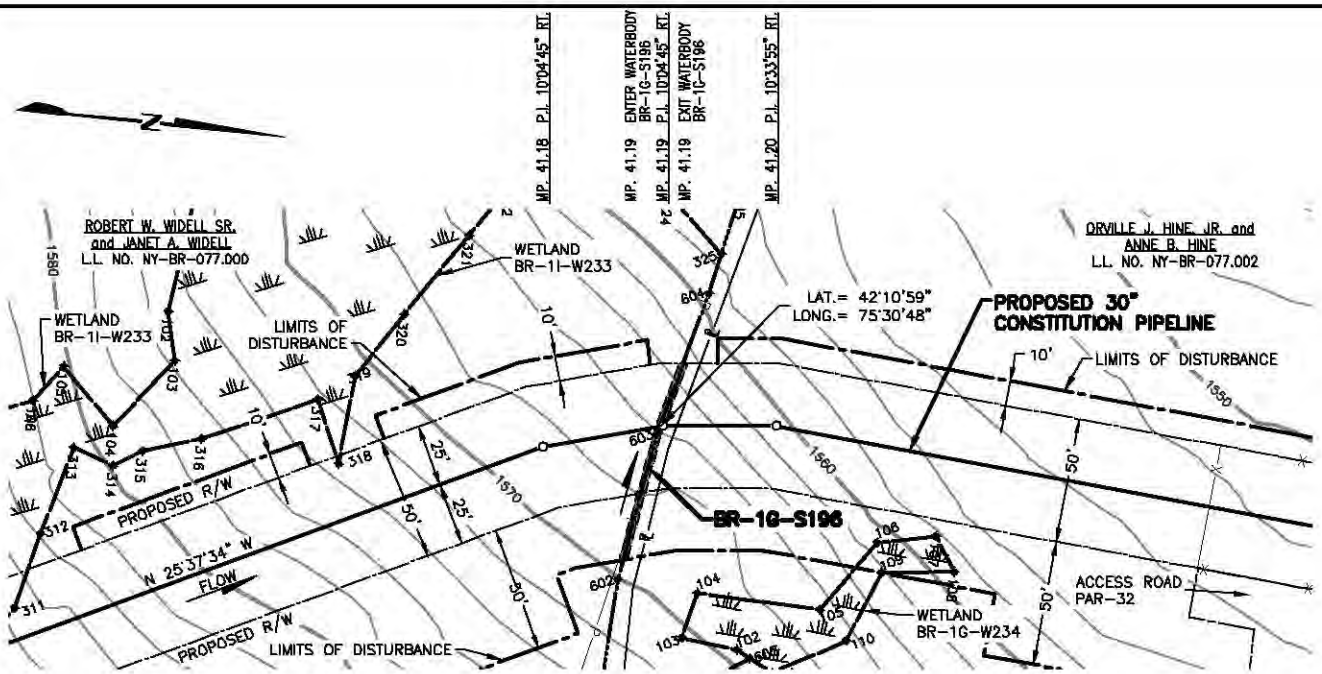
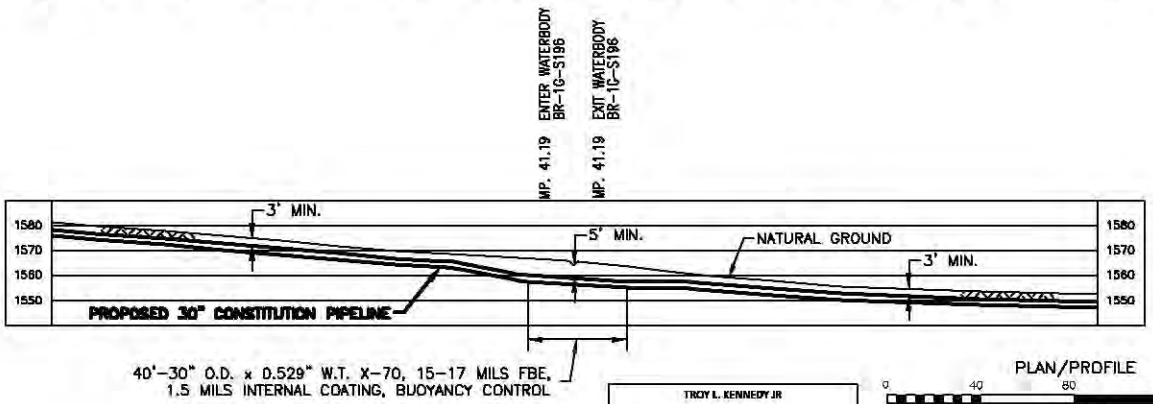
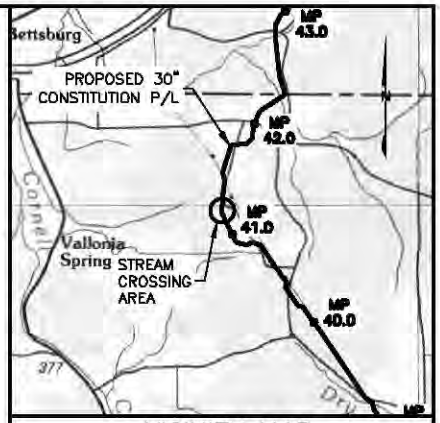






VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1G-S196	UNT to Cornell Creek	Ephemeral	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-42	ALIGNMENT SHEET

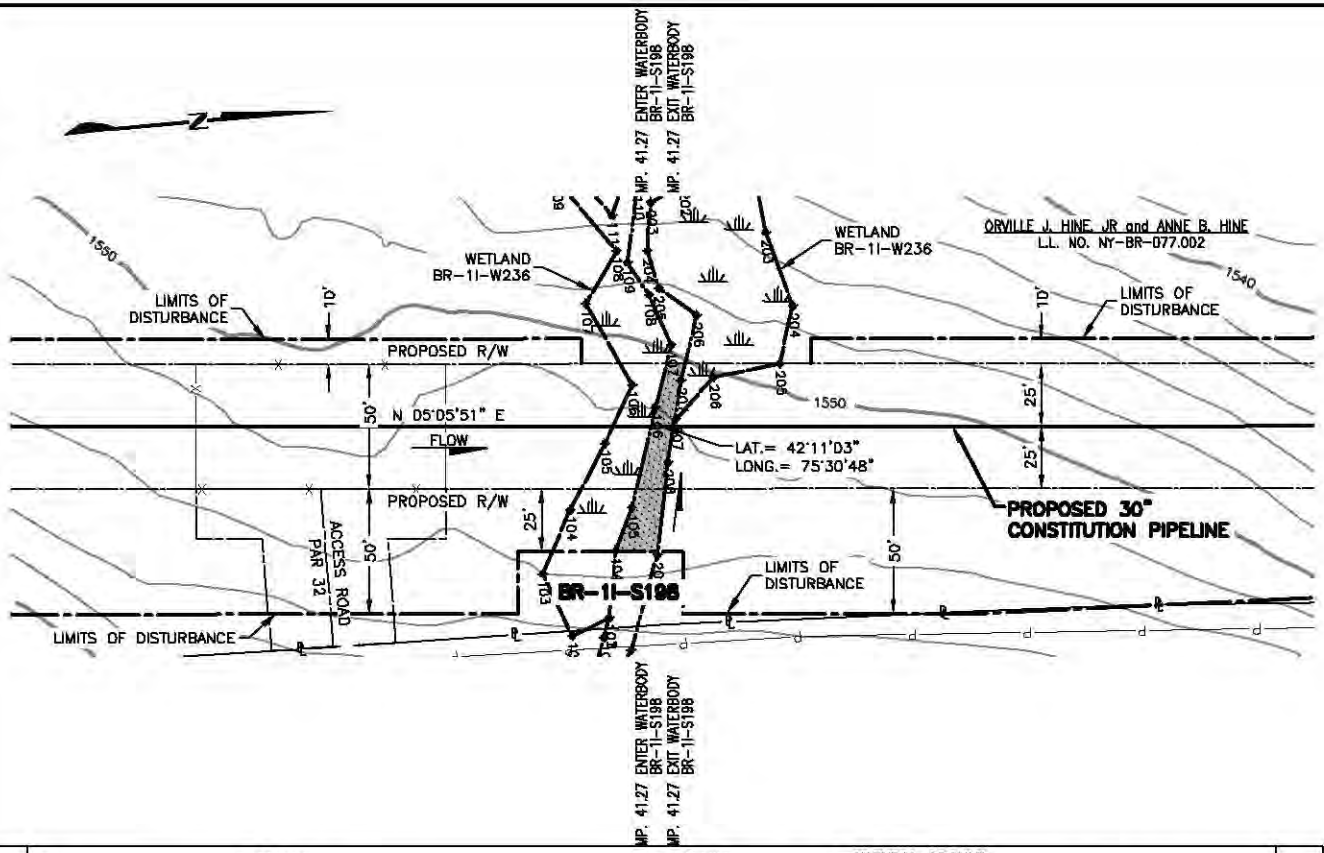
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-11-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-15-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUED FOR USE	1110415		

