

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ABANDONED MINE LANDS AND RECLAMATION PIERPONT REFUSE PILE

WYOMING COUNTY, WEST VIRGINIA

Earl Ray Tomblin,
Governor

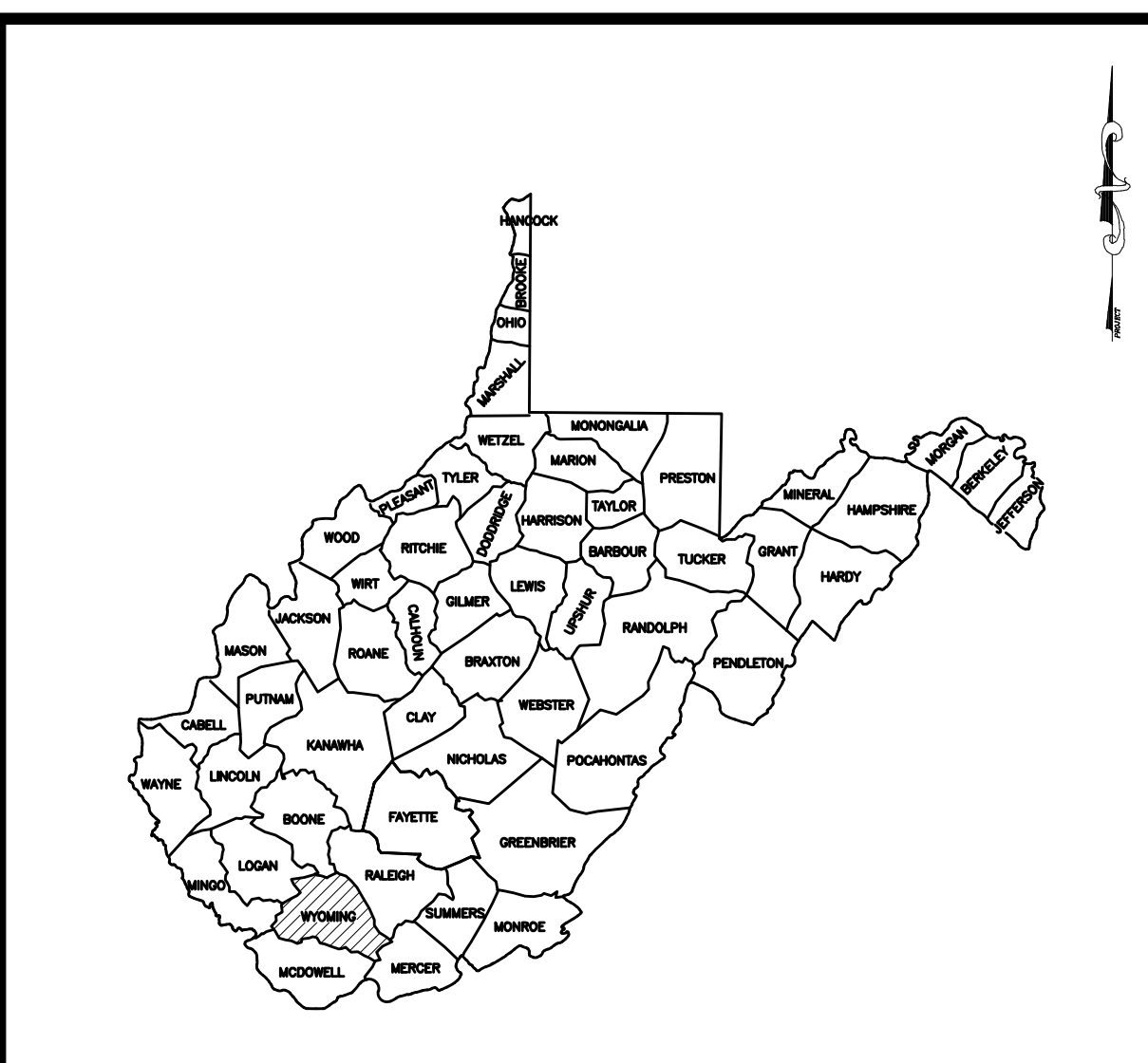
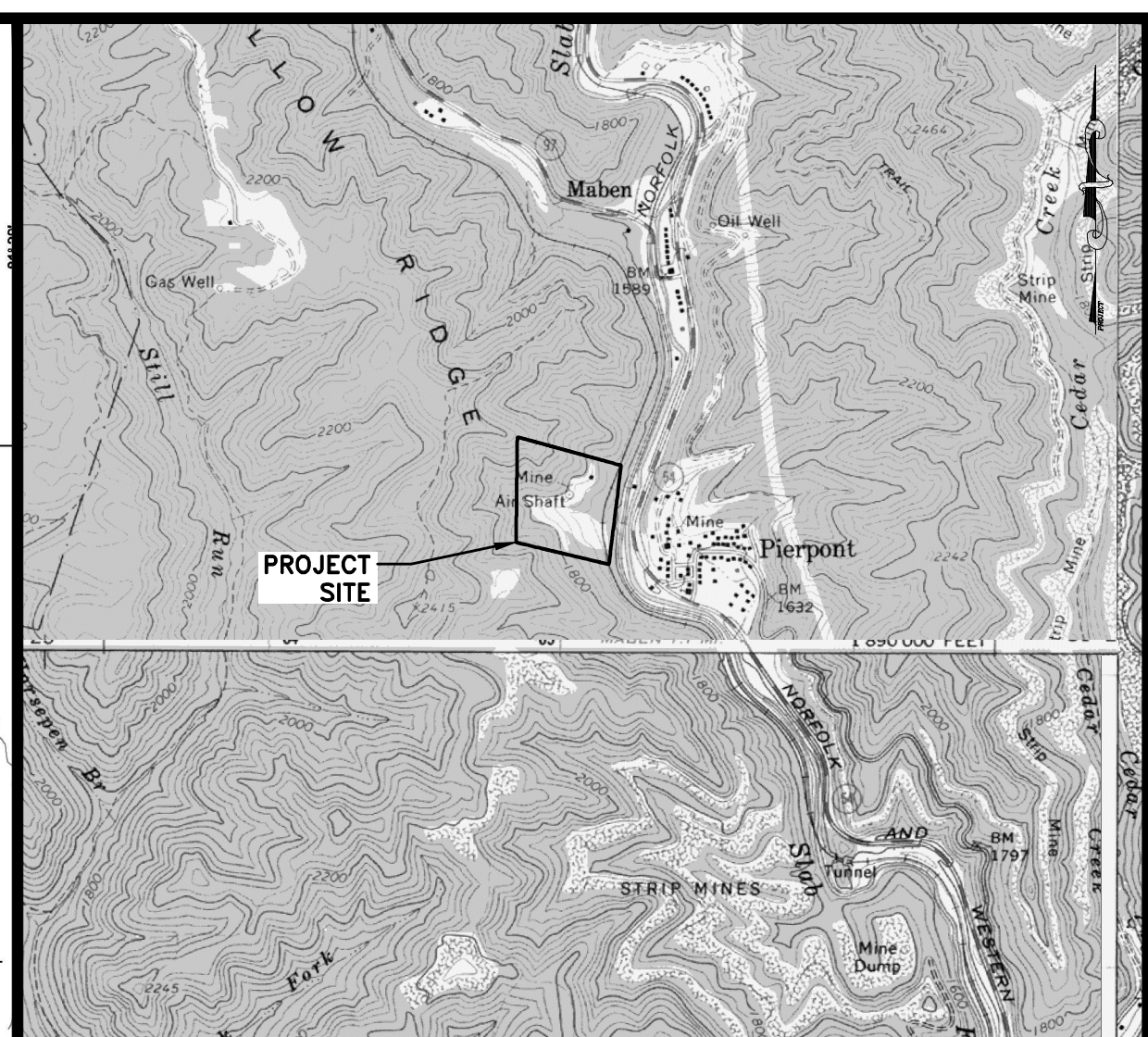
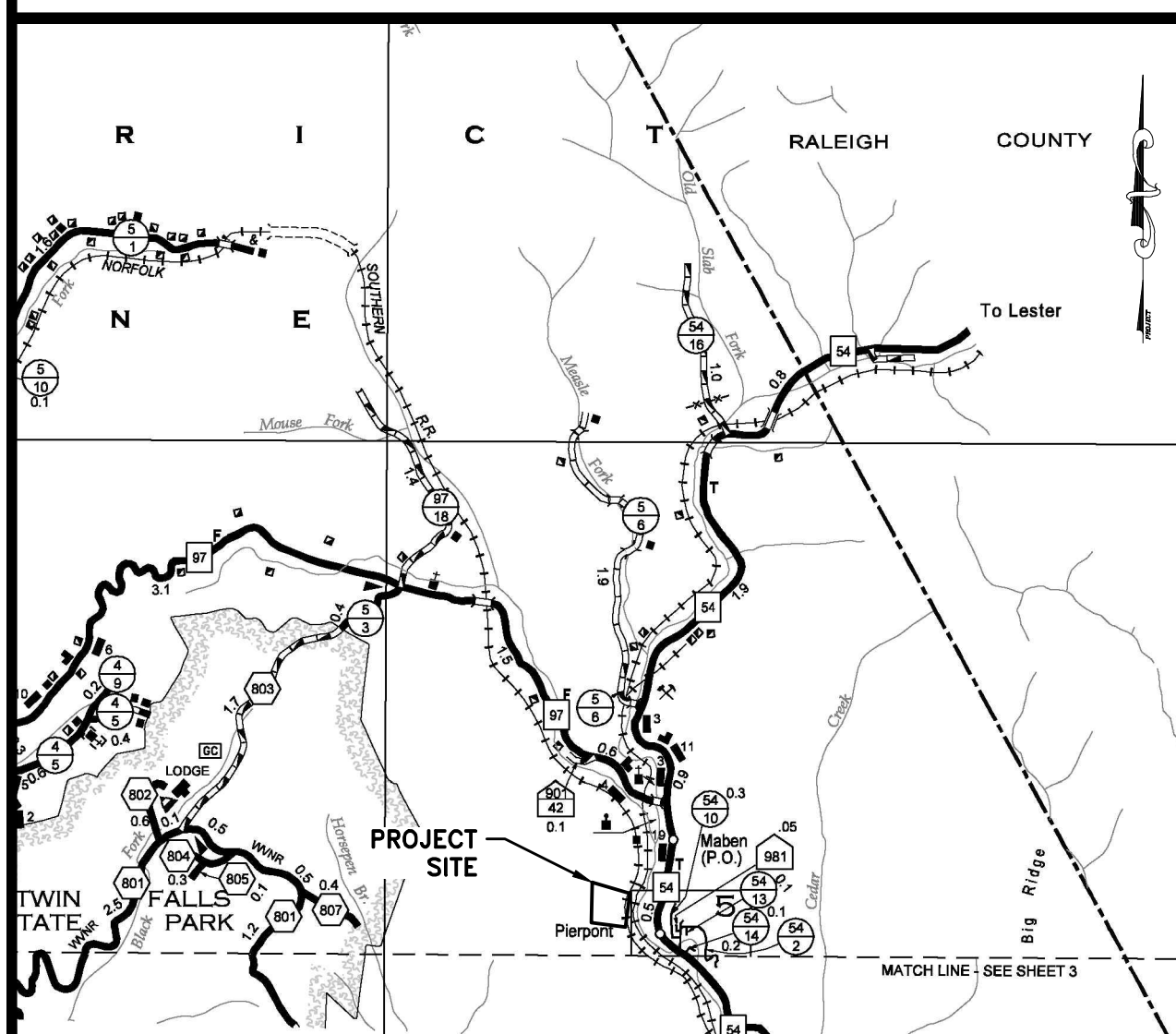
Randy C. Huffman,
Cabinet Secretary



PIERPONT REFUSE PILE					
Contractor's Bid Schedule					
Company Name: _____					
Address: _____					
The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.					
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	LS	LS	Mobilization and Demobilization (Limited to 10% of Total Bid)	LS	
2.0	LS	LS	Construction Layout (Limited to 5% of Total Bid)	LS	
3.0	LS	LS	Quality Control (Limited to 3% of Total Bid)	LS	
4.1	LS	LS	Site Preparation (Limited to 10% of Total Bid)	LS	
4.2	265	TN	Access Road Resurfacing		
5.1	3,380	LF	Straw Wattles		
5.2	970	LF	Silt Fence		
5.3	20	EA	Triangular Silt Dikes		
5.4	1	EA	Temporary Sediment Traps		
5.5	65	SY	Permanent Erosion Control Matting		
5.6	13	EA	Rock Check Dams		
5.7	2	EA	Stabilized Construction Entrance		
6.0	4.5	AC	Revegetation (Per Plan View Acre)		
7.1	815	LF	Type I Channel		
7.2	350	LF	Type II Channel (includes Optional Soil Borrow Areas) See Note		
7.3	28	CY	Riprap Aprons		
7.4	1	EA	Gouted Riprap Drive-Throughs		
8.1	6,520	CY	Unclassified Excavation		
9.3	1	EA	Wet Bat Gate Mine Seal		
9.4	3	EA	Wet Bat Gate Mine Seal w/ Conveyance Pipe		
9.5	880	LF	12" PVC Mine Drain Conveyance Pipe		
11.0	500	LF	Underdrain		
12.0	1.8	AC	Soil Cover (Per Plan View Acre)		
TOTAL					

Note: The 200 LF of Channel A (Sta. 1+50 to Sta. 3+50) is optional and will be deleted from the Project at the unit bid price for Item 7.2 if directed by the Engineer.

PIERPONT REFUSE PILE
WYOMING COUNTY, WEST VIRGINIA



SHEET INDEX	
SHEET 1	TITLE AND INDEX SHEET
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SHEET E1	EXISTING CONDITIONS
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SHEET D1-D4	MISCELLANEOUS DETAILS
SHEET P1	CHANNEL PROFILES
SHEET P2	CHANNEL/WET MINE SEAL PROFILES
SHEET P3	WET MINE SEAL PROFILES
SHEET X1-X2	CROSS SECTIONS

TERRADON CORPORATION
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636

Approved _____

Date _____

SEAL _____

TITLE AND INDEX SHEET

*TITLE-SHT TITLE
CAD File No.
WLG Drawn
EMP Checked
WJS Approved
AS SHOWN
Scale:
1-31-2014
Date:
01-5055-002
Project No.

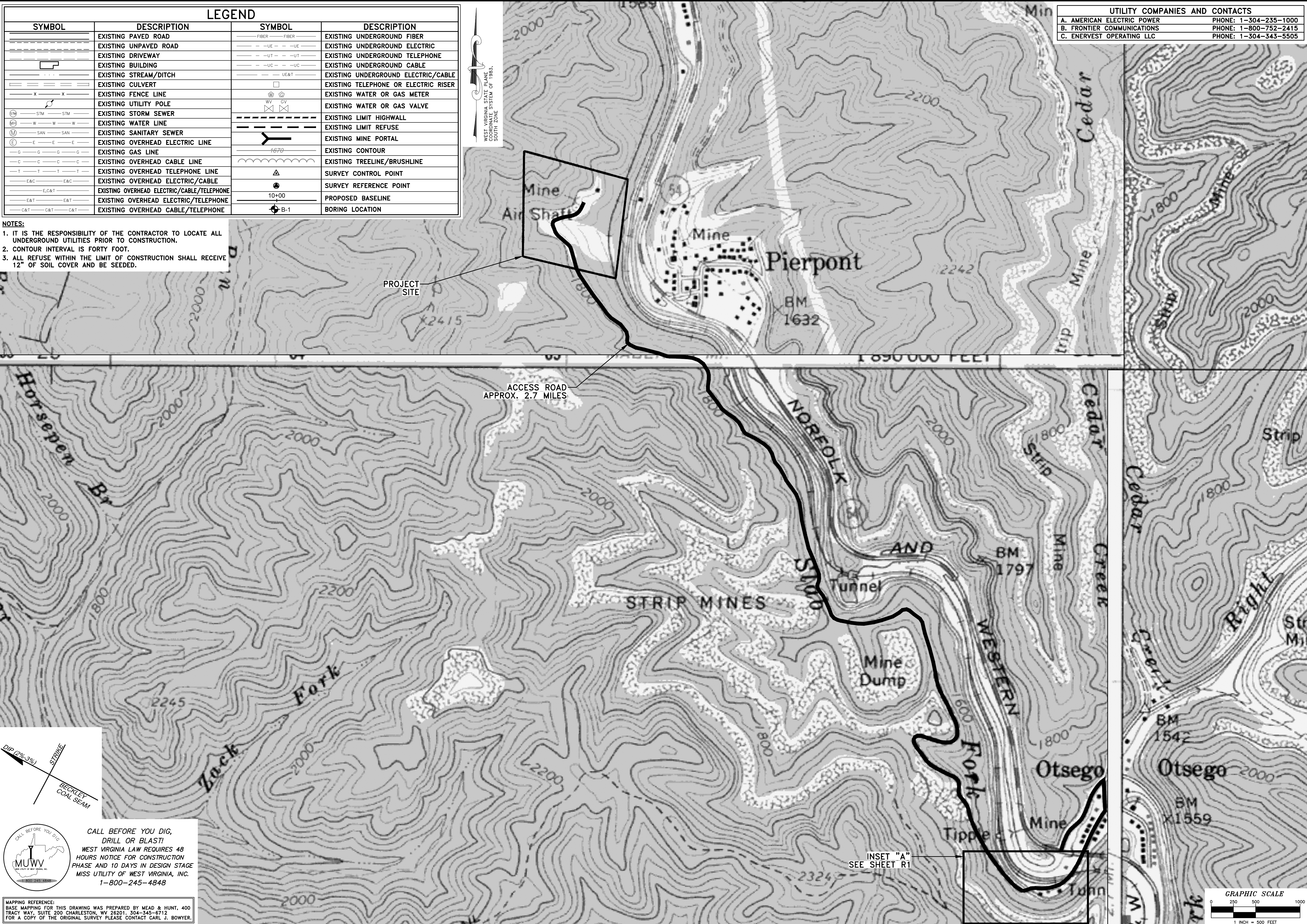
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LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD		EXISTING UNDERGROUND FIBER
	EXISTING UNPAVED ROAD		EXISTING UNDERGROUND ELECTRIC
	EXISTING DRIVEWAY		EXISTING UNDERGROUND TELEPHONE
	EXISTING BUILDING		EXISTING UNDERGROUND CABLE
	EXISTING STREAM/DITCH		EXISTING UNDERGROUND ELECTRIC/CABLE
	EXISTING CULVERT		EXISTING TELEPHONE OR ELECTRIC RISER
	EXISTING FENCE LINE		EXISTING WATER OR GAS METER
	EXISTING UTILITY POLE		EXISTING WATER OR GAS VALVE
	EXISTING STORM SEWER		EXISTING LIMIT HIGHWALL
	EXISTING WATER LINE		EXISTING LIMIT REFUSE
	EXISTING SANITARY SEWER		EXISTING MINE PORTAL
	EXISTING OVERHEAD ELECTRIC LINE		EXISTING CONTOUR
	EXISTING GAS LINE		EXISTING TREELINE/BRUSHLINE
	EXISTING OVERHEAD CABLE LINE		SURVEY CONTROL POINT
	EXISTING OVERHEAD TELEPHONE LINE		SURVEY REFERENCE POINT
	EXISTING OVERHEAD ELECTRIC/CABLE		PROPOSED BASELINE
	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		BORING LOCATION
	EXISTING OVERHEAD ELECTRIC/TELEPHONE		
	EXISTING OVERHEAD CABLE/TELEPHONE		

UTILITY COMPANIES AND CONTACTS	
A. AMERICAN ELECTRIC POWER	PHONE: 1-304-235-1000
B. FRONTIER COMMUNICATIONS	PHONE: 1-800-752-2415
C. ENERVEST OPERATING LLC	PHONE: 1-304-343-5505

NOTES:
 1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 2. CONTOUR INTERVAL IS FORTY FOOT.
 3. ALL REFUSE WITHIN THE LIMIT OF CONSTRUCTION SHALL RECEIVE 12" OF SOIL COVER AND BE SEED.



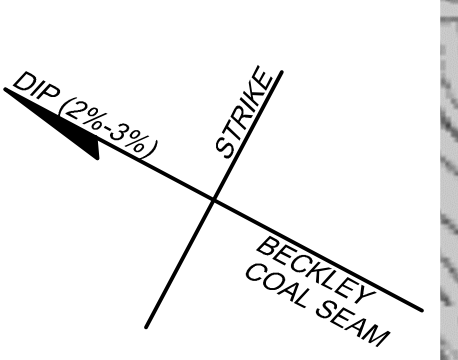
WEST VIRGINIA STATE PLANE
 COORDINATE SYSTEM OF 1983
 SOUTH ZONE

NO.	DATE	REVISION

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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
 SITE ACCESS PLAN
 PIERPONT REFUSE PILE
 WYOMING COUNTY, WEST VIRGINIA

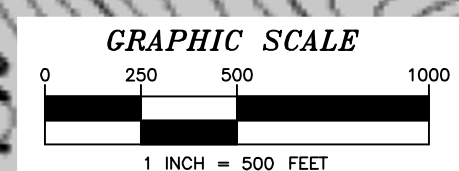
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Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=500'
Date:	1-31-2014
CAD File #	*-EXIST-COND



**CALL BEFORE YOU DIG,
 DRILL OR BLAST!**
 WEST VIRGINIA LAW REQUIRES 48
 HOURS NOTICE FOR CONSTRUCTION
 PHASE AND 10 DAYS IN DESIGN STAGE
 MISS UTILITY OF WEST VIRGINIA, INC.
 1-800-245-4848

MAPPING REFERENCE:
 BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400
 TRACY WAY, SUITE 200 CHARLESTON, WV 26201, 304-345-6712
 FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWSER.

INSET "A"
 SEE SHEET R1



S1

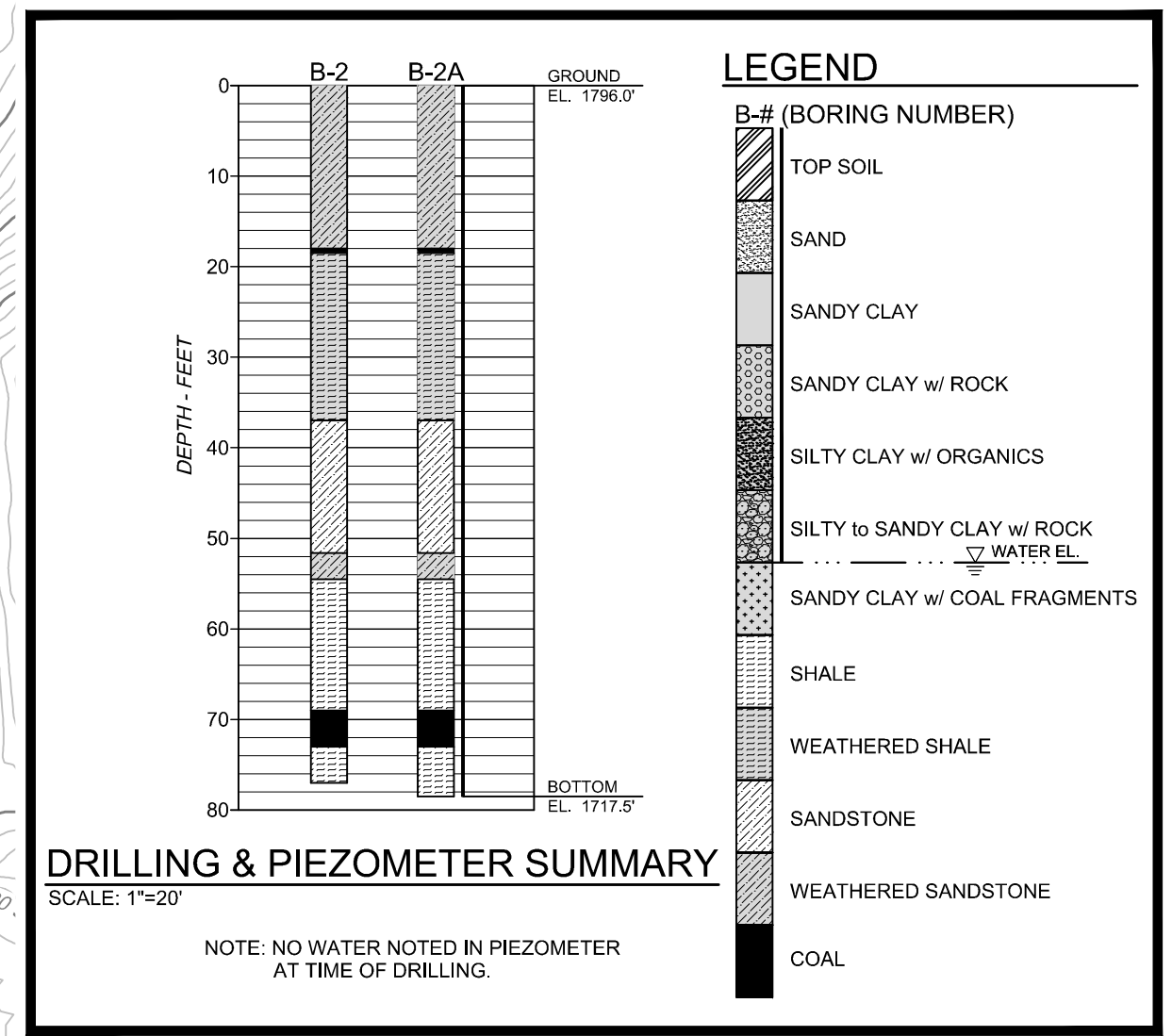
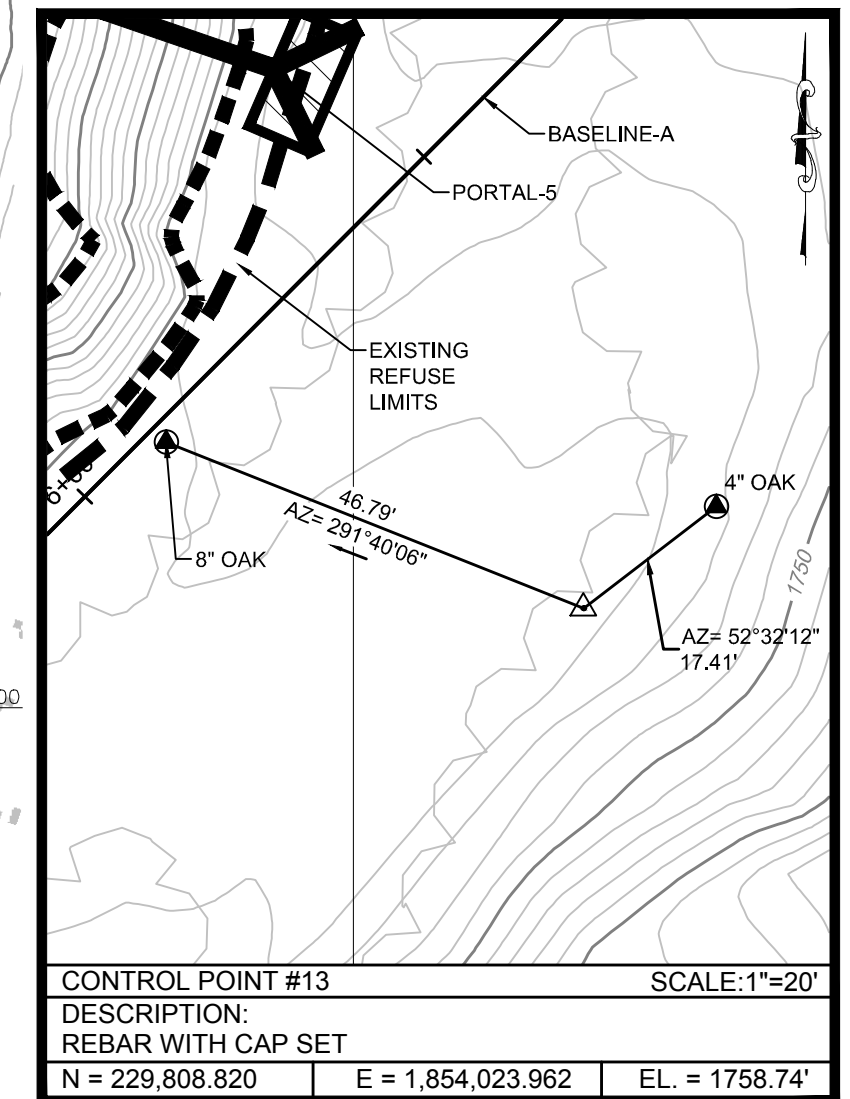
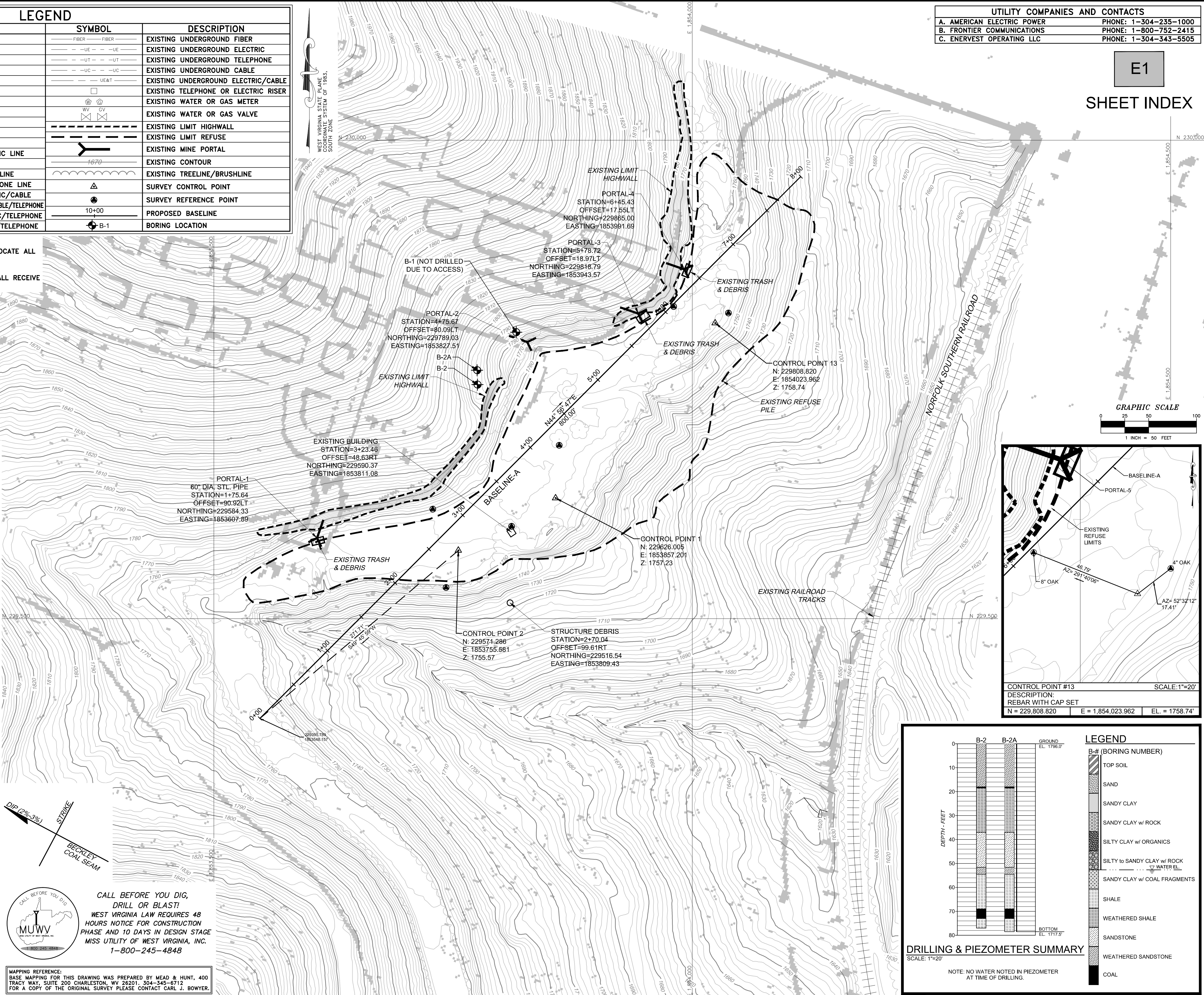
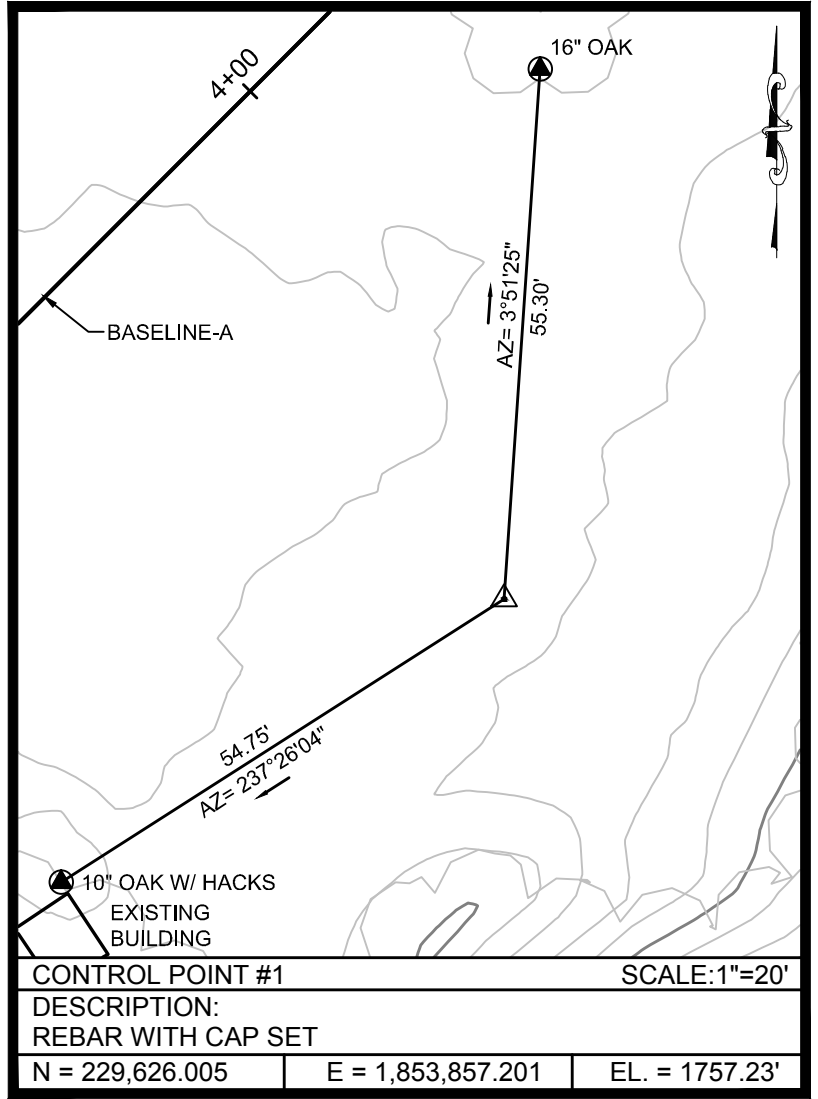
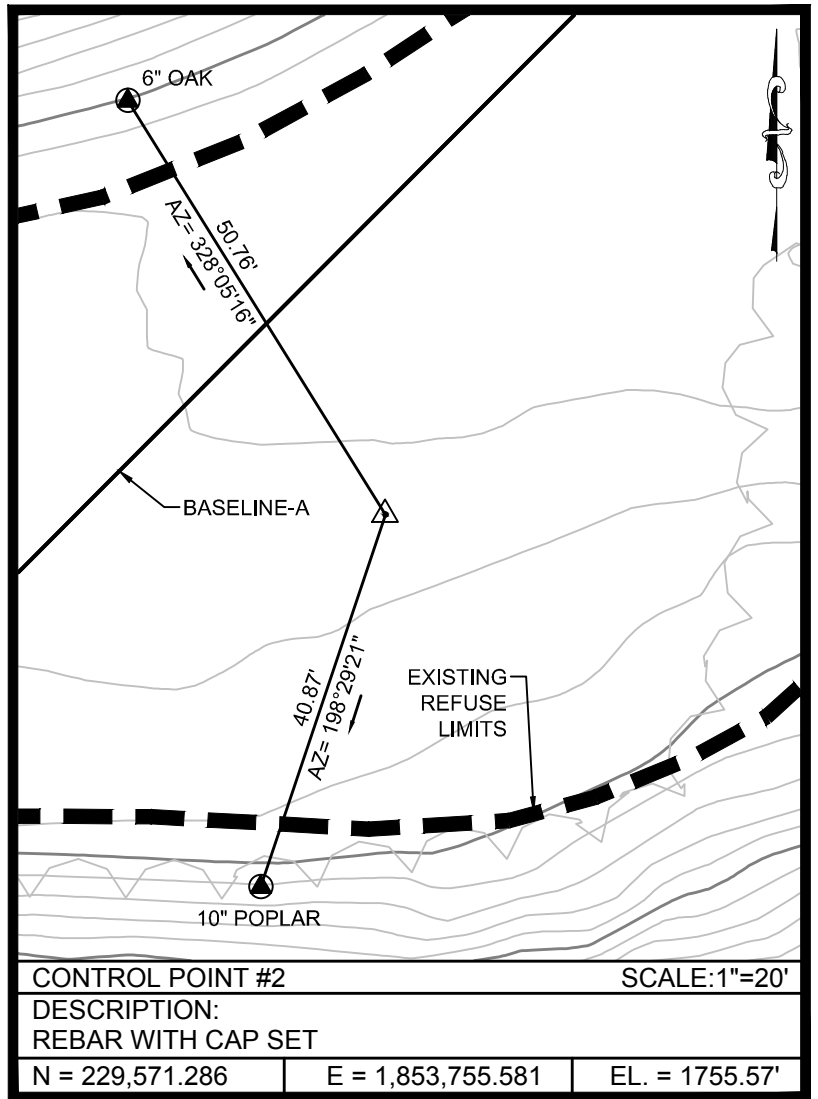
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LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD		EXISTING UNDERGROUND FIBER
	EXISTING UNPAVED ROAD		EXISTING UNDERGROUND ELECTRIC
	EXISTING DRIVEWAY		EXISTING UNDERGROUND TELEPHONE
	EXISTING BUILDING		EXISTING UNDERGROUND CABLE
	EXISTING STREAM/DITCH		EXISTING UNDERGROUND ELECTRIC/CABLE
	EXISTING CULVERT		EXISTING TELEPHONE OR ELECTRIC RISER
	EXISTING FENCE LINE		EXISTING WATER OR GAS METER
	EXISTING UTILITY POLE		EXISTING WATER OR GAS VALVE
	EXISTING STORM SEWER		EXISTING LIMIT HIGHWALL
	EXISTING WATER LINE		EXISTING LIMIT REFUSE
	EXISTING SANITARY SEWER		EXISTING MINE PORTAL
	EXISTING OVERHEAD ELECTRIC LINE		EXISTING CONTOUR
	EXISTING GAS LINE		EXISTING TREELINE/BRUSHLINE
	EXISTING OVERHEAD CABLE LINE		SURVEY CONTROL POINT
	EXISTING OVERHEAD TELEPHONE LINE		SURVEY REFERENCE POINT
	EXISTING OVERHEAD ELECTRIC/CABLE		PROPOSED BASELINE
	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		BORING LOCATION
	EXISTING OVERHEAD ELECTRIC/TELEPHONE		
	EXISTING OVERHEAD CABLE/TELEPHONE		

