ATTACHMENT C

FERC ALIGNMENT SHEETS

Updated August 2014

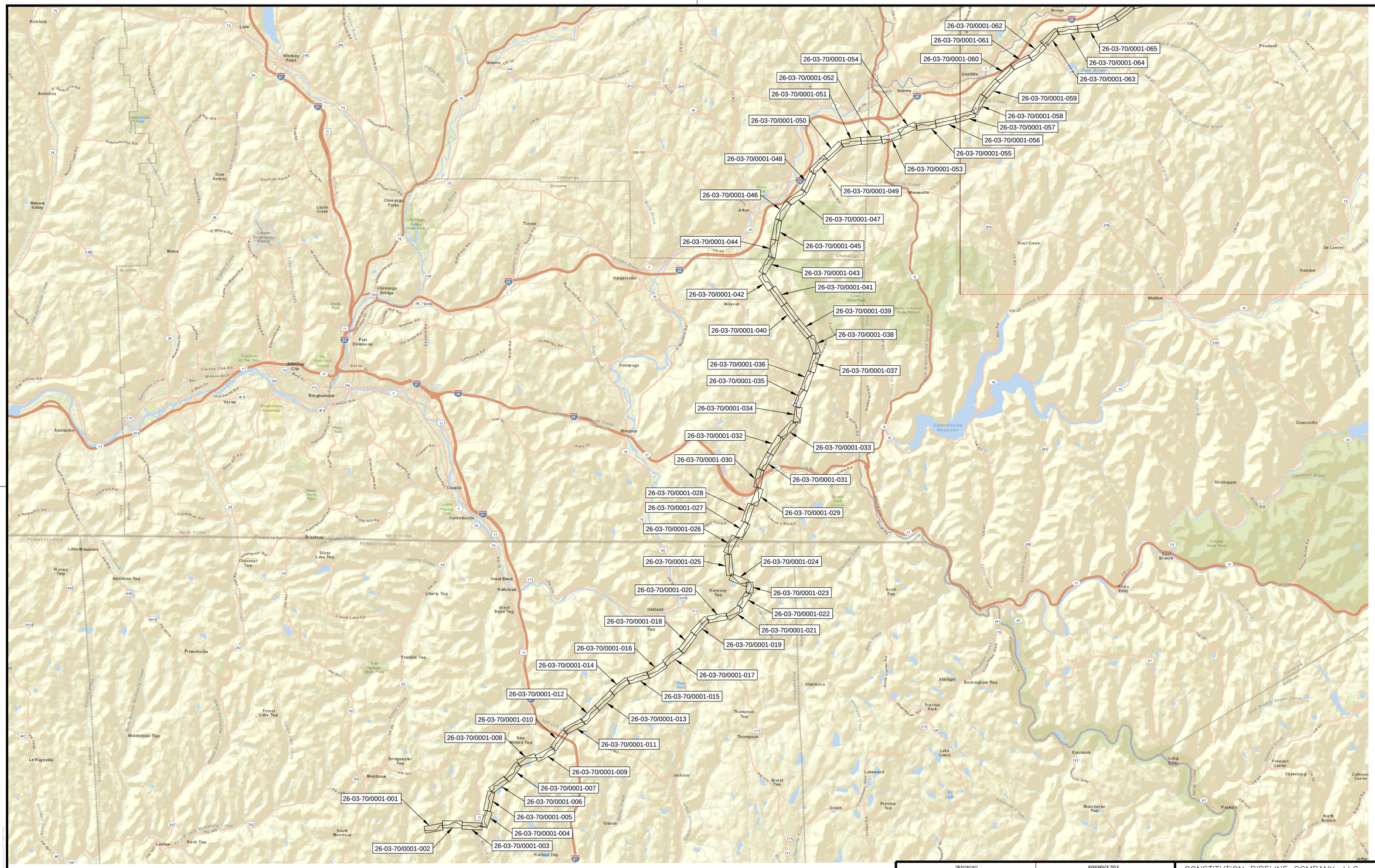
DWG. No.	BEG. Sta.	END Sta.
KEY MAP		
26-03-70/0001-KEYMAP	0+00	3382+00
26-03-70/0001-KEYMAP	3382+00	6571+38
LEGEND		
1574 - LEGEND	0+00	6571+38
ALIGNMENT SHEETS		
26-03-70/0001-001	0+00	54+00
26-03-70/0001-002	54+00	108+00
26-03-70/0001-003	108+00	162+00
26-03-70/0001-004	162+00	217+00
26-03-70/0001-005	217+00	269+00
26-03-70/0001-006	269+00	323+00
26-03-70/0001-007	323+00	375+00
26-03-70/0001-008	375+00	425+00
26-03-70/0001-009	425+00	477+00
26-03-70/0001-010	477+00	531+00
26-03-70/0001-011	531+00	585+00
26-03-70/0001-012	585+00	639+00
26-03-70/0001-013	639+00	693+00
26-03-70/0001-014	693+00	747+00
26-03-70/0001-015	747+00	801+00
26-03-70/0001-016	801+00	855+00
26-03-70/0001-017	855+00	909+00
26-03-70/0001-018	909+00	963+00
26-03-70/0001-019	963+00	1015+00
26-03-70/0001-020	1015+00	1066+00
26-03-70/0001-021	1066+00	1113+00
26-03-70/0001-022	1113+00	1158+00
26-03-70/0001-023	1158+00	1192+00
26-03-70/0001-024	1192+00	1244+00
26-03-70/0001-025	1244+00	1299+00
26-03-70/0001-026	1299+00	1354+00
26-03-70/0001-026	1299+00	1354+00
26-03-70/0001-027	1354+00	1409+00
26-03-70/0001-028	1409+00	1462+72
26-03-70/0001-029	1462+72	1515+52
26-03-70/0001-030	1515+52	1569+52
26-03-70/0001-031	1569+52	1619+52
26-03-70/0001-032	1619+52	1671+52
26-03-70/0001-033	1671+52	1726+00
26-03-70/0001-034	1726+00	1779+00
26-03-70/0001-035	1779+00	1829+00
26-03-70/0001-036	1829+00	1881+00
26-03-70/0001-037	1881+00	1931+00
26-03-70/0001-038	1931+00	1981+16
26-03-70/0001-039	1981+16	2033+16
26-03-70/0001-040	2033+16	2085+16
26-03-70/0001-041	2085+16	2138+00
26-03-70/0001-042	2138+00	2188+00
26-03-70/0001-043	2188+00	2240+00
26-03-70/0001-044	2240+00	2290+00
26-03-70/0001-045	2290+00	2342+00
26-03-70/0001-046	2342+00	2394+00
26-03-70/0001-047	2394+00	2446+00
26-03-70/0001-048	2446+00	2498+00
26-03-70/0001-049	2498+00	2553+00
26-03-70/0001-050	2553+00	2606+00
26-03-70/0001-051	2606+00	2657+00
26-03-70/0001-052	2657+00	2709+00
26-03-70/0001-053	2709+00	2761+00
26-03-70/0001-054	2761+00	2813+00
26-03-70/0001-055	2813+00	2865+00
26-03-70/0001-056	2865+00	2917+00
26-03-70/0001-057	2917+00	2969+00
26-03-70/0001-058	2969+00	3021+00
26-03-70/0001-059	3021+00	3073+00
26-03-70/0001-060	3073+00	3125+00
26-03-70/0001-061	3125+00	3177+00
26-03-70/0001-062	3177+00	3227+00
26-03-70/0001-063	3227+00	3278+00
26-03-70/0001-064	3278+00	3330+00
26-03-70/0001-065	3330+00	3382+00
26-03-70/0001-066	3382+00	3434+00
26-03-70/0001-067	3434+00	3486+00
26-03-70/0001-068	3486+00	3538+00
26-03-70/0001-069	3538+00	3590+00
26-03-70/0001-070	3590+00	3641+00
26-03-70/0001-071	3641+00	3689+00
26-03-70/0001-072	3689+00	3741+00
26-03-70/0001-073	3741+00	3790+00
26-03-70/0001-074	3790+00	3844+00
26-03-70/0001-075	3844+00	3896+00
26-03-70/0001-076	3896+00	3948+00
26-03-70/0001-077	3948+00	4001+00
26-03-70/0001-078	4001+00	4053+00
26-03-70/0001-079	4053+00	4105+00
26-03-70/0001-080	4105+00	4158+00
26-03-70/0001-081	4158+00	4212+00
26-03-70/0001-082	4212+00	4265+00
26-03-70/0001-083	4265+00	4318+00
26-03-70/0001-084	4318+00	4370+00
26-03-70/0001-085	4370+00	4423+00
26-03-70/0001-086	4423+00	4475+00
26-03-70/0001-087	4475+00	4528+00
26-03-70/0001-088	4528+00	4581+00
26-03-70/0001-089	4581+00	4635+00
26-03-70/0001-090	4635+00	4688+00

