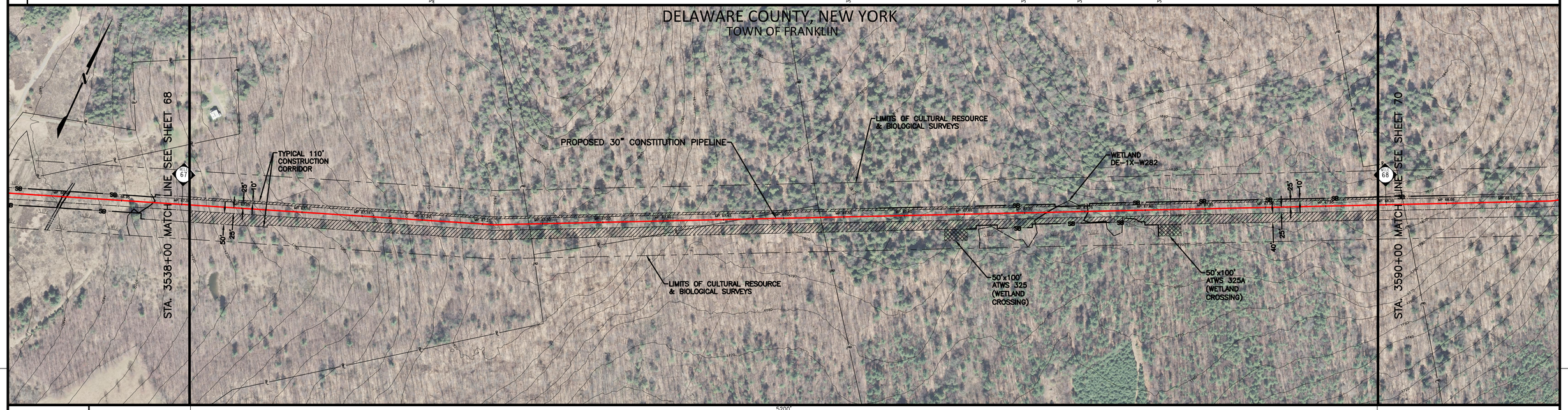
| LINE LIST | 3538+00 | NY-DE-080.000 (RESCINDED SURVEY ACCESS) | 3552+84 | UA-NY-DE-080.001 | 3562+18 | NY-DE-082.000 | 3565+62 | NY-DE-083.000 | 3590+00 |
|---|---|---|---|---|---|---|---|---|---|

| PIPELINE STATIONING | 3551+32 P.I. S30°30'0" LT | 3569+19 ℄ DIRT TRAIL | 3575+53 ENTER WETLAND DE-1X-W282 | 3577+34 EXIT WETLAND DE-1X-W282 | 3580+96 ℄ DIRT TRAIL |
|---|---|---|---|---|---|




| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIAL | 5200' ① | | | | | | | | | | | | | | | | | | | | | | |
| CLASS LOCATION | 1 | | | | | | | | | | | | | | | | | | | | | | |
| LAND USE | UF | IR | | | | | | | | | | | | | | | PFO | IR | | | | | |
| ENVIRONMENTAL SITE SPECIFIC E & S | 3 12 13 14 18 19 20 34 37 40 46 58A 88 89 | | | | | | | | | | | | | | | | | | | | | | |
| DEPTH OF COVER | 3' | | | | | | | | | | | | | | | | 4' | 3' | | | | | |
| SOIL TYPE | WeC | | VlB | | HcE | WmB | | | | | | | | | | | HcC | WmB | | | | HcC | |

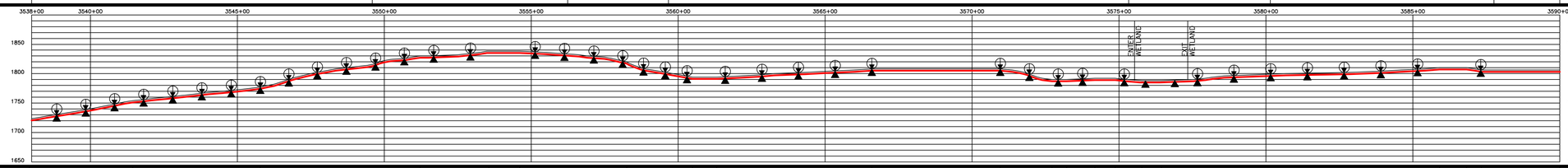
GENERAL E & S FIGURES

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | 19 | 28 | 29 | 29A | 30 | 31 | |
| 37 | 59 | 74 | 75 | 76 | 77 | 86 | |

