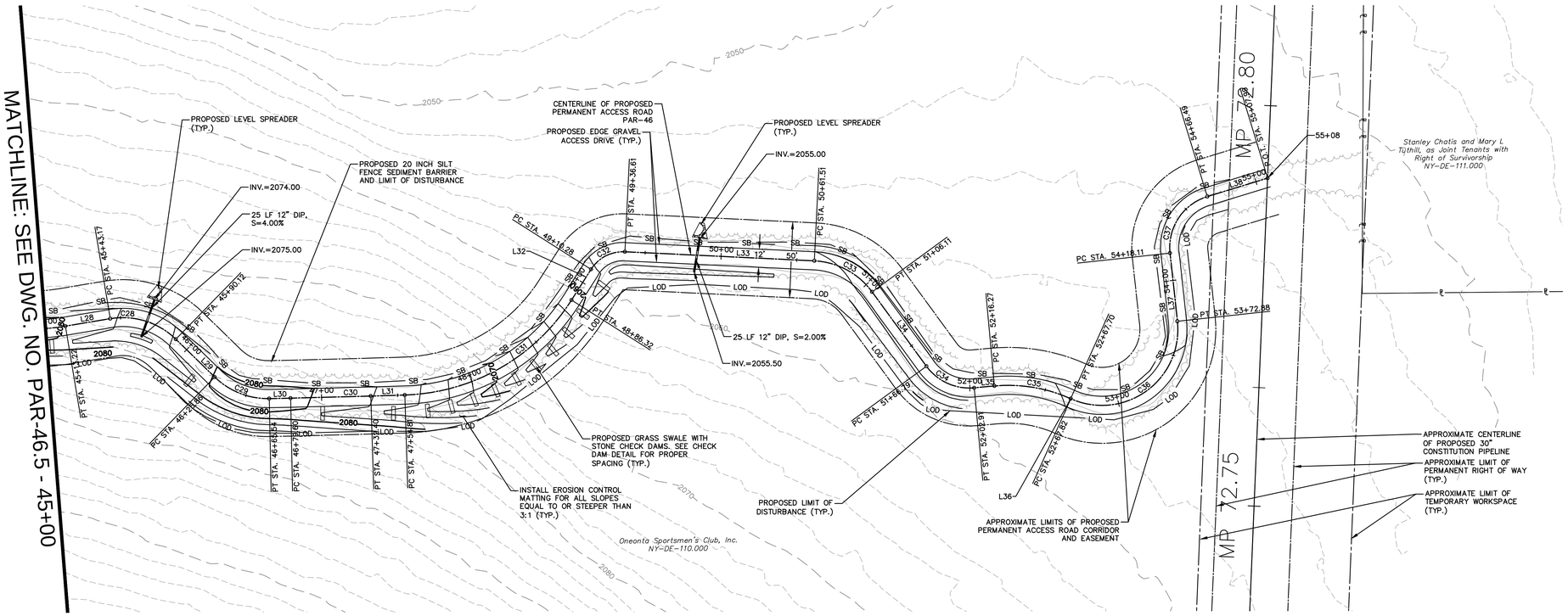
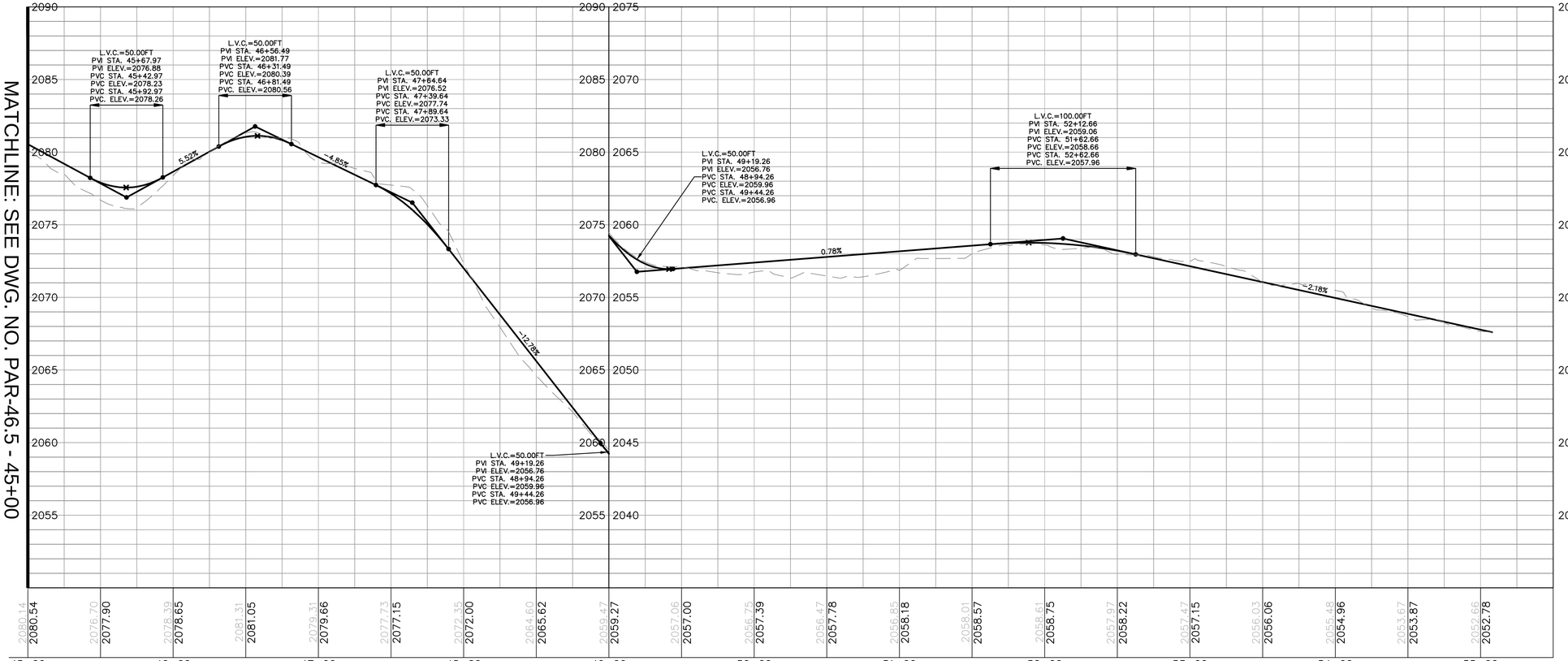
MATCHLINE: SEE DWG. NO. PAR-46.5 - 45+00





MATCHLINE: SEE DWG. NO. PAR-46.5 - 45+00

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

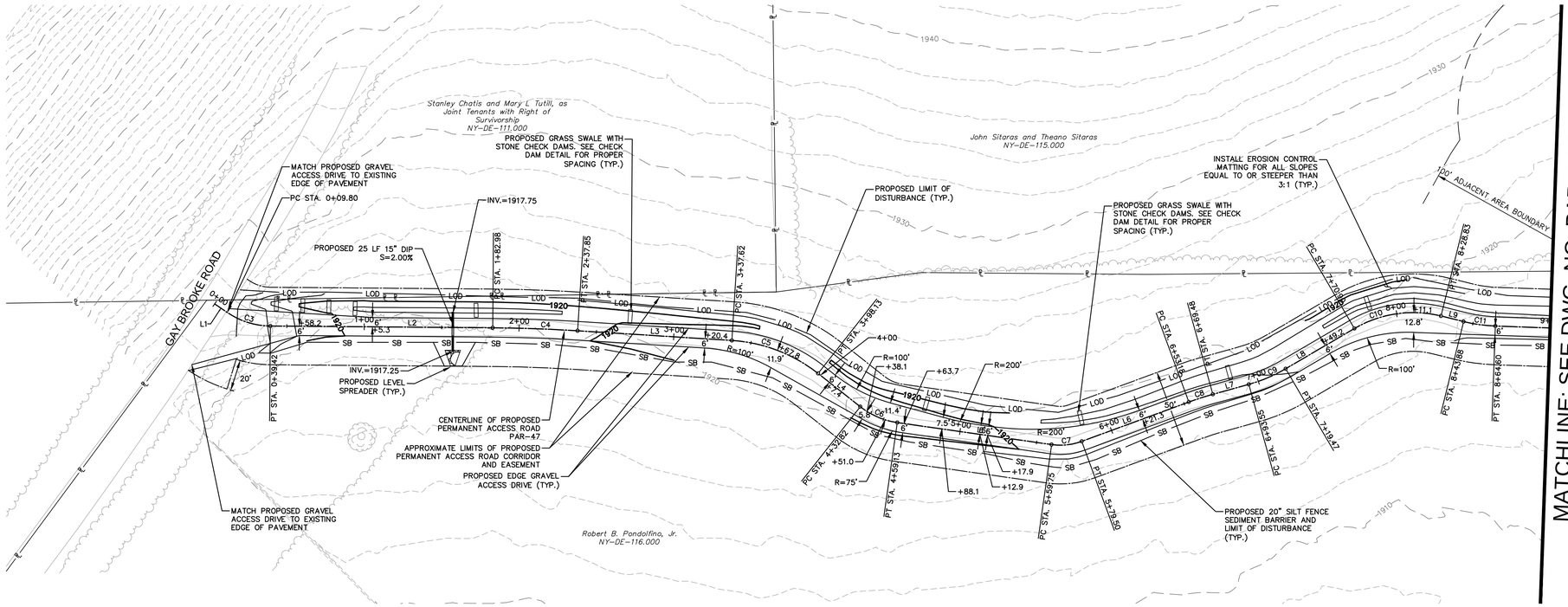
ISSUED FOR BID
NOT FOR CONSTRUCTION

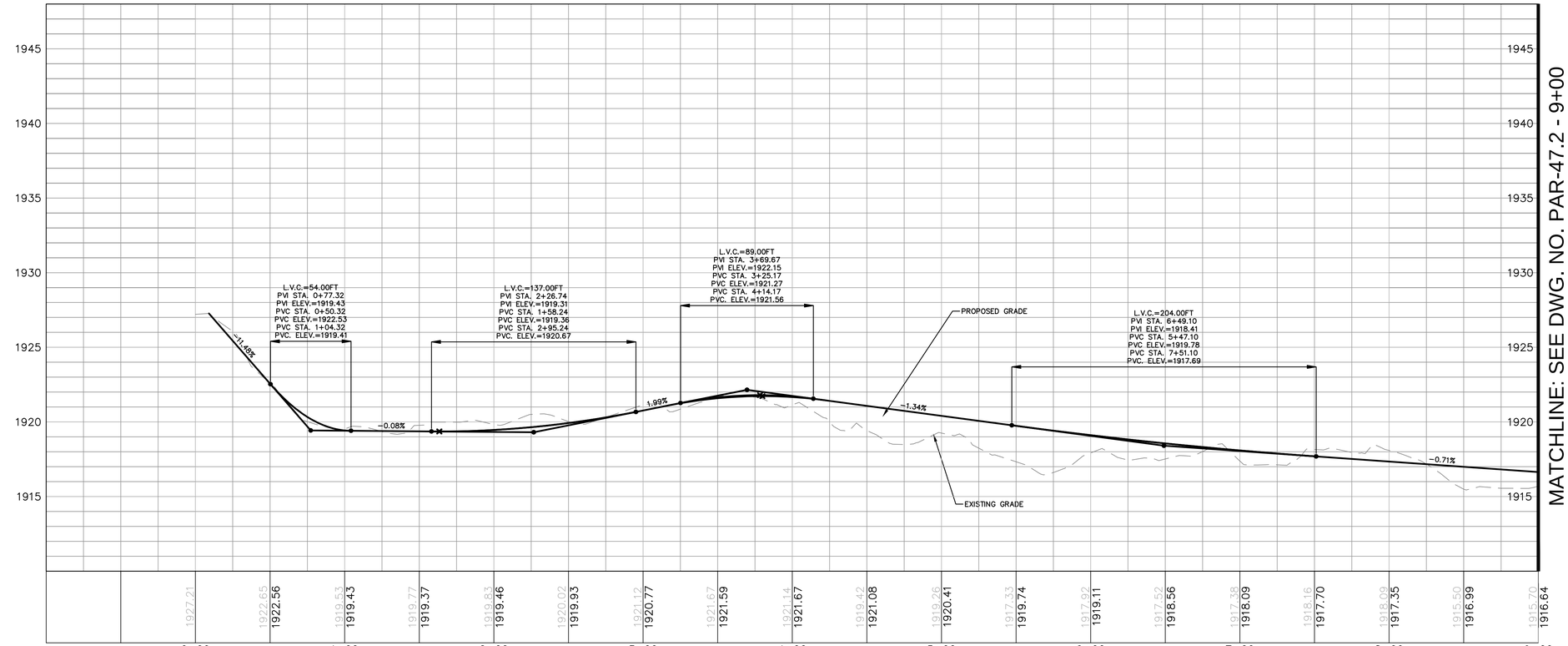
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-46 @ M.P. 72.82
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-46.6	SHEET 71 OF 102
W.O.			





MATCHLINE: SEE DWG. NO. PAR-47.2 - 9+00

GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-47 @ M.P. 73.67
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-47.1	SHEET 72 OF 102
W.O.:			

LAST PLOTTED: 8/1/2014 11:42:00 AM BY: JOSEPH
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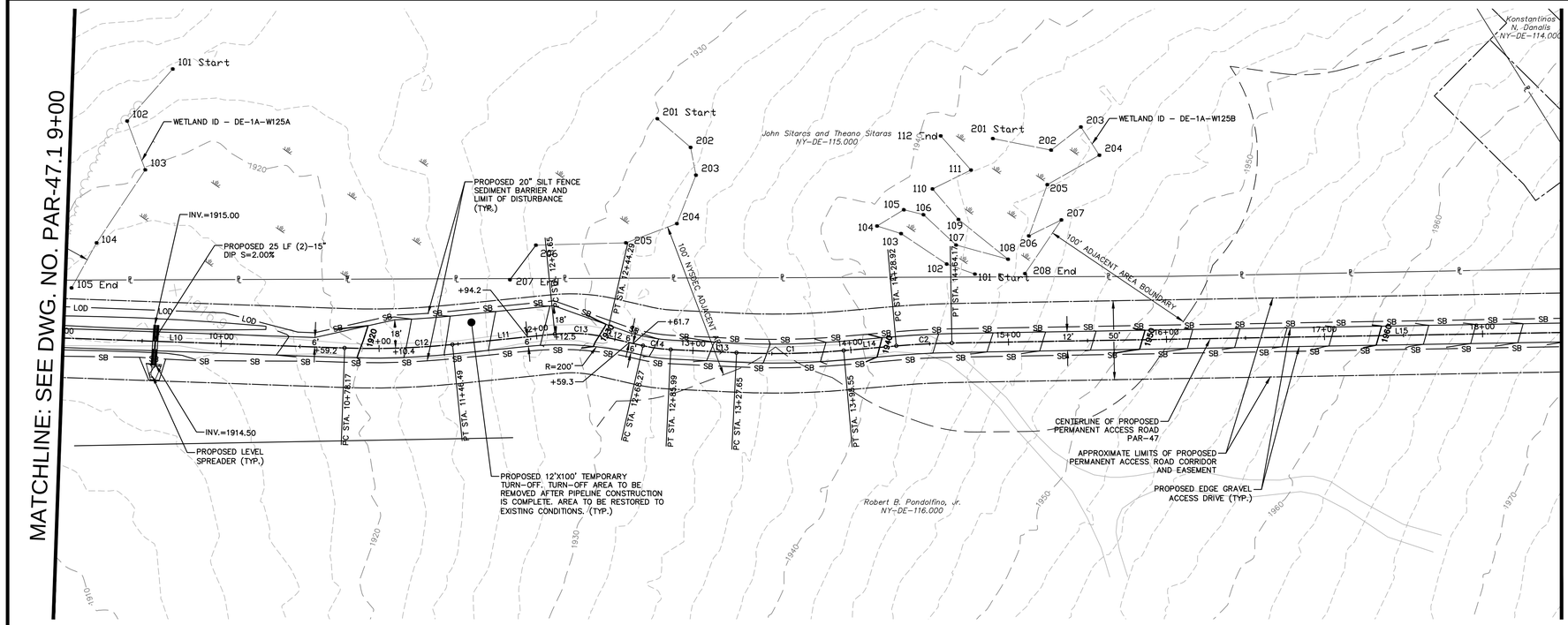
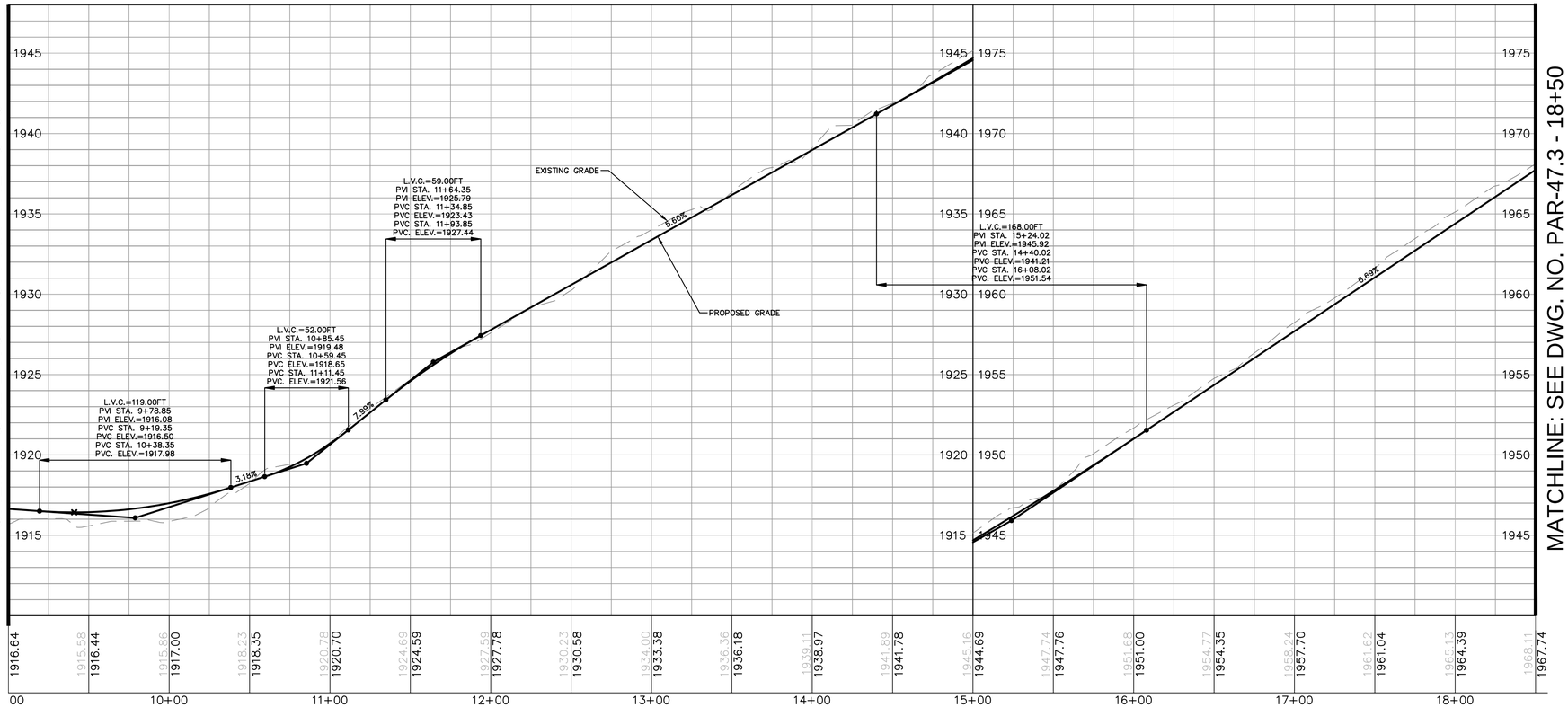
MATCHLINE: SEE DWG. NO. PAR-47.1 9+00



MATCHLINE: SEE DWG. NO. PAR-47.2 - 9+00

MATCHLINE: SEE DWG. NO. PAR-47.3 - 18+50



PAR-47							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15406191.60 E 15406191.71	B 1626090.11 E 1626099.91	N89°21'49.77"E		9.80'		
C3	PC 15406191.71 PI 15406191.88 PT 15406200.54	PC 1626099.91 PI 1626115.17 PT 1626127.73		33°56'31"	29.62'	15.26'	50.0'
L2	B 15406200.54 E 15406282.01	B 1626127.73 E 1626245.93	N55°25'19.26"E		143.56'		
C4	PC 15406282.01 PI 15406297.58 PT 15406311.90	PC 1626245.93 PI 1626268.52 PT 1626291.94		3°08'38"	54.87'	27.44'	1000.0'
L3	B 15406311.90 E 15406363.93	B 1626291.94 E 1626377.06	N58°33'57.21"E		99.77'		
C5	PC 15406363.93 PI 15406380.21 PT 15406378.44	PC 1626377.06 PI 1626403.70 PT 1626434.86		34°40'17"	60.51'	31.21'	100.0'
L4	B 15406378.44 E 15406376.48	B 1626434.86 E 1626469.50	S86°45'46.14"E		34.69'		
C6	PC 15406376.48 PI 15406375.72 PT 15406381.82	PC 1626469.50 PI 1626482.95 PT 1626494.96		30°09'16"	26.31'	13.47'	50.0'
L5	B 15406381.82 E 15406427.37	B 1626494.96 E 1626584.67	N63°04'57.59"E		100.62'		
C7	PC 15406427.37 PI 15406431.93 PT 15406440.21	PC 1626584.67 PI 1626593.66 PT 1626599.41		28°17'03"	19.75'	10.08'	40.0'
L6	B 15406440.21 E 15406500.72	B 1626599.41 E 1626641.46	N34°47'55.06"E		73.68'		
C8	PC 15406500.72 PI 15406507.41 PT 15406513.71	PC 1626641.46 PI 1626646.12 PT 1626651.30		4°40'15"	16.30'	8.16'	200.0'
L7	B 15406513.71 E 15406532.29	B 1626651.30 E 1626666.60	N39°28'10.22"E		24.07'		
C9	PC 15406532.29 PI 15406542.35 PT 15406554.19	PC 1626666.60 PI 1626674.88 PT 1626680.31		14°50'47"	25.91'	13.03'	100.0'
L8	B 15406554.19 E 15406600.95	B 1626680.31 E 1626701.74	N24°37'23.20"E		51.44'		
C10	PC 15406600.95 PI 15406628.67 PT 15406639.66	PC 1626701.74 PI 1626714.45 PT 1626742.89		44°15'08"	57.93'	30.49'	75.0'
L9	B 15406639.66 E 15406645.09	B 1626742.89 E 1626756.93	N68°52'30.91"E		15.05'		
C11	PC 15406645.09 PI 15406648.84 PT 15406654.50	PC 1626756.93 PI 1626766.63 PT 1626775.35		11°52'22"	20.72'	10.40'	100.0'
L10	B 15406654.50 E 15406770.81	B 1626775.35 E 1626954.48	N57°00'09.26"E		213.57'		
C12	PC 15406770.81 PI 15406789.44 PT 15406811.81	PC 1626954.48 PI 1626983.17 PT 1627009.06		7°49'44"	68.32'	34.21'	500.0'
L11	B 15406811.81 E 15406854.41	B 1627009.06 E 1627058.36	N49°10'25.70"E		65.15'		
C13	PC 15406854.41 PI 15406865.17 PT 15406871.37	PC 1627058.36 PI 1627070.82 PT 1627086.07		18°42'03"	32.64'	16.47'	100.0'
L12	B 15406871.37 E 15406880.41	B 1627086.07 E 1627108.29	N67°52'28.32"E		23.98'		
C14	PC 15406880.41 PI 15406883.75 PT 15406888.50	PC 1627108.29 PI 1627116.52 PT 1627124.03		10°09'13"	17.72'	8.88'	100.0'
L13	B 15406888.50 E 15406910.74	B 1627124.03 E 1627159.25	N57°43'15.48"E		41.66'		
C1	PC 15406910.74 PI 15406928.90 PT 15406950.78	PC 1627159.25 PI 1627188.00 PT 1627214.02		7°46'50"	67.90'	34.00'	500.0'
L14	B 15406950.78 E 15406972.26	B 1627214.02 E 1627239.56	N49°56'25.73"E		33.37'		
C2	PC 15406972.26 PI 15406983.61 PT 15406993.98	PC 1627239.56 PI 1627253.06 PT 1627267.32		4°02'22"	35.25'	17.63'	500.0'
L15	B 15406993.98 E 15407328.88	B 1627267.32 E 1627727.93	N53°58'48.17"E		569.49'		

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

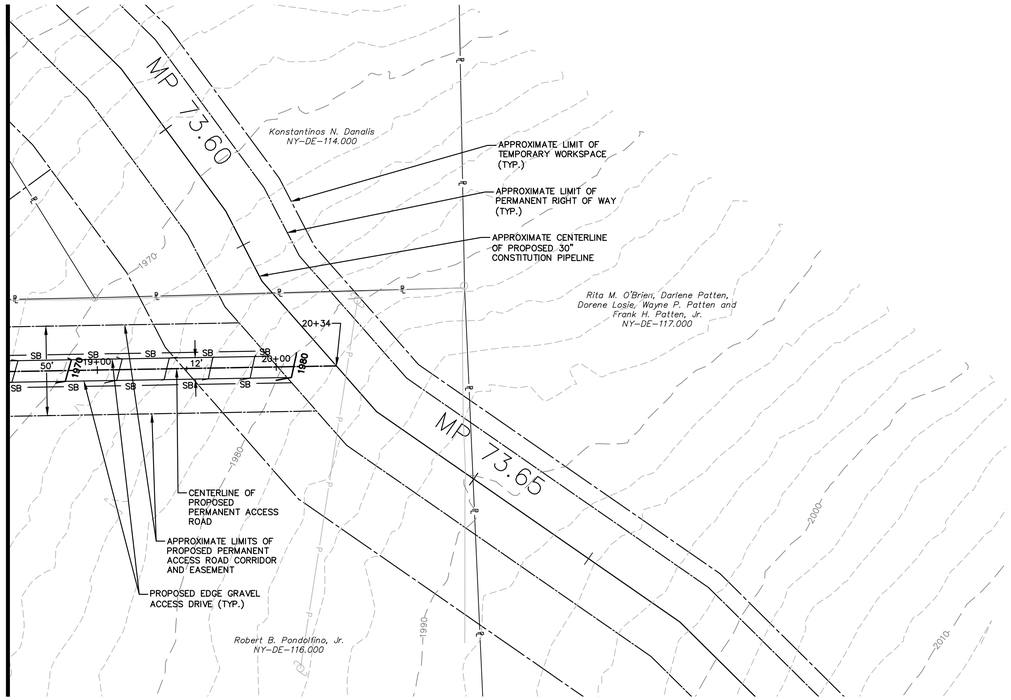
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-47 @ M.P. 73.67
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

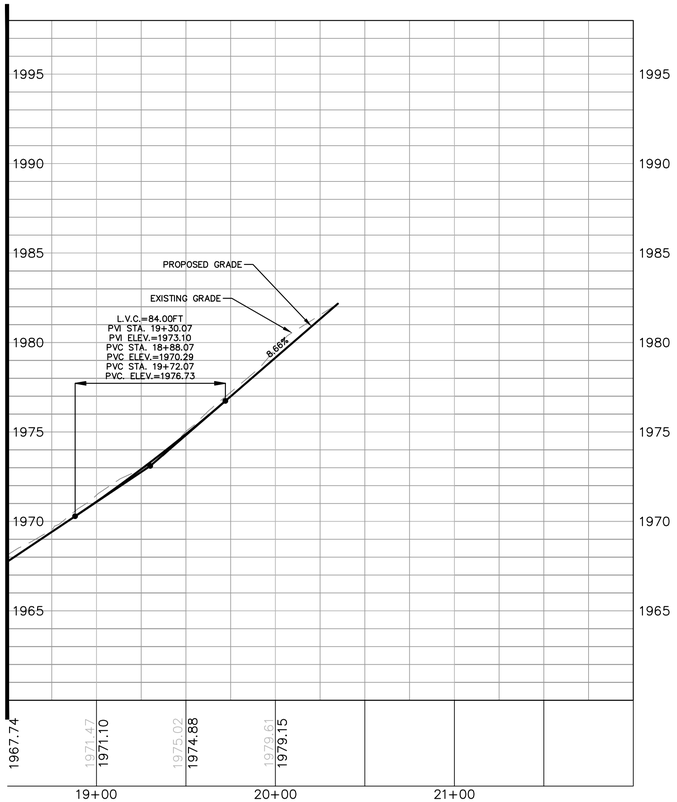
DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-47.2	SHEET 73 OF 102
W.O.:			