DWG. No.	BEG. Sta.	END Sta.
26-03-70/0001-091	4688+00	4741+00
26-03-70/0001-092	4741+00	4794+00
26-03-70/0001-093	4794+00	4847+00
26-03-70/0001-094	4847+00	4900+00
26-03-70/0001-095	4900+00	4952+00
26-03-70/0001-096	4952+00	5004+00
26-03-70/0001-097	5004+00	5057+00
26-03-70/0001-098	5057+00	5111+00
26-03-70/0001-099	5111+00	5164+00
26-03-70/0001-100	5164+00	5217+00
26-03-70/0001-101	5217+00	5270+00
26-03-70/0001-102	5270+00	5323+52
26-03-70/0001-103	5323+52	5375+52
26-03-70/0001-104	5375+52	5428+52
26-03-70/0001-105	5428+52	5480+52
26-03-70/0001-106	5480+52	5534+52
26-03-70/0001-107	5534+52	5587+52
26-03-70/0001-108	5587+52	5640+52
26-03-70/0001-109	5640+52	5692+00
26-03-70/0001-110	5692+00	5745+00
26-03-70/0001-111	5745+00	5798+00
26-03-70/0001-112	5798+00	5851+00
26-03-70/0001-113	5851+00	5903+00
26-03-70/0001-114	5903+00	5956+00
26-03-70/0001-115	5956+00	6009+00
26-03-70/0001-116	6009+00	6062+00
26-03-70/0001-117	6062+00	6115+00
26-03-70/0001-117	6062+00	6115+00
26-03-70/0001-118	6115+00	6168+00
26-03-70/0001-119	6168+00	6220+00
26-03-70/0001-120	6220+00	6273+00
26-03-70/0001-121	6273+00	6326+00
26-03-70/0001-122	6326+00	6381+00
26-03-70/0001-123	6381+00	6434+00
26-03-70/0001-124	6434+00	6485+00
26-03-70/0001-125	6485+00	6538+00
26-03-70/0001-126	6538+00	6571+38