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 SHALL BE USED AS A GUIDELINE ONLY. THE ACTUAL LOCATION OF TRENCH 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

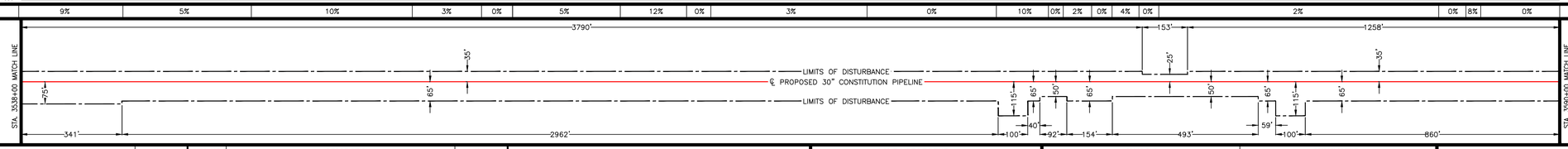
| SLOPE (%) | SPACING (FT) |
|---|---|
| <5 | AS REQ. |
| 5–10 | 150 |
| >10–15 | 100 |
| >15–20 | 80 |
| >20–30 | 70 |
| >30–40 | 50 |
| >40–100 | 40 |
| >100 | 25 |

PERMANENT TRENCH / SLOPE BREAKER SPACING

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

| AVERAGE % SLOPE | 9% | 5% | 10% | 3% | 0% | 5% | 12% | 0% | 3% | 0% | 10% | 0% | 2% | 0% | 4% | 0% | 2% | 0% | 8% | 0% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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 | 5200' | | | |
| 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 1.5 MILS INTERNAL 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 | 0' | | | |
| 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

HcC – Halcott, Mongaup and Vly soils
HcE – Halcott, Mongaup and Vly soils
VlB – Vly channery silt loam
WeC – Wellsboro channery silt loam
WmB – Willowemoc channery 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 |

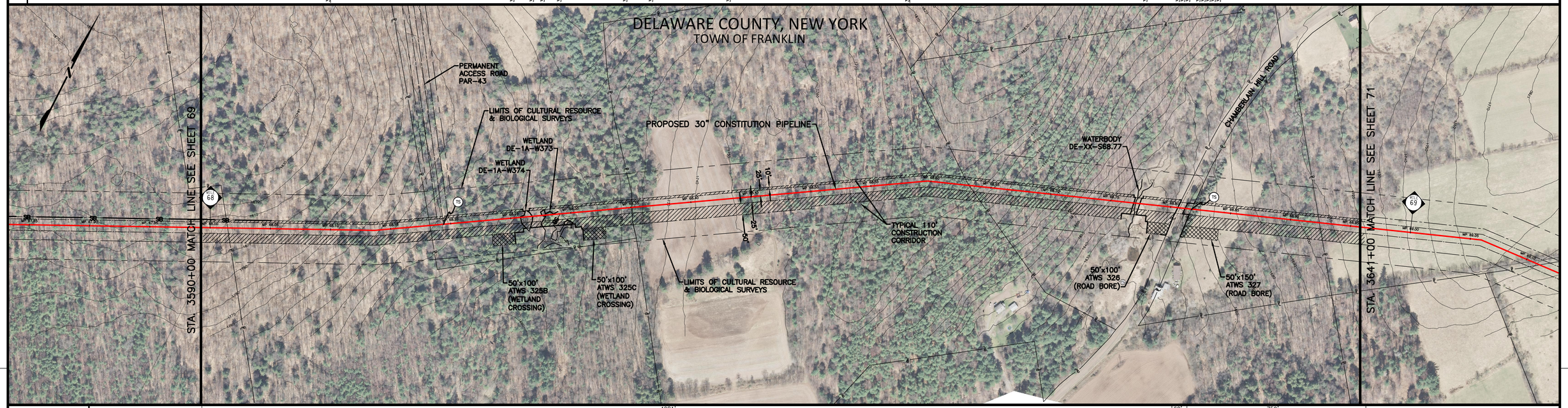
CONSTITUTION PIPELINE COMPANY, LLC
SOIL EROSION AND SEDIMENT CONTROL PLAN
FERC ALIGNMENT SHEETS
PROPOSED 30" NATURAL GAS PIPELINE
STA. 3538+00 TO STA. 3590+00
DELAWARE COUNTY, NEW YORK

