WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED
MINE LANDS AND RECLAMATION
CONLEY BRANCH (WHITT) LANDSLIDE

LOGAN COUNTY, WEST VIRGINIA

Earl Ray Tomblin,
Governor

Randy C. Huffman,
Cabinet Secretary

CONLEY BRANCH (WHITT) LANDSLIDE

Contractor's Bid Schedule

Company Name:_____

Address:_____

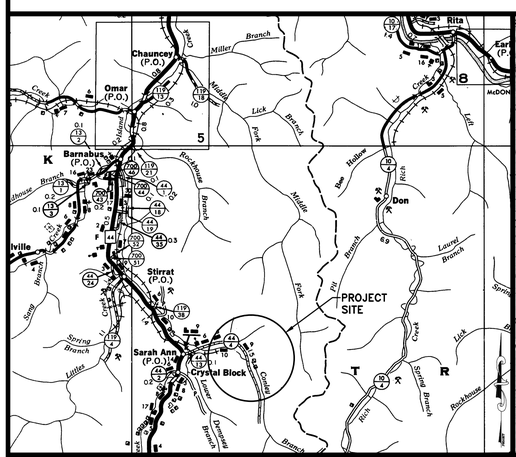
_____

The DEP reserves the right to request additional information and supporting documentation regarding unit prices when the unit price appears to be unreasonable.

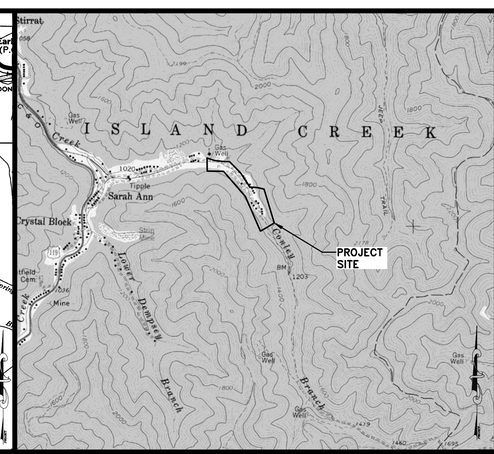
ITEM NO.	QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	AMOUNT
1.0	LS	LS	Mobilization and Demobilization (Limited to 10% of Total Bid)	LS	
2.0	LS	LS	Construction Layout (Limited to 5% of Total Bid)	LS	
3.0	LS	LS	Quality Control (Limited to 3% of Total Bid)	LS	
4.1	LS	LS	Site Preparation (Limited to 10% of Total Bid)	LS	
4.2	160	TN	Access Road Resurfacing		
5.1	4,660	LF	Straw Wattles		
5.2	1,100	LF	Silt Fence		
5.3	1,050	LF	Temporary Pipe Around		
5.4	20	EA	Triangular Silt Dikes		
5.5	4	EA	Temporary Sediment Traps		
5.6	115	SY	Temporary Erosion Control Matting		
5.7	10	EA	Rock Check Dams		
5.8	2	EA	Stabilized Construction Entrance		
6.0	6.8	AC	Revegetation (Per Plan View Acre)		
7.1	1,574	LF	Type 1 Channel		
7.2	692	LF	Type 2 Channel		
7.3	4	EA	Riprap Drive-Through		
7.4	2,525	CY	Riprap Bank Protection		
7.5	LS	LS	Permanent Stream Crossing		
8.1	16,913	CY	Unclassified Excavation		
8.2	90	CY	Muck		
8.3	90	CY	Rock Blanket		
9.1	1	EA	Bat Gate Mine Seal		
9.2	1	EA	Wet Bat Gate Mine Seal		
10.1	55	LF	Underdrain		
10.2	100	LF	6" Diameter PVC Underdrain Conveyance Pipe		
11.0	3.3	AC	Soil Cover (Per Plan View Acre)		
12.0	40	EA	Gabion Retaining Wall (3'x3'x6')		
			TOTAL		$

TERRADON CORPORATION

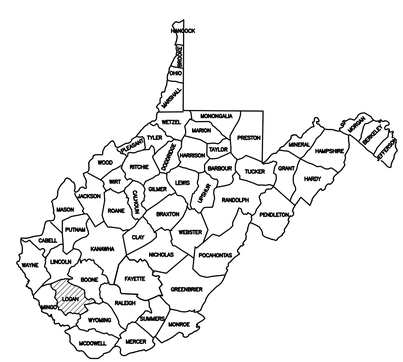
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA



VICINITY MAP
WV DIVISION OF HIGHWAYS
LOGAN COUNTY HIGHWAY MAP
SCALE: 1"=1 MILE



LOCATION MAP
U.S.G.S. 7.5' QUADRANGLES
MAN, WEST VIRGINIA
SCALE: 1"= 2000'



WEST VIRGINIA

SHEET INDEX

SHEET 1	TITLE AND INDEX SHEET
SHEET C1	RECLAMATION PLAN COMPOSITE
SHEET E1-E2	EXISTING CONDITIONS
SHEET R1-R2	RECLAMATION PLAN
SHEET T1-T2	TAXMAP OVERLAY
SHEET D1-D5	MISCELLANEOUS DETAILS
SHEET P1	MINE SEAL, UNDERDRAIN AND CHANNEL PROFILES
SHEET P2-P4	CHANNEL PROFILES
SHEET X1-X4	BASELINE "A" CROSS SECTIONS

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

Approved

Date

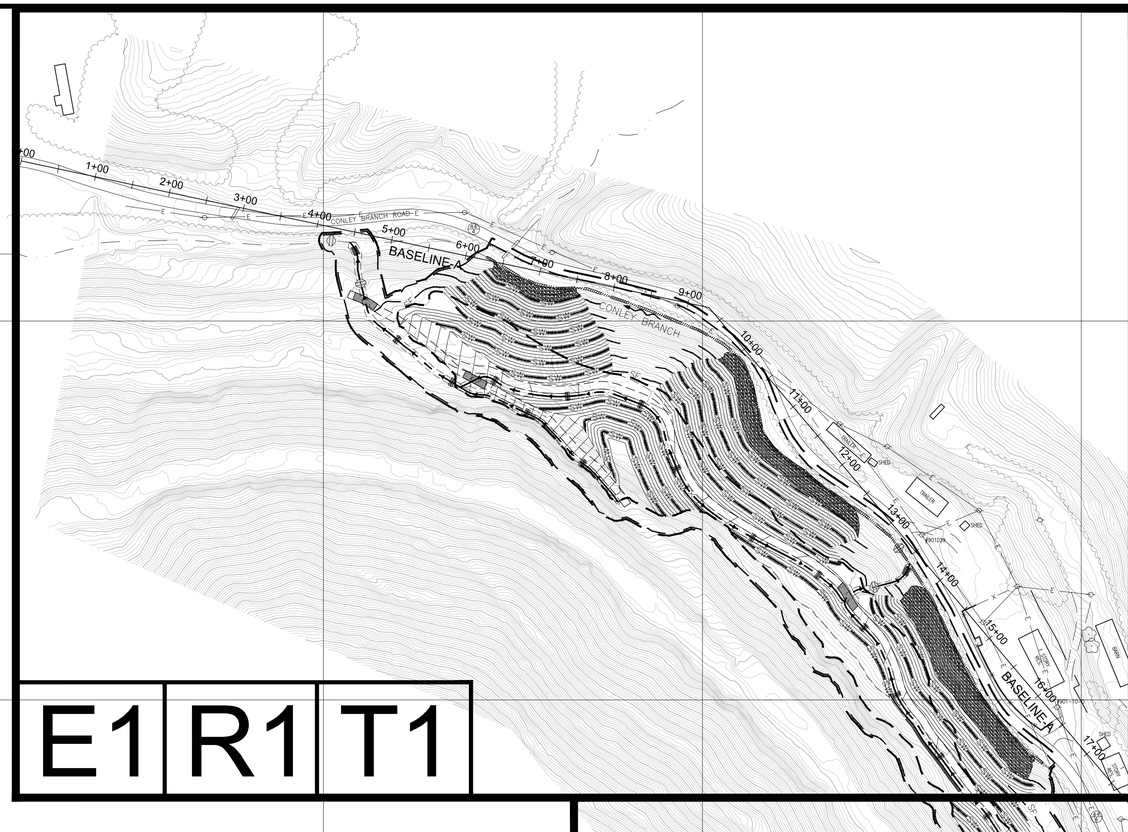
SEAL

TITLE AND INDEX SHEET

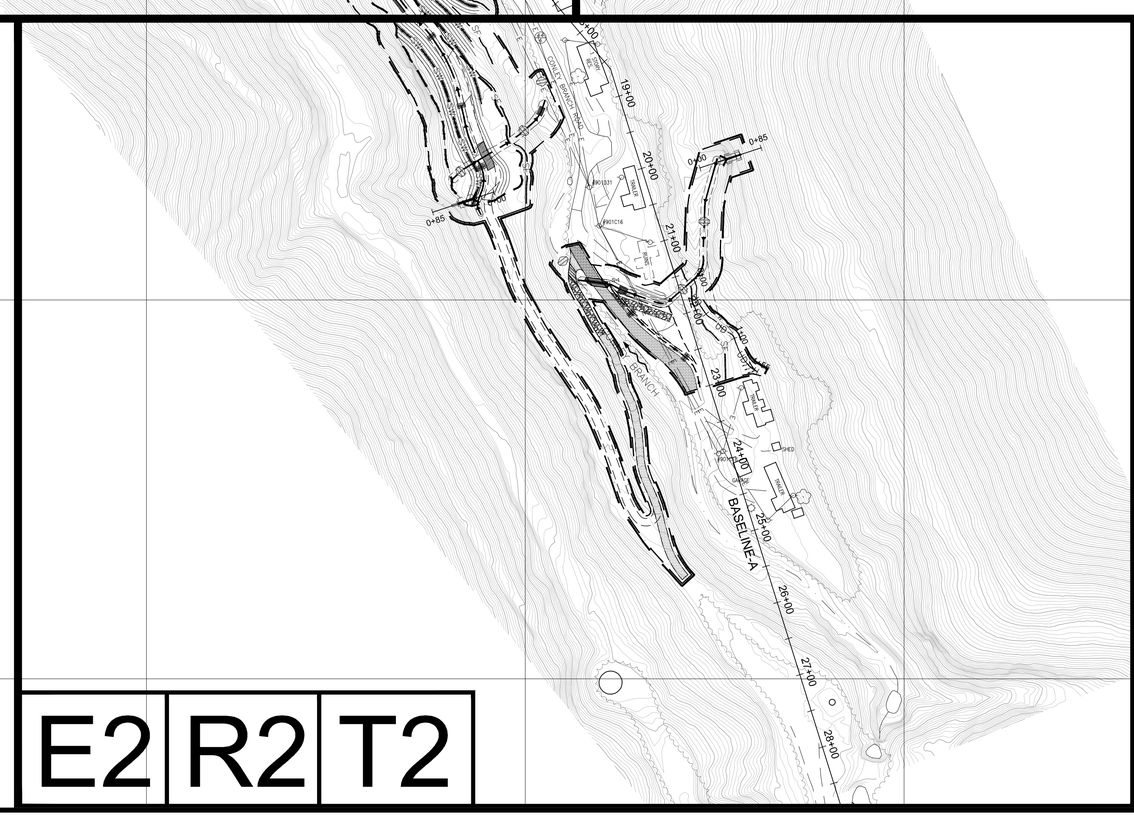
*TITLE-SHT	TITLE
	CAD File No.
WLG	Drawn
EMP	Checked
WJS	Approved
AS SHOWN	Scale:
4-16-2014	Date:
01-5055-001	Project No.
1	Drawing No.

PLOT DATE : 4/16/2014 2:11 PM FILE SAVED BY :BILLGERENCIR ON 4/16/2014 2:11 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-TITLE-SHT.DWG

WEST VIRGINIA STATE PLANE
COORDINATE SYSTEM OF 1983,
SOUTH ZONE



E1 R1 T1



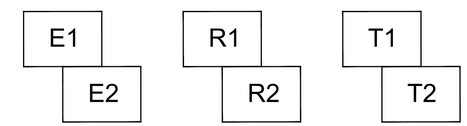
E2 R2 T2

LEGEND

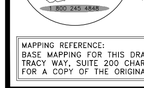
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE
	EXISTING UNPAVED ROAD	W G	EXISTING WATER OR GAS METER
	EXISTING DRIVEWAY	WV GV	EXISTING WATER OR GAS VALVE
	EXISTING BUILDING		EXISTING SCATTERED TRASH/DEBRIS
	EXISTING STREAM/DITCH		EXISTING MINE PORTAL
	EXISTING CULVERT	1670	EXISTING CONTOUR
X X	EXISTING FENCE LINE		EXISTING TREELINE/BRUSHLINE
	EXISTING UTILITY POLE	S-1	WATER SAMPLE LOCATION
	EXISTING FIRE HYDRANT	10+00	PROPOSED BASELINE
	EXISTING LIGHT POLE	SW SW SW	PROPOSED STRAW WATTLES
STM STM STM	EXISTING STORM SEWER	SF SF SF	PROPOSED SILT FENCE
W W W	EXISTING WATER LINE		PROPOSED TEMPORARY PIPE AROUND
SAN SAN	EXISTING SANITARY SEWER	UD UD UD	PROPOSED UNDERDRAIN
E E E	EXISTING OVERHEAD ELECTRIC LINE	5+00	PROPOSED DRAINAGE CHANNEL
G G G G	EXISTING GAS LINE		PROPOSED LIMIT OF CONSTRUCTION
C C C C	EXISTING OVERHEAD CABLE LINE		PROPOSED LIMIT OF DISTURBANCE
T T T T	EXISTING OVERHEAD TELEPHONE LINE		PROPOSED ROCK CHECK DAM
E&C E&C	EXISTING OVERHEAD ELECTRIC/CABLE		PROPOSED TRIANGULAR SILT DIKE
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		PROPOSED SEDIMENT TRAP
E&T E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE		STABILIZED CONSTRUCTION ENTRANCE
C&T C&T C&T	EXISTING OVERHEAD CABLE/TELEPHONE		
UE UE	EXISTING UNDERGROUND ELECTRIC		
UT UT	EXISTING UNDERGROUND TELEPHONE		
UC UC	EXISTING UNDERGROUND CABLE		

NOTES:

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



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 25311, 304-345-6712
FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWYER.

GRAPHIC SCALE
0 50 100 200
1 INCH = 100 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

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

RECLAMATION PLAN COMPOSITE
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=100'
Date:	4-16-2014
CAD File #	*-REC-PLAN

C1

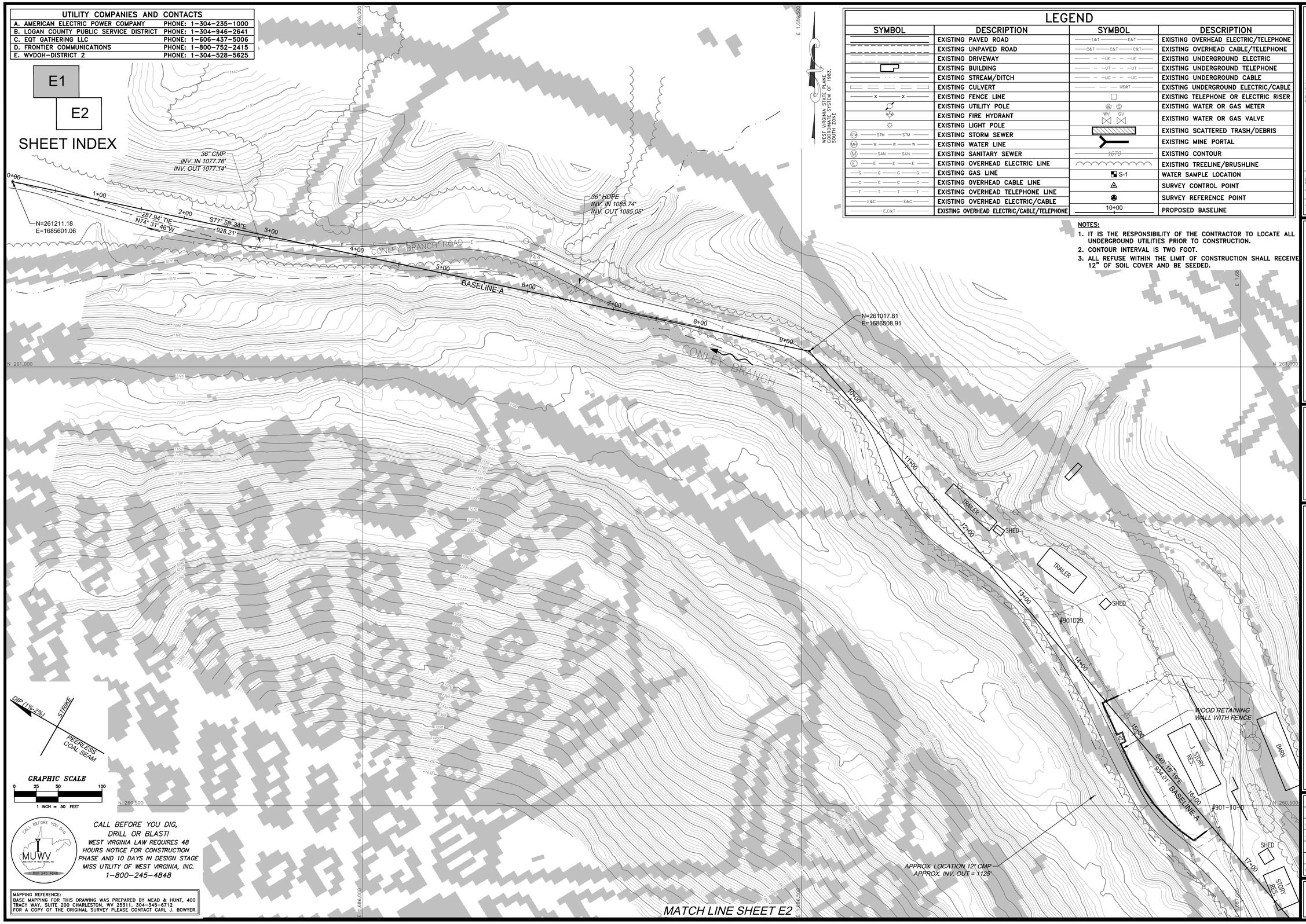
PLOT DATE : 10/15/2014 11:19 AM FILE SAVED BY :BILL.GERENCIR ON 10/15/2014 11:11 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-REC-PLAN.DWG

UTILITY COMPANIES AND CONTACTS	
A. AMERICAN ELECTRIC POWER COMPANY	PHONE: 1-304-235-1000
B. LOGAN COUNTY PUBLIC SERVICE DISTRICT	PHONE: 1-304-946-2641
C. EQT GATHERING LLC	PHONE: 1-606-437-5006
D. FRONTIER COMMUNICATIONS	PHONE: 1-800-752-2415
E. WVDOH-DISTRICT 2	PHONE: 1-304-528-5625