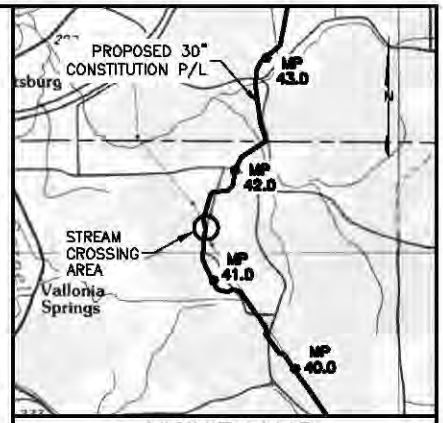
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1G-S196 @ M.P. 41.19
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-07-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1G-S196-1-2	SHEET 88 OF 214
WO: 1110415			



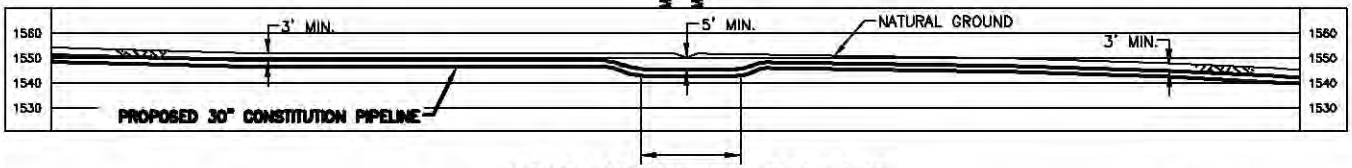


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1I-S198	UNT to Cornell Creek	Intermittent	9	0.02	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-42	ALIGNMENT SHEET

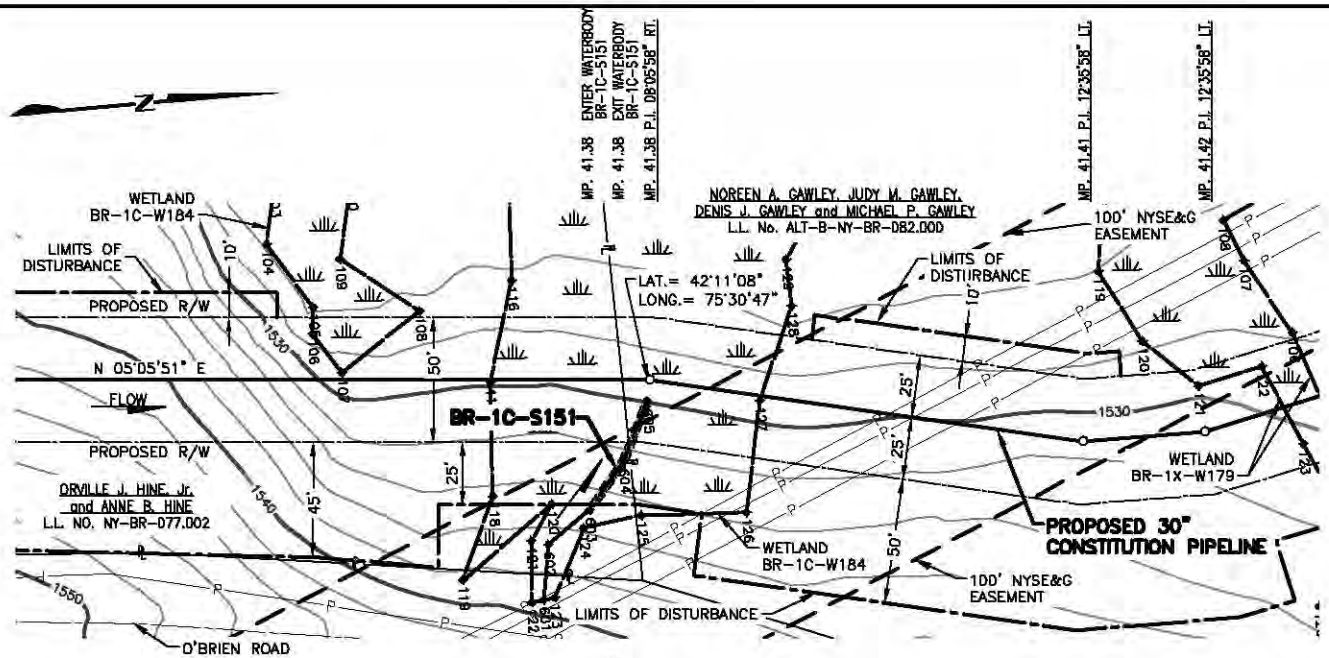
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUE FOR USE	1110415		
1	08-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	ISSUE FOR USE	1110415		