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 69 OF 126 | | |
| W.O.: 1110415 | | | | | |

| LINE LIST | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3590+00 | NY-DE-083.000 | 3591+17 | NY-DE-084.000 (DENIED SURVEY ACCESS) | 3600+04 | NY-DE-085.000 | 3608+84 | NY-DE-086.000 (RESCINDED SURVEY ACCESS) | 3623+76 | NY-DE-088.000 (DENIED SURVEY ACCESS) | 3632+95 | CHAMBERLAIN HILL ROAD | 3633+57 | NY-DE-089.000 (DENIED SURVEY ACCESS) | 3639+20 | NY-DE-091.000 | 3641+00 | | | | | | | |

| PIPELINE STATIONING | |
|---|---|
| 3597+62 | P.I. 670200° LT |
| 3604+03 | ENTER WETLAND DE-1A-W374 |
| 3604+55 | EXIT WETLAND DE-1A-W374 |
| 3604+97 | ENTER WETLAND DE-1A-W373 |
| 3605+74 | EXIT WETLAND DE-1A-W373 |
| 3608+91 | ℄ STONE ROW |
| 3609+83 | ENTER AGRICULTURAL LAND |
| 3613+52 | EXIT AGRICULTURAL LAND |
| 3621+93 | P.I. 1139207° RT |
| 3632+75 | TOP OF SLOPE |
| 3633+06 | ℄ CHAMBERLAIN HILL ROAD |
| 3633+19 | TOP OF SLOPE |
| 3633+32 | TOP OF SLOPE |
| 3633+24 | TOP OF SLOPE |
| 3633+25 | TOP OF SLOPE |
| 3633+31 | OUTLET PIPE |
| 3633+57 | PR. 6IT LT. |




| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MATERIAL | 4281' ① | | | | | | | | | | | | | | | | | | | | | | | 759' ① |
| CLASS LOCATION | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| LAND USE | IR | | | | | | PFO | IR | PFO | IR | UF | AG | UF | IR | | | | | UF | WB | OL | RD | UF | OL | UF | AG |
| ENVIRONMENTAL SITE SPECIFIC E & S | 3 12 13 14 18 19 20 34 37 40 46 58A 88 89 | | | | | | | | 3 12 13 14 18 19 20 34 37 40 46 58A 88 89 | | | | | | | | | | 2A 5 6 7 18 19 29 29A 32 33 34 35 37 40 58 73 | | | 15A 44 45 | | | | |
| DEPTH OF COVER | 3' | | | | | | 4' | | 3' | | 4' | | | 3' | | | | | 5' | 4' | 5' | 4' | | 3' | | 4' |
| SOIL TYPE | HcC | | HcE | | HcC | | WeC | | | | WeB | OpB | WeB | OpB | | | | | LaE | LaD | MrB | LaC | | WfC | | LaC |

GENERAL E & S FIGURES

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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.
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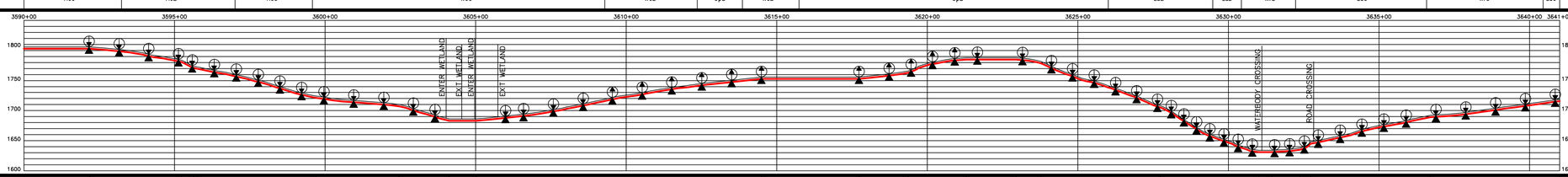
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.