CONSTITUTION PIPELINE COMPANY, LLC
PROPOSED 30" NATURAL GAS PIPELINE
SOIL EROSION AND SEDIMENT CONTROL
AND SITE RESTORATION
FERC ALIGNMENT SHEETS
ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3
JULY 14, 2014

CONSTITUTION PIPELINE

H:_tdm\1574\100 - Constitution Pipeline\3 Pipeline\Alignments\INDEX-SHEET-IFB.DWG Plotted on: Jun 30, 2014 - 10:43am by epescina



DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

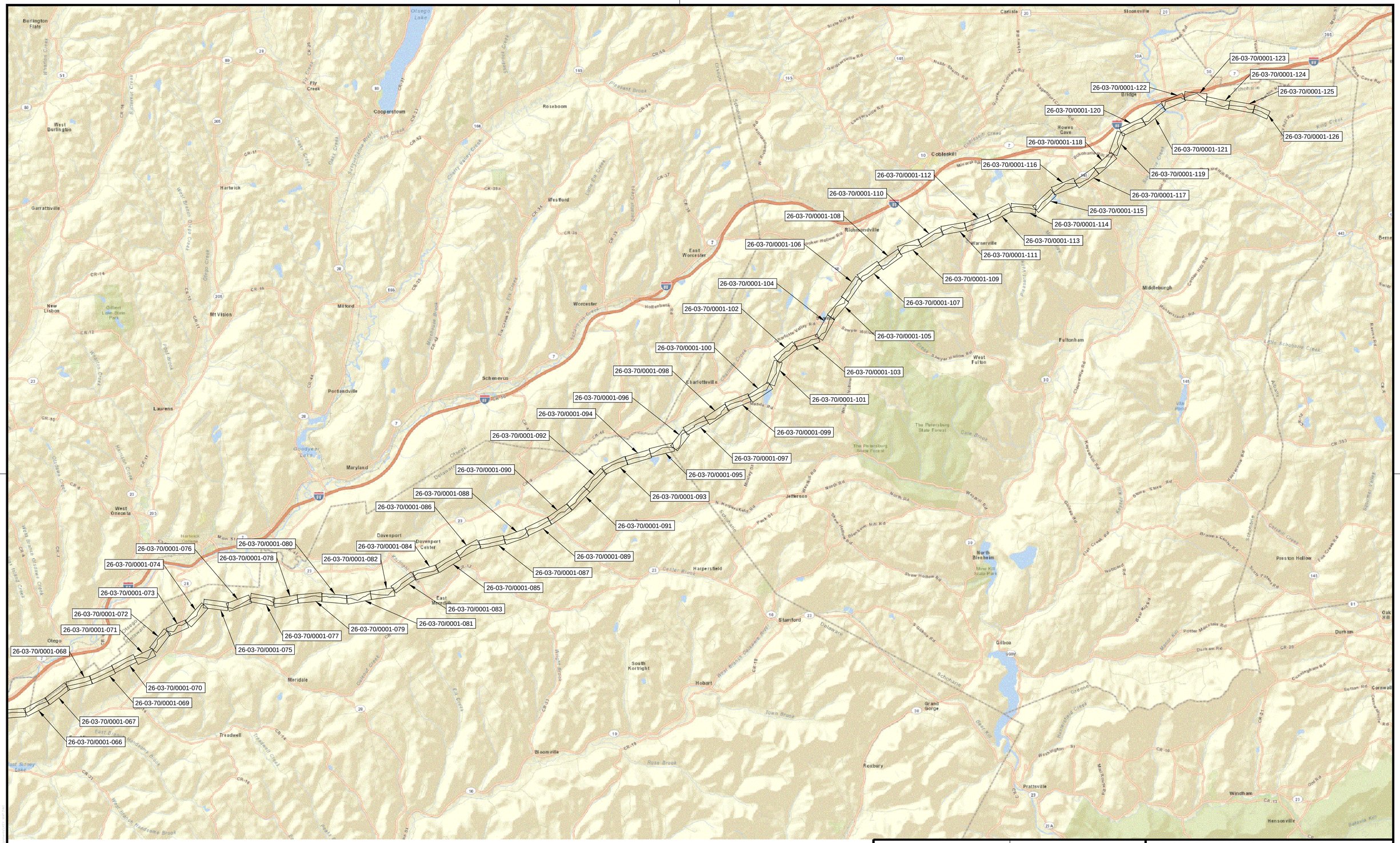
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC
KEY MAP
PROPOSED 30" NATURAL GAS PIPELINE

STA. 0+00 TO STA. 3382+00

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: NTS
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001-KEYMAP	SHEET 1 OF 2
WO: 1110415			



DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC
KEY MAP
PROPOSED 30" NATURAL GAS PIPELINE

STA. 3382+00 TO STA. 6571+38

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: NTS
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001-KEYMAP	SHEET 2 OF 2
WO: 1110415			