- NOTES:**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 - CONTOUR INTERVAL IS TWO FOOT.
 - ALL REFUSE WITHIN THE LIMIT OF CONSTRUCTION SHALL RECEIVE 12" OF SOIL COVER AND BE SEEDED.

UTILITY COMPANIES AND CONTACTS	
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E1
SHEET INDEX



CALL BEFORE YOU DIG, DRILL OR BLAST!
WEST VIRGINIA LAW REQUIRES 48 HOURS NOTICE FOR CONSTRUCTION PHASE AND 10 DAYS IN DESIGN STAGE MISS UTILITY OF WEST VIRGINIA, INC. 1-800-245-4848

MAPPING REFERENCE:
BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400 TRACY WAY, SUITE 200 CHARLESTON, WV 26201. 304-345-6712 FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWYER.

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering - Surveying - Landscape Architecture
P.O. Box 519
Nitro, Virginia 25143
(304) 755-8291 FAX 755-2836
www.terradon.com

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

EXISTING CONDITIONS
PIERPONT REFUSE PILE
WYOMING COUNTY, WEST VIRGINIA

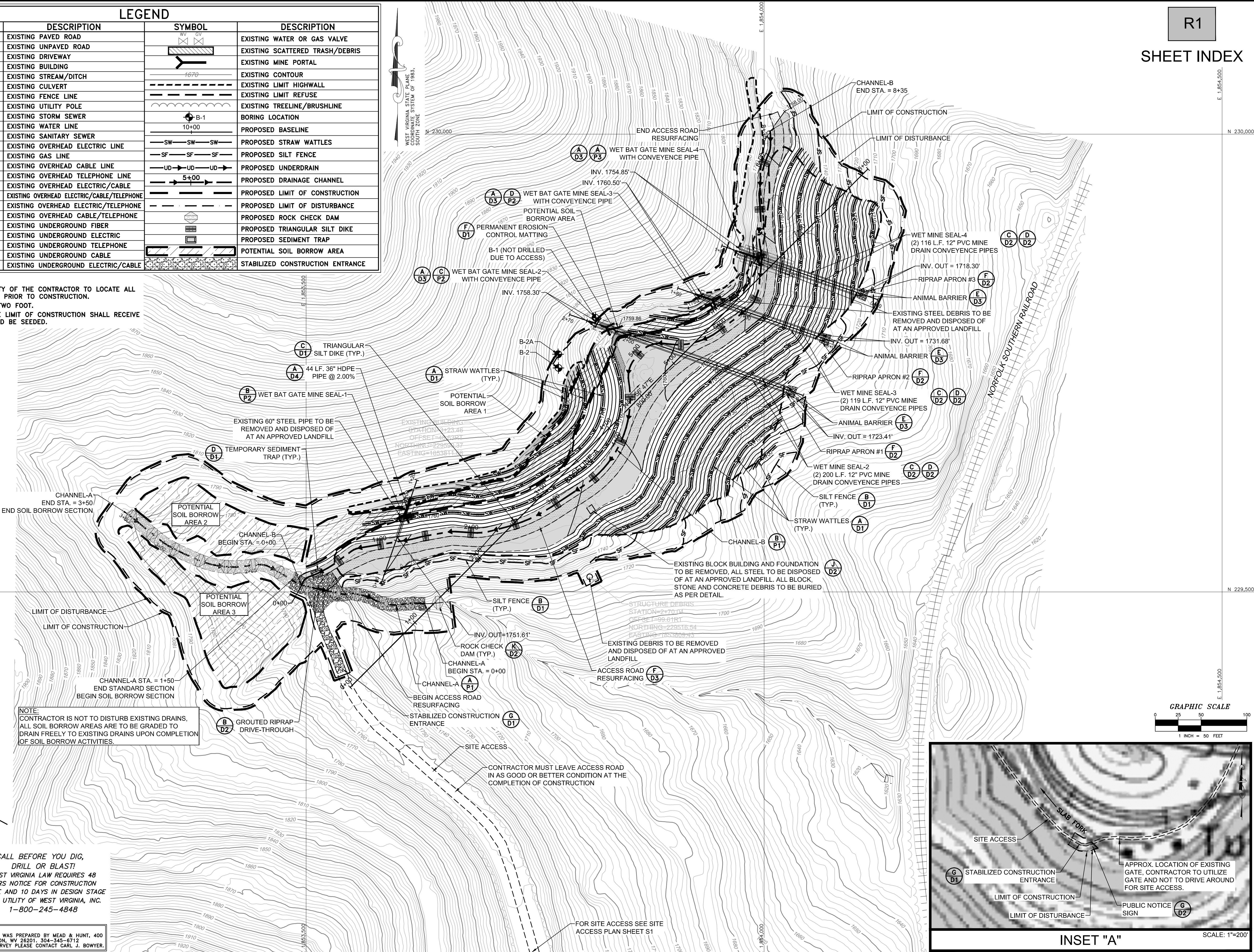
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Drawn: WLG
Checked: EMP
Approved: WJS
Scale: 1"=50'
Date: 1-31-2014
CAD File # *-EXIST-COND

E1

PLOT DATE : 1/21/2014 10:35 AM FILE SAVED BY :BILL.GERENCIOR ON 1/21/2014 10:00 AM P:\2013\01-5055-002-REC-PLAN.DWG

LEGEND			
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[Symbol]	EXISTING UNPAVED ROAD	[Symbol]	EXISTING SCATTERED TRASH/DEBRIS
[Symbol]	EXISTING DRIVEWAY	[Symbol]	EXISTING MINE PORTAL
[Symbol]	EXISTING BUILDING	[Symbol]	EXISTING CONTOUR
[Symbol]	EXISTING STREAM/DITCH	[Symbol]	EXISTING LIMIT HIGHWALL
[Symbol]	EXISTING CULVERT	[Symbol]	EXISTING LIMIT REFUSE
[Symbol]	EXISTING FENCE LINE	[Symbol]	EXISTING TREELINE/BRUSHLINE
[Symbol]	EXISTING UTILITY POLE	[Symbol]	BORING LOCATION
[Symbol]	EXISTING STORM SEWER	[Symbol]	PROPOSED BASELINE
[Symbol]	EXISTING WATER LINE	[Symbol]	PROPOSED STRAW WATTLES
[Symbol]	EXISTING SANITARY SEWER	[Symbol]	PROPOSED SILT FENCE
[Symbol]	EXISTING OVERHEAD ELECTRIC LINE	[Symbol]	PROPOSED UNDERDRAIN
[Symbol]	EXISTING GAS LINE	[Symbol]	PROPOSED DRAINAGE CHANNEL
[Symbol]	EXISTING OVERHEAD CABLE LINE	[Symbol]	PROPOSED LIMIT OF CONSTRUCTION
[Symbol]	EXISTING OVERHEAD TELEPHONE LINE	[Symbol]	PROPOSED LIMIT OF DISTURBANCE
[Symbol]	EXISTING OVERHEAD ELECTRIC/CABLE	[Symbol]	PROPOSED ROCK CHECK DAM
[Symbol]	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE	[Symbol]	PROPOSED TRIANGULAR SILT DIKE
[Symbol]	EXISTING UNDERGROUND FIBER	[Symbol]	PROPOSED SEDIMENT TRAP
[Symbol]	EXISTING UNDERGROUND ELECTRIC	[Symbol]	POTENTIAL SOIL BORROW AREA
[Symbol]	EXISTING UNDERGROUND TELEPHONE	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
[Symbol]	EXISTING UNDERGROUND CABLE		
[Symbol]	EXISTING UNDERGROUND ELECTRIC/CABLE		

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R1
SHEET INDEX

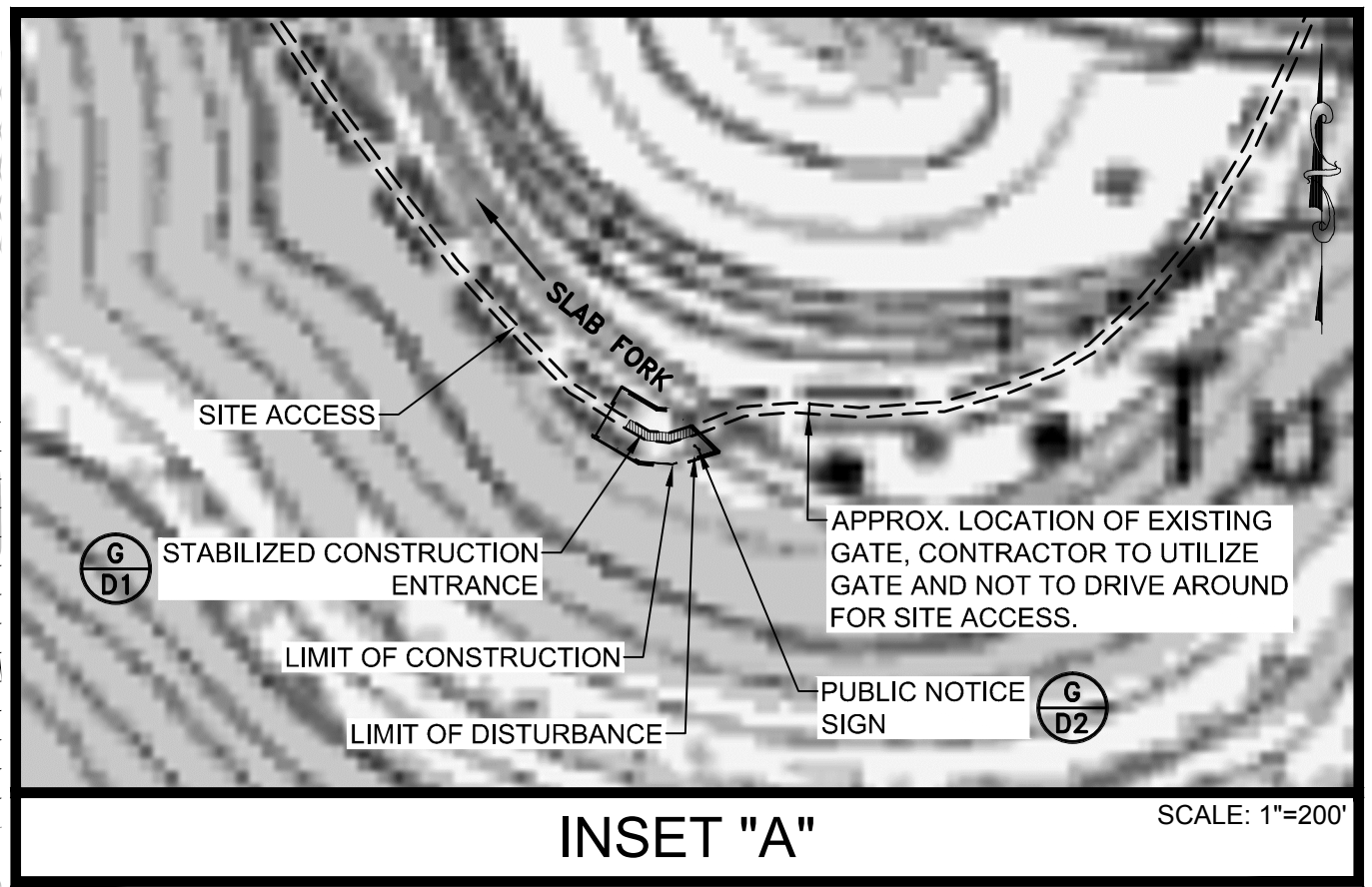
NO.	DATE	REVISION

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 Nitro, Virginia 25143
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
 RECLAMATION PLAN
 PIERPONT REFUSE PILE
 WYOMING COUNTY, WEST VIRGINIA

Project No.	01-5055-002
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	1-31-2014
CAD File #	*-REC-PLAN

R1



CALL BEFORE YOU DIG, DRILL OR BLAST!
 WEST VIRGINIA LAW REQUIRES 48 HOURS NOTICE FOR CONSTRUCTION PHASE AND 10 DAYS IN DESIGN STAGE MISS UTILITY OF WEST VIRGINIA, INC. 1-800-245-4848

MUWV
 MISS UTILITY OF WEST VIRGINIA

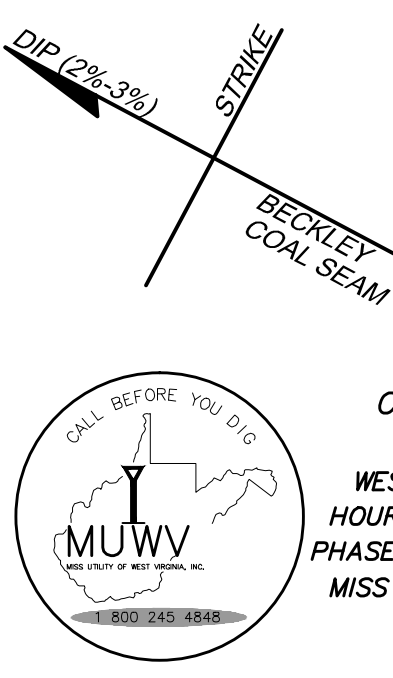
MAPPING REFERENCE:
 BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400 TRACY WAY, SUITE 200 CHARLESTON, WV 26201, 304-345-6712 FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWSER.

PLOT DATE : 1/21/2014 10:34 AM FILE SAVED BY :BILL.GERENCIOR ON 1/21/2014 10:00 AM P:\2013\01-5055-002-PIERPONT REFUSE PILE\40-TRANS-AML\DWG\PRODUCTION\SP\01-5055-002-REC-PLAN.DWG

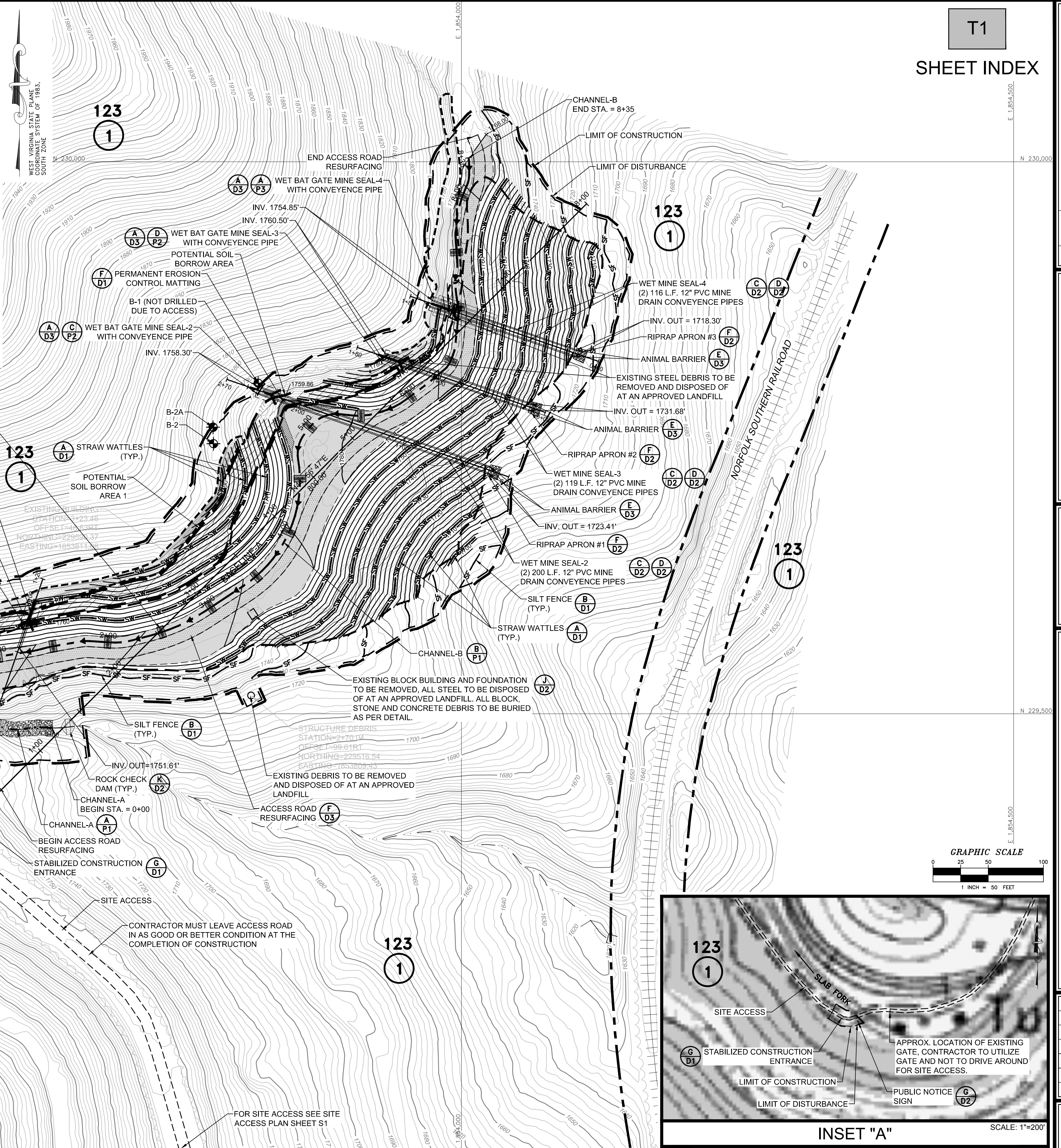
LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	EXISTING PAVED ROAD	[Symbol]	EXISTING SCATTERED TRASH/DEBRIS
[Symbol]	EXISTING UNPAVED ROAD	[Symbol]	EXISTING MINE PORTAL
[Symbol]	EXISTING DRIVEWAY	[Symbol]	EXISTING LIMIT HIGHWALL
[Symbol]	EXISTING BUILDING	[Symbol]	EXISTING LIMIT REFUSE
[Symbol]	EXISTING STREAM/DITCH	[Symbol]	BORING LOCATION
[Symbol]	EXISTING CULVERT	[Symbol]	PROPOSED BASELINE
[Symbol]	EXISTING FENCE LINE	[Symbol]	PROPOSED STRAW WATTLES
[Symbol]	EXISTING UTILITY POLE	[Symbol]	PROPOSED SILT FENCE
[Symbol]	EXISTING STORM SEWER	[Symbol]	PROPOSED UNDERDRAIN
[Symbol]	EXISTING WATER LINE	[Symbol]	PROPOSED DRAINAGE CHANNEL
[Symbol]	EXISTING SANITARY SEWER	[Symbol]	PROPOSED LIMIT OF CONSTRUCTION
[Symbol]	EXISTING OVERHEAD ELECTRIC LINE	[Symbol]	PROPOSED TRIANGULAR SILT DIKE
[Symbol]	EXISTING GAS LINE	[Symbol]	PROPOSED TRIANGULAR SILT DIKE
[Symbol]	EXISTING OVERHEAD CABLE LINE	[Symbol]	PROPOSED SEDIMENT TRAP
[Symbol]	EXISTING OVERHEAD TELEPHONE LINE	[Symbol]	POTENTIAL SOIL BORROW AREA
[Symbol]	EXISTING OVERHEAD ELECTRIC/CABLE	[Symbol]	STABILIZED CONSTRUCTION ENTRANCE
[Symbol]	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE	[Symbol]	PROPERTY LINE
[Symbol]	EXISTING OVERHEAD ELECTRIC/TELEPHONE	[Symbol]	TAX MAP NUMBER
[Symbol]	EXISTING OVERHEAD CABLE/TELEPHONE	[Symbol]	PARCEL NUMBER
[Symbol]	EXISTING UNDERGROUND FIBER		
[Symbol]	EXISTING UNDERGROUND ELECTRIC		
[Symbol]	EXISTING UNDERGROUND TELEPHONE		
[Symbol]	EXISTING UNDERGROUND CABLE		
[Symbol]	EXISTING UNDERGROUND ELECTRIC/CABLE		
[Symbol]	EXISTING CONTOUR		
[Symbol]	EXISTING TREELINE/BRUSHLINE		
[Symbol]	EXISTING WATER OR GAS METER		

- NOTES:**
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
 - CONTOUR INTERVAL IS TWO FOOT.
 - ALL REFUSE WITHIN THE LIMIT OF CONSTRUCTION SHALL RECEIVE 12" OF SOIL COVER AND BE SEEDDED.

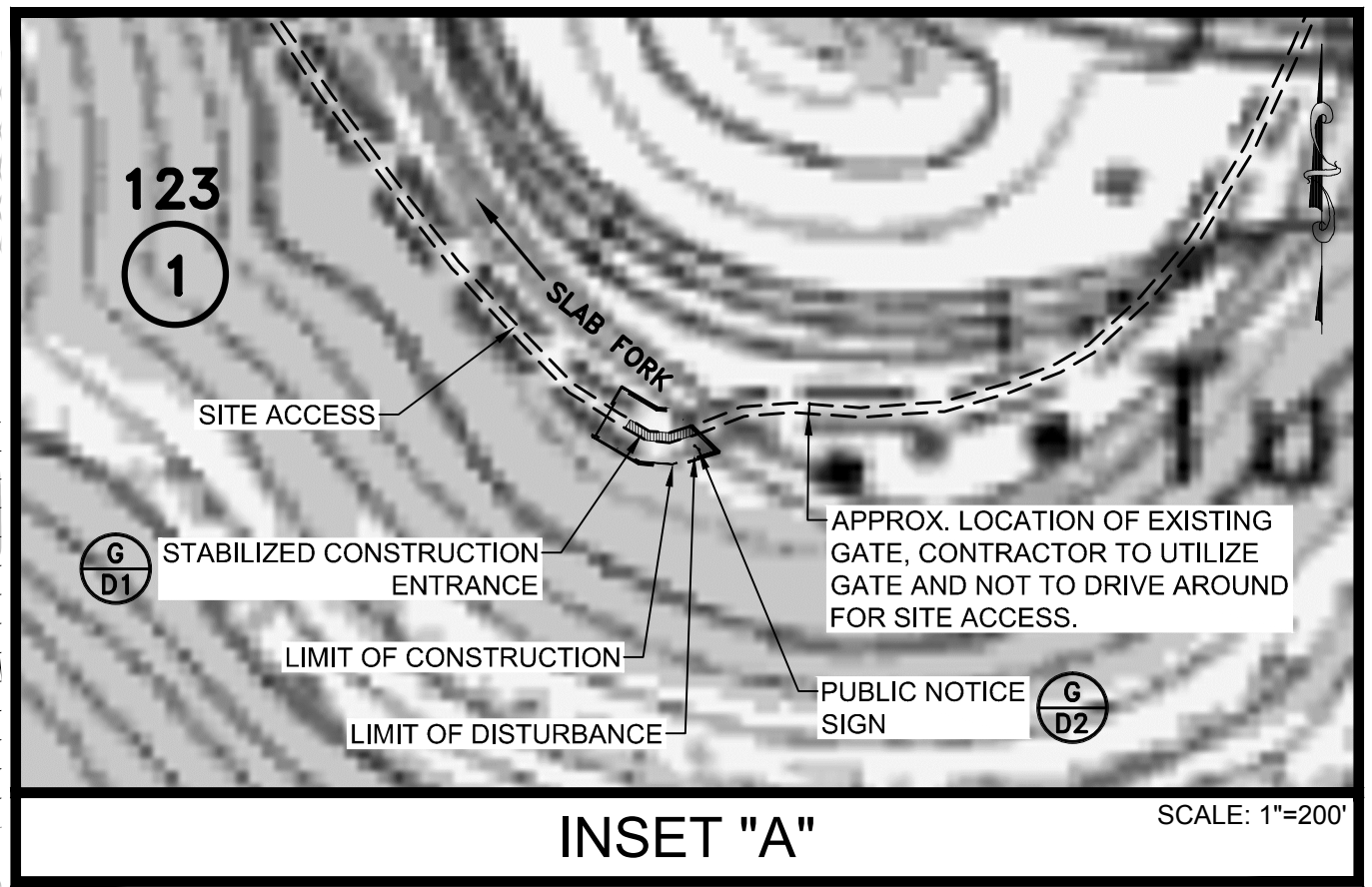
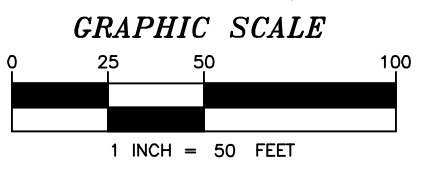
NOTE:
CONTRACTOR IS NOT TO DISTURB EXISTING DRAINS. ALL SOIL BORROW AREAS ARE TO BE GRADED TO DRAIN FREELY TO EXISTING DRAINS UPON COMPLETION OF SOIL BORROW ACTIVITIES.