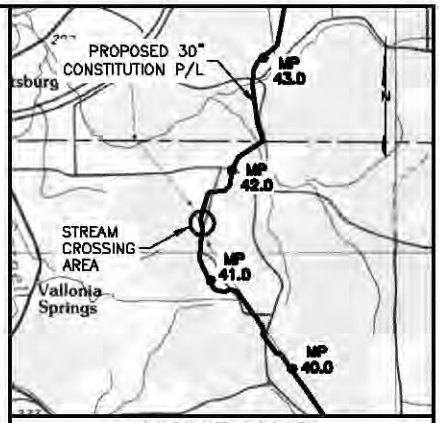
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S198 @ M.P. 41.27
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-12-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S198-1-3	SHEET 89 OF 213
WO: 1110415			



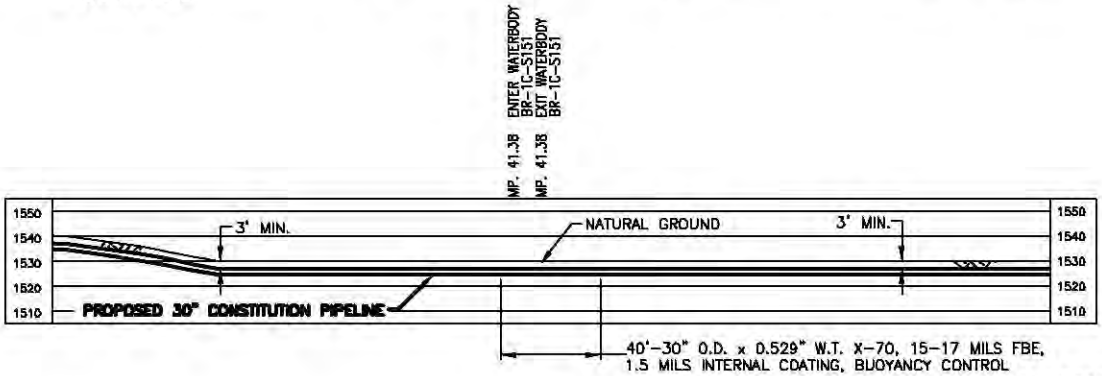


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1C-S151	UNT of Cornell Creek	Ephemeral	0	0.01	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-42	ALIGNMENT SHEET

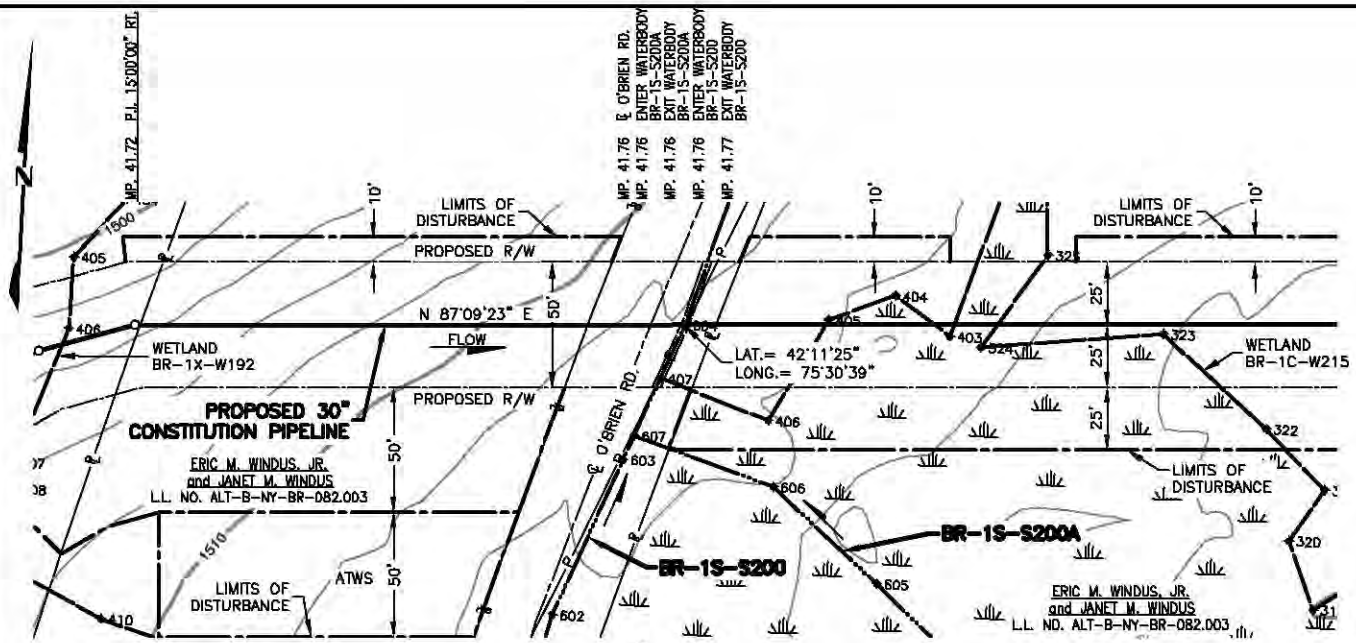
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-05-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-08-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUE FOR USE	1110415		