LEGEND

	PROPOSED PIPELINE
₽	PROPERTY LINE
P	POWER
	POWER POLE
	GUY ANCHOR
E	U/G ELEC
C	BURIED CABLE
	FOREIGN PIPELINE
W	WATER LINE
X	FENCE
	STONE ROW
SB	SEDIMENT BARRIER
	TOWNSHIP LINE
	COUNTY LINE
	STATE LINE
	ROAD CENTERLINE
	EDGE OF PAVEMENT
	GUARD RAIL
	RAILROAD
	ACCESS ROAD
	ESCGP-2 PERMIT BOUNDARY
	LIMITS OF CULTURAL RESOURCES & BIOLOGICAL SURVEYS
	PERMANENT EASEMENT
	EDGE OF WORK CORRIDOR/ LIMITS OF DISTURBANCE (LOD)
1360	CONTOUR LINE WITH ELEVATION
1164	100 YR. FLOOD PLAIN CONTOUR LINE
	ADDITIONAL TEMPORARY WORKSPACE
	TEMPORARY RIGHT OF WAY
	WATERBODY
	WETLAND AREA
	MAIN LINE VALVE LOCATION
A	TEST STATION (TYPE _)
SSD	SOLID STATE DECOUPLER
	GRADIENT CONTROL MAT
	PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)
	PERMANENT TRENCH BREAKER
RT.	RIGHT
LT.	LEFT
	TRANSITION FITTING
	FACTORY BEND
	SET ON WEIGHTS
MILE 50	MILEPOST MARKER

DRAWING NO.	REFERENCE TITLE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC
KEY MAP
PROPOSED 30" NATURAL GAS PIPELINE

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: NTS
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001-LEGEND	SHEET 1 OF 1
W.O.: 1110415			

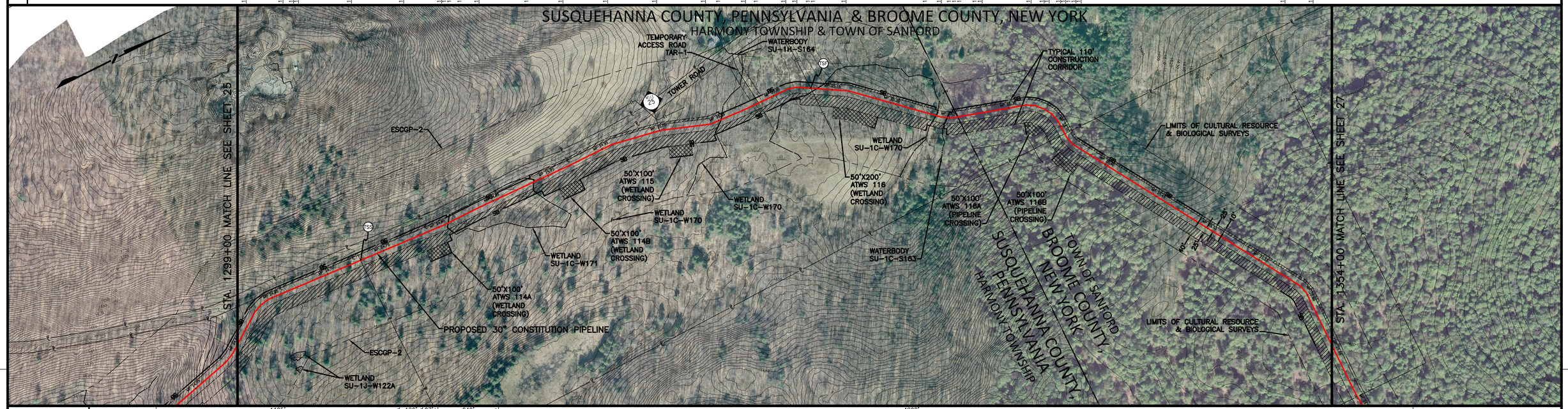
LINE LIST

PA-SU-127.000 | PA-SU-128.000 | NY-BR-001.000 | NY-BR-001.001

1299+00 | 1305+71 | 1333+58 | 1338+87 | 1354+00

PIPELINE STATIONING

1300+53 P.I. 1258'00" RT.
1300+93 P.I. 1243'16" RT.
1301+34 P.I. 1258'13" RT.
1301+74 P.I. 1243'11" RT.
1305+68 P.I. 0°07'46" RT.
1307+99 P.I. 0°32'10" LT.
1309+72 P.I. 516'38" LT.
1309+88 EDGE WETLAND SU-1C-W171
1310+20 TOP OF SLOPE
1311+42 P.I. 1°42'22" RT.
1314+03 EXIT WETLAND SU-1C-W171
1315+57 P.I. 1°29'04" LT.
1317+82 P.I. 10°17'13" RT.
1320+08 P.I. 9°00'00" RT.
1322+23 P.I. 16°00'00" LT.
1322+75 ENTER WETLAND SU-1C-W170
1323+99 P.I. 2°31'32" LT.
1324+54 ℄ WOOD MAT
1325+96 P.I. 14°48'36" RT.
1326+36 P.I. 14°48'36" RT.
1326+87 ℄ 30" BLUESTONE PIPELINE
1327+24 EXIT WETLAND SU-1C-W170
1327+94 P.I. 11°30'39" RT.
1328+63 P.I. 11°30'39" RT.
1332+61 ENTER WETLAND SU-1C-W170
1332+86 P.I. 12°45'05" LT.
1333+11 EXIT WETLAND SU-1C-W170
1333+14 TOP OF SLOPE
1333+20 ℄ WATERBODY SU-1C-S163
1333+25 TOP OF SLOPE
1333+35 P.I. 12°45'05" LT.
1336+62 P.I. 14°50'00" RT.
1337+12 P.I. 14°50'00" RT.
1337+62 P.I. 14°50'00" RT.
1338+62 P.I. 13°29'24" RT.
1338+78 EDGE OF ROW
1338+87 P.I. 13°29'24" RT.
1339+47 P.I. 14°54'31" LT.
1351+17 P.I. 16°04'43" RT.
1351+57 P.I. 16°04'43" RT.