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

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

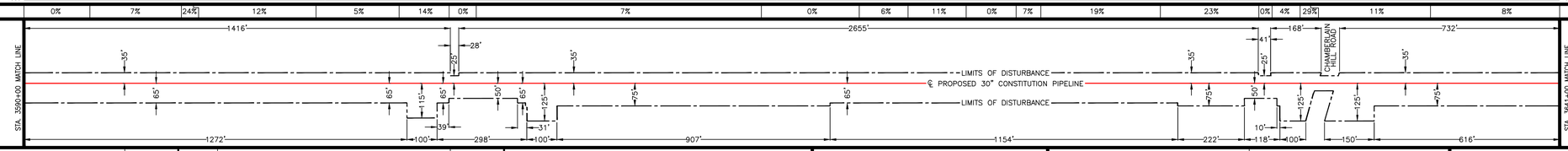
AT A MINIMUM, TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

| 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 | 0% | 7% | 24% | 12% | 5% | 14% | 0% | 7% | 0% | 6% | 11% | 0% | 7% | 19% | 23% | 0% | 4% | 29% | 11% | 8% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

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 | 5040' | | | |
| 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 1.5 MILS INTERNAL COATING AND 40 MILS ARO COATING | 60' | | | |
| 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 | 0' | | | |
| 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

- HcC – Halcott, Mongaup and Vly soils
- HcE – Halcott, Mongaup and Vly soils
- LaC – Lackawanna flaggy silt loam
- LaD – Lackawanna flaggy silt loam
- LaE – Lackawanna flaggy silt loam
- MrB – Morris flaggy silt loam
- OpB – Oquaga channery silt loam
- WeB – Wellsboro channery silt loam
- WeC – Wellsboro channery silt loam
- WfC – Wellsboro and Mardin soils

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<br>26–07–85/NY–DE–089.003–1–B | TYPICAL RIGHT–OF–WAY CROSS SECTIONS<br>CHAMBERLAIN HILL ROAD |

| 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. 3590+00 TO STA. 3641+00
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

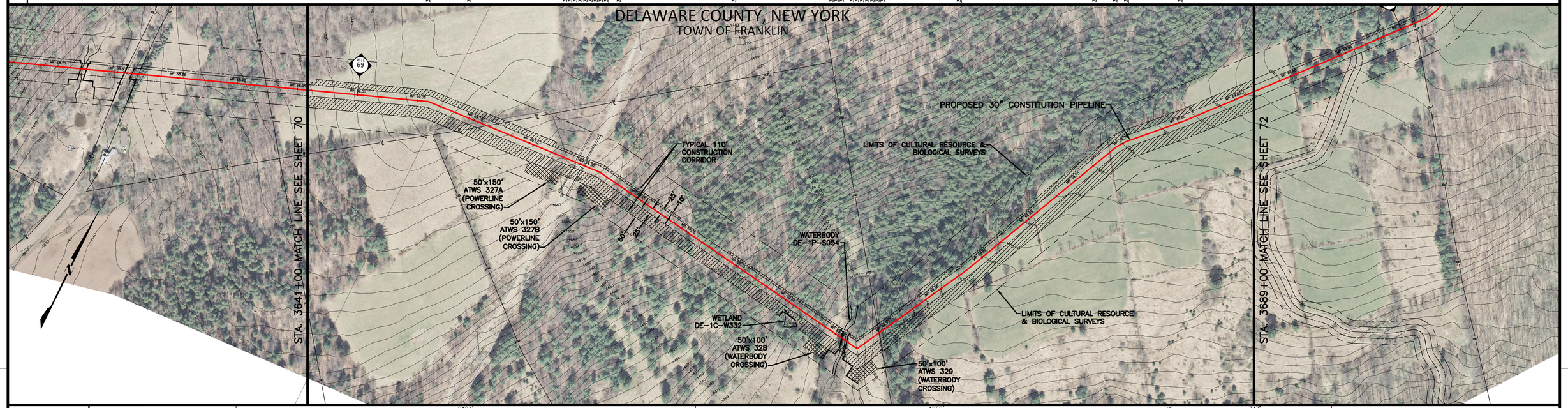
| | | | |
|---|---|---|---|
| DRAWN BY: GIE | DATE: 09/26/12 | ISSUED FOR BID: | SCALE: 1" = 200' |
| CHECKED BY: GIE | DATE: 09/27/12 | ISSUED FOR CONSTRUCTION: | |
| APPROVED BY: | DATE: | DRAWING NUMBER: 26–03–70/0001 | SHEET 70 OF 126 |
| W.O: 1110415 | | | |

