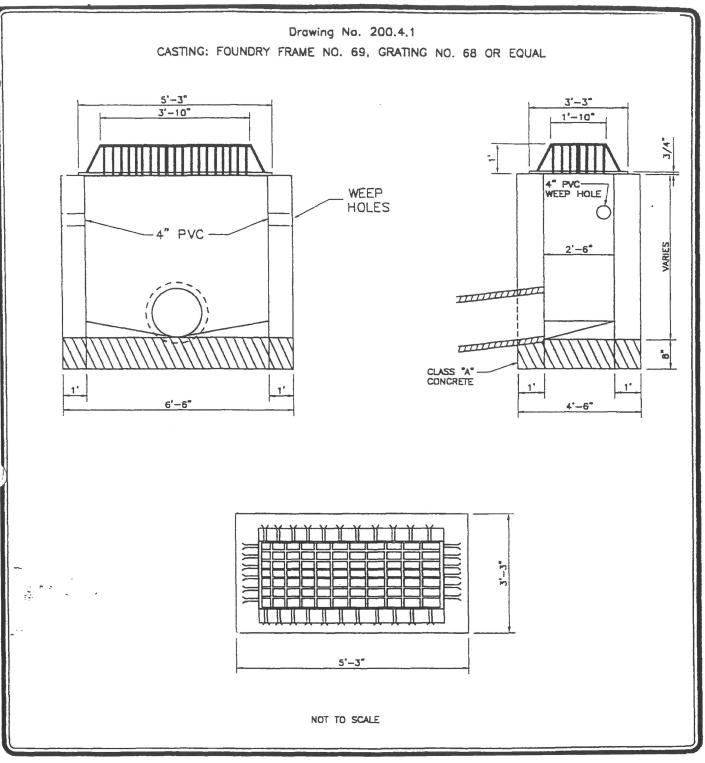


Beaver County

2568 Darlington Road Beaver Falls, PA 15010

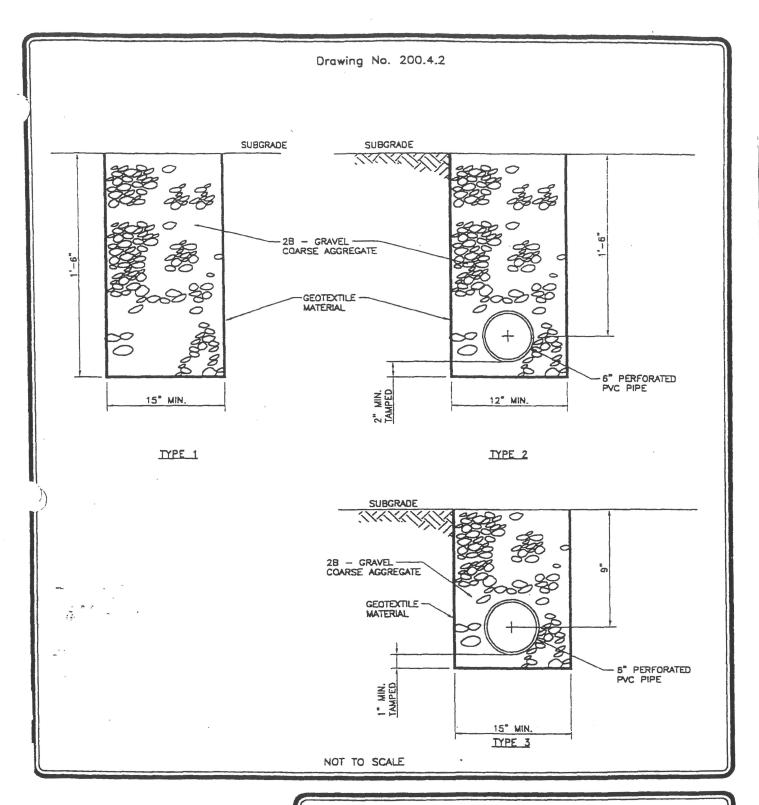
PRE-CAST CONCRETE MANHOLE PIPES OVER 48" DIA.