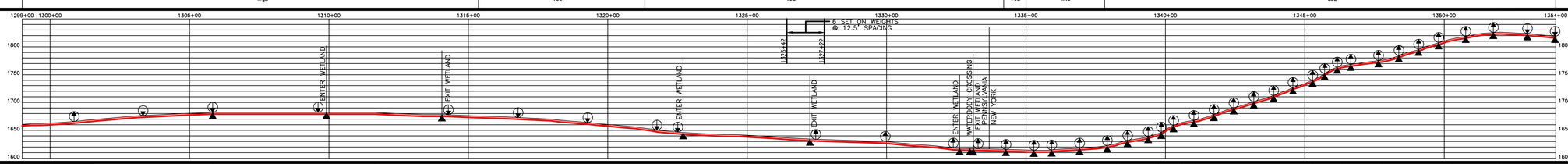
MATERIAL	1105' ① · 120' ⑤ · 27' ① · 240' ⑤ · 4008' ①
CLASS LOCATION	1
LAND USE	UF · OL · UF · PFO · PSS · PFO · PSS · UF · PFO · PEM · UF · PSS · WB · UF · OL · UF · OL · UF · IR
ENVIRONMENTAL SITE SPECIFIC E & S	3 11 12 13 19 20 32 37 38 40 43 49 61A 85 86 · 3 11 12 13 19 20 32 37 38 40 43 49 61A 85 86 · 1 2 3 6 7 11 12 13 19 20 30 31 31A 32 32A 33 35 36 37 38 40 43 49 56 61 61A 71 85 86
DEPTH OF COVER	3' · 4' · 3' · 4' · 3' · 4' · 3' · 4' · 5' · 3' · 4' · 3'
SOIL TYPE	MgB · VsD · VsB · VoB · MtC · LsE

GENERAL E & S FIGURES (PA): 19 20 30 31 31A 32 32A 33 34 62 70 72 73 74 81 82

GENERAL E & S FIGURES (NY): 18 19 28 29 29A 30 31 37 59 74 75 76 77 86

PROFILE — VERTICAL SCALE IN FEET (0, 100, 200)

GENERAL NOTES
1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
2. THE APPROXIMATE LOCATION AND TYPE OF SEDIMENT BARRIERS TO BE INSTALLED ALONG THE CONSTRUCTION WORKSPACE ARE LOCATED IN TABLES ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.



THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE SHALL BE USED AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BY THE ENVIRONMENTAL CONDITIONS BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND

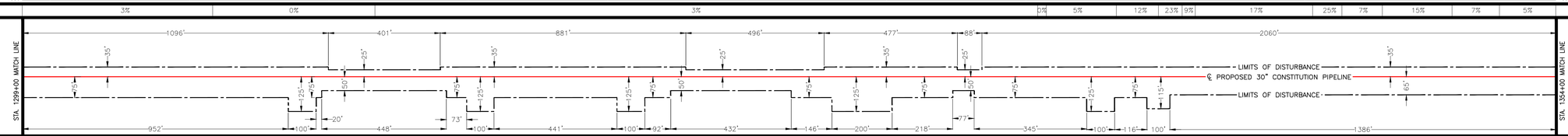
SLOPE (%)	SPACING (FT) AS REQ.
<5	150
5–10	100
>10–15	80
>15–20	60
>20–30	70
>30–40	50
>40–100	40
>100	35

PERMANENT TRENCH / SLOPE BREAKER SPACING

SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE: 3% · 0% · 3% · 0% · 5% · 12% · 23% · 9% · 17% · 25% · 7% · 15% · 7% · 5%

WORKSPACE SCHEMATIC



MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	5140'			
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'			
4	PIPE, 30" OD, 0.635" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 40 MILS ARO COATING	0'			
5	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	360'			
6	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
7	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'			
8	PIPE, 30" OD, 0.750" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'			

SOIL LEGEND

LsE – Lordstown and Oquaga extremely stony and rocky soils
MgB – Mardin very stony silt loam
MtC – Morris channery silt loam
VoB – Volusia channery silt loam
VsB – Volusia very stony silt loam
VsD – Volusia very stony silt loam

LAND USE LEGEND

1. AGRICULTURAL LAND (AG)
2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600
SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26-27-70/001 THRU 26-27-70/022	TYPICAL RIGHT-OF-WAY CROSS SECTIONS

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK	APP
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1299+00 TO STA. 1354+00
SUSQUEHANNA CO., PA & BROOME CO., NY

CONSTITUTION PIPELINE

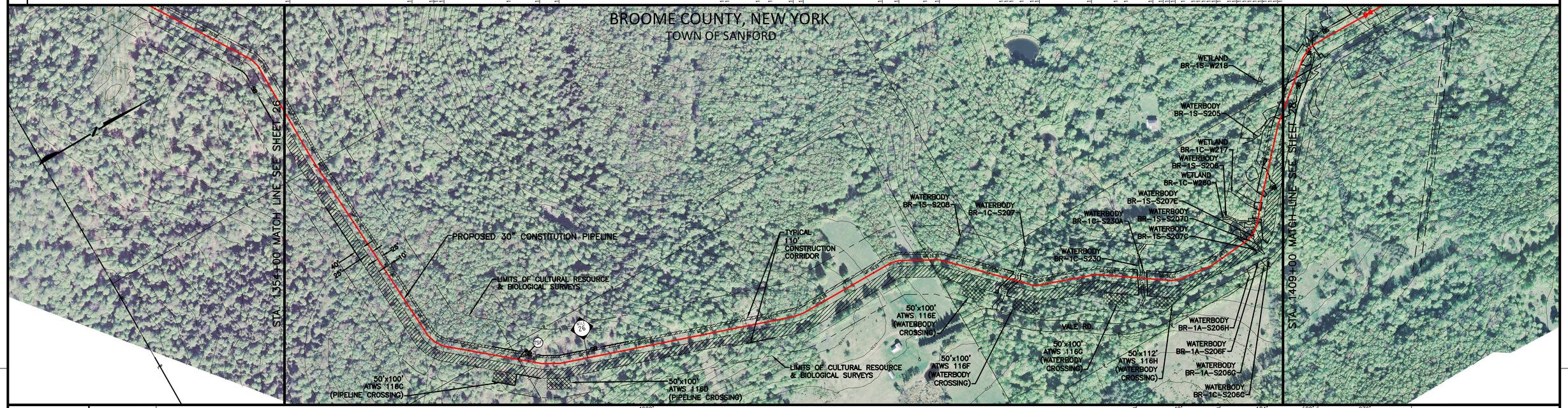
DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001	SHEET 26 OF 126
W.O.: 1110415			