LINE LIST

3641+00 | NY-DE-091.0000 | 3649+10 | NY-DE-092.0000 | 3669+28 | NY-DE-093.0000 | 3689+00

PIPELINE STATIONING

3646+33 P.I. 17°00'00" RT.
3648+72 ℄ STONE ROW
3653+27 UTILITY POWER LINE
3653+30 PP-159" RT.
3653+33 UTILITY POWER LINE
3653+58 UTILITY POWER LINE
3653+58 ℄ GRASS ROAD
3653+64 UTILITY POWER LINE
3653+64 UTILITY POWER LINE
3654+49 UTILITY POWER LINE
3654+49 P.I. 12°00'00" RT.
3655+43 ℄ ATV TRAIL
3662+23 ℄ ATV TRAIL
3667+28 TOP OF SLOPE
3667+32 ENTER WATERBODY DE-1P-S054
3667+35 TOE @ SLOPE
3667+43 EXISTING FENCE
3667+45 EXISTING FENCE
3667+46 EXIT WATERBODY DE-1P-S054
3667+51 TOE @ SLOPE
3667+61 EXISTING FENCE
3668+41 EXISTING FENCE
3668+45 EXISTING FENCE
3674+00 P.I. 3°48'13" LT.
3682+11 ℄ STONE ROW
3682+47 P.I. 9°54'08" RT.
3682+96 P.I. 9°51'49" RT.
3685+73 P.I. 3°04'03" LT.




| | | | | | | |
|---|---|---|---|---|---|---|
| MATERIAL | 2101' ① | 3662+01 | 3668+11 2-70-18 | 1952' ② | 3681+53 | 747' ① |
| CLASS LOCATION | 1 | | | | | |
| LAND USE | AG; UF; OL; UF; IR; UF; WB; UF; OL; UF; AG; UF; AG | | | | | |
| ENVIRONMENTAL SITE SPECIFIC E & S | 3 12 13 14 18; 19 20 34 37 40; 46 58A 88 89 | | 2A 5 6 7 18; 19 29 29A 32 33 34; 35 37 40 58 73 | | | |
| DEPTH OF COVER | 4' | 3' | 5' | 4' | 3' | 4' 3' 4' |
| SOIL TYPE | LaC | LaD | LdE | MoE | LaC | |

GENERAL E & S FIGURES
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.
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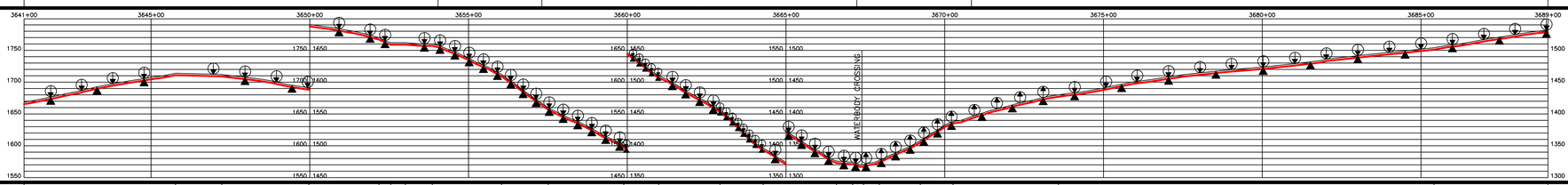
3. TEMPORARY AND PERMANENT SLOPE BREAKER SPACING IS THE SAME. SLOPE BREAKERS SHALL BE MAINTAINED IN PLACE AT ALL TIMES.