E1

E2

SHEET INDEX



LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	E&T E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE
	EXISTING UNPAVED ROAD	C&T C&T C&T	EXISTING OVERHEAD CABLE/TELEPHONE
	EXISTING DRIVEWAY	UE UE	EXISTING UNDERGROUND ELECTRIC
	EXISTING BUILDING	UT UT	EXISTING UNDERGROUND TELEPHONE
	EXISTING STREAM/DITCH	UC UC	EXISTING UNDERGROUND CABLE
	EXISTING CULVERT	UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE
X X	EXISTING FENCE LINE		EXISTING TELEPHONE OR ELECTRIC RISER
	EXISTING UTILITY POLE	W G	EXISTING WATER OR GAS METER
	EXISTING FIRE HYDRANT	WV GV	EXISTING WATER OR GAS VALVE
	EXISTING LIGHT POLE		EXISTING SCATTERED TRASH/DEBRIS
STM STM STM	EXISTING STORM SEWER		EXISTING MINE PORTAL
W W W	EXISTING WATER LINE	1070	EXISTING CONTOUR
SAN SAN	EXISTING SANITARY SEWER		EXISTING TREELINE/BRUSHLINE
E E E	EXISTING OVERHEAD ELECTRIC LINE	S-1	WATER SAMPLE LOCATION
G G G G	EXISTING GAS LINE		SURVEY CONTROL POINT
C C C C	EXISTING OVERHEAD CABLE LINE		SURVEY REFERENCE POINT
T T T T	EXISTING OVERHEAD TELEPHONE LINE	10+00	PROPOSED BASELINE
E&C E&C	EXISTING OVERHEAD ELECTRIC/CABLE		
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		

NOTES:

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

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

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

EXISTING CONDITIONS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

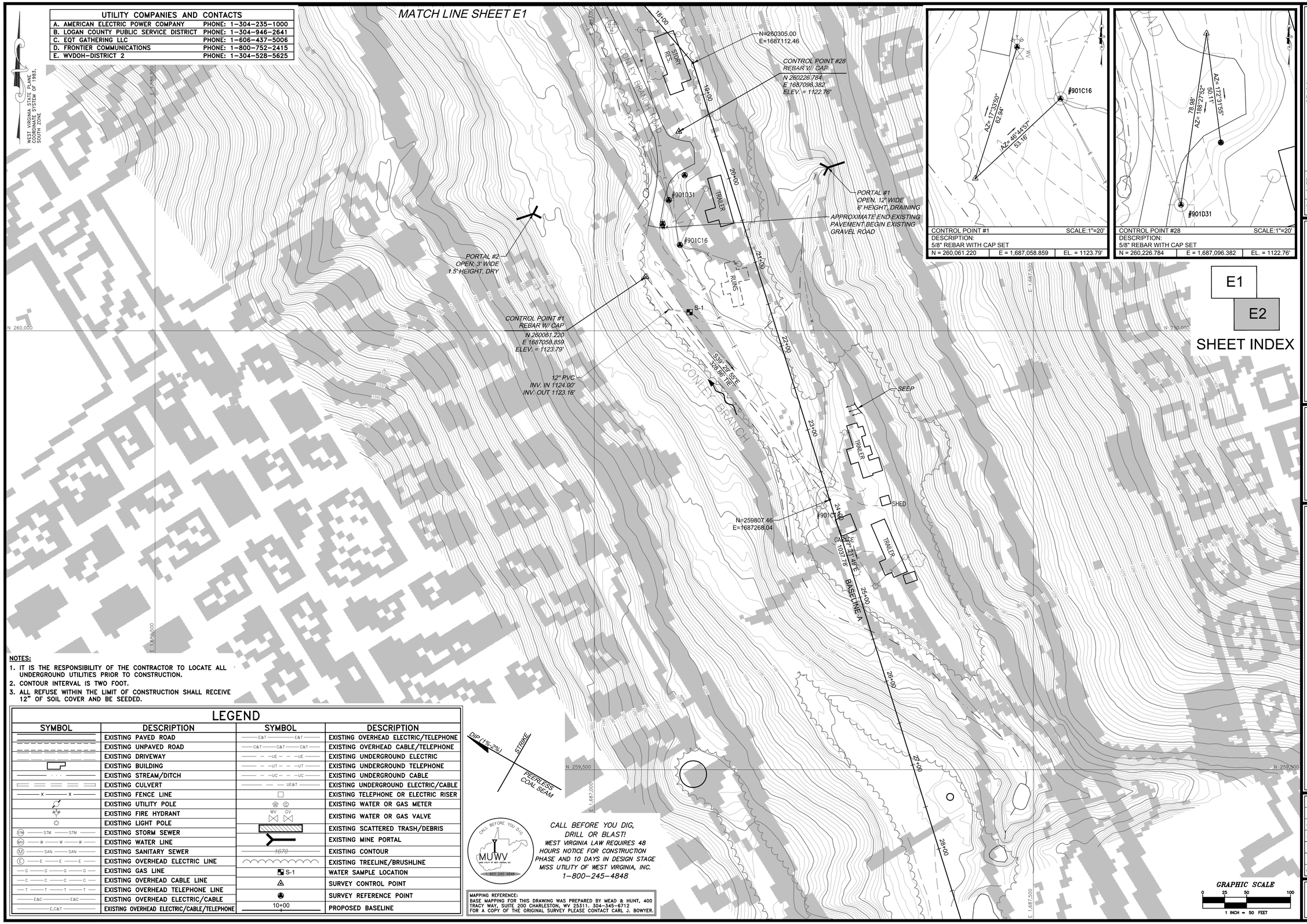
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	2-10-2014
CAD File #	*-EXIST-COND

E1

PLOT DATE : 10/15/2014 11:22 AM FILE SAVED BY :BILLGERENCIR ON 10/15/2014 11:21 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-EXIST-COND.DWG

UTILITY COMPANIES AND CONTACTS	
A. AMERICAN ELECTRIC POWER COMPANY	PHONE: 1-304-235-1000
B. LOGAN COUNTY PUBLIC SERVICE DISTRICT	PHONE: 1-304-946-2641
C. EQT GATHERING LLC	PHONE: 1-606-437-5006
D. FRONTIER COMMUNICATIONS	PHONE: 1-800-752-2415
E. WVDOH-DISTRICT 2	PHONE: 1-304-528-5625

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM OF 1983, SOUTH ZONE



NOTES:

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

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE
	EXISTING UNPAVED ROAD	C&T	EXISTING OVERHEAD CABLE/TELEPHONE
	EXISTING DRIVEWAY	UE	EXISTING UNDERGROUND ELECTRIC
	EXISTING BUILDING	UT	EXISTING UNDERGROUND TELEPHONE
	EXISTING STREAM/DITCH	UC	EXISTING UNDERGROUND CABLE
	EXISTING CULVERT	UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE
X	EXISTING FENCE LINE		EXISTING TELEPHONE OR ELECTRIC RISER
	EXISTING UTILITY POLE	W G	EXISTING WATER OR GAS METER
	EXISTING FIRE HYDRANT	WV GV	EXISTING WATER OR GAS VALVE
	EXISTING LIGHT POLE		EXISTING SCATTERED TRASH/DEBRIS
STM	EXISTING STORM SEWER		EXISTING MINE PORTAL
W	EXISTING WATER LINE	1670	EXISTING CONTOUR
SAN	EXISTING SANITARY SEWER		EXISTING TREELINE/BRUSHLINE
E	EXISTING OVERHEAD ELECTRIC LINE	S-1	WATER SAMPLE LOCATION
G	EXISTING GAS LINE		SURVEY CONTROL POINT
C	EXISTING OVERHEAD CABLE LINE		SURVEY REFERENCE POINT
T	EXISTING OVERHEAD TELEPHONE LINE	10+00	PROPOSED BASELINE
E&C	EXISTING OVERHEAD ELECTRIC/CABLE		
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		

DIP (18%-25%) STRIKE PEERLESS COAL SEAM

CALL BEFORE YOU DIG
MUWV
UNDERGROUND UTILITY OF WEST VIRGINIA, INC.
1-800-245-4848

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 25311. 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, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

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

EXISTING CONDITIONS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	2-10-2014
CAD File #	*-EXIST-COND

E2

PLOT DATE : 10/15/2014 11:24 AM FILE SAVED BY :BILLGERENCIR ON 10/15/2014 11:21 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-EXIST-COND.DWG

R1

R2

SHEET INDEX

TRAFFIC CONTROL NOTE:
CONTRACTOR TO USE CASE A6 FROM THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION. CONTRACTOR MUST PROVIDE ACCESS FOR RESIDENTS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MAY NOT "LANDLOCK" RESIDENTS DURING CONSTRUCTION.

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM OF 1983, SOUTH ZONE

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE
	EXISTING UNPAVED ROAD	W G	EXISTING WATER OR GAS METER
	EXISTING DRIVEWAY	WV GV	EXISTING WATER OR GAS VALVE
	EXISTING BUILDING		EXISTING SCATTERED TRASH/DEBRIS
	EXISTING STREAM/DITCH		EXISTING MINE PORTAL
	EXISTING CULVERT	1070	EXISTING CONTOUR
X X	EXISTING FENCE LINE		EXISTING TREELINE/BRUSHLINE
	EXISTING UTILITY POLE	S-1	WATER SAMPLE LOCATION
	EXISTING FIRE HYDRANT	10+00	PROPOSED BASELINE
	EXISTING LIGHT POLE	SW SW SW	PROPOSED STRAW WATTLES
STM STM STM	EXISTING STORM SEWER	SF SF SF	PROPOSED SILT FENCE
W W W	EXISTING WATER LINE		PROPOSED TEMPORARY PIPE AROUND
SAN SAN	EXISTING SANITARY SEWER	UD UD	PROPOSED UNDERDRAIN
E E E	EXISTING OVERHEAD ELECTRIC LINE	5+00	PROPOSED DRAINAGE CHANNEL
G G G G	EXISTING GAS LINE		PROPOSED LIMIT OF CONSTRUCTION
C C C C	EXISTING OVERHEAD CABLE LINE		PROPOSED LIMIT OF DISTURBANCE
T T T T	EXISTING OVERHEAD TELEPHONE LINE		PROPOSED ROCK CHECK DAM
E&C E&C	EXISTING OVERHEAD ELECTRIC/CABLE		PROPOSED TRIANGULAR SILT DIKE
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		PROPOSED SEDIMENT TRAP
E&T E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE		STABILIZED CONSTRUCTION ENTRANCE
C&T C&T C&T	EXISTING OVERHEAD CABLE/TELEPHONE		
UE UE	EXISTING UNDERGROUND ELECTRIC		
UT UT	EXISTING UNDERGROUND TELEPHONE		
UC UC	EXISTING UNDERGROUND CABLE		

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

36" CMP
INV. IN 1077.76'
INV. OUT 1077.14'

ROCK CHECK DAM (TYP.) (H/D2)

CHANNEL-B
BEGIN STA. = 0+00

36" HDPE
INV. IN 1085.74'
INV. OUT 1085.05'

SILT FENCE (TYP.) (B/D1)

CONLEY BRANCH ROAD

BASELINE-A

TEMPORARY SEDIMENT TRAP (TYP.) (D/D1)

STRAW WATTLES (TYP.) (A/D1)

130 LF. RIPRAP BANK PROTECTION INSTALLED AT A 2:1 SLOPE AVERAGE HEIGHT = 5' (B/D3)

TEMPORARY PIPE AROUND (TYP.) (A/D3)

SILT FENCE (TYP.) (B/D1)

LIMIT OF POTENTIAL SOIL BORROW AREA

SILT FENCE (TYP.) (B/D1)

CONLEY BRANCH

300 LF. RIPRAP BANK PROTECTION INSTALLED AT A 1.5:1 SLOPE AVERAGE HEIGHT =12' (B/D3)

TEMPORARY PIPE AROUND (TYP.) (A/D3)

RIPRAP DRIVE -THROUGH #1 (B/D2)

CONTRACTOR MUST LEAVE ACCESS ROAD IN AS GOOD OR BETTER CONDITION AT THE COMPLETION OF CONSTRUCTION

CHANNEL-B (A/P2)

SITE ACCESS

TRIANGULAR SILT DIKE (TYP.) (C/D1)

LIMIT OF DISTURBANCE

LIMIT OF CONSTRUCTION

CHANNEL-C
BEGIN STA. = 0+00

RIPRAP DRIVE -THROUGH #2 (B/D2)

CHANNEL-C (B/P2)

STRAW WATTLES (TYP.) (A/D1)

TRAILER

SHED

STRAW WATTLES (TYP.) (A/D1)

CHANNEL-D
BEGIN STA. = 0+00

TEMPORARY SEDIMENT TRAP (TYP.) (D/D1)

#901D29

TEMPORARY PIPE AROUND (TYP.) (A/D3)

WOOD RETAINING WALL WITH FENCE

1 STORY RES.

BARN

#901-10-0

STORY RES.

CHANNEL-B
END STA. = 5+20

CHANNEL-C
END STA. = 3+85

CHANNEL-E
END STA. = 2+45

CHANNEL-E (B/P3)

LIMIT OF POTENTIAL SOIL BORROW AREA

RIPRAP DRIVE -THROUGH #3 (B/D2)

CHANNEL-E
BEGIN STA. = 0+00

ROCK CHECK DAM (TYP.) (D/D1)

STRAW WATTLES (TYP.) (A/D1)

TRIANGULAR SILT DIKE (TYP.) (C/D1)

290 LF. RIPRAP BANK PROTECTION INSTALLED AT A 1.5:1 SLOPE AVERAGE HEIGHT =21' (B/D3)
APPROX. LOCATION 12" CMP
APPROX. INV. OUT = 1125'

CHANNEL-D (C/P2)

120 LF. GABION BASKETS (2 ROWS, 6' HEIGHT) (E/D3)

DIP (1%-2%)
STRIKE
PEERLESS COAL SEAM

GRAPHIC SCALE
0 25 50 100
1 INCH = 50 FEET

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 25311. 304-345-6712
FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWYER.

NOTE:
CONTRACTOR TO DETERMINE IF EXISTING 12" CMP IS ACTIVE STORM/DRAINAGE PIPE OR IF PIPE IS DEBRIS. IF PIPE IS DEBRIS, CONTRACTOR TO REMOVE AND DISPOSE OF AT AN APPROVED LANDFILL. IF PIPE IS ACTIVE STORM/DRAINAGE PIPE, CONTRACTOR SHALL LEAVE IN PLACE , DAYLIGHT AT FACE OF RIPRAP BANK PROTECTION AND MITER PIPE TO CONFORM TO SLOPE.

MATCH LINE SHEET R2

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

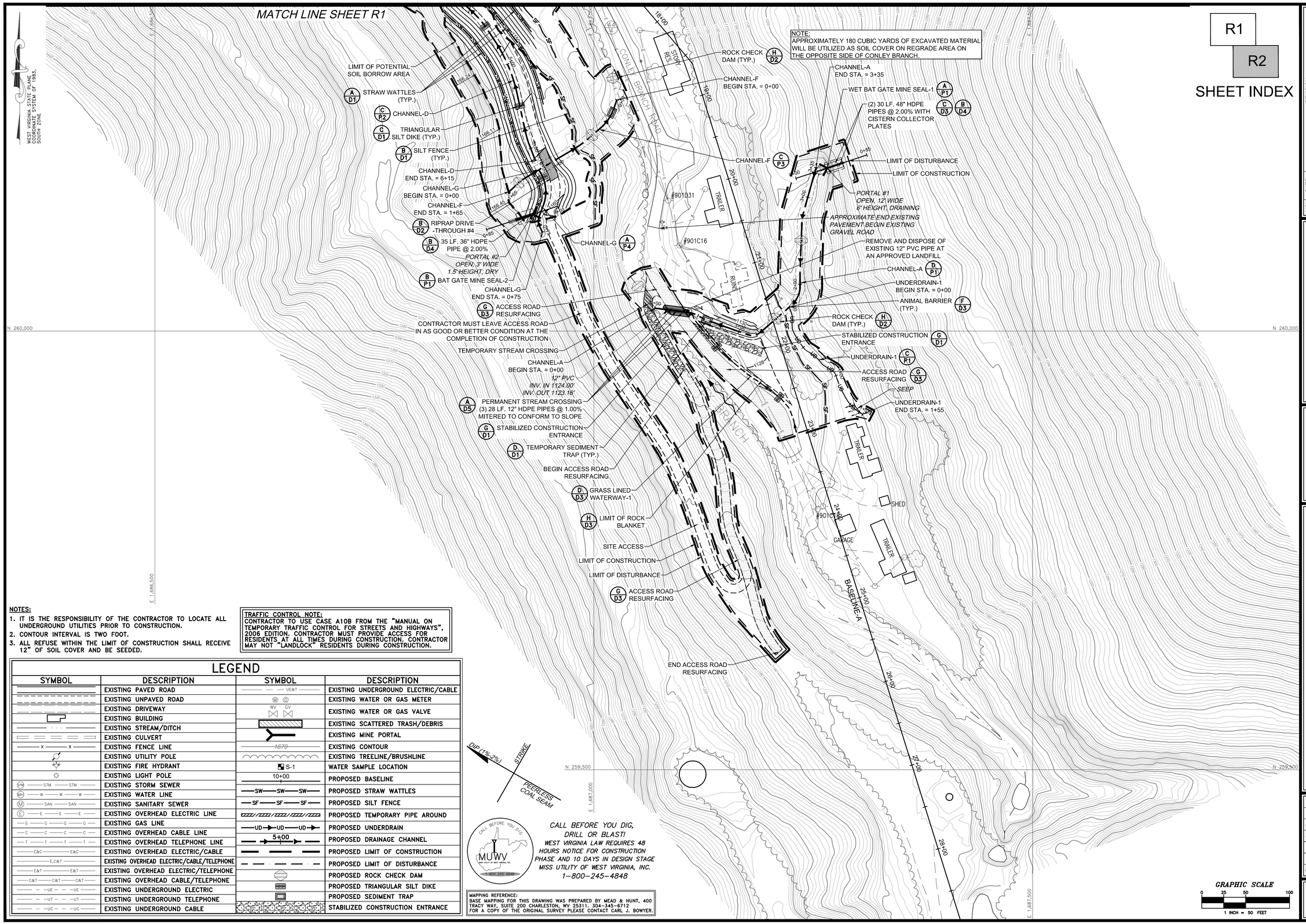
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

RECLAMATION PLAN
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	4-28-2014
CAD File #	*-REC-PLAN

R1

PLOT DATE : 10/15/2014 11:12 AM FILE SAVED BY :BILL.GERENCIR ON 10/15/2014 11:11 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-REC-PLAN.DWG



R1

R2

SHEET INDEX

NOTES:

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

TRAFFIC CONTROL NOTE:
CONTRACTOR TO USE CASE A10B FROM THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION. CONTRACTOR MUST PROVIDE ACCESS FOR RESIDENTS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MAY NOT "LANDLOCK" RESIDENTS DURING CONSTRUCTION.

