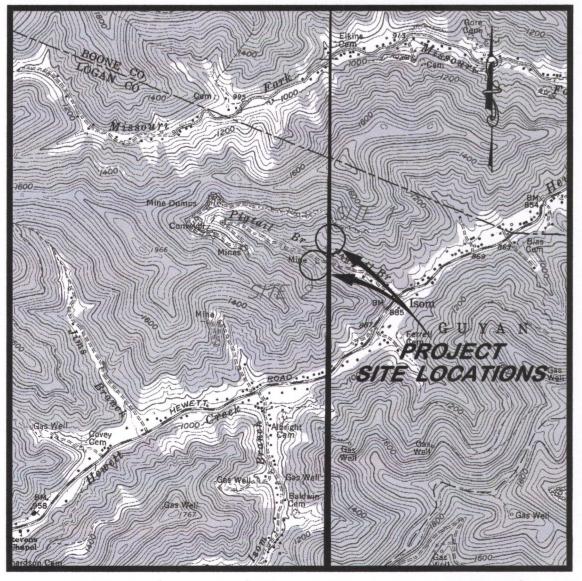




VICINITY MAP



USGS 7.5' QUAD (HENLAWSON and CLOTHIER)

SHEET NO.	DESCRIPTION					
2	EXISTING CONDITIONS AND TAX MAP OVERLAY					
3	RECLAMATION PLAN AND SEDIMENT CONTROL PLAN					
4	PROFILE AND CROSS SECTIONS CHANNEL "A" AND BASELINE 1 REGRADE					
5	SEDIMENT CONTROL TYPICAL DETAILS					
6	TYPICAL DETAILS					
7	TYPICAL DETAILS (2)					
8	TYPICAL DETAILS (3)					
9	PORTAL CROSS SECTIONS					



west virginia department of environmental protection

EARL RAY TOMBLIN, GOVERNOR RANDY C. HUFFMAN, CABINET SECRETARY OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

NEAR ISOM LOGAN COUNTY, WEST VIRGINIA

PRO STATE	7 OF
allen	7. Wow APPROVEL

DATE

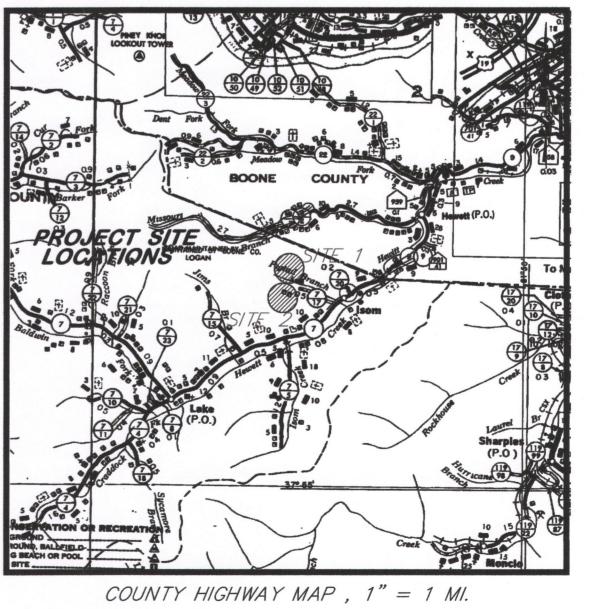
ITEM						
NO.	Qty	Unit	DESCRIPTION			
1.0	1	LS	Mobilization and Demobilization (Limited to 109			
2.0	1	LS	Construction Layout (Limited to 5% of Total Bi			
3.0	1	LS	Quality Control (Limited to 3% of Total Bid)			
4.1	1	LS	Site Preparation (Limited to 10% of Total Bid)			
4.2	400	TN	Access Road Stone			
5.1	300	LF	Silt Fence Sediment Control			
5.2	25	TN	Stablilized Construction Entrance (1 @ 70 LF x 12			
5.3	10	EA	Rock Check Dam			
6.0	1	LS	Revegetation			
7.1	450	LF	10' Rock Riprap Vee Channel			
7.2	90	LF	6' Grouted Riprap Flat Bottom Channel			
7.3	1	EA	Riprap "Vee" Channel Road Crossing			
7.4	200	LF	4' x 4' Underdrain			
7.5	200	LF	Underdrain Conveyance Pipe			
9.1	8	EA	Wet/Modified Mine Seal			
9.2	275	LF	Mine Seal Conveyance Pipe			
9.3	50	EA	Soda Ash Briquettes (50 LB Bag)			