LINE LIST

1354+00 | NY-BR-001.001 | 1356+63 | NY-BR-001.002 | 1368+69 | ALTB-NY-BR-001.000 | 1388+57 | NY-BR-001.022 | 1390+42 | ALT-B-NY-BR-002.001 | 1409+00

PIPELINE STATIONING

1356+29 P.I. 5°17'00" LT
1365+58 P.I. 15°33'00" LT
1365+68 P.I. 14°34'04" LT
1366+14 ℄ STONE ROW
1366+38 P.I. 15°33'00" LT
1369+71 ℄ BLUESTONE PIPELINE
1370+77 P.I. 10°50'31" LT
1371+56 P.I. 10°30'27" LT
1379+78 TOP OF SLOPE
1379+97 TOE OF SLOPE
1380+63 TOE OF SLOPE
1381+07 TOE OF SLOPE
1382+04 P.I. 9°15'00" LT
1382+44 P.I. 9°15'00" LT
1386+88 P.I. 14°30'00" RT
1387+21 P.I. 14°30'00" RT
1388+60 ℄ STONE ROW
1389+92 P.I. 10°00'00" RT
1392+24 TOP OF SLOPE
1392+51 TOE OF SLOPE
1392+31 ENTER WATERBODY BR-1C-S207
1392+39 TOE OF SLOPE
1392+48 TOP OF SLOPE
1393+36 P.I. 25°30'00" LT
1396+10 P.I. 15°00'00" RT
1397+98 ENTER WATERBODY BR-1C-S230
1398+09 EXIT WATERBODY BR-1C-S230
1399+38 P.I. 14°00'00" LT
1399+78 P.I. 14°00'00" LT
1401+28 P.I. 12°00'00" LT
1402+20 P.I. 13°19'46" LT
1403+24 ℄ WATERBODY BR-1S-S207D
1403+41 ℄ WETLAND BR-1S-W218
1403+45 ℄ WATERBODY BR-1C-S206
1403+55 ℄ WATERBODY BR-1S-S207E
1403+68 EXIT WETLAND BR-1S-W218
1403+81 ENTER WATERBODY BR-1S-S206
1403+96 EXIT WATERBODY BR-1S-S206
1404+14 ENTER WETLAND BR-1C-W217
1404+39 EXIT WETLAND BR-1C-W217
1404+60 EXIT WETLAND BR-1C-W217
1405+12 ENTER WETLAND BR-1C-W217
1405+32 EXIT WETLAND BR-1C-W217
1408+51 P.I. 25°24'00" RT
1408+76 ENTER WETLAND BR-1C-W217



| | | |

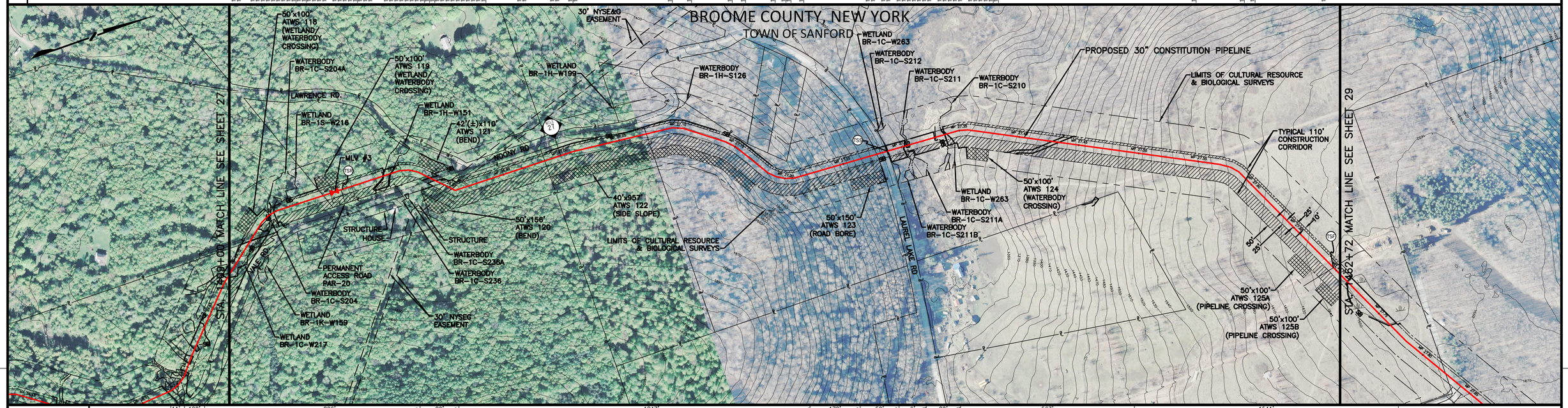
LINE LIST

ALT-B-NY-BR-002.001 | ALT-B-NY-BR-002.000 | ALT-B-NY-BR-003.000 | VALE ROAD | ALT-B-NY-BR-005.000 | ALT-B-NY-BR-006.000 | ALT-B-NY-BR-007.000 | LAUREL LAKE RD. | ALT-B-NY-BR-012.000