	REVERDIG			2 Personal Company Com
NO.	DATE	HCL.	DALE	6616
				SS-10
				D
				Date: 06/13/00



2568 Darlington Road Beaver Falls, PA 15010





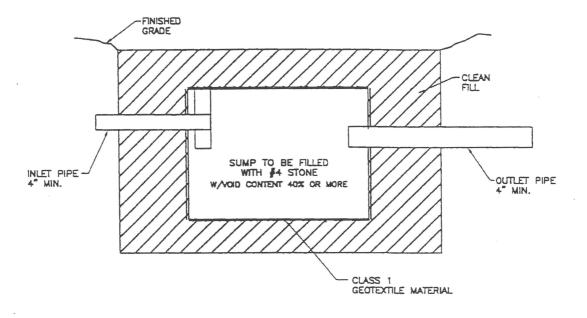
2568 Darlington Road Beaver Falls, PA 15010

SPECIAL UNDERDRAINS

· REVERDIES				Cheminic
160,	CACHE	, MCL	3740	6610
				SS-12
				D-4 06/12/00
			1	Date: 06/13/00
The state of the s				

Drawing No. 200.7.6.2

ALL SUMPS MINIMUM 10 FEET FROM HOUSE



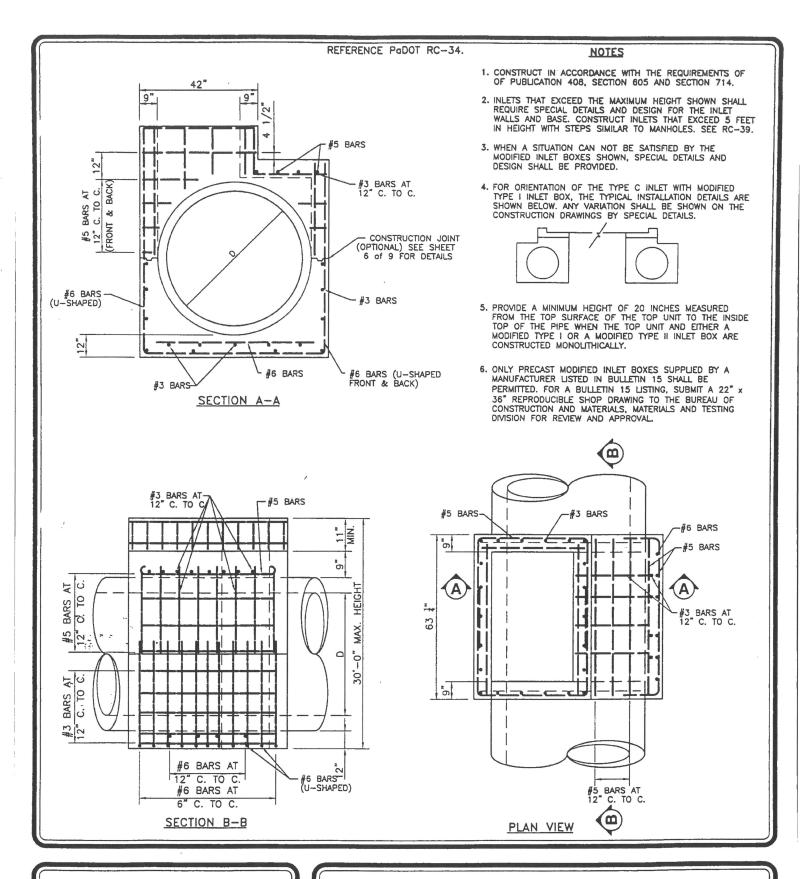
NOT TO SCALE

CHIPPEWA TOWNSHIP Beaver County

2568 Darlington Road Beaver Falls, PA 15010

STORM WATER CONTAINMENT SYSTEM

		REVO	DAG	Devenue		
ĺ	MC.	DATE	100,	DATE	CC 12	
I					SS-13	
Ì						
I					Date: 06/13/00	
ı		1	1	I	Date. 00/13/00	