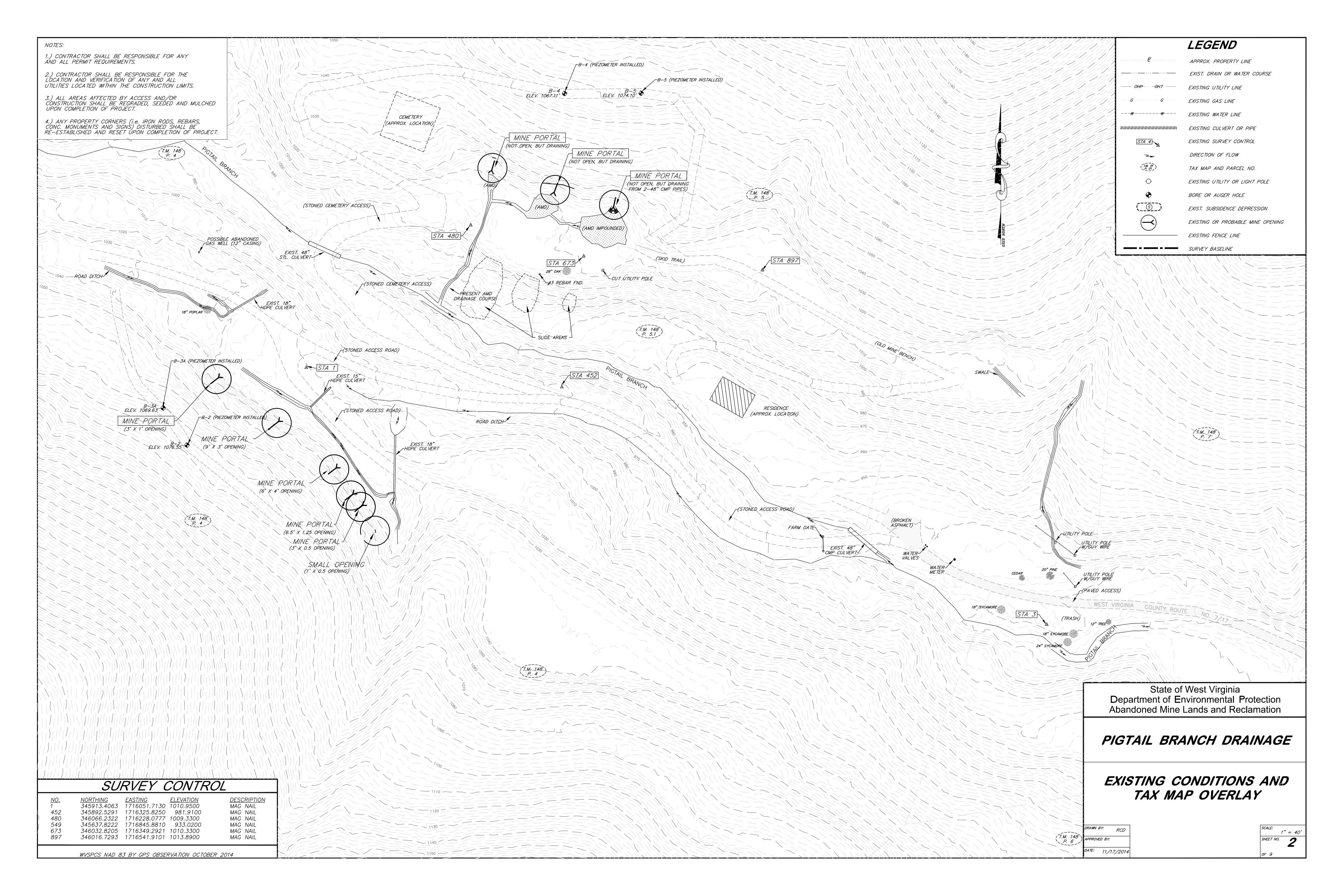
BID SCHEDULE

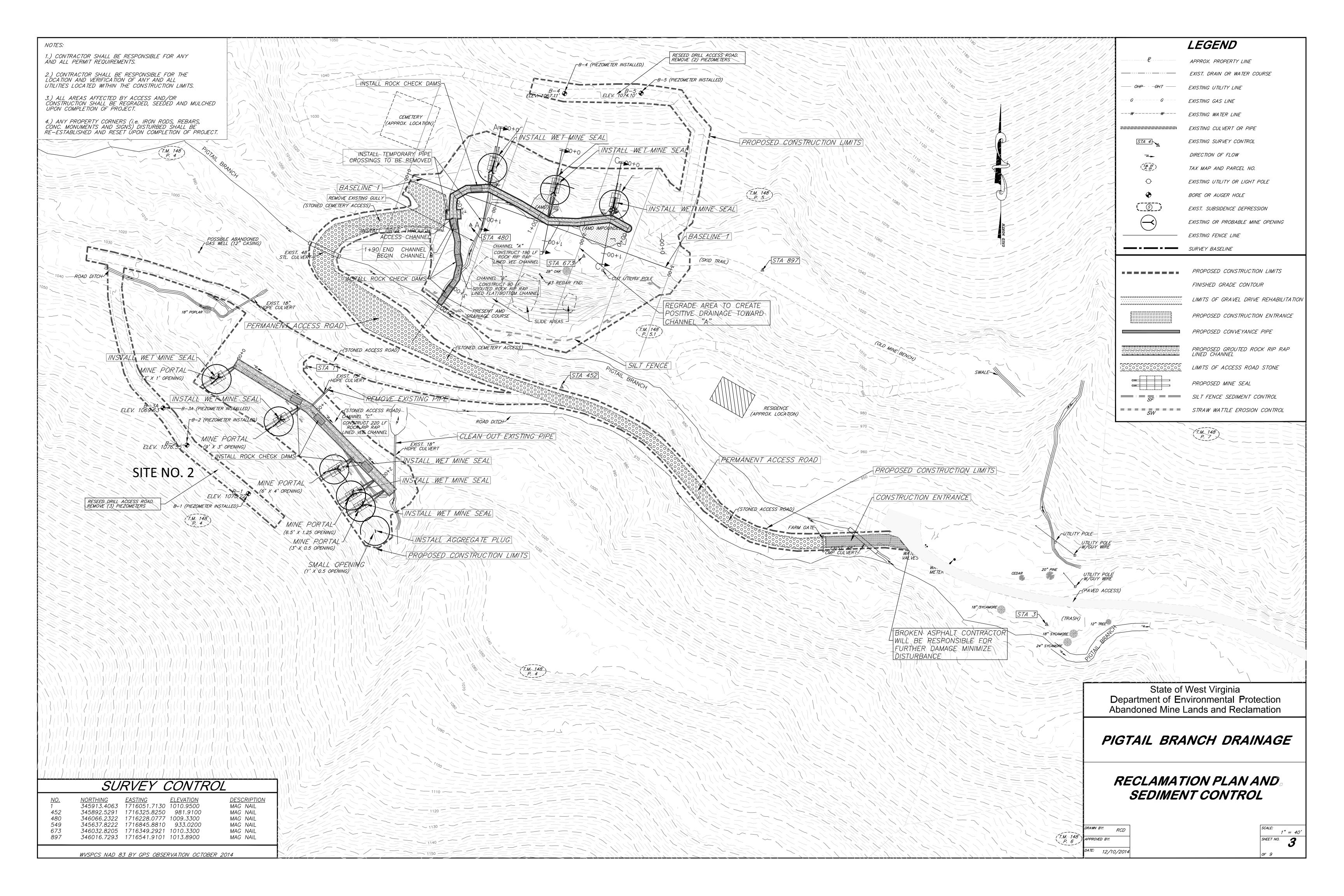


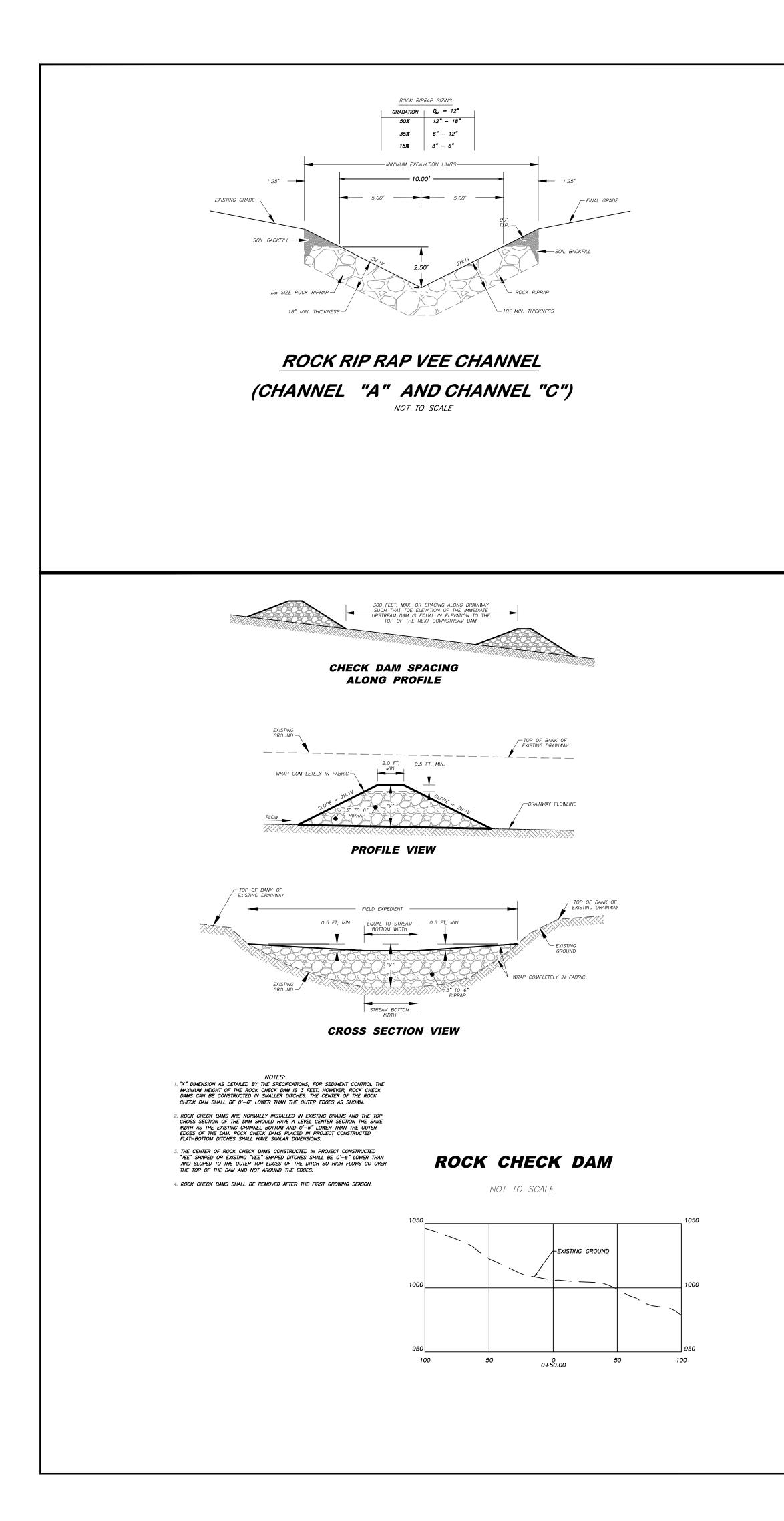
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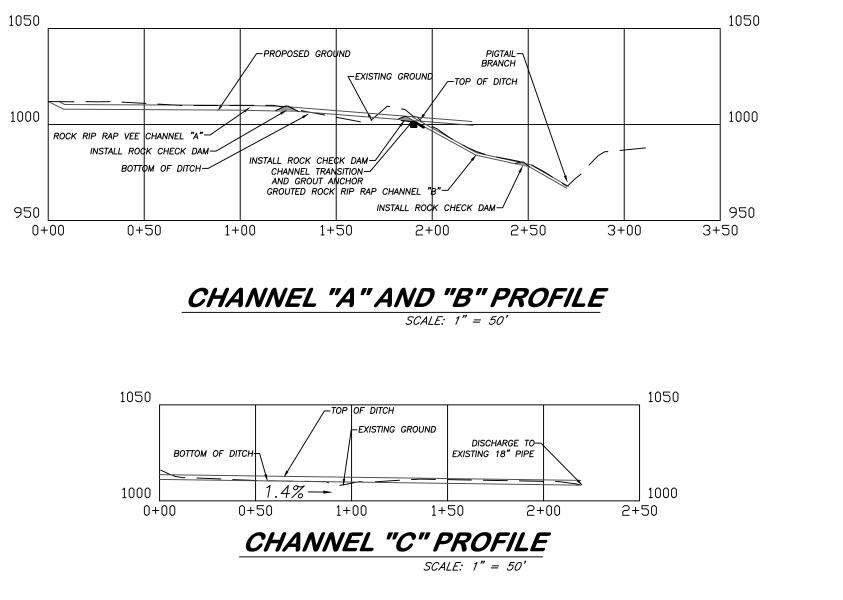
LOCATION MAP