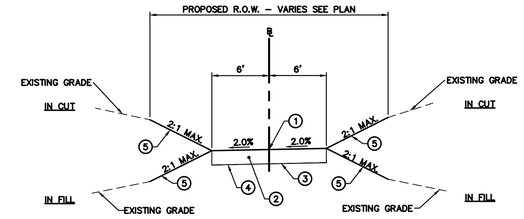
XAXIS PA 7/21/2014

MATCHLINE: SEE DWG. NO. PAR-47.2 - 18+50

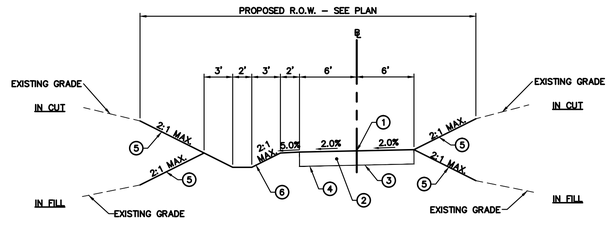


MATCHLINE: SEE DWG. NO. PAR-47.2 - 18+50





TYPICAL SECTION STA. 10+50 TO 20+34.88



TYPICAL SECTION STA. 0+00 TO 10+50

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

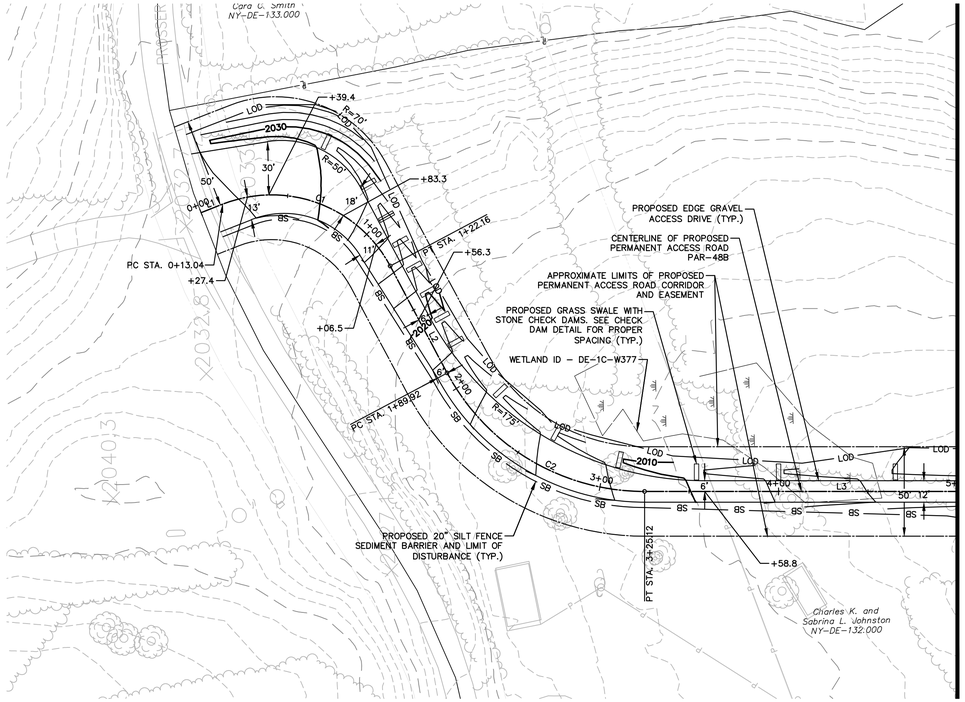
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-47 @ M.P. 73.67
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

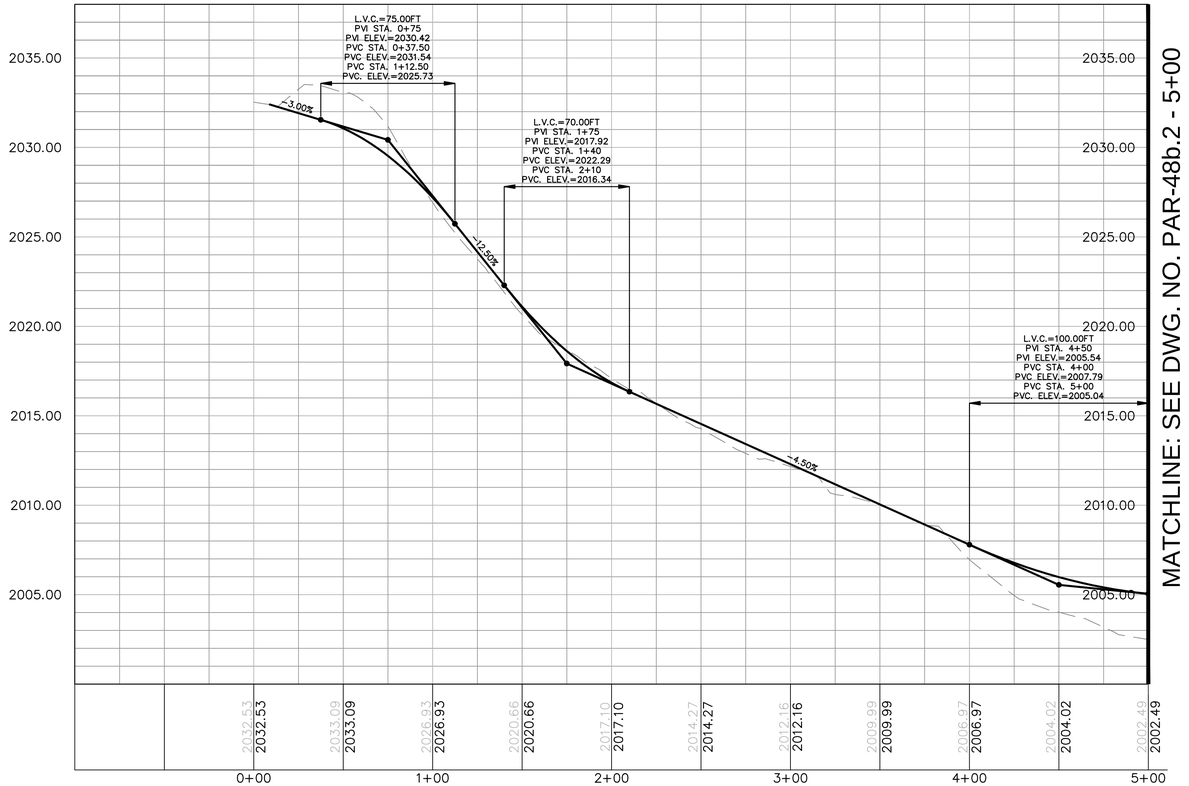
DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-47.3	SHEET 74 OF 102
W.O.:			

LAND IN TOWN OF FRANKLIN, DELAWARE COUNTY, NEW YORK



MATCHLINE: SEE DWG. NO. PAR-48b.2 - 5+00

PAR-48b							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15410060.00 E 15410047.76	B 1643647.81 E 1643652.29	S20°06'38.39"E		13.04'		
C1	PC 15410047.76 PI 15409985.05 PT 15409954.99	PC 1643652.29 PI 1643675.25 PT 1643615.62		83°21'36"	109.12'	66.78'	75.0'
L2	B 15409954.99 E 15409924.49	B 1643615.62 E 1643555.11	S63°14'57.66"W		67.76'		
C2	PC 15409924.49 PI 15409890.71 PT 15409815.66	PC 1643555.11 PI 1643488.08 PT 1643486.41		61°58'13"	135.20'	75.06'	125.0'
L3	B 15409815.66 E 15409595.38	B 1643486.41 E 1643481.49	S1°16'44.87"W		220.34'		
C3	PC 15409595.38 PI 15409563.84 PT 15409537.60	PC 1643481.49 PI 1643480.78 PT 1643498.31		35°01'22"	61.13'	31.55'	100.0'
L4	B 15409537.60 E 15409425.41	B 1643498.31 E 1643573.26	S33°44'37.02"E		134.92'		
C4	PC 15409425.41 PI 15409406.09 PT 15409388.98	PC 1643573.26 PI 1643586.16 PT 1643601.89		8°51'31"	46.38'	23.24'	300.0'
L5	B 15409388.98 E 15409292.45	B 1643601.89 E 1643690.66	S42°36'07.58"E		131.14'		
C5	PC 15409292.45 PI 15409263.92 PT 15409227.65	PC 1643690.66 PI 1643716.90 PT 1643730.58		21°56'23"	76.58'	38.77'	200.0'
L108	B 15409227.65 E 15409223.86	B 1643730.58 E 1643732.01	S20°39'44.36"E		4.04'		



MATCHLINE: SEE DWG. NO. PAR-48b.2 - 5+00

GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-48b @ M.P. 76.93
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-48b.1	SHEET 75 OF 102
W.O.:			

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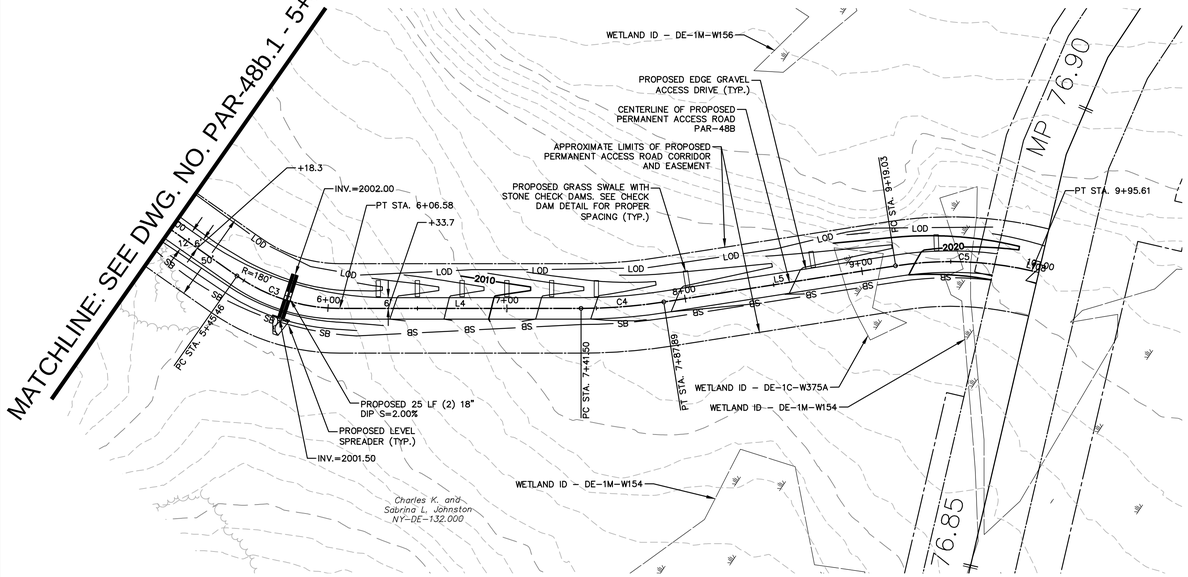
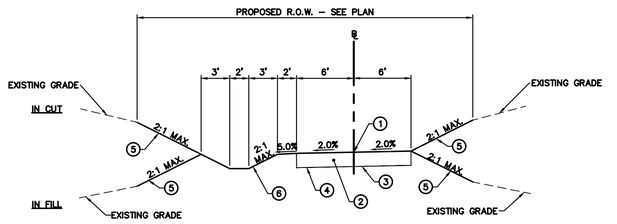
MATCHLINE: SEE DWG. NO. PAR-48b.1 - 5+00



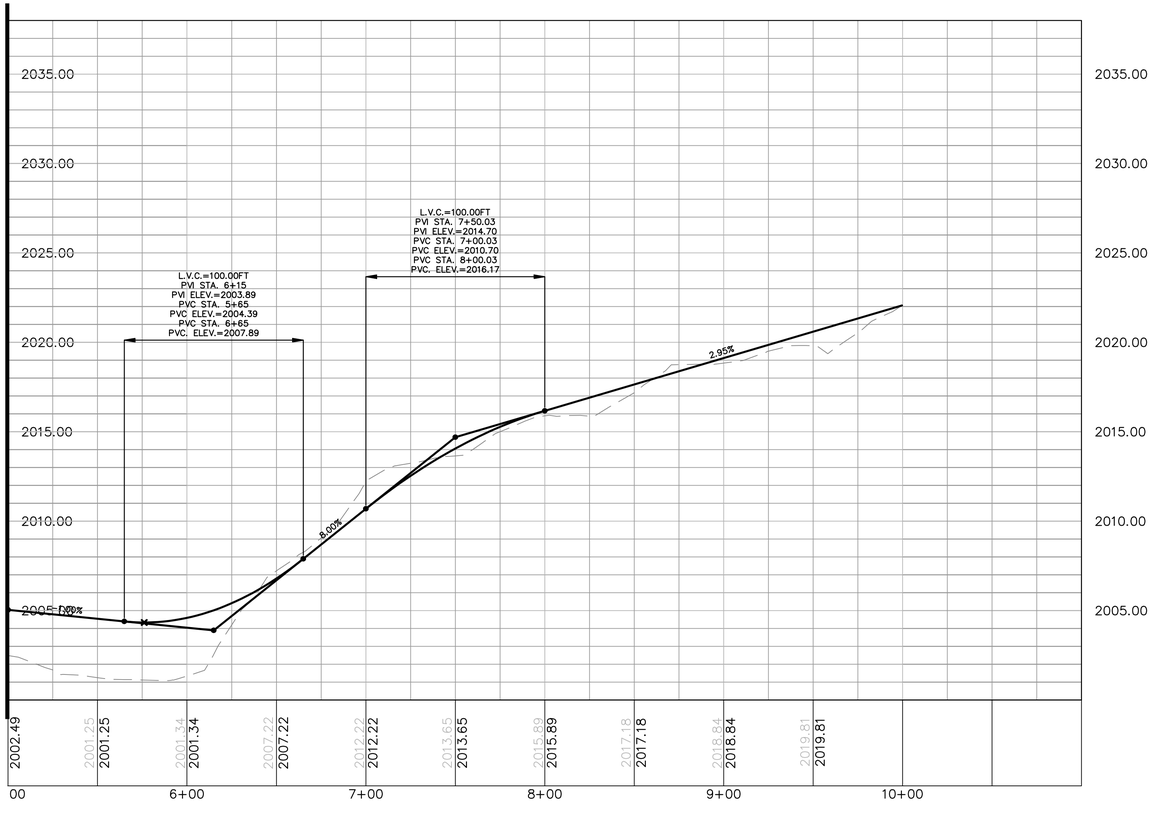


TYPICAL SECTION STA. 0+00 TO 10+00

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)

MATCHLINE: SEE DWG. NO. PAR-48b.1 - 5+00



HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-48b @ M.P. 76.93
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

ISSUED FOR BID
NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-48b.2	SHEET 76 OF 102
W.O:			

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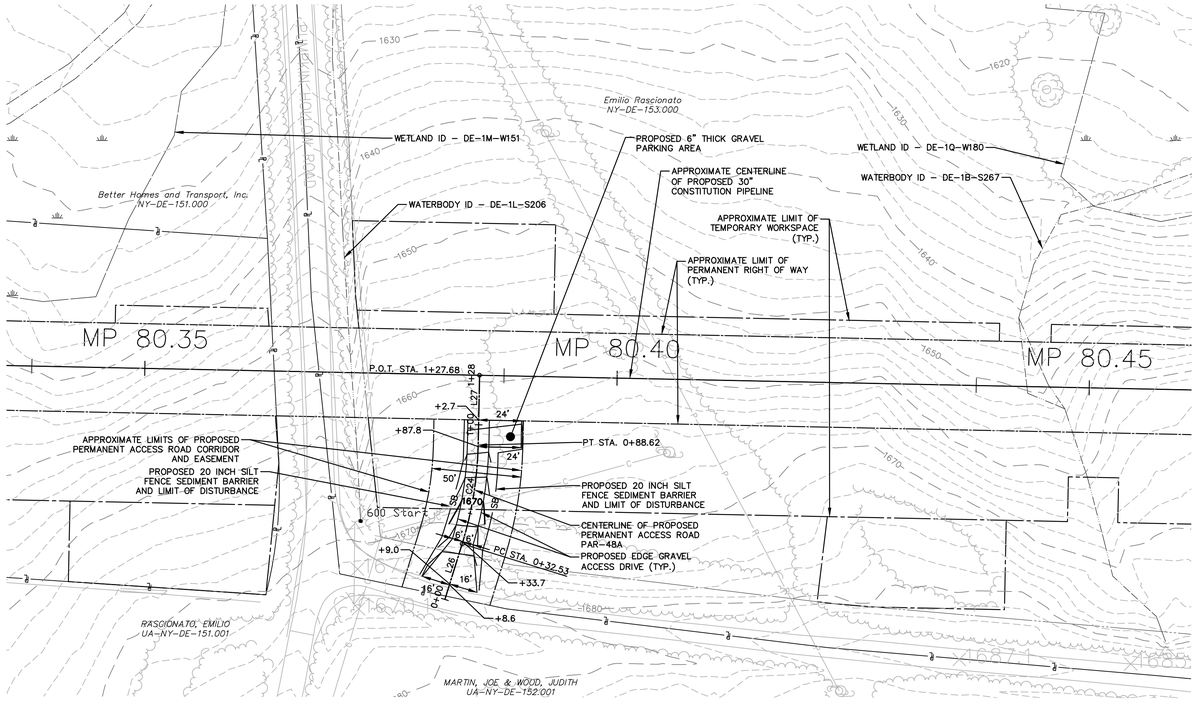

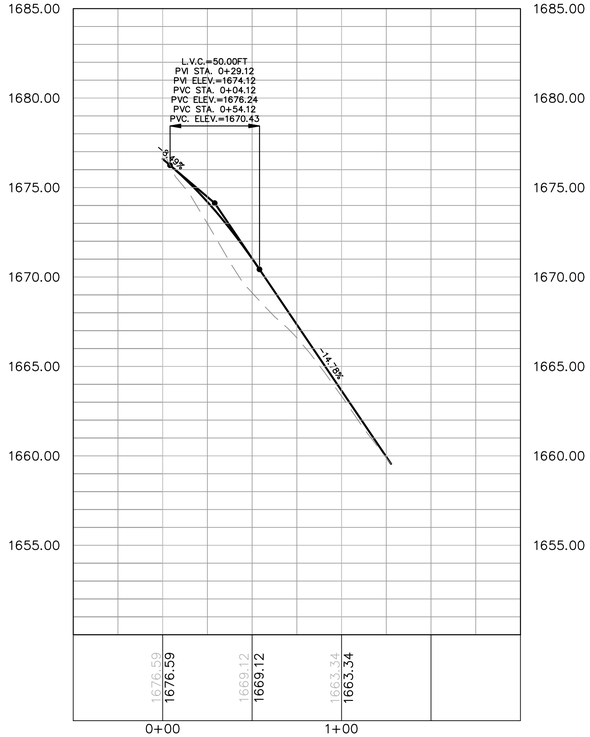

PAR-48a							
No.	Northing	Easting	Bearing	Delta(△)	Length	Tangent	Radius
L26	B 15409712.90 E 15409743.97	B 1661594.78 E 1661604.43	N17°14'51.21"E		32.53'		
C24	PC 15409743.97 PI 15409770.93 PT 15409799.15	PC 1661604.43 PI 1661612.80 PT 1661613.38		16°04'08"	56.09'	28.23'	200.0'
L27	B 15409799.15 E 15409838.20	B 1661613.38 E 1661614.18	N1°10'43.11"E		39.05'		

GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
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5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
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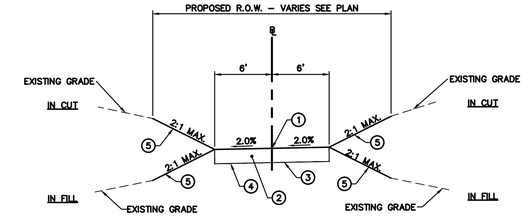

TYPICAL SECTION STA. 0+00 TO 1+27.68

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-48a @ M.P. 80.45
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-48a	SHEET 77 OF 102
W.O.			

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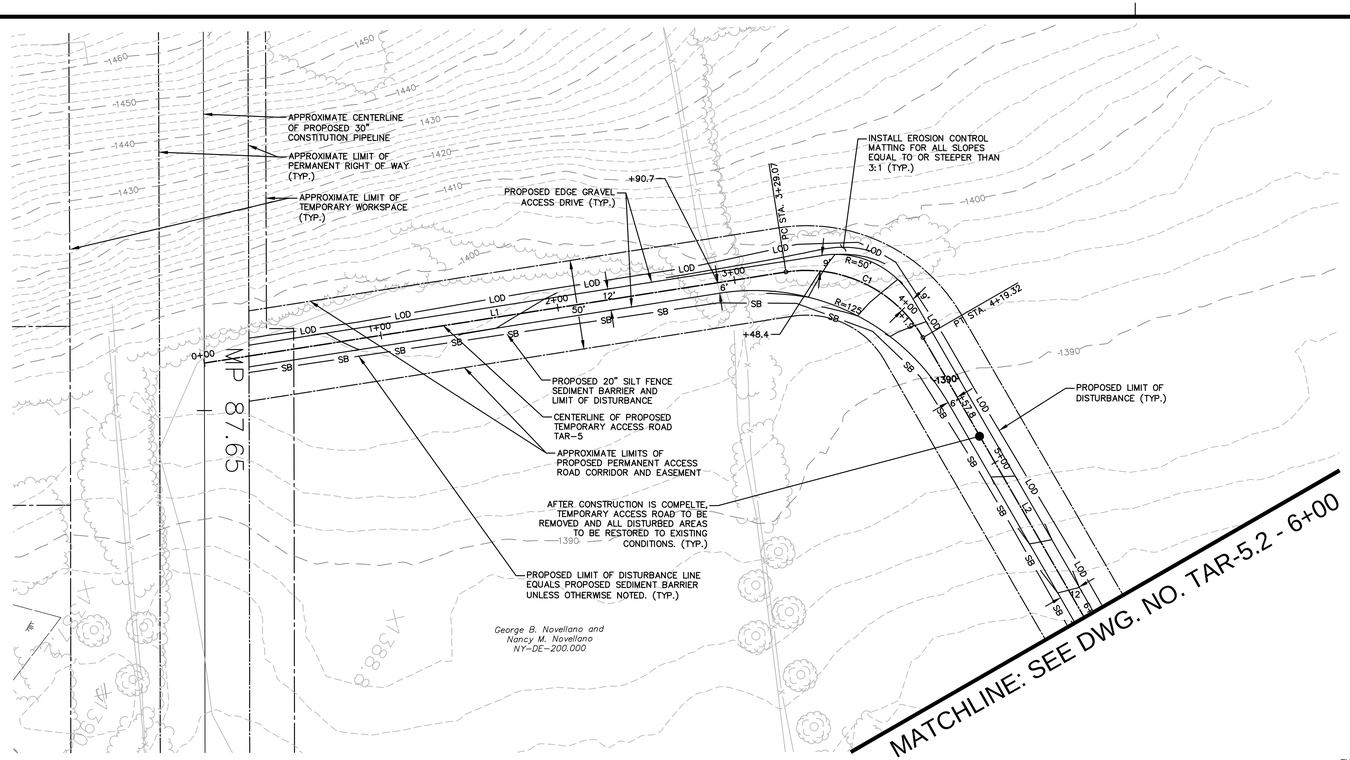

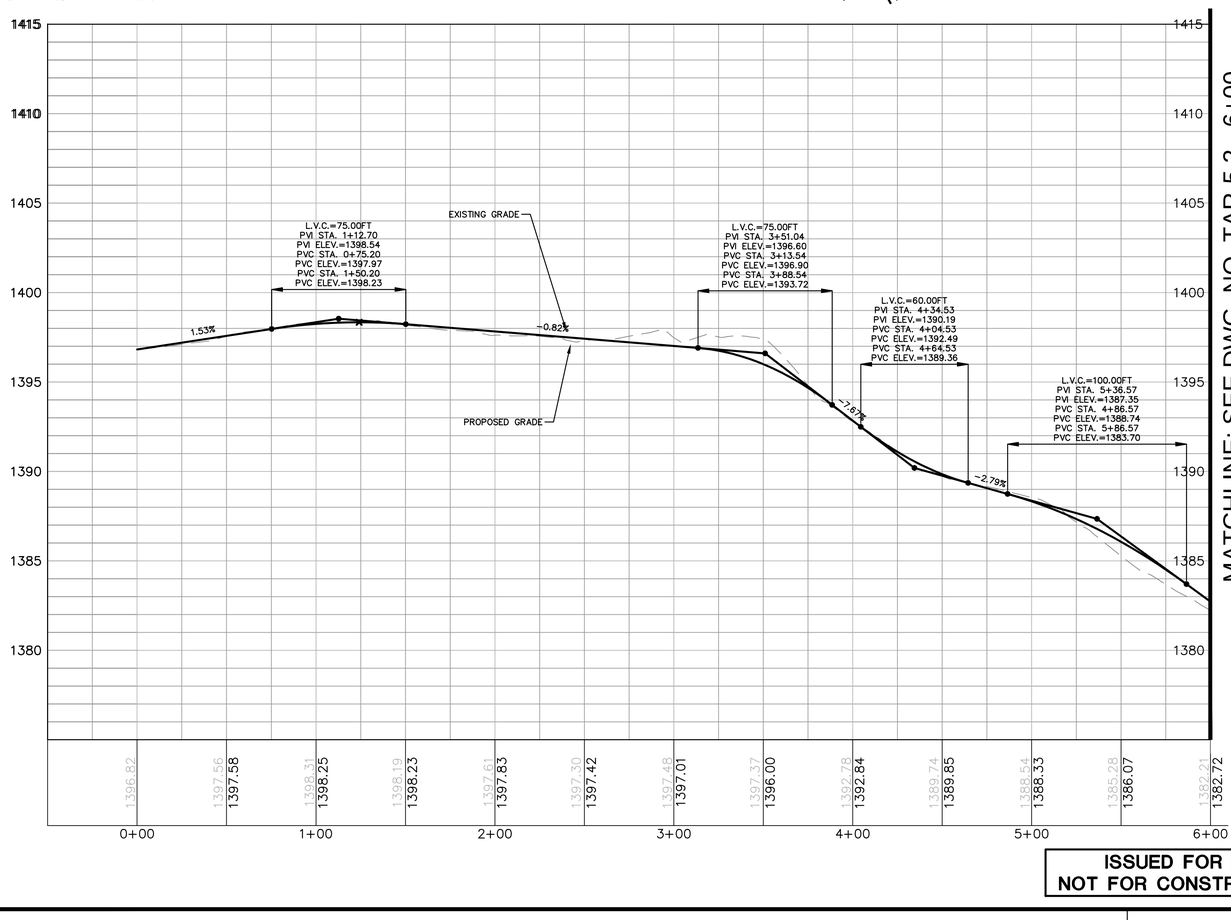

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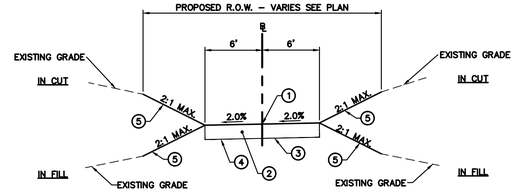
NOT FOR CONSTRUCTION



TYPICAL SECTION STA. 0+00 TO 11+00

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED

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TAR-5

No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15425099.19 E 15425350.95	B 1695160.21 E 1694948.29	N40°05'22.34"W		329.07'		
C1	PC 15425350.95 PI 15425390.14 PT 15425435.44	PC 1694948.29 PI 1694915.13 PT 1694939.98		68°56'40"	90.25'	51.49'	75.0'
L2	B 15425435.44 E 15425630.89	B 1694939.98 E 1695047.67	N28°51'17.82"E		223.16'		
C2	PC 15425630.89 PI 15425671.81 PT 15425703.94	PC 1695047.67 PI 1695070.22 PT 1695104.14		17°42'12"	92.69'	46.72'	300.0'
L3	B 15425703.94 E 15425777.35	B 1695104.14 E 1695181.66	N46°33'30.16"E		106.77'		
C3	PC 15425777.35 PI 15425811.60 PT 15425858.82	PC 1695181.66 PI 1695217.83 PT 1695233.71		27°58'19"	97.64'	49.81'	200.0'
L4	B 15425858.82 E 15426089.77	B 1695233.71 E 1695311.37	N18°35'11.31"E		243.66'		
C4	PC 15426089.77 PI 15426138.31 PT 15426153.47	PC 1695311.37 PI 1695327.68 PT 1695278.79		91°21'44"	79.73'	51.20'	50.0'
L5	B 15426153.47 E 15426165.49	B 1695278.79 E 1695240.00	N72°46'32.74"W		40.60'		
C5	PC 15426165.49 PI 15426172.07 PT 15426187.01	PC 1695240.00 PI 1695218.78 PT 1695202.35		25°02'58"	43.72'	22.21'	100.0'
L6	B 15426187.01 E 15426236.57	B 1695202.35 E 1695147.83	N47°43'34.86"W		73.67'		

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED TEMPORARY ACCESS ROAD
TAR-5 @ M.P. 87.71
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