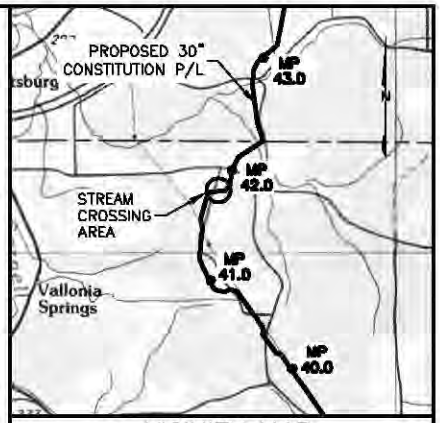
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1C-S151 @ M.P. 41.38
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-22-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1C-S151-1-2	SHEET 90 OF 214
WO: 1110415			



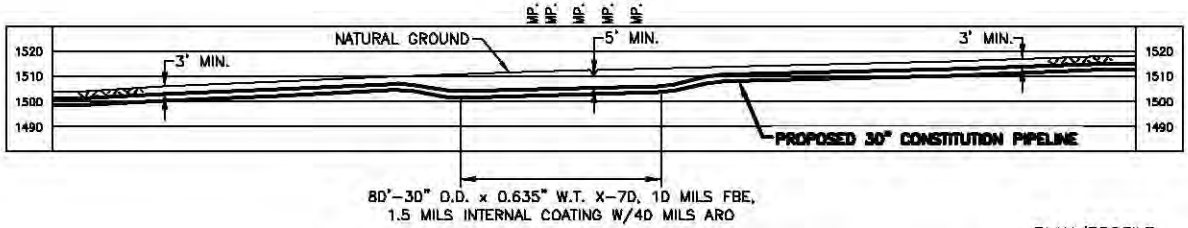


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1S-S200	Road Ditch	Intermittent	3	0.00	N/A	N	N/A	Conventional Bore
BR-1S-S200A	UNT to Cornell Creek	Intermittent	0	0.01	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-43	ALIGNMENT SHEET

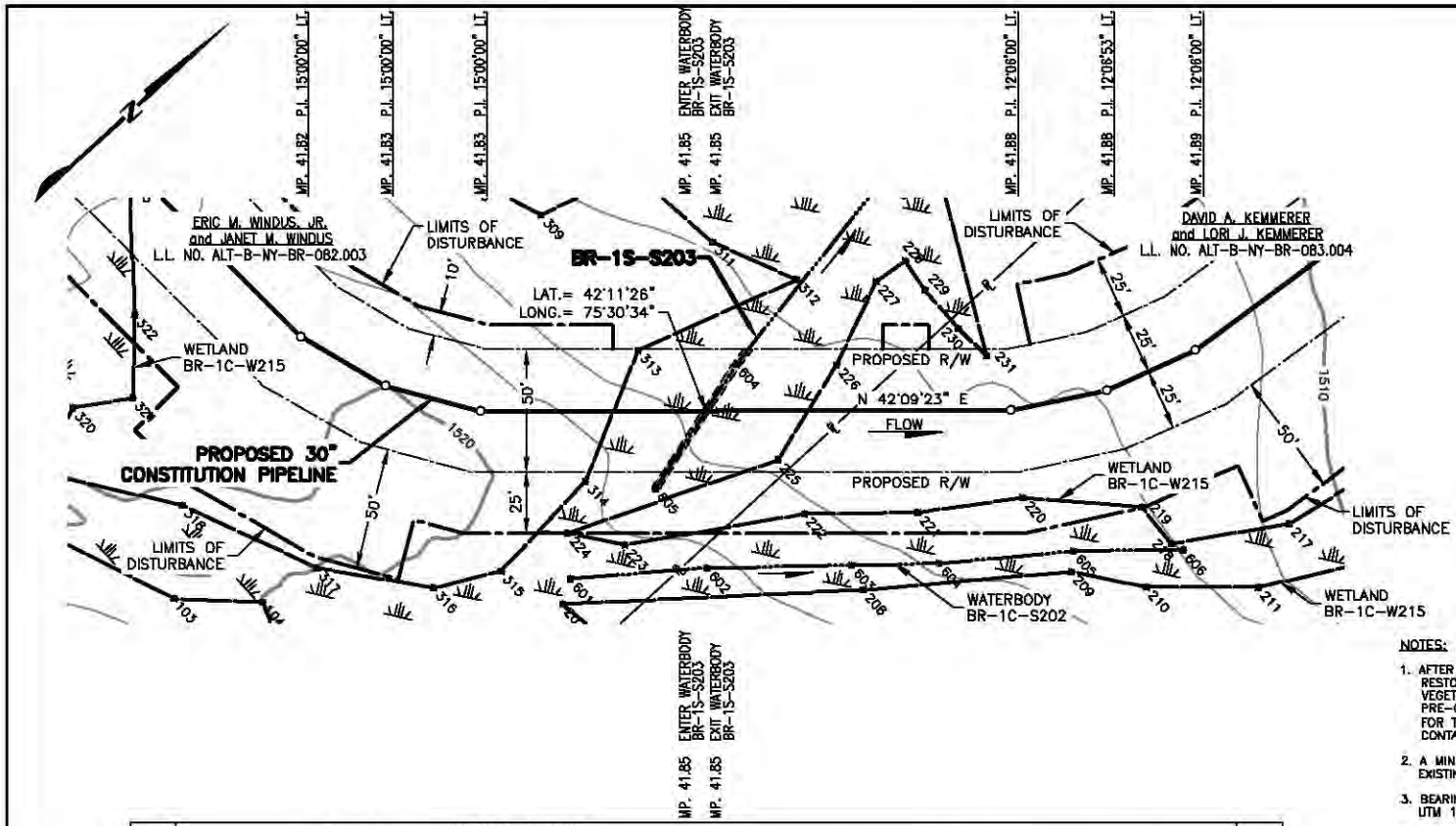
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-17-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

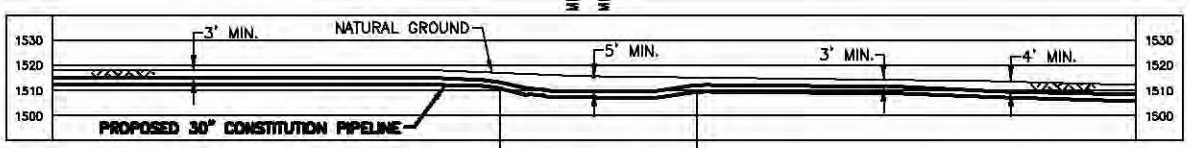
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

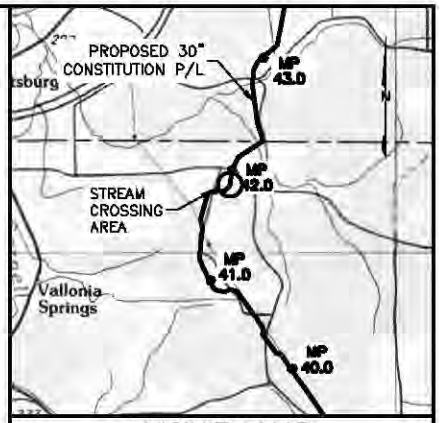
CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS BR-1S-S200 AND
BR-1S-S200A @ M.P. 41.76
TOWN OF SANFORD, BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1S-S200-1-D	SHEET 91 OF 214
WO: 1110415			





30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY COATING



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1S-S203	UNT to Cornell Creek	Intermittent	1	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-28-70/0001-43	ALIGNMENT SHEET