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

PERMANENT SLOPE BREAKERS (ARROW INDICATES PLAN VIEW FLOW DIRECTION)

PERMANENT TRENCH BREAKER

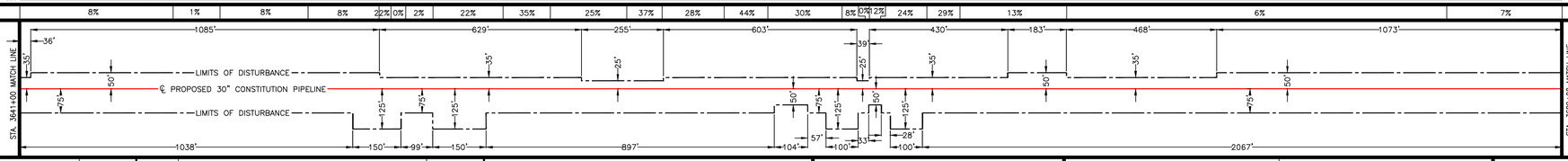
NOT A MINIMUM. TRENCH BREAKERS AND SLOPE BREAKERS SHALL BE LOCATED WITHIN 50 FT. OF THE EDGE (BOTH SIDES) OF WETLANDS AND WATERBODIES. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENVIRONMENTAL INSPECTOR AND CONTRACTOR.

| 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: 8% | 1% | 8% | 8% | 22% | 0% | 2% | 22% | 35% | 25% | 37% | 28% | 44% | 30% | 8% | 0% | 2% | 24% | 29% | 13% | 6% | 7%

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 | 2848' | | | |
| 2 | PIPE, 30" OD, 0.562" WT., X-70, w/15-17 MILS FBE EXTERNAL COATING AND 1.5 MILS INTERNAL COATING | 1952' | | | |
| 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 | 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 | 0' | | | |
| 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
LaC – Lackawanna flaggy silt loam
LaD – Lackawanna flaggy silt loam
LdE – Lackawanna and Bath soils
MoE – Maplecrest gravelly 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. 3641+00 TO STA. 3689+00
DELAWARE COUNTY, NEW YORK

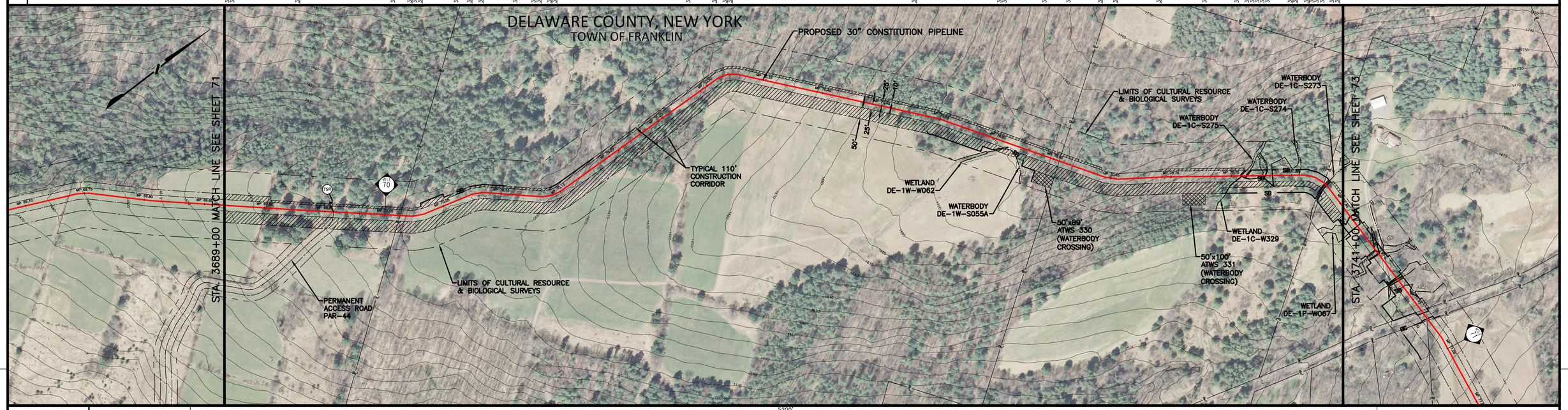
CONSTITUTION PIPELINE

| | | | |
|---|---|---|---|
| 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 71 OF 126 |
| W.O.: 1110415 | | | |

| LINE LIST | 3689+00 | NY-DE-093.000 | 3696+66 | NY-DE-096.000 | 3727+94 | NY-DE-097.000 | NY-DE-098.000 3739+75 | 3741+00 |
|---|---|---|---|---|---|---|---|---|