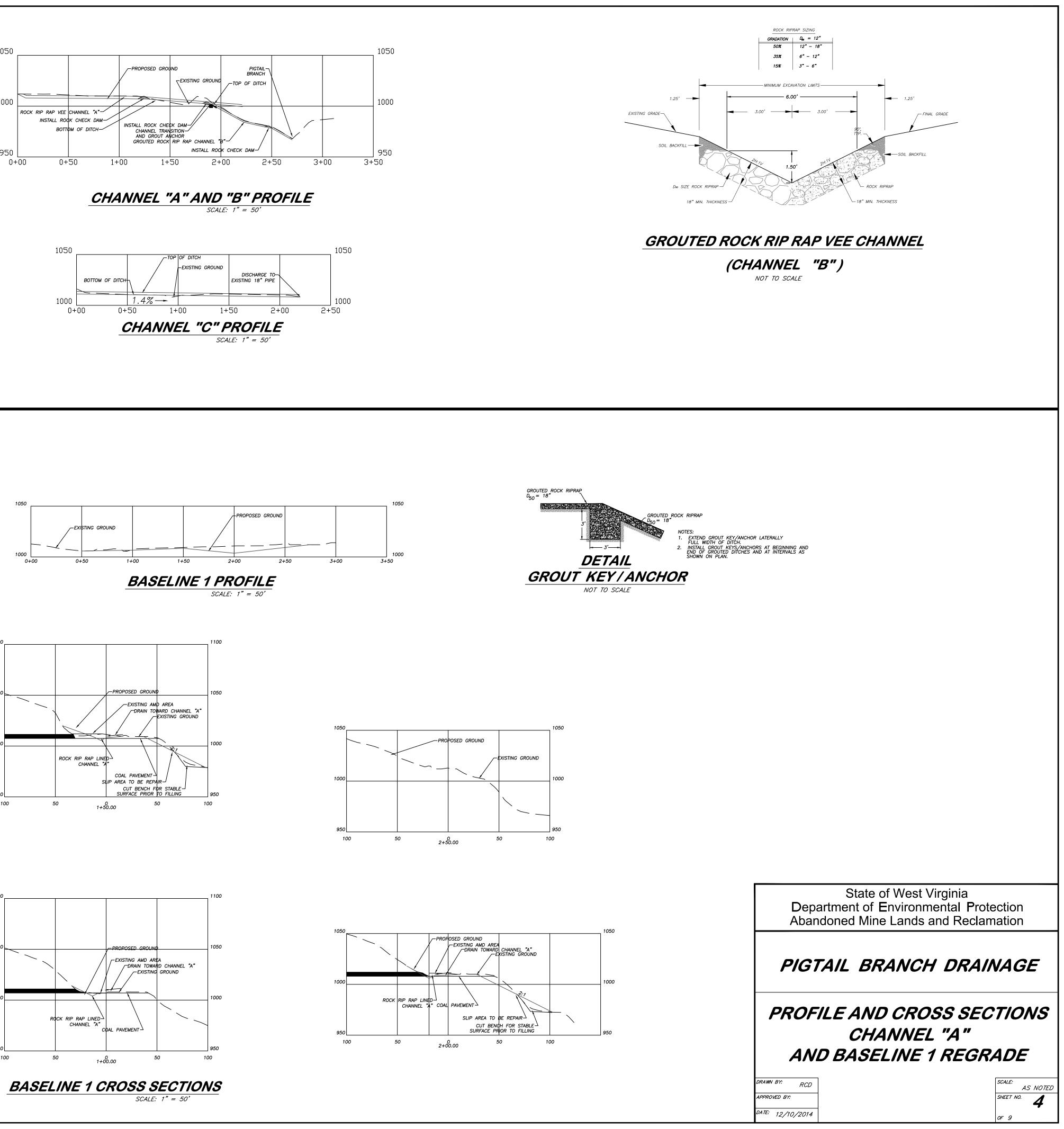


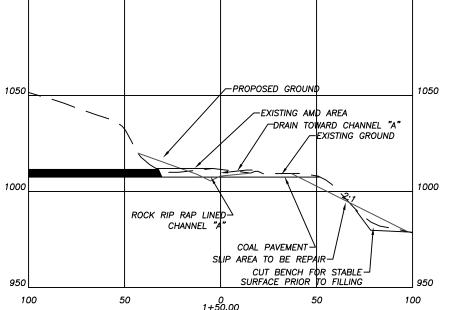


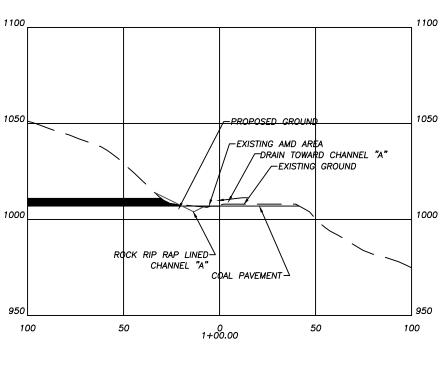


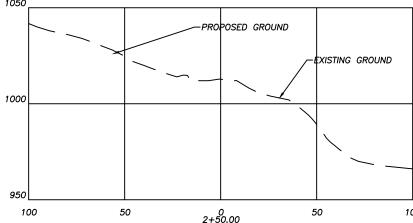


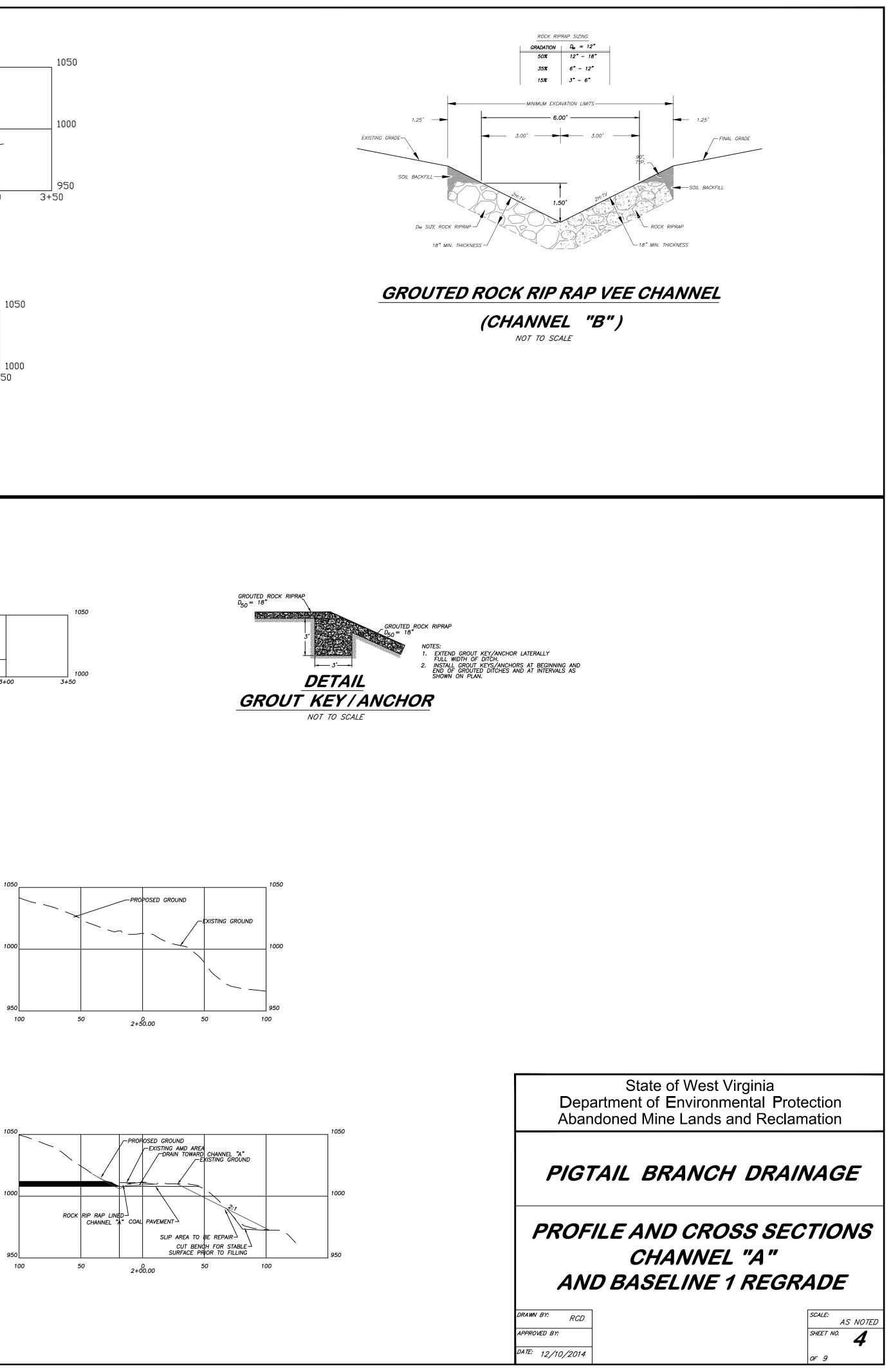


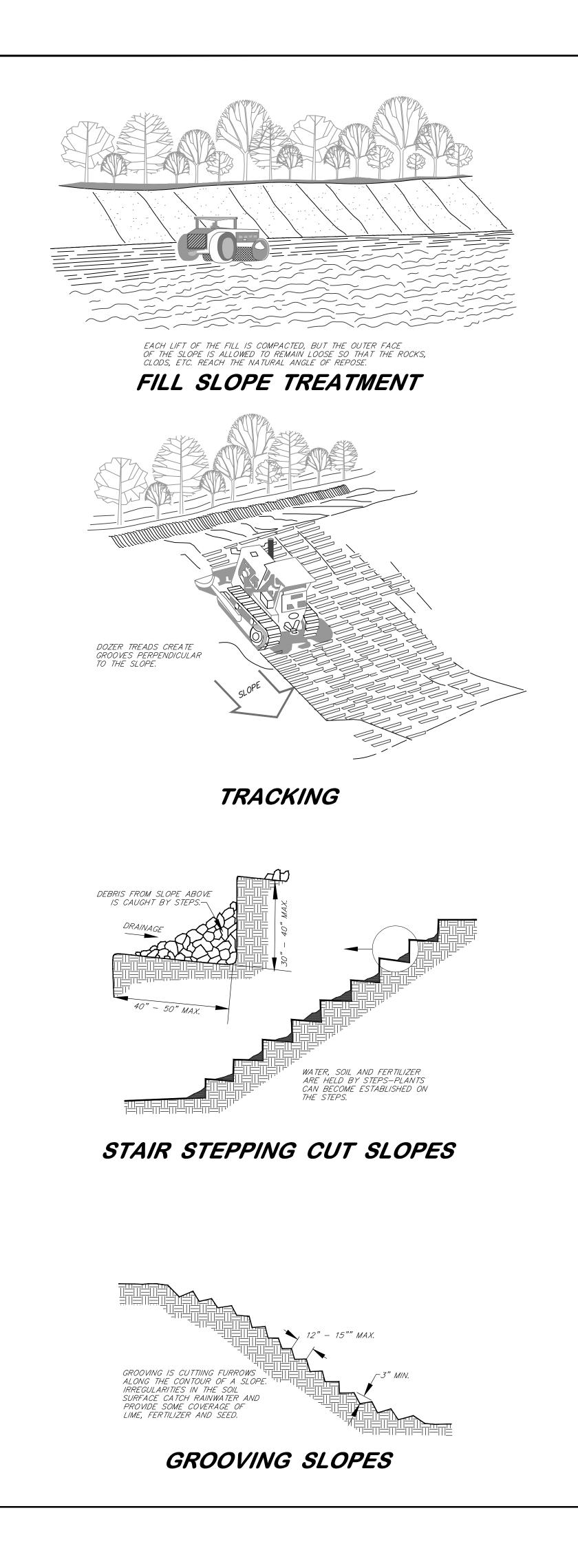












1 1/2" X 1 1/2" (MIN.) X 48" HARDWOOD POST.

SILT_FENCE FILTER_FABRIC----►

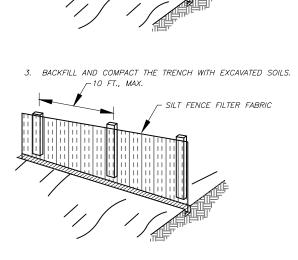
FLOW —

4", MIN. —

XXX

EMBED FILTER FABRIC MIN. 4" INTO GROUND

SILT FENCE



1. SET POSTS ALONG CONTOUR OF THE LAND AND EXCAVATE TRENCH UPSLOPE ALONG THE LINE OF POSTS.

10 FT. MAX.

_ SILT FENCE FILTER FABRIC

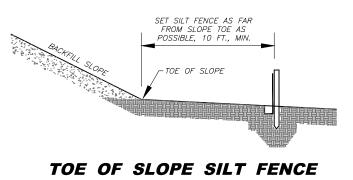
CAVATED TRENCH

4" X 4"

1/2" X 1 1/2" X 48" HARDWOOD POST.

2. ATTACH THE FILTER FABRIC TO THE FENCE POSTS AND EXTEND IT INTO THE DITCH.

-10 FT., MAX.



LOCATION

SIDE VIEW

2. FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE SUPPORT POSTS USING ONE INCH, MINIMUM, LONG HEAVY-DUTY WIRE STAPLES OR TIE WIRES WITH EIGHT INCHES, MINIMUM, OF FABRIC EXTENDED INTO THE TRENCH. DO NOT STAPLE FABRIC TO TREES. 3. COMPACTED SOIL BACKFILL SHALL BE PLACED IN THE 4" BY 4" TRENCH ATOP THE EXTENDED FABRIC. 4. POSTS SHALL BE CONSTRUCTED OF 1 1/2" X 1 1/2" (MIN.) HARDWOOD OR 2" x 4" PINE BY 48" LONG. 5. FILTER FABRIC SHALL BE NON-WOVEN "MIRAFI 100X", "EXXON GTF 180" OR EQUAL. 6. APPROVED PREFABRICATED UNITS INCLUDE "GEOFAB", "ENVIROFENCE", OR APPROVED EQUAL. 7. THE MAXIMUM RUN OF SLOPE ABOVE A ROW OF SILT FENCE IS 110 FEET. SILT FENCE FILTER FABRIC -1" HEAVY DUTY WIRE STAPLE ____ROLL_END

SILT FENCE NOTES: 1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO ALIGNMENT LENGTH TO AVOID JOINTS. WHERE JOINTS ARE UNAVOIDABLE, THE FABRIC SHALL BE SPLICED TOGETHER AT A SUPPORT POST BY TWISTING THE POST OF EACH RUN AROUND EACH OTHER.