MAPPING REFERENCE:
BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400 TRACY WAY, SUITE 200 CHARLESTON, WV 26201. 304-345-6712
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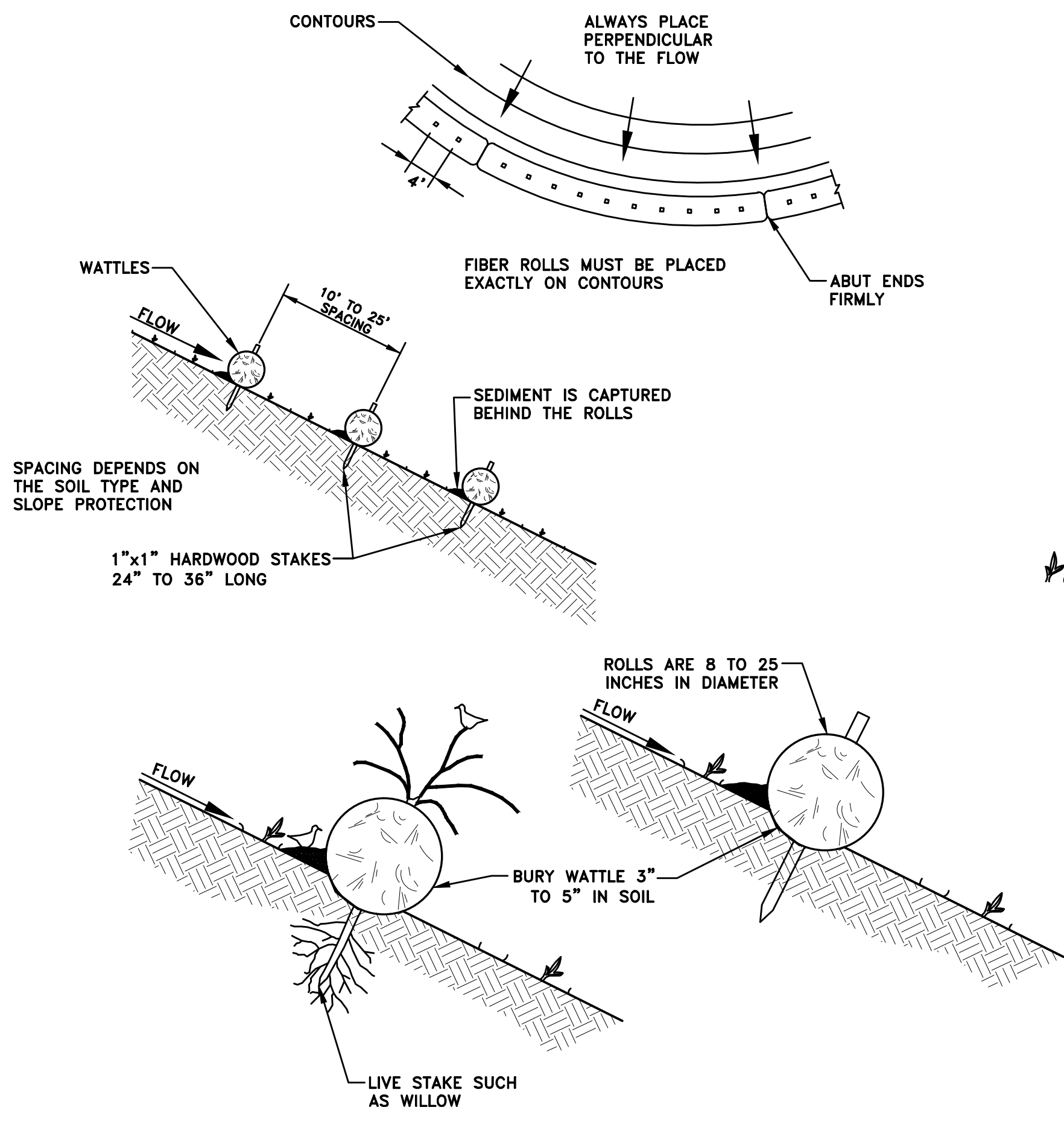


T1
SHEET INDEX

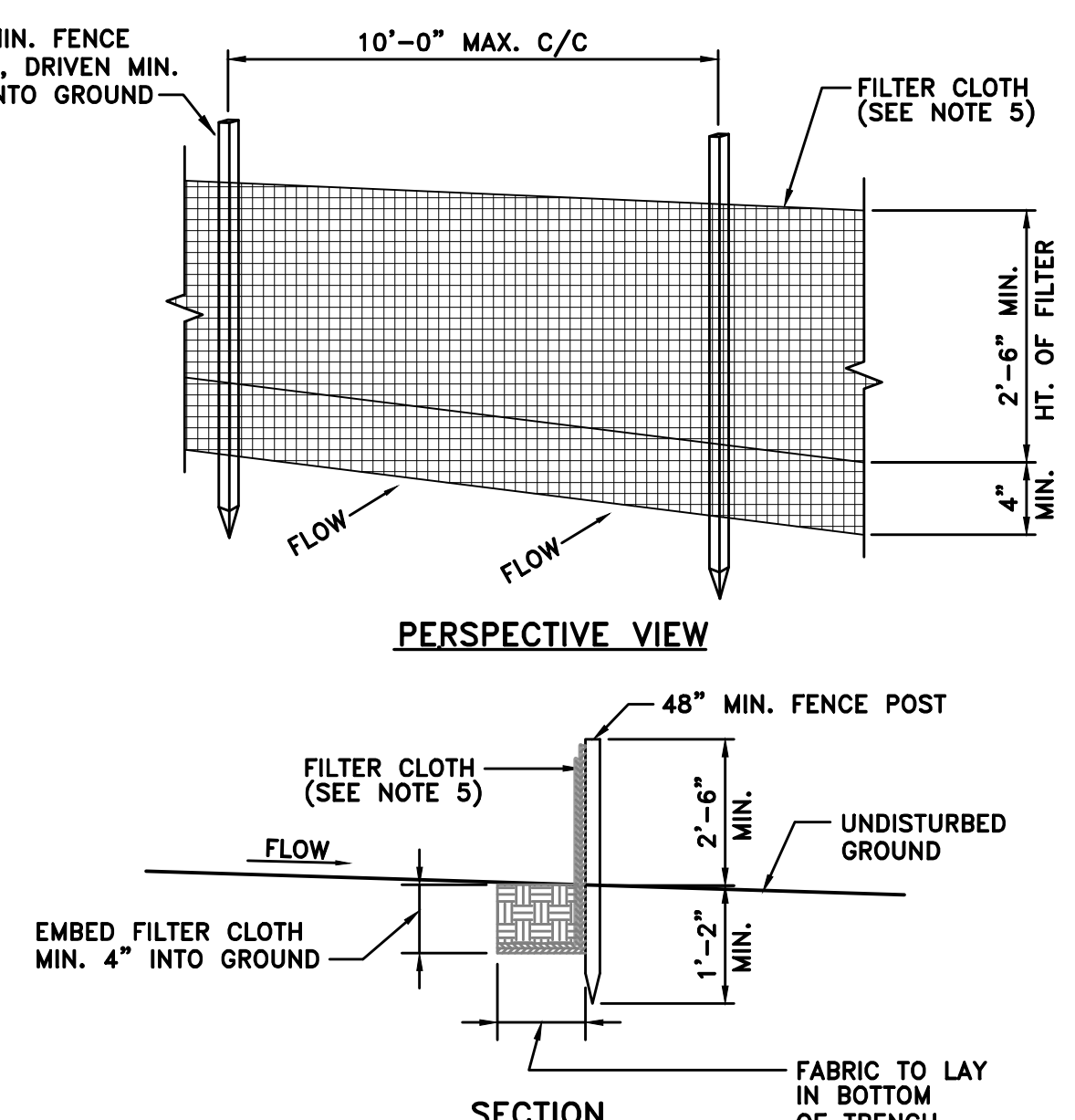


REVISION	NO.	DATE
<p>TERRADON Engineering - Surveying - Landscape Architecture P.O. Box 519 Nitro, Virginia 25143 (304) 755-8291 FAX 755-2836 www.terradon.com</p>		
<p>WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ABANDONED MINE LANDS AND RECLAMATION</p>		
<p>TAX MAP OVERLAY PIERPONT REFUSE PILE WYOMING COUNTY, WEST VIRGINIA</p>		
<p>Project No. 01-5055-002 Drawn: WLG Checked: EMP Approved: WJS Scale: 1"=50' Date: 1-31-2014 CAD File # *-REC-PLAN</p>		
<p>T1</p>		

PLOT DATE : 1/21/2014 10:31 AM FILE SAVED BY :BILL.GERENCIOR ON 1/21/2014 10:23 AM P:\2013\01-5055-002-PIERPOINT REFUSE PILE\40-TRANS-AML\DWG\PRODUCTION\SP\01-5055-002-DETAILS.DWG

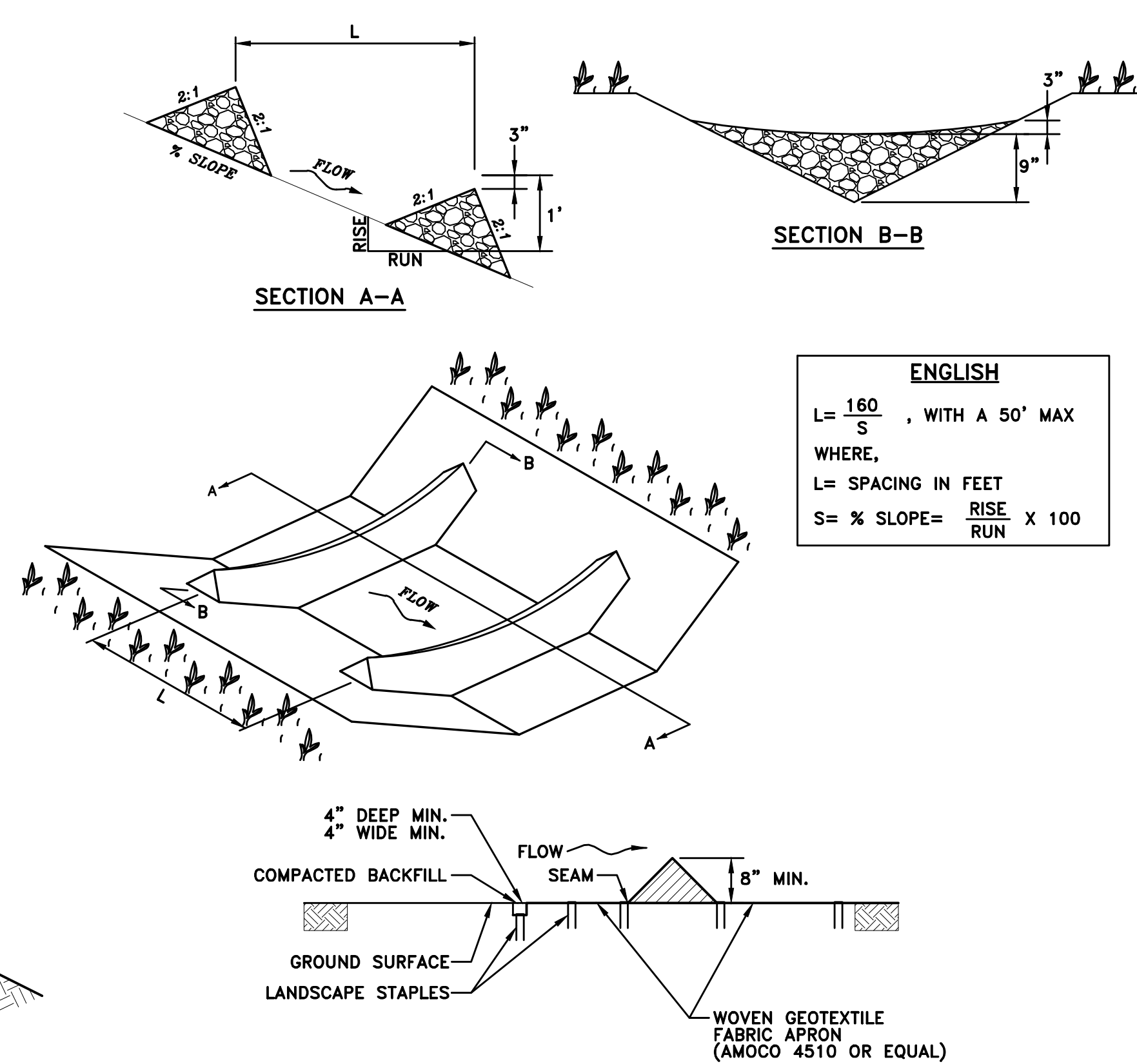


A STRAW WATTLE ANCHORING/ENTRENCHMENT DETAIL
NO SCALE



- NOTES:**
1. FILTER CLOTH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
 3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED PRIOR TO "BULGING" OF SILT FENCE. SILT FENCE SHALL BE CHECKED AFTER EACH STORM EVENT.
 4. POSTS SHALL BE CONSTRUCTED OF STEEL, EITHER "T" OR "U" TYPE, OR 2" HARDWOOD.
 5. FILTER CLOTH SHALL BE "FILTER X", "MIRAFI 100X", "LINKA T140N", "EXXON GTF 180" OR APPROVED EQUAL.

B SILT FENCE DETAIL
NO SCALE



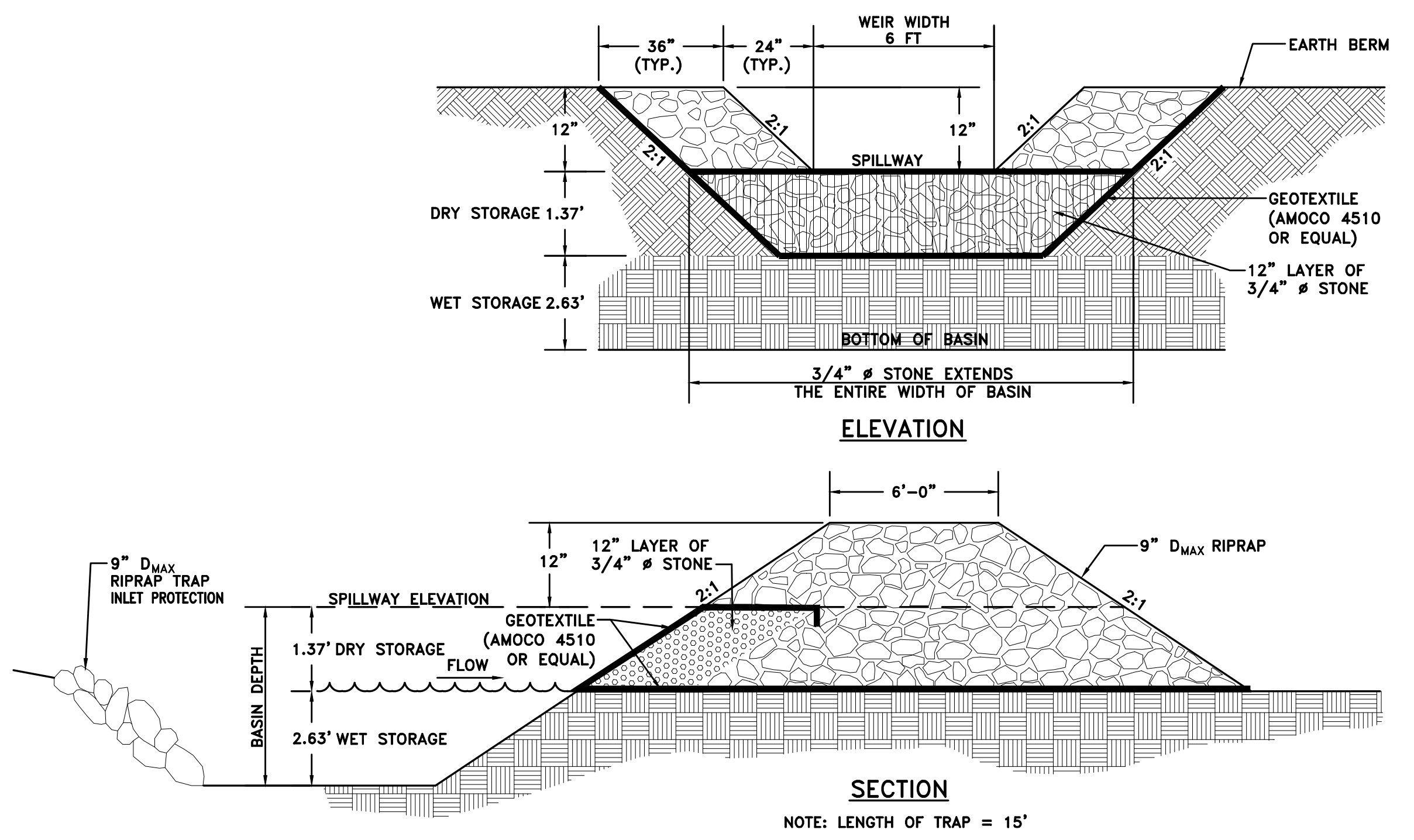
ENGLISH

$$L = \frac{160}{S}, \text{ WITH A } 50' \text{ MAX}$$

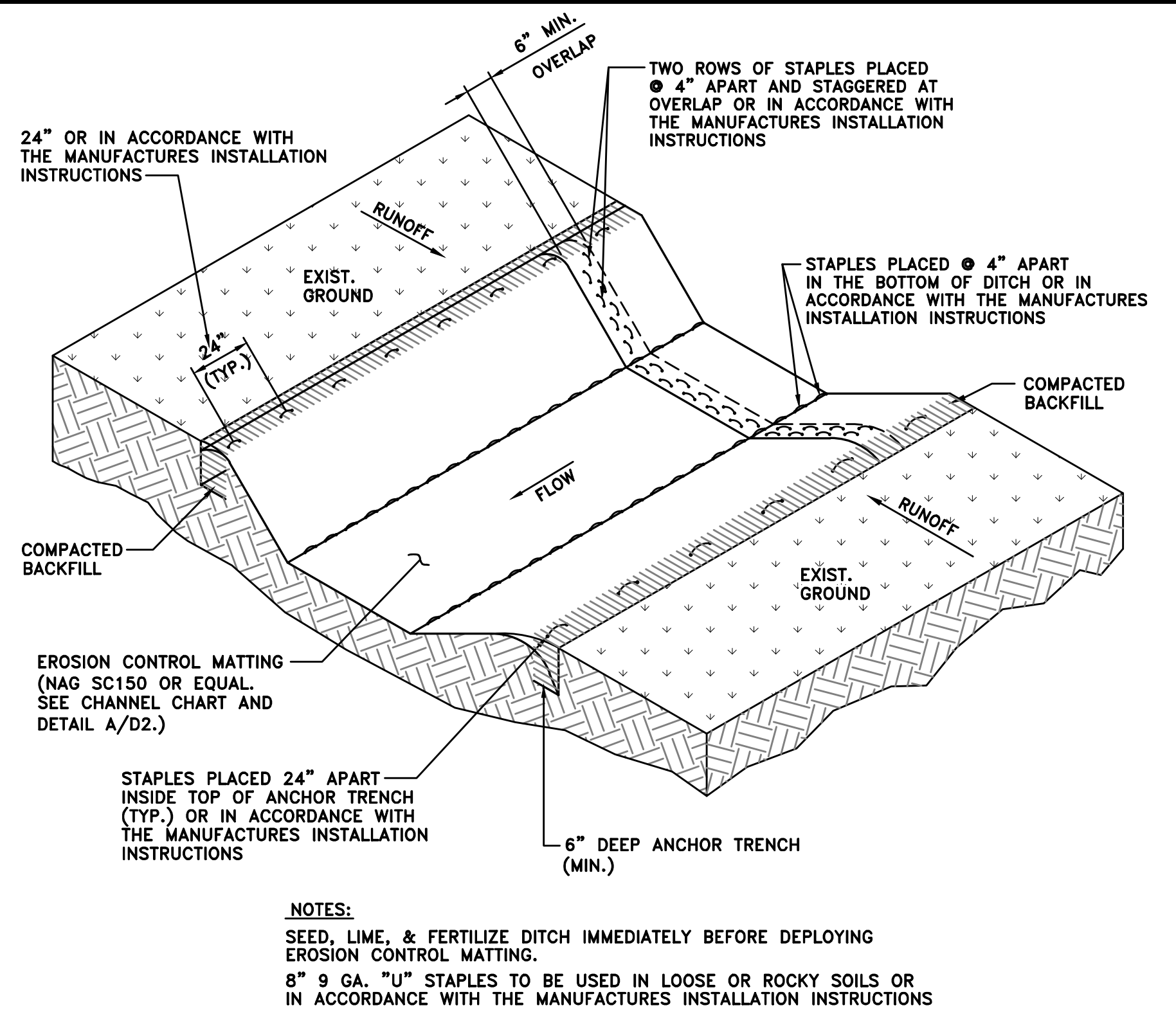
WHERE,
L = SPACING IN FEET
S = % SLOPE = $\frac{\text{RISE}}{\text{RUN}} \times 100$

- NOTES:**
1. SPACING OF PREFABRICATED DITCH CHECKS SHALL BE THE SAME AS STONE DITCH CHECKS.
 2. THE MINIMUM DITCH DEPTH IS 1'.
 3. ALL STONE DITCH CHECKS SHALL BE WRAPPED IN WOVEN GEOTEXTILE FABRIC.

C TRIANGULAR SILT DIKE DETAIL
NO SCALE

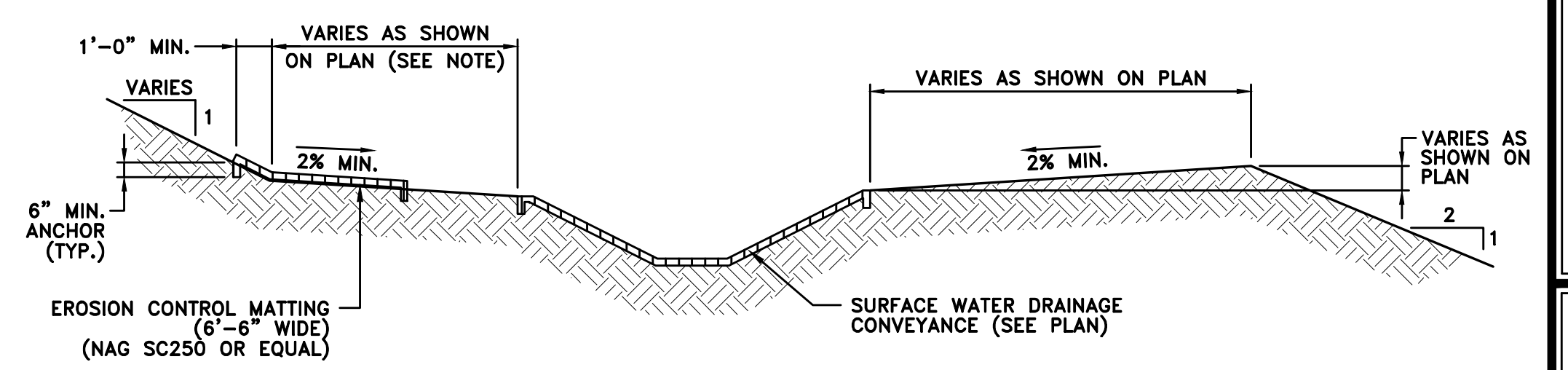


D TEMPORARY SEDIMENT TRAP
NO SCALE (ES-SED-TRAP.DWG)

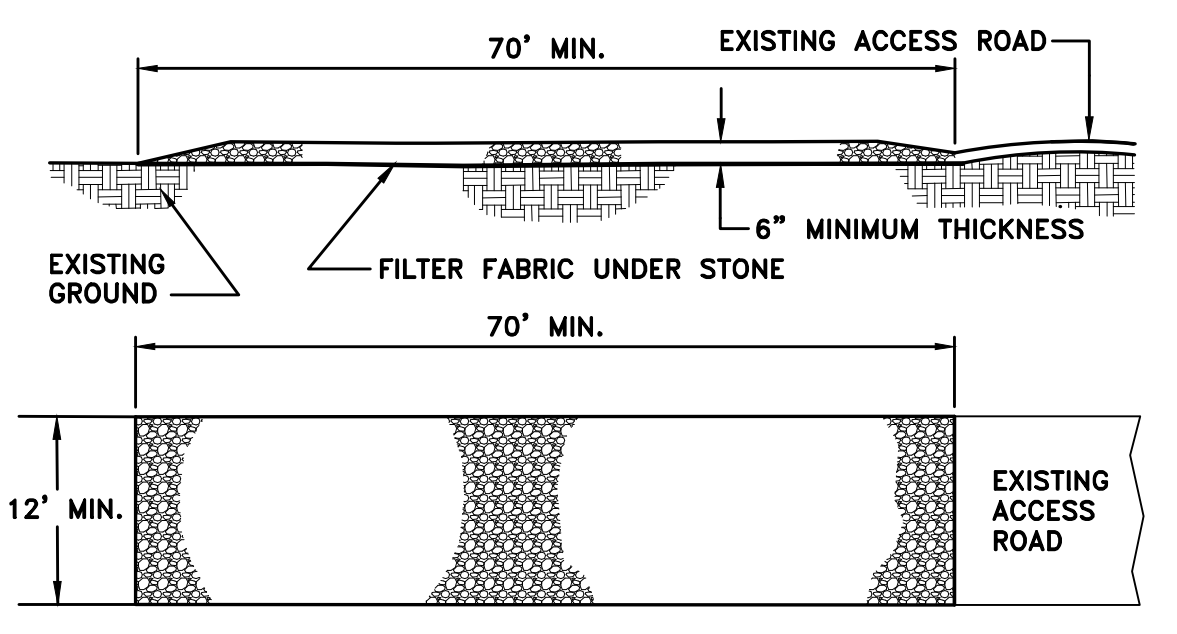


- NOTES:**
1. SEED, LIME, & FERTILIZE DITCH IMMEDIATELY BEFORE DEPLOYING EROSION CONTROL MATTING.
 2. 8" 9 GA. "U" STAPLES TO BE USED IN LOOSE OR ROCKY SOILS OR IN ACCORDANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS

E EROSION CONTROL MATTING DETAIL
NO SCALE



F ECM ON BENCH DETAIL
NO SCALE



- NOTES:**
1. A STABILIZED ENTRANCE PAD OF WASHED AASHTO No. 3 STONE SHALL BE LOCATED WHERE TRAFFIC WILL LEAVE OR ENTER THE CONSTRUCTION SITE ONTO A PUBLIC ROAD.
 2. FILTER FABRIC OR CRUSHER RUN MAY BE USED AS A BASE COURSE FOR THE CONSTRUCTION ENTRANCE.
 3. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC STREETS OR EXISTING PAVEMENT. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 4. ANY SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC STREETS MUST BE REMOVED IMMEDIATELY.
 5. WHEN APPROPRIATE, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING A PUBLIC STREET.