Beaver County, PA

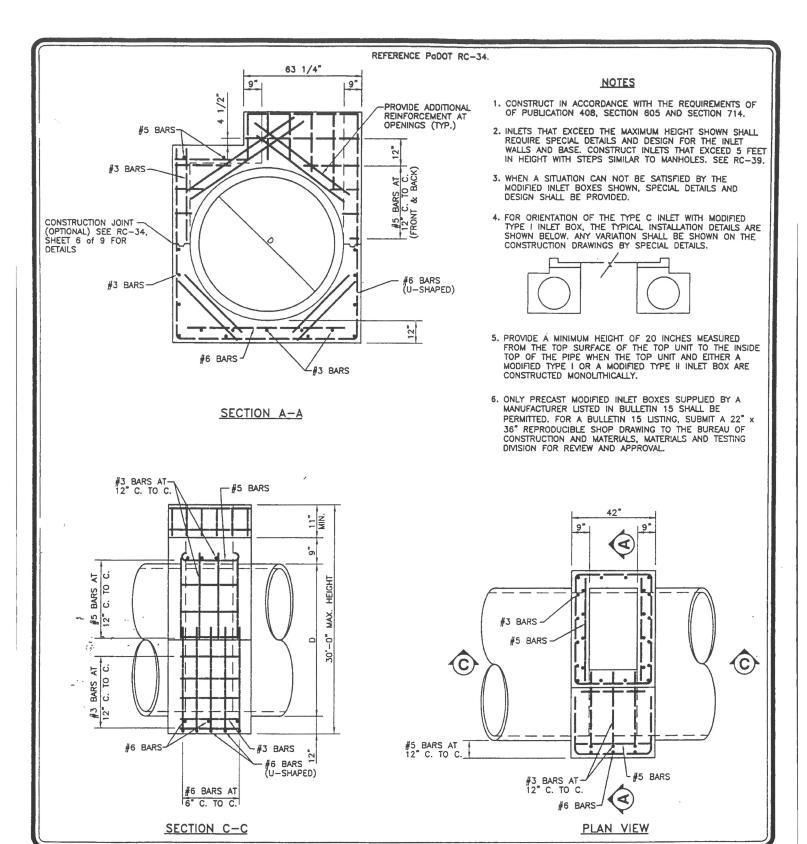
2568 Darlington Road Beaver Falls, Pennsylvania 15010

Inlet Box Modified Type I

DRA		REVISIONS					
	DATE	NO.	DATE	NO.			
_							
L							

SS14

Date: 10/02/02



Beaver County, PA

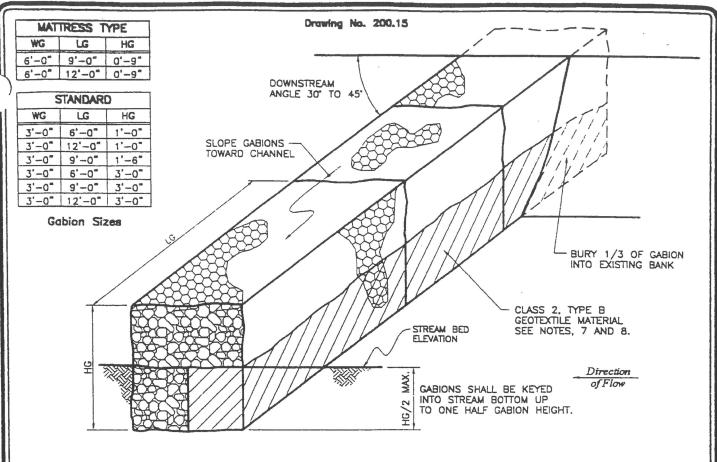
2568 Darlington Road Beaver Falls, Pennsylvania 15010

Inlet Box Modified Type II

DRAWI		REVISIONS				
	DATE	NO.	DATE	NO.		
_						
Da						

SS15

Date: 10/02/02



NOTES:

- 1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, SECTION 626, GABIONS.
- 2. TYPE A GABIONS SHALL CONSIST OF WIRE-MESH BASKETS FILLED BY HAND PLACMENET OF COARSE AGGREGATE, AT LEAST ALONG THE EXPOSED SURFACES, FOR A UNIFORM APPEARANCE.
- 3. TYPE B GABIONS SHALL CONSIST OF WIRE-MESH BASKETS FILLED BY HAND PLACEMENT OR SMALL POWER EQUIPMENT PLACEMENT OF COARSE AGGREGATE.
- 47- CORROSION RESISTANT TYPE A AND TYPE B GABIONS SHALL BE THE SAME AS TYPE A AND TYPE B GABIONS EXCEPT THAT THE WIRE MESH SHALL BE SHEATHED IN POLYMINYL CHLORIDE PLASTIC.
- 5. THE APRON OR TOE WALL IS REQUIRED WHERE THE SLOPE WALL IS INSTALLED ADJACENT TO WATER. THE APRON SHOULD BE APPROXIMATELY TWO TIMES AS WIDE AS THE ANTICIPATED DEPTH OF SCOUR AND THE TOE WALL HEIGHT SHOULD BE AT LEAST EQUAL TO THE ANTICIPATED DEPTH OF SCOUR.
- 6. WHEN GABIONS ARE PLACED ON A 1-1/2:1 SIDE SLOPE OR STEEPER, DRIVE HARDWOOD STAKES THROUGH THE GABIONS, ALONG THE TOP EDGE, TO ANCHOR THE INSTALLATION. MINIMUM EMBEDMENT OF STAKES BELOW GABION BOTTOM SHALL BE 18 INCHES.
- 7. PROVIDE GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 212 AND SECTION 735.
- 8. INSTALL GEOTEXTILE MATERIAL ALONG ALL INTERFACE AREAS WITH GROUND CONTACT.

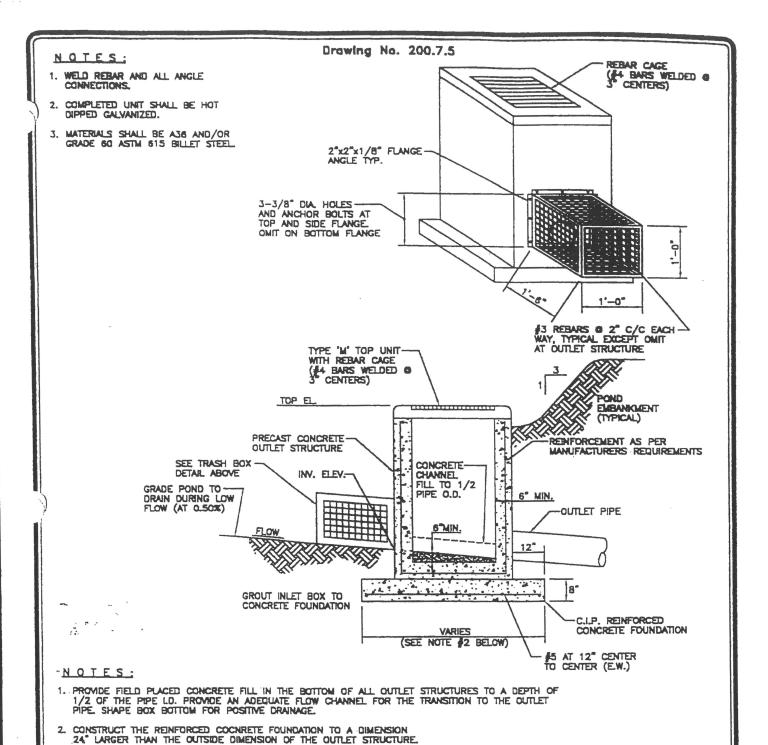
Reference RC-43, PennDOT Pub. 72

CHIPPEWA TOWNSHIP Beaver County

2568 Darlington Road Beaver Falls, PA 15010

Gabions Used for Channel Deflector

		DRAWING		
NO.	DATE	NO.	DATE	SD-04
				Date: 6/26/00



3. TRASH BOX TO BE PROVIDED AT INFLOW OPENING OF THE OUTLET STRUCTURE.

2568 Darlington Road Beaver Falls, PA 15010

OUTLET STRUCTURE DETAIL SD-08 Date: 06/14/00

NOT TO SCALE