1409+00 | 1410+62 | 1414+60 | 1419+36 | 1420+06 | 1424+86 | 1429+46 | 1440+33 | 1440+81 | 1462+72

PIPELINE STATIONING

1409+01 BR-1S-S205 | 1409+62 BR-1S-S205 | 1410+66 BR-1C-W217 | 1410+80 BR-1C-W217 | 1410+89 BR-1C-S204 | 1410+96 BR-1C-S204 | 1411+04 BR-1C-S204 | 1411+62 BR-1C-S204 | 1412+07 BR-1S-W216 | 1412+42 BR-1S-W216 | 1412+64 BR-1S-W216 | 1412+96 BR-1C-S204 | 1413+10 BR-1C-S204 | 1414+60 BR-1C-S204 | 1417+38 BR-1H-W151 | 1417+68 BR-1H-W151 | 1417+70 BR-1H-W151 | 1418+00 BR-1H-W151 | 1418+11 BR-1H-W151 | 1418+51 BR-1H-W151 | 1418+80 BR-1H-W151 | 1419+67 BR-1H-W151 | 1419+81 BR-1H-W151 | 1419+94 BR-1H-W151 | 1420+45 BR-1H-W151 | 1420+69 BR-1H-W151 | 1420+74 BR-1H-W151 | 1423+98 BR-1H-W199 | 1424+06 BR-1H-W199 | 1425+41 BR-1H-W199 | 1425+50 BR-1H-W199 | 1426+17 BR-1H-W199 | 1428+25 BR-1H-W199 | 1430+62 BR-1C-W263 | 1431+10 BR-1C-W263 | 1433+09 BR-1C-W263 | 1433+58 BR-1C-W263 | 1435+37 BR-1C-S211 | 1435+77 BR-1C-S211 | 1436+57 BR-1C-S211 | 1440+40 BR-1C-S210 | 1440+43 BR-1C-S210 | 1440+45 BR-1C-S210 | 1440+48 BR-1C-S210 | 1440+76 BR-1C-S210 | 1440+80 BR-1C-W263 | 1440+83 BR-1C-W263 | 1441+61 BR-1C-S21 | 1441+64 BR-1C-S21 | 1441+70 BR-1C-S211 | 1441+73 BR-1C-S211 | 1442+05 BR-1C-S210 | 1443+01 BR-1C-S210 | 1443+41 BR-1C-S210 | 1443+47 BR-1C-S210 | 1443+50 BR-1C-S210 | 1444+46 BR-1C-W263 | 1444+48 BR-1C-W263 | 1455+57 BR-1C-S212 | 1456+09 BR-1C-S212 | 1456+49 BR-1C-S212 | 1462+38 FOREIGN PIPELINE CROSSING



MATERIAL: 11' | 120' | 896' | 80' | 1847' | 178' | 50' | 6' | 80' | 563' | 1541'

CLASS LOCATION: 1

LAND USE: PFO | UF PSS WB PSS | UF | PEM | UF | RD | UF | RD UF PSS WB PSS | PEM PSS WB PSS WB PSS | OL

ENVIRONMENTAL SITE SPECIFIC E & S: 3 12 13 14 18 19 28 34 37 40 46 58A 90 91 | 1 2 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73 | 3 12 13 14 18 19 28 34 37 40 46 58A 90 91 | 4 15A 44 45 | 78 | 4 15A 44 45 | 3 12 13 14 18 19 28 34 37 40 46 58A 90 91 | 2A 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73

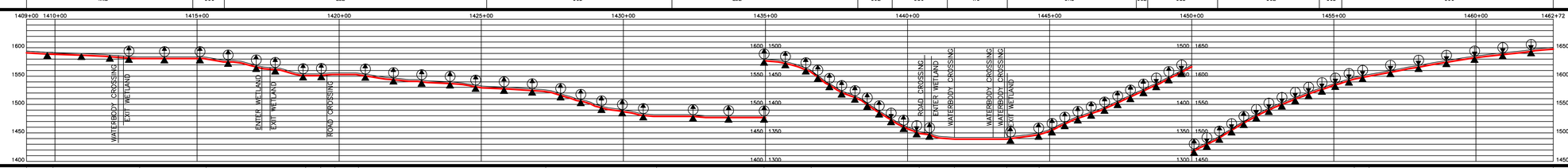
GENERAL E & S FIGURES: 18 19 28 29 29A 30 31 37 59 74 75 76 77 86

DEPTH OF COVER: 4' | 3' | 4' | 5' | 4' | 3' | 4' | 3' | 5' | 3' | 5' | 4' | 5' | 4' | 5' | 4'

SOIL TYPE: MtB | CcC | LsE | CcD | LsE | CcE | CuC | Wd | ChD | CcE | CuD | CcE | CcD | CcC

GENERAL NOTES
1. THE BEST MANAGEMENT PRACTICE (BMP) NUMBERS NOTED ABOVE CORRESPOND TO SPECIFIC DETAILS FOUND ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE BMP DETAILS INCLUDE GENERAL LAYOUT, LOCATION, DIMENSIONS, CONSTRUCTION NOTES, MATERIALS, ETC. THAT SHOULD BE FOLLOWED DURING CONSTRUCTION OF THE PIPELINE.
2. THE APPROXIMATE LOCATION AND TYPE OF SEDIMENT BARRIERS TO BE INSTALLED ALONG THE CONSTRUCTION WORKSPACE ARE LOCATED IN TABLES ON THE BEST MANAGEMENT PRACTICE DETAIL SHEETS. THE ACTUAL LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.