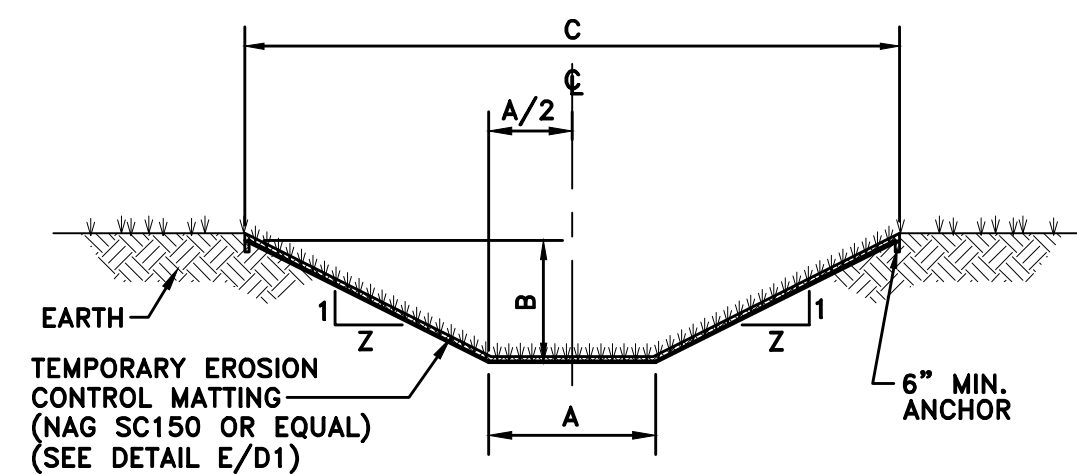
G STABILIZED CONSTRUCTION ENTRANCE DETAIL
NO SCALE

NO.	DATE	REVISION

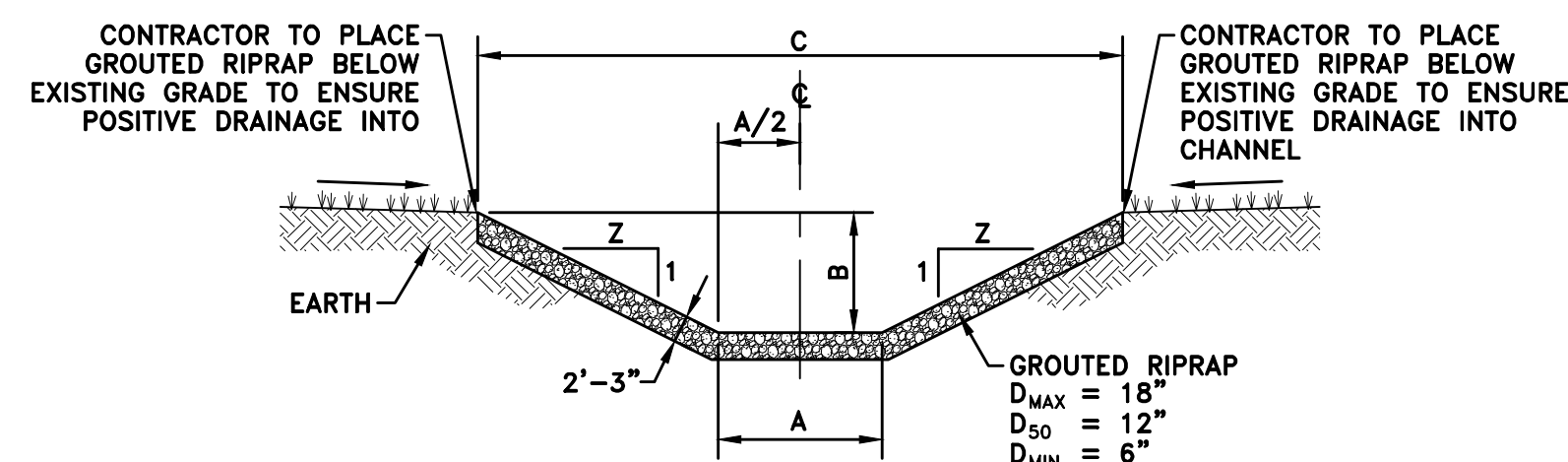
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OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
MISCELLANEOUS DETAILS
PIERPOINT REFUSE PILE
WYOMING COUNTY, WEST VIRGINIA

Project No. 01-5055-002
Drawn: WLG
Checked: EMP
Approved: WJS
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Date: 1-31-2014
CAD File # *-MISC-DETAILS



NOTE: INSTALL EROSION CONTROL MATTING PER MANUFACTURER'S RECOMMENDATIONS.
TYPICAL GRASS LINED SECTION (TYPE 1)



TYPICAL GROUDED RIPRAP SECTION (TYPE 2)

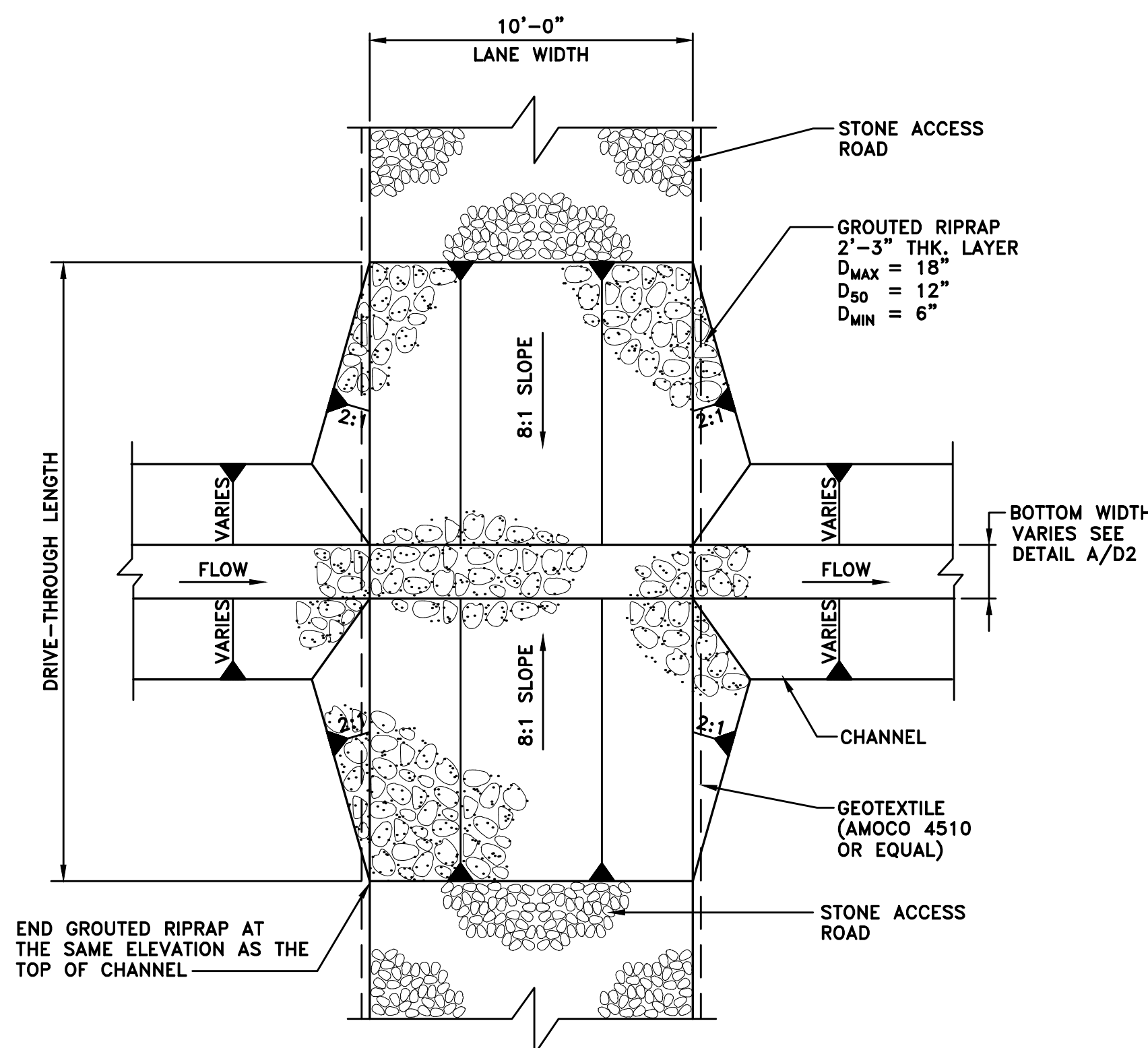
CHANNEL TYPE	LINING	BEG STA	END STA	LENGTH	A	B	C	Z	
A	2	GRR	0+00	0+88.63	88.63	6	2	14	2
A	2	GRR	0+88.63	0+99.37	10.74	TRANS.	2	TRANS.	2
A	2	GRR	0+99.37	1+10.11	10.74	10	2	TRANS.	TRANS.
A	2	DRIVE	1+10.11	1+20.31	10.20	10	2	42	8
A	2	GRR	1+20.31	1+30.31	10	10	2	TRANS.	TRANS.
A	2	GRR	1+30.31	1+50	19.69	10	2	18	2
END CHANNEL - A STANDARD SECTION BEGIN OPTIONAL SOIL BORROW SECTION									
A	2	GRR	1+50	1+70	20	TRANS.	2	TRANS.	2
A	2	GRR	1+70	3+50	180	6	2	14	2
B	2	GRR	0+00	0+20	20	4	1.5	10	2
B	1	GL	0+20	5+40	520	4	1.5	10	2
B	1	GL	5+40	5+60	20	TRANS.	1.5	TRANS.	2
B	1	GL	5+60	8+35	275	0	1.5	6	2

NOTE: IF CHANNEL IS CUT TO BEDROCK, LINING IS REQUIRED ON OUTSIDE SLOPES ONLY. ENTIRE OUTSIDE SLOPE SHALL BE LINED.

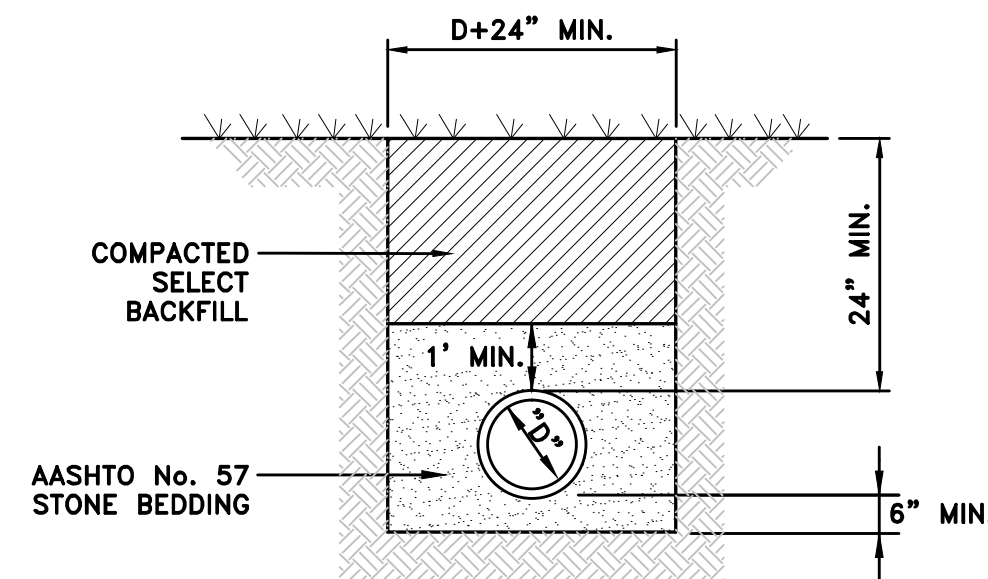
GL = GRASS LINED CHANNEL
 GRR = GROUDED RIPRAP CHANNEL
 TRANS. = TRANSITION

CHANNEL CHART

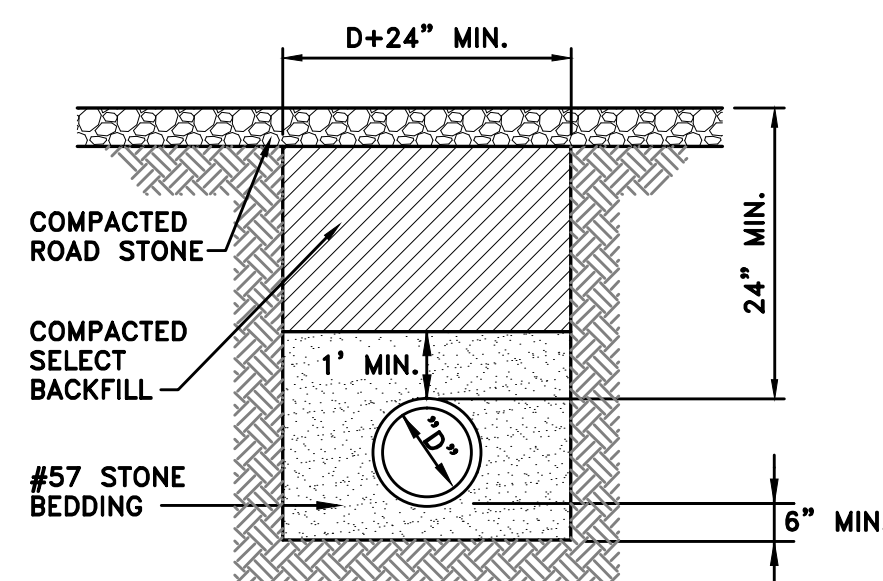
(A) CHANNEL DETAILS
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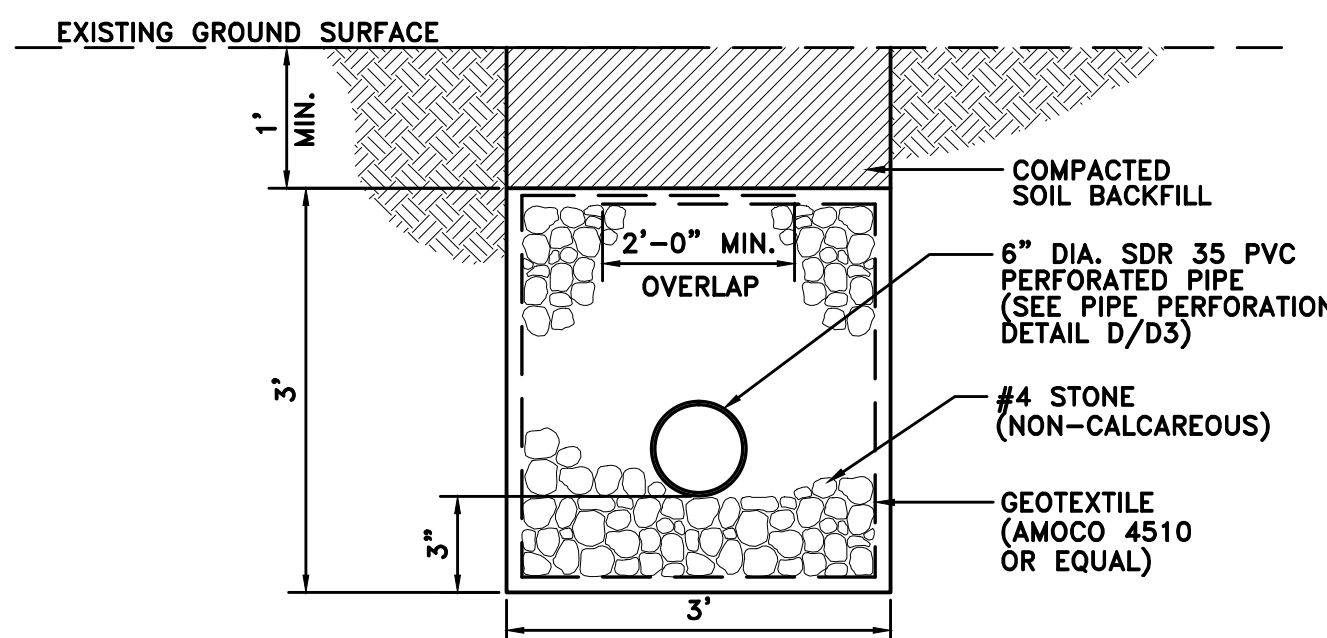
(B) GROUDED RIPRAP DRIVE-THROUGH DETAIL
 NO SCALE



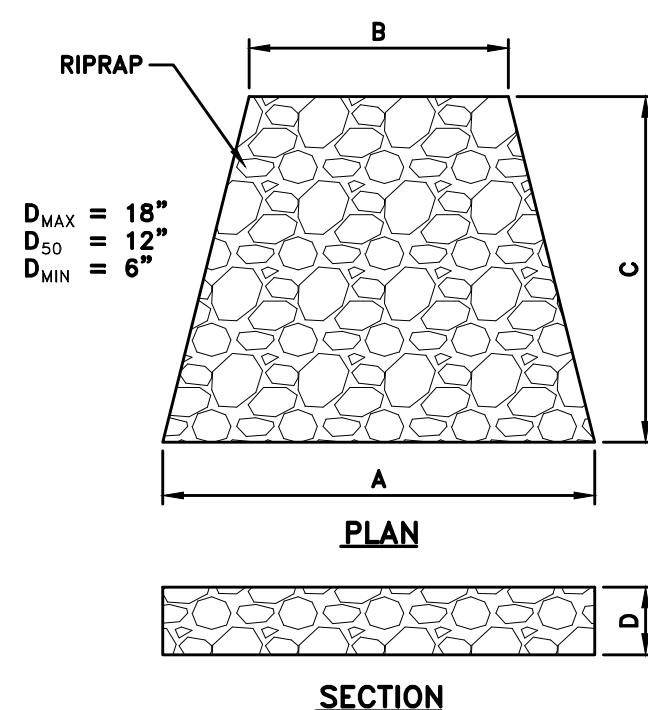
(C) PIPE BEDDING DETAIL
 NO SCALE



(D) ROAD CROSSING PIPE BEDDING DETAIL
 NO SCALE



(E) 6" UNDERDRAIN DETAIL
 NO SCALE



RR APRON #	A	B	C	D
APRON #1	12'-0"	10'-0"	10'-0"	2'-3"
APRON #2	12'-0"	10'-0"	10'-0"	2'-3"
APRON #3	12'-0"	10'-0"	10'-0"	2'-3"

(F) RIPRAP APRON DETAIL
 NO SCALE

1.6" BLACK LETTERS (TYP.) → For Info on NPDES Storm Water Permit
 0.8" BLACK LETTERS (TYP.) → To comment on Sediment Control Plan:
 Call: 800-654-5227
 OR
 PLAN@WVDEP.ORG
 DEP 601 57th Street, SE, Charleston WV 25304
 Application date: 1-31-2014

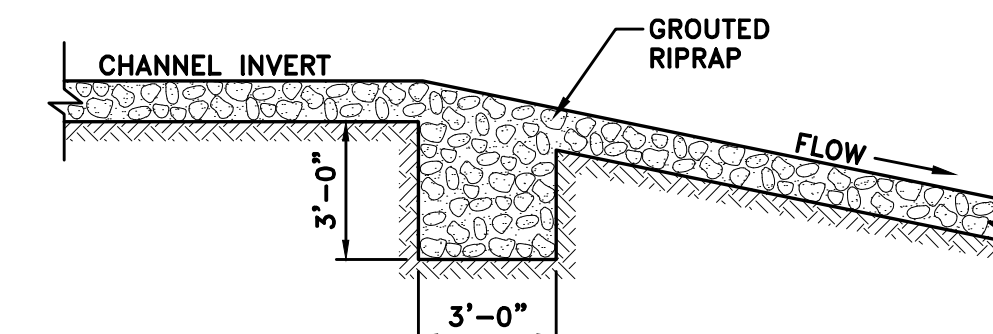
WHITE BACKGROUND →

WV DEPARTMENT OF ENVIRONMENTAL PROTECTION

Pierpont Refuse Pile
 DEP 16029

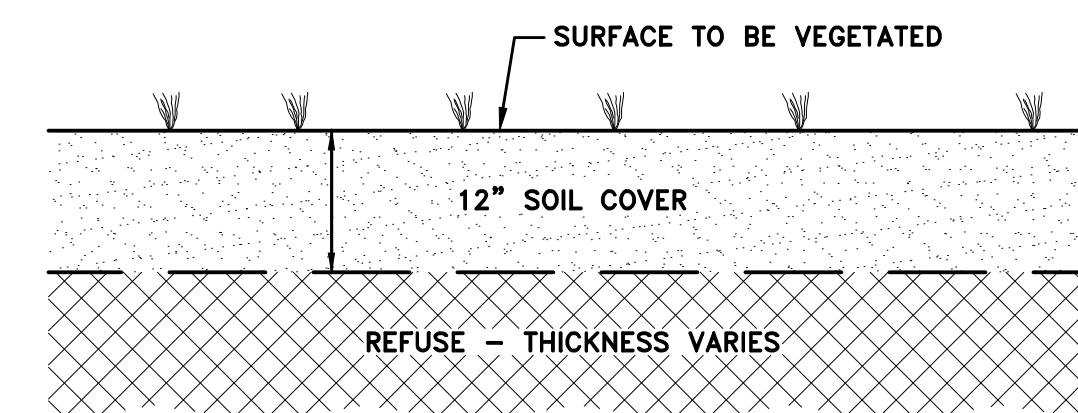
SIGN SIZE SHALL BE AT LEAST 24" x 24" & POSTED AT LEAST 36" ABOVE GROUND.

(G) PUBLIC NOTICE SIGN
 NO SCALE



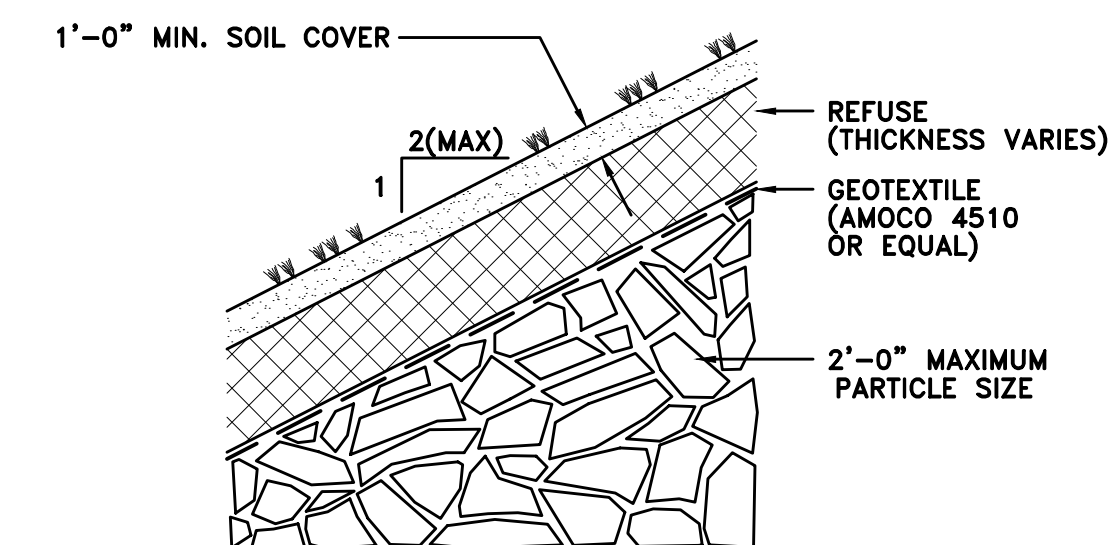
NOTES:
 1. EXTEND GROUDED ANCHOR Laterally FULL WIDTH OF CHANNEL.
 2. INSTALL GROUDED ANCHORS AT BEGINNING AND END OF GROUDED RIPRAP CHANNEL SECTIONS.
 3. INSTALL GROUDED ANCHORS EVERY 50' ALONG ENTIRE LENGTH OF GROUDED RIPRAP CHANNEL SECTIONS.

(H) GROUDED RIPRAP ANCHOR DETAIL
 NO SCALE

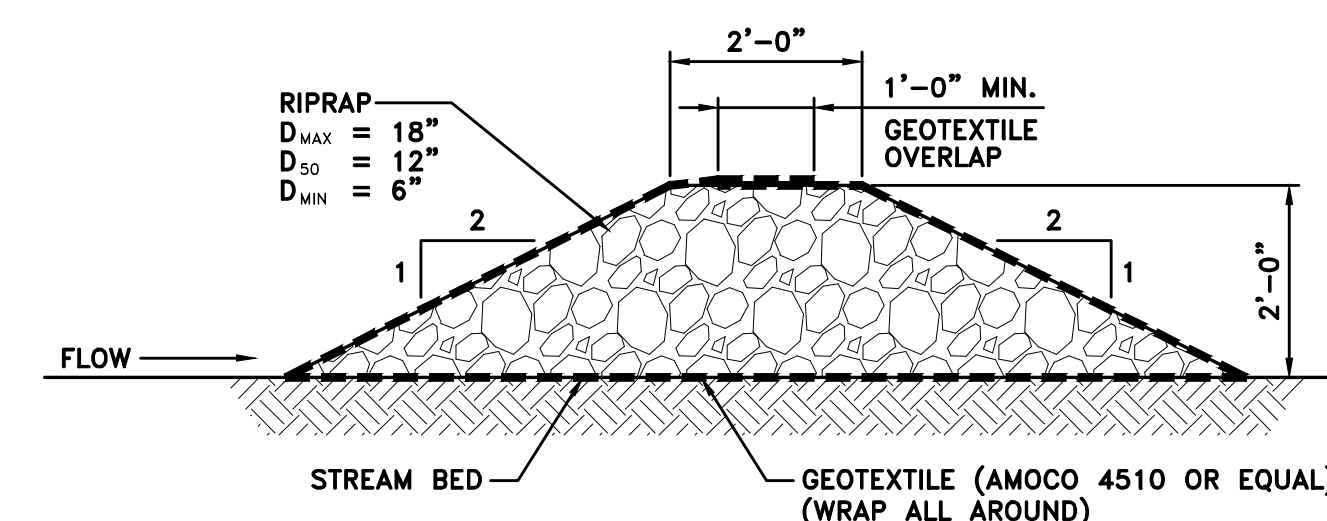


NOTES:
 1. REGRADED OR BARE AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL RECEIVE A 12" SOIL COVER LAYER.
 2. SOIL COVER THICKNESS UNDER CHANNELS SHALL BE 18" MIN.

(I) SOIL COVER DETAIL
 NO SCALE



(J) RUBBLE DISPOSAL DETAIL
 NO SCALE



(K) ROCK CHECK DAM DETAIL
 NO SCALE

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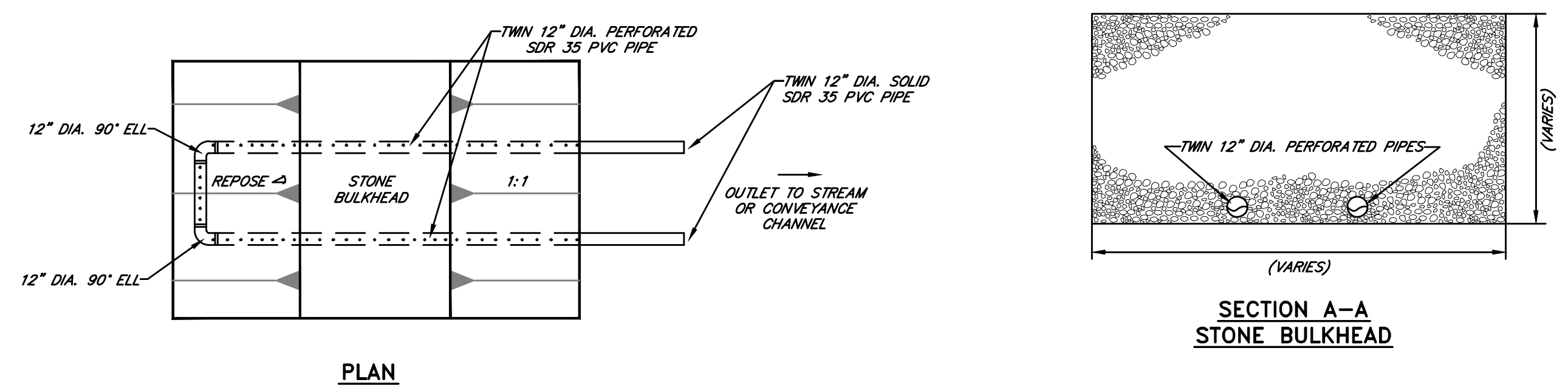
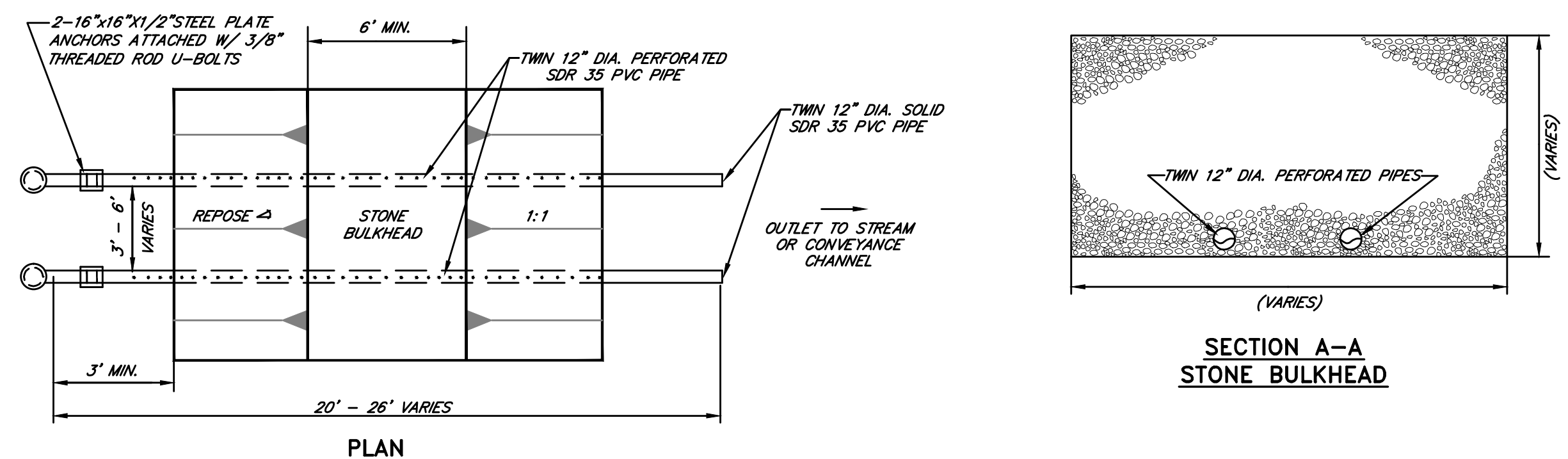
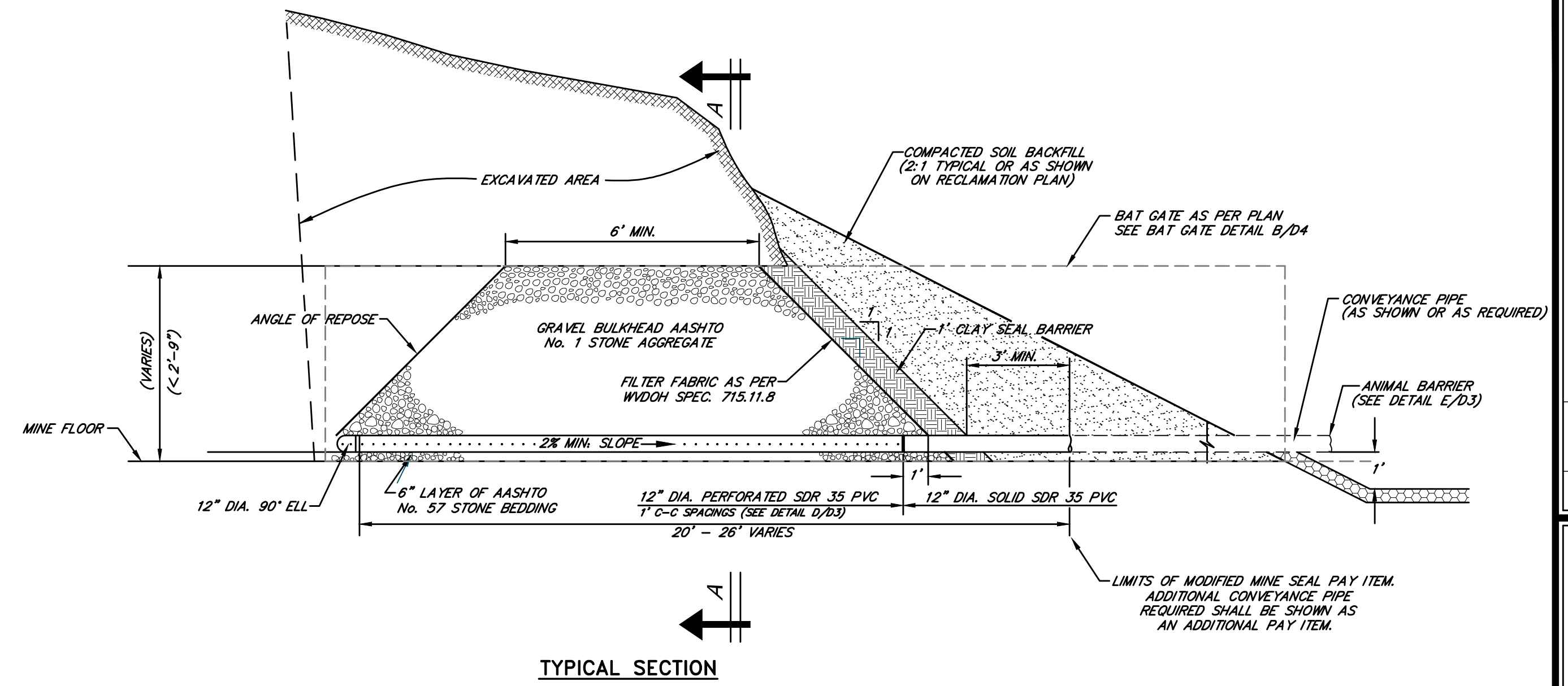
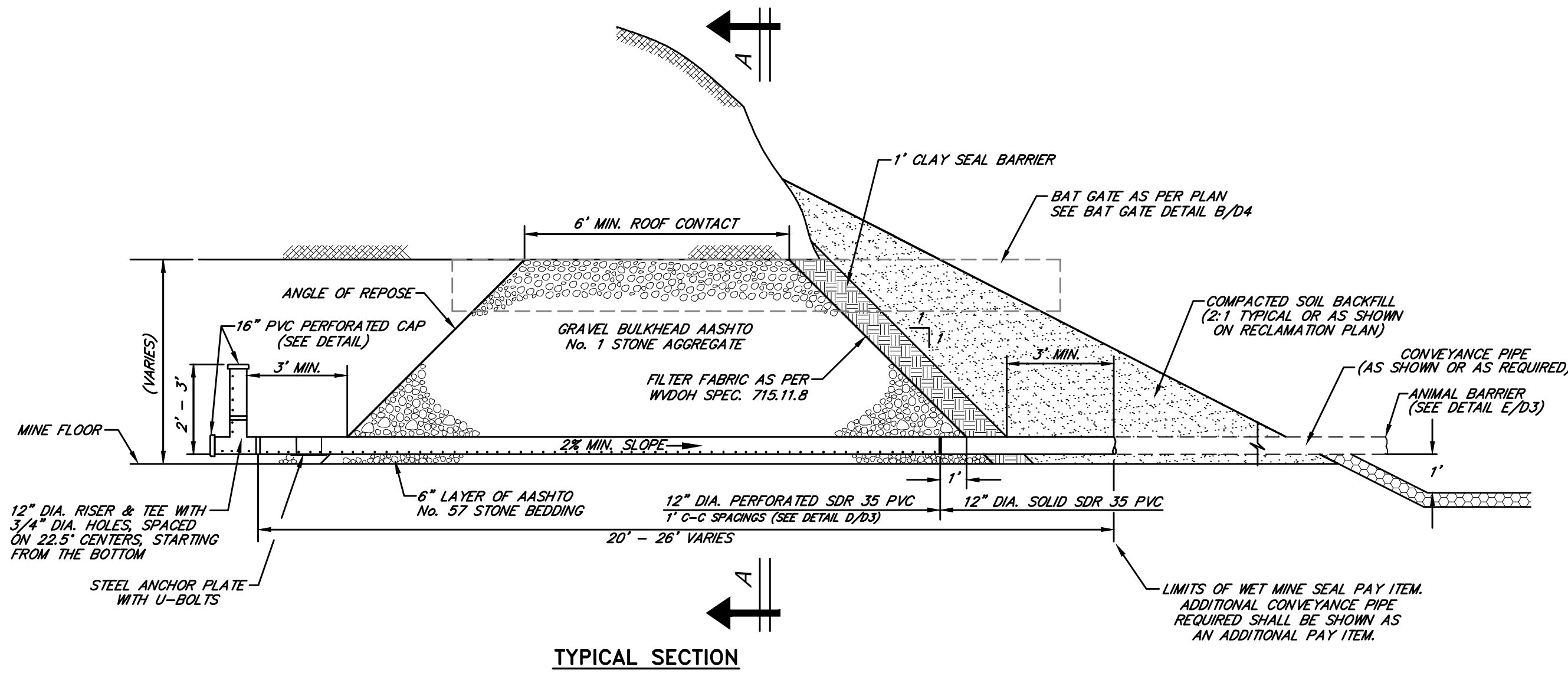
MISCELLANEOUS DETAILS
 PIERPONT REFUSE PILE
 WYOMING COUNTY, WEST VIRGINIA