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APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/TAR-5.1	SHEET 78 OF 102
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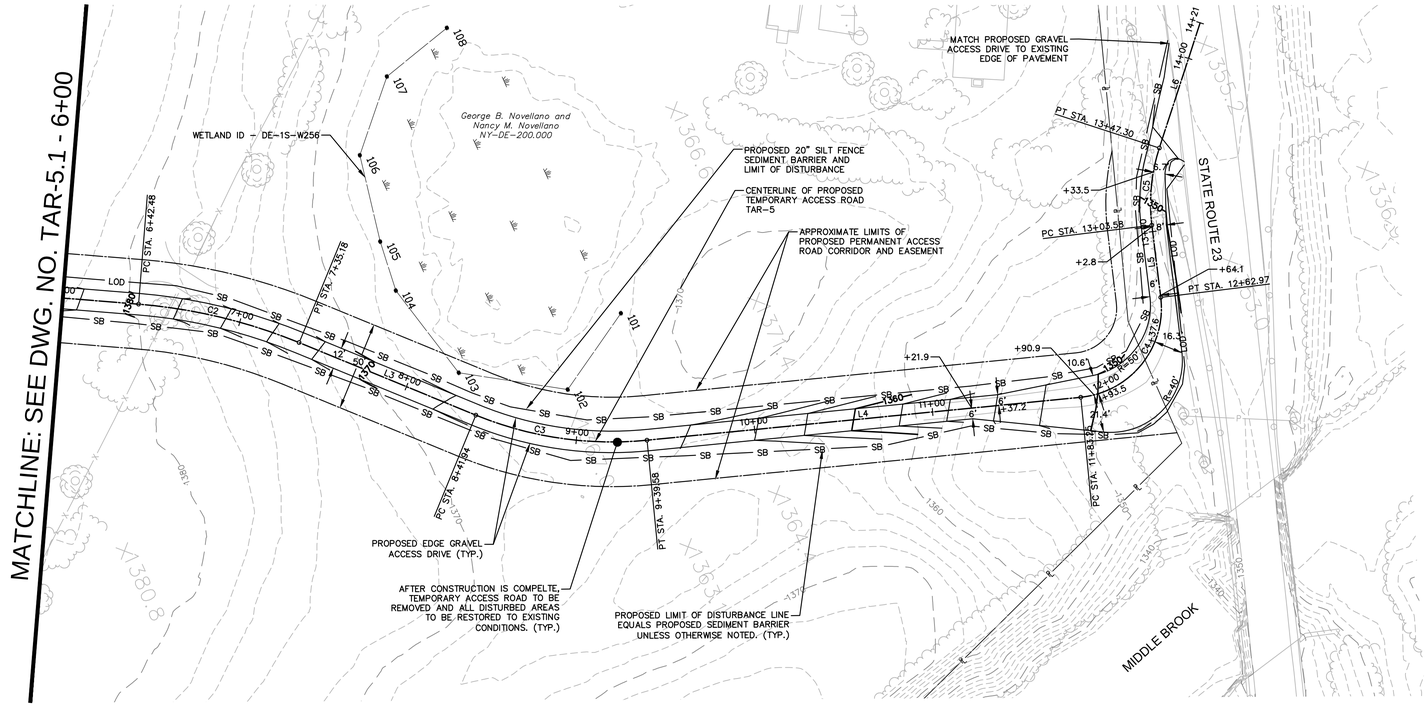

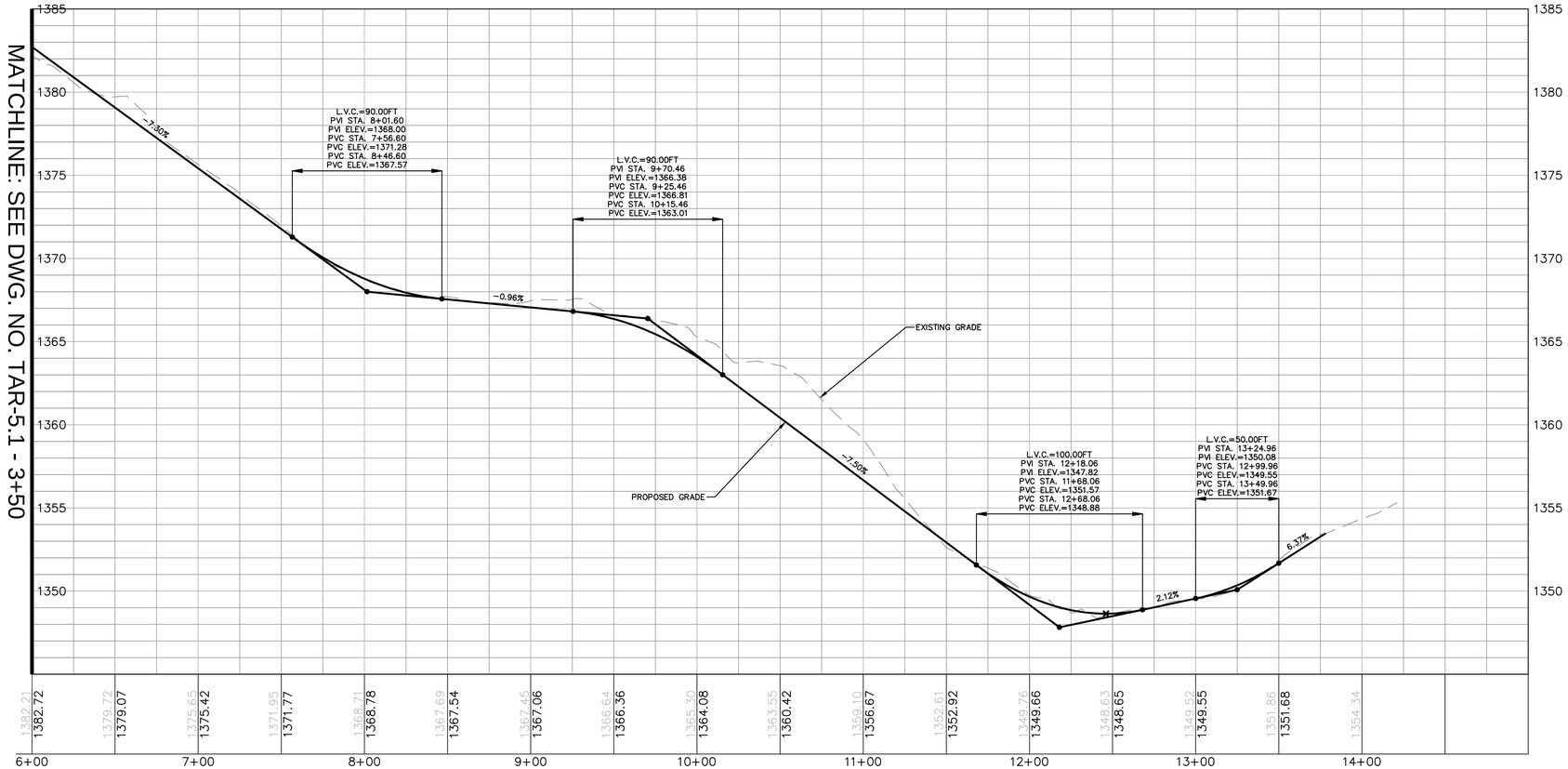

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

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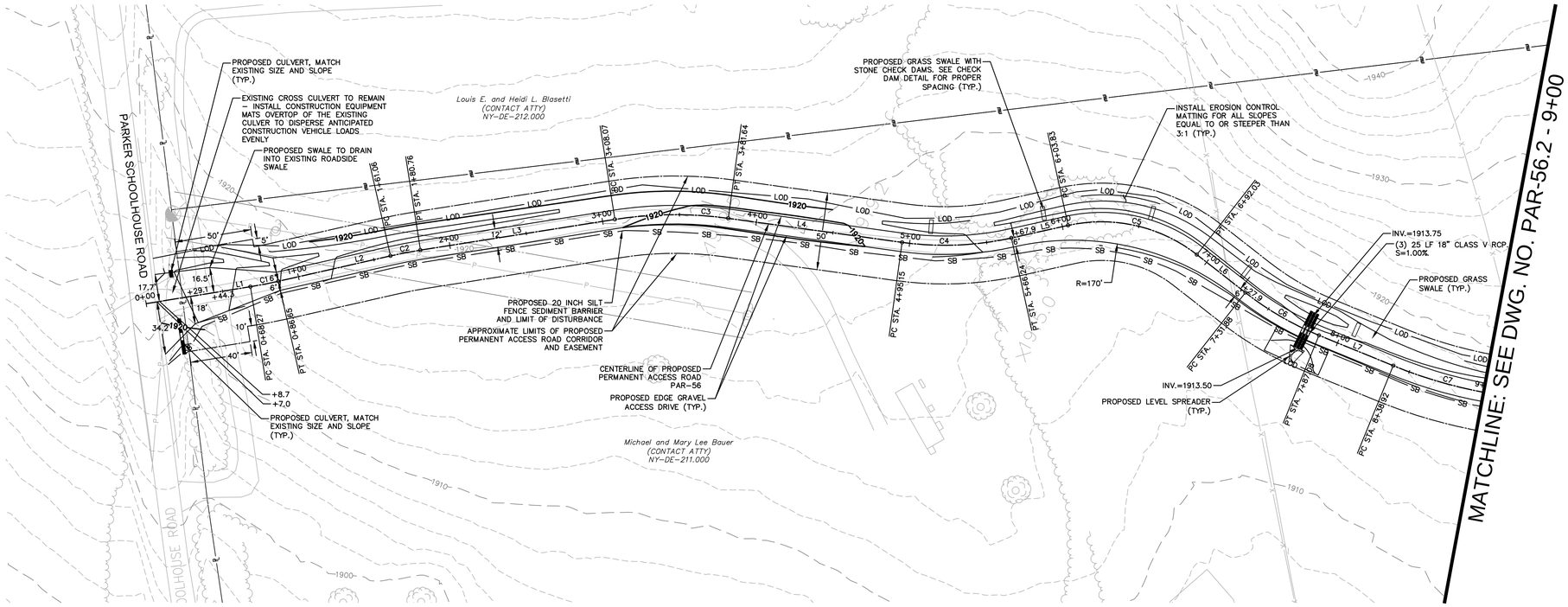

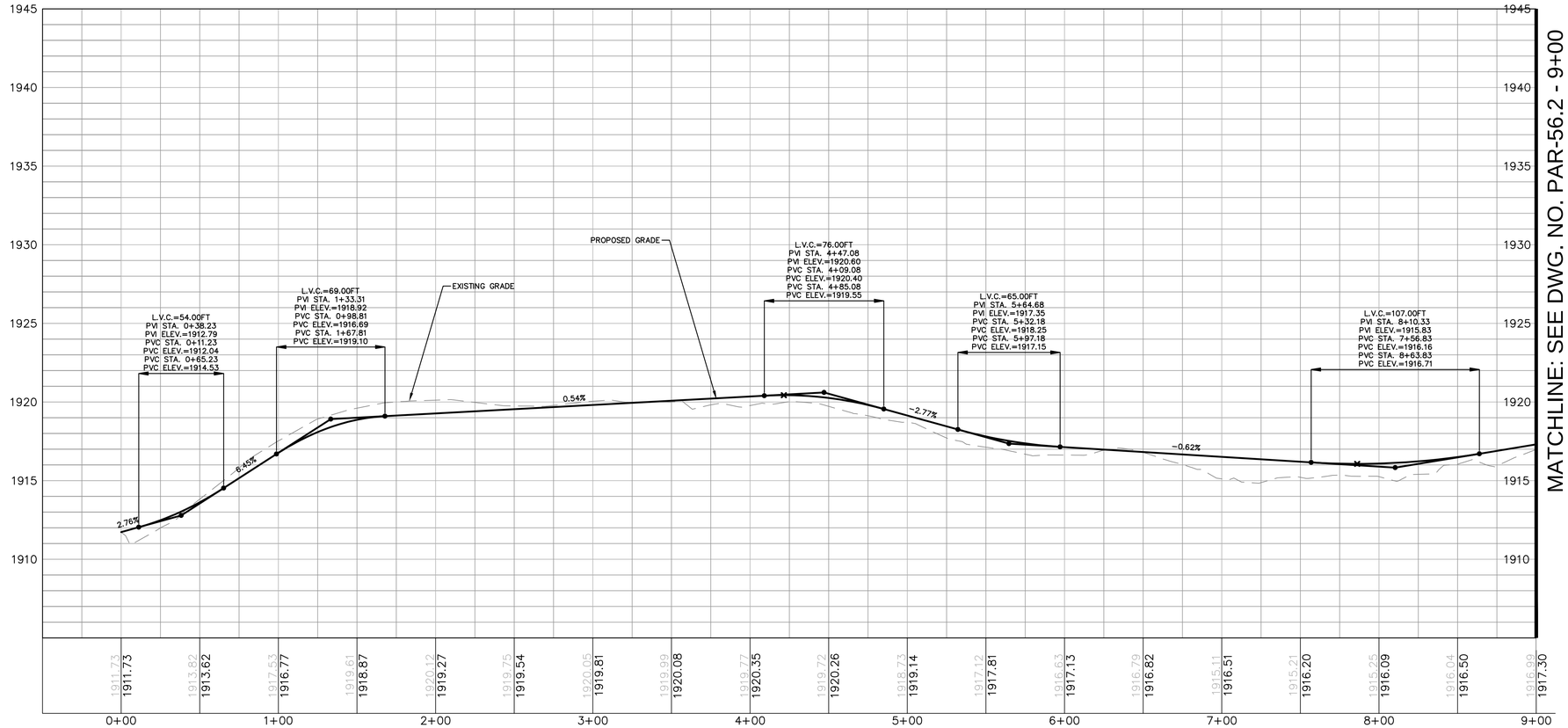

PAR-56							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15431315.81 E 15431261.83	B 1701272.00 E 1701313.79	S37°44'44.01"E		68.27'		
C1	PC 15431261.83 PI 15431254.56 PT 15431247.65	PC 1701313.79 PI 1701319.42 PT 1701325.48		3°30'34"	18.38'	9.19'	300.0'
L2	B 15431247.65 E 15431191.71	B 1701325.48 E 1701374.55	S41°15'18.17"E		74.41'		
C2	PC 15431191.71 PI 15431184.30 PT 15431176.48	PC 1701374.55 PI 1701381.05 PT 1701387.04		3°45'48"	19.70'	9.86'	300.0'
L3	B 15431176.48 E 15431075.47	B 1701387.04 E 1701464.53	S37°29'30.49"E		127.31'		
C3	PC 15431075.47 PI 15431046.07 PT 15431011.39	PC 1701464.53 PI 1701487.08 PT 1701500.14		16°51'40"	73.57'	37.05'	250.0'
L4	B 15431011.39 E 15430905.17	B 1701500.14 E 1701540.13	S20°37'50.45"E		113.50'		
C4	PC 15430905.17 PI 15430871.54 PT 15430844.43	PC 1701540.13 PI 1701552.79 PT 1701576.36		20°22'02"	71.09'	35.93'	200.0'
L5	B 15430844.43 E 15430816.06	B 1701576.36 E 1701601.02	S40°59'52.31"E		37.59'		
C5	PC 15430816.06 PI 15430780.44 PT 15430733.89	PC 1701601.02 PI 1701631.98 PT 1701624.16		50°31'53"	88.19'	47.20'	100.0'
L6	B 15430733.89 E 15430694.59	B 1701624.16 E 1701617.56	S9°32'00.58"W		39.86'		
C6	PC 15430694.59 PI 15430667.20 PT 15430639.59	PC 1701617.56 PI 1701612.98 PT 1701616.00		15°48'47"	55.20'	27.78'	200.0'
L7	B 15430639.59 E 15430588.05	B 1701616.00 E 1701621.67	S6°16'46.06"E		51.84'		
C7	PC 15430588.05 PI 15430551.61 PT 15430517.20	PC 1701621.67 PI 1701625.68 PT 1701638.35		13°56'13"	72.97'	36.67'	300.0'
L8	B 15430517.20 E 15430322.98	B 1701638.35 E 1701709.87	S20°12'59.11"E		206.96'		
C8	PC 15430322.98 PI 15430278.76 PT 15430246.46	PC 1701709.87 PI 1701726.16 PT 1701760.47		26°31'01"	92.56'	47.13'	200.0'
L9	B 15430246.46 E 15430241.57	B 1701760.47 E 1701765.67	S46°44'00.21"E		7.14'		
C9	PC 15430241.57 PI 15430209.20 PT 15430164.87	PC 1701765.67 PI 1701800.06 PT 1701816.34		26°34'15"	92.75'	47.22'	200.0'
L10	B 15430164.87 E 15430132.94	B 1701816.34 E 1701828.06	S20°09'45.27"E		34.02'		

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HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-56 @ M.P. 89.37
TOWN OF HARPERSFIELD
DELAWARE COUNTY, NEW YORK

ISSUED FOR BID
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W.O.:			

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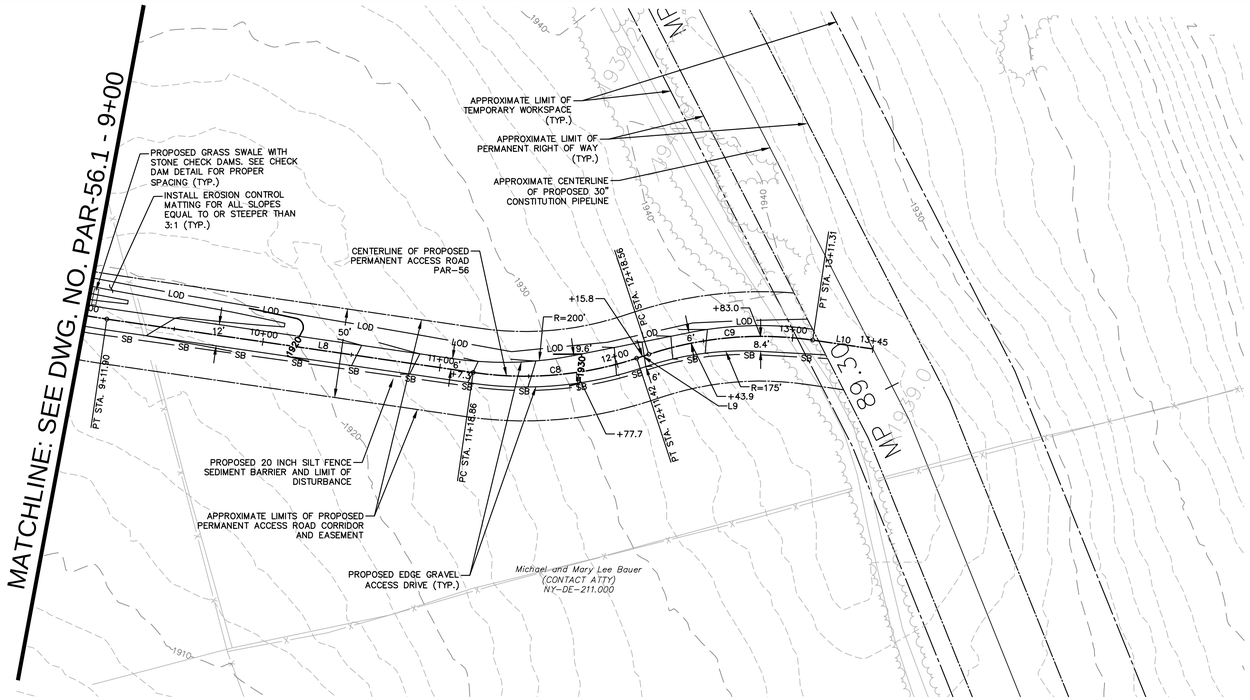
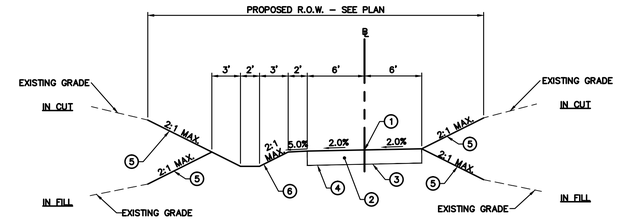
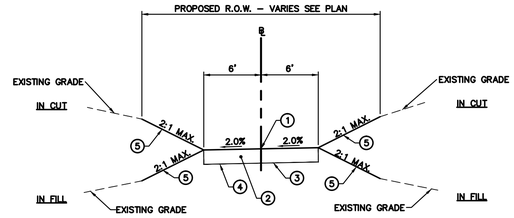




TYPICAL SECTION STA. 0+00 TO 10+00



TYPICAL SECTION STA. 10+00 TO 13+45.33

TYPICAL SECTION LEGEND

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2. 12" LAYER CRUSHER RUN GRAVEL
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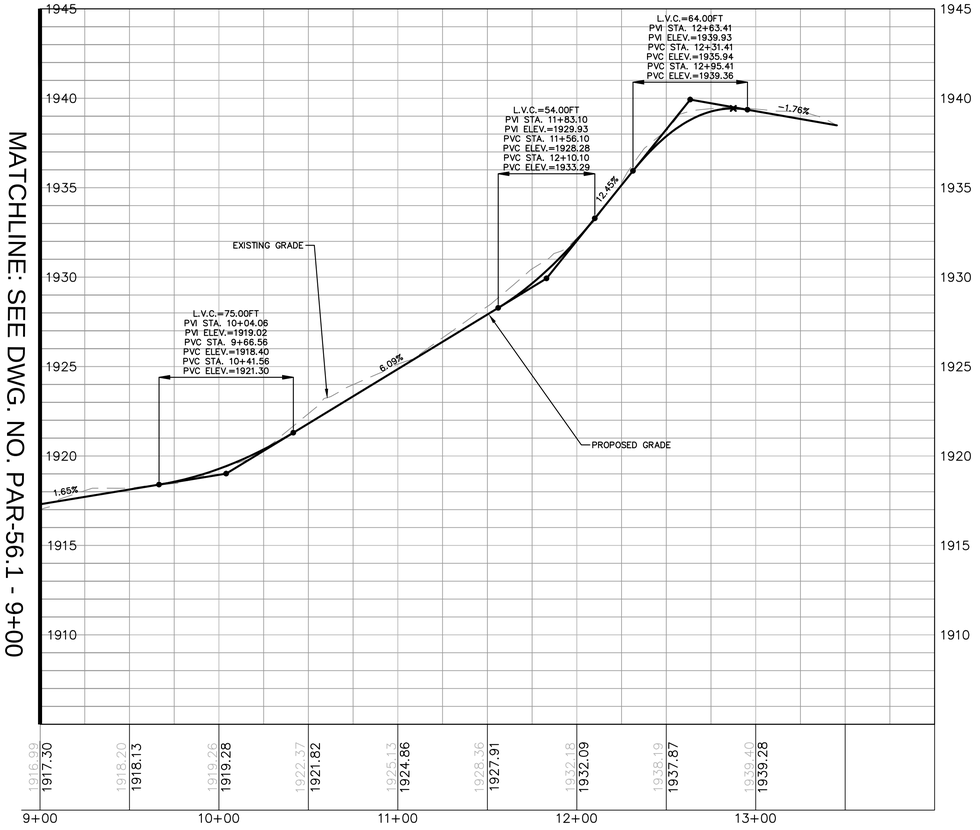

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

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ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-56 @ M.P. 89.37
TOWN OF HARPERSFIELD
DELAWARE COUNTY, NEW YORK

ARCHITECTURE
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APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-56.2	SHEET 81 OF 102
W.O.			

DIGITAL AS-BUILT DATA
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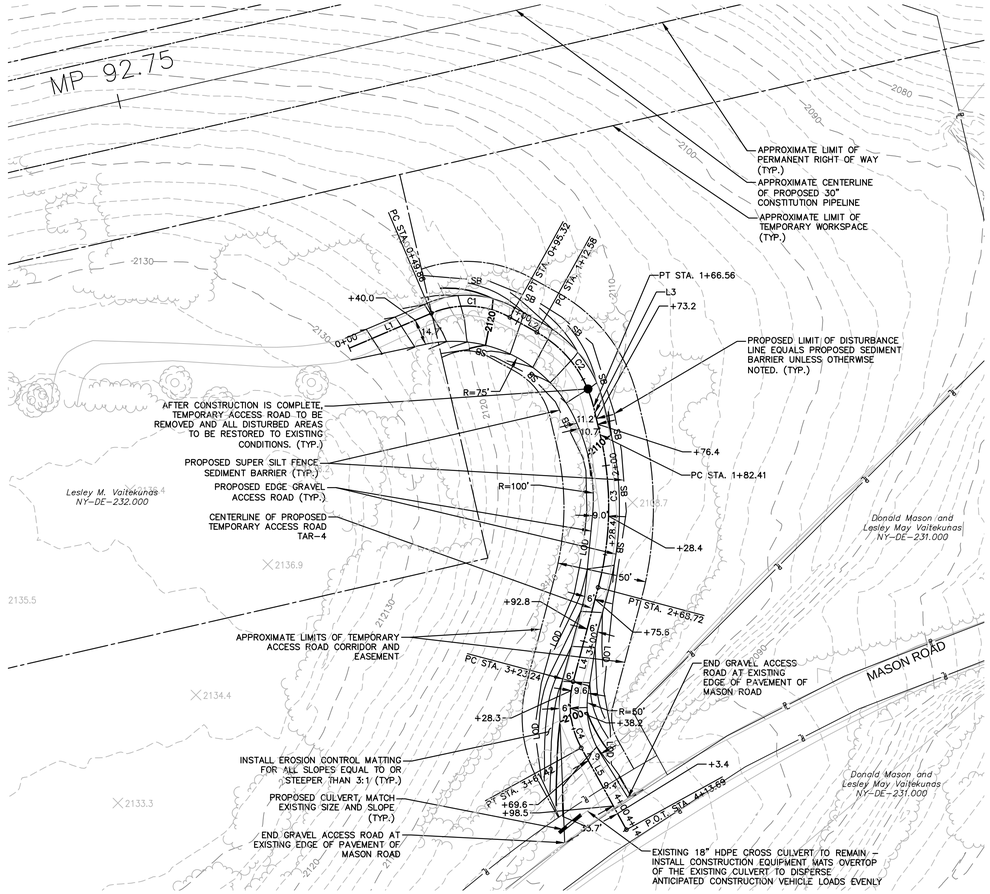

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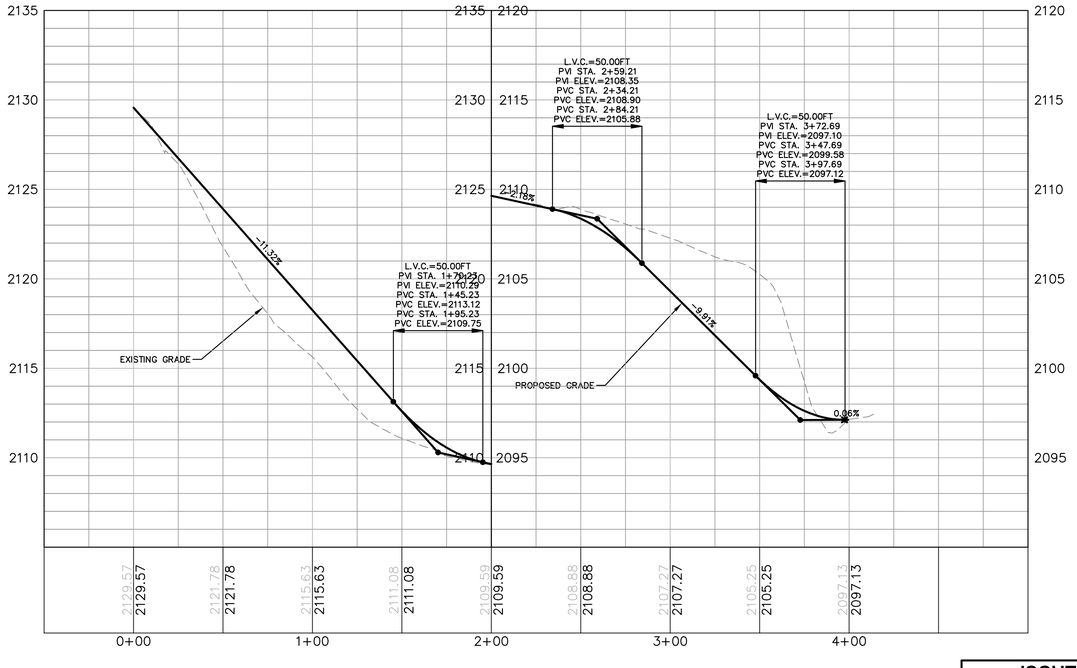
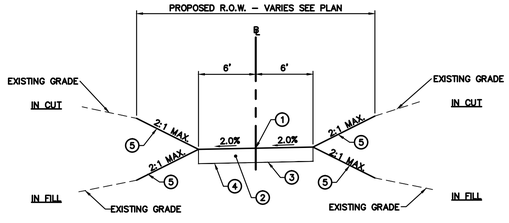
TAR-4						
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15439205.46 E 15439224.99	B 1716787.90 E 1716833.77	N66°56'09.58"E		49.86'		
C1	PC 15439224.99 PI 15439234.57 PT 15439222.70	PC 1716833.77 PI 1716856.26 PT 1716877.63		52°06'08"	45.47'	24.44'	50.0'
L2	B 15439222.70 E 15439214.33	B 1716877.63 E 1716892.72	S60°57'42.54"E		17.26'		
C2	PC 15439214.33 PI 15439200.42 PT 15439172.54	PC 1716892.72 PI 1716917.77 PT 1716924.40		47°34'45"	53.98'	28.65'	65.0'
L3	B 15439172.54 E 15439157.12	B 1716924.40 E 1716928.07	S13°22'57.54"E		15.85'		
C3	PC 15439157.12 PI 15439114.27 PT 15439071.69	PC 1716928.07 PI 1716938.27 PT 1716926.96		28°15'27"	86.31'	44.05'	175.0'
L4	B 15439071.69 E 15439018.99	B 1716926.96 E 1716912.96	S14°52'29.34"W		54.53'		
C4	PC 15439018.99 PI 15438999.59 PT 15438982.01	PC 1716912.96 PI 1716907.81 PT 1716917.50		43°45'10"	38.18'	20.08'	50.0'
L5	B 15438982.01 E 15438936.25	B 1716917.50 E 1716942.75	S28°52'41.01"E		52.26'		