PIPELINE STATIONING

3689+21 EXIT AGRICULTURAL LAND
3689+89 ℄ STONE ROW
3692+55 P.I. 0°36'37" LT.
3696+92 ℄ STONE ROW
3697+22 P.I. 12°43'04" LT.
3697+58 ENTER AGRICULTURAL LAND
3697+71 P.I. 2°45'14" LT.
3699+51 EXIT AGRICULTURAL LAND
3700+00 P.I. 13°15'25" RT.
3700+49 P.I. 13°15'25" RT.
3702+14 ENTER AGRICULTURAL LAND
3702+85 EXIT AGRICULTURAL LAND
3703+10 P.I. 13°16'10" LT.
3703+58 P.I. 13°16'48" LT.
3703+89 P.I. 13°16'10" LT.
3711+78 ℄ STONE ROW
3712+45 P.I. 16°01'19" RT.
3712+85 P.I. 16°01'19" RT.
3713+25 P.I. 16°01'19" RT.
3722+30 P.I. 7°00'35" RT.
3725+70 TOP OF SLOPE
3725+85 TOP OF SLOPE
3727+53 ℄ STONE ROW
3728+55 ℄ DIRT TRAIL
3730+05 P.I. 11°03'12" LT.
3730+64 P.I. 11°03'12" LT.
3732+70 P.I. 2°00'00" RT.
3734+72 ℄ STONE ROW
3736+07 ENTER WATERBODY DE-1C-S275
3736+17 TOP OF SLOPE
3736+23 EXIT WATERBODY DE-1C-S275
3736+84 ENTER WETLAND DE-1C-W329
3736+94 EXIT WETLAND DE-1C-W329
3737+49 ENTER WETLAND DE-1C-W329
3738+51 P.I. 16°00'06" RT.
3738+71 P.I. 16°00'06" RT.
3739+82 TOP OF SLOPE
3739+84 EXIT WETLAND DE-1C-W329
3739+86 EXIT WATERBODY DE-1C-S273
3739+88 TOP OF SLOPE
3740+11 P.I. 5°34'42" RT.