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE
	EXISTING UNPAVED ROAD	W G	EXISTING WATER OR GAS METER
	EXISTING DRIVEWAY	WV CV	EXISTING WATER OR GAS VALVE
	EXISTING BUILDING		EXISTING SCATTERED TRASH/DEBRIS
	EXISTING STREAM/DITCH		EXISTING MINE PORTAL
	EXISTING CULVERT	1670	EXISTING CONTOUR
X X	EXISTING FENCE LINE		EXISTING TREELINE/BRUSHLINE
	EXISTING UTILITY POLE	S-1	WATER SAMPLE LOCATION
	EXISTING FIRE HYDRANT	10+00	PROPOSED BASELINE
	EXISTING LIGHT POLE	SW SW SW	PROPOSED STRAW WATTLES
STM STM STM	EXISTING STORM SEWER	SF SF SF	PROPOSED SILT FENCE
W W W	EXISTING WATER LINE		PROPOSED TEMPORARY PIPE AROUND
SAN SAN	EXISTING SANITARY SEWER	UD UD UD	PROPOSED UNDERDRAIN
E E E	EXISTING OVERHEAD ELECTRIC LINE	5+00	PROPOSED DRAINAGE CHANNEL
G G G	EXISTING GAS LINE		PROPOSED LIMIT OF CONSTRUCTION
C C C	EXISTING OVERHEAD CABLE LINE		PROPOSED LIMIT OF DISTURBANCE
T T T	EXISTING OVERHEAD TELEPHONE LINE		PROPOSED ROCK CHECK DAM
E&C E&C	EXISTING OVERHEAD ELECTRIC/CABLE		PROPOSED TRIANGULAR SILT DIKE
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE		PROPOSED SEDIMENT TRAP
E&T E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE		STABILIZED CONSTRUCTION ENTRANCE
C&T C&T C&T	EXISTING OVERHEAD CABLE/TELEPHONE		
UE UE	EXISTING UNDERGROUND ELECTRIC		
UT UT	EXISTING UNDERGROUND TELEPHONE		
UC UC	EXISTING UNDERGROUND CABLE		

MAPPING REFERENCE:
BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400 TRACY WAY, SUITE 200 CHARLESTON, WV 25311. 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, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

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

RECLAMATION PLAN
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	4-16-2014
CAD File #	*-REC-PLAN

R2

PLOT DATE : 10/15/2014 11:13 AM FILE SAVED BY :BILLGERENCIR ON 10/15/2014 11:11 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-REC-PLAN.DWG

T1

T2

SHEET INDEX

TRAFFIC CONTROL NOTE:
CONTRACTOR TO USE CASE A6 FROM THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION. CONTRACTOR MUST PROVIDE ACCESS FOR RESIDENTS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MAY NOT "LANDLOCK" RESIDENTS DURING CONSTRUCTION.

WEST VIRGINIA STATE PLANE COORDINATE SYSTEM OF 1983, SOUTH ZONE

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	WV GV	EXISTING WATER OR GAS VALVE
	EXISTING UNPAVED ROAD		EXISTING MINE PORTAL
	EXISTING DRIVEWAY	1670	EXISTING CONTOUR
	EXISTING BUILDING		EXISTING TREELINE/BRUSHLINE
	EXISTING STREAM/DITCH	S-1	WATER SAMPLE LOCATION
	EXISTING CULVERT	10+00	PROPOSED BASELINE
X X	EXISTING FENCE LINE	SW SW SW	PROPOSED STRAW WATTLES
	EXISTING UTILITY POLE	SF SF SF	PROPOSED SILT FENCE
	EXISTING FIRE HYDRANT		PROPOSED TEMPORARY PIPE AROUND
	EXISTING LIGHT POLE	UD UD UD	PROPOSED UNDERDRAIN
STM STM STM	EXISTING STORM SEWER	5+00	PROPOSED DRAINAGE CHANNEL
W W W	EXISTING WATER LINE		PROPOSED LIMIT OF CONSTRUCTION
SAN SAN	EXISTING SANITARY SEWER		PROPOSED LIMIT OF DISTURBANCE
E E E	EXISTING OVERHEAD ELECTRIC LINE		PROPOSED ROCK CHECK DAM
G G G G	EXISTING GAS LINE		PROPOSED TRIANGULAR SILT DIKE
C C C C	EXISTING OVERHEAD CABLE LINE		PROPOSED SEDIMENT TRAP
T T T T	EXISTING OVERHEAD TELEPHONE LINE		STABILIZED CONSTRUCTION ENTRANCE
E&C E&C	EXISTING OVERHEAD ELECTRIC/CABLE		PROPERTY LINE
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE	TM 11	TAX MAP NUMBER
E&T E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE	13	PARCEL NUMBER
C&T C&T C&T	EXISTING OVERHEAD CABLE/TELEPHONE		
UE UE	EXISTING UNDERGROUND ELECTRIC		
UT UT	EXISTING UNDERGROUND TELEPHONE		
UC UC	EXISTING UNDERGROUND CABLE		
UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE		
W G	EXISTING WATER OR GAS METER		
	EXISTING SCATTERED TRASH/DEBRIS		

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

TM 64 (14) TM 210 (11)
TM 64 (15)
TM 64 (25)
TM 210 (11)
TM 206 (15)
TM 63 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

36" CMP
INV. IN 1077.76'
INV. OUT 1077.14'

36" HDPE
INV. IN 1085.74'
INV. OUT 1085.05'

30' ROW

CONLEY BRANCH ROAD

BASELINE-A

CONLEY BRANCH

ROCK CHECK DAM (TYP.) (H/D2)
CHANNEL-B BEGIN STA. = 0+00
SILT FENCE (TYP.) (B/D1)
TEMPORARY SEDIMENT TRAP (TYP.) (D/D1)
STRAW WATTLES (TYP.) (A/D1)
130 LF. RIPRAP BANK PROTECTION INSTALLED AT A 2:1 SLOPE AVERAGE HEIGHT = 5' (B/D3)
TEMPORARY PIPE AROUND (TYP.) (A/D3)
SILT FENCE (TYP.) (B/D1)
LIMIT OF POTENTIAL SOIL BORROW AREA
SILT FENCE (TYP.) (B/D1)
300 LF. RIPRAP BANK PROTECTION INSTALLED AT A 1.5:1 SLOPE AVERAGE HEIGHT =12' (B/D3)
TEMPORARY PIPE AROUND (TYP.) (A/D3)
RIPRAP DRIVE -THROUGH #1 (B/D2)
CONTRACTOR MUST LEAVE ACCESS ROAD IN AS GOOD OR BETTER CONDITION AT THE COMPLETION OF CONSTRUCTION
CHANNEL-B (A/P2)
SITE ACCESS
TRIANGULAR SILT DIKE (TYP.) (C/D1)
LIMIT OF DISTURBANCE
LIMIT OF CONSTRUCTION
CHANNEL-C BEGIN STA. = 0+00
RIPRAP DRIVE -THROUGH #2 (B/D2)
CHANNEL-C (B/P2)
STRAW WATTLES (TYP.) (A/D1)
CHANNEL-B END STA. = 5+20
CHANNEL-C END STA. = 3+85
CHANNEL-E END STA. = 2+45
CHANNEL-E (B/P3)
LIMIT OF POTENTIAL SOIL BORROW AREA
RIPRAP DRIVE -THROUGH #3 (B/D2)
CHANNEL-E BEGIN STA. = 0+00
ROCK CHECK DAM (TYP.) (D/D1)
STRAW WATTLES (TYP.) (A/D1)
TRIANGULAR SILT DIKE (TYP.) (C/D1)
290 LF. RIPRAP BANK PROTECTION INSTALLED AT A 1.5:1 SLOPE AVERAGE HEIGHT =21' (B/D3)
APPROX. LOCATION 12" CMP
APPROX. INV. OUT = 1125'
CHANNEL-D (C/P2)
120 LF. GABION BASKETS (2 ROWS, 6' HEIGHT) (E/D3)
STRAW WATTLES (TYP.) (A/D1)
CHANNEL-D BEGIN STA. = 0+00
TEMPORARY SEDIMENT TRAP (TYP.) (D/D1)
TEMPORARY PIPE AROUND (TYP.) (A/D3)
WOOD RETAINING WALL WITH FENCE

TRAILER
SHED
#901D29
#901-10-D
1 STORY RES.
STORY RES.
BARN

N 261,000
N 260,500
E 1,686,000
E 1,686,500
E 1,687,000

DIP (1%-2%) STRIKE
PEERLESS COAL SEAM

GRAPHIC SCALE
0 25 50 100
1 INCH = 50 FEET

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

NOTE:
PROPERTY LINE AND ROAD NUMBER INFORMATION REPRESENTS AN APPROXIMATE BEST FIT ESTIMATE OF PROPERTY LINE BOUNDARIES AS OBTAINED FROM COUNTY TAX MAPS ACQUIRED THROUGH THE WEST VIRGINIA STATE TAX DEPARTMENT IN CHARLESTON, WEST VIRGINIA. PROPERTY LINES SET OUT AND DESIGNATED WITHIN THESE CONSTRUCTION PLANS DO NOT REPRESENT A TRUE AND ACCURATE PROPERTY BOUNDARY SURVEY.

NOTE:
CONTRACTOR TO DETERMINE IF EXISTING 12" CMP IS ACTIVE STORM/DRAINAGE PIPE OR IF PIPE IS DEBRIS. IF PIPE IS DEBRIS, CONTRACTOR TO REMOVE AND DISPOSE OF AT AN APPROVED LANDFILL. IF PIPE IS ACTIVE STORM/DRAINAGE PIPE, CONTRACTOR SHALL LEAVE IN PLACE , DAYLIGHT AT FACE OF RIPRAP BANK PROTECTION AND MITER PIPE TO CONFORM TO SLOPE.

MAPPING REFERENCE:
BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400 TRACY WAY, SUITE 200 CHARLESTON, WV 25311. 304-345-6712
FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWYER.

MATCH LINE SHEET T2

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

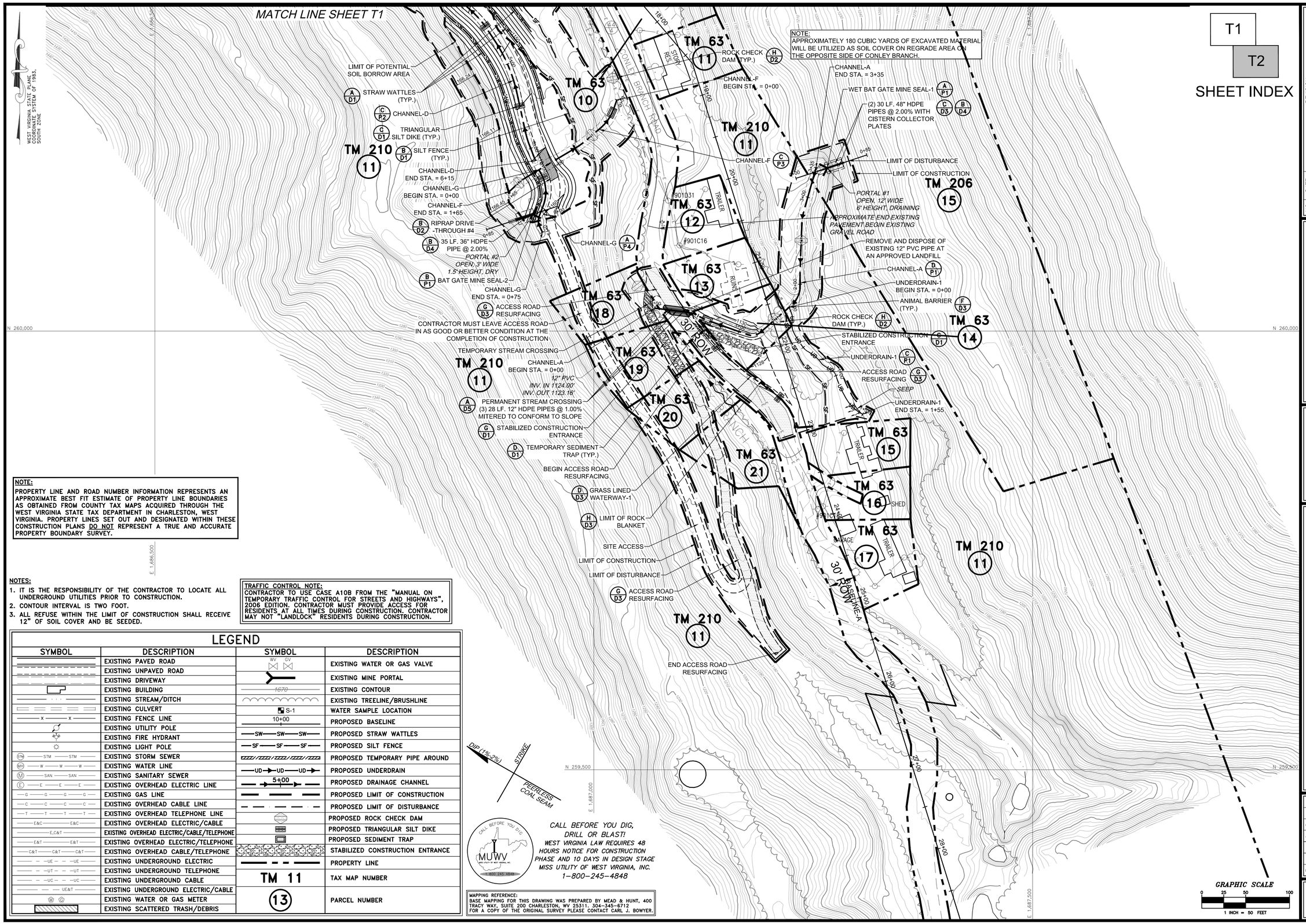
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

TAX MAP OVERLAY
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	4-28-2014
CAD File #	*-REC-PLAN

T1

PLOT DATE : 10/15/2014 11:16 AM FILE SAVED BY :BILL.GERENCIR ON 10/15/2014 11:11 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-REC-PLAN.DWG



NOTE:
PROPERTY LINE AND ROAD NUMBER INFORMATION REPRESENTS AN APPROXIMATE BEST FIT ESTIMATE OF PROPERTY LINE BOUNDARIES AS OBTAINED FROM COUNTY TAX MAPS ACQUIRED THROUGH THE WEST VIRGINIA STATE TAX DEPARTMENT IN CHARLESTON, WEST VIRGINIA. PROPERTY LINES SET OUT AND DESIGNATED WITHIN THESE CONSTRUCTION PLANS DO NOT REPRESENT A TRUE AND ACCURATE PROPERTY BOUNDARY SURVEY.

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

TRAFFIC CONTROL NOTE:
CONTRACTOR TO USE CASE A10B FROM THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION. CONTRACTOR MUST PROVIDE ACCESS FOR RESIDENTS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MAY NOT "LANDLOCK" RESIDENTS DURING CONSTRUCTION.

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXISTING PAVED ROAD	WV GV	EXISTING WATER OR GAS VALVE
	EXISTING UNPAVED ROAD		EXISTING MINE PORTAL
	EXISTING DRIVEWAY	1670	EXISTING CONTOUR
	EXISTING BUILDING		EXISTING TREELINE/BRUSHLINE
	EXISTING STREAM/DITCH	S-1	WATER SAMPLE LOCATION
	EXISTING CULVERT	10+00	PROPOSED BASELINE
x x	EXISTING FENCE LINE	SW SW SW	PROPOSED STRAW WATTLES
	EXISTING UTILITY POLE	SF SF SF	PROPOSED SILT FENCE
	EXISTING FIRE HYDRANT		PROPOSED TEMPORARY PIPE AROUND
	EXISTING LIGHT POLE	UD UD UD	PROPOSED UNDERDRAIN
STM STM	EXISTING STORM SEWER	5+00	PROPOSED DRAINAGE CHANNEL
MW W W W	EXISTING WATER LINE		PROPOSED LIMIT OF CONSTRUCTION
M SAN SAN	EXISTING SANITARY SEWER		PROPOSED LIMIT OF DISTURBANCE
E E E E	EXISTING OVERHEAD ELECTRIC LINE		PROPOSED ROCK CHECK DAM
G G G G	EXISTING GAS LINE		PROPOSED TRIANGULAR SILT DIKE
C C C C	EXISTING OVERHEAD CABLE LINE		PROPOSED SEDIMENT TRAP
T T T T	EXISTING OVERHEAD TELEPHONE LINE		STABILIZED CONSTRUCTION ENTRANCE
E&C E&C	EXISTING OVERHEAD ELECTRIC/CABLE		PROPERTY LINE
E,C&T	EXISTING OVERHEAD ELECTRIC/CABLE/TELEPHONE	TM 11	TAX MAP NUMBER
E&T E&T	EXISTING OVERHEAD ELECTRIC/TELEPHONE	13	PARCEL NUMBER
C&T C&T C&T	EXISTING OVERHEAD CABLE/TELEPHONE		
UE UE	EXISTING UNDERGROUND ELECTRIC		
UT UT	EXISTING UNDERGROUND TELEPHONE		
UC UC	EXISTING UNDERGROUND CABLE		
UE&T	EXISTING UNDERGROUND ELECTRIC/CABLE		
	EXISTING WATER OR GAS METER		
	EXISTING SCATTERED TRASH/DEBRIS		

MAPPING REFERENCE:
BASE MAPPING FOR THIS DRAWING WAS PREPARED BY MEAD & HUNT, 400 TRACY WAY, SUITE 200 CHARLESTON, WV 25311. 304-345-6712
FOR A COPY OF THE ORIGINAL SURVEY PLEASE CONTACT CARL J. BOWYER.