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED





TYPICAL SECTION STA. 0+00 TO 4+00

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

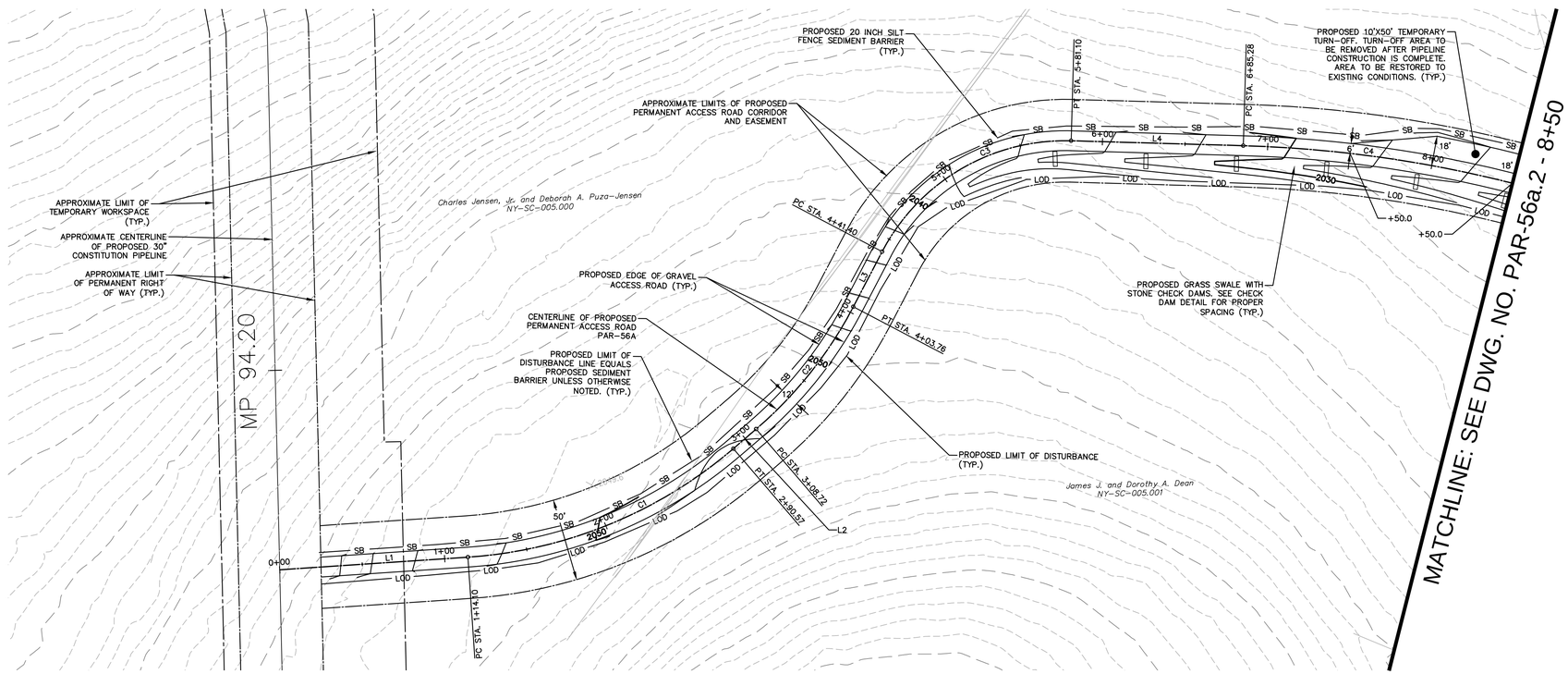
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS - ROAD DESIGN PLAN
PROPOSED TEMPORARY ACCESS ROAD
TAR-4 @ M.P. 92.83
TOWN OF HARPERSFIELD
DELAWARE COUNTY, NEW YORK

ISSUED FOR BID
NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

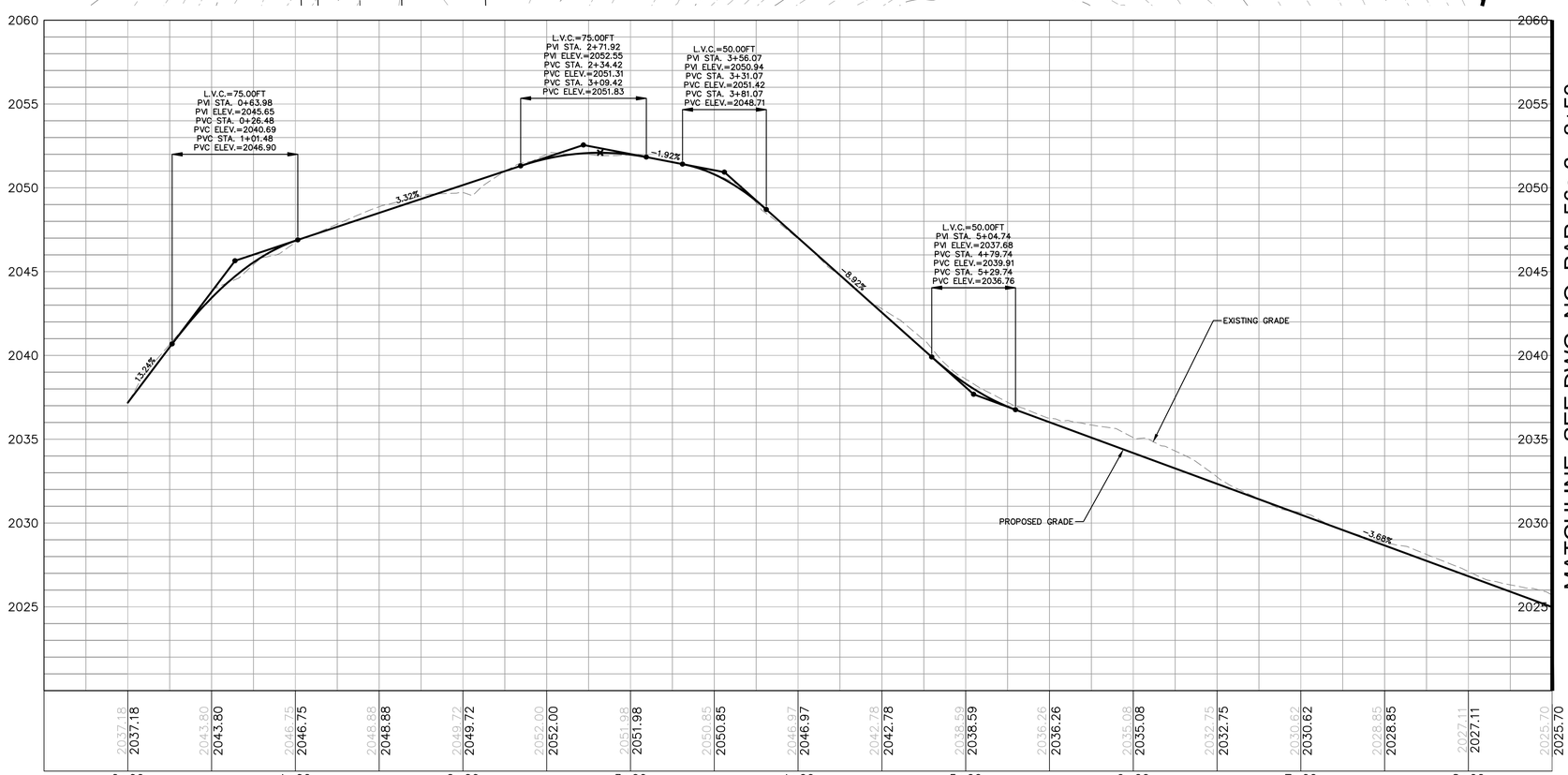
DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/TAR-4	SHEET 82 OF 102
W.O:			



GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

PAR-56a							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15441331.35 E 15441307.56	B 1723152.23 E 1723263.83	S77°58'00.54"E		114.10'		
C1	PC 15441307.56 PI 15441288.51 PT 15441326.75	PC 1723263.83 PI 1723353.21 PT 1723436.22		36°46'00"	176.47'	91.39'	275.0'
L2	B 15441326.75 E 15441334.34	B 1723436.22 E 1723452.70	N65°15'59.92"E		18.15'		
C2	PC 15441334.34 PI 15441354.46 PT 15441389.36	PC 1723452.70 PI 1723496.39 PT 1723529.49		21°46'52"	95.04'	48.10'	250.0'
L3	B 15441389.36 E 15441416.67	B 1723529.49 E 1723555.40	N43°29'08.41"E		37.65'		
C3	PC 15441416.67 PI 15441473.38 PT 15441449.86	PC 1723555.40 PI 1723609.18 PT 1723683.71		64°01'53"	139.70'	78.16'	125.0'
L4	B 15441449.86 E 15441418.50	B 1723683.71 E 1723783.06	S72°28'58.29"E		104.18'		
C4	PC 15441418.50 PI 15441387.63 PT 15441331.64	PC 1723783.06 PI 1723880.86 PT 1723966.79		15°34'22"	203.85'	102.56'	750.0'
L5	B 15441331.64 E 15441316.53	B 1723966.79 E 1723989.97	S56°54'36.12"E		27.67'		
C5	PC 15441316.53 PI 15441272.43 PT 15441304.67	PC 1723989.97 PI 1724057.64 PT 1724131.71		56°36'27"	148.20'	80.78'	150.0'
L6	B 15441304.67 E 15441349.48	B 1724131.71 E 1724234.69	N66°28'57.10"E		112.30'		
C6	PC 15441349.48 PI 15441369.21 PT 15441335.31	PC 1724234.69 PI 1724280.03 PT 1724316.03		66°47'48"	87.44'	49.45'	75.0'
L7	B 15441335.31 E 15441185.69	B 1724316.03 E 1724474.92	S46°43'14.83"E		218.24'		
C7	PC 15441185.69 PI 15441149.03 PT 15441096.01	PC 1724474.92 PI 1724513.85 PT 1724520.81		39°14'32"	102.74'	53.48'	150.0'
L8	B 15441096.01 E 15441083.77	B 1724520.81 E 1724522.41	S7°28'42.33"E		12.35'		
C8	PC 15441083.77 PI 15441045.50 PT 15441040.67	PC 1724522.41 PI 1724527.44 PT 1724565.74		75°20'23"	65.75'	38.60'	50.0'
L9	B 15441040.67 E 15441037.88	B 1724565.74 E 1724587.89	S82°49'05.18"E		22.33'		



MATCHLINE: SEE DWG. NO. PAR-56a.2 - 8+50

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-56a @ M.P. 94.23
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ISSUED FOR BID
NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY: DATE: 10/29/2013 ISSUED FOR BID: SCALE: AS NOTED
CHECKED BY: DATE: ISSUED FOR CONSTRUCTION:
APPROVED BY: DATE:
W.O.:
DRAWING NUMBER: 26-26-85/PAR-56a.1 SHEET 83 OF 102

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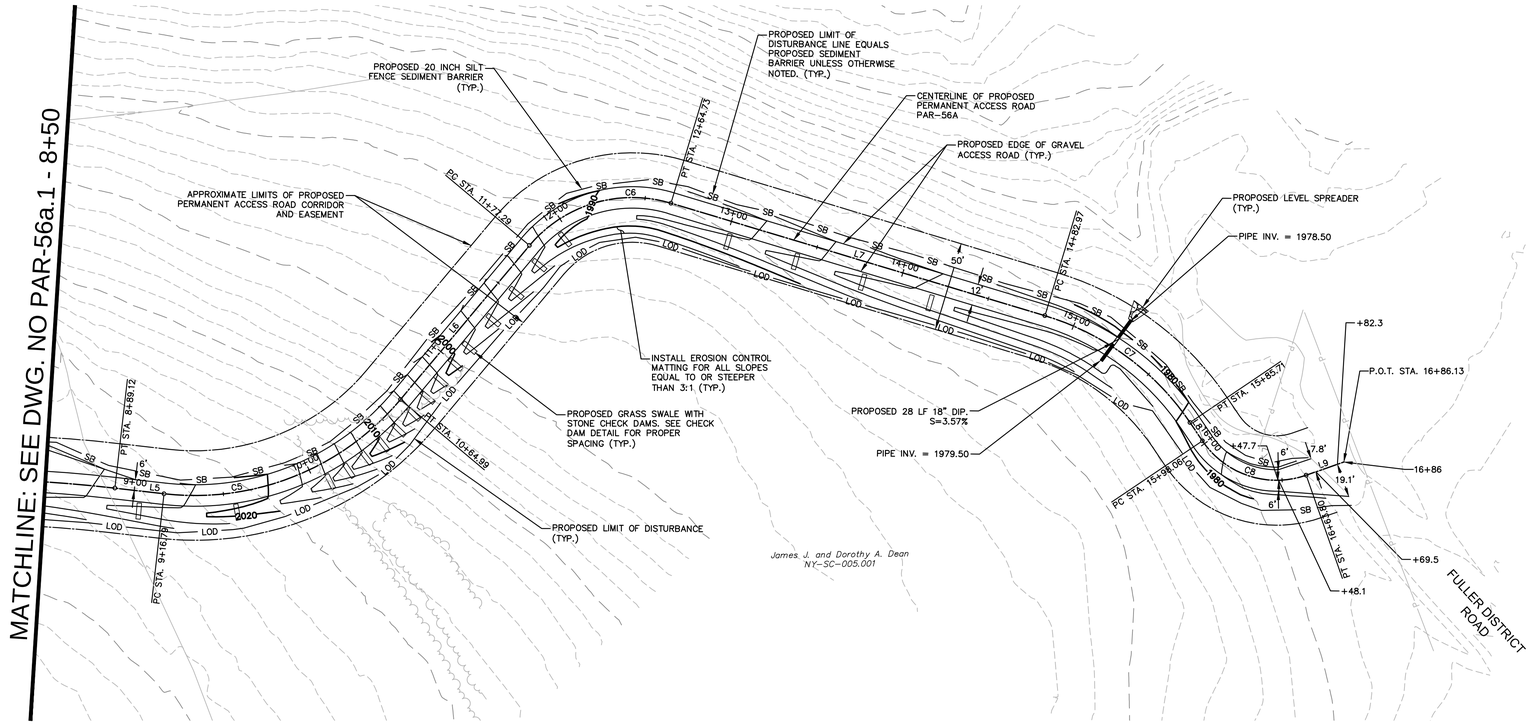
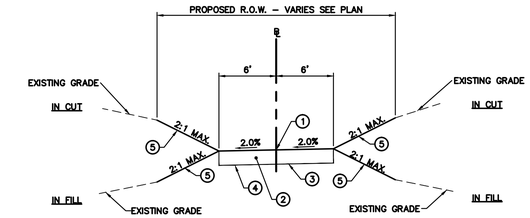
MATCHLINE: SEE DWG. NO PAR-56a.1 - 8+50

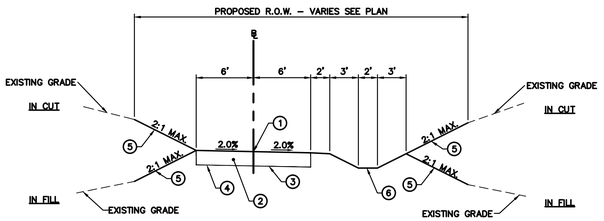


TYPICAL SECTION LEGEND

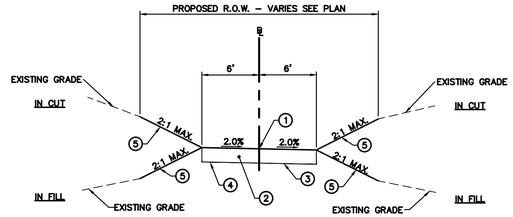
1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)



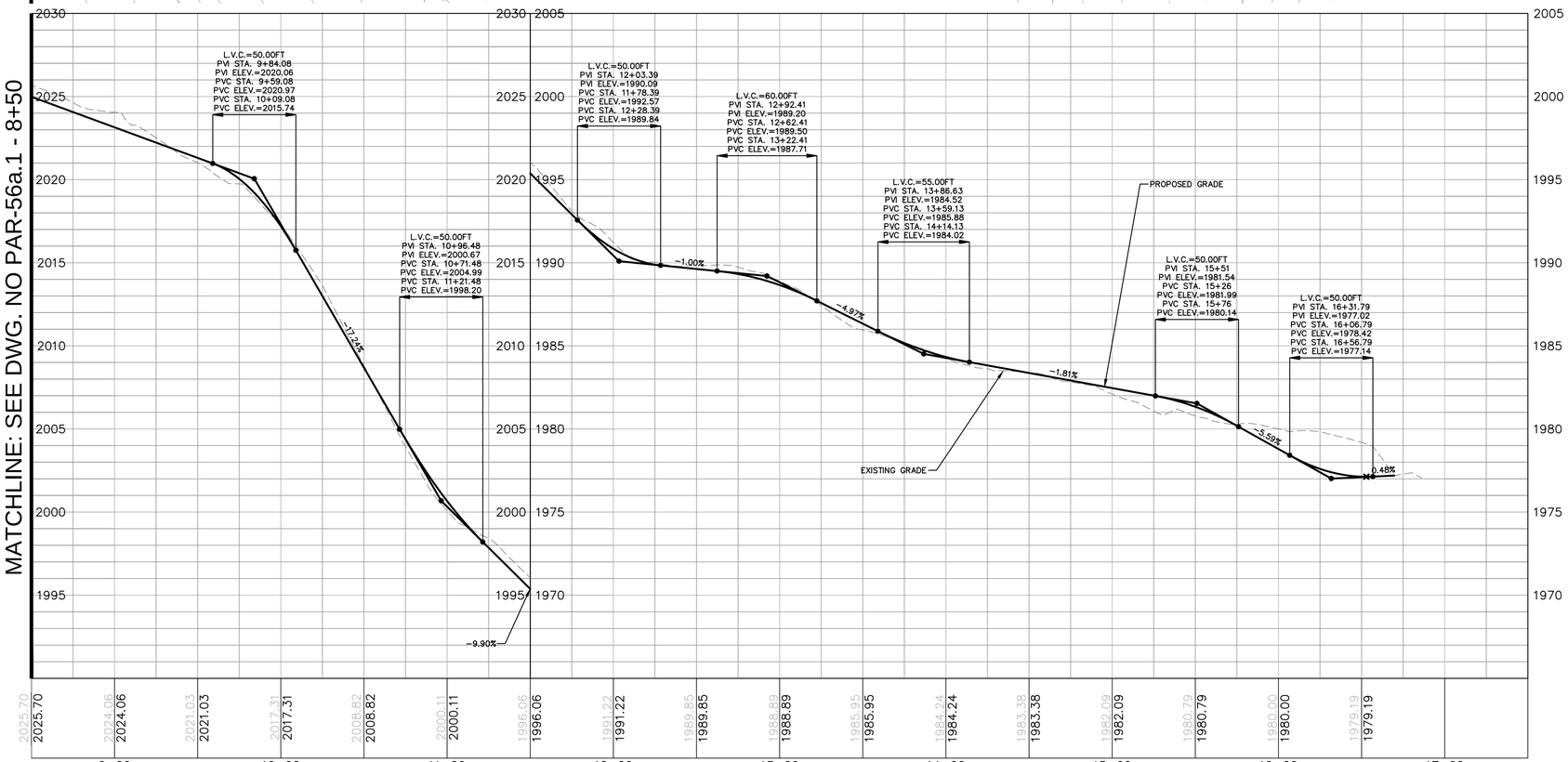
TYPICAL SECTION STA. 0+00 TO 5+00 AND 15+25 TO 16+25



TYPICAL SECTION STA. 5+00 TO 15+25



TYPICAL SECTION STA. 15+25 TO 16+73



HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

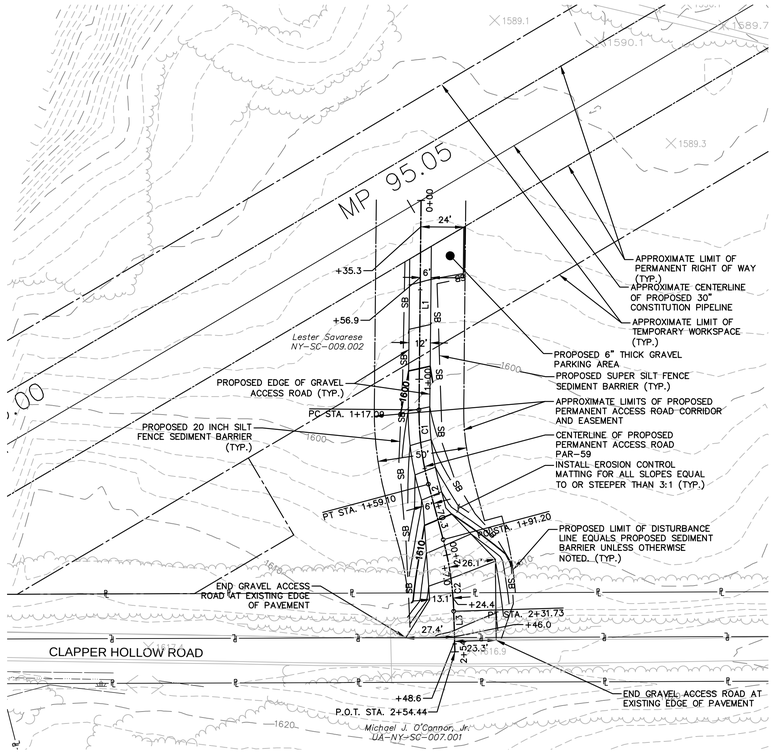
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

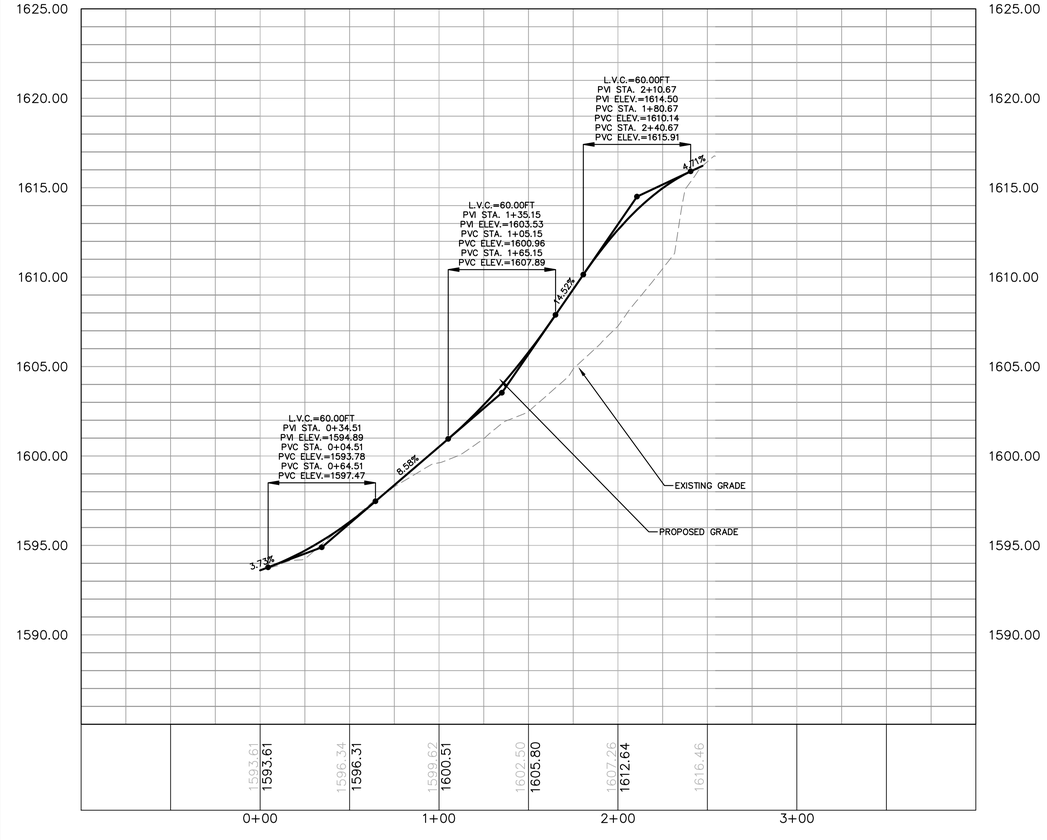
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-56a @ M.P. 94.23
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-56a.2	SHEET 84 OF 102
W.O.:			

DO NOT SCALE DRAWING - USE FIGURED DIMENSIONS ONLY





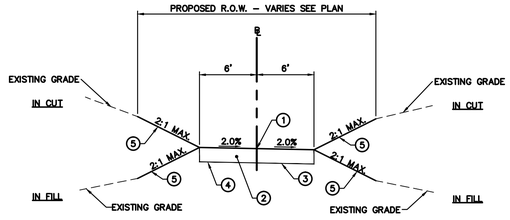
GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

PAR-59							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15444669.99 E 15444552.91	B 1725525.85 E 1725524.71	S0°33'26.19"W		117.09'		
C1	PC 15444552.91 PI 15444531.77 PT 15444511.36	PC 1725524.71 PI 1725524.50 PT 1725529.96		15°31'40"	42.01'	21.13'	155.0'
L2	B 15444511.36 E 15444480.35	B 1725529.96 E 1725538.25	S14°58'13.81"E		32.09'		
C2	PC 15444480.35 PI 15444460.69 PT 15444440.34	PC 1725538.25 PI 1725543.51 PT 1725544.11		13°16'11"	40.53'	20.36'	175.0'
L3	B 15444440.34 E 15444417.63	B 1725544.11 E 1725544.79	S1°42'02.92"E		22.72'		

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED



TYPICAL SECTION STA. 0+00 TO 2+47.36

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-59 @ M.P. 95.11
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-59	SHEET 85 OF 102
W.O.:			

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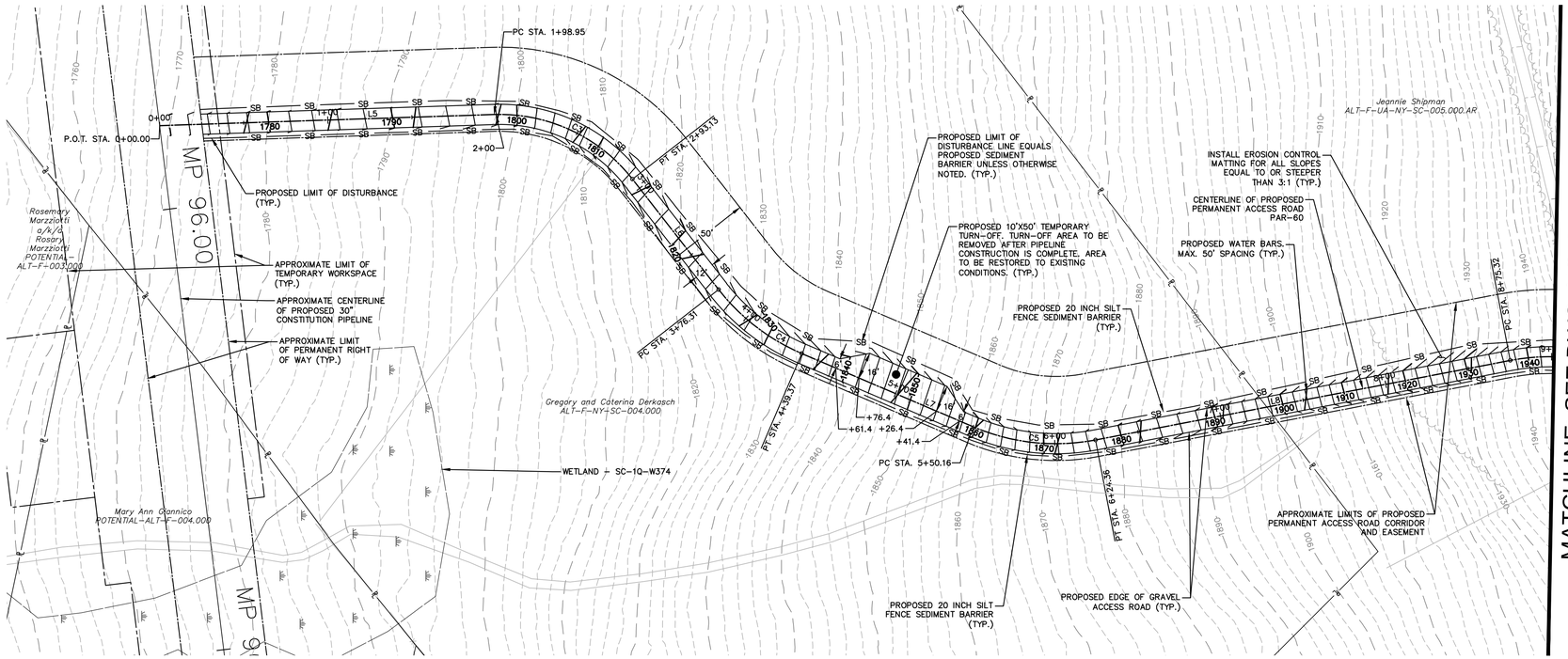

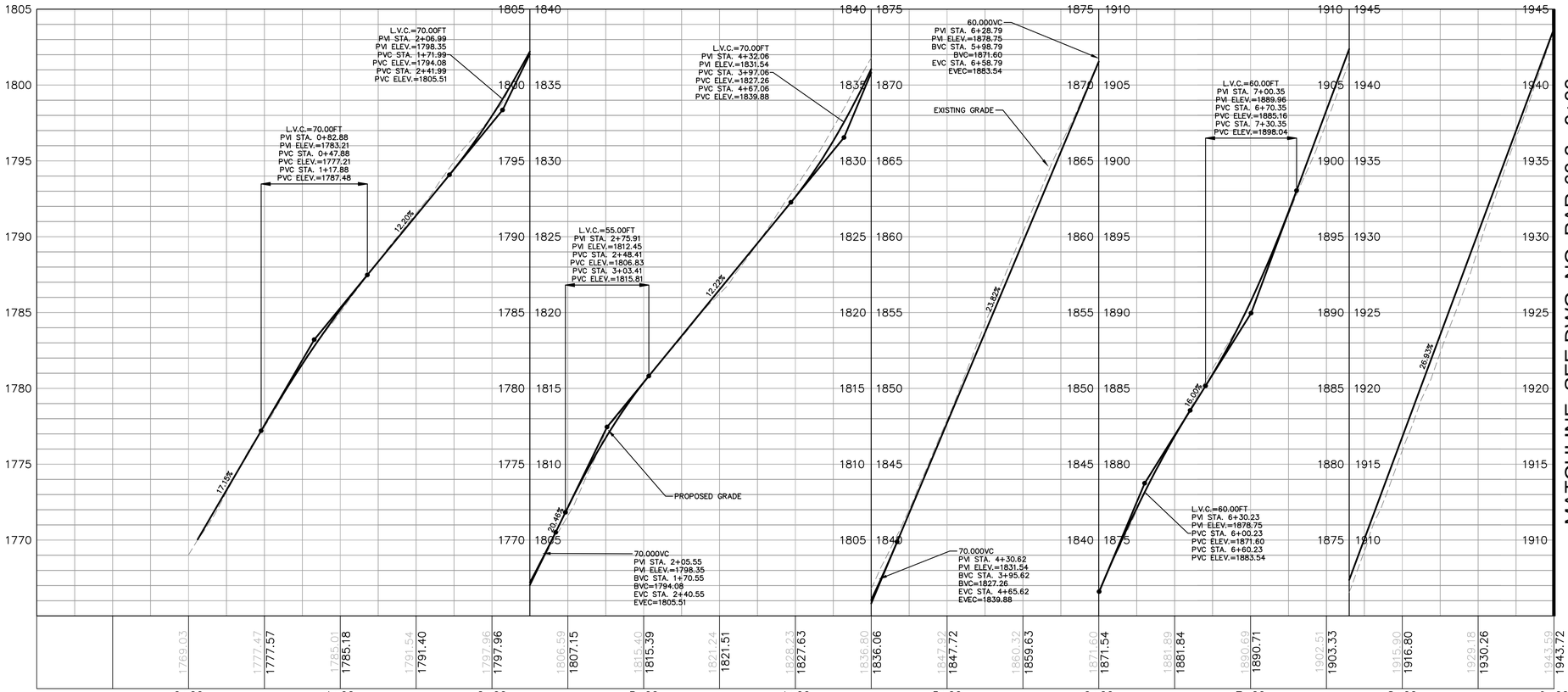

GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.
8. PAR-60 IS LOCATED ON A NO ACCESS PARCEL AND IS A PRELIMINARY DESIGN. THE DESIGN FOR PAR-60 CAN NOT BE FINALIZED UNTIL PERMISSION IS GIVEN TO ACCESS THE PARCEL AND THE EXISTING CONDITIONS CAN BE VERIFIED BY A FIELD SURVEY, INCLUDING WETLAND AND WATERBODY DELINEATIONS.