1 1/2" X 1 1/2" X 48" HARDWOOD POST.-— 1 1/2" X 1 1/2" X 48" HARDWOOD POST. SILT FENCE ROLL END -WIRE STAPLE

END LAP TOP VIEW

END DETAIL

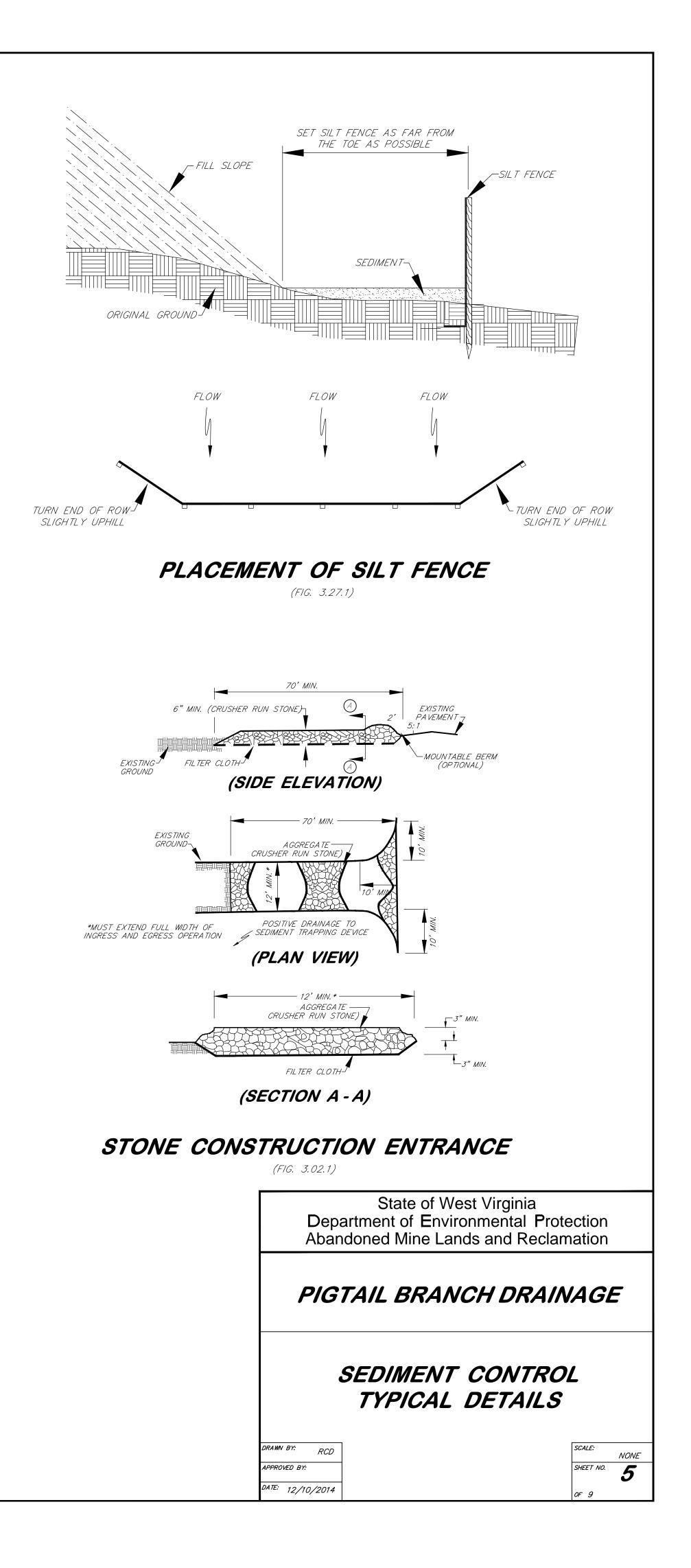
– SILT FENCE FILTER FABRI

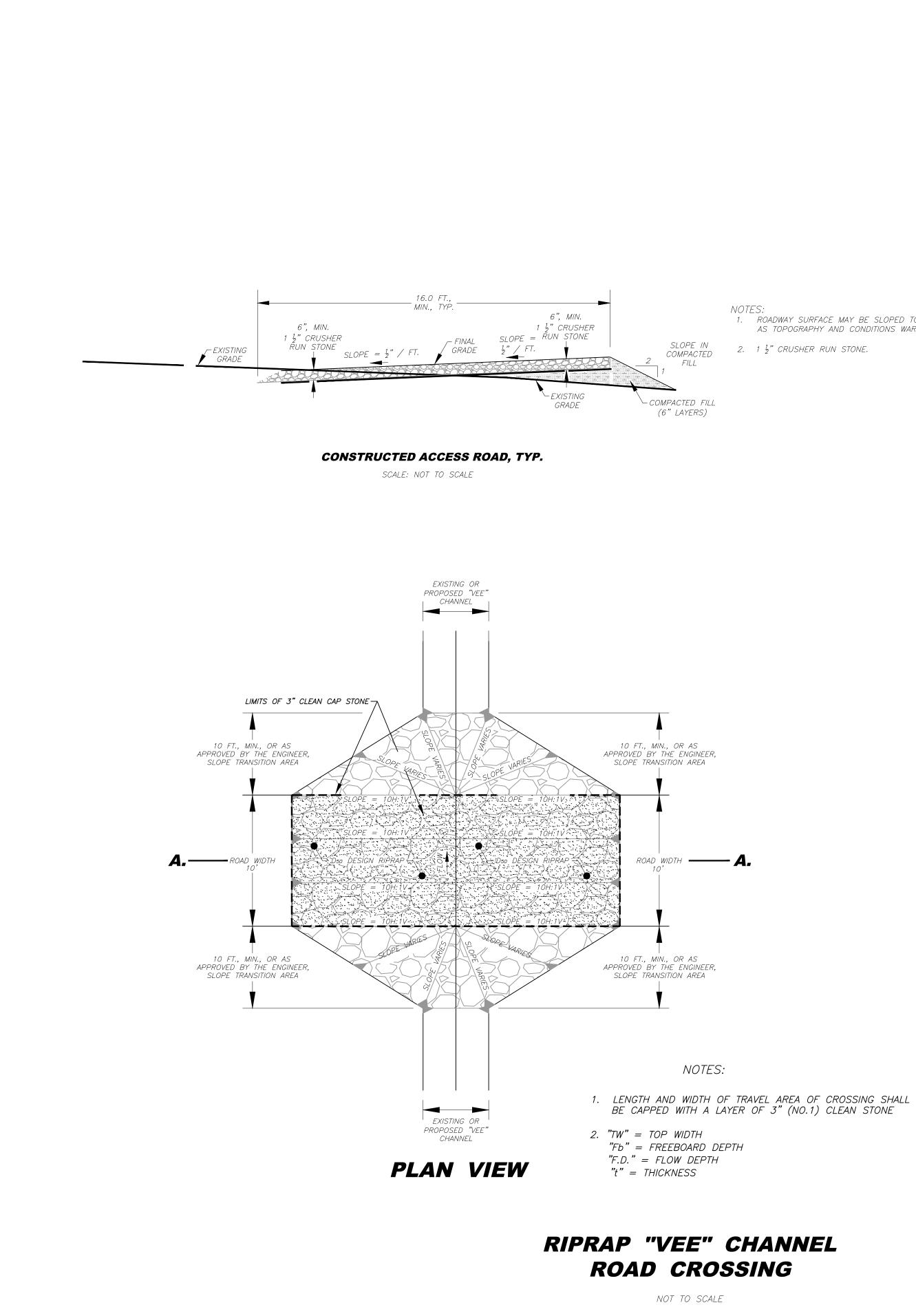
X 48" HARDWOO POST., TYP.

10 FT., MAX.

- SILT FENCE ROLL END

TURN END OF ROW SLIGHTLY UPHILL FABRIC TO BE WRAPPED AROUND END POSTS





1. THE FILTER FABRIC SHALL BE OVERLAPPED 1.0 FOOT, MINIMUM, AT ALL JOINTS.

NOTES:

NON-WOVEN FILTER FABRIC -

DO NOT PLACE FABRIC ON SEEP SIDE OF SUBSURFACE DRAIN ----

DIRECTION OF SEEP

DIRECTION OF SEEP

DIRECTION OF SEEP

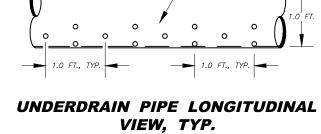
UNDERDRAIN DETAIL

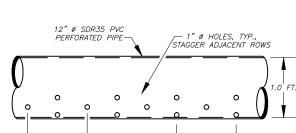
₹•⊂

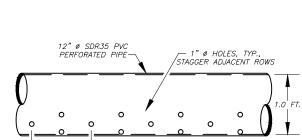
SOIL COVER

4.0 FT., MIN.

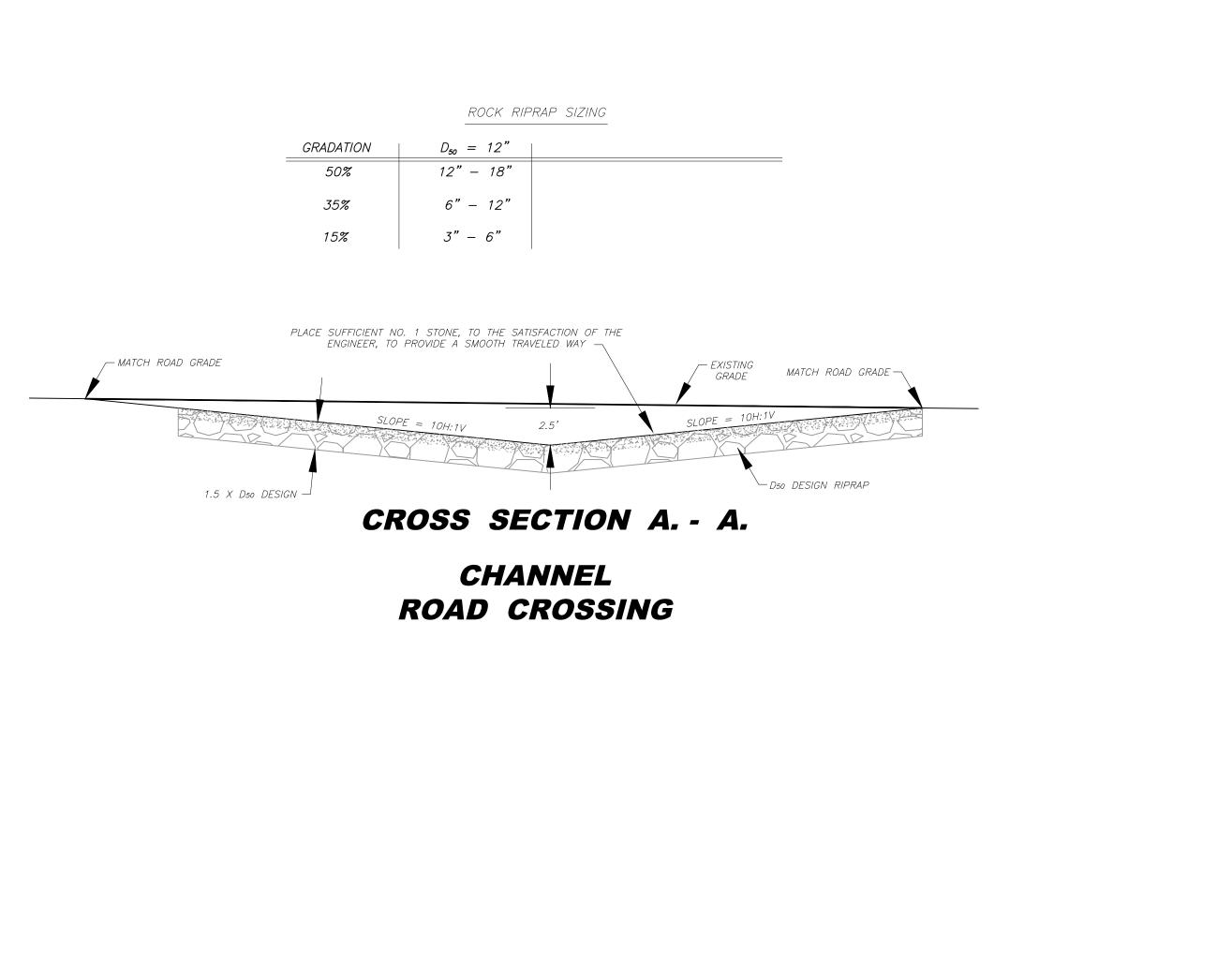




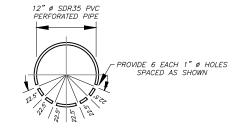




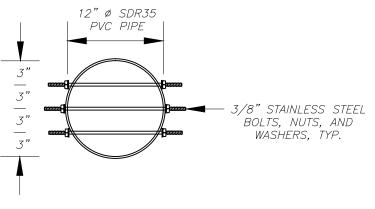




1. ROADWAY SURFACE MAY BE SLOPED TO EITHER SIDE AS TOPOGRAPHY AND CONDITIONS WARRANT.



UNDERDRAIN PIPE CROSS SECTION, TYP.



12" Ø PVC PIPE ANIMAL GUARD CROSS SECTION, TYP. SCALE: 1" = 1 FT.