T1
T2
SHEET INDEX

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

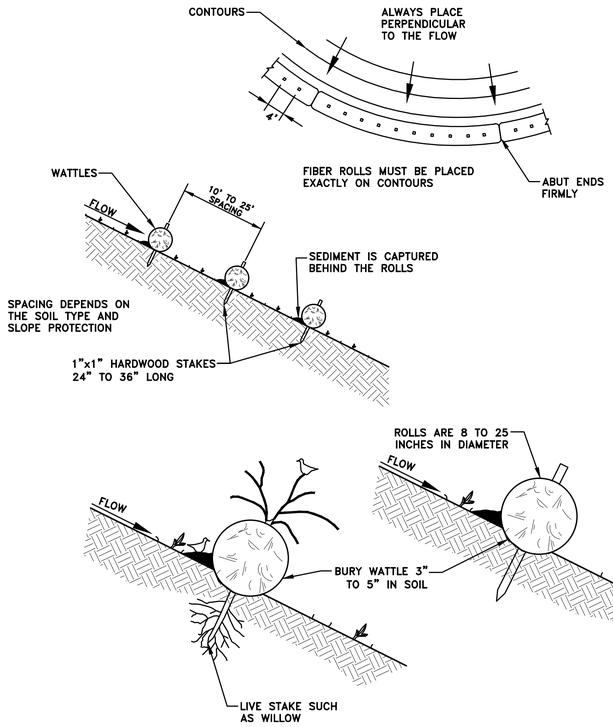
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

TAX MAP OVERLAY
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

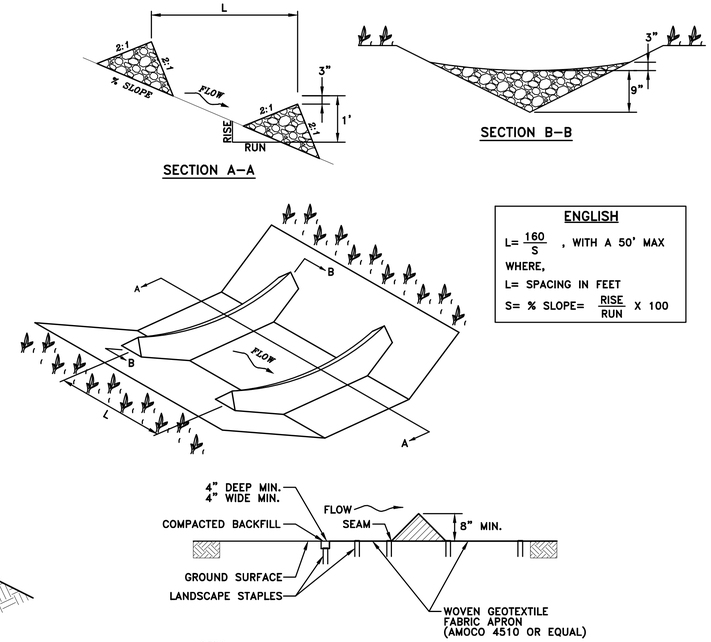
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50'
Date:	4-28-2014
CAD File #	*-REC-PLAN

T2

PLOT DATE : 10/15/2014 11:17 AM FILE SAVED BY :BILLGERENCIR ON 10/15/2014 11:11 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-REC-PLAN.DWG



A STRAW WATTLE ANCHORING/ENTRENCHMENT DETAIL
NO SCALE



ENGLISH

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

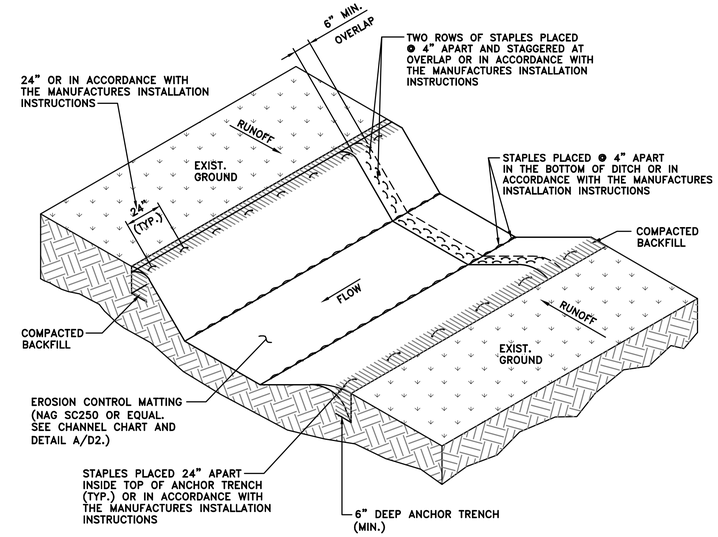
WHERE,

L= SPACING IN FEET

S= % SLOPE= $\frac{RISE}{RUN}$ X 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

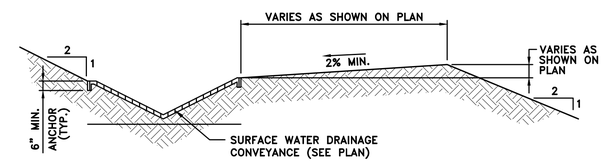


NOTES:

SEED, LIME, & FERTILIZE DITCH IMMEDIATELY BEFORE DEPLOYING EROSION CONTROL MATTING.

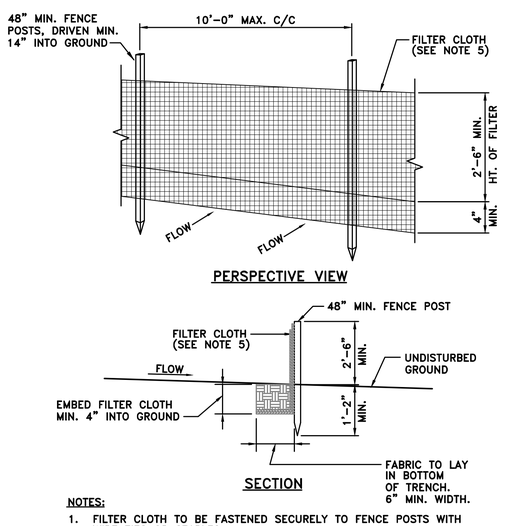
8" 9 GA. "U" STAPLES TO BE USED IN LOOSE OR ROCKY SOILS OR IN ACCORDANCE WITH THE MANUFACTURES INSTALLATION INSTRUCTIONS

E EROSION CONTROL MATTING DETAIL
NO SCALE



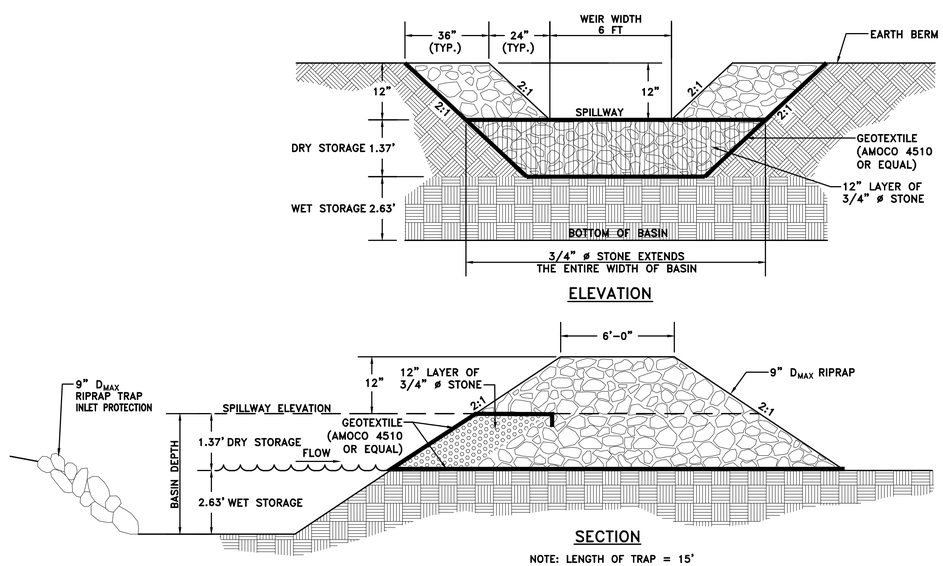
SECTION

F ECM ON BENCH DETAIL
NO SCALE



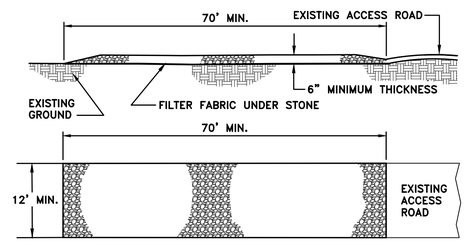
NOTES:
1. FILTER CLOTH TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED PRIOR TO "BULGING" OF SILT FENCE. SILT FENCE 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



NOTE: LENGTH OF TRAP = 15'

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



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.
6. THE MAXIMUM ALLOWABLE DRIVEWAY WIDTH SHALL BE 25 FEET. THE CONTRACTOR SHALL KEEP THE WIDTH TO THE MINIMUM NECESSARY FOR OPERATIONS, 12 FEET MINIMUM.

G STABILIZED CONSTRUCTION ENTRANCE DETAIL
NO SCALE

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755–8291 FAX 755–2636
www.terradon.com

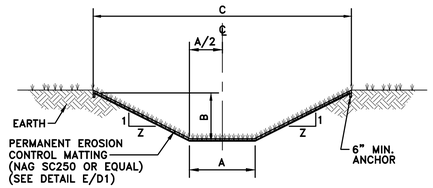
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

MISCELLANEOUS DETAILS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01–5055–001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	NTS
Date:	4–16–2014
CAD File #	*–MISC–DETAILS

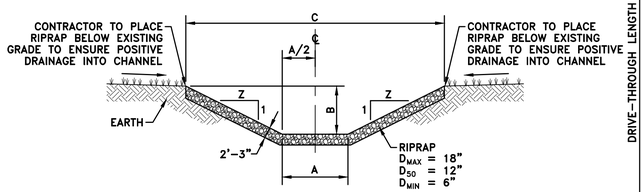
D1

PLOT DATE : 4/16/2014 3:33 PM FILE SAVED BY :BILLGERENCIR ON 4/16/2014 11:10 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-DETAILS.DWG



NOTE: INSTALL EROSION CONTROL MATTING PER MANUFACTURER'S RECOMMENDATIONS.

TYPICAL GRASS LINED SECTION (TYPE 1)



TYPICAL RIPRAP SECTION (TYPE 2)

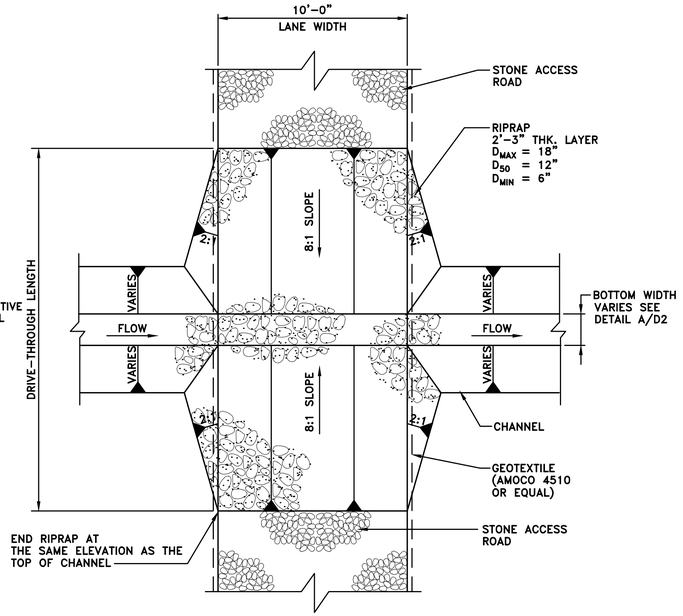
CHANNEL	TYPE	LINING	BEG STA	END STA	LENGTH	A	B	C	Z
A	2	RR	0+00	0+10.90	10.90	4	1.5	10	2
A	N/A	(3) 12" HDPE PIPES	0+10.90	0+38.90	28.00	N/A	N/A	N/A	N/A
A	2	RR	0+38.90	1+22.77	83.87	4	1.5	10	2
A	2	RR	1+22.77	1+32.77	10	4	TRANS.	TRANS.	2
A	2	RR	1+32.77	1+82.58	49.81	4	1.0	8	2
A	2	RR	1+82.58	1+92.58	10	4	TRANS.	TRANS.	2
A	2	RR	1+92.58	3+35	142.42	4	1.5	10	2
B	2	RR	0+00	0+20.76	20.76	4	2.0	12	2
B	2	RR	0+20.76	0+30.76	10	TRANS.	2.0	TRANS.	2
B	2	RR	0+30.76	0+64.67	33.91	0	2.0	8	2
B	2	RR	0+64.67	0+74.67	10	0	2.0	TRANS.	TRANS.
B	2	DRIVE-THROUGH #1	0+74.67	0+88.15	13.48	0	2.0	32	8
B	2	RR	0+88.15	0+98.15	10	0	2.0	TRANS.	TRANS.
B	2	RR	0+98.15	1+20	21.85	0	2.0	8	2
B	1	ECM	1+20	2+55	135	0	2.0	8	2
B	1	ECM	2+55	2+65	10	0	TRANS.	TRANS.	2
B	1	ECM	2+65	5+20	255	0	1.5	6	2
C	1	ECM	0+00	0+05.98	5.98	0	2.0	8	2
C	1	ECM	0+05.98	0+15.98	10	0	2.0	TRANS.	TRANS.
C	2	DRIVE-THROUGH #2	0+15.98	0+28.26	12.28	0	2.0	32	8
C	1	ECM	0+28.26	0+38.26	10	0	2.0	TRANS.	TRANS.
C	1	ECM	0+38.26	3+85	346.74	0	2.0	8	2
D	2	RR	0+00	0+09.94	9.94	4	1.5	10	2
D	2	RR	0+09.94	0+19.94	10	TRANS.	1.5	TRANS.	2
D	2	RR	0+19.94	0+74.40	54.46	0	1.5	6	2
D	2	RR	0+74.40	0+82.30	7.90	0	TRANS.	TRANS.	2
D	2	RR	0+82.30	0+93.34	11.04	0	2.0	TRANS.	TRANS.
D	2	DRIVE-THROUGH #3	0+93.34	1+04.02	10.68	0	2.0	32	8
D	2	RR	1+04.02	1+14.02	10	0	2.0	TRANS.	TRANS.
D	1	ECM	1+14.02	6+15	500.98	0	2.0	8	2
E	2	RR	0+00	0+10	10	0	2.0	8	2
E	1	ECM	0+10	2+45	235	0	2.0	8	2
F	2	RR	0+00	0+26.43	26.43	4	2.0	12	2
F	2	RR	0+26.43	0+36.43	10	4	TRANS.	TRANS.	2
F	2	RR	0+36.43	0+95.84	59.41	4	1.5	10	2
F	2	RR	0+95.84	1+05.84	10	4	TRANS.	TRANS.	TRANS.
F	2	DRIVE-THROUGH #4	1+05.84	1+15.85	10.01	4	2.0	36	8
F	2	RR	1+15.85	1+25.85	10	4	2.0	TRANS.	TRANS.
F	2	RR	1+25.85	1+65	39.15	4	2.0	12	2
G	2	RR	0+00	0+10	10	0	1.5	6	2
G	1	ECM	0+10	0+75	65	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.

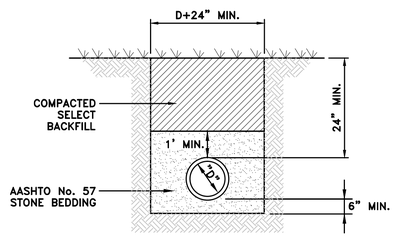
ECM = PERMANENT EROSION CONTROL LINED CHANNEL
RR = RIPRAP CHANNEL
TRANS. = TRANSITION

CHANNEL CHART

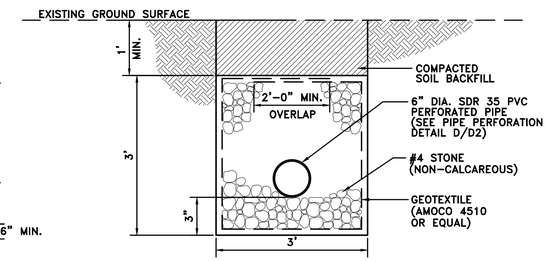
A CHANNEL DETAILS
NO SCALE



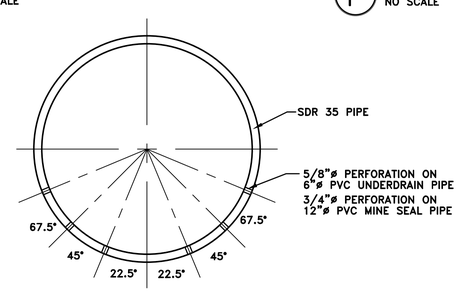
B RIPRAP DRIVE-THROUGH DETAIL
NO SCALE



C PIPE BEDDING DETAIL
NO SCALE

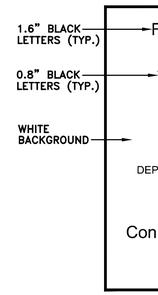


F 6" UNDERDRAIN DETAIL
NO SCALE



NOTES:
1. ON 6"ø 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.
2. ON 12"ø 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.
3. PIPE SHALL BE PLACED WITH PERFORATIONS DOWN.
4. ALL ANGLES TAKEN FROM VERTICAL.

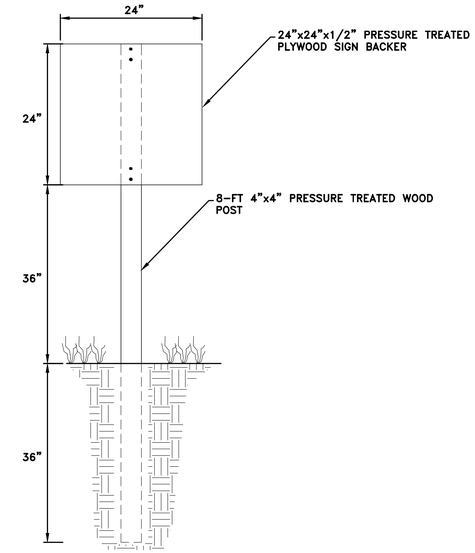
D PIPE PERFORATION DETAIL
NO SCALE

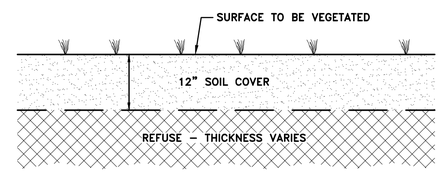


1. OWNER SHALL INSTALL SIGN AT THE TIME OF PERMIT APPLICATION. SIGN SHALL BE FABRICATED FROM WEATHERPROOF MATERIAL OR LAMINATED TO PROTECT FROM THE ELEMENTS.

2. CONTRACTOR TO MAINTAIN SIGN AT ALL TIMES DURING CONSTRUCTION. SIGN MAY BE RELOCATED TO ACCOMMODATE CONSTRUCTION BUT THE SIGN MUST REMAIN PROMINENTLY DISPLAYED AT ALL TIMES.

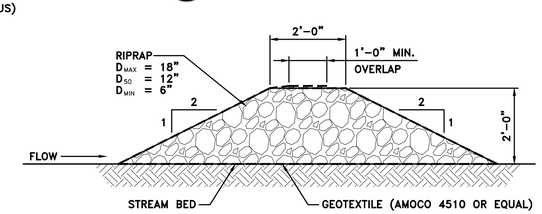
E PUBLIC NOTICE SIGN
NOT TO SCALE (PUB-NOTICE-SIGN.DWG)





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.