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS - ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-60 @ M.P. 96.04
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
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APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-60.1	SHEET 86 OF 102
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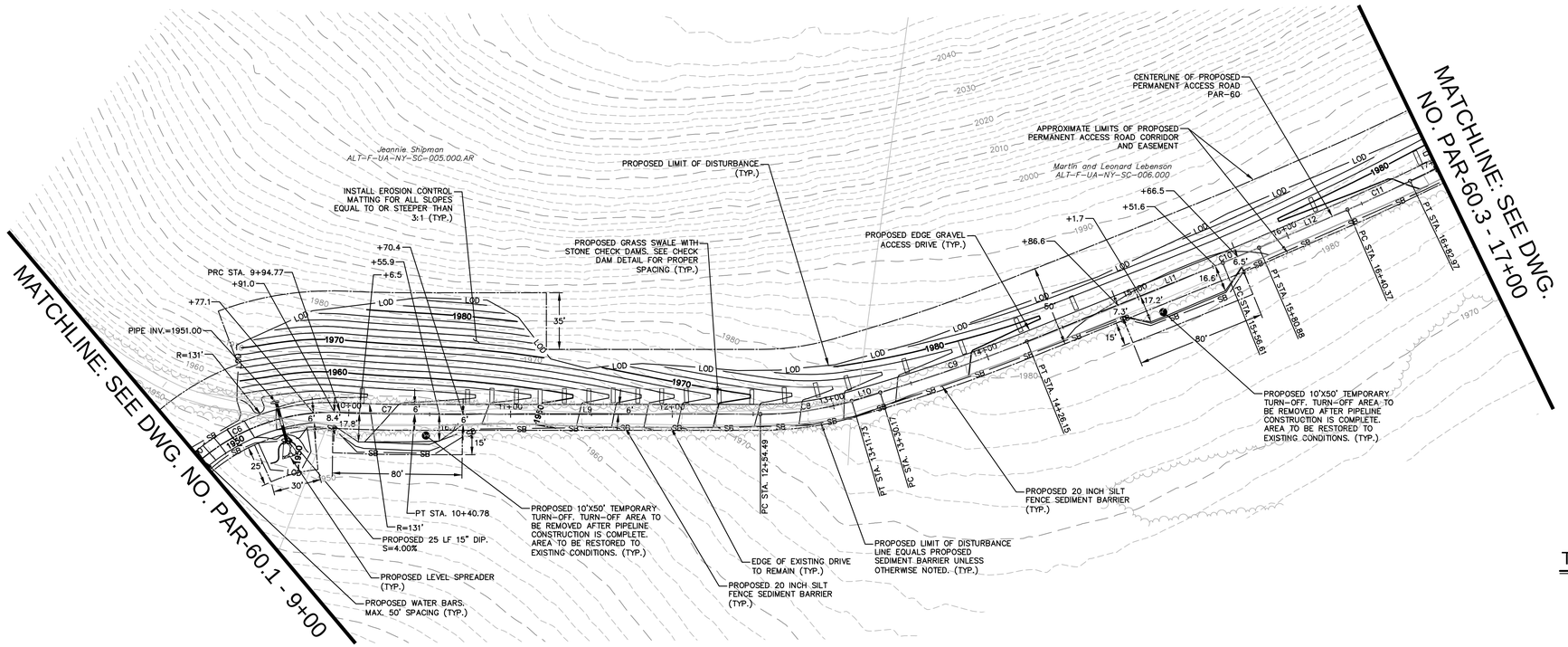
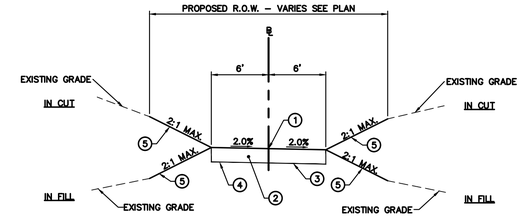
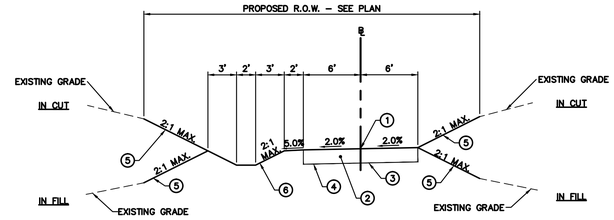


TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)



TYPICAL SECTION STA. 0+00 TO 9+40 AND 20+75 TO 22+62.50



TYPICAL SECTION STA. 9+40 TO 20+75

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-60 @ M.P. 96.04
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-60.2	SHEET 87 OF 102
W/O:			

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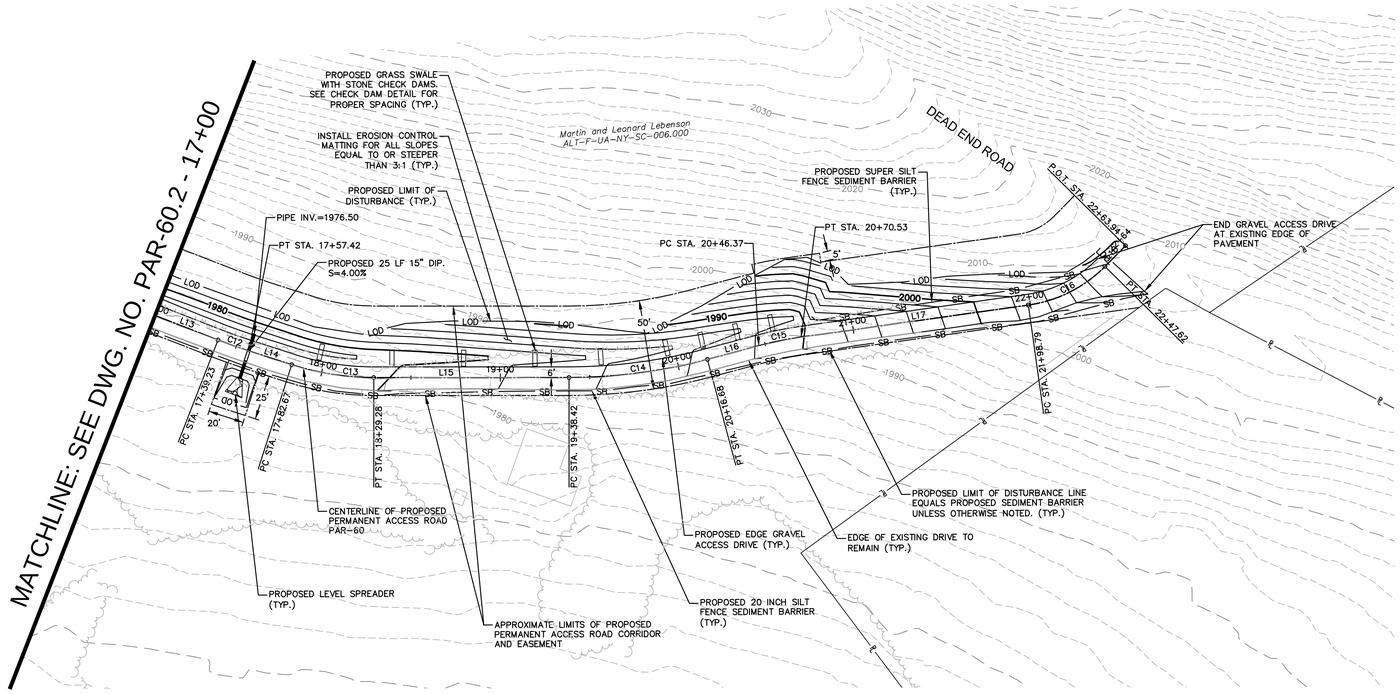

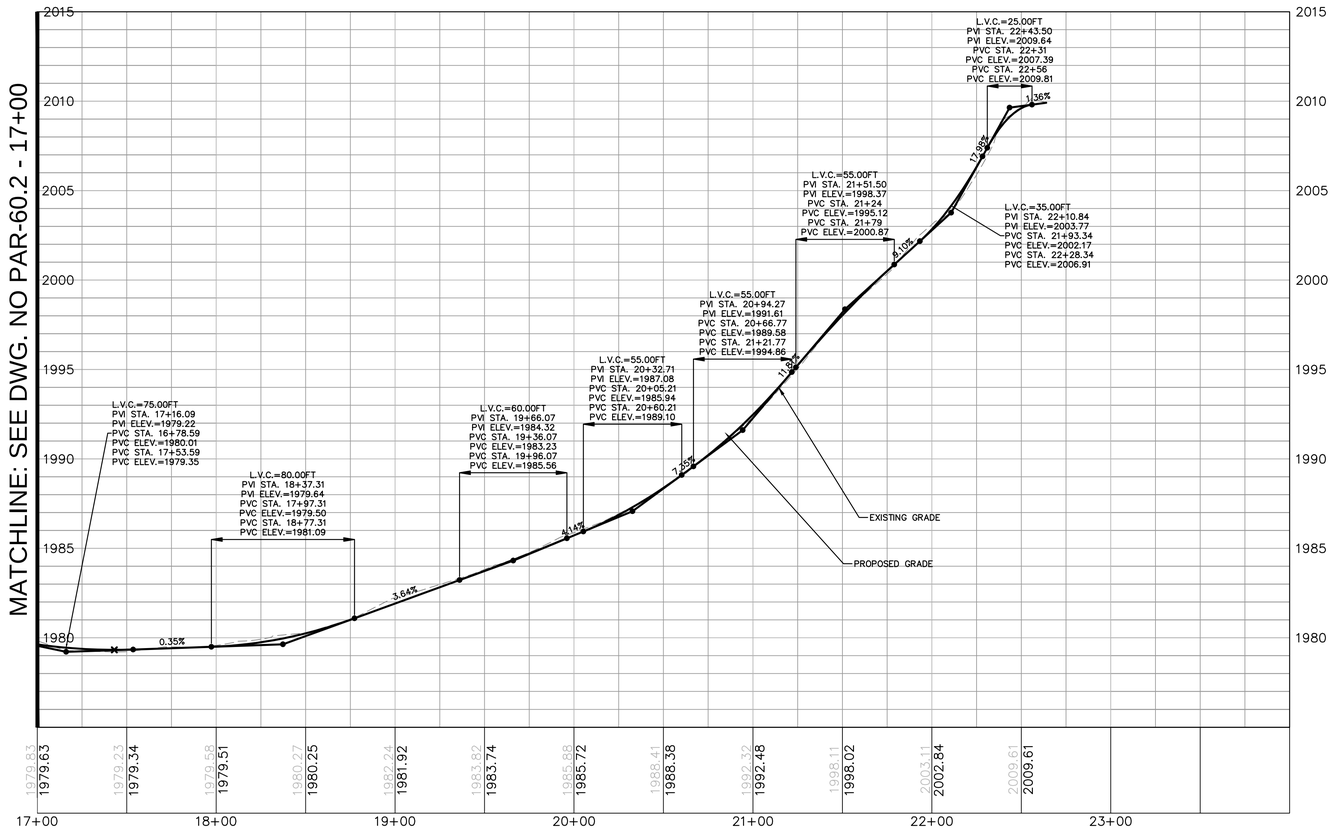

PAR-60							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L5	B 15446617.29 E 15446816.13	B 1729785.43 E 1729778.82	N1°54'13.39"W		198.95'		
C3	PC 15446816.13 PI 15446867.01 PT 15446898.31	PC 1729778.82 PI 1729777.13 PT 1729817.27		53°57'40"	94.18'	50.91'	100.0'
L6	B 15446898.31 E 15446949.46	B 1729817.27 E 1729882.88	N52°03'26.58"E		83.19'		
C4	PC 15446949.46 PI 15446969.27 PT 15446998.90	PC 1729882.88 PI 1729908.28 PT 1729920.95		28°54'20"	63.06'	32.22'	125.0'
L7	B 15446998.90 E 15447100.76	B 1729920.95 E 1729964.51	N23°09'06.77"E		110.78'		
C5	PC 15447100.76 PI 15447135.91 PT 15447173.46	PC 1729964.51 PI 1729979.54 PT 1729972.34		34°00'46"	74.20'	38.23'	125.0'
L8	B 15447173.46 E 15447419.91	B 1729972.34 E 1729925.05	N10°51'39.08"W		250.95'		
C6	PC 15447419.91 PI 15447483.49 PT 15447530.13	PC 1729925.05 PI 1729912.85 PT 1729957.73		54°45'16"	119.46'	64.73'	125.0'
C7	PC 15447530.13 PI 15447546.71 PT 15447564.01	PC 1729957.73 PI 1729973.68 PT 1729988.85		2°38'09"	46.01'	23.01'	1000.0'
L9	B 15447564.01 E 15447724.67	B 1729988.85 E 1730129.79	N41°15'27.26"E		213.71'		
C8	PC 15447724.67 PI 15447746.33 PT 15447772.48	PC 1730129.79 PI 1730148.79 PT 1730160.91		16°23'55"	57.24'	28.82'	200.0'
L10	B 15447772.48 E 15447789.20	B 1730160.91 E 1730168.65	N24°51'32.26"E		18.43'		
C9	PC 15447789.20 PI 15447832.78 PT 15447878.10	PC 1730168.65 PI 1730188.85 PT 1730204.77		5°29'59"	95.99'	48.03'	1000.0'
L11	B 15447878.10 E 15448001.18	B 1730204.77 E 1730248.01	N19°21'33.67"E		130.45'		
C10	PC 15448001.18 PI 15448012.63 PT 15448024.17	PC 1730248.01 PI 1730252.04 PT 1730255.78		1°23'27"	24.27'	12.14'	1000.0'
L12	B 15448024.17 E 15448080.76	B 1730255.78 E 1730274.13	N17°58'06.96"E		59.49'		
C11	PC 15448080.76 PI 15448101.03 PT 15448121.56	PC 1730274.13 PI 1730280.71 PT 1730286.41		2°26'27"	42.60'	21.30'	1000.0'
L13	B 15448121.56 E 15448175.76	B 1730286.41 E 1730301.47	N15°31'39.80"E		56.26'		
C12	PC 15448175.76 PI 15448184.53 PT 15448193.42	PC 1730301.47 PI 1730303.90 PT 1730305.80		3°28'29"	18.19'	9.10'	300.0'
L14	B 15448193.42 E 15448218.12	B 1730305.80 E 1730311.08	N12°03'10.94"E		25.25'		
C13	PC 15448218.12 PI 15448241.09 PT 15448264.47	PC 1730311.08 PI 1730315.98 PT 1730313.63		17°48'16"	46.61'	23.50'	150.0'
L15	B 15448264.47 E 15448373.05	B 1730313.63 E 1730302.69	N5°45'04.58"W		109.13'		
C14	PC 15448373.05 PI 15448412.21 PT 15448449.03	PC 1730302.69 PI 1730298.75 PT 1730284.84		14°56'54"	78.27'	39.36'	300.0'
L16	B 15448449.03 E 15448476.80	B 1730284.84 E 1730274.35	N20°41'58.43"W		29.68'		
C15	PC 15448476.80 PI 15448488.11 PT 15448499.86	PC 1730274.35 PI 1730270.07 PT 1730267.19		6°55'16"	24.16'	12.09'	200.0'
L17	B 15448499.86 E 15448624.43	B 1730267.19 E 1730236.64	N13°46'42.43"W		128.27'		
C16	PC 15448624.43 PI 15448649.02 PT 15448664.92	PC 1730236.64 PI 1730230.61 PT 1730210.91		37°18'14"	48.83'	25.32'	75.0'
L18	B 15448664.92 E 15448675.17	B 1730210.91 E 1730198.22	N51°04'56.54"W		16.32'		

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-60 @ M.P. 96.04
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-60.3	SHEET 88 OF 102
W/O:			

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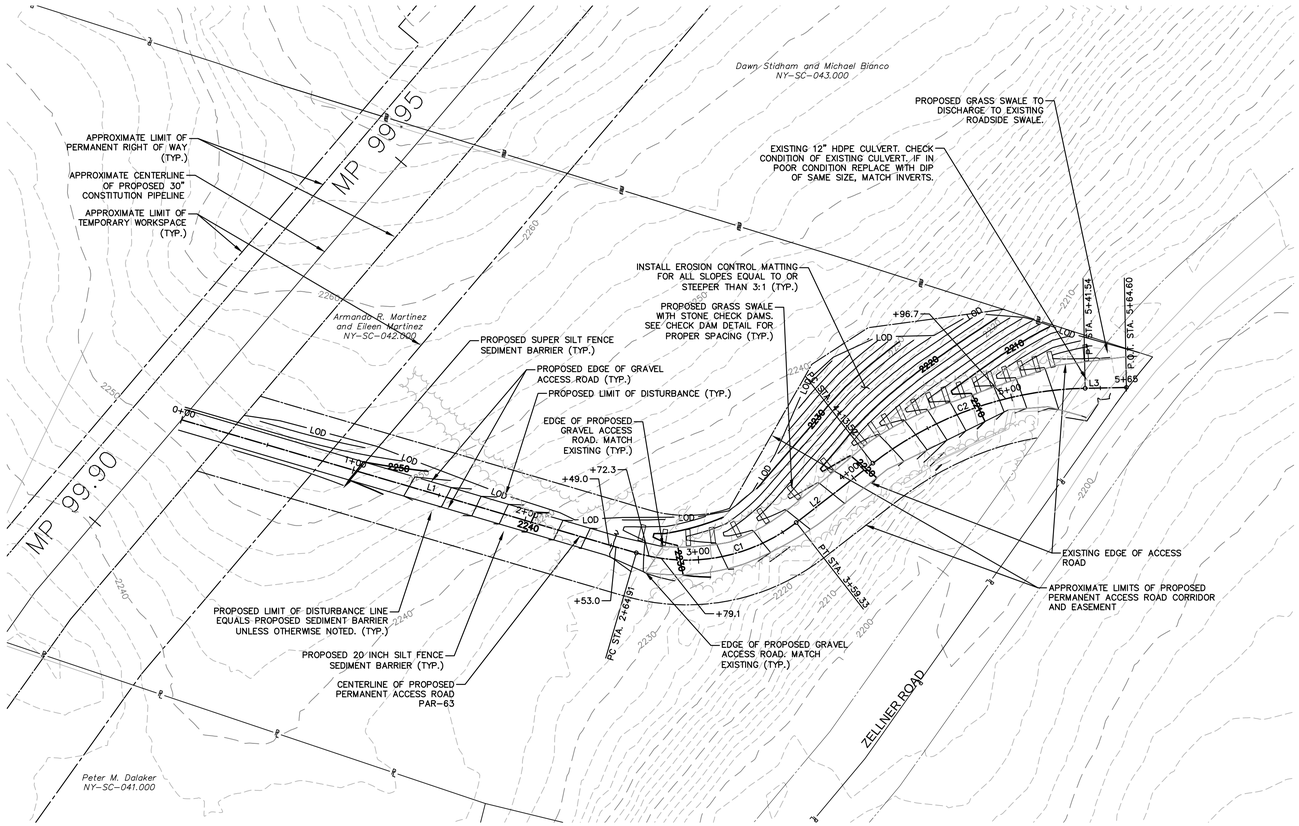
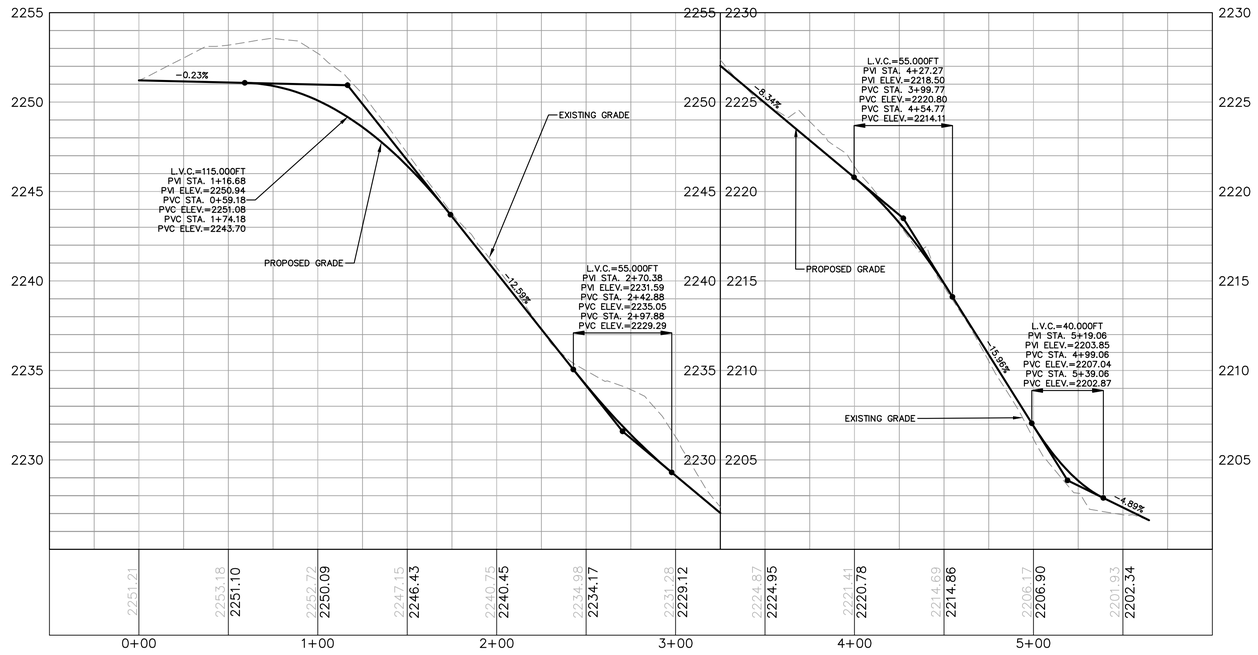




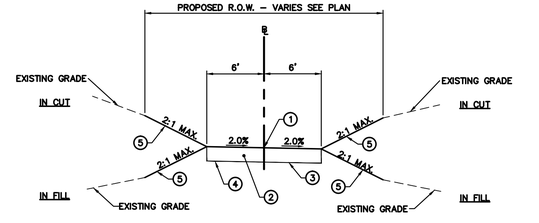
GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

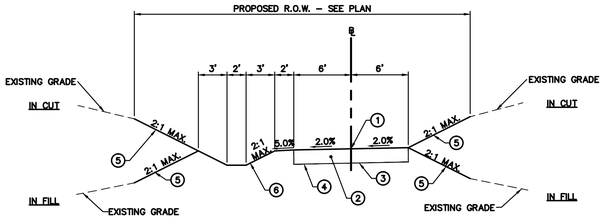
PAR-63							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15459196.41 E 15459121.99	B 1743824.64 E 1744078.89	S73°41'01.31"E		264.91'		
C1	PC 15459121.99 PI 15459107.64 PT 15459138.93	PC 1744078.89 PI 1744127.80 PT 1744168.25		54°06'04"	94.42'	51.06'	100.0'
L2	B 15459138.93 E 15459172.13	B 1744168.25 E 1744211.08	N52°12'55.06"E		54.19'		
C2	PC 15459172.13 PI 15459212.74 PT 15459214.03	PC 1744211.08 PI 1744263.46 PT 1744329.73		36°40'22"	128.01'	66.28'	200.0'
L3	B 15459214.03 E 15459214.47	B 1744329.73 E 1744352.80	N88°53'16.99"E		23.07'		

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)



TYPICAL SECTION STA. 0+00 TO 2+50 AND 5+50 TO 5+55.67



TYPICAL SECTION STA. 2+50 TO 5+50

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

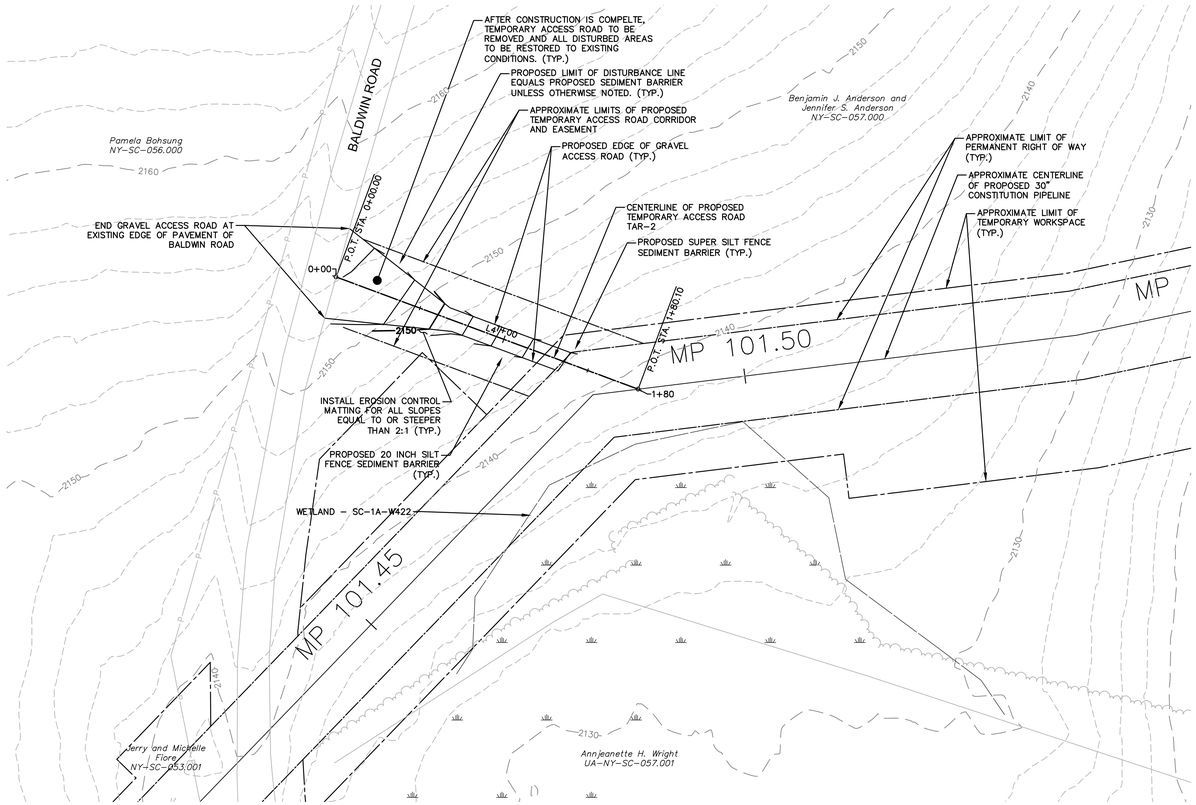
ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-63 @ M.P. 99.97
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