PROFILE — VERTICAL SCALE IN FEET (0 / 100 / 200)



THE LOCATIONS OF TRENCH BREAKERS AND SLOPE BREAKERS SHOWN ON THE PROFILE ARE ESTIMATED AS A GENERAL GUIDE. THE ACTUAL LOCATION OF THE BREAKERS SHALL BE DETERMINED IN THE FIELD BASED ON FIELD CONDITIONS BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

*AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

PERMANENT TRENCH BREAKER SPACING IN AGRICULTURAL LAND

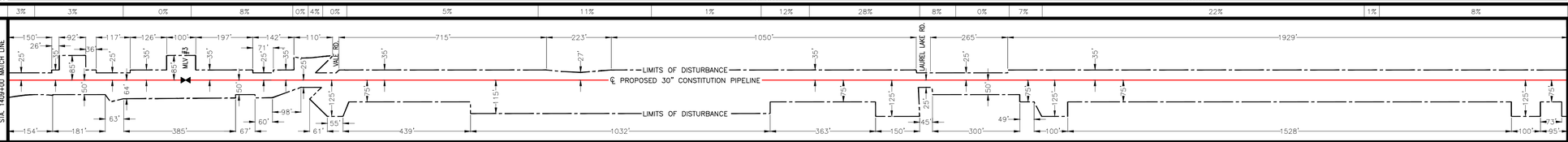
SLOPE (%)	SPACING (FT)
<5	AS REQ.
5–10	150
>10–15	100
>15–20	80
>20–30	70
>30–40	50
>40–100	40
>100	25

PERMANENT TRENCH / SLOPE BREAKER SPACING

SLOPE (%)	SPACING (FT)
<5	125
5–10	100
>10–20	75
>20–35	50
>35	25

AVERAGE % SLOPE: 3% | 3% | 0% | 8% | 0% | 4% | 0% | 5% | 11% | 1% | 12% | 28% | 8% | 0% | 7% | 22% | 1% | 8% | 8%

WORKSPACE SCHEMATIC



MATERIAL SUMMARY

ITEM NO.	DESCRIPTION	QTY.
1	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	4295'
2	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	747'
3	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING	0'
4	PIPE, 30" OD, 0.635" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	130'
5	PIPE, 30" OD, 0.529" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	120'
6	PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	80'
7	PIPE, 30" OD, 0.635" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND WEIGHT COATING	0'
8	PIPE, 30" OD, 0.750" WT., X-70, w/10 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING	0'

SOIL LEGEND
CcC – Cattaraugus channery silt loam
CcD – Cattaraugus channery silt loam
CcE – Cattaraugus channery silt loam
ChD – Chenango and Howard gravelly loams
CuC – Culvers channery silt loam
CuD – Culvers channery silt loam
LsE – Lordstown and Oquaga extremely stony and rocky soils
MtB – Morris channery silt loam
Wd – Wayland silt loam

LAND USE LEGEND
1. AGRICULTURAL LAND (AG)
2. INDUSTRIAL (ID)
3. COMMERCIAL (CM)
4. RESIDENTIAL (RE)
5. ROADS (RD)
6. OPEN WATER (OW)
7. SAND/GRAVEL PITS OR QUARRIES (SG)
8. OPEN LAND (EXISTING ROW, OPEN FIELDS, NON-AGRICULTURE) (OL)
9. SPECIAL USE (PARKS, GOLF COURSES, MUNICIPAL LAND, ETC.) (SP)
10. FORESTED WETLANDS (PFO)
11. SCRUB-SHRUB WETLANDS (PSS)
12. EMERGENT WETLANDS (PEM)
13. WATERBODY (WB)
14. UPLAND FOREST (UF)
15. INTERIOR FOREST (IR)

0 200 400 600 SCALE IN FEET

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

DRAWING NO.	REFERENCE TITLE
26-27-70/001 THRU 26-27-70/022 26-07-85/ALT-B-NY-BR-003.004-1-B 26-07-85/ALT-B-NY-BR-007.003-1-B (90-0267)VF-1P-1	TYPICAL RIGHT-OF-WAY CROSS SECTIONS VALE ROAD LAUREL LAKE ROAD MAINLINE VALVE 3

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK	APP
3	07/24/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #1 ER	1110415	JRL	TK
4	10/07/13	GIE	ISSUED FOR BID #1	1110415	JRL	TK
5	11/08/13	GIE	ISSUED FOR SUPPLEMENTAL FERC #2 ER	1110415	JRL	TK
6	06/02/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #3 ER	1110415	JRL	TK
7B	07/14/14	GIE	ISSUED FOR SUPPLEMENTAL FERC #4 ER/IFB #3	1110415	JRL	TK

CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 1409+00 TO STA. 1462+72
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 09/26/12	ISSUED FOR BID:	SCALE: 1" = 200'
CHECKED BY: GIE	DATE: 09/27/12	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-03-70/0001	SHEET 28 OF 126
W.O.: 1110415			