G SOIL COVER DETAIL
NO SCALE



H ROCK CHECK DAM DETAIL
NO SCALE

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

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

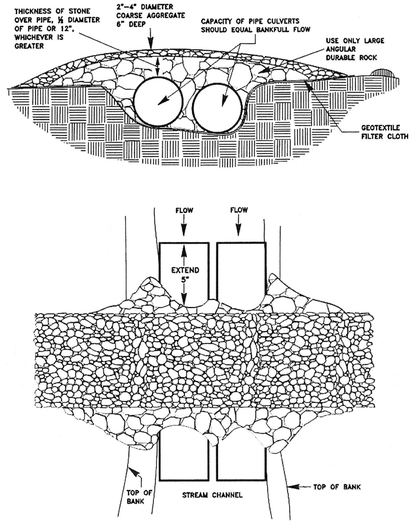
MISCELLANEOUS DETAILS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	NTS
Date:	2-10-2014
CAD File #	*-MISC-DETAILS

D2

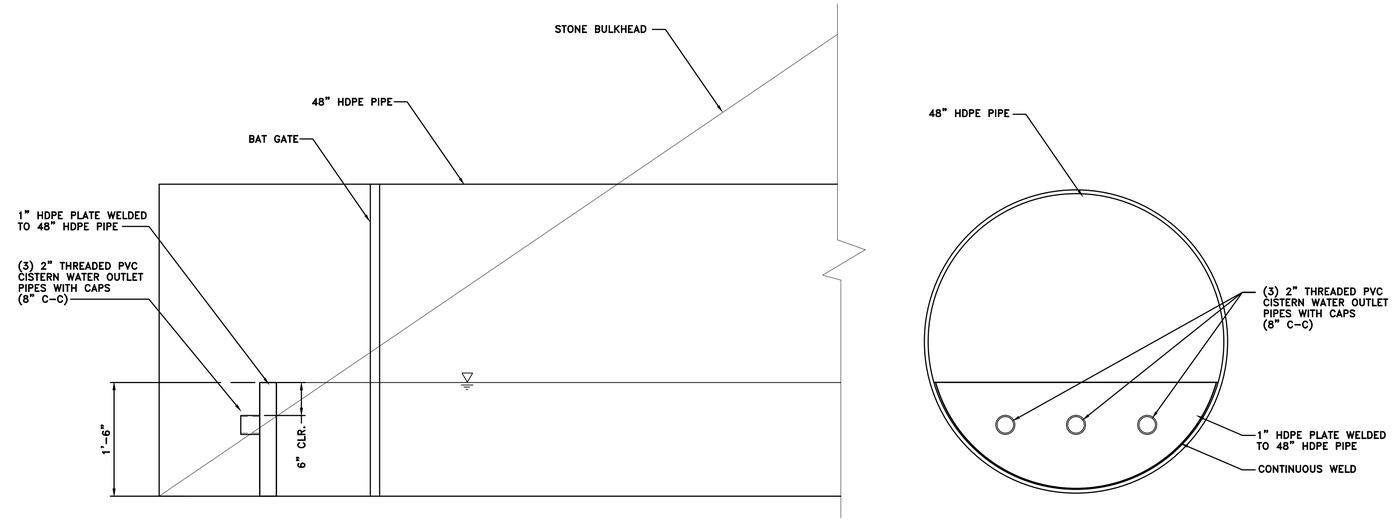
PLOT DATE : 10/15/2014 11:26 AM FILE SAVED BY :BILL.GERENCIR ON 10/15/2014 10:53 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-DETAILS.DWG

TRAFFIC CONTROL NOTE:
CONTRACTOR TO USE CASE A6 FROM THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION. CONTRACTOR MUST PROVIDE ACCESS FOR RESIDENTS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MAY NOT "LANDLOCK" RESIDENTS DURING CONSTRUCTION.



NOTES:
1. ALL PIPES AND STONE FOR TEMPORARY PIPE AROUND ARE TO BE REMOVED FROM STREAM AT THE COMPLETION OF CONSTRUCTION.
2. ALL TEMPORARY PIPE CONFIGURATIONS MUST HAVE A TOTAL CROSS SECTIONAL AREA OF 22 SQ. FT. (MIN.) AND CONSIST OF TWO CULVERTS (MIN.).

A TEMPORARY PIPE AROUND DETAIL
NO SCALE

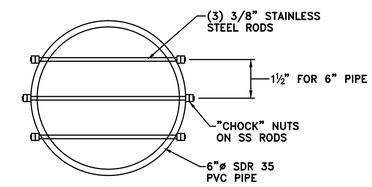


RIGHT SIDE VIEW

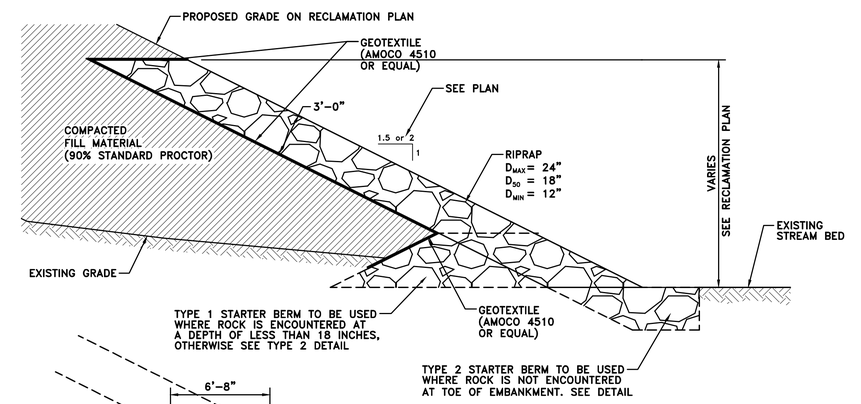
END VIEW

NOTES:
1. PVC CAPS ARE TO BE INSTALLED ON OUTSIDE OF CISTERN FOR WATERLINE TAP BY PROPERTY OWNERS.
2. CONTRACTOR TO COORDINATE WATERLINE TAP WITH PROPERTY OWNERS UPON COMPLETION OF PROJECT.
3. PROPERTY OWNERS ARE RESPONSIBLE FOR RUNNING WATERLINE TO CISTERN LOCATION AND MAKING CONNECTION.
4. TYPICAL FOR BOTH 48" HDPE PIPES.

C CISTERN COLLECTOR PLATE DETAIL
NO SCALE



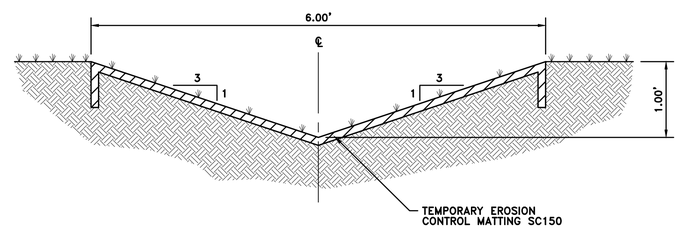
F 6" ANIMAL BARRIER DETAIL
NO SCALE



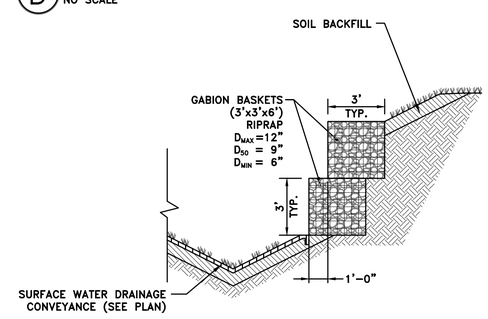
TYPE 1 STARTER BERM DETAIL
NO SCALE

TYPE 2 STARTER BERM DETAIL
NO SCALE

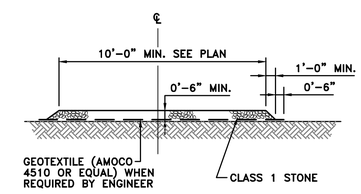
B RIPRAP BANK PROTECTION DETAIL
NO SCALE



D GRASS LINE WATERWAY DETAIL
NO SCALE

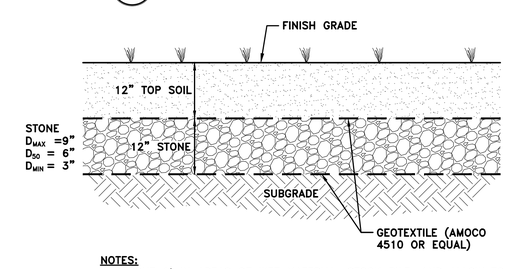


E GABION BASKET DETAIL
NO SCALE



NOTE: GEOTEXTILE IS TO BE USED WHERE IMPRACTICAL TO UNDERCUT SOFT SUBGRADE AND SHALL BE APPROVED BY THE ENGINEER.

G ACCESS ROAD RESURFACING DETAIL
NO SCALE



NOTES:
UNDERCUT 1' IN AREAS OF WET MATERIAL, STOCK PILE, AND ALLOW TO DRY BEFORE BEING RESPREAD OVER 12" STONE LAYER AS TOPSOIL.

H ROCK BLANKET DETAIL
NO SCALE

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

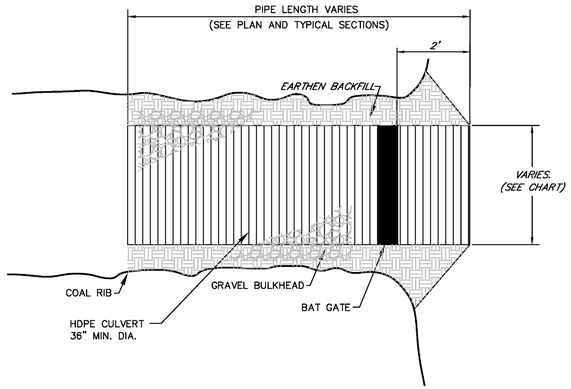
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

MISCELLANEOUS DETAILS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

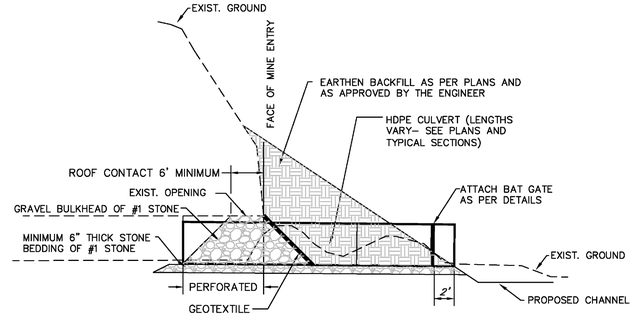
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	NTS
Date:	4-28-2014
CAD File #	*-MISC-DETAILS

D3

PLOT DATE : 4/28/2014 1:53 PM FILE SAVED BY :BILLGERENCIR ON 4/28/2014 1:52 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-DETAILS.DWG

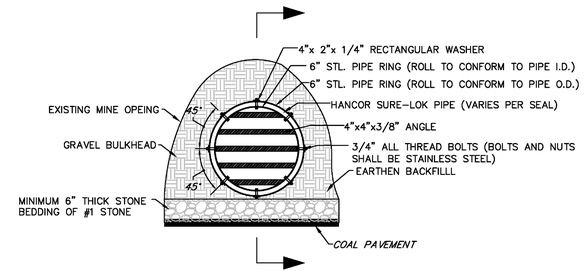


PLAN

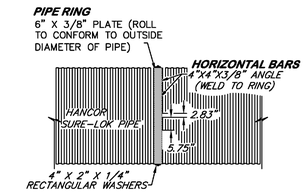


THE HDPE CULVERT, SHALL BE INSTALLED AT A 2% MINMUM GRADE, TYPICAL OF ALL.

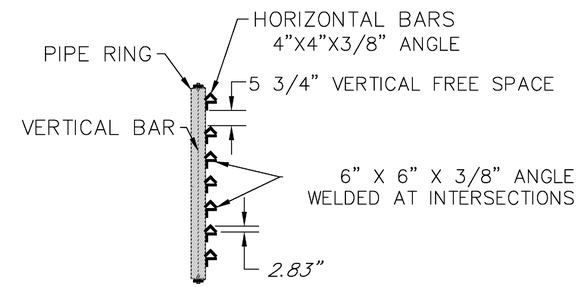
BAT GATE MINE SEAL
(A) TYPICAL CONSTRUCTION DETAILS
NO SCALE (APPLICABLE TO ALL BAT GATES)



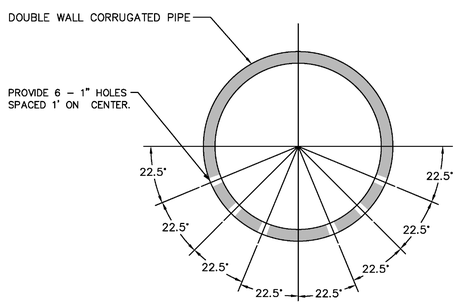
END VIEW



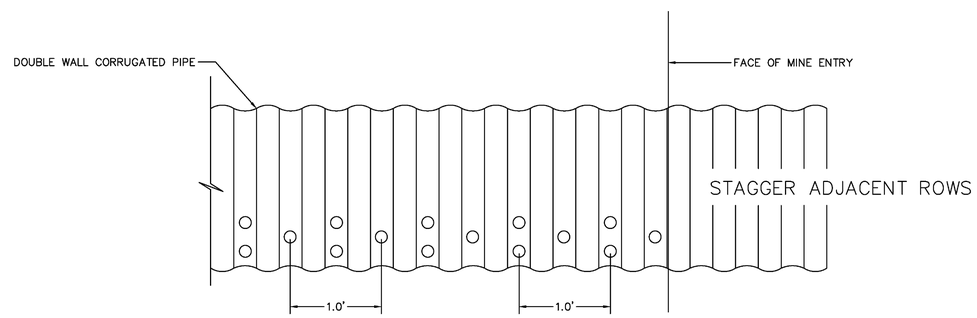
PIPE RING SECTION



VERTICAL BAR SIDE VIEW



NOTE; PERFORATE ON PIPE WALLS NOT ON RIBS.

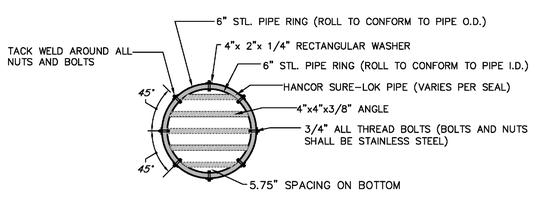


NOTE; PERFORATE ON PIPE WALLS NOT ON RIBS.

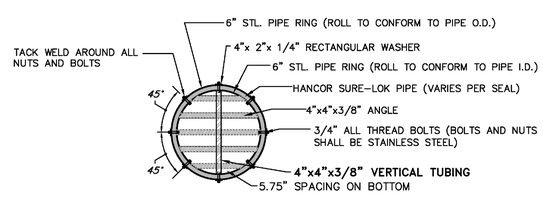
PERFORATION DETAIL

CONLEY BRANCH (WHITT) LANDSLIDE							
BAT GATE SIZING CHART							
PORTAL #	EXISTING OPENING			EXISTING OPENING	PROPOSED PIPE	PROPOSED #	PROPOSED OPENING
	SIZE (FT.)			AREA (SQ. FT.)	SIZE (IN.)	PIPES	AREA (SQ. FT.)
	WIDTH		HEIGHT				
1	12	X	6	72.00	48	2	25.13
2	3	X	1.5	4.50	36	1	7.07

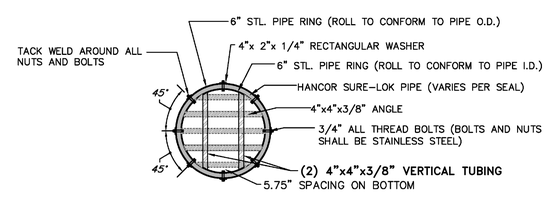
(B) BAT GATE SIZING CHART
NO SCALE



GATE DETAIL
(CULVERT 36"–42" DIA)



GATE DETAIL
(CULVERT 48"–60")



GATE DETAIL
(CULVERT GREATER THAN 60" DIA)

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755–8291 FAX 755–2636
www.terradon.com

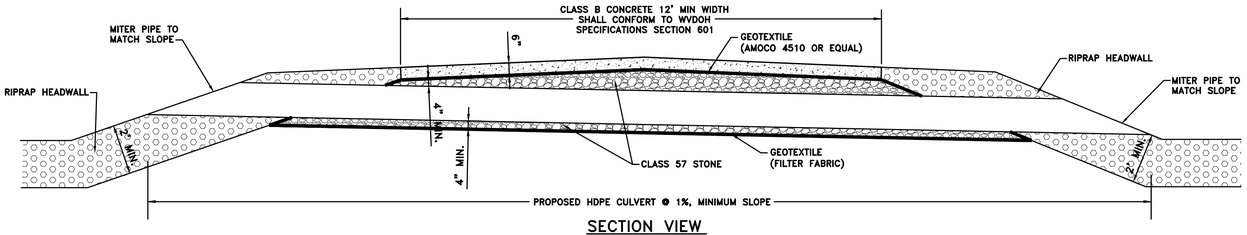
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

MISCELLANEOUS DETAILS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

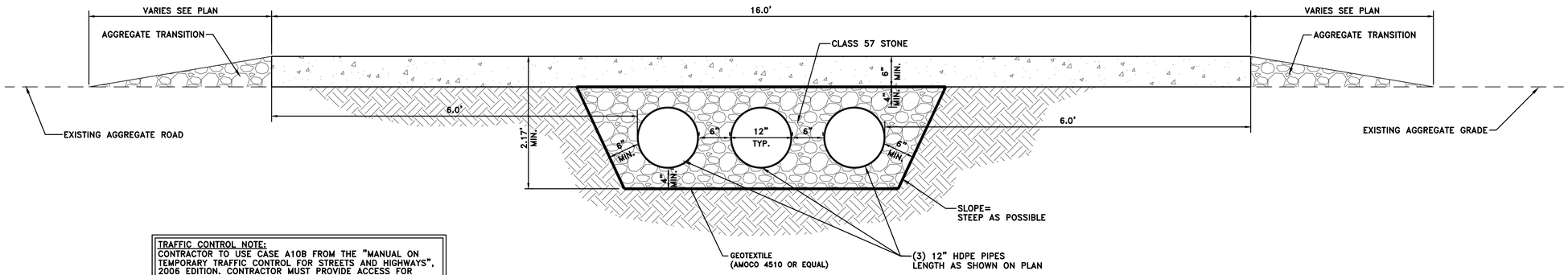
Project No.	01–5055–001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	NTS
Date:	2–10–2014
CAD File #	*–MISC–DETAILS

D4

PLOT DATE : 2/7/2014 4:10 PM FILE SAVED BY :BILL.GERENCIR ON 2/7/2014 3:23 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-DETAILS.DWG



SECTION VIEW



END VIEW

TRAFFIC CONTROL NOTE:
CONTRACTOR TO USE CASE A10B FROM THE "MANUAL ON TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS", 2006 EDITION. CONTRACTOR MUST PROVIDE ACCESS FOR RESIDENTS AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR MAY NOT "LANDLOCK" RESIDENTS DURING CONSTRUCTION.

NOTES:
1. GEOTEXTILE (FILTER FABRIC) SHALL ENCLOSE THE CLASS 57 STONE SURROUNDING THE DRAINAGE PIPE WITH A 2' MINIMUM OVERLAP AT ALL SEAMS.