Project No. 01-5055-002
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 Checked: EMP
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D2

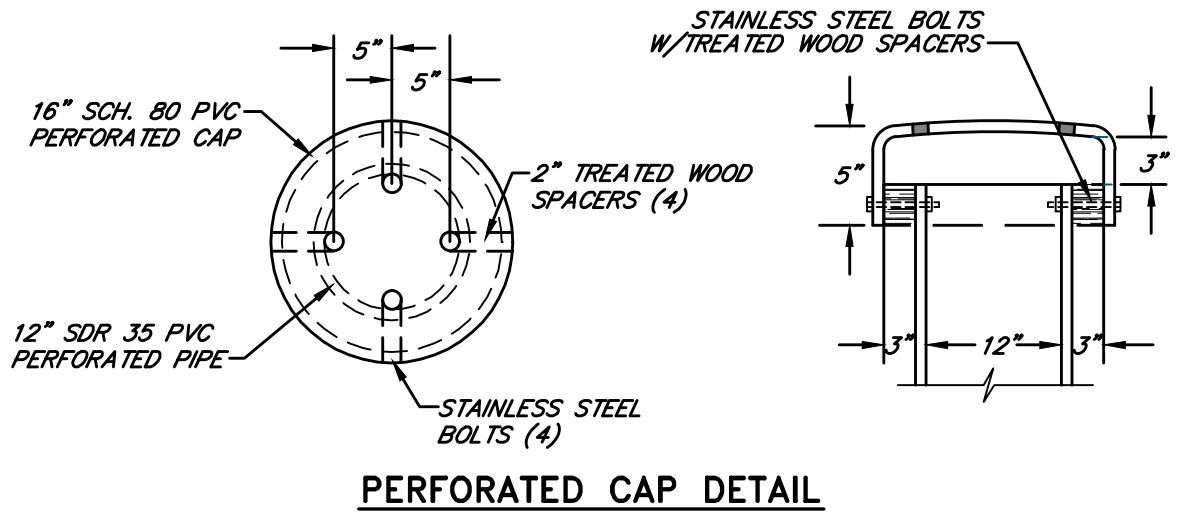
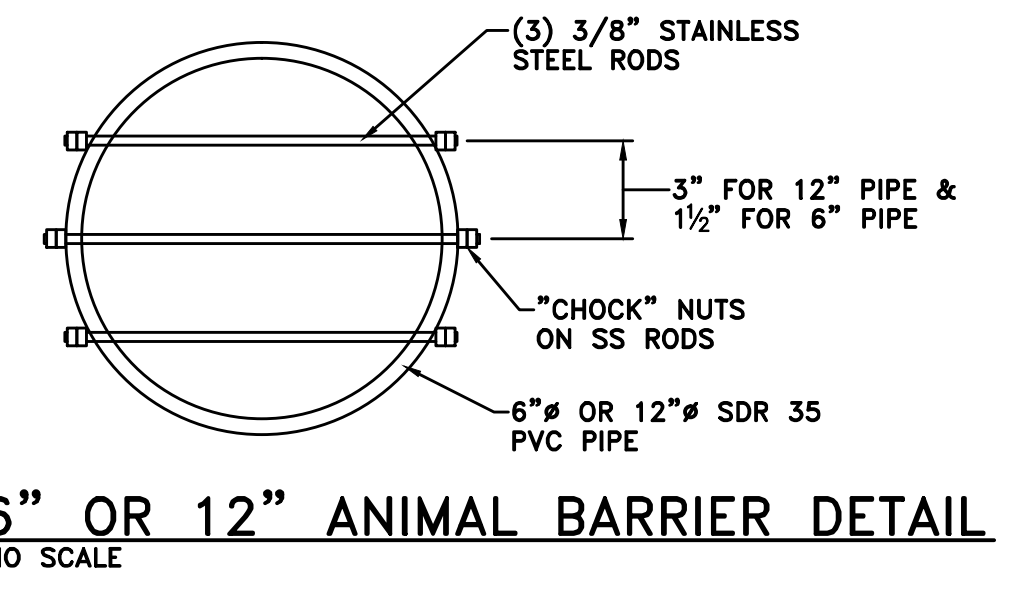
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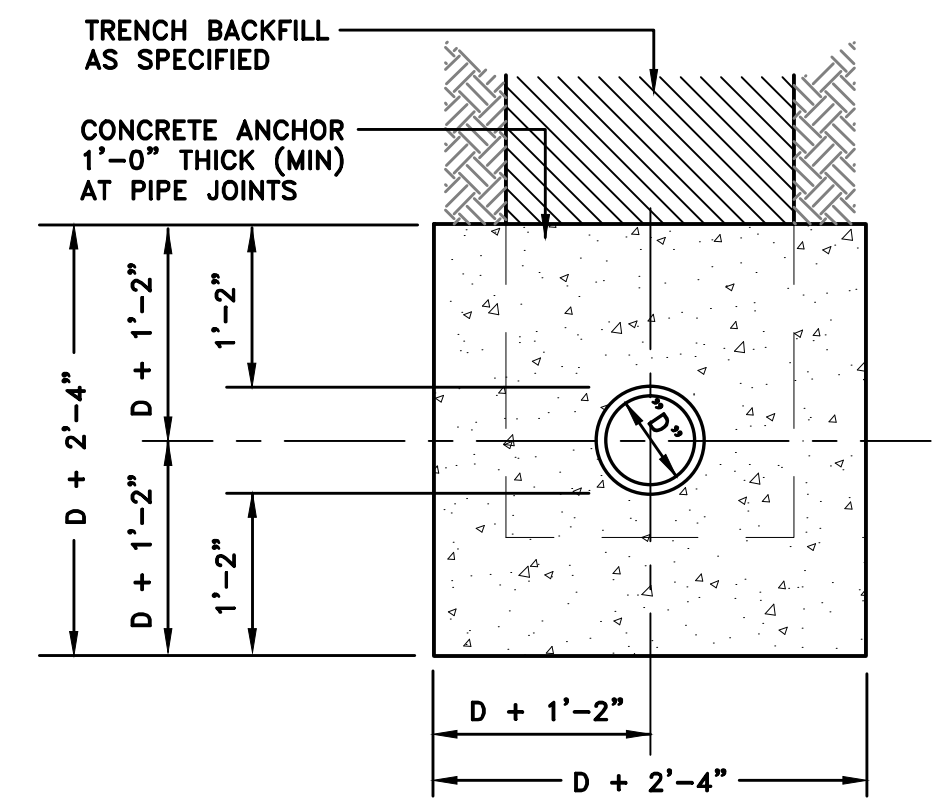


MINE SEAL BACKFILL NOTES:
 ENTRY STABILIZATION SHALL BE ACCOMPLISHED BY BACKFILLING WITH NON-CALCAREOUS STONE.
 BACKFILLING SHALL OCCUR AFTER INSTALLATION OF DRAIN IS ACCEPTED BY THE ENGINEER.
 THE ENTRY SHALL BE FILLED WITH STONE TO A DEPTH ALLOWING A MINIMUM OF 6 LINEAR FEET OF CONTACT WITH THE MINE ROOF OR TOP OF COAL SEAM.
 AFTER ACCEPTANCE OF BACKFILLING BY THE ENGINEER, THE CLAY SEAL SHALL BE INSTALLED AND THE ENTIRE AREA BACKFILLED, GRADED, SEEDED AND MULCHED.

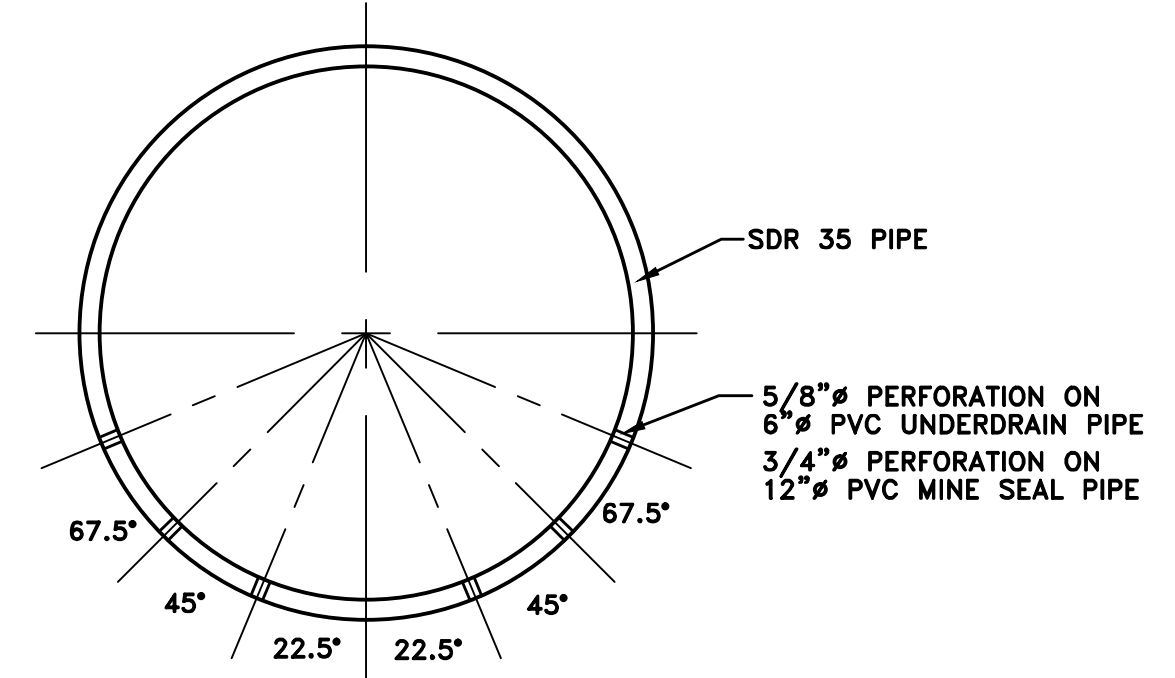
MODIFIED WET MINE SEAL WITH CONVEYANCE PIPE DETAIL
 NO SCALE



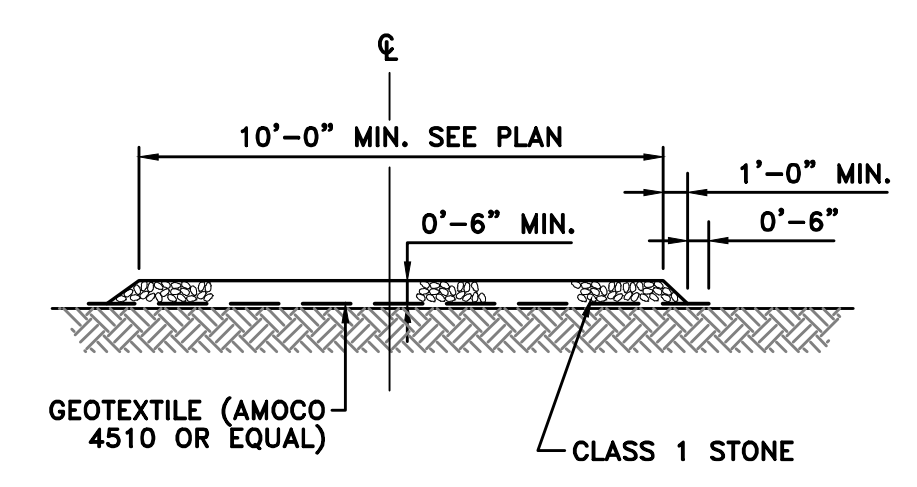
WET BAT GATE MINE SEAL WITH CONVEYANCE PIPE DETAIL
 NO SCALE



CONCRETE ANCHOR DETAIL
 NO SCALE



PIPE PERFORATION DETAIL
 NO SCALE



ACCESS ROAD RESURFACING DETAIL
 NO SCALE

- NOTES:**
- ON 6" PVC PIPE ALL PERFORATIONS SHALL BE 5/8" DIAMETER ON 6" C.C. SPACING ALONG LENGTH OF PIPE OR IN LIEU OF ROUND PERFORATIONS, USE SLOTTED PERFORATION WITH EQUIVALENT OPENING AREA.
 - ON 12" PVC PIPE ALL PERFORATIONS SHALL BE 3/4" DIAMETER ON 12" C.C. SPACING ALONG LENGTH OF PIPE OR IN LIEU OF ROUND PERFORATIONS, USE SLOTTED PERFORATION WITH EQUIVALENT OPENING AREA.
 - PIPE SHALL BE PLACED WITH PERFORATIONS DOWN.
 - ALL ANGLES TAKEN FROM VERTICAL.

NO.	DATE	REVISION

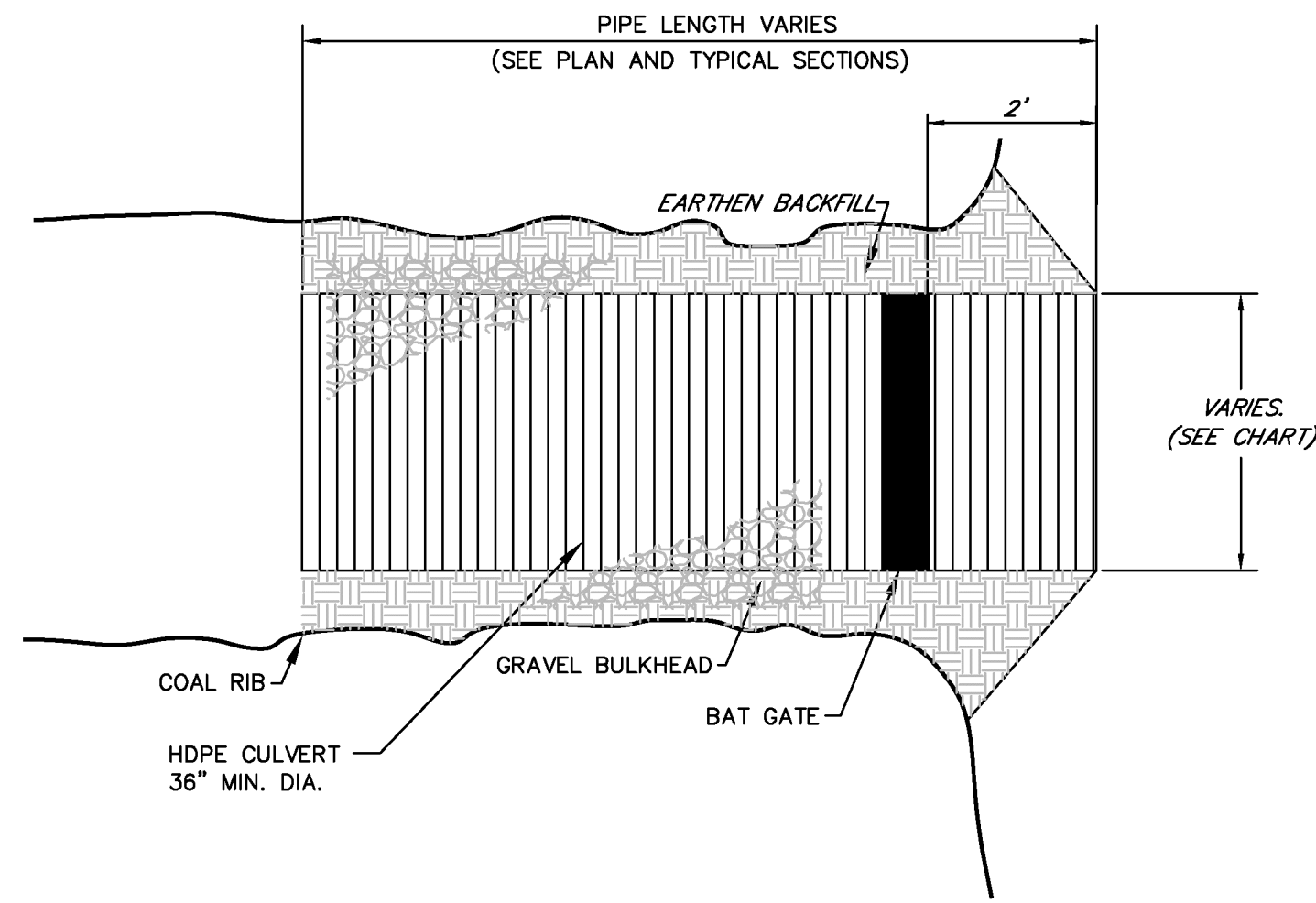
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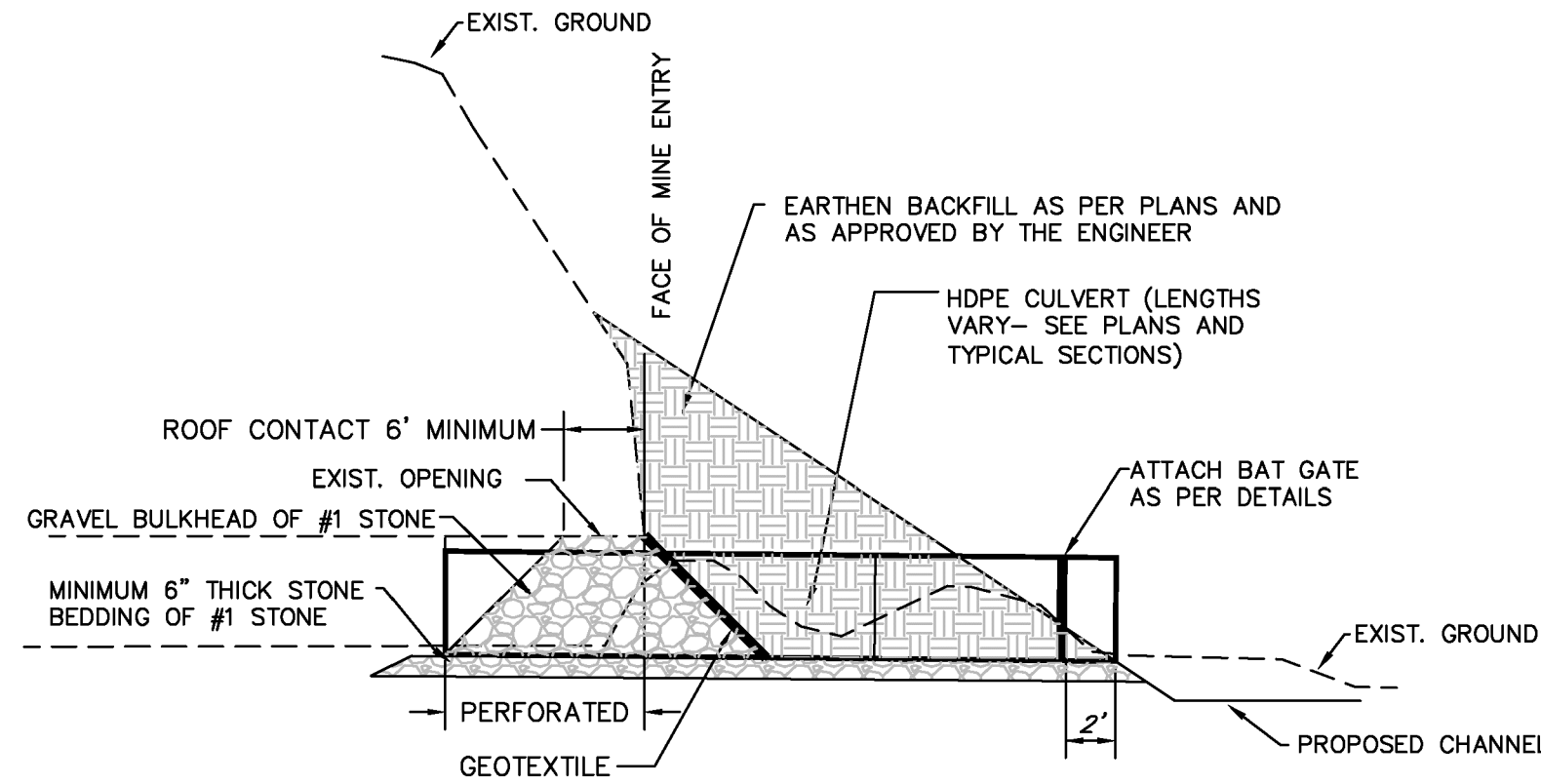
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D3

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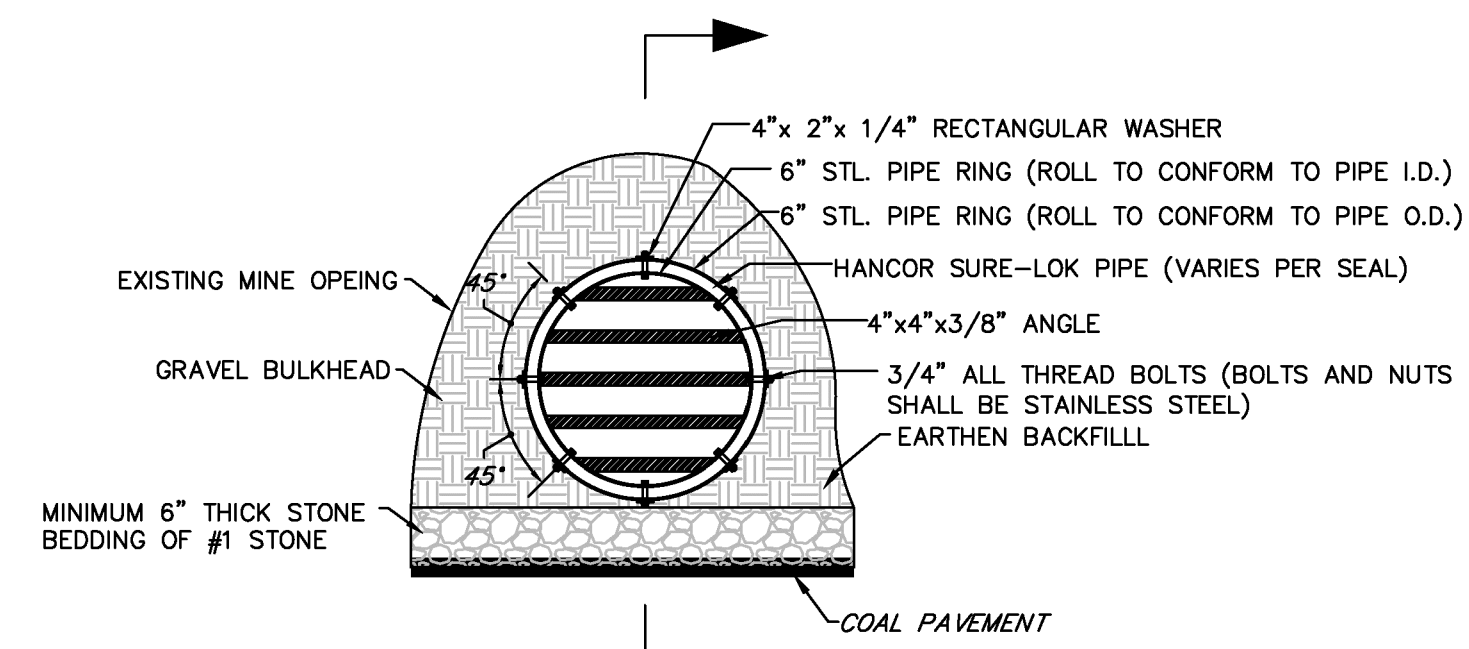


PLAN

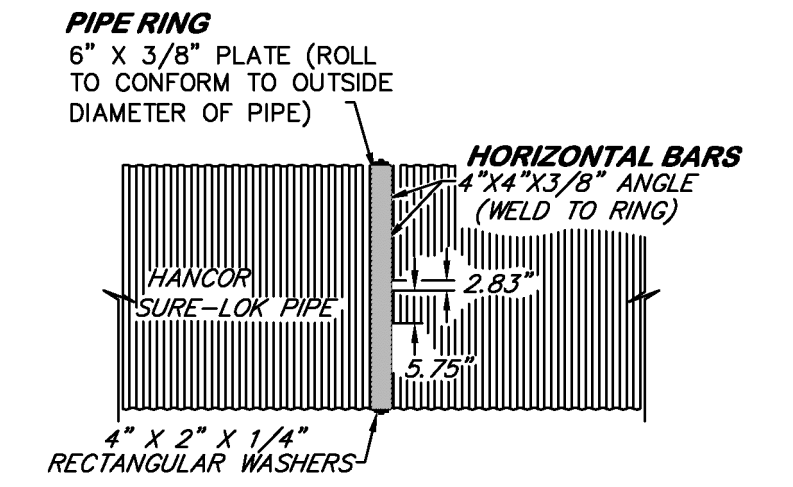


THE HDPE CULVERT SHALL BE INSTALLED AT A 2% MINIMUM GRADE, TYPICAL OF ALL.

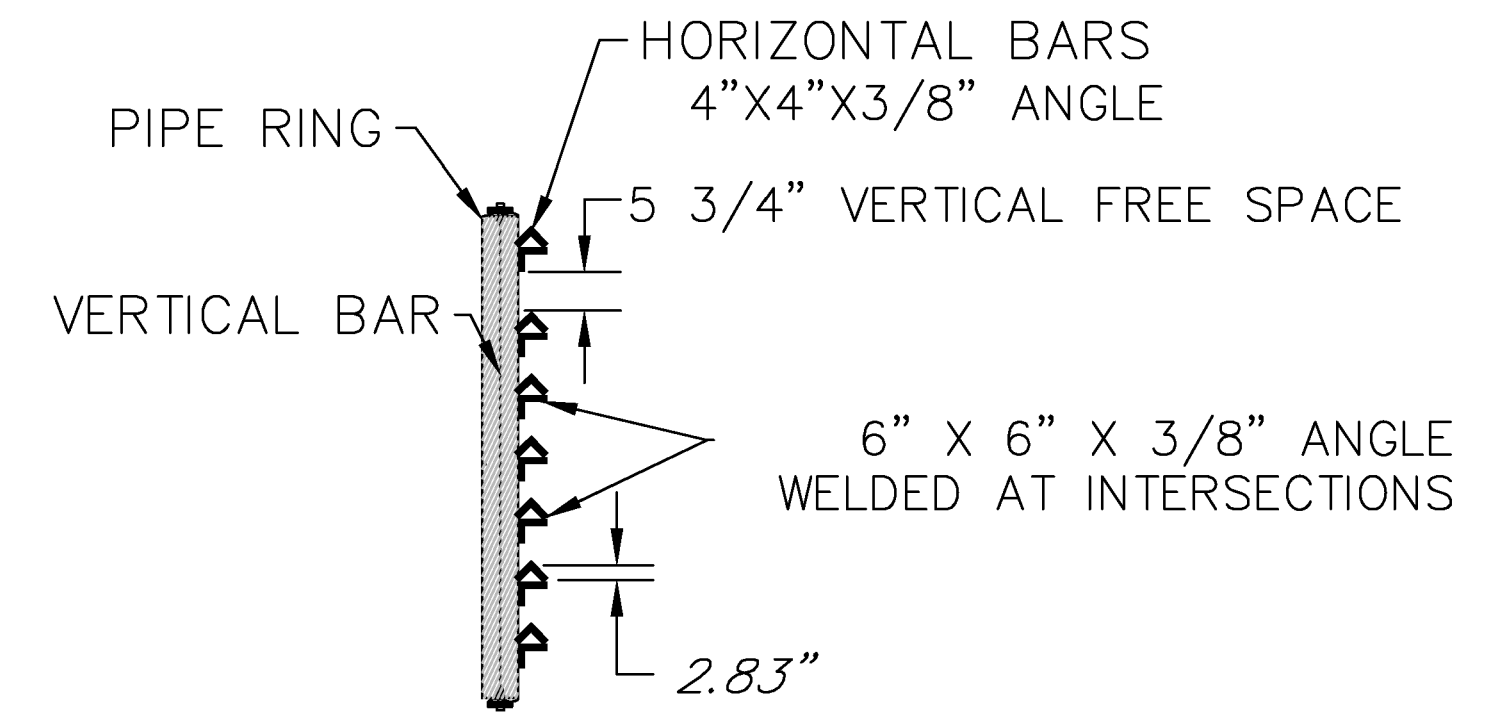
(A) BAT GATE MINE SEAL TYPICAL CONSTRUCTION DETAILS
NO SCALE (APPLICABLE TO ALL BAT GATES)



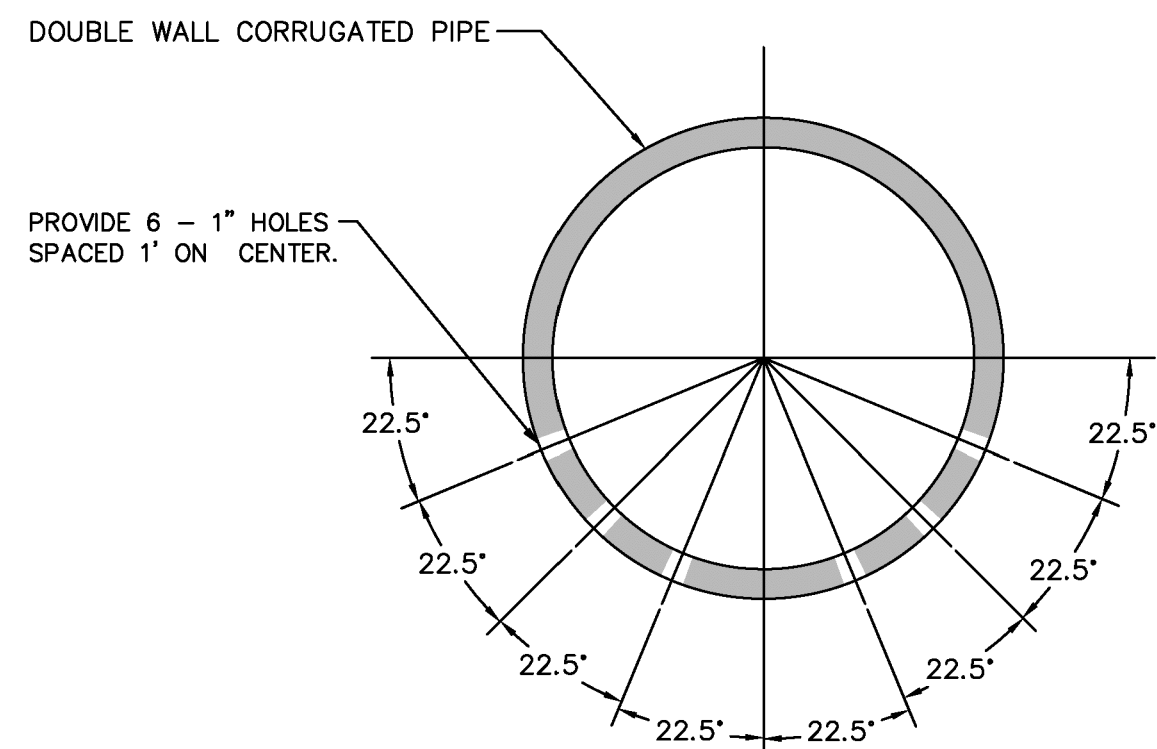
END VIEW



PIPE RING SECTION

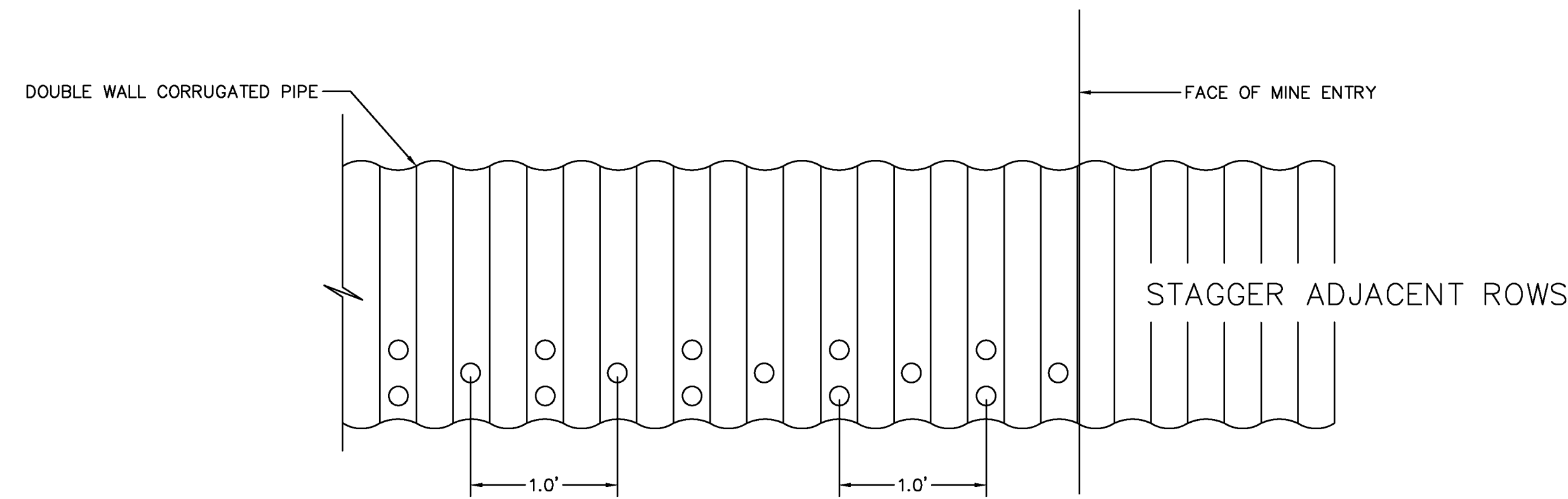


VERTICAL BAR SIDE VIEW

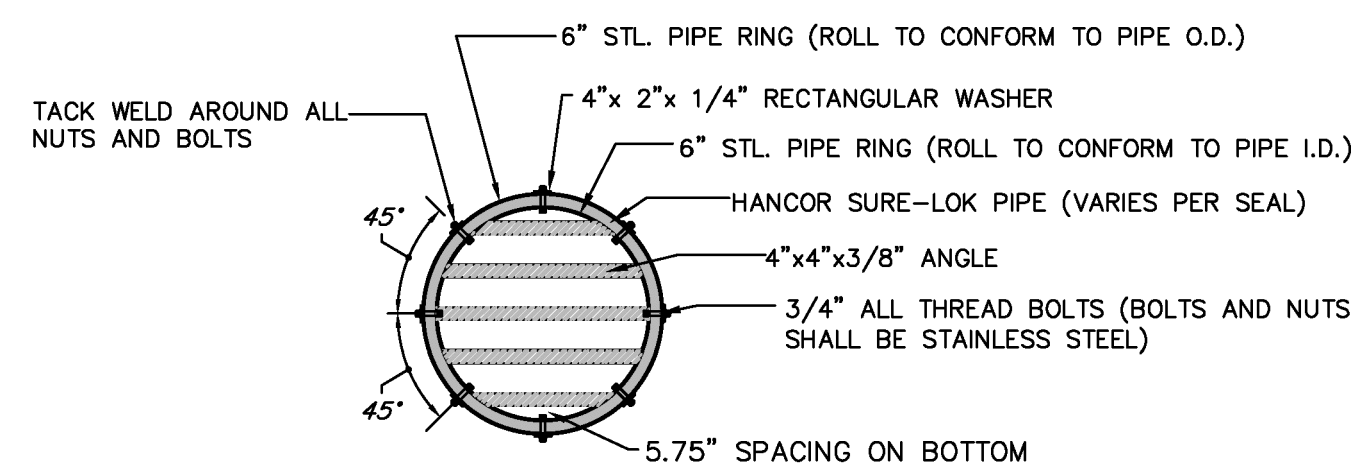


NOTE: PERFORATE ON PIPE WALLS NOT ON RIBS.