> State of West Virginia Department of Environmental Protection Abandoned Mine Lands and Reclamation

PIGTAIL BRANCH DRAINAGE

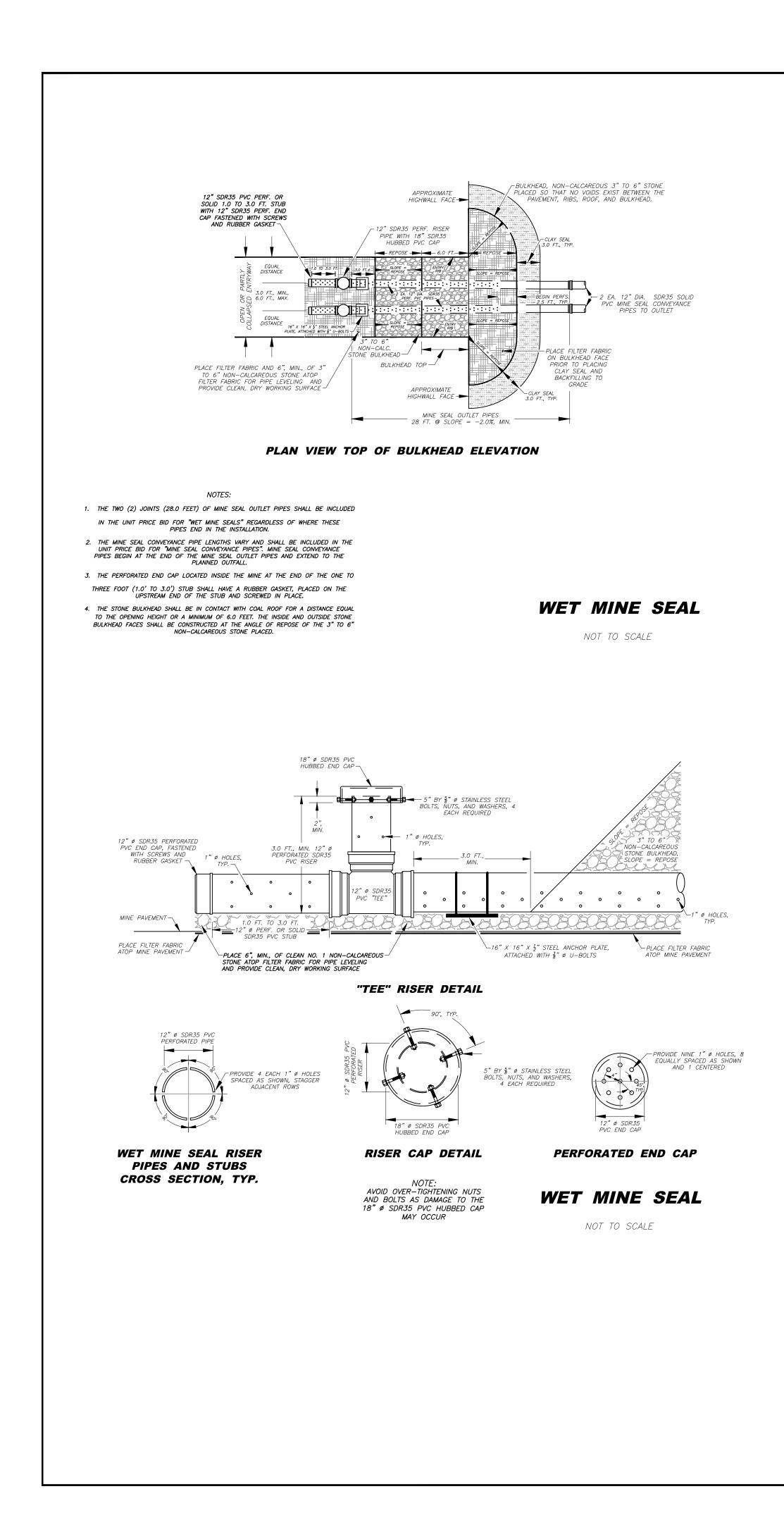
TYPICAL DETAILS

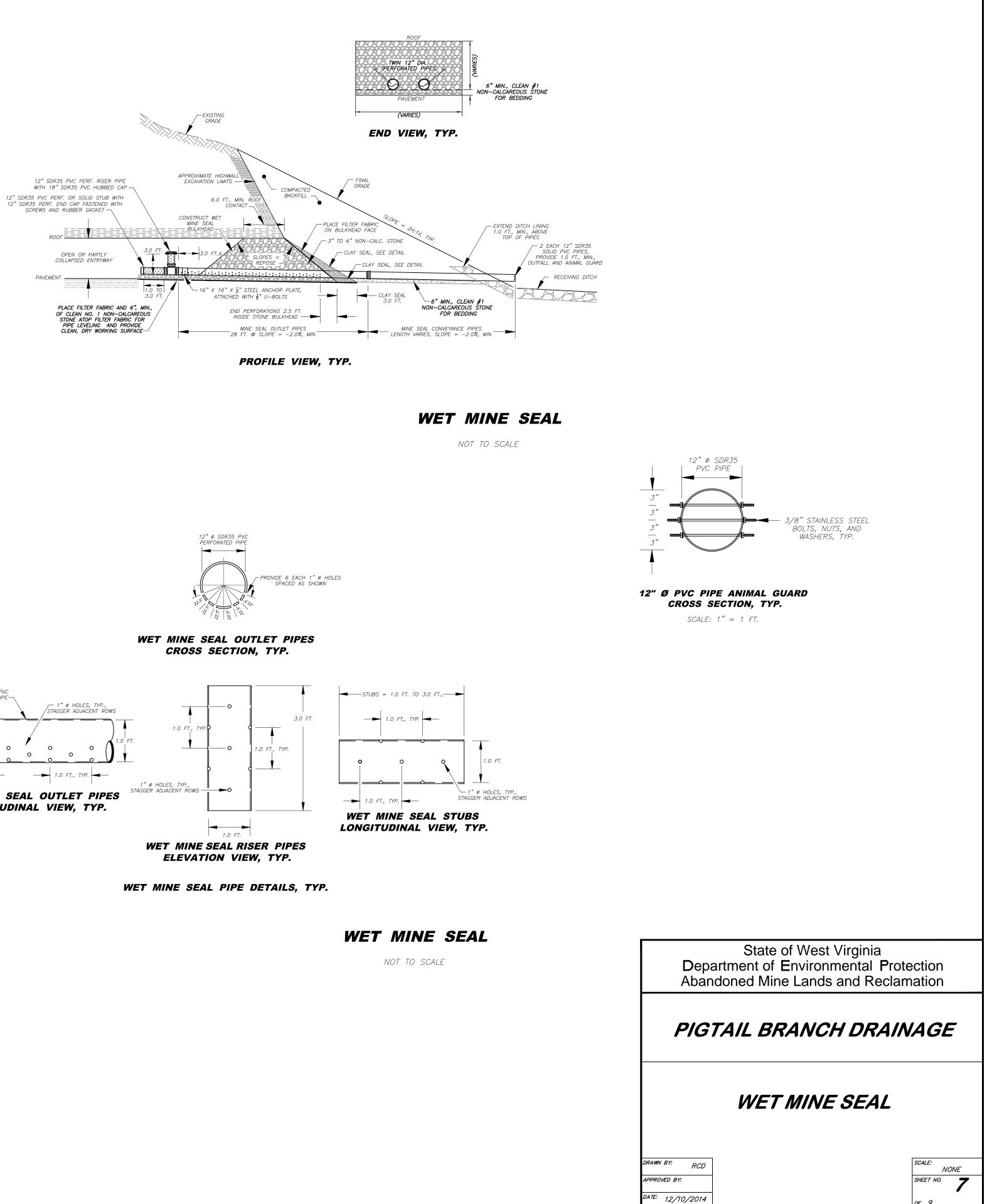
DRAWN BY: RCD APPROVED BY: DATE: 12/10/2014