(A) PERMANENT STREAM CROSSING DETAIL
NO SCALE

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

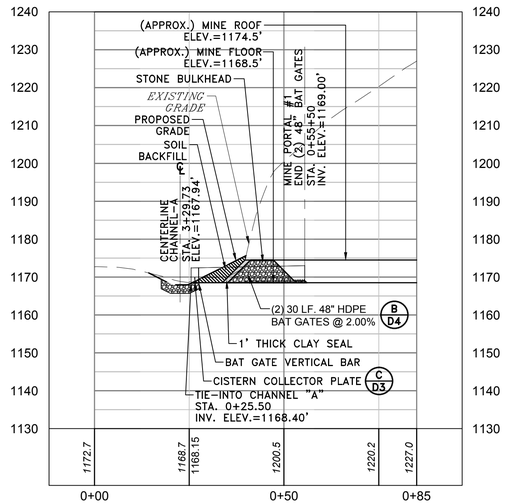
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

MISCELLANEOUS DETAILS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	NTS
Date:	4-16-2014
CAD File #	*-MISC-DETAILS

D5

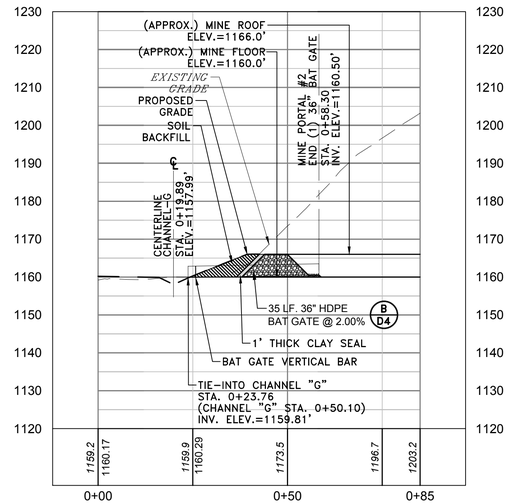
PLOT DATE : 4/16/2014 3:34 PM FILE SAVED BY :BILL.GERENCIR ON 4/16/2014 3:34 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-DETAILS.DWG



WET BAT GATE MINE SEAL-1 PROFILE

(A) STA. 0+00 TO STA. 0+85

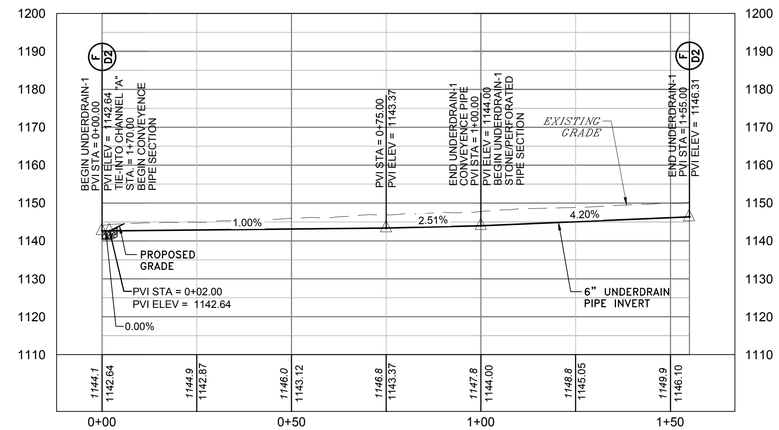
SCALE: 1" = 20' H&V



BAT GATE MINE SEAL-2 PROFILE

(B) STA. 0+00 TO STA. 0+85

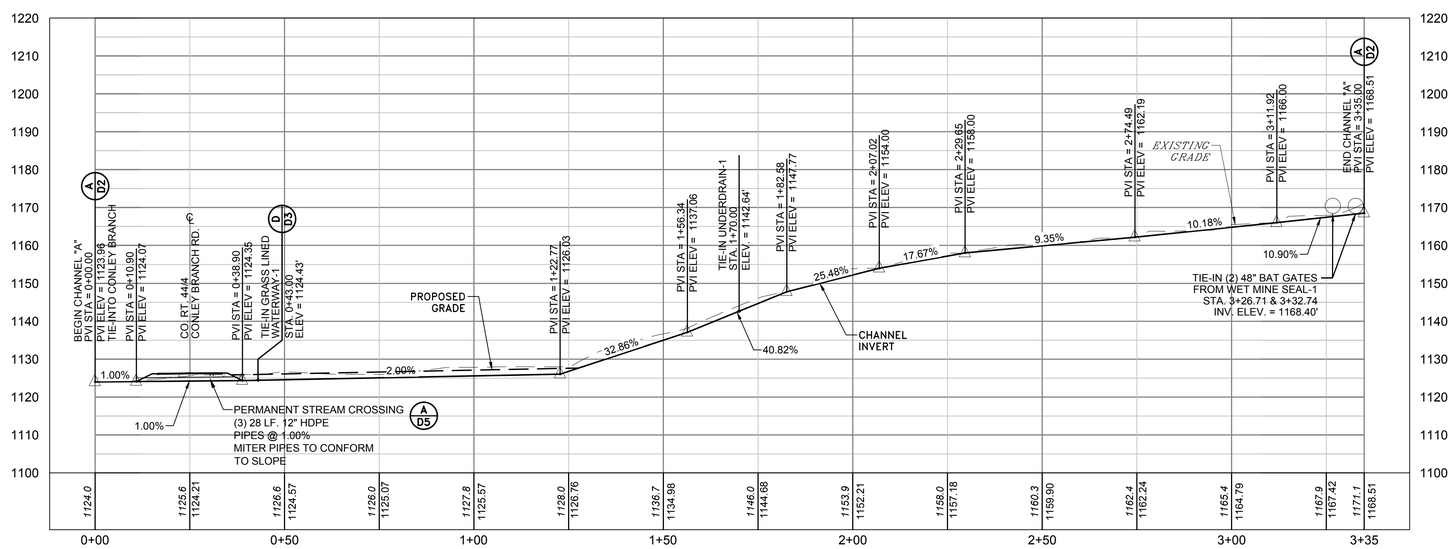
SCALE: 1" = 20' H&V



UNDERDRAIN-1 PROFILE

(C) STA. 0+00 TO STA. 1+55

SCALE: 1" = 20' H&V



CHANNEL-A PROFILE

(D) STA. 0+00 TO STA. 3+35

SCALE: 1" = 20' H&V

GRAPHIC SCALE

0 25 50 100

1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION

Engineering • Surveying • Landscape Architecture

P.O. Box 519

Nitro, West Virginia 25143

(304) 755-8291 FAX 755-2636

www.terradon.com

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

MINE SEAL, UNDERDRAIN & CHANNEL PROFILES

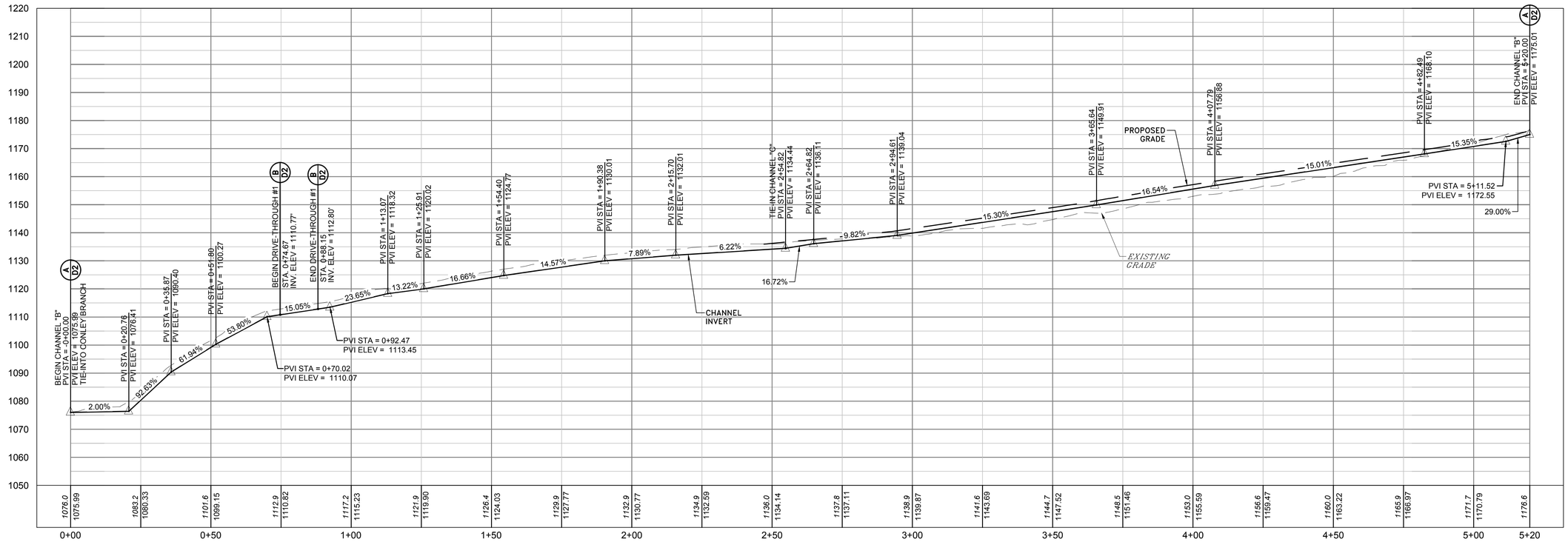
CONLEY BRANCH (WHITT) LANDSLIDE

LOGAN COUNTY, WEST VIRGINIA

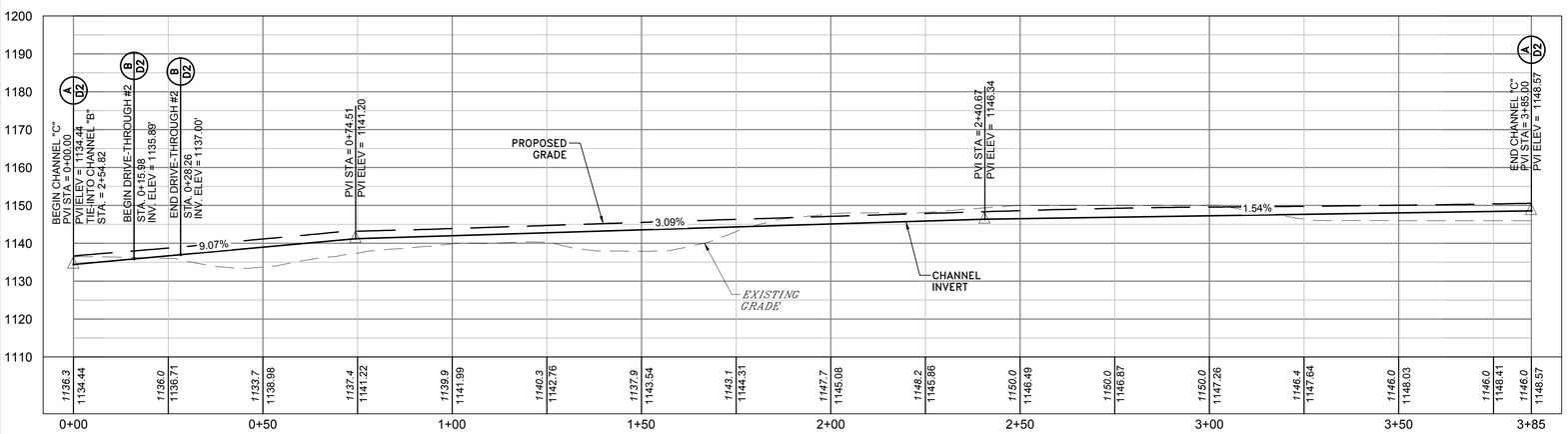
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=20' H&V
Date:	2-10-2014
CAD File #	*-PROFILES

P1

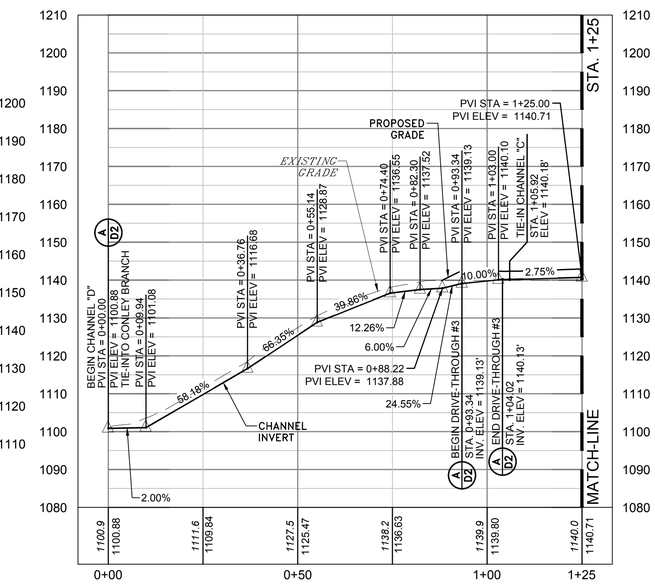
PLOT DATE : 2/7/2014 4:55 PM FILE SAVED BY :BILL.GERENCIR ON 2/7/2014 4:37 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-PROFILES.DWG



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



CHANNEL-C PROFILE
(B) STA. 0+00 TO STA. 3+85
SCALE: 1" = 20' H&V



CHANNEL-D PROFILE
(C) STA. 0+00 TO STA. 1+25
SCALE: 1" = 20' H&V

GRAPHIC SCALE
0 25 50 100
1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

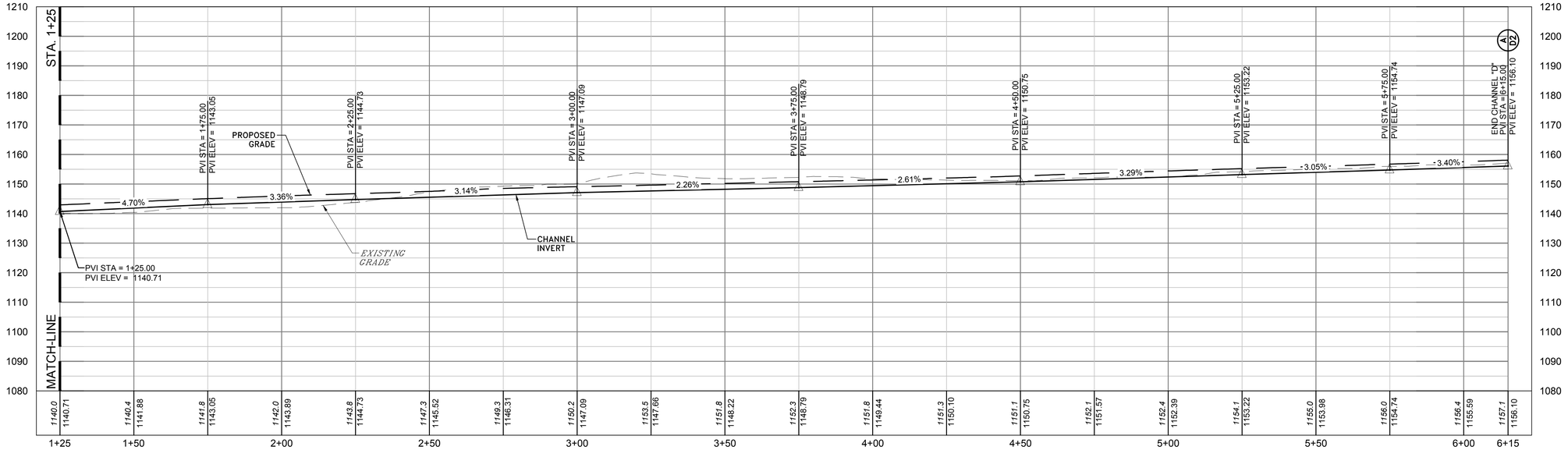
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

CHANNEL PROFILES
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=20' H&V
Date:	2-10-2014
CAD File #	*-PROFILES

P2

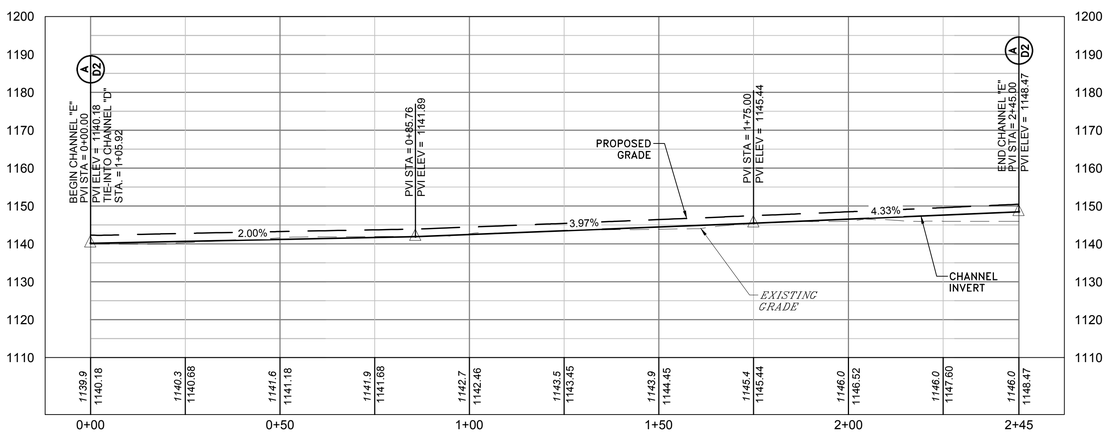
PLOT DATE : 2/7/2014 4:56 PM FILE SAVED BY :BILL.GERENCIR ON 2/7/2014 4:56 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-PROFILES.DWG



CHANNEL-D PROFILE

(A) STA. 1+25 TO STA. 6+15

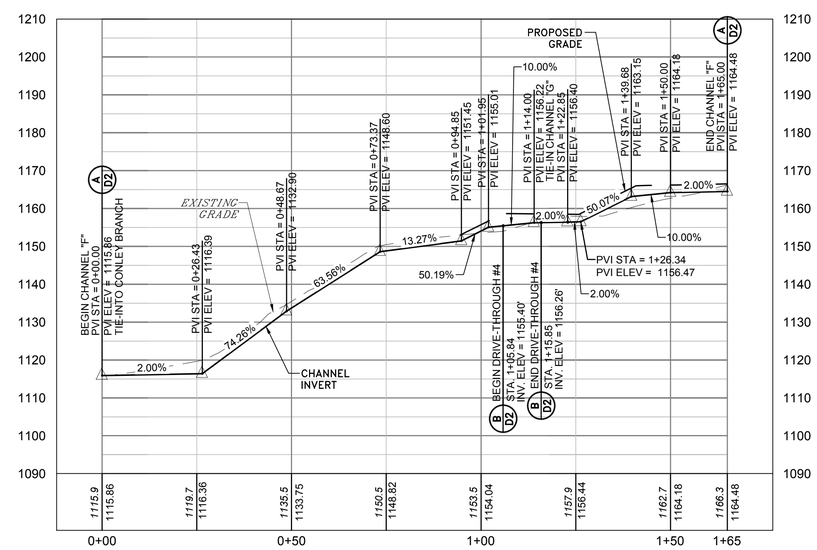
SCALE: 1" = 20' H&V



CHANNEL-E PROFILE

(B) STA. 0+00 TO STA. 2+45

SCALE: 1" = 20' H&V



CHANNEL-F PROFILE

(C) STA. 0+00 TO STA. 1+65

SCALE: 1" = 20' H&V

GRAPHIC SCALE

0 25 50 100

1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

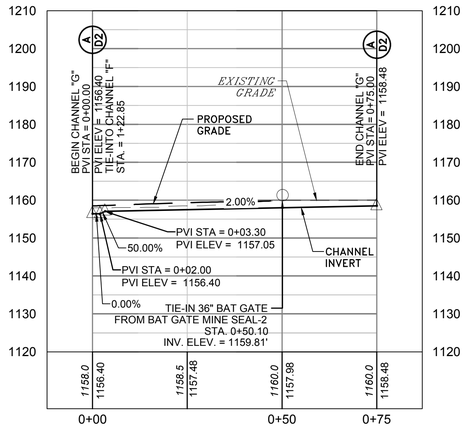
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