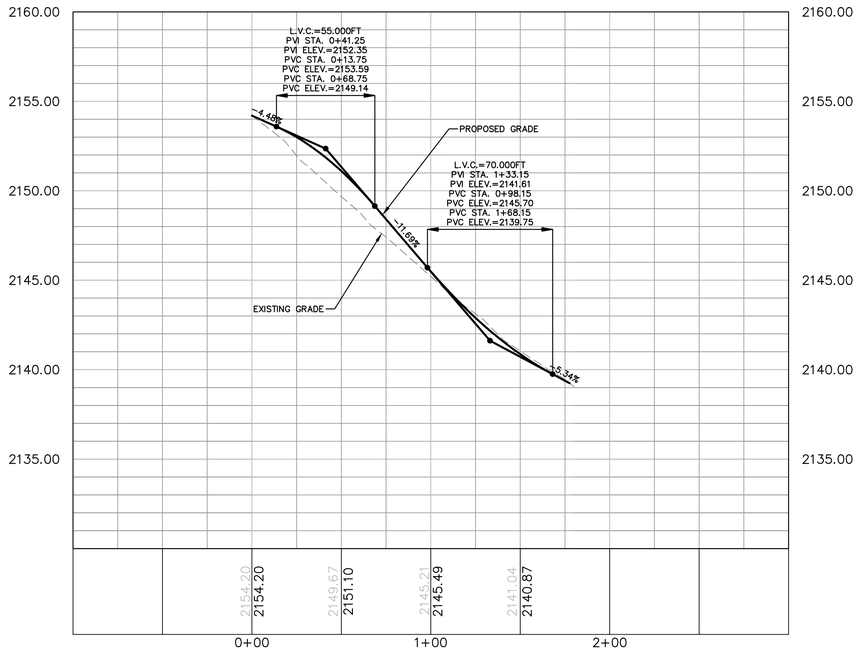
DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-63	SHEET 89 OF 102
W.O.:			

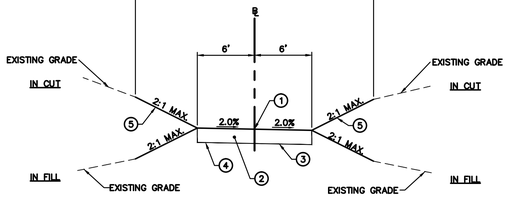


TAR-2							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L4	B 15463261.19 E 15463198.44	B 1750310.43 E 1750479.24	S69°36'38.77"E		180.10'		

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED





TYPICAL SECTION STA. 0+00 TO 1+77.57

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HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS - ROAD DESIGN PLAN
PROPOSED TEMPORARY ACCESS ROAD
TAR-2 @ M.P. 101.54
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/TAR-2	SHEET 90 OF 102
W.O.:			

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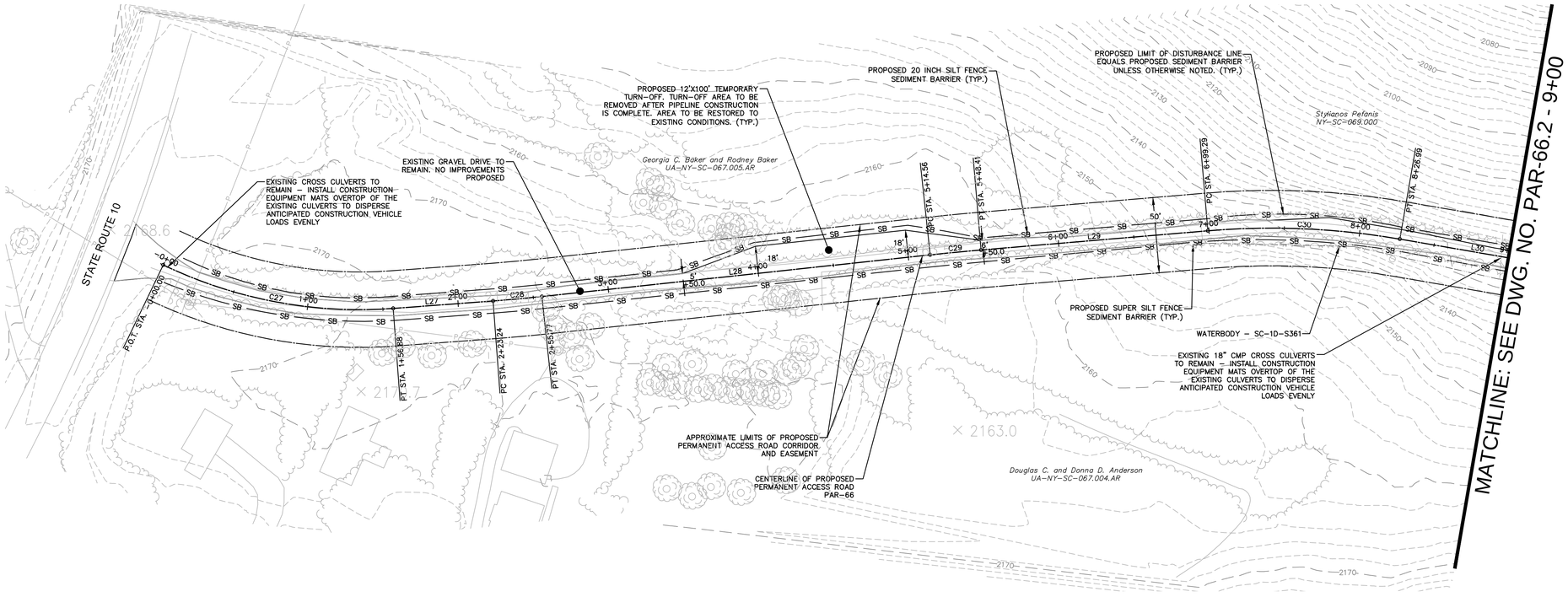

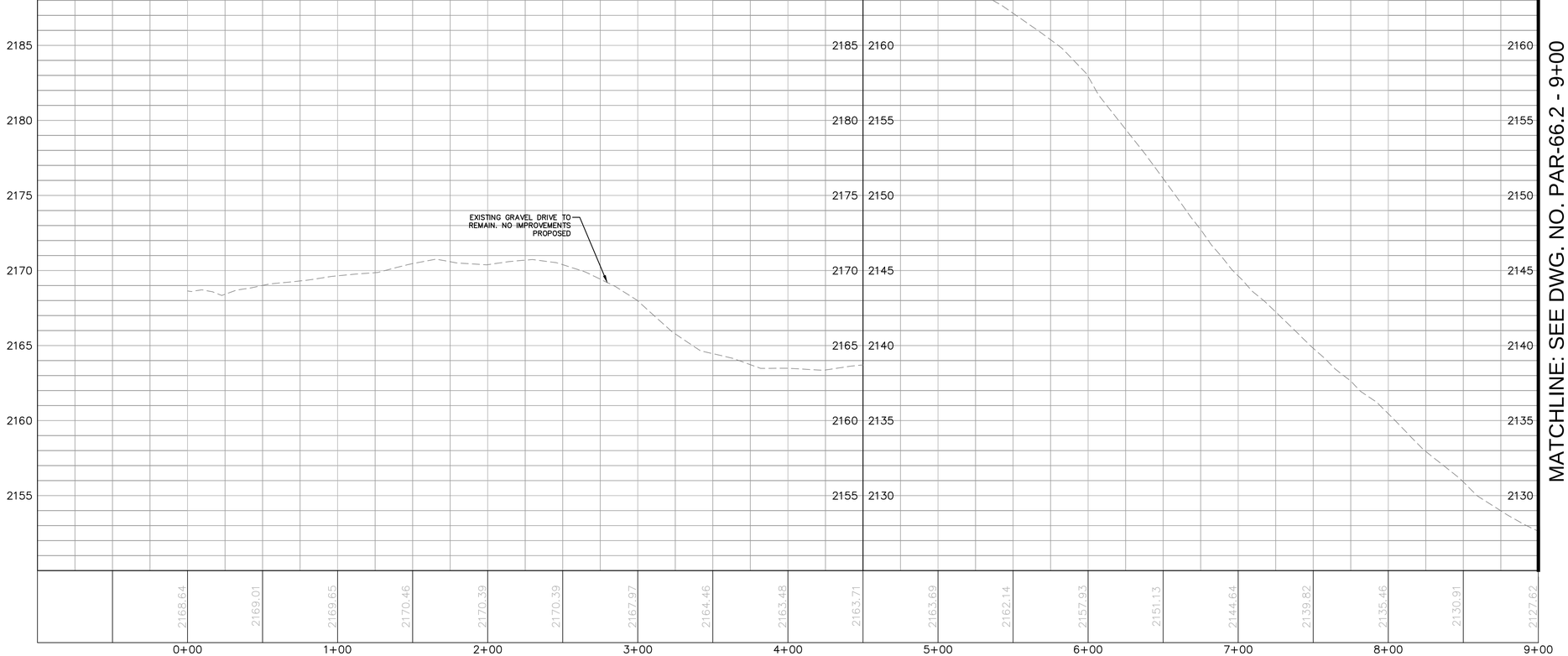

GENERAL NOTES

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PAR-66							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
C27	PC 15470557.65 PI 15470522.84 PT 15470528.81	PC 1753606.16 PI 1753678.50 PT 1753758.56		29°57'41"	156.88'	80.28'	300.0'
L27	B 15470528.81 E 15470533.75	B 1753758.56 E 1753824.73	N85°43'58.26"E		66.36'		
C28	PC 15470533.75 PI 15470534.98 PT 15470536.70	PC 1753824.73 PI 1753840.96 PT 1753857.13		1°51'50"	32.53'	16.27'	1000.0'
L28	B 15470536.70 E 15470564.34	B 1753857.13 E 1754114.44	N83°52'08.13"E		258.79'		
C29	PC 15470564.34 PI 15470566.15 PT 15470567.57	PC 1754114.44 PI 1754131.27 PT 1754148.13		1°17'34"	33.85'	16.92'	1500.0'
L29	B 15470567.57 E 15470580.30	B 1754148.13 E 1754298.47	N85°09'42.60"E		150.88'		
C30	PC 15470580.30 PI 15470585.71 PT 15470574.79	PC 1754298.47 PI 1754362.45 PT 1754425.71		14°38'02"	127.71'	64.20'	500.0'
L30	B 15470574.79 E 15470557.13	B 1754425.71 E 1754528.01	S80°12'15.00"E		103.82'		
C31	PC 15470557.13 PI 15470553.16 PT 15470550.99	PC 1754528.01 PI 1754551.01 PT 1754574.25		4°27'18"	46.65'	23.34'	600.0'
L31	B 15470550.99 E 15470544.89	B 1754574.25 E 1754639.48	S84°39'32.66"E		65.52'		
C32	PC 15470544.89 PI 15470539.78 PT 15470554.33	PC 1754639.48 PI 1754694.10 PT 1754746.99		20°43'27"	108.51'	54.86'	300.0'
L32	B 15470554.33 E 15470576.75	B 1754746.99 E 1754828.46	N74°36'59.93"E		84.49'		
C33	PC 15470576.75 PI 15470613.02 PT 15470573.64	PC 1754828.46 PI 1754960.31 PT 1755091.28		32°07'24"	266.31'	136.76'	475.0'
L33	B 15470573.64 E 15470546.52	B 1755091.28 E 1755181.43	S73°15'36.42"E		94.15'		
C34	PC 15470546.52 PI 15470535.66 PT 15470527.56	PC 1755181.43 PI 1755217.52 PT 1755254.33		4°19'00"	75.34'	37.69'	1000.0'
L34	B 15470527.56 E 15470505.52	B 1755254.33 E 1755354.37	S77°34'36.39"E		102.44'		
C35	PC 15470505.52 PI 15470467.47 PT 15470529.19	PC 1755354.37 PI 1755527.10 PT 1755692.84		32°50'52"	343.98'	176.86'	600.0'
L35	B 15470529.19 E 15470596.56	B 1755692.84 E 1755873.76	N69°34'31.20"E		193.06'		
C36	PC 15470596.56 PI 15470602.66 PT 15470609.33	PC 1755873.76 PI 1755890.14 PT 1755906.30		2°00'11"	34.96'	17.48'	1000.0'
L36	B 15470609.33 E 15470666.70	B 1755906.30 E 1756045.29	N67°34'20.04"E		150.36'		
C37	PC 15470666.70 PI 15470698.88 PT 15470665.49	PC 1756045.29 PI 1756123.27 PT 1756200.75		45°44'40"	159.68'	84.37'	200.0'
L37	B 15470665.49 E 15470654.18	B 1756200.75 E 1756226.98	S66°40'59.72"E		28.56'		
C38	PC 15470654.18 PI 15470632.52 PT 15470618.39	PC 1756226.98 PI 1756277.24 PT 1756330.11		8°20'49"	109.26'	54.73'	750.0'
L38	B 15470618.39 E 15470577.89	B 1756330.11 E 1756481.56	S75°01'49.11"E		156.77'		
C39	PC 15470577.89 PI 15470566.01 PT 15470541.37	PC 1756481.56 PI 1756525.99 PT 1756564.82		17°25'53"	91.27'	45.99'	300.0'
L39	B 15470541.37 E 15470540.00	B 1756564.82 E 1756566.97	S57°35'55.73"E		2.54'		

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-66 @ M.P. 103.51
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-66.1	SHEET 91 OF 102
W/O:			

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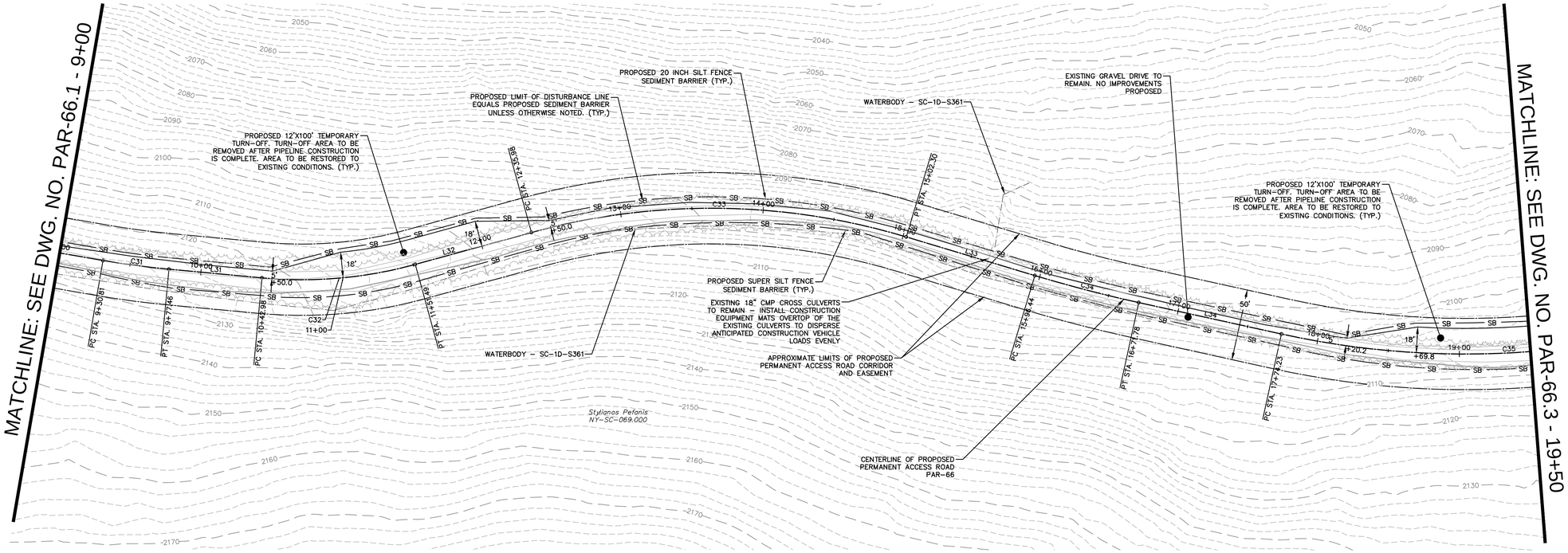

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-66 @ M.P. 103.51
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

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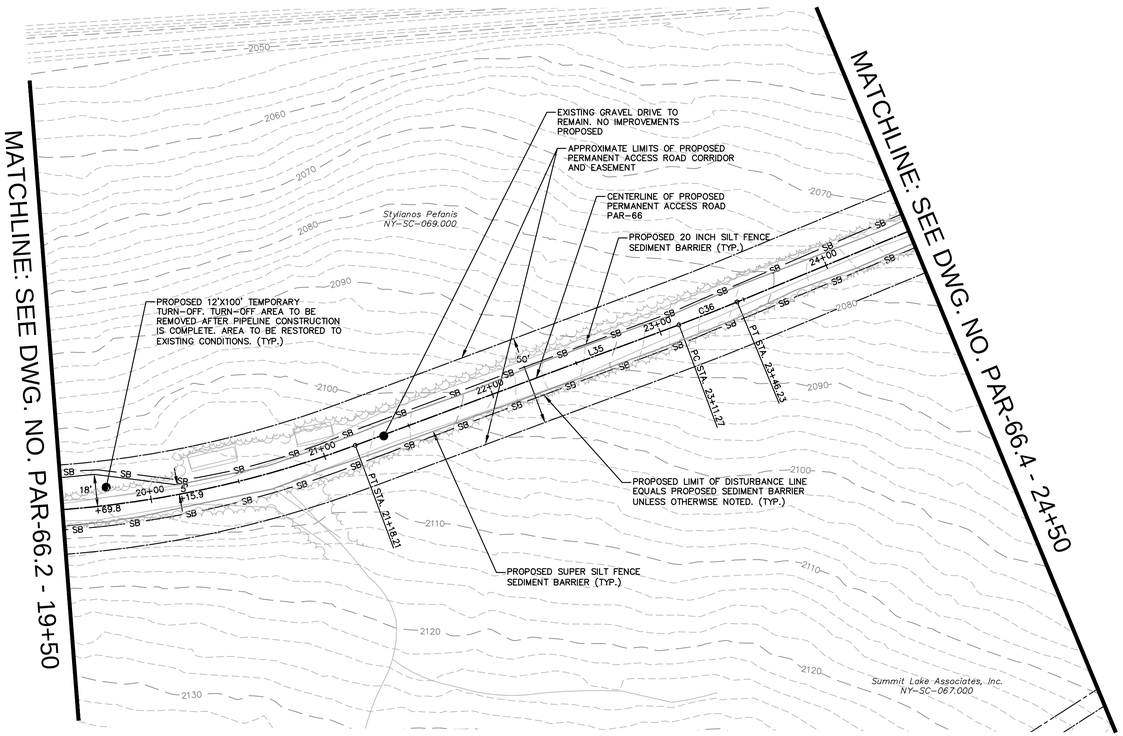
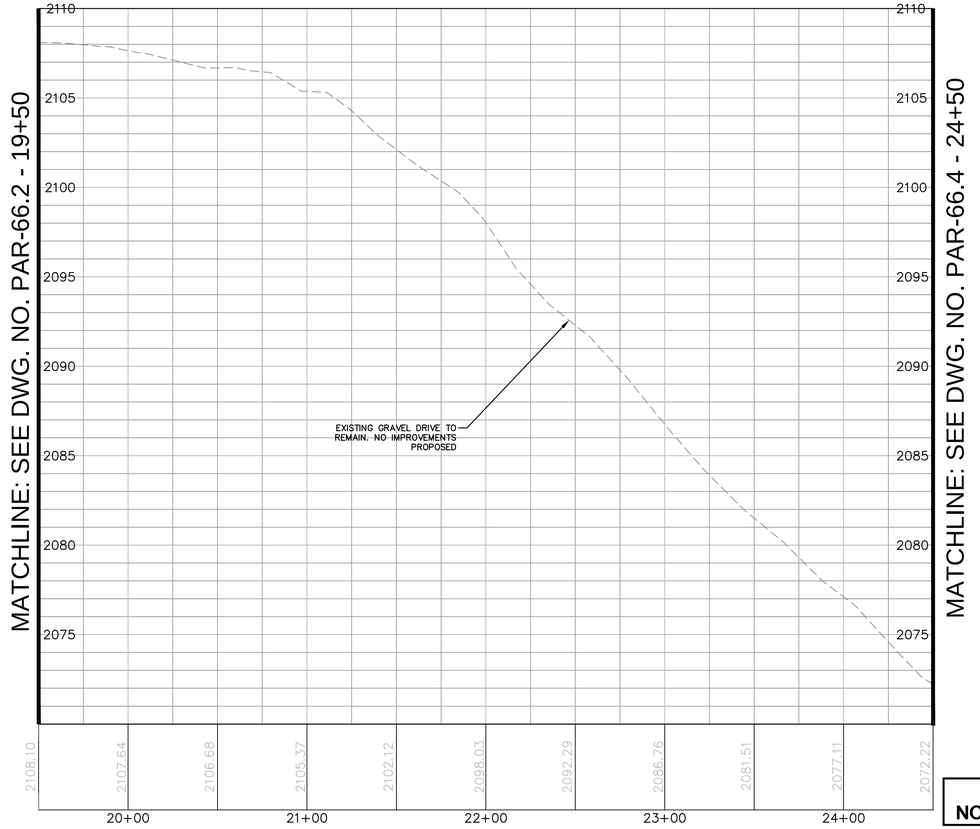
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-66.2	SHEET 92 OF 102
WO:			

DRAWN ON: 1/28/2014
LAST REVISED: 7/21/2014





HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-66 @ M.P. 103.51
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

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APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-66.3	SHEET 93 OF 102
W.O.			

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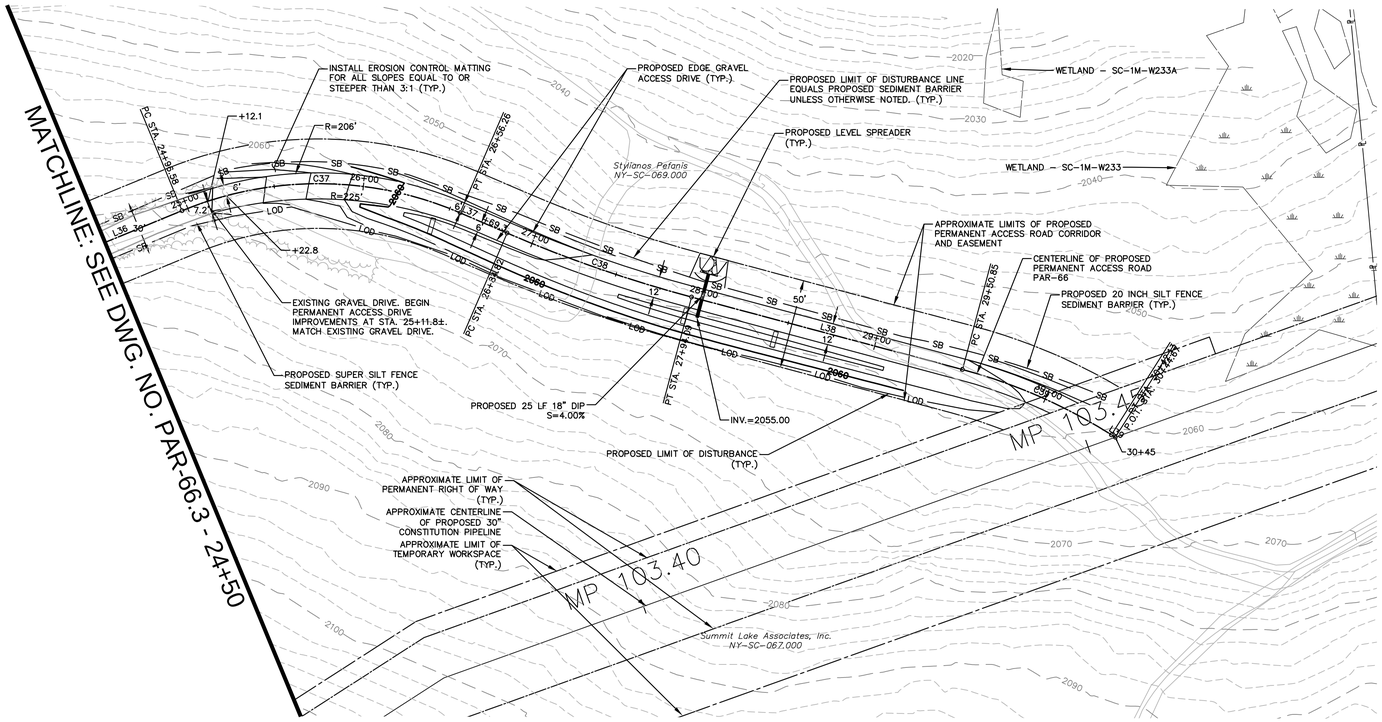
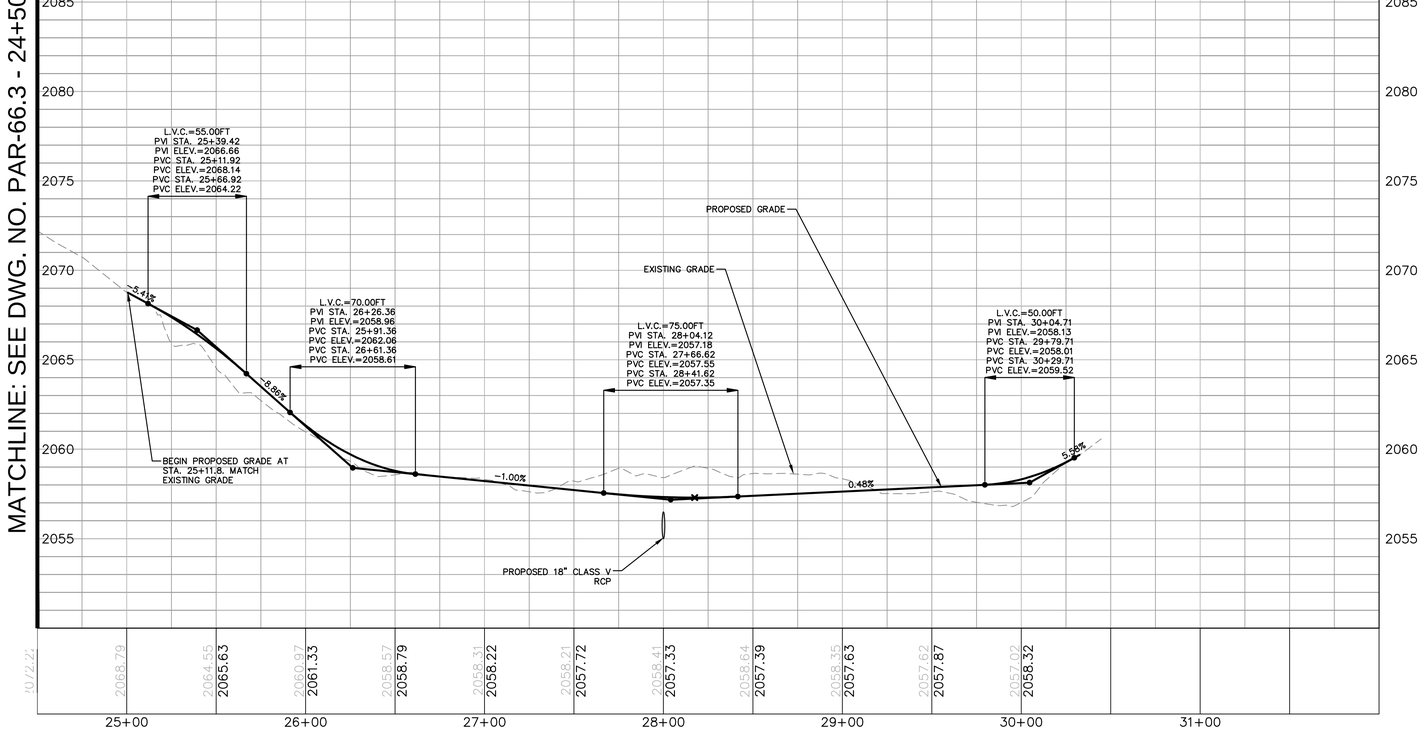
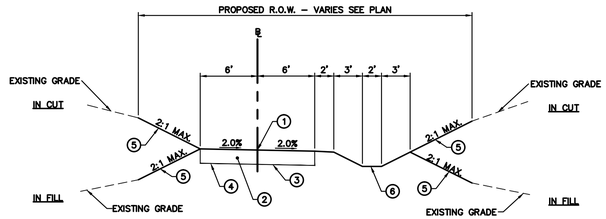
DRAWN IN STATION