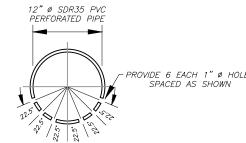
SCALE: NONE SHEET NO. 6 OF 9

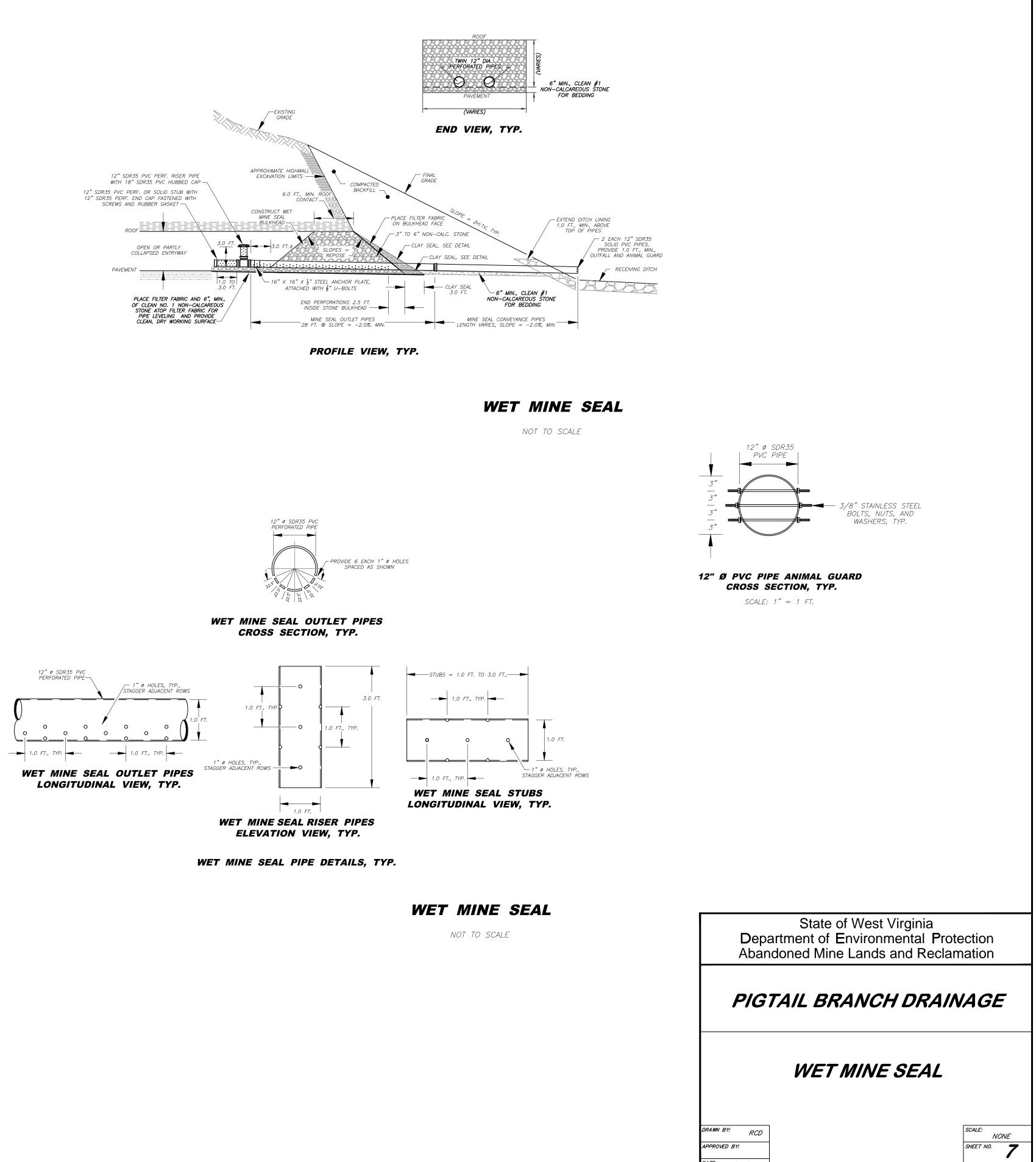
4' X 4' UNDERDRAIN

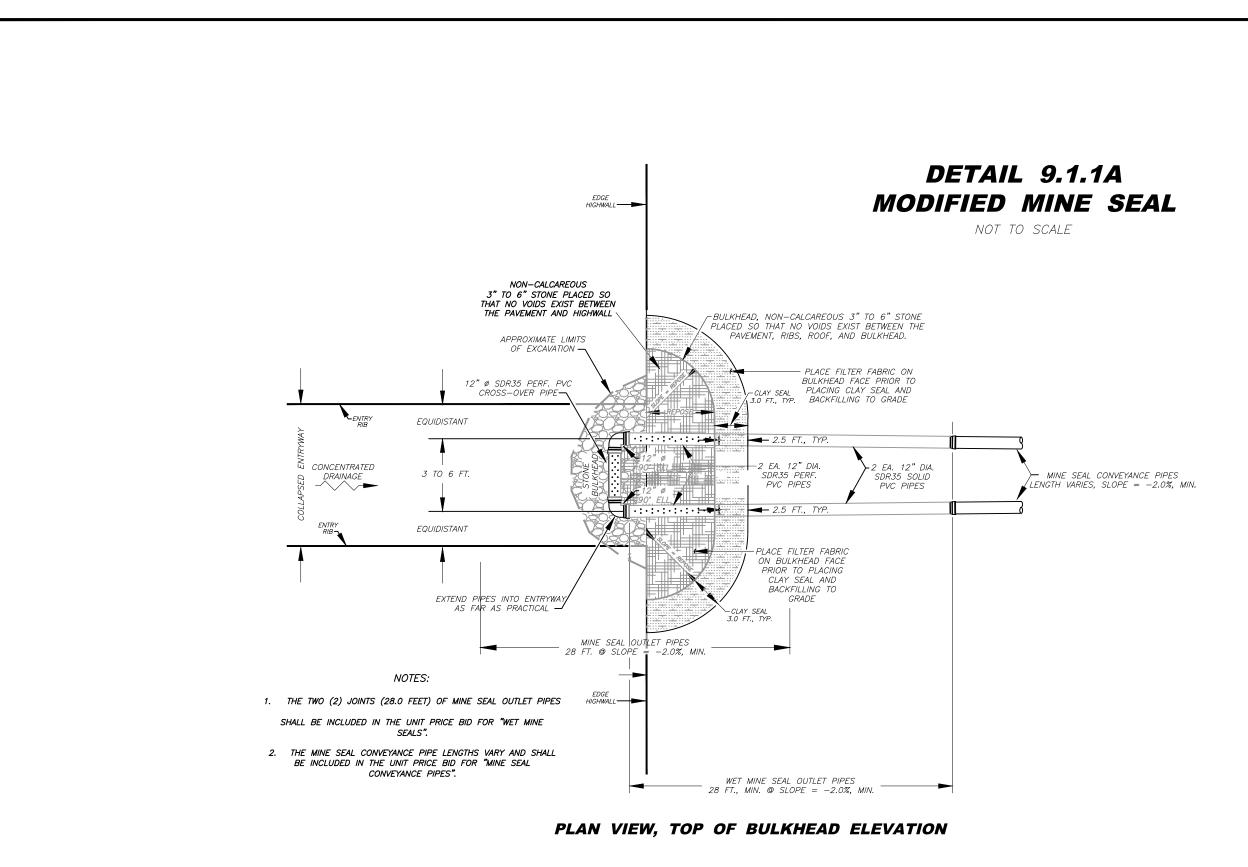
NOT TO SCALE



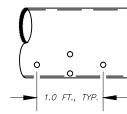








12" ø SDR35 PVC PERFORATED PIPE—



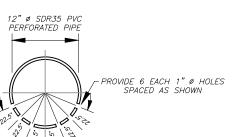
MODIFIED MINE SEAL OUTLET PIPES LONGITUDINAL VIEW, TYP.

NOT TO SCALE

MODIFIED MINE SEAL

MODIFIED MINE SEAL PIPE DETAILS, TYP.

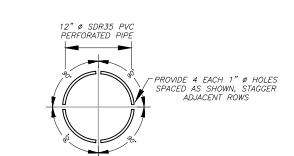




│ 1" Ø HOLES, TYP., │STAGGER ADJACENT ROWS ____

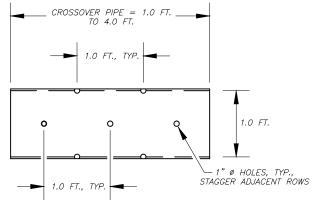
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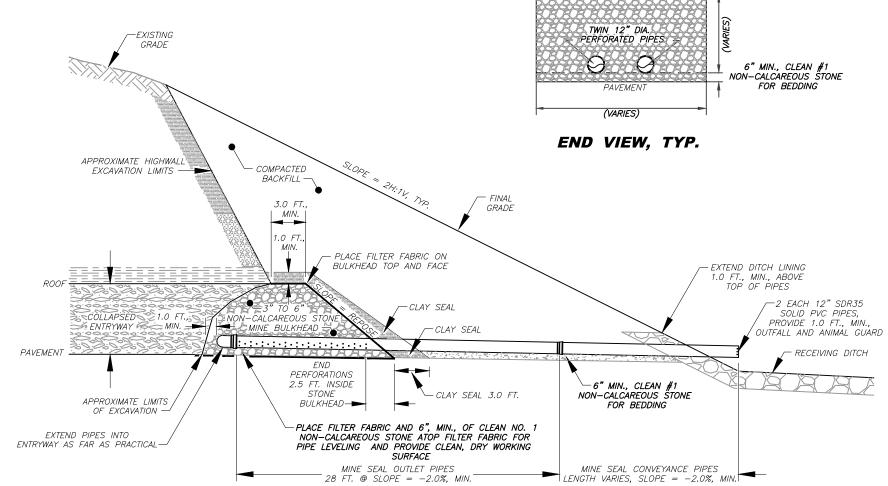




MODIFIED MINE SEAL CROSS-OVER PIPE CROSS SECTION, TYP.

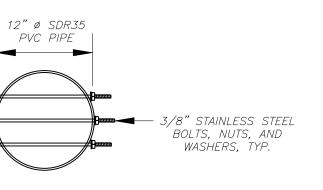






MODIFIED MINE SEAL

NOT TO SCALE



12" Ø PVC PIPE ANIMAL GUARD CROSS SECTION, TYP.

SCALE: 1" = 1 FT.