CHANNEL PROFILES
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=20' H&V
Date:	12-20-2013
CAD File #	*-PROFILES

P3

PLOT DATE : 2/7/2014 5:17 PM FILE SAVED BY :BILL.GERENCIR ON 2/7/2014 4:56 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-PROFILES.DWG



CHANNEL-G PROFILE

A STA. 0+00 TO STA. 0+75

SCALE: 1" = 20' H&V

GRAPHIC SCALE

0 25 50 100

1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION

Engineering • Surveying • Landscape Architecture

P.O. Box 519

Nitro, West Virginia 25143

(304) 755-8291 FAX 755-2636

www.terradon.com

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

CHANNEL PROFILES

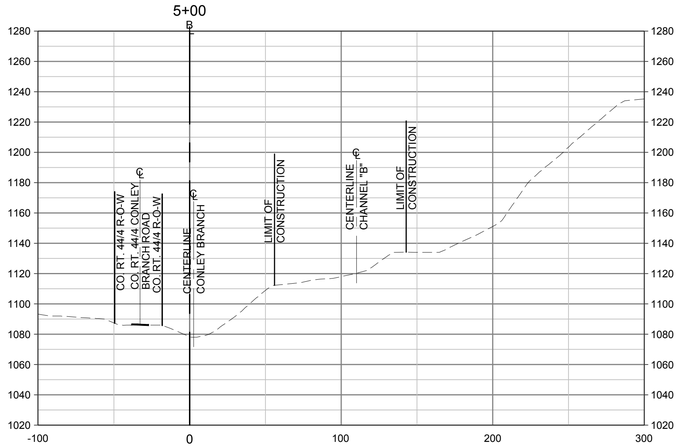
CONLEY BRANCH (WHITT) LANDSLIDE

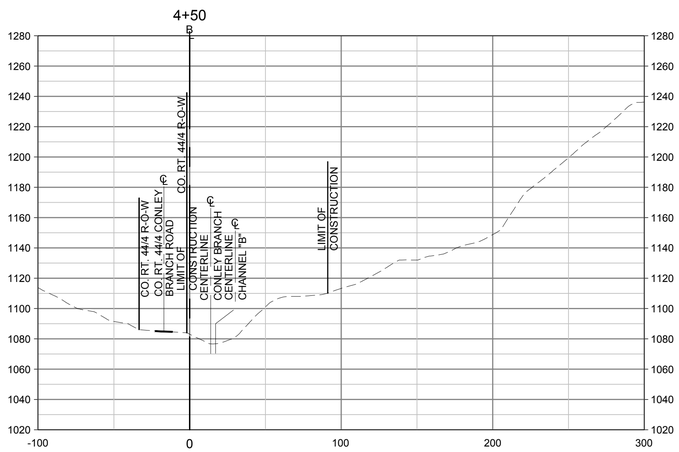
LOGAN COUNTY, WEST VIRGINIA

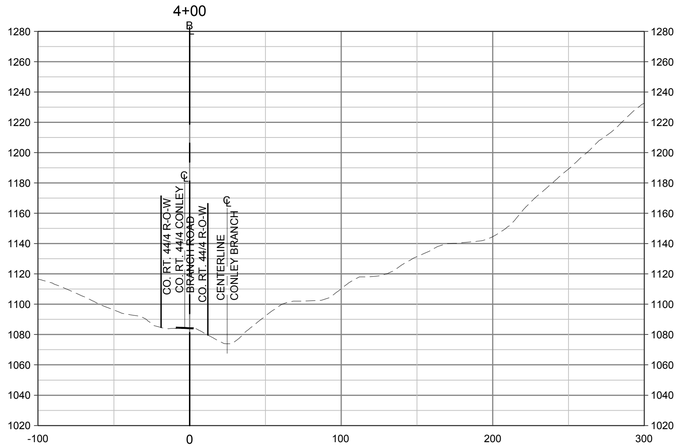
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=20' H&V
Date:	12-20-2013
CAD File #	*-PROFILES

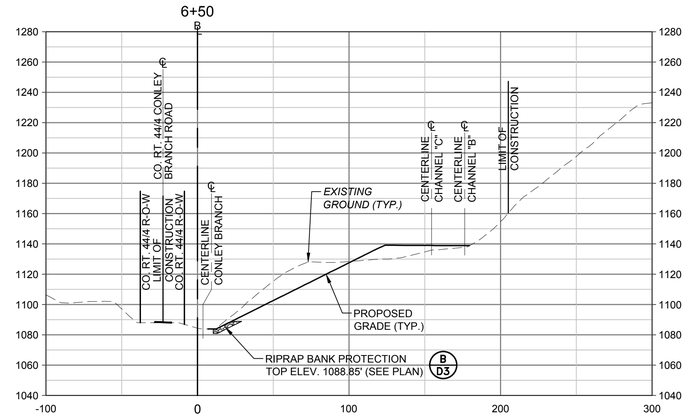
P4

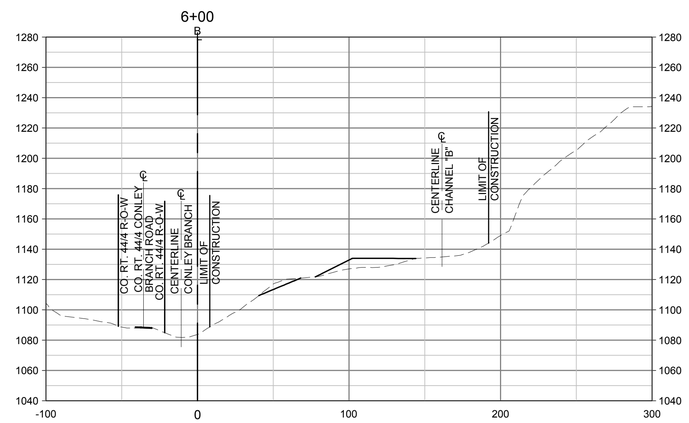
PLOT DATE : 2/7/2014 5:18 PM FILE SAVED BY :BILL.GERENCIR ON 2/7/2014 4:56 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-PROFILES.DWG

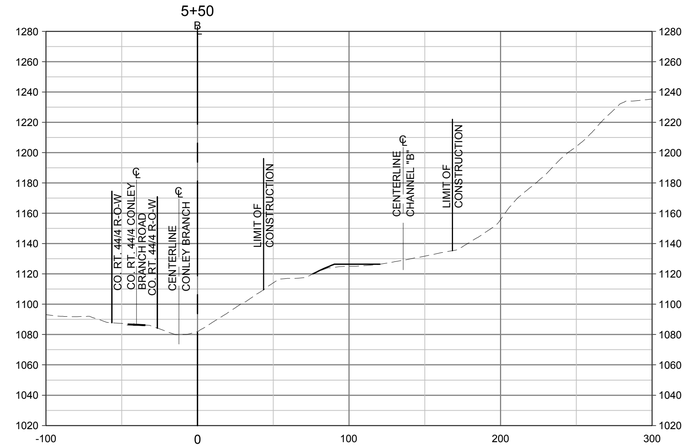


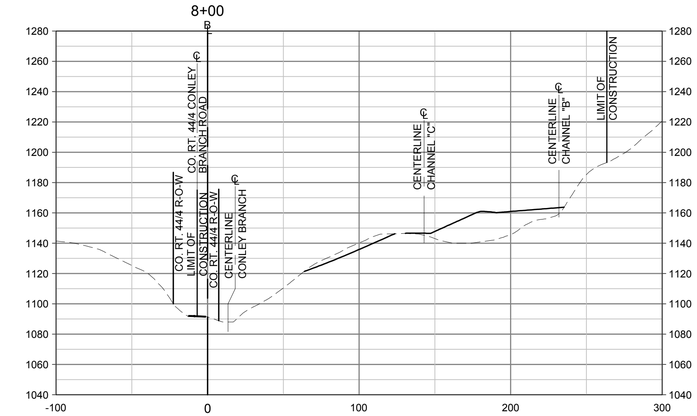


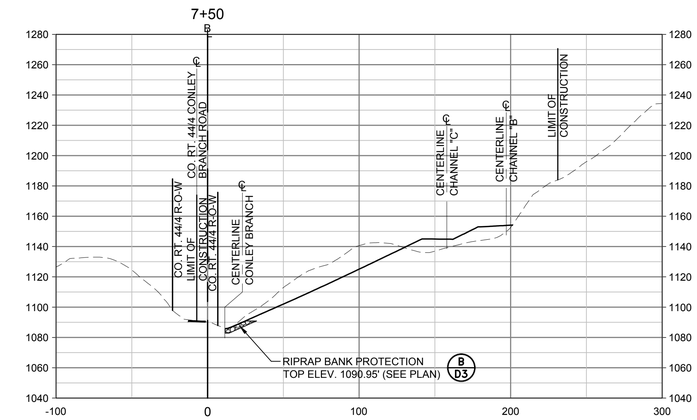


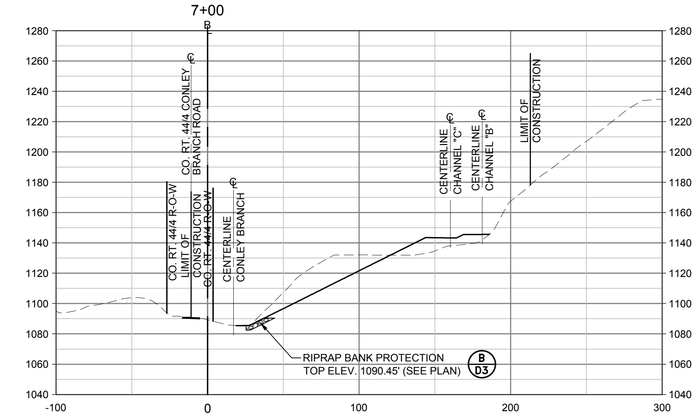












GRAPHIC SCALE

0 25 50 100

1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

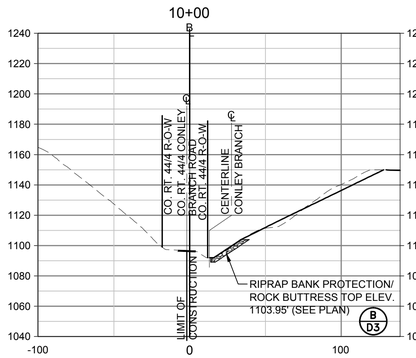
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

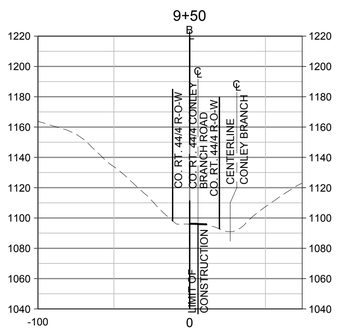
BASELINE "A" CROSS SECTIONS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

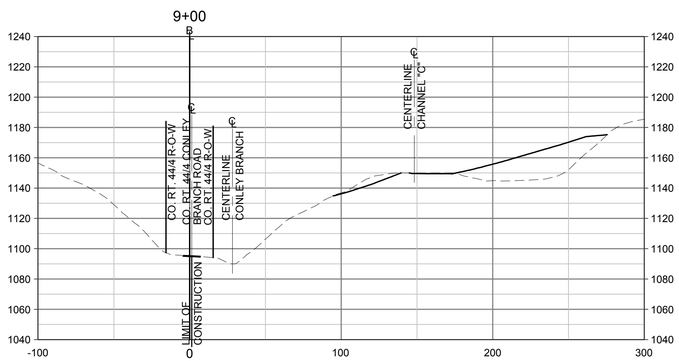
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50' H & V
Date:	4-16-2014
CAD File #	*-SECTIONS

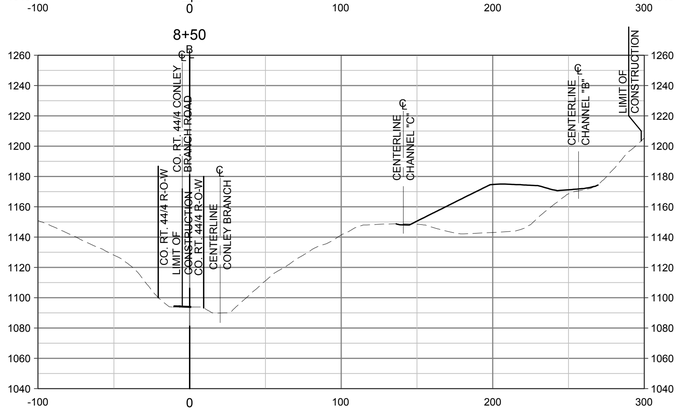
X1

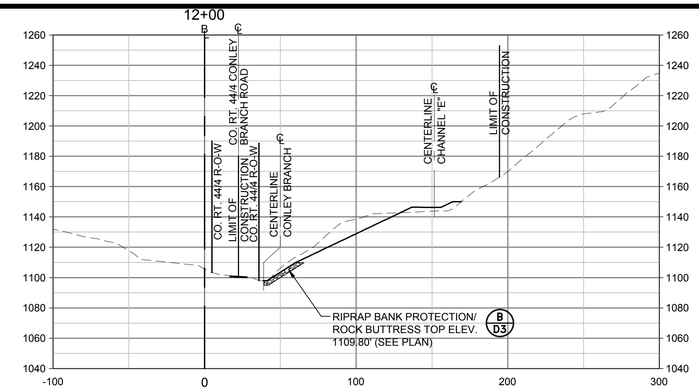
PLOT DATE : 4/16/2014 1:15 PM FILE SAVED BY :BILL.GERENCIR ON 4/16/2014 1:14 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-SECTIONS.DWG

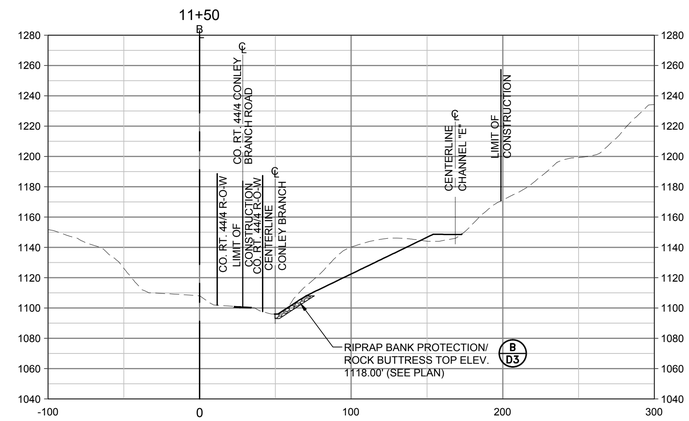


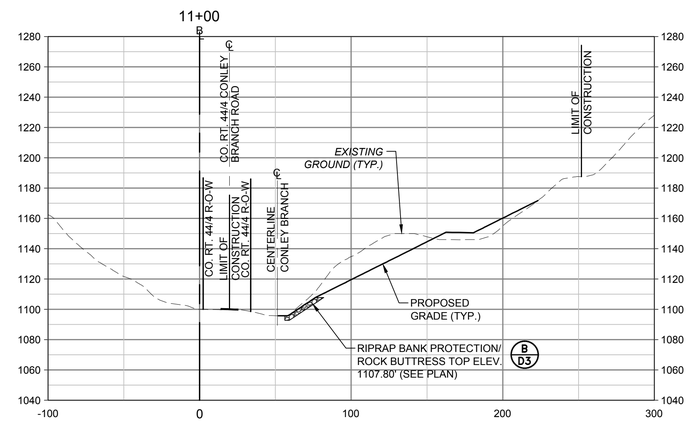


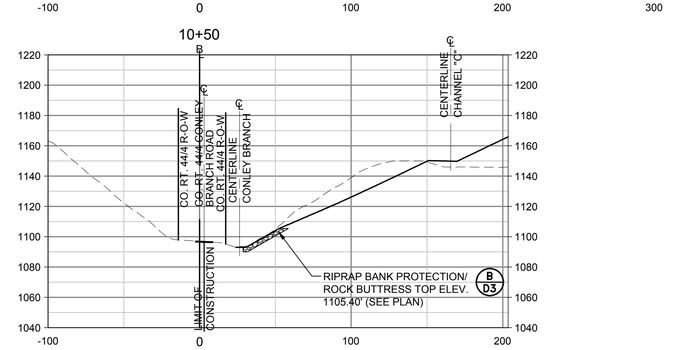


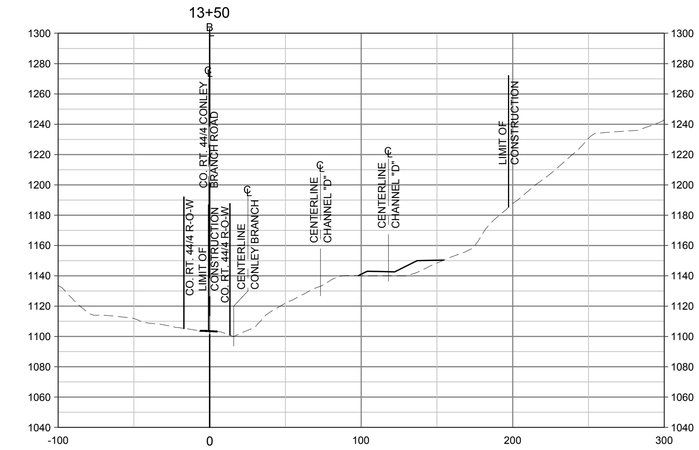


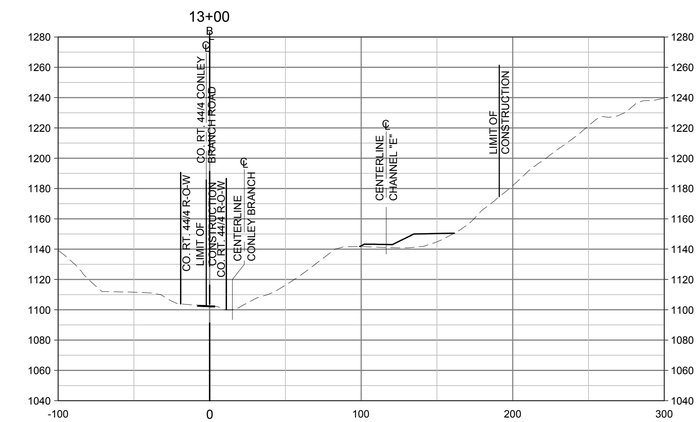


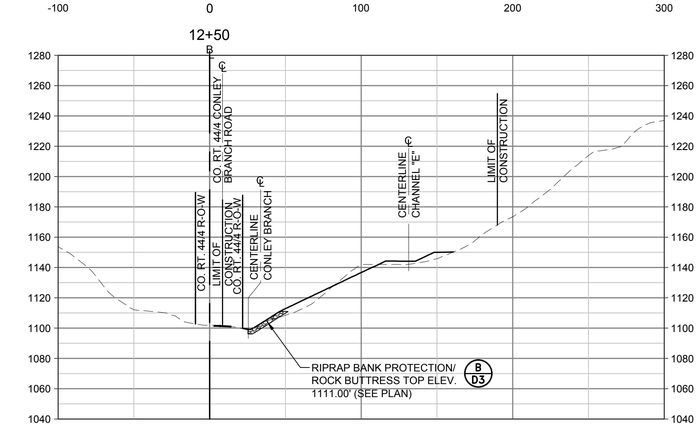












GRAPHIC SCALE
0 25 50 100
1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

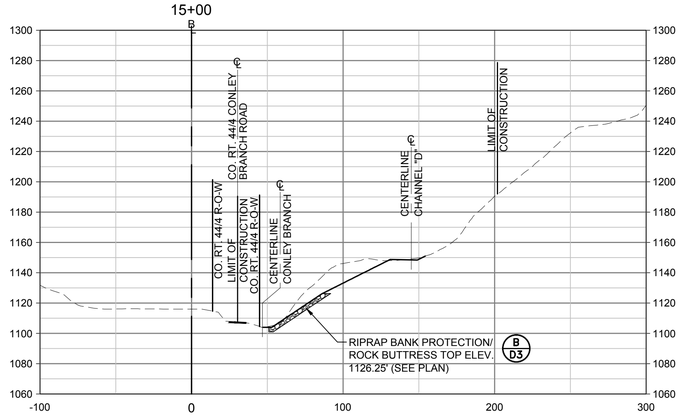
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