PERFORATION DETAIL



NOTE: PERFORATE ON PIPE WALLS NOT ON RIBS.



GATE DETAIL
(CULVERT 36"-42" DIA)

PIERPONT REFUSE PILE						
BAT GATE SIZING CHART						
PORTAL #	EXISTING OPENING		EXISTING OPENING	PROPOSED PIPE	PROPOSED #	PROPOSED OPENING
	WIDTH	HEIGHT	AREA (SQ. FT.)	SIZE (IN.)	PIPES	AREA (SQ. FT.)
1	4	X 2	8.00	36	1	7.07
2	2	X 1	2.00	36	1	7.07
3	2	X 2	4.00	36	1	7.07
4	20	X 2	40.00	36	5	35.35

(B) BAT GATE SIZING CHART
NO SCALE

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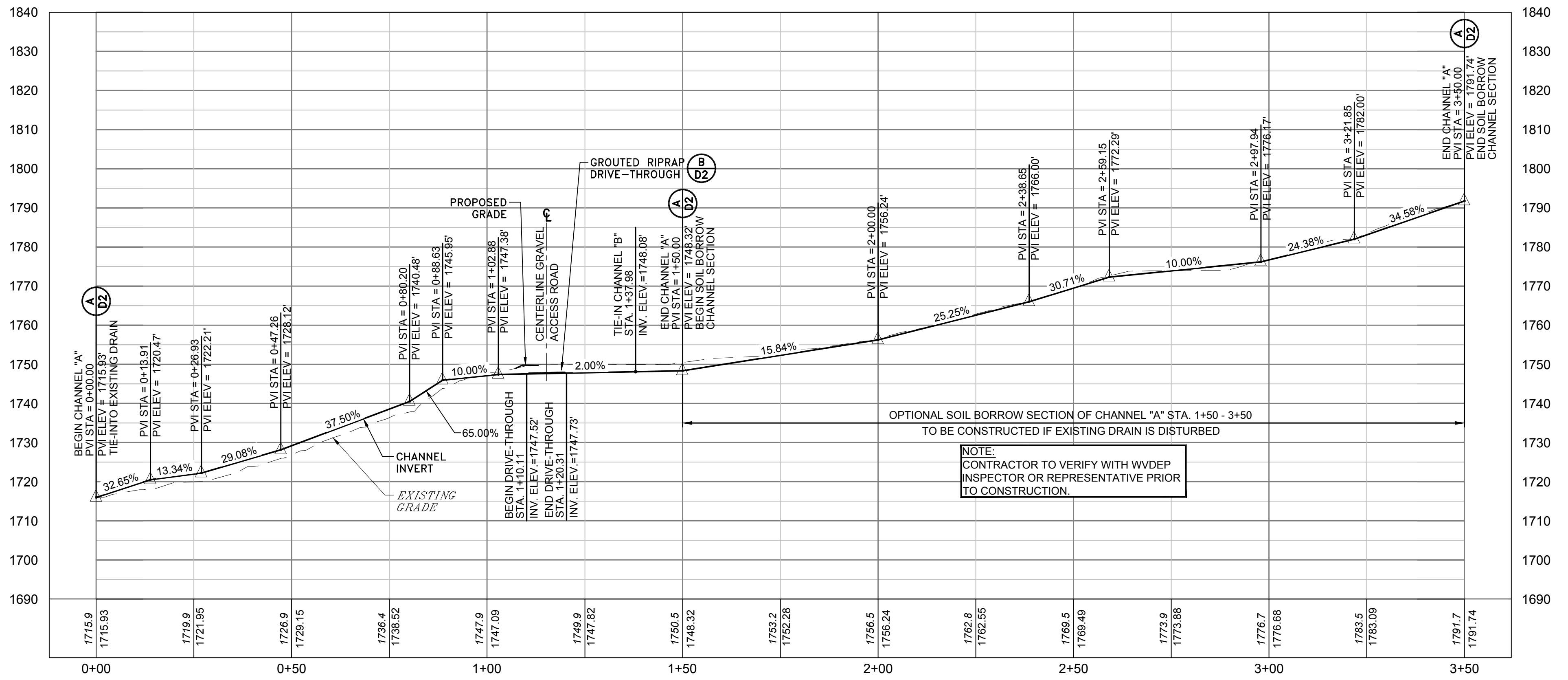
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MISCELLANEOUS DETAILS
PIERPONT REFUSE PILE
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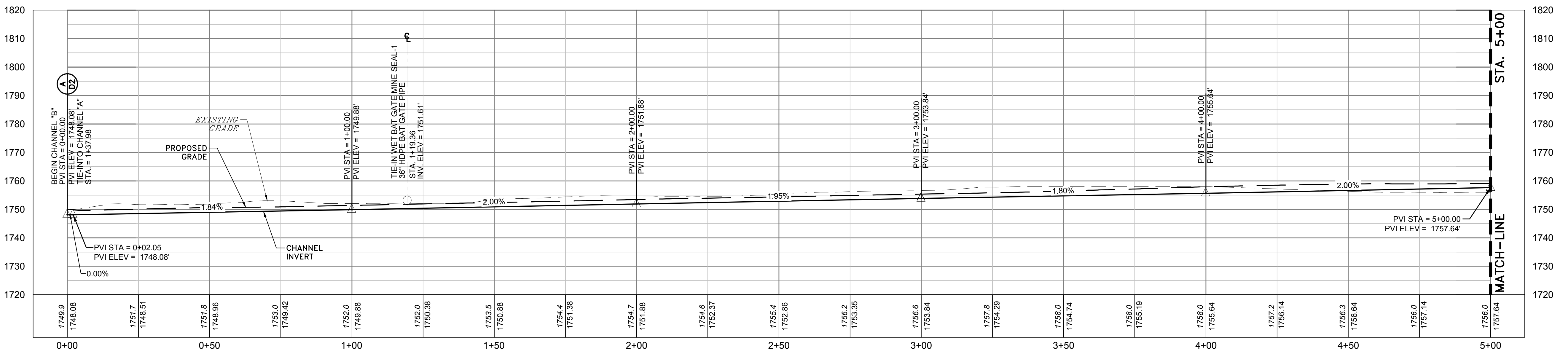
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D4

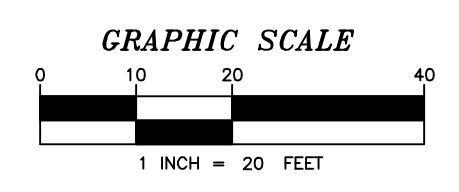
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A CHANNEL-A PROFILE
 STA. 0+00 TO STA. 3+50
 SCALE: 1" = 20' H&V



B CHANNEL-B PROFILE
 STA. 0+00 TO STA. 5+00
 SCALE: 1" = 20' H&V



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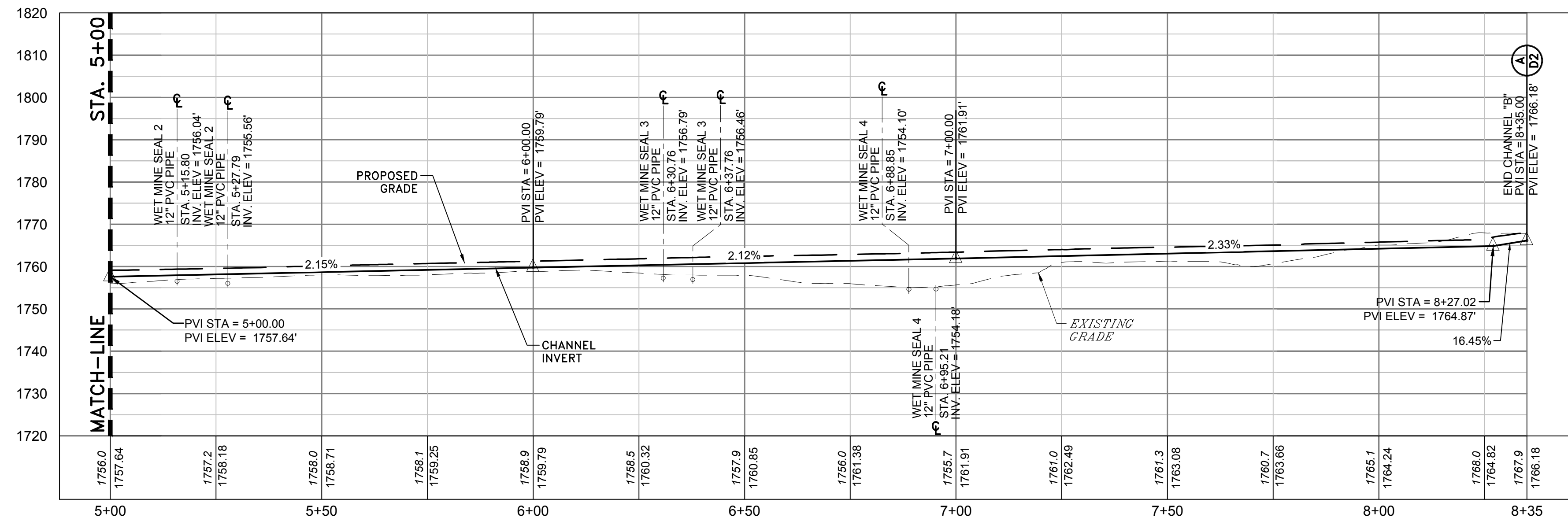
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
 CHANNEL PROFILES
 PIERPONT REFUSE PILE
 WYOMING COUNTY, WEST VIRGINIA

Project No. 01-5055-002

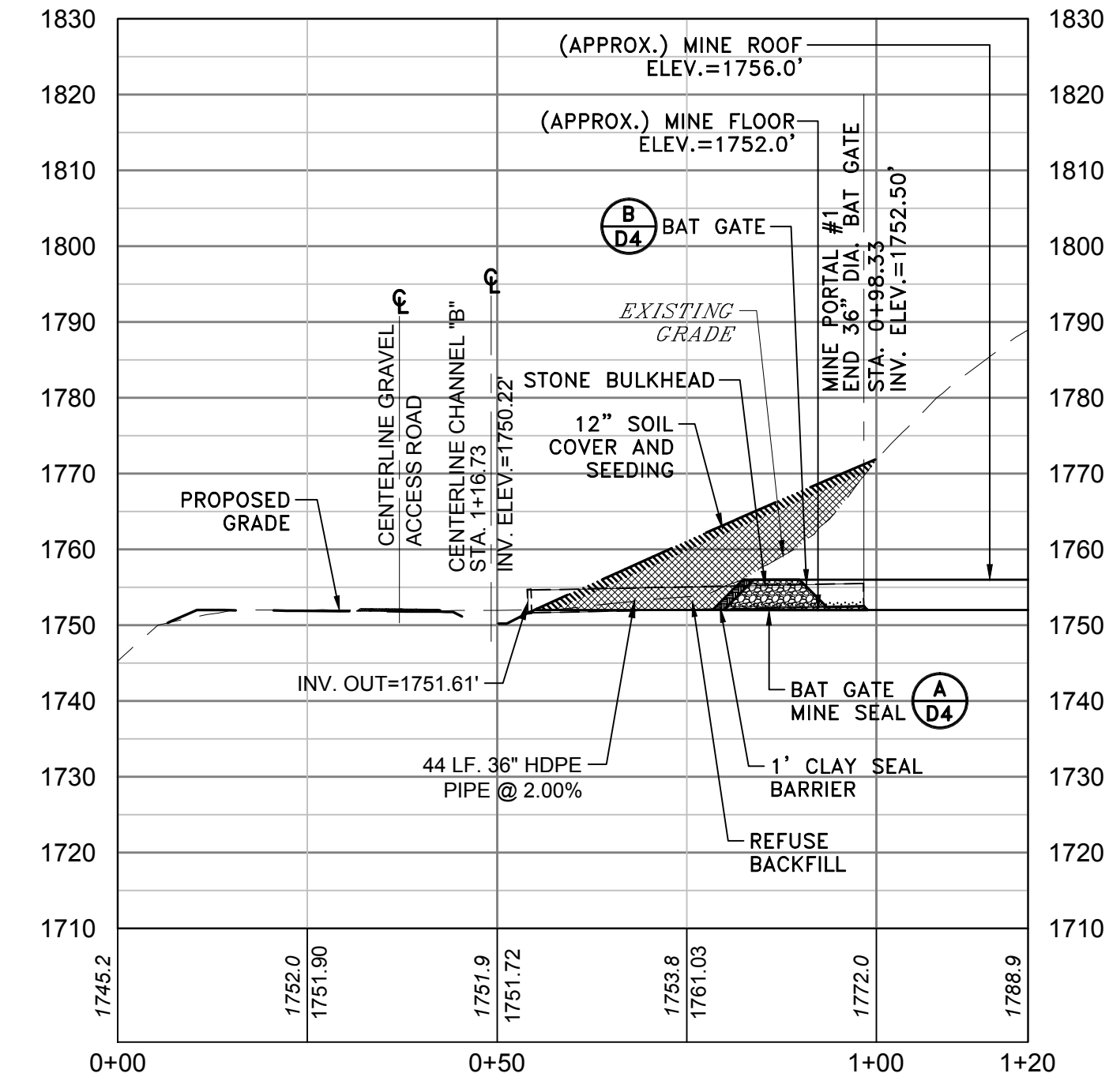
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P1

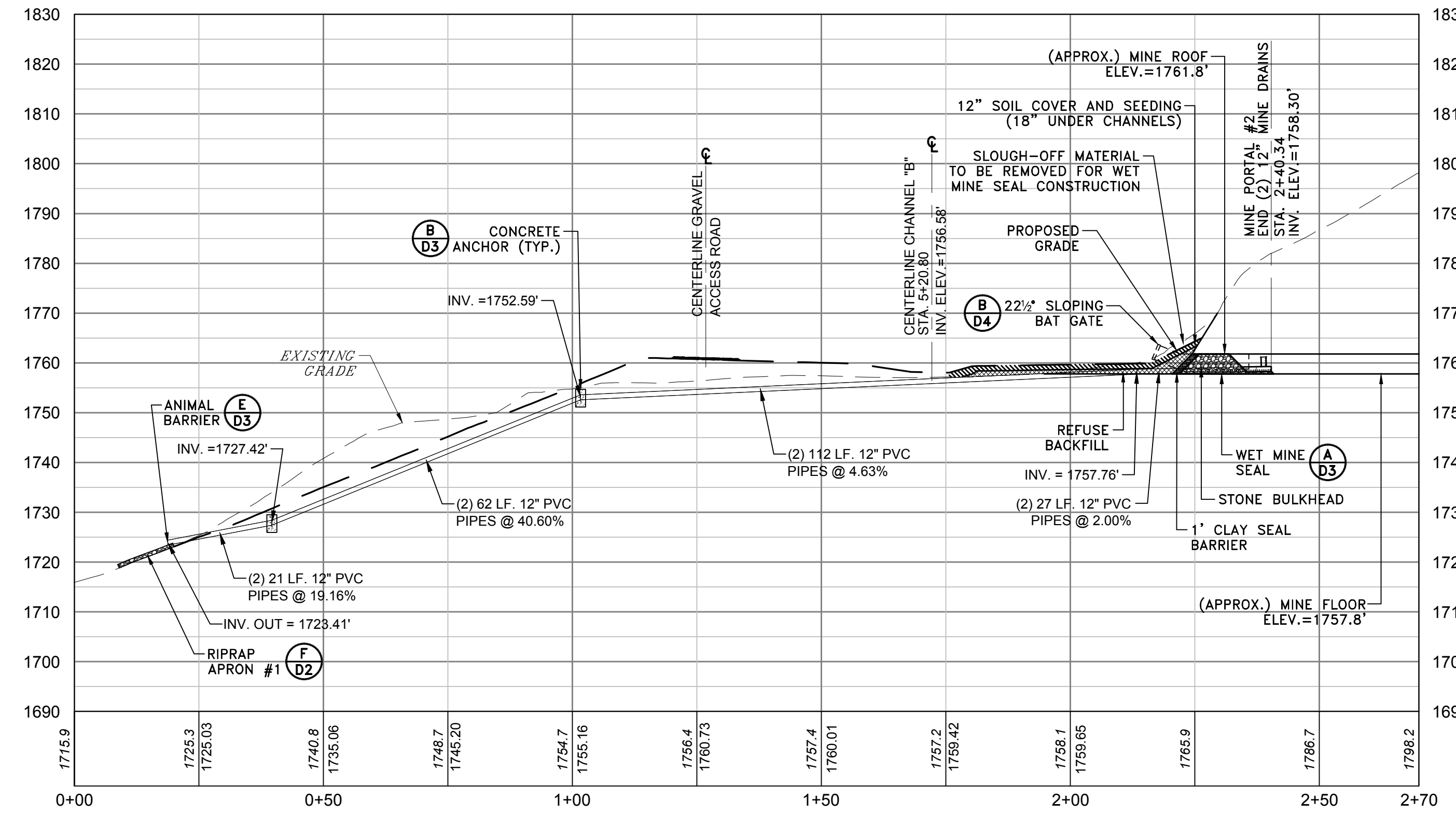
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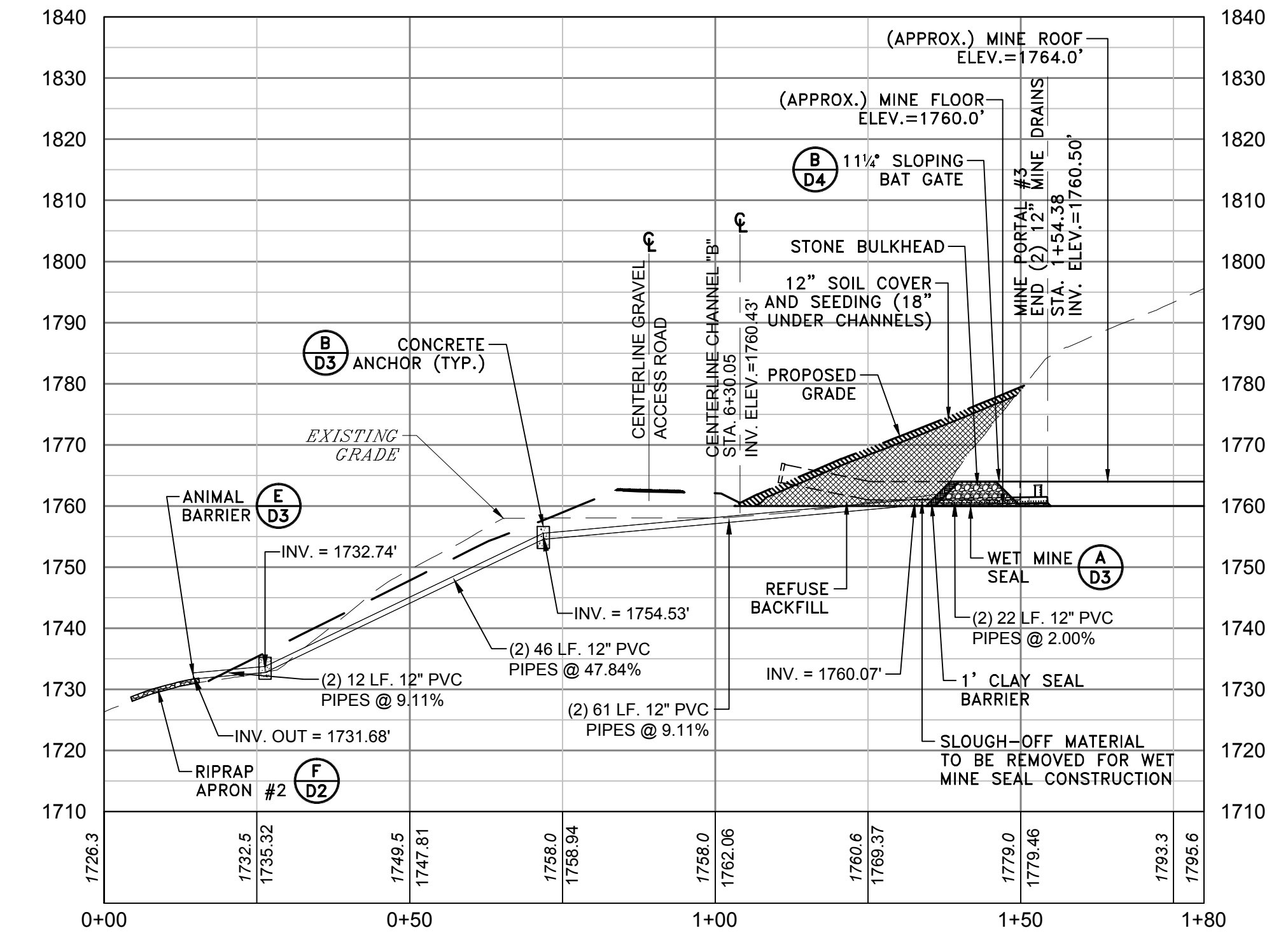
A CHANNEL-B PROFILE
STA. 5+00 TO STA. 8+35
SCALE: 1" = 20' H&V



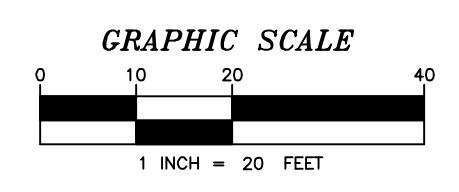
B WET BAT GATE MINE SEAL-1 PROFILE
STA. 0+00 TO STA. 1+20
SCALE: 1" = 20' H&V



C WET BAT GATE MINE SEAL-2 PROFILE
STA. 0+00 TO STA. 2+70
SCALE: 1" = 20' H&V

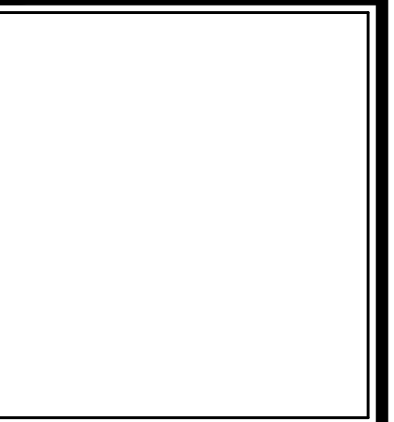


D WET BAT GATE MINE SEAL-3 PROFILE
STA. 0+00 TO STA. 1+80
SCALE: 1" = 20' H&V



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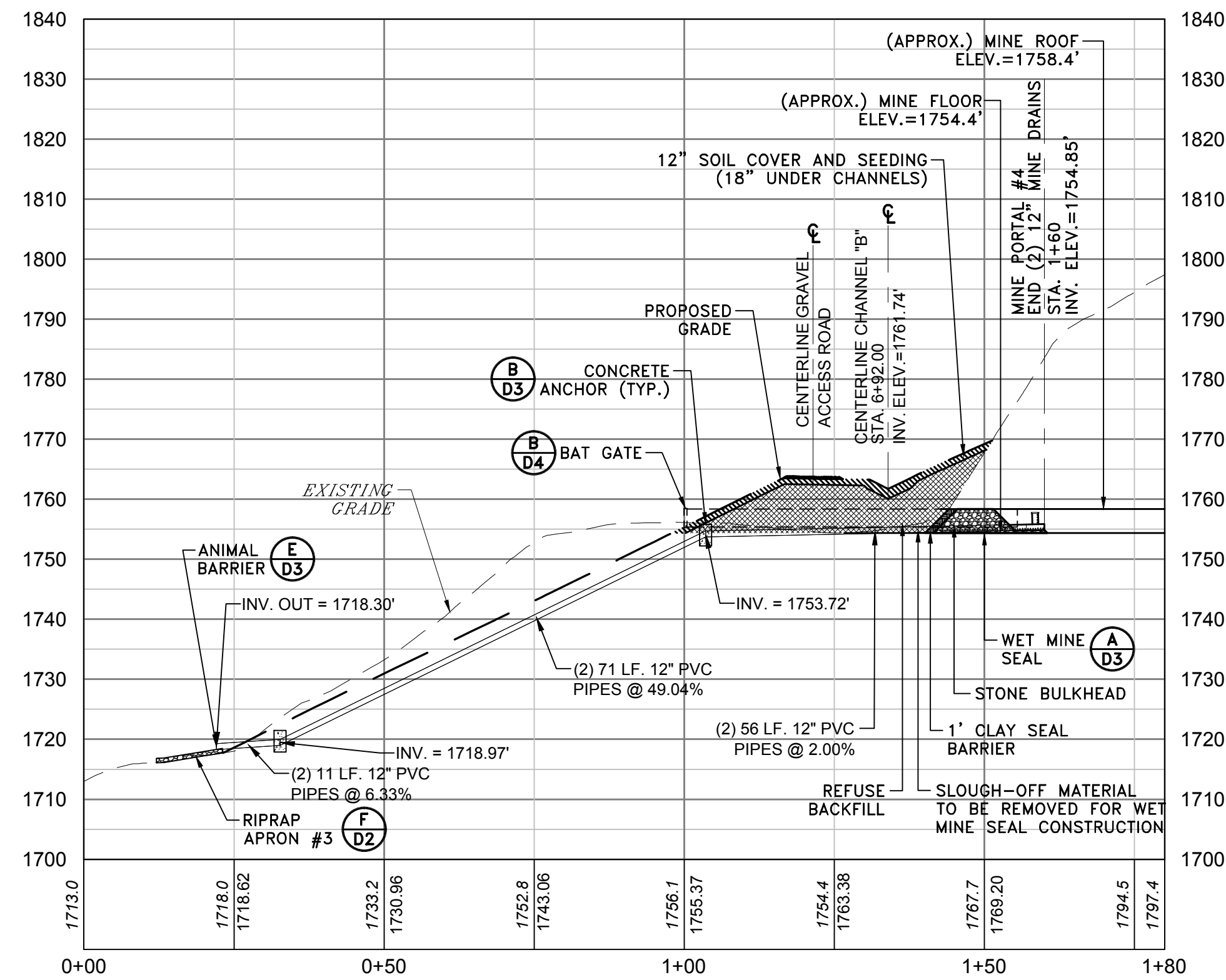


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OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
CHANNEL & WET MINE SEAL PROFILES
PIERPONT REFUSE PILE
WYOMING COUNTY, WEST VIRGINIA

Project No. 01-5055-002
Drawn: WLG
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Approved: WJS
Scale: 1" = 20' H&V
Date: 1-31-2014
CAD File # *-PROFILES

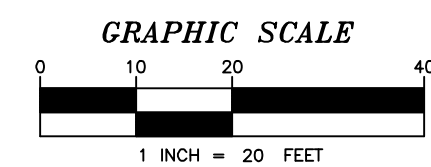
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WET BAT GATE MINE SEAL-4 PROFILE

A STA. 0+00 TO STA. 1+80
SCALE: 1" = 20' H&V



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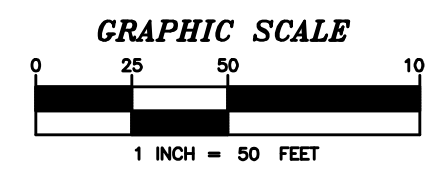
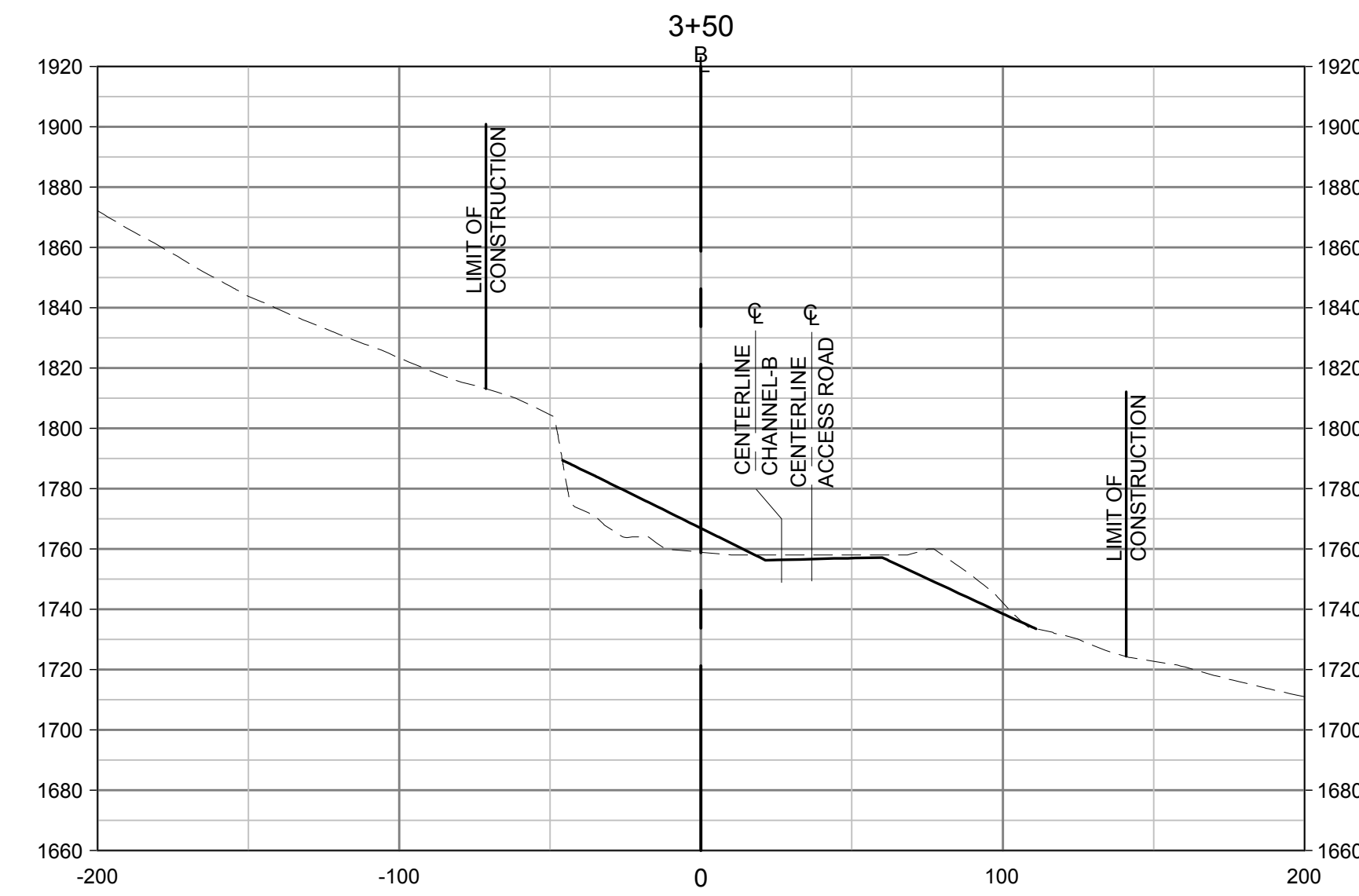
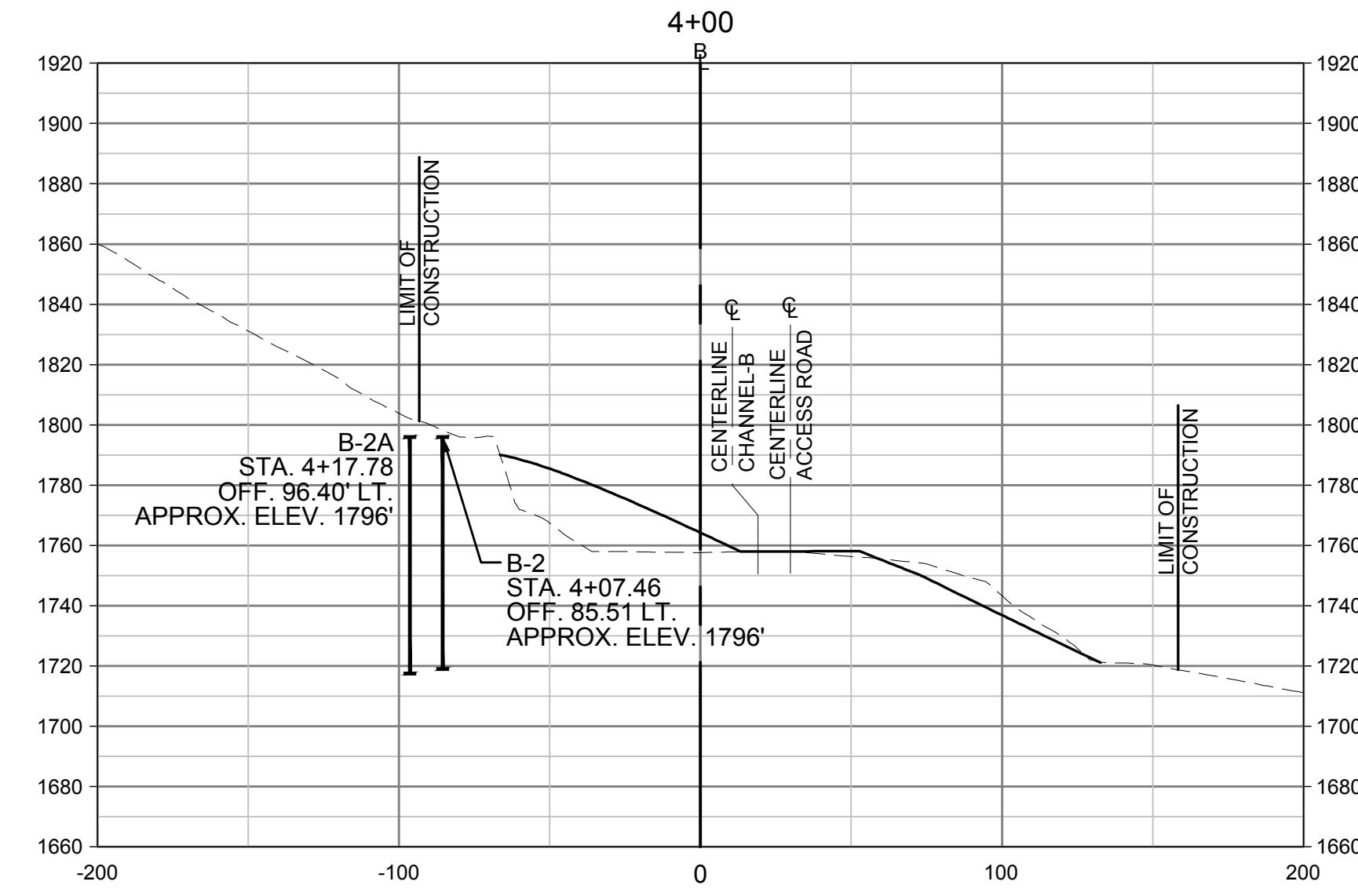
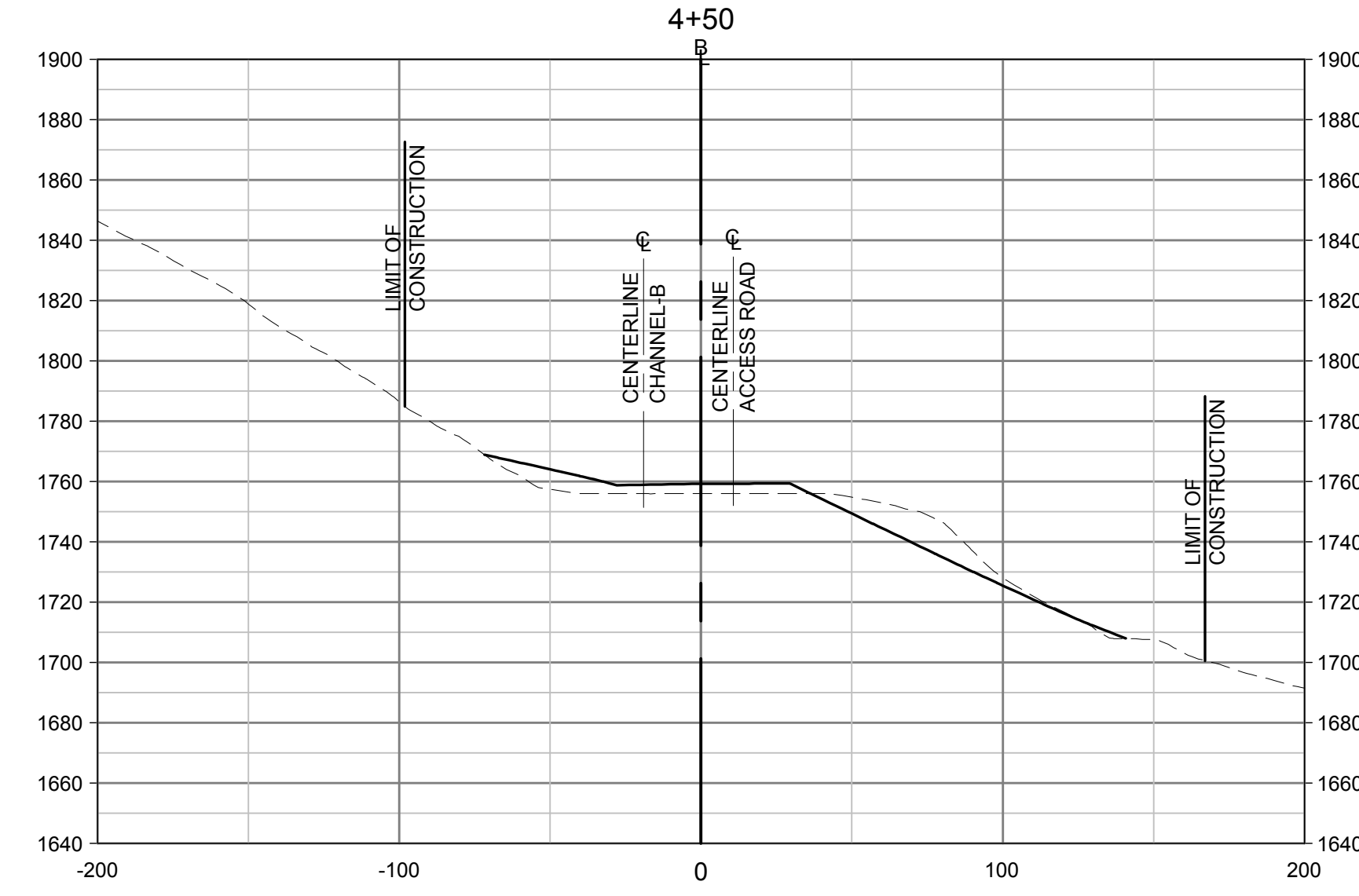
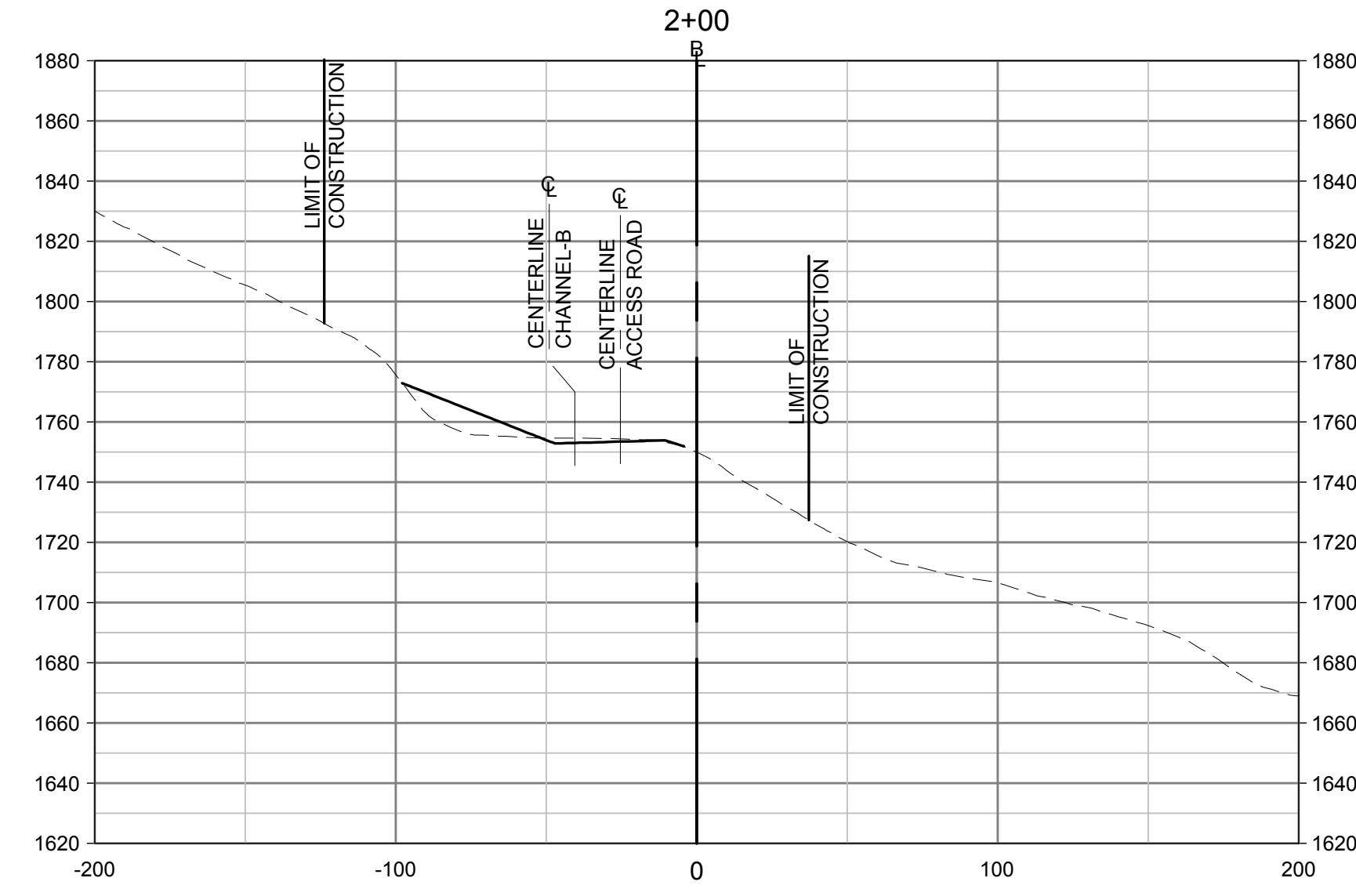
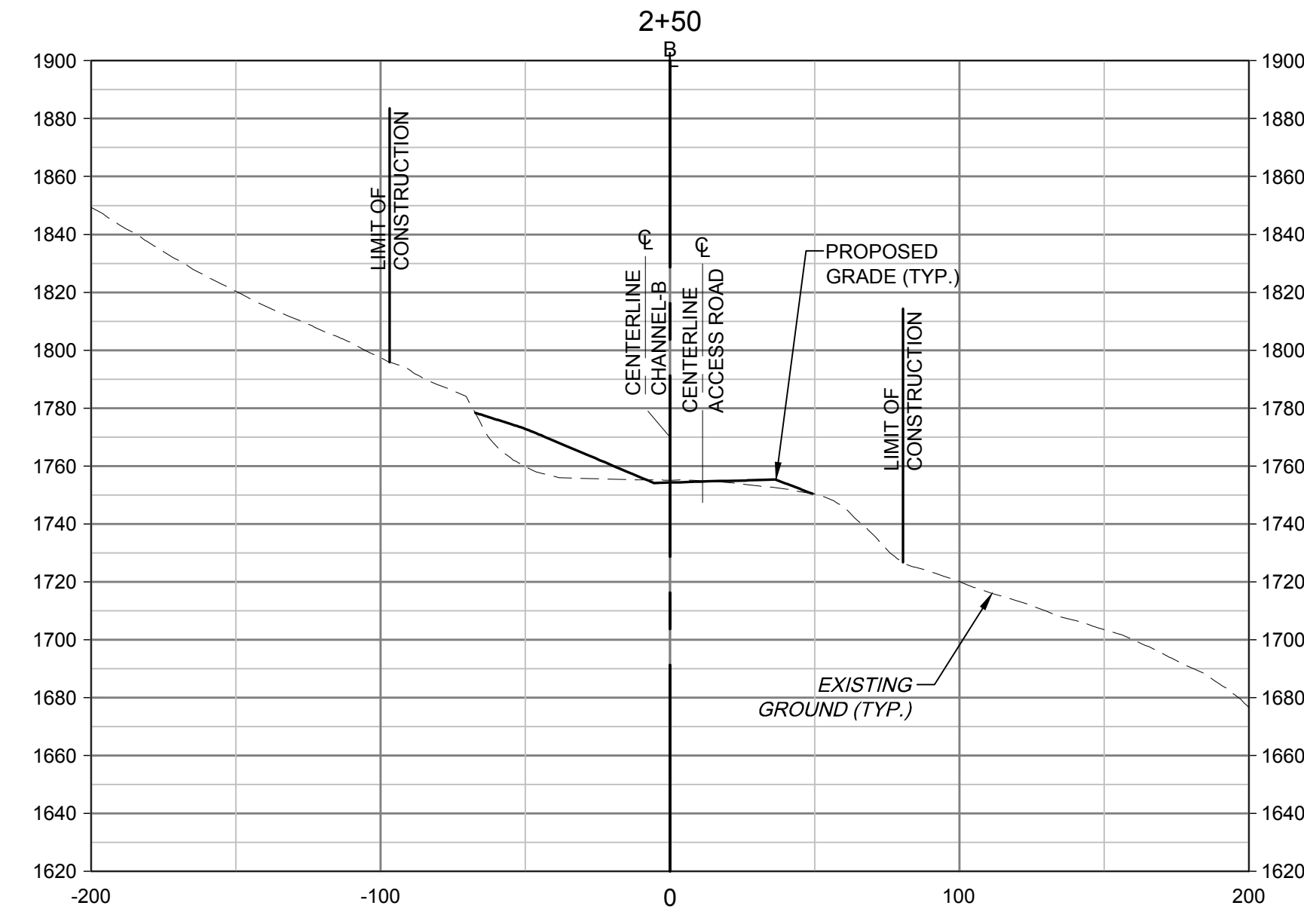
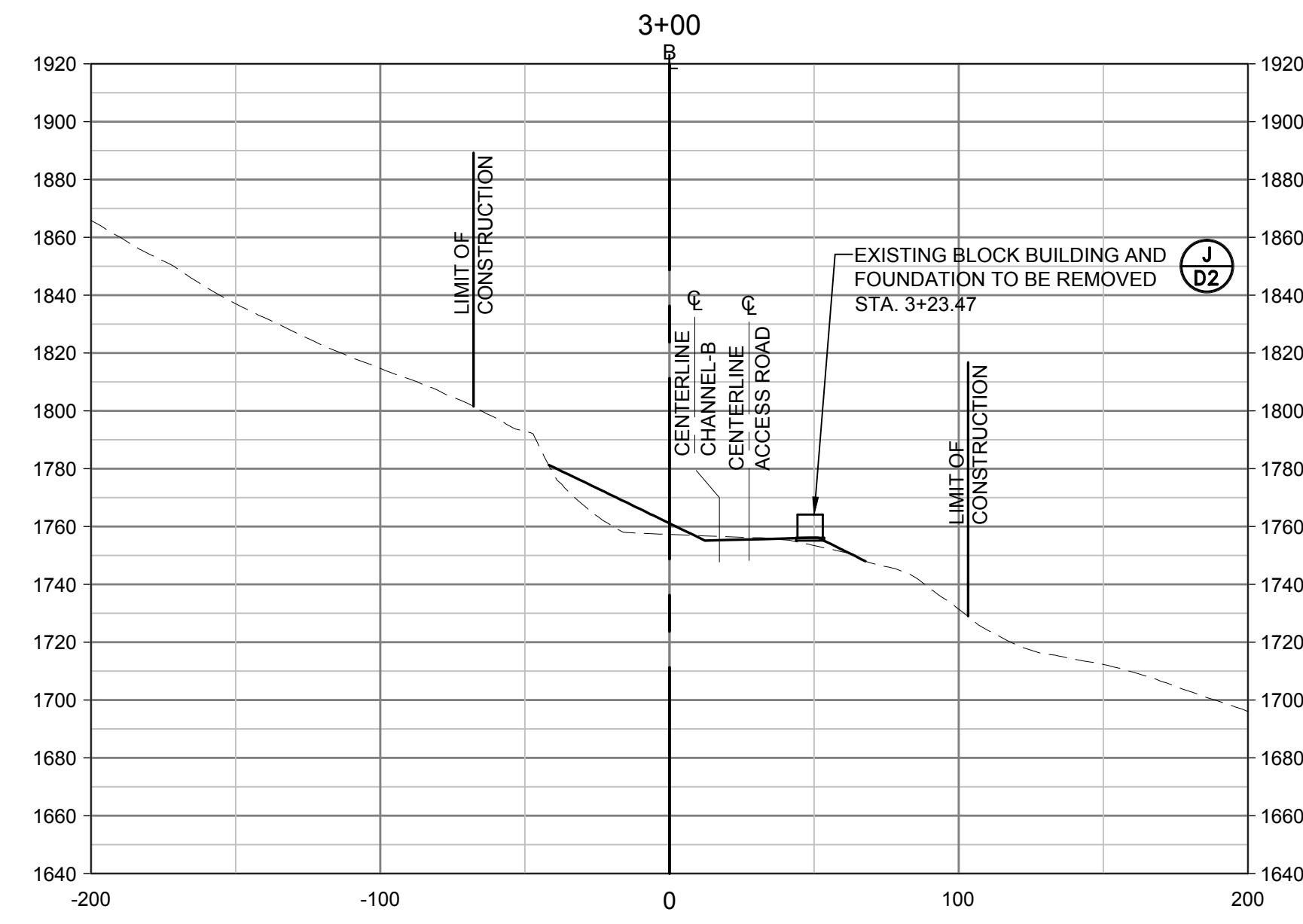
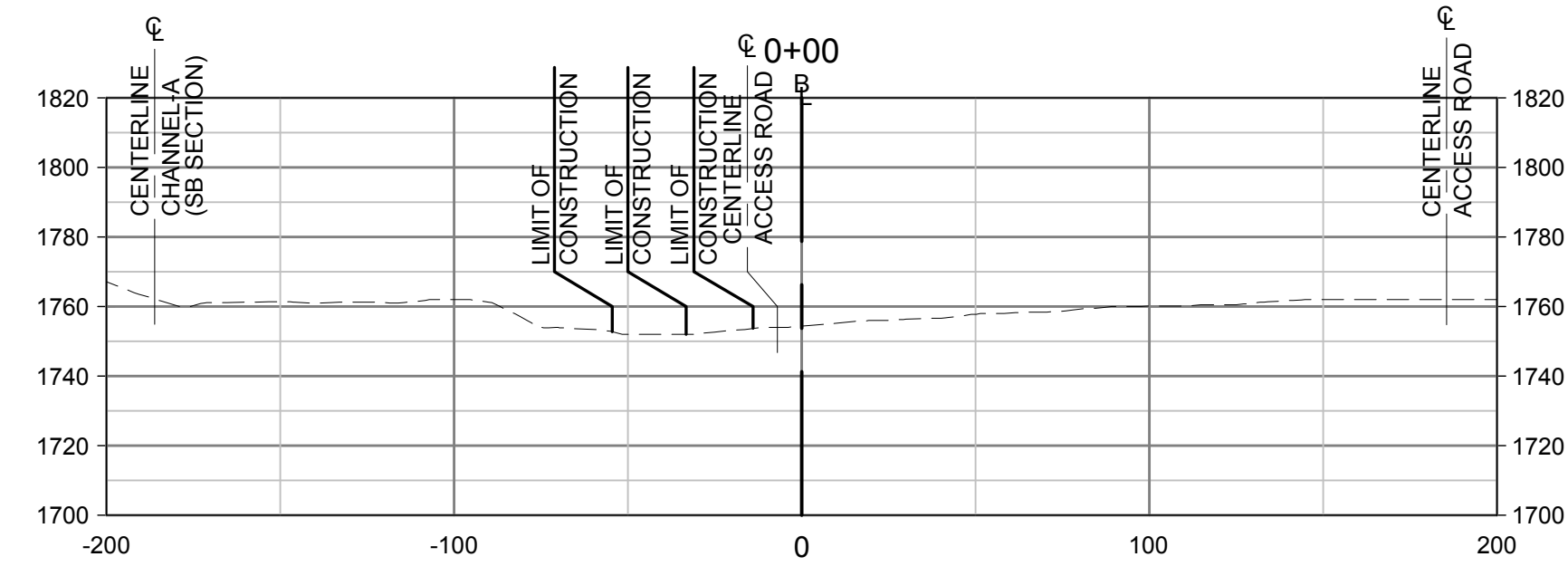
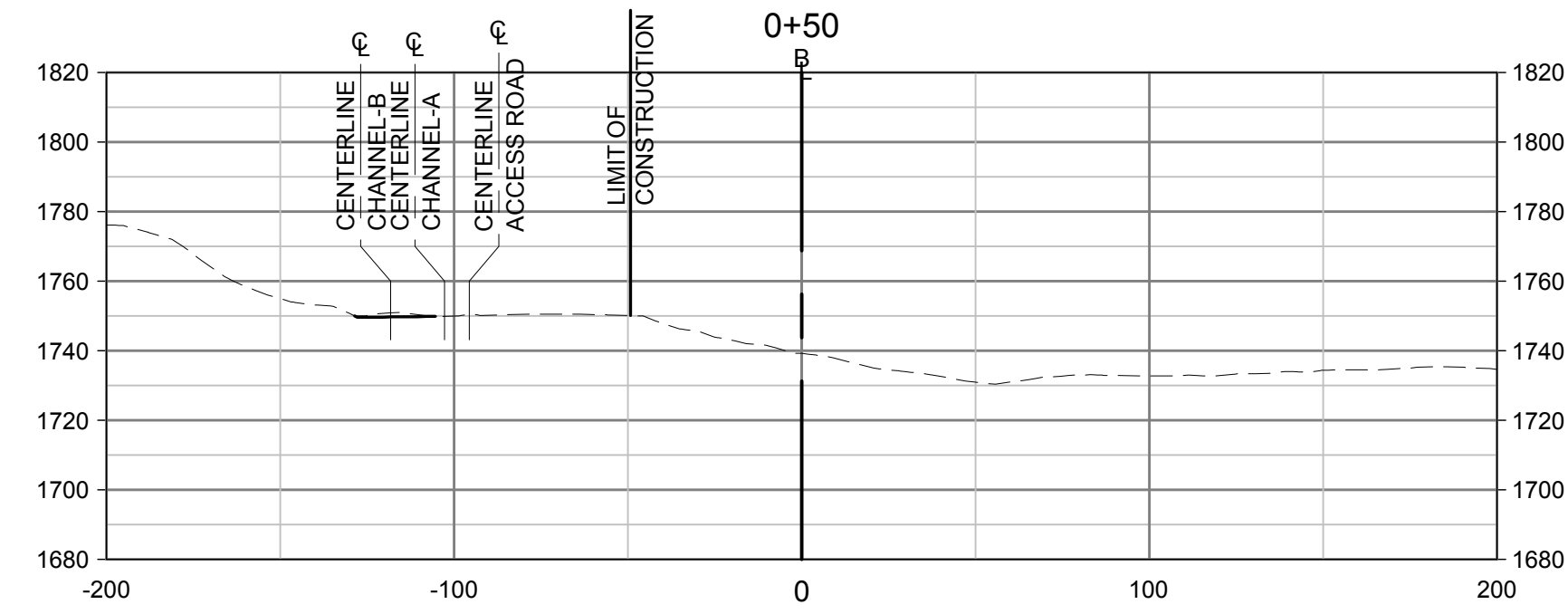
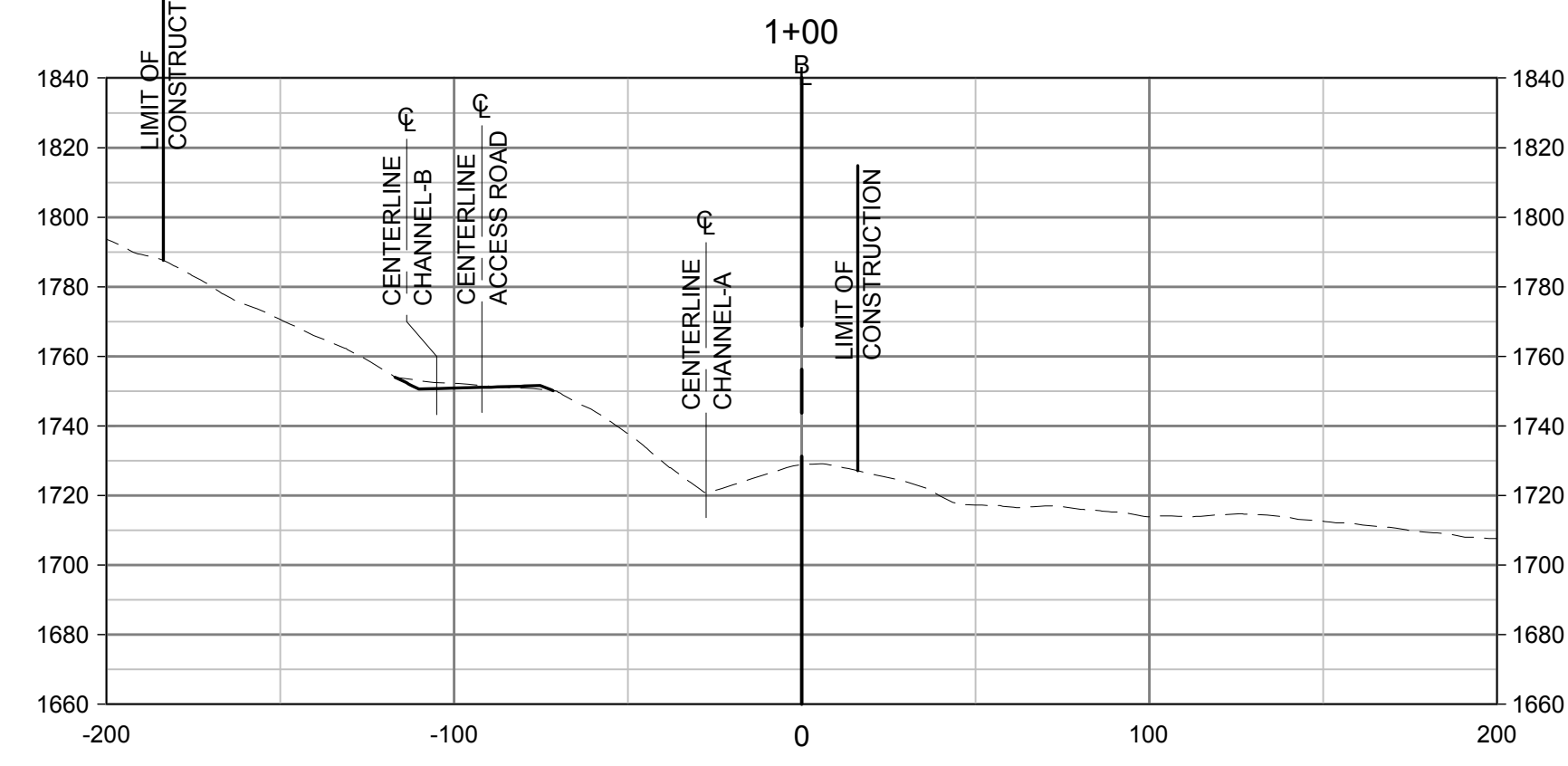
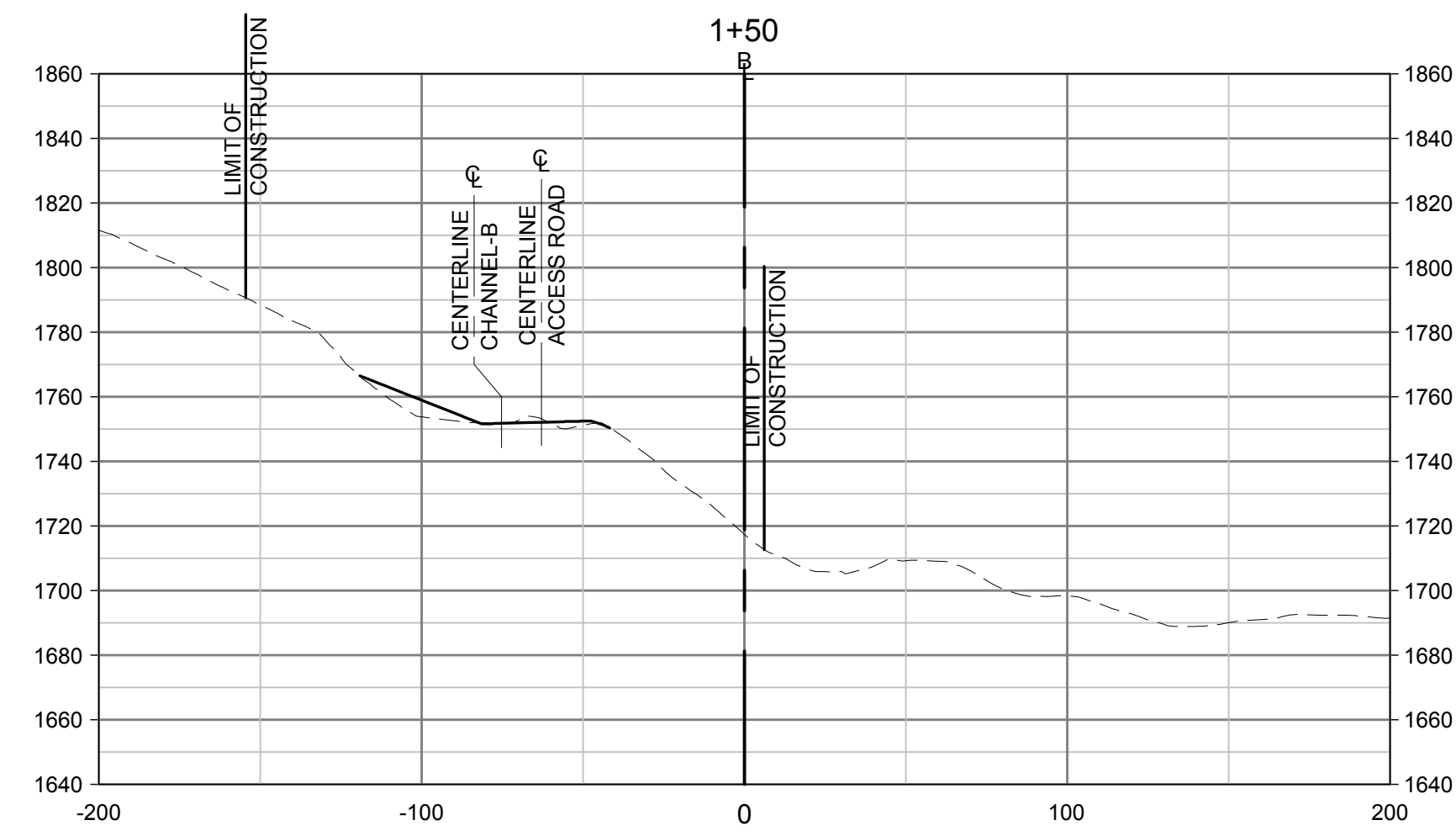
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

WET MINE SEAL PROFILES
 PIERPONT REFUSE PILE
 WYOMING COUNTY, WEST VIRGINIA

Project No.	01-5055-002
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=20' H&V
Date:	1-31-2014
CAD File #	*-PROFILES

P3

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NO.	DATE	REVISION

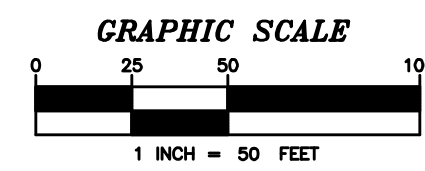
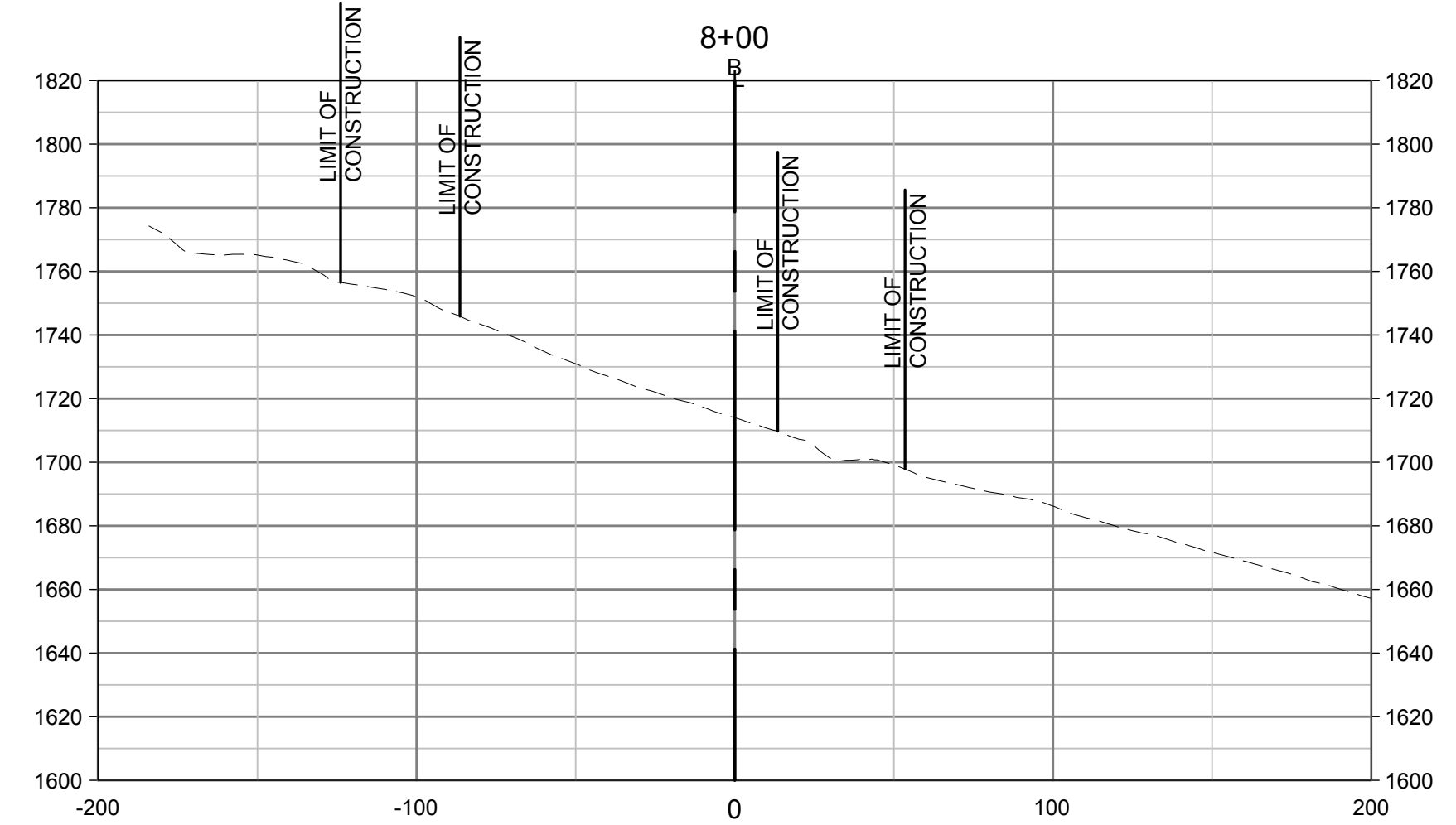
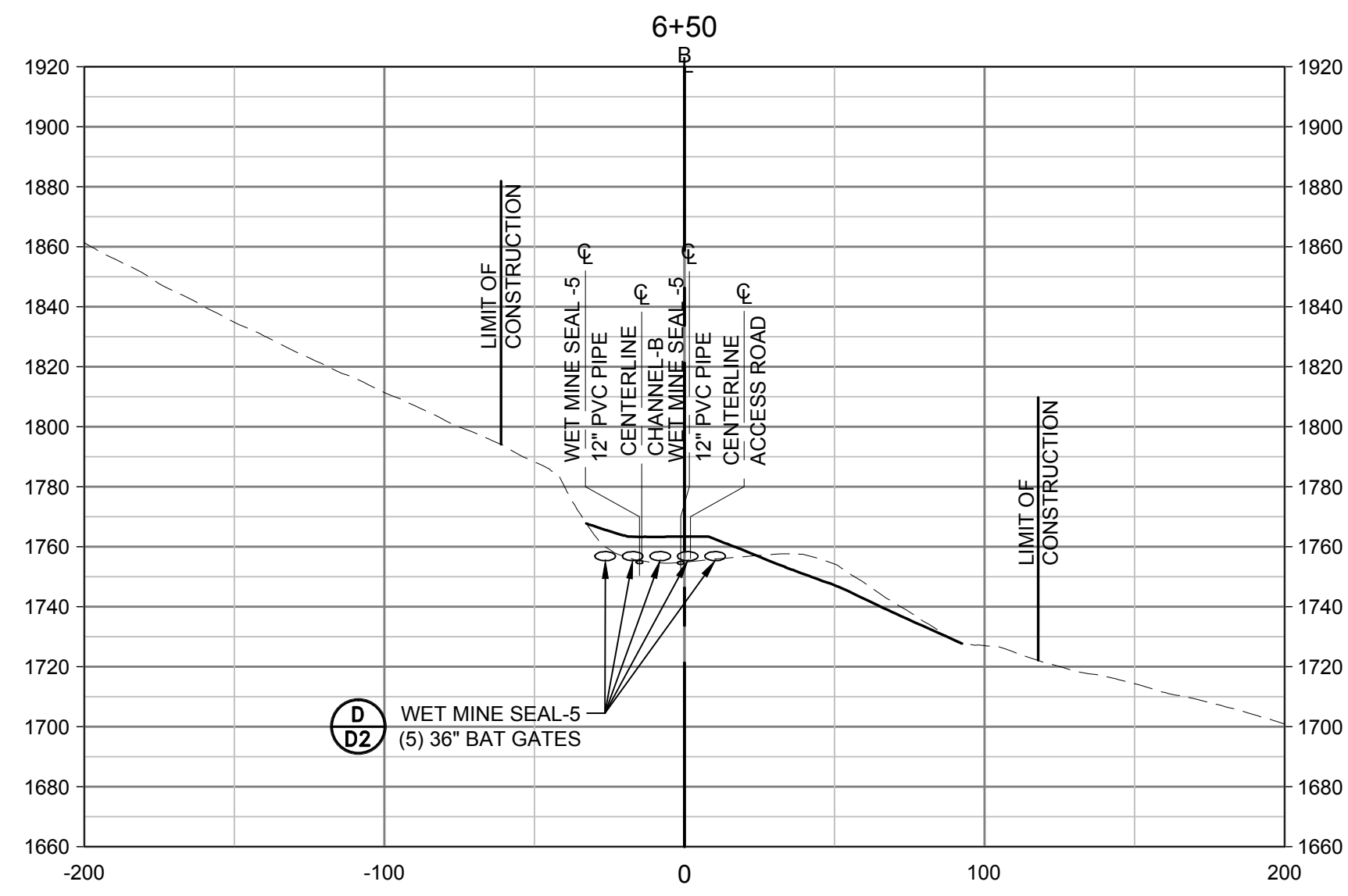
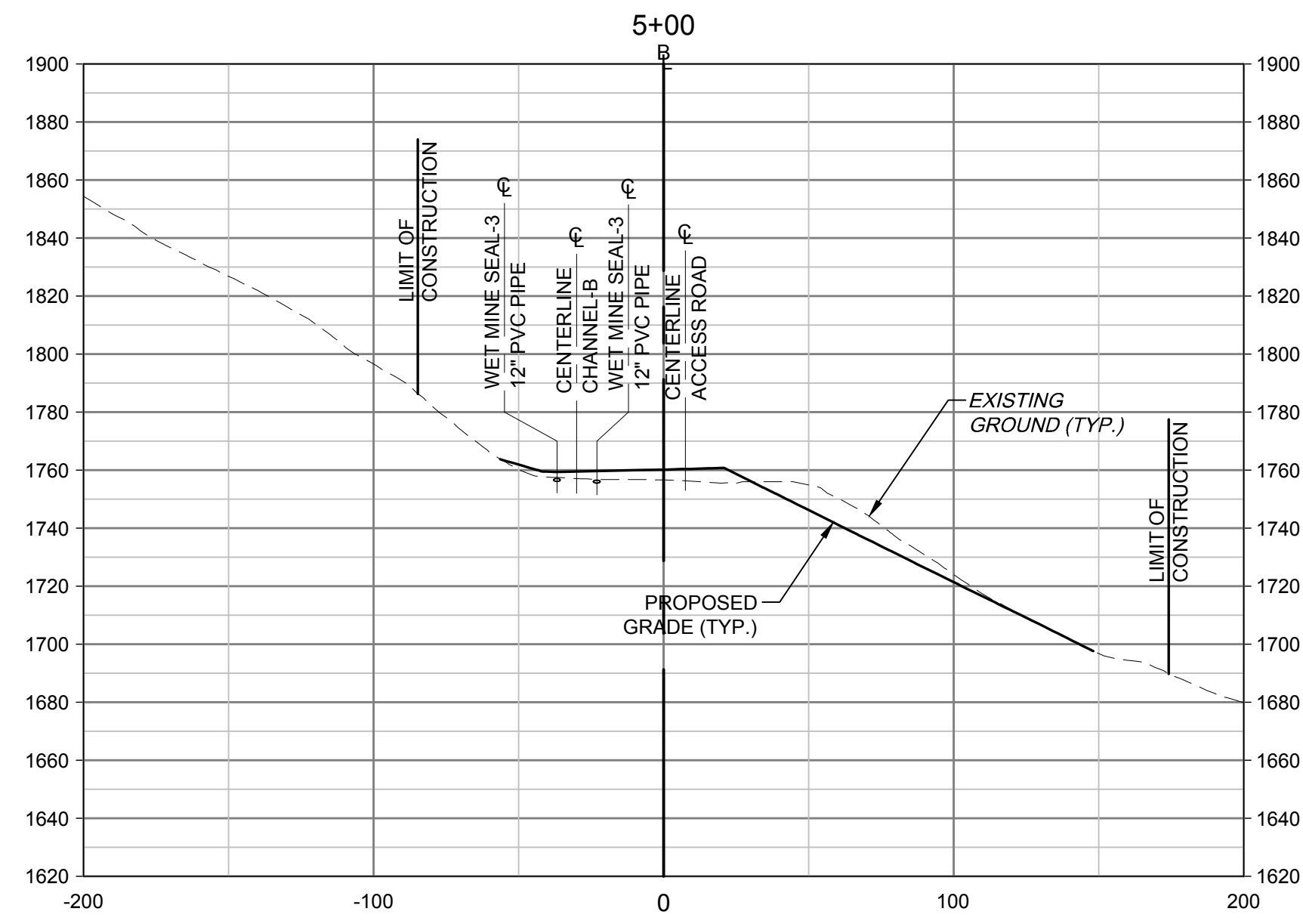
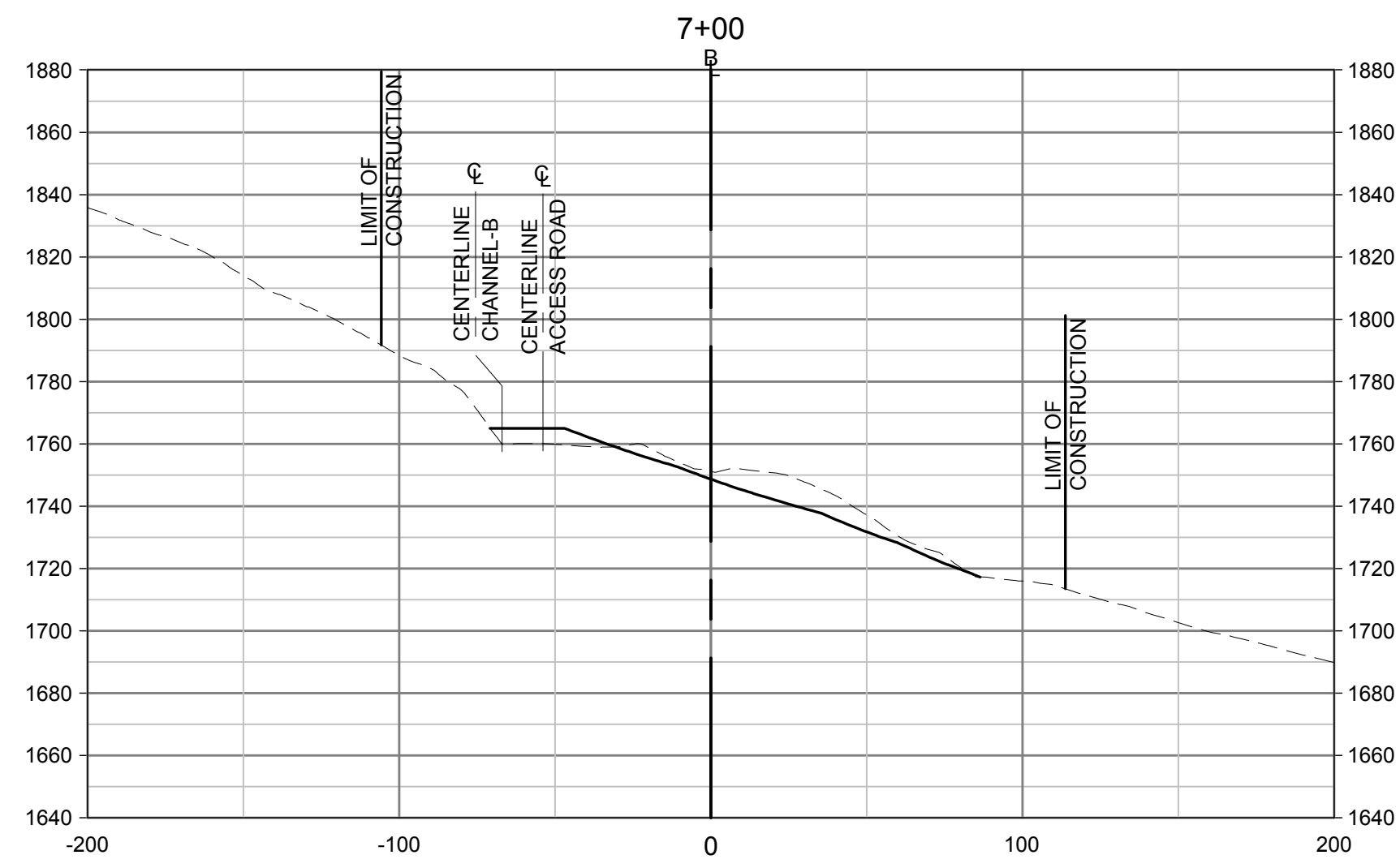
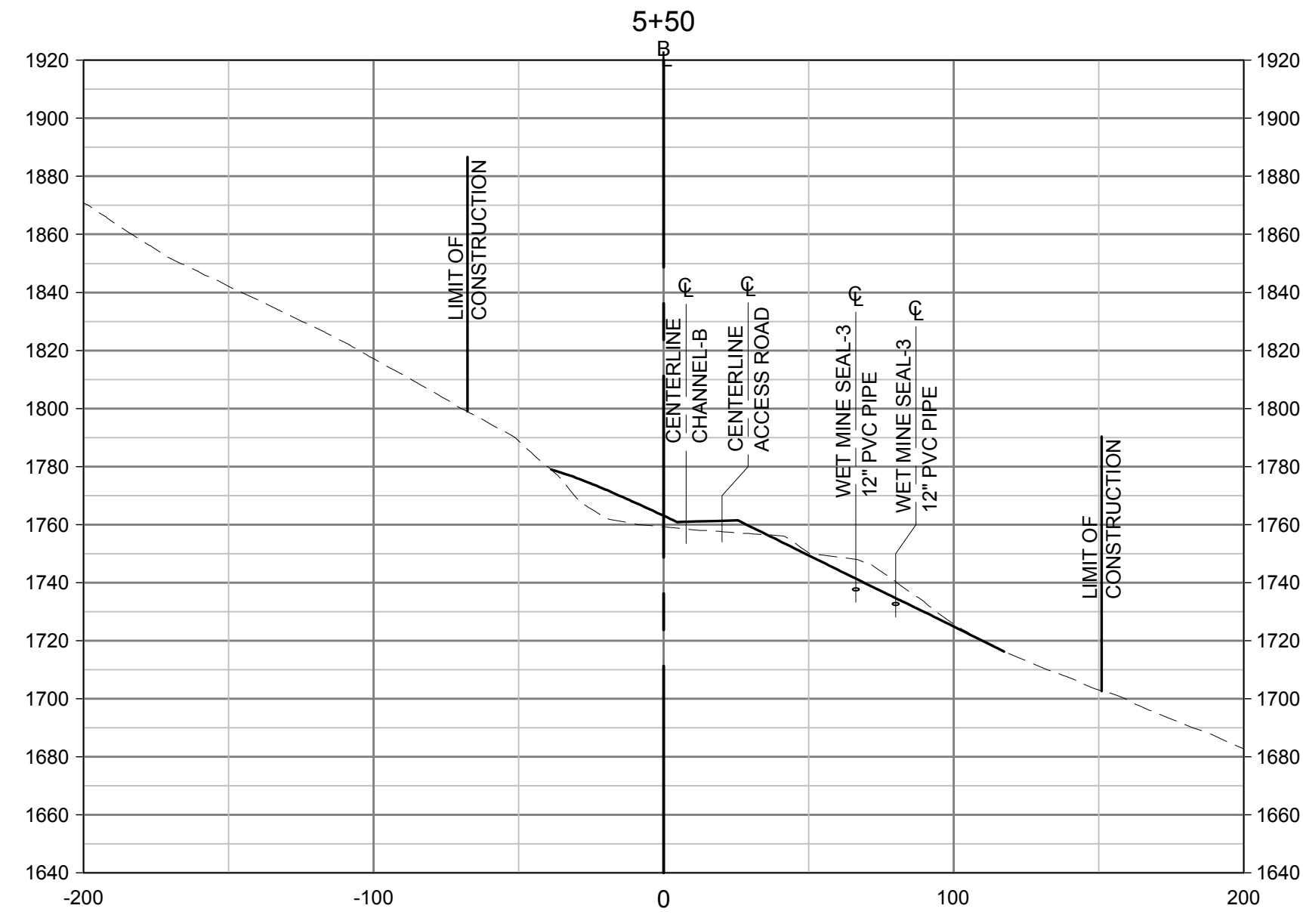
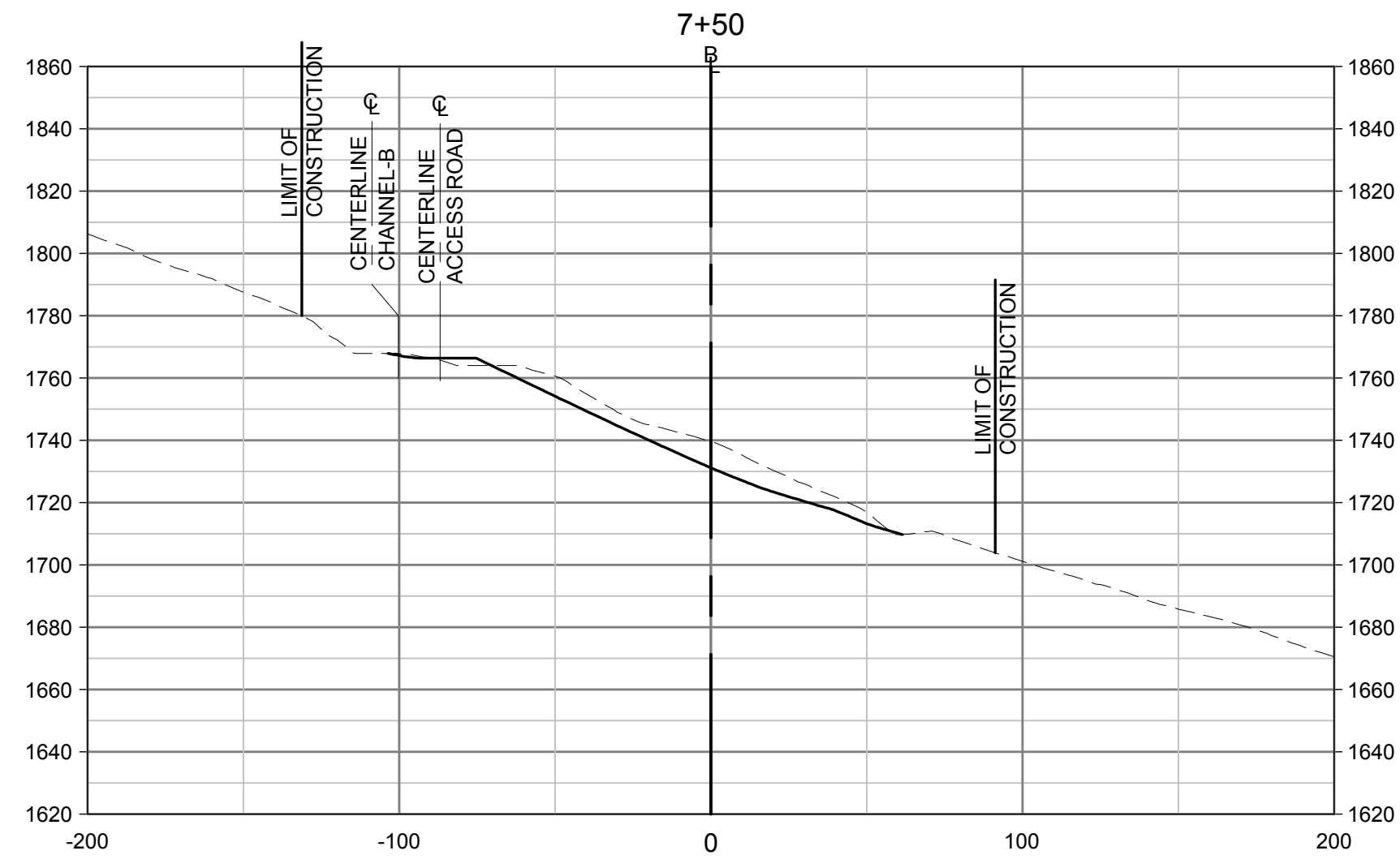
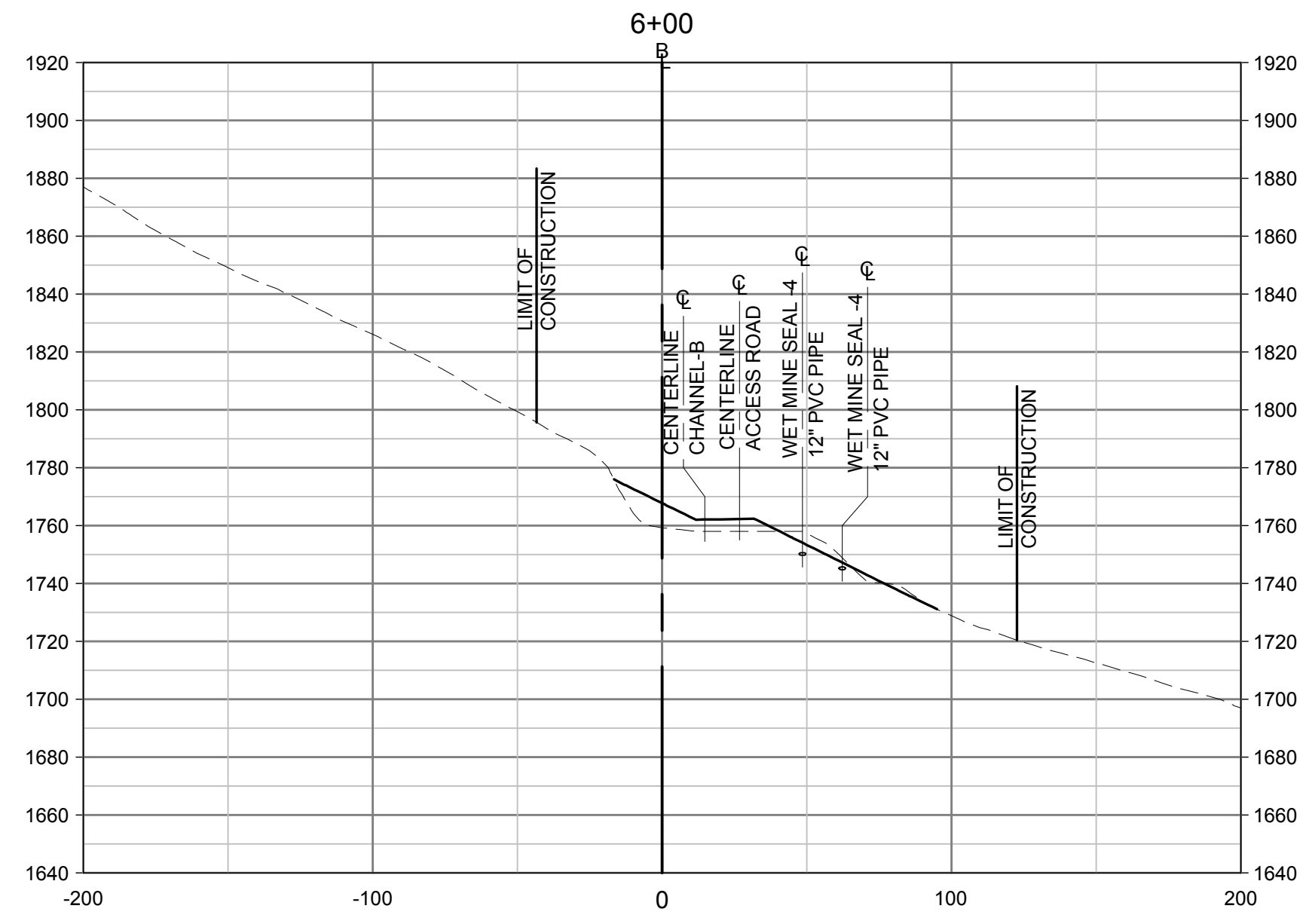
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WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF ABANDONED MINE LANDS AND RECLAMATION
**BASELINE "A" CROSS SECTIONS
 PIERPONT REFUSE PILE
 WYOMING COUNTY, WEST VIRGINIA**

Project No. 01-5055-002
 Drawn: WLG
 Checked: EMP
 Approved: WJS
 Scale: 1"=50' H & V
 Date: 1-31-2014
 CAD File # *SECTIONS

X1

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NO.	DATE	REVISION

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BASELINE "A" CROSS SECTIONS
PIERPONT REFUSE PILE
WYOMING COUNTY, WEST VIRGINIA

Project No. 01-5055-002
Drawn: WLG
Checked: EMP
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CAD File # *SECTIONS

X2