State of West Virginia Department of Environmental Protection Abandoned Mine Lands and Reclamation

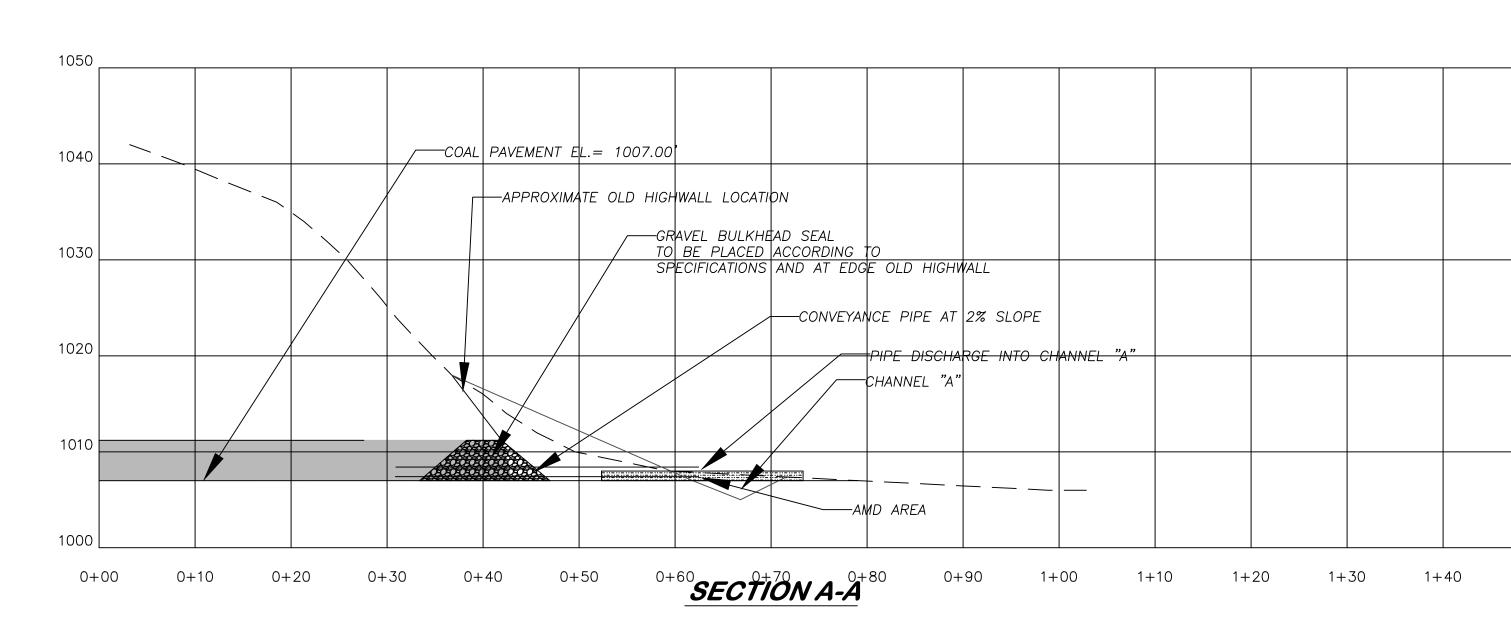
PIGTAIL BRANCH DRAINAGE

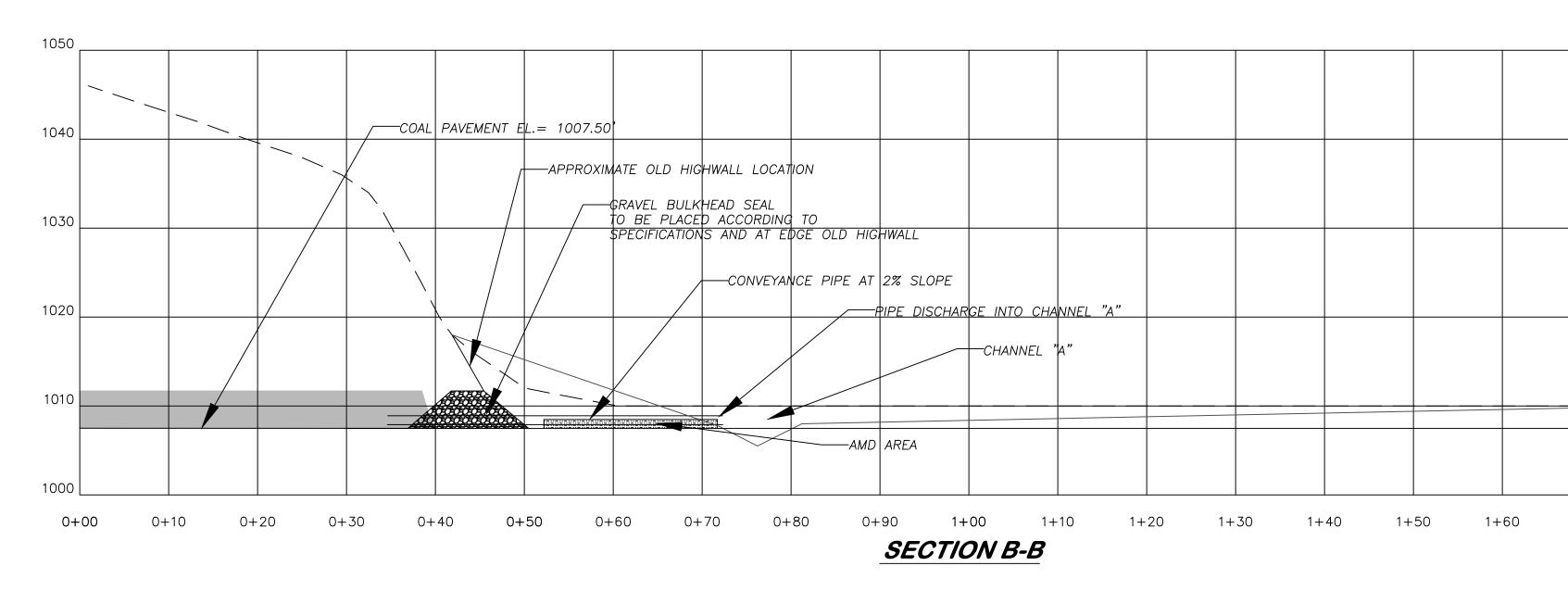
MODIFIED WET MINE SEAL

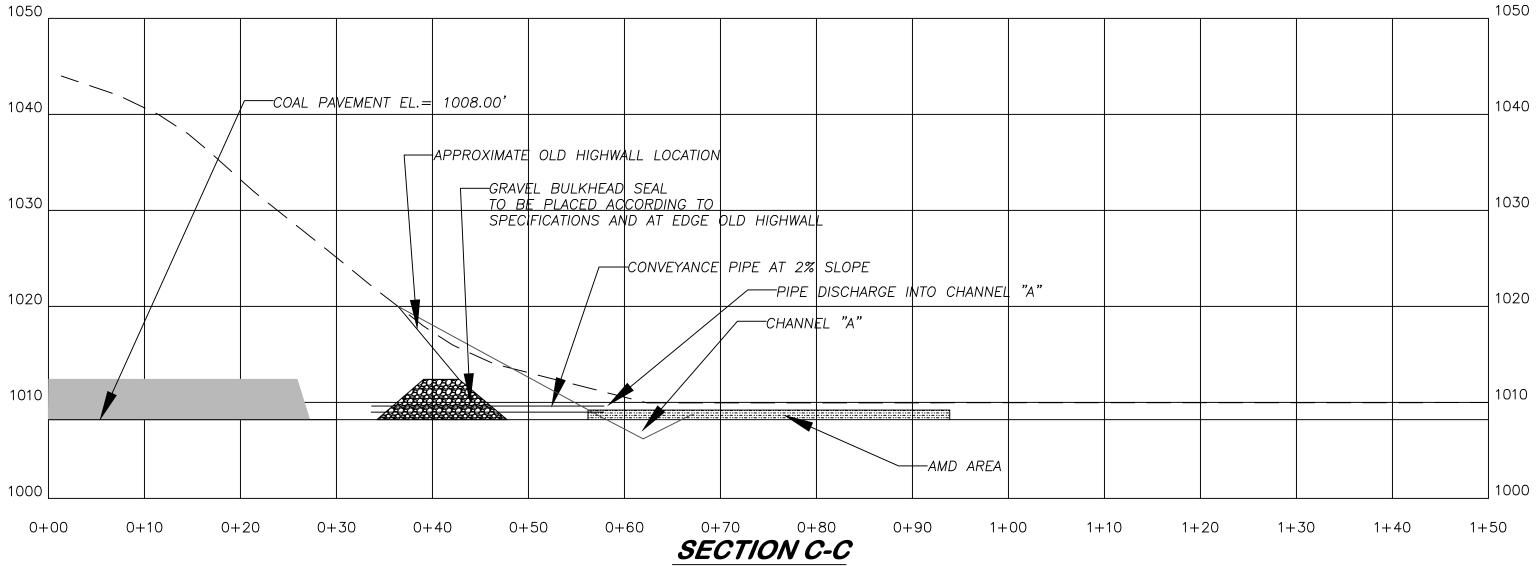
DRAWN BY: RCD APPROVED BY: DATE: 03/03/2015

SCALE: NONE SHEET NO. **8**

OF 9



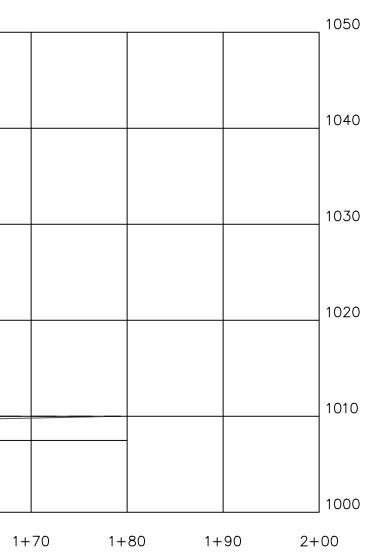






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State of West Virginia Department of Environmental Protection Abandoned Mine Lands and Reclamation

PIGTAIL BRANCH DRAINAGE

SITE 1 PORTAL CROSS SECTIONS

DRAWN BY: RCD APPROVED BY: AW DATE: 3/23/2015