| | | |

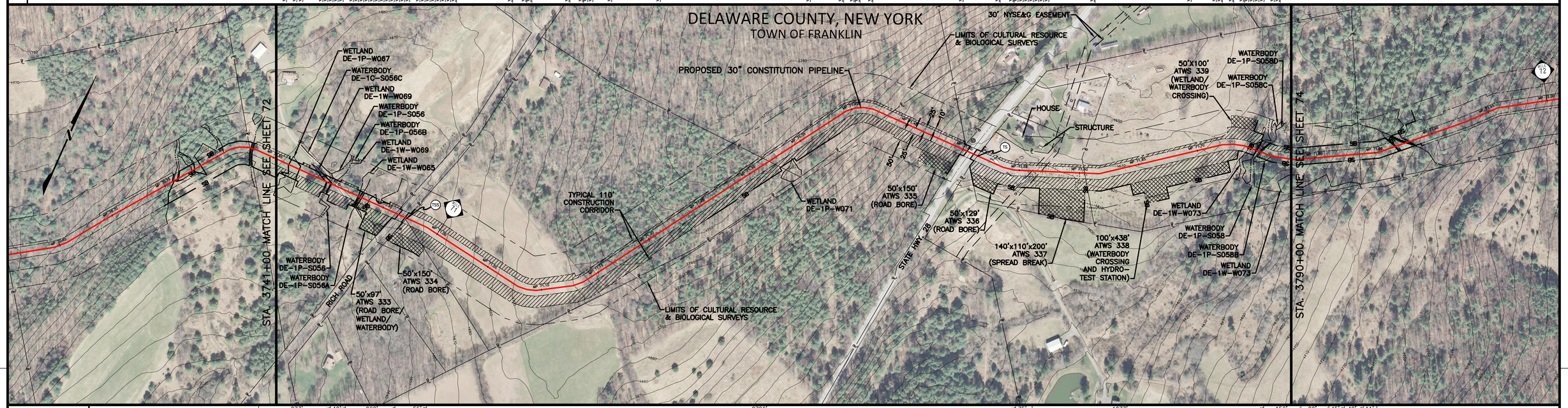
LINE LIST

RICH ROAD | STATE HWY. 28

3741+00 | NY-DE-098.000 | 3746+77 | 3747+29 | NY-DE-099.000 | 3765+64 | NY-DE-101.000 | 3771+55 | NY-DE-100.000 (DENIED SURVEY ACCESS) | 3775+18 | 3775+89 | NY-DE-103.000 | 3780+70 | NY-DE-104.000 | 3790+00

PIPELINE STATIONING

| | |
|---|---|
| 3741+62 | ENTER WETLAND DE-1P-W067 |
| 3741+75 | PP. 113' LT. |
| 3742+13 | EXIT WETLAND DE-1P-W067 |
| 3743+38 | ENTER WETLAND DE-1W-W069 |
| 3743+44 | TOE OF SLOPE |
| 3743+47 | ENTER WATERBODY DE-1P-S056 |
| 3743+50 | EXIT WETLAND DE-1W-W069 |
| 3743+63 | TOE OF SLOPE |
| 3743+80 | TOE OF SLOPE |
| 3743+83 | PP. 90' LT. |
| 3743+88 | PP. 112' LT. |
| 3744+14 | TOE OF SLOPE |
| 3744+25 | UTILITY POWER LINE |
| 3744+39 | TOE OF SLOPE |
| 3744+46 | TOE OF SLOPE |
| 3745+06 | ENTER WETLAND DE-1W-W065 & WATERBODY DE-1P-S056A |
| 3745+47 | EXIT WETLAND DE-1W-W065 |
| 3746+12 | PP. 81' RT. |
| 3746+15 | EXISTING FENCE |
| 3746+63 | CROSS RICH ROAD |
| 3747+24 | PP. 54' RT. |
| 3747+29 | ENTER AGRICULTURAL LAND |
| 3748+22 | PP. 82' RT. |
| 3753+03 | P.I. 13°28'34" LT. |
| 3753+43 | P.I. 13°30'06" LT. |
| 3753+83 | P.I. 13°29'44" LT. |
| 3755+47 | P.I. 12°38'19" LT. |
| 3755+96 | P.I. 17°43'27" LT. |
| 3756+16 | EXIT AGRICULTURAL LAND |
| 3756+25 | ℄ STONE ROW |
| 3757+52 | ℄ DIRT TRAIL |
| 3760+25 | ℄ STONE ROW |
| 3768+75 | ℄ DIRT TRAIL |
| 3769+67 | P.I. 14°15'48" RT. |
| 3770+57 | P.I. 14°15'48" RT. |
| 3770+67 | P.I. 14°15'48" RT. |
| 3770+87 | P.I. 14°15'48" RT. |
| 3775+54 | ℄ STATE HWY. 28 |
| 3777+12 | P.I. 10°45'56" LT. |
| 3777+61 | P.I. 10°45'56" LT. |
| 3777+73 | PP. 104' RT. |
| 3778+24 | TOE OF SLOPE |
| 3778+52 | TOE OF SLOPE |
| 3778+57 | TOE OF SLOPE |
| 3778+60 | UTILITY POWER LINE |
| 3779+36 | PP. 91' LT. |
| 3781+35 | P.I. 15°51'20" LT. |
| 3786+01 | ℄ DIRT DRIVE |
| 3786+74 | ℄ DIRT DRIVE |
| 3786+90 | P.I. 11°00'00" RT. |
| 3787+38 | P.I. 11°25'07" RT. |
| 3787+86 | P.I. 11°00'00" RT. |
| 3788+09 | ENTER WETLAND DE-1W-W073 |
| 3788+40 | ENTER WATERBODY DE-1P-S058 |
| 3788+44 | EXIT WATERBODY DE-1P-S058 |
| 3788+57 | EXIT WETLAND DE-1W-W073 |
| 3789+20 | TOP OF SLOPE |
| 3789+23 | P.I. 12°27'15" LT. |

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