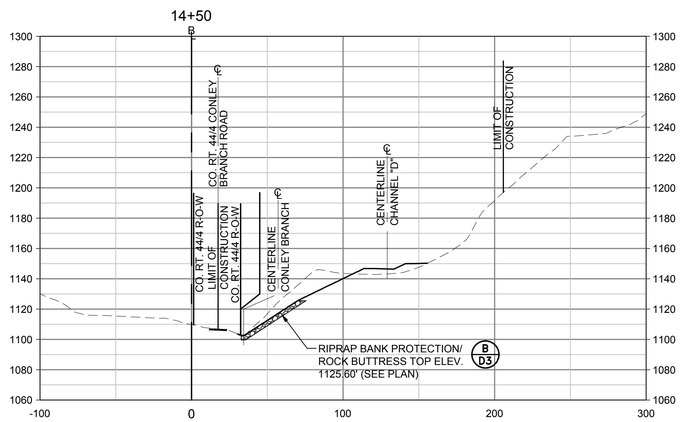
BASELINE "A" CROSS SECTIONS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

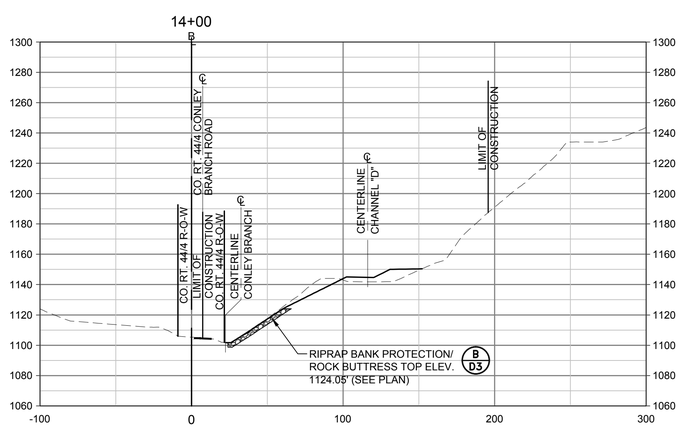
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50' H & V
Date:	4-16-2014
CAD File #	*-SECTIONS

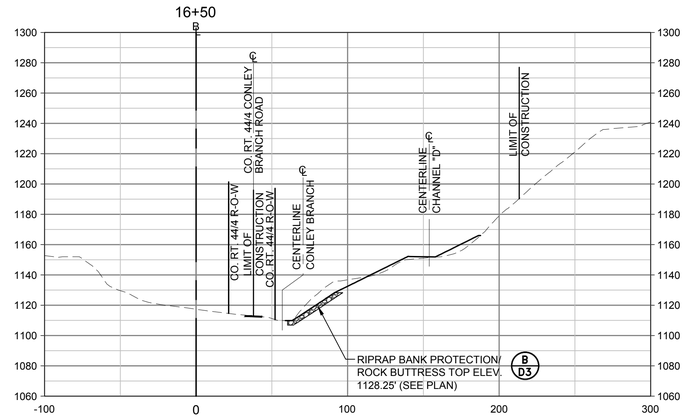
X2

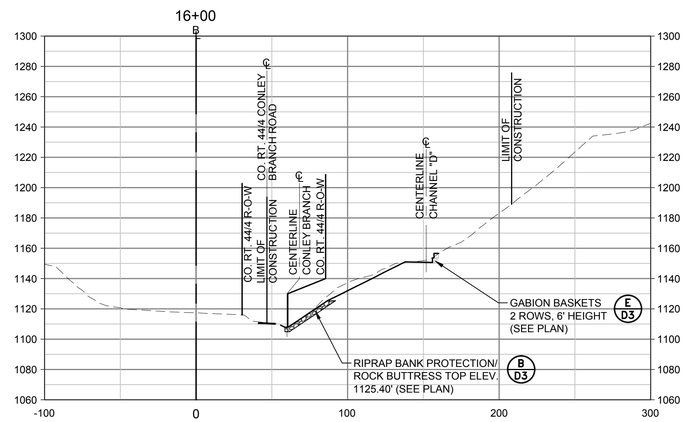
PLOT DATE : 4/16/2014 1:16 PM FILE SAVED BY :BILL.GERENCIR ON 4/16/2014 1:16 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-SECTIONS.DWG

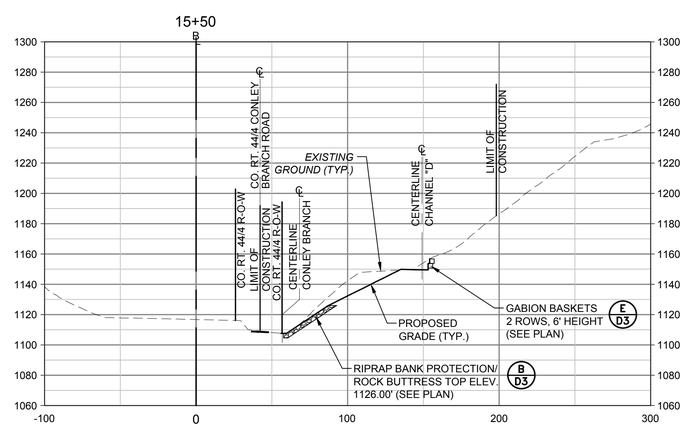


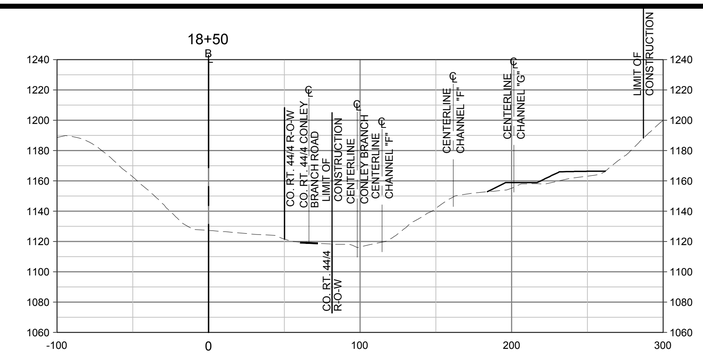


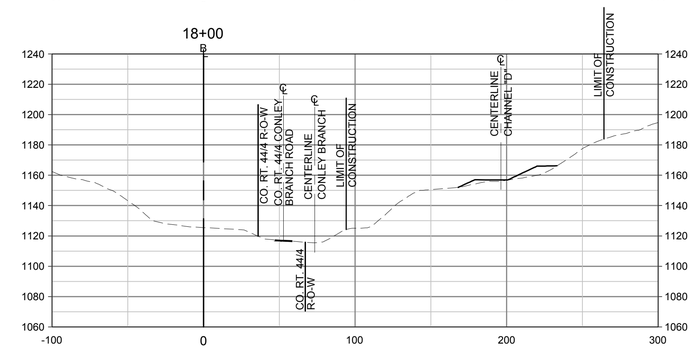


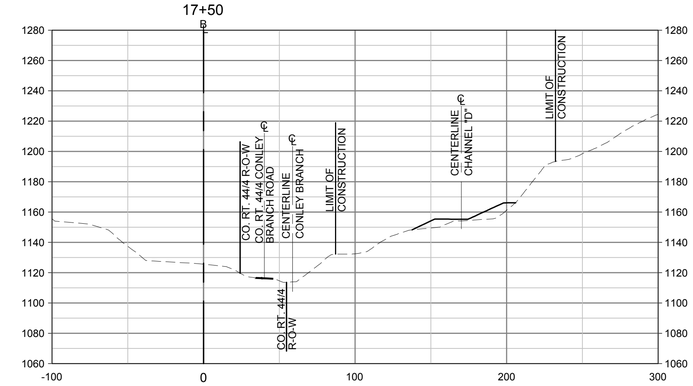


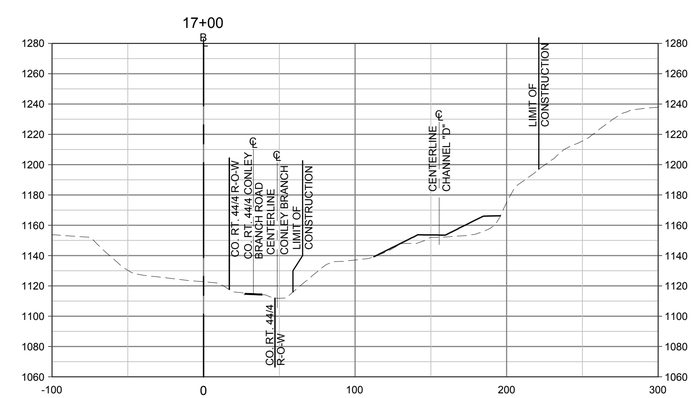












GRAPHIC SCALE
0 25 50 100
1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

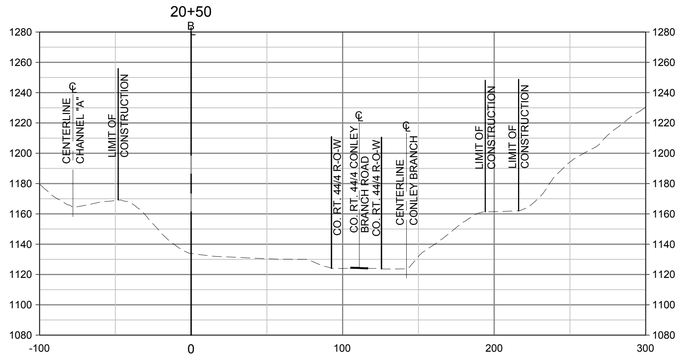
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF ABANDONED MINE LANDS AND RECLAMATION

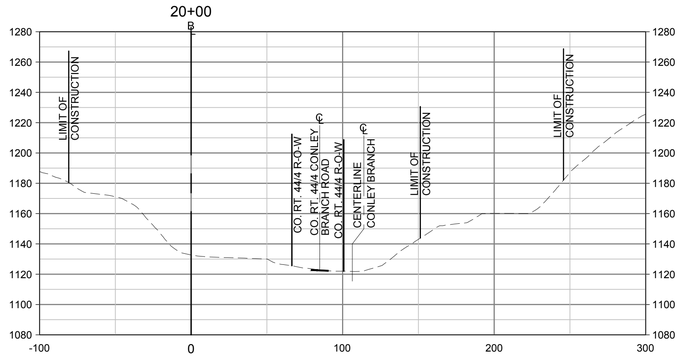
BASELINE "A" CROSS SECTIONS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

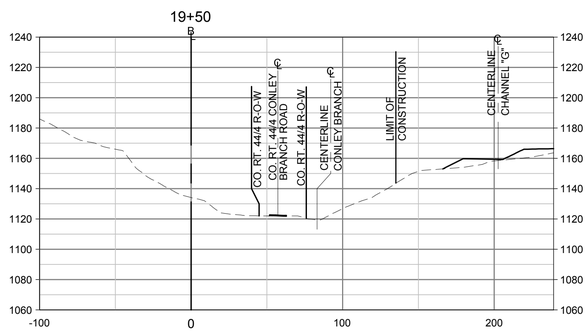
Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50' H & V
Date:	4-16-2014
CAD File #	*-SECTIONS

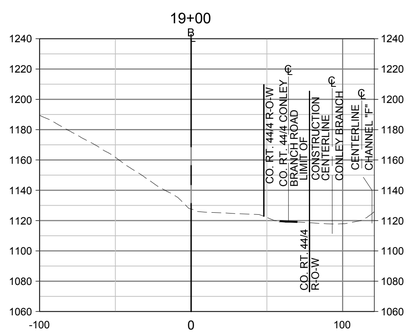
X3

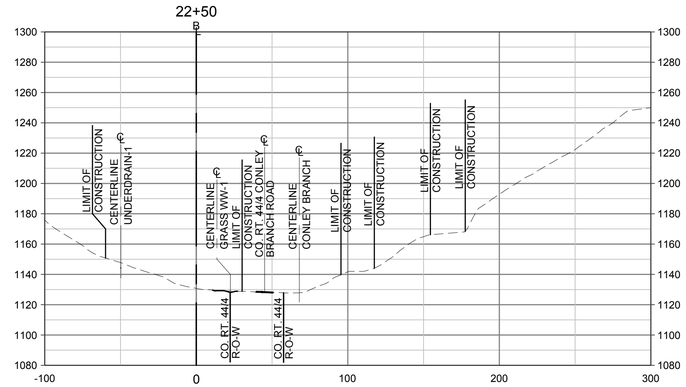
PLOT DATE : 4/16/2014 1:18 PM FILE SAVED BY :BILL.GERENCIR ON 4/16/2014 1:16 PM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-SECTIONS.DWG

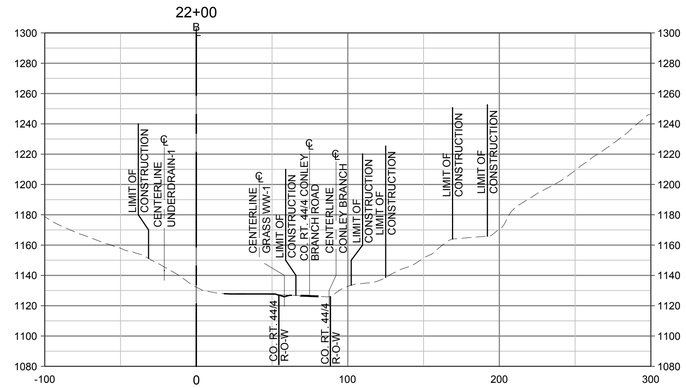


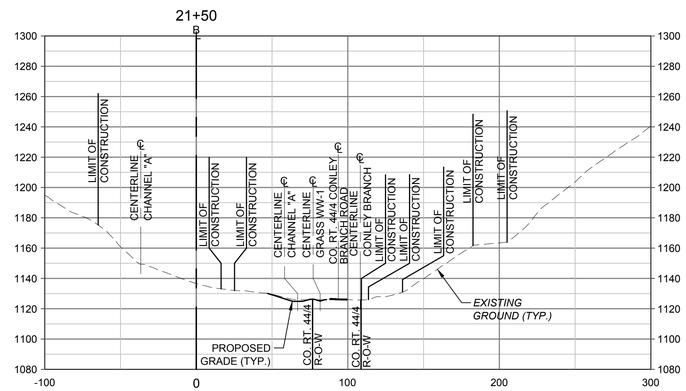


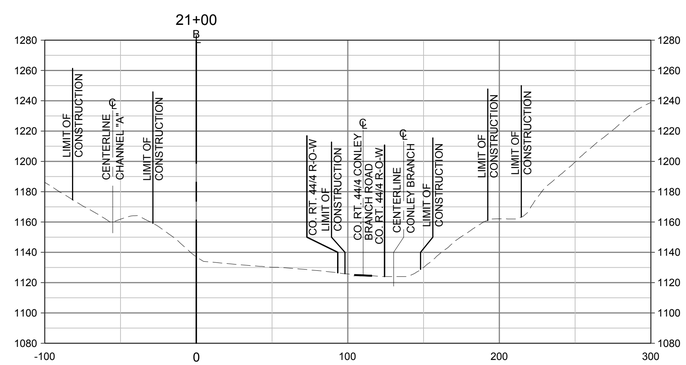


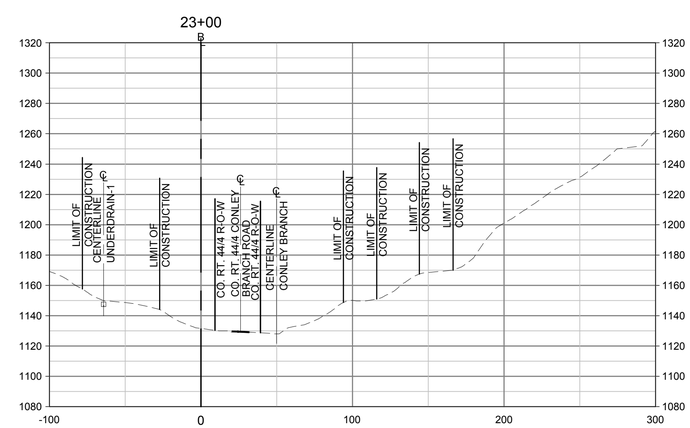












GRAPHIC SCALE
0 25 50 100
1 INCH = 50 FEET

NO.	DATE	REVISION

TERRADON CORPORATION
Engineering • Surveying • Landscape Architecture
P.O. Box 519
Nitro, West Virginia 25143
(304) 755-8291 FAX 755-2636
www.terradon.com

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

BASELINE "A" CROSS SECTIONS
CONLEY BRANCH (WHITT) LANDSLIDE
LOGAN COUNTY, WEST VIRGINIA

Project No.	01-5055-001
Drawn:	WLG
Checked:	EMP
Approved:	WJS
Scale:	1"=50' H & V
Date:	2-10-2014
CAD File #	*-SECTIONS

X4

PLOT DATE : 2/10/2014 8:12 AM FILE SAVED BY :BILL.GERENCIR ON 2/10/2014 8:11 AM P:\2013\01-5055-001 CONLEY BRANCH (WHITT) LANDSLIDE\40-TRANS-AML\AML\DWG\PRODUCTION\SP\01-5055-001-SECTIONS.DWG