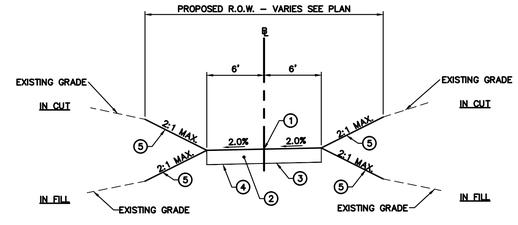


TYPICAL SECTION LEGEND

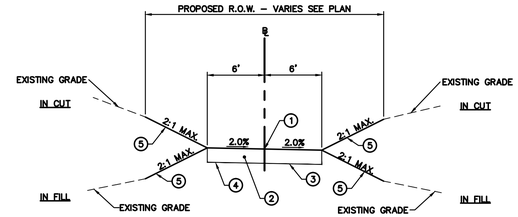
1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)



TYPICAL SECTION STA. 25+00 TO STA. 26+00



TYPICAL SECTION STA. 26+00 TO STA. 31+50



TYPICAL SECTION STA. 31+50 TO STA. 31+81.54

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-66 @ M.P. 103.51
TOWN OF SUMMIT
SHOHARIE COUNTY, NEW YORK

ISSUED FOR BID
NOT FOR CONSTRUCTION

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

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W.O.:
SCALE: AS NOTED
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SHEET 94 OF 102

DRAWN BY 10/29/2013
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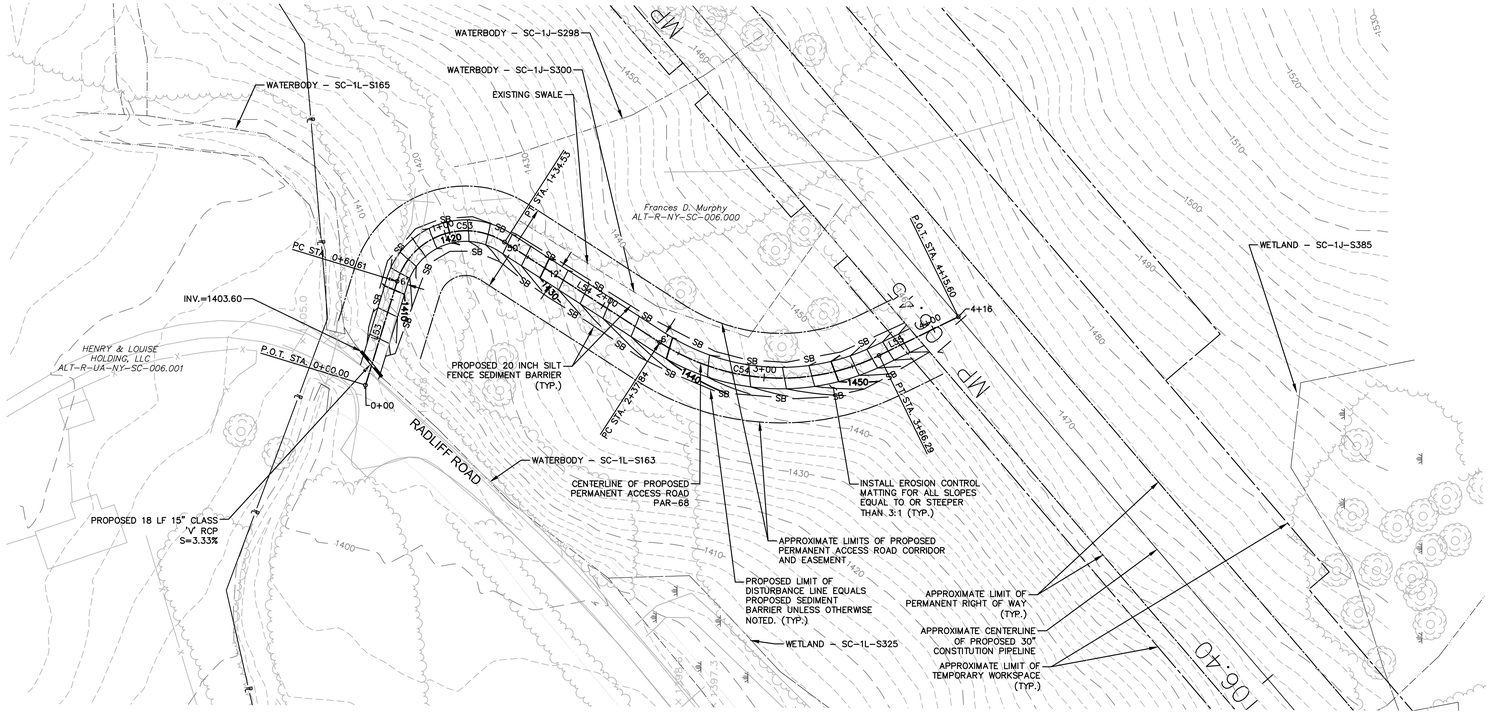
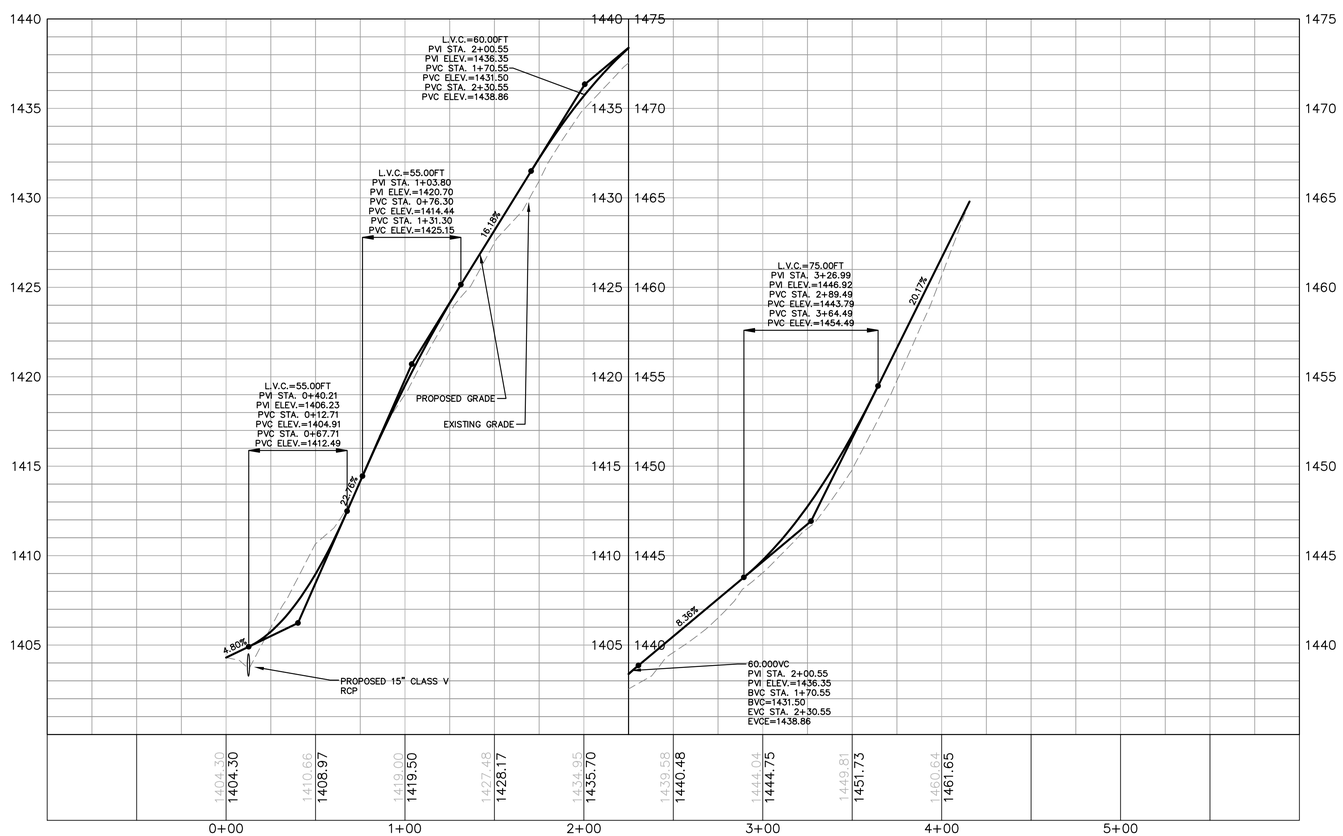




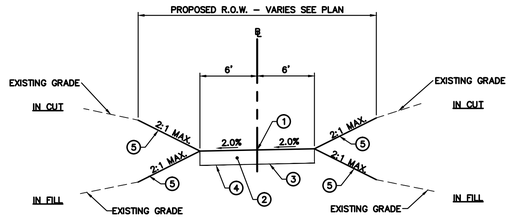
GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1–800–962–7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

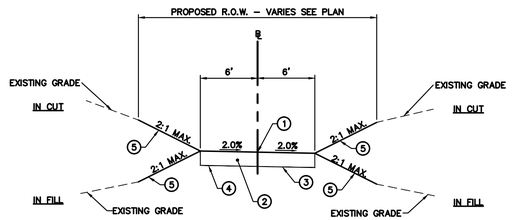
PAR–68							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L53	B 15480491.42 E 15480473.74	B 1767669.31 E 1767727.28	S73°01'58.84"E		60.61'		
C53	PC 15480473.74 PI 15480458.28 PT 15480413.78	PC 1767727.28 PI 1767777.95 PT 1767749.21		105°53'12"	73.92'	52.97'	40.0'
L54	B 15480413.78 E 15480326.99	B 1767749.21 E 1767693.17	S32°51'13.16"W		103.31'		
C54	PC 15480326.99 PI 15480267.73 PT 15480204.34	PC 1767693.17 PI 1767654.90 PT 1767685.85		58°52'32"	128.45'	70.54'	125.0'
L55	B 15480204.34 E 15480160.03	B 1767685.85 E 1767707.48	S26°01'18.73"E		49.31'		

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED



TYPICAL SECTION STA. 0+00 TO STA. 1+00



TYPICAL SECTION STA. 1+00 TO STA. 4+15.60

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR–68 @ M.P. 106.50
TOWN OF RICHMONDVILLE
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

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CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26–26–85/PAR–68	SHEET 95 OF 102
WO:			

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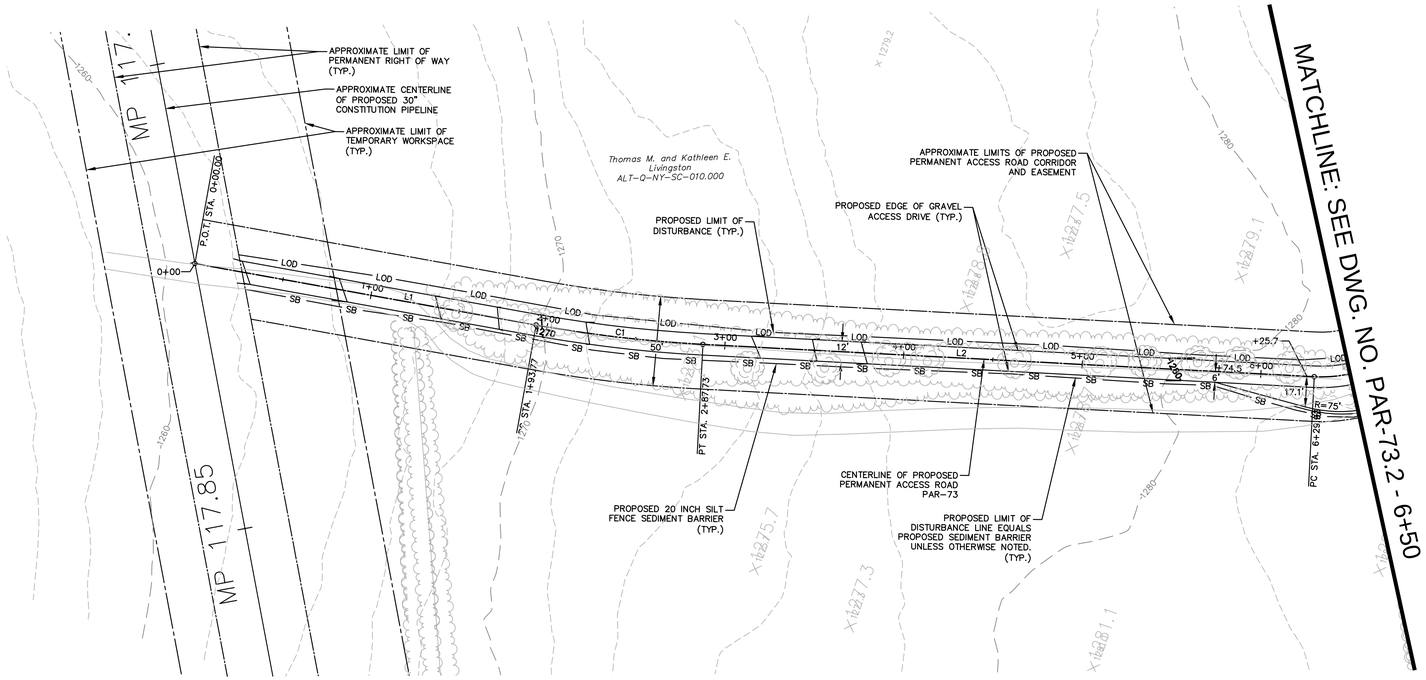

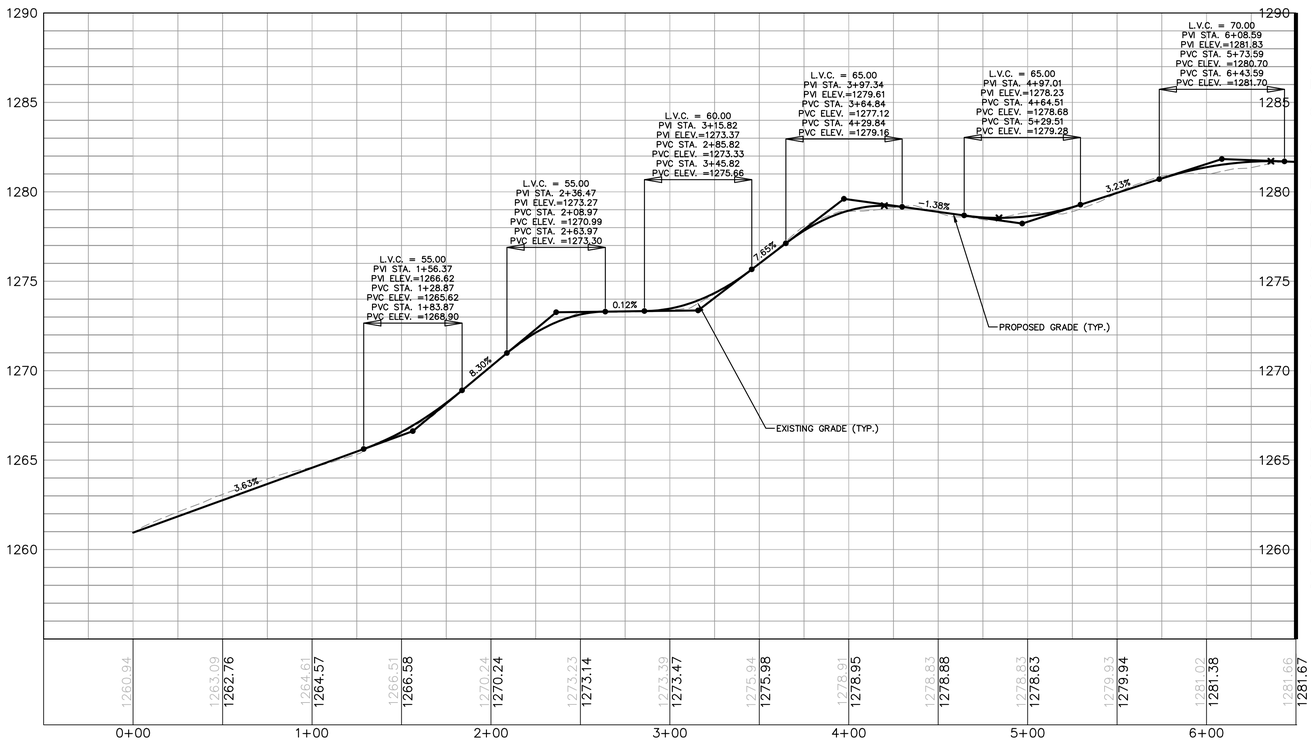

MATCHLINE: SEE DWG. NO. PAR-73.2 - 6+50

GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
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7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

PAR-73							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15506805.38 E 15506614.10	B 1815707.29 E 1815738.28	S9°12'06.45"E		193.77'		
C1	PC 15506614.10 PI 15506567.66 PT 15506522.53	PC 1815738.28 PI 1815745.80 PT 1815759.07		7°10'42"	93.96'	47.04'	750.0'
L2	B 15506522.53 E 15506194.22	B 1815759.07 E 1815855.57	S16°22'48.31"E		342.19'		
C2	PC 15506194.22 PI 15506146.20 PT 15506140.81	PC 1815855.57 PI 1815869.69 PT 1815919.46		67°26'40"	88.28'	50.06'	75.0'
L3	B 15506140.81 E 15506132.34	B 1815919.46 E 1815997.74	S83°49'28.17"E		78.74'		
C3	PC 15506132.34 PI 15506125.48 PT 15506065.04	PC 1815997.74 PI 1816061.19 PT 1816081.68		65°05'22"	113.60'	63.82'	100.0'
L4	B 15506065.04 E 15505679.15	B 1816081.68 E 1816212.56	S18°44'05.79"E		407.48'		
C4	PC 15505679.15 PI 15505650.88 PT 15505621.67	PC 1816212.56 PI 1816222.15 PT 1816228.31		6°50'02"	59.64'	29.85'	500.0'
L5	B 15505621.67 E 15505509.93	B 1816228.31 E 1816251.86	S11°54'04.19"E		114.19'		
C5	PC 15505509.93 PI 15505450.42 PT 15505393.95	PC 1816251.86 PI 1816264.40 PT 1816287.02		9°55'57"	121.35'	60.83'	700.0'
L6	B 15505393.95 E 15505286.32	B 1816287.02 E 1816330.15	S21°50'00.91"E		115.95'		
C6	PC 15505286.32 PI 15505238.99 PT 15505192.05	PC 1816330.15 PI 1816349.11 PT 1816369.03		1°10'07"	101.97'	50.99'	5000.0'
L7	B 15505192.05 E 15505001.18	B 1816369.03 E 1816450.06	S23°00'07.55"E		207.36'		
C7	PC 15505001.18 PI 15504979.59 PT 15504957.24	PC 1816450.06 PI 1816459.23 PT 1816466.33		5°22'15"	46.87'	23.45'	500.0'
L8	B 15504957.24 E 15504936.29	B 1816466.33 E 1816472.99	S17°37'52.79"E		21.99'		

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-73 @ M.P. 117.96
TOWN OF COBLESKILL
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

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CHECKED BY:
APPROVED BY:
W.O.:
DATE: 10/29/2013
DATE:
DATE:
ISSUED FOR BID:
ISSUED FOR CONSTRUCTION:
SCALE: AS NOTED
DRAWING NUMBER: 26-26-85/PAR-73.1
SHEET 96 OF 102

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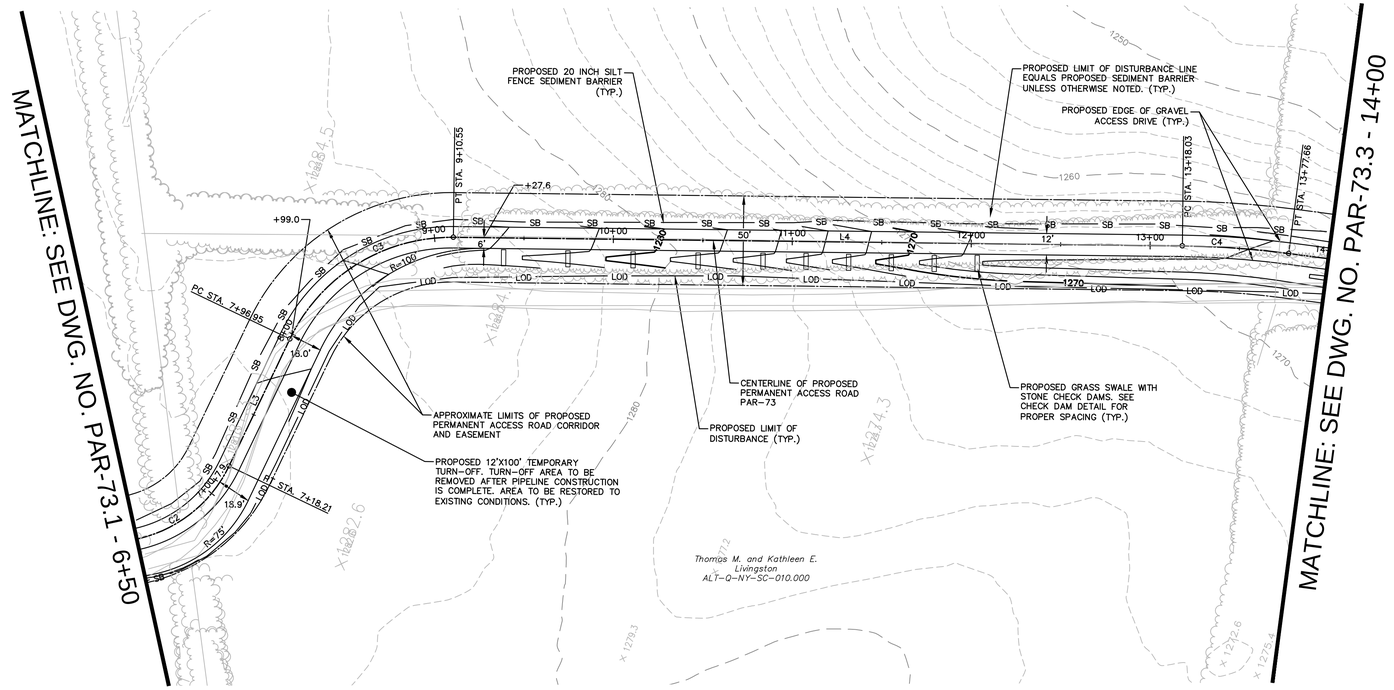
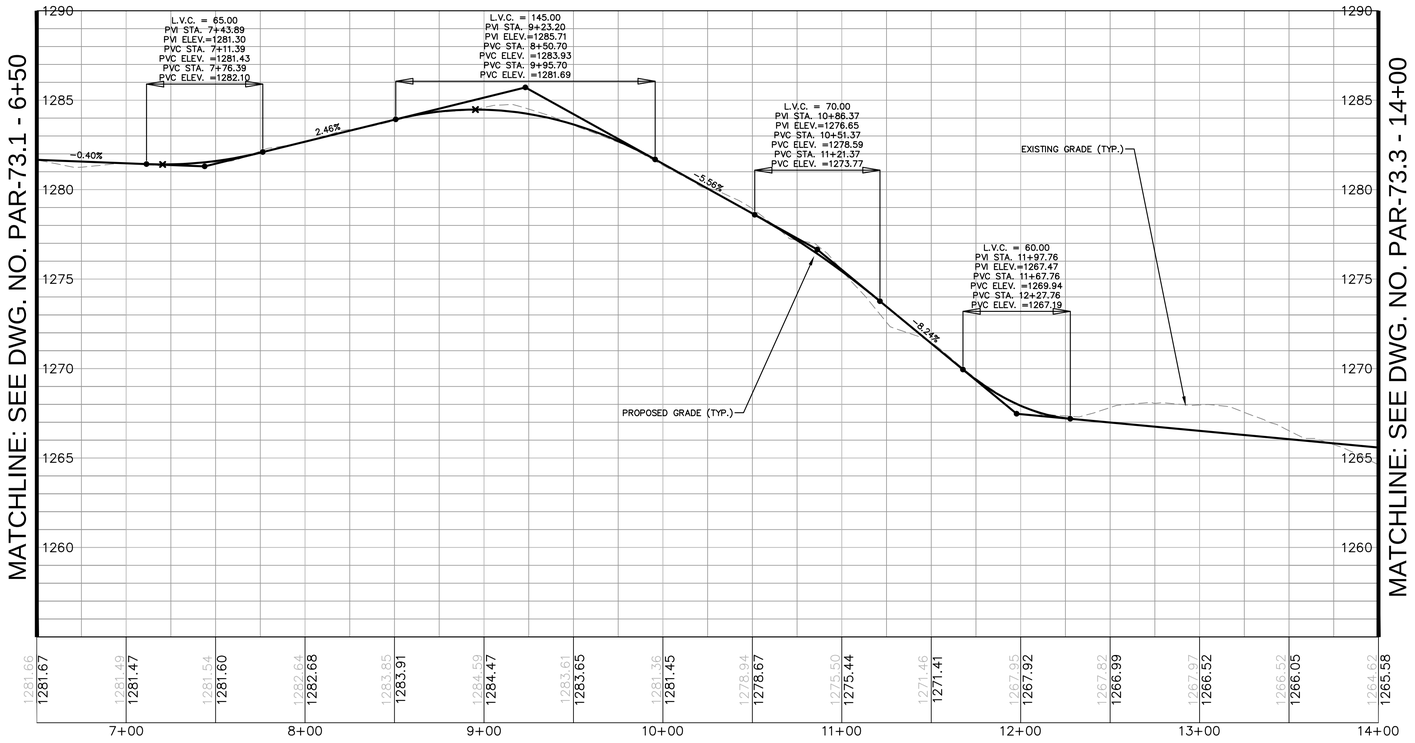
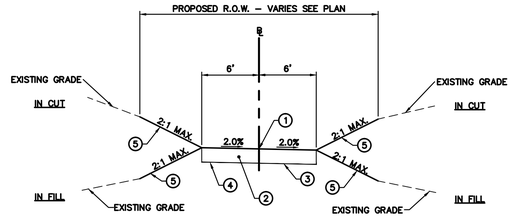


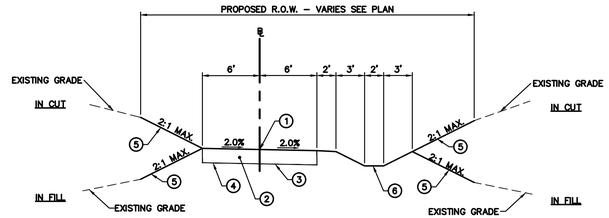


TYPICAL SECTION LEGEND

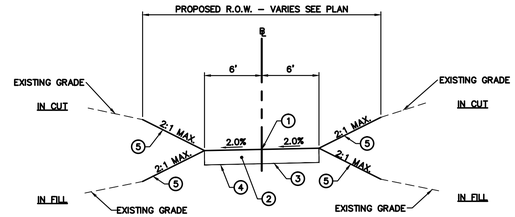
1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED
6. GRASS LINED SWALE (SEE ACCESS ROAD CALCULATIONS FOR EROSION CONTROL MATTING TYPE)



TYPICAL SECTION STA. 0+00 TO 9+00



TYPICAL SECTION STA. 9+00 TO 18+20



TYPICAL SECTION STA. 18+20 TO 20+97.23

HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
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ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-73 @ M.P. 117.96
TOWN OF COBLESKILL
SHOHARIE COUNTY, NEW YORK

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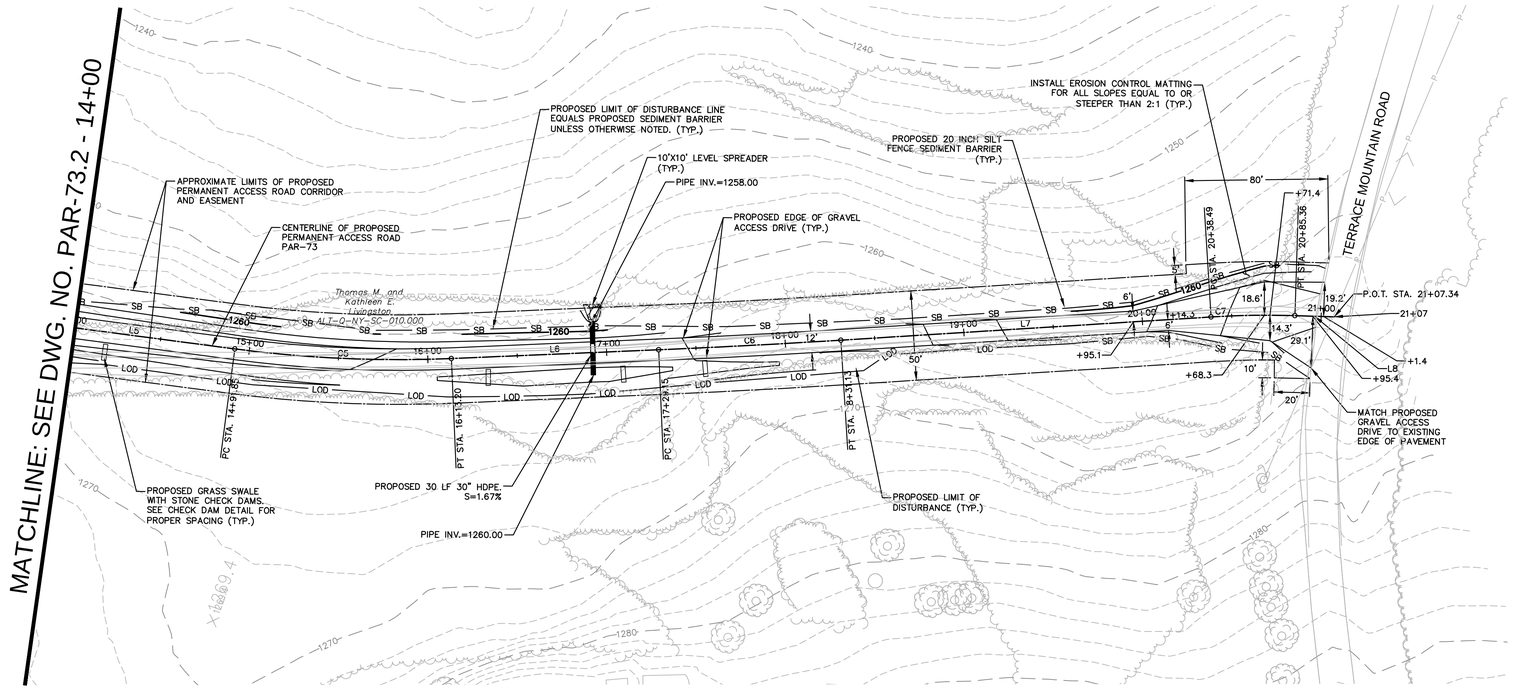
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-73.2	SHEET 97 OF 102
WO:			



HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

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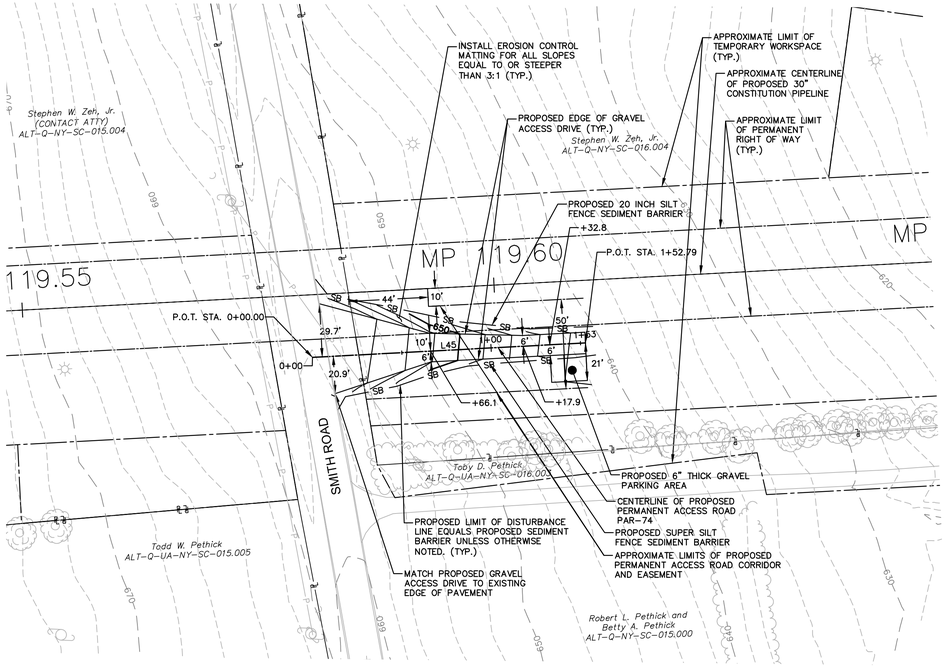
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-73.3	SHEET 98 OF 102
WO:			



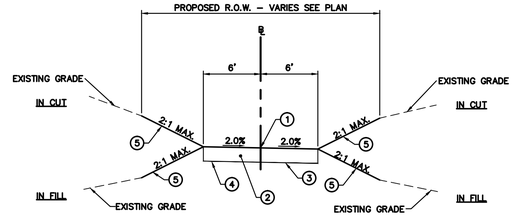
GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
3. PROPOSED TRUCK PULL OFF ARE TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION. THE PULL OFF AREA SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL. ALL PROPOSED PERMANENT SWALES AND ASSOCIATED CHECK DAMS SHALL BE REMOVED AND REINSTALLED ALONG THE PROPOSED EDGE OF ROAD.
4. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CONSTITUTION AND/OR ITS ENGINEER OF ANY CONDITIONS THAT VARY FROM WHAT IS DEPICTED ON THIS PLAN.
5. THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY NEW YORK (1-800-962-7962) A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

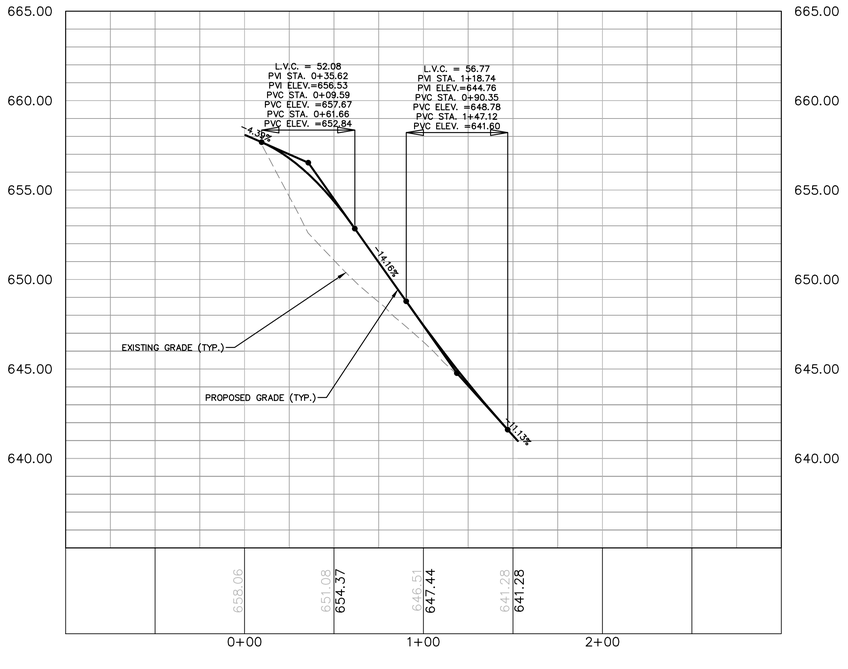
PAR-74							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L45	B 15511109.78 E 15511215.98	B 1823300.07 E 1823409.91	N45°57'56.40"E		152.79'		

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
2. 12" LAYER CRUSHER RUN GRAVEL
3. FILTER FABRIC
4. UNDISTURBED GROUND IN CUTS/SUBBASE IN FILLS
5. EROSION CONTROL BLANKET, TOPSOIL AND SEED



TYPICAL SECTION STA. 0+00 TO 1+52.79



HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

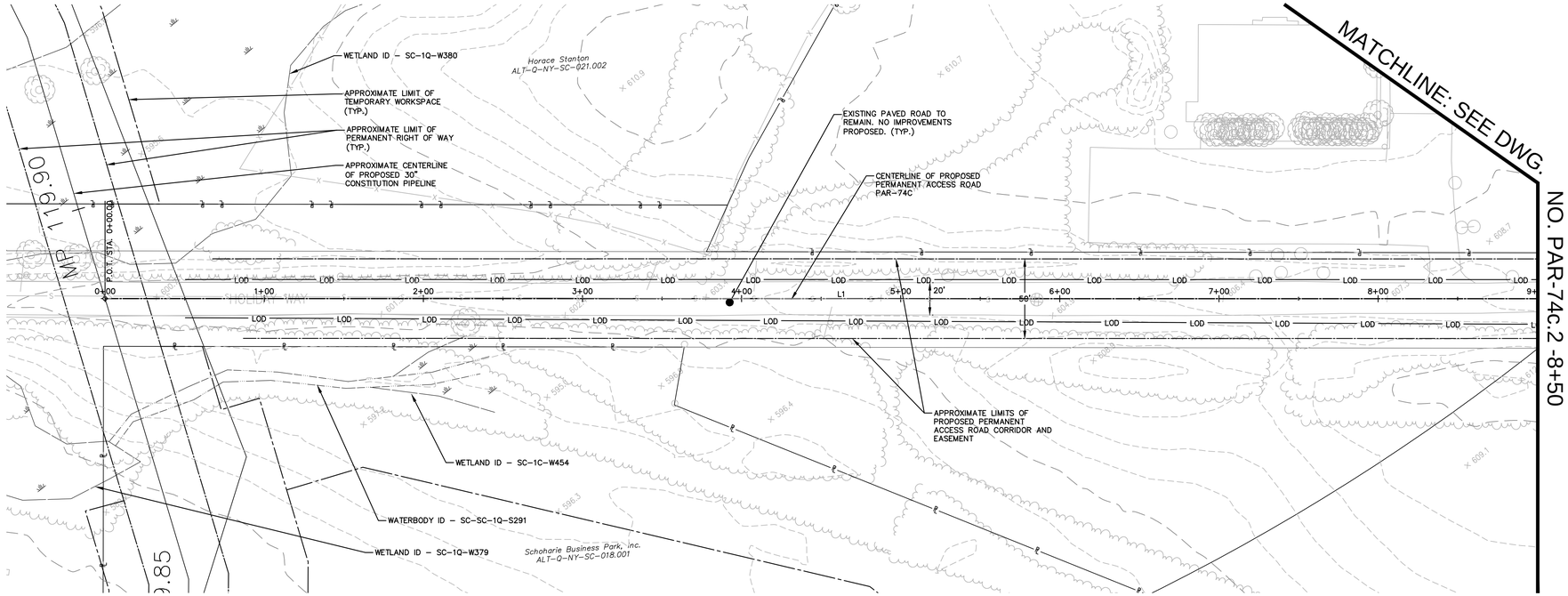
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-74 @ M.P. 119.69
TOWN OF COBLESKILL
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-74	SHEET 99 OF 102
W.O.			

8/26/13 AM - S:\26-85\PAR-74\...



GENERAL NOTES

1. CHECK DAMS SHALL BE INSTALLED WITHIN ALL SWALES IN ACCORDANCE WITH THE CHECK DAM BEST MANAGEMENT PRACTICE DETAIL.
2. REFER TO THE ACCESS ROAD GENERAL NOTES FOR SPECIFIC INSTALLATION AND MAINTENANCE SPECIFICATIONS, ACCESS ROAD LEGEND AND MISCELLANEOUS GENERAL NOTES.
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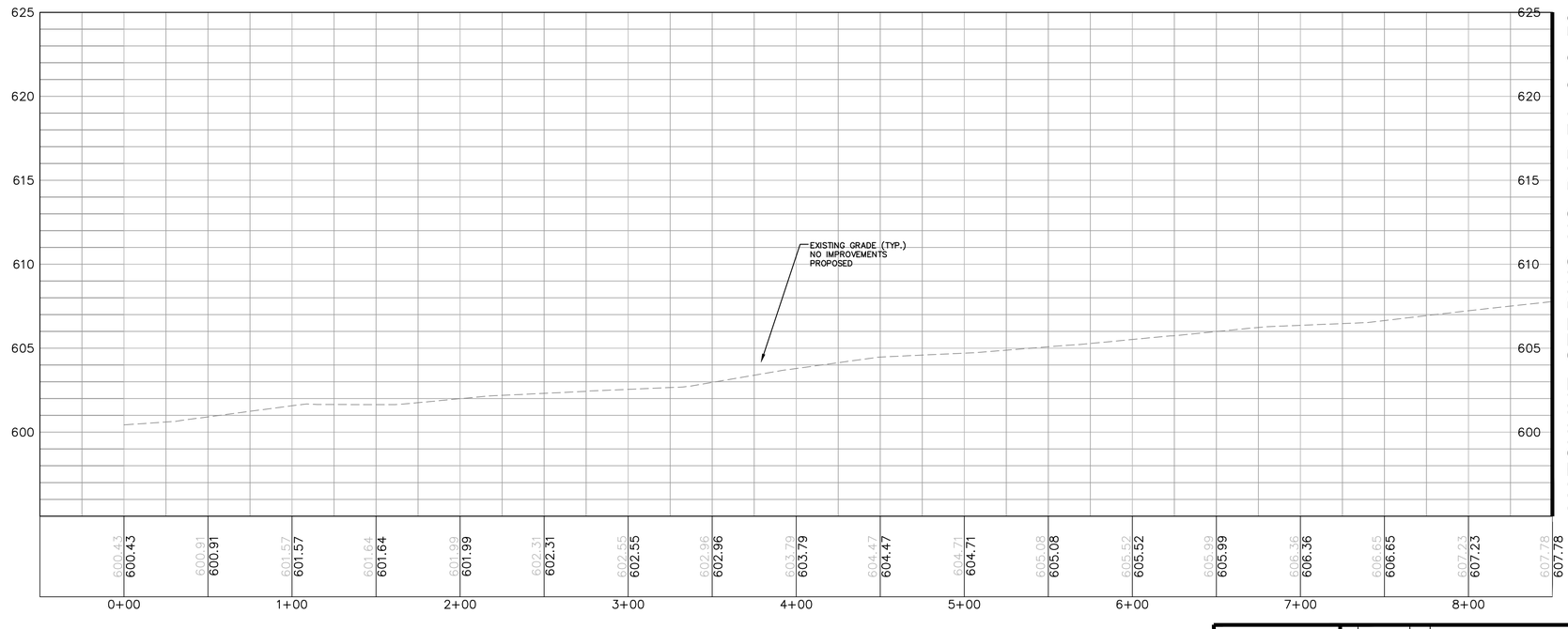
6. ALL SLOPES THAT ARE EQUAL TO OR STEEPER THAN 1(V):3(H) SHALL BE SEEDED AND THEN COVERED WITH EROSION CONTROL MATTING. THE MATTING SHALL BE OR APPROVED EQUAL AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
7. ALL SLOPES THAT ARE STEEPER THAN 1(V):2(H) SHALL BE COVERED WITH RIPRAP SLOPE PROTECTION. SEE SLOPE PROTECTION DETAIL FOR INSTALLATION GUIDELINES.

PAR-74c							
No.	Northing	Easting	Bearing	Delta(Δ)	Length	Tangent	Radius
L1	B 15512184.21 E 15511597.33	B 1824484.66 E 1825199.56	S50°36'59.15"E		924.93'		
C1	PC 15511597.33 PI 15511565.68 PT 15511604.16	PC 1825199.56 PI 1825238.11 PT 1825269.85		89°51'43"	78.42'	49.88'	50.0'
L2	B 15511604.16 E 15511696.74	B 1825269.85 E 1825346.23	N39°31'17.70"E		120.03'		
C2	PC 15511696.74 PI 15511736.17 PT 15511776.32	PC 1825346.23 PI 1825378.76 PT 1825410.38		1°18'05"	102.21'	51.11'	4500.0'
L3	B 15511776.32 E 15511866.81	B 1825410.38 E 1825481.64	N38°13'12.52"E		115.17'		
C3	PC 15511866.81 PI 15511887.88 PT 15511908.70	PC 1825481.64 PI 1825498.23 PT 1825515.15		0°52'42"	53.65'	26.83'	3500.0'
L4	B 15511908.70 E 15512000.36	B 1825515.15 E 1825589.63	N39°05'54.23"E		118.11'		
C4	PC 15512000.36 PI 15512037.41 PT 15512079.50	PC 1825589.63 PI 1825619.75 PT 1825642.30		10°54'36"	95.21'	47.75'	500.0'
L5	B 15512079.50 E 15512260.81	B 1825642.30 E 1825739.47	N28°11'18.16"E		205.70'		



HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

ISSUED FOR BID
NOT FOR CONSTRUCTION

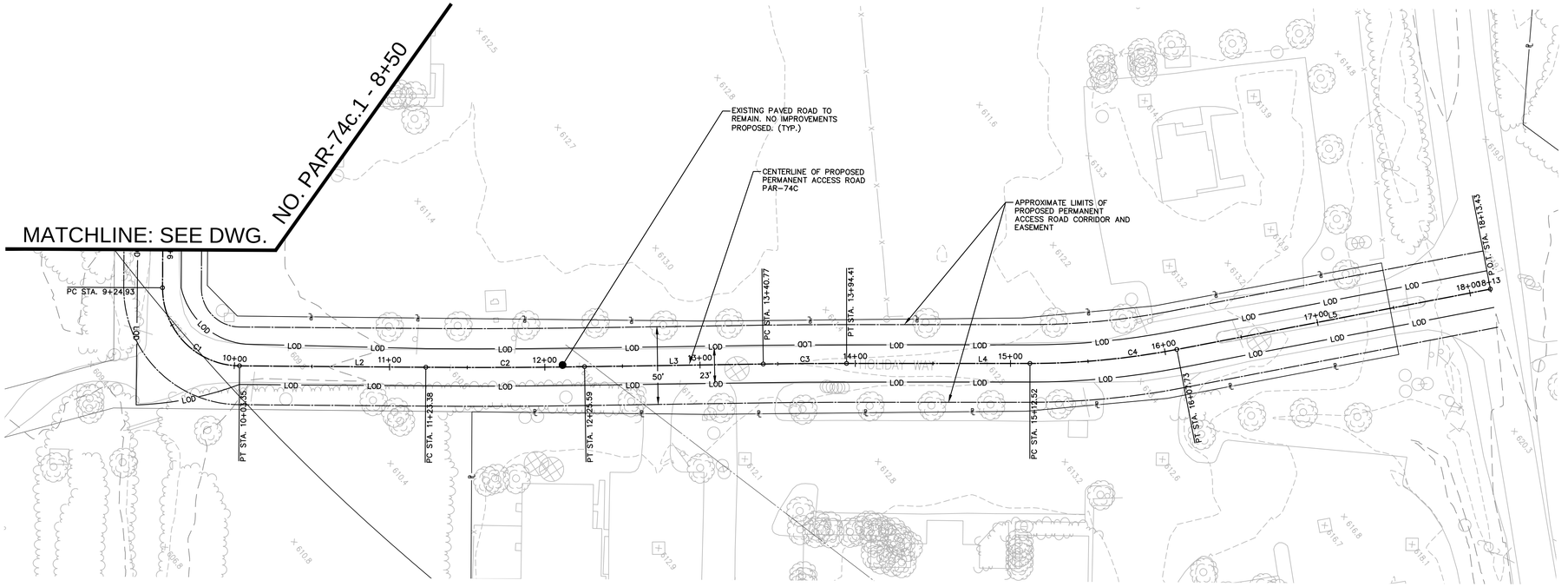
CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-74C @ M.P. 119.69
TOWN OF COBLESKILL
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

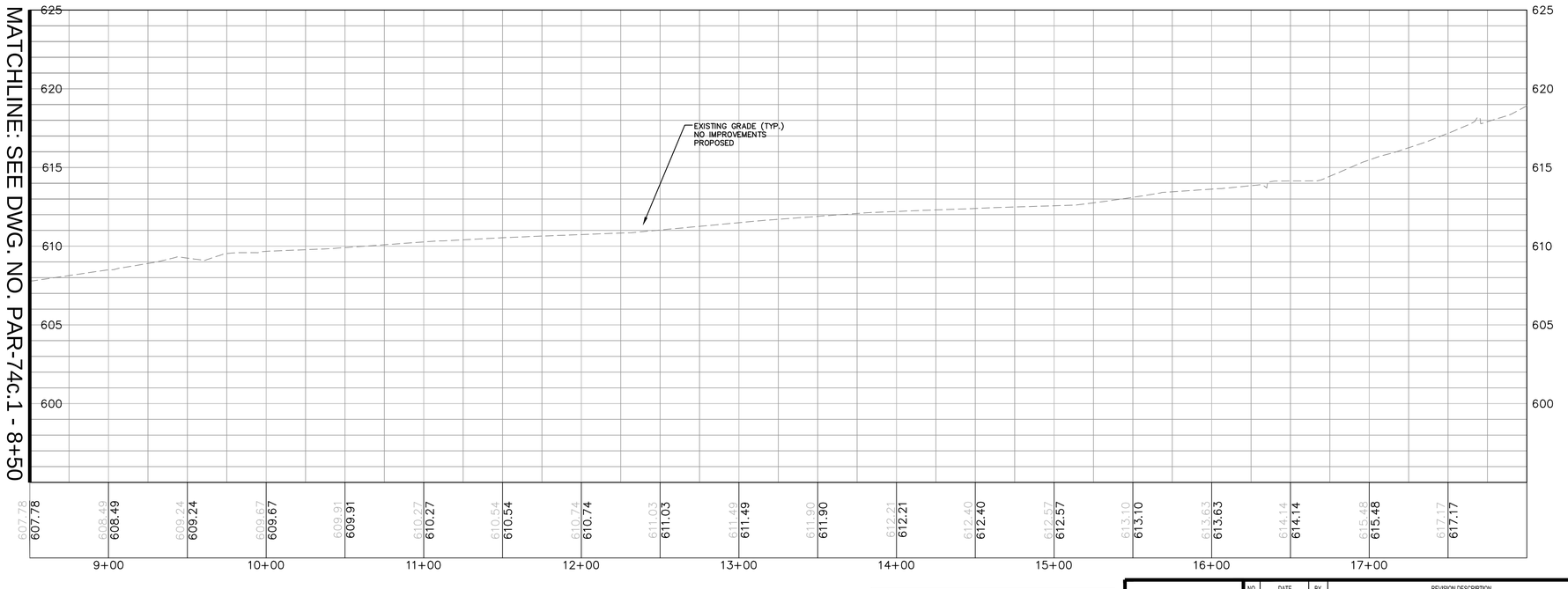
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-74C.1	SHEET 100 OF 102
W/O:			

MATCHLINE: SEE DWG. NO. PAR-74c.1 - 8+50



MATCHLINE: SEE DWG. NO. PAR-74c.1 - 8+50



HORIZONTAL SCALE 1"=40'
GRAPHIC SCALE
40 20 0 40
SCALE IN FEET

VERTICAL SCALE 1"=4'
GRAPHIC SCALE
4 2 0 4
SCALE IN FEET

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ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING
BL Companies

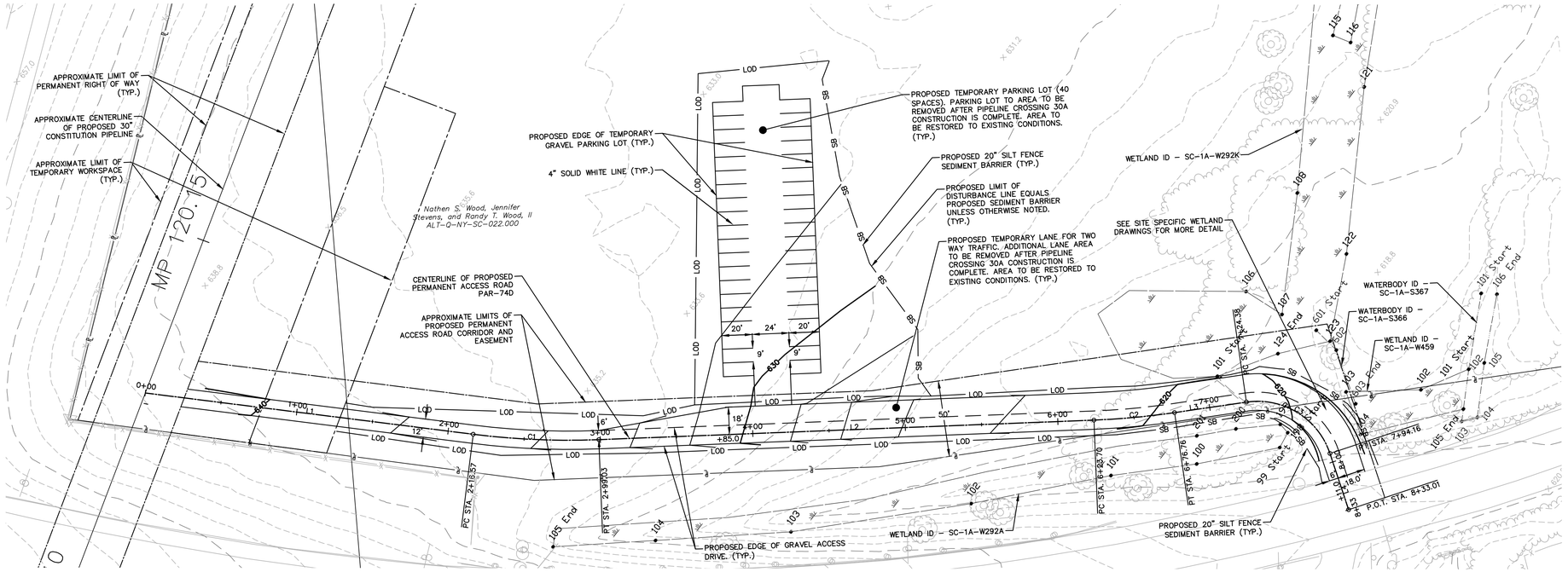
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-73C @ M.P. 119.69
TOWN OF COBLESKILL
SHOHARIE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-74C.2	SHEET 101 OF 102
W/O:			

PLOTTED: 7/24/2014 - 10:51 AM BY: CHRISTOPHER.BARNES



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8. PROPOSED PARKING AREA AND ADDITIONAL ACCESS ROAD WIDTH IS TEMPORARY AND SHALL BE REMOVED AFTER CONSTRUCTION OF ROUTE 30A CROSSING. THE PARKING AND ADDITIONAL ACCESS ROAD AREAS SHALL BE REGRADED TO MATCH PRE CONSTRUCTION CONTOURS WHERE PRACTICAL.

TYPICAL SECTION LEGEND

1. CENTERLINE OF ACCESS ROAD
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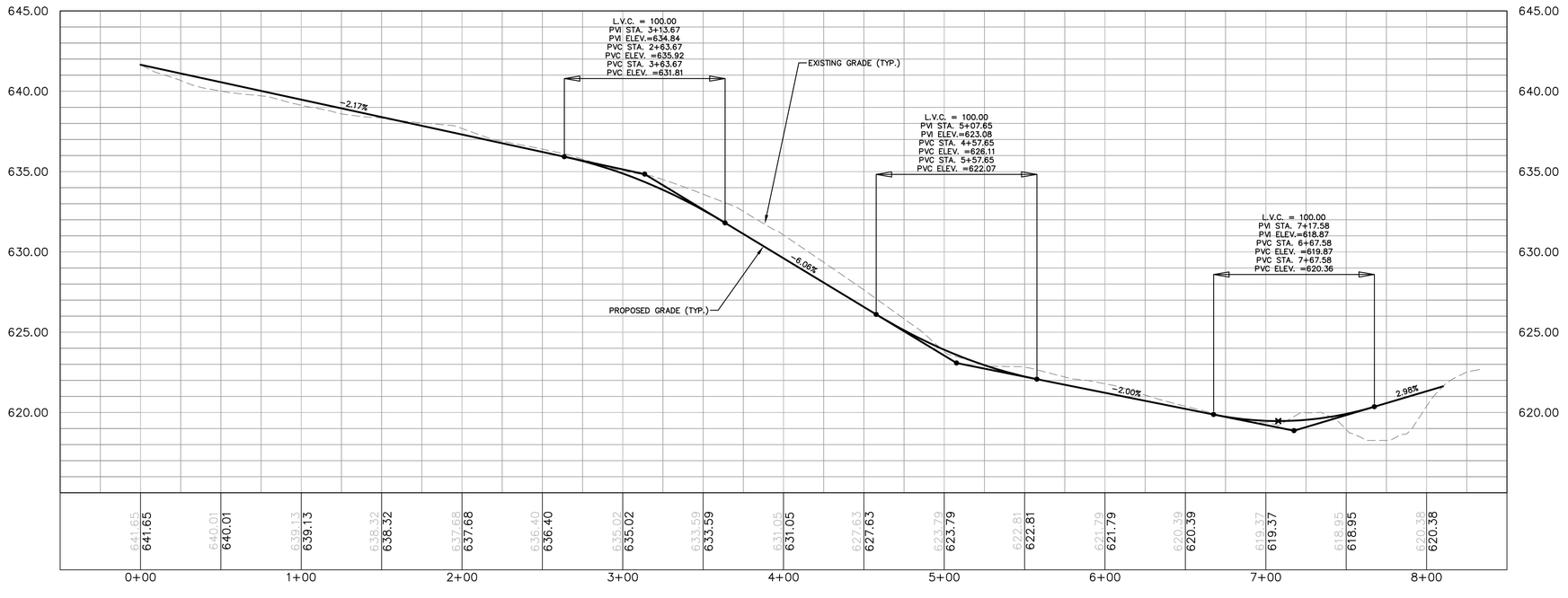

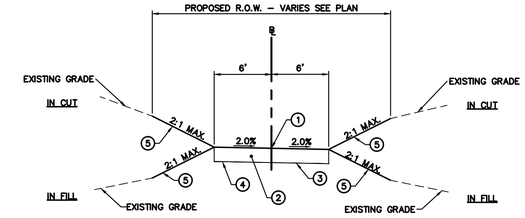

TYPICAL SECTION STA. 0+00 TO 8+11

PAR-74c							
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SCALE IN FEET

VERTICAL SCALE 1"=4'
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SCALE IN FEET

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CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
ACCESS ROADS – ROAD DESIGN PLAN
PROPOSED PERMANENT ACCESS ROAD
PAR-74D @ M.P. 120.32
TOWN OF COBLESKILL
SHOHARIE COUNTY, NEW YORK

ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING
BL Companies

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1.	07/21/14		ISSUED FOR BID			

DRAWN BY:	DATE: 10/29/2013	ISSUED FOR BID:	SCALE: AS NOTED
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-26-85/PAR-74D	SHEET 102 OF 102
W/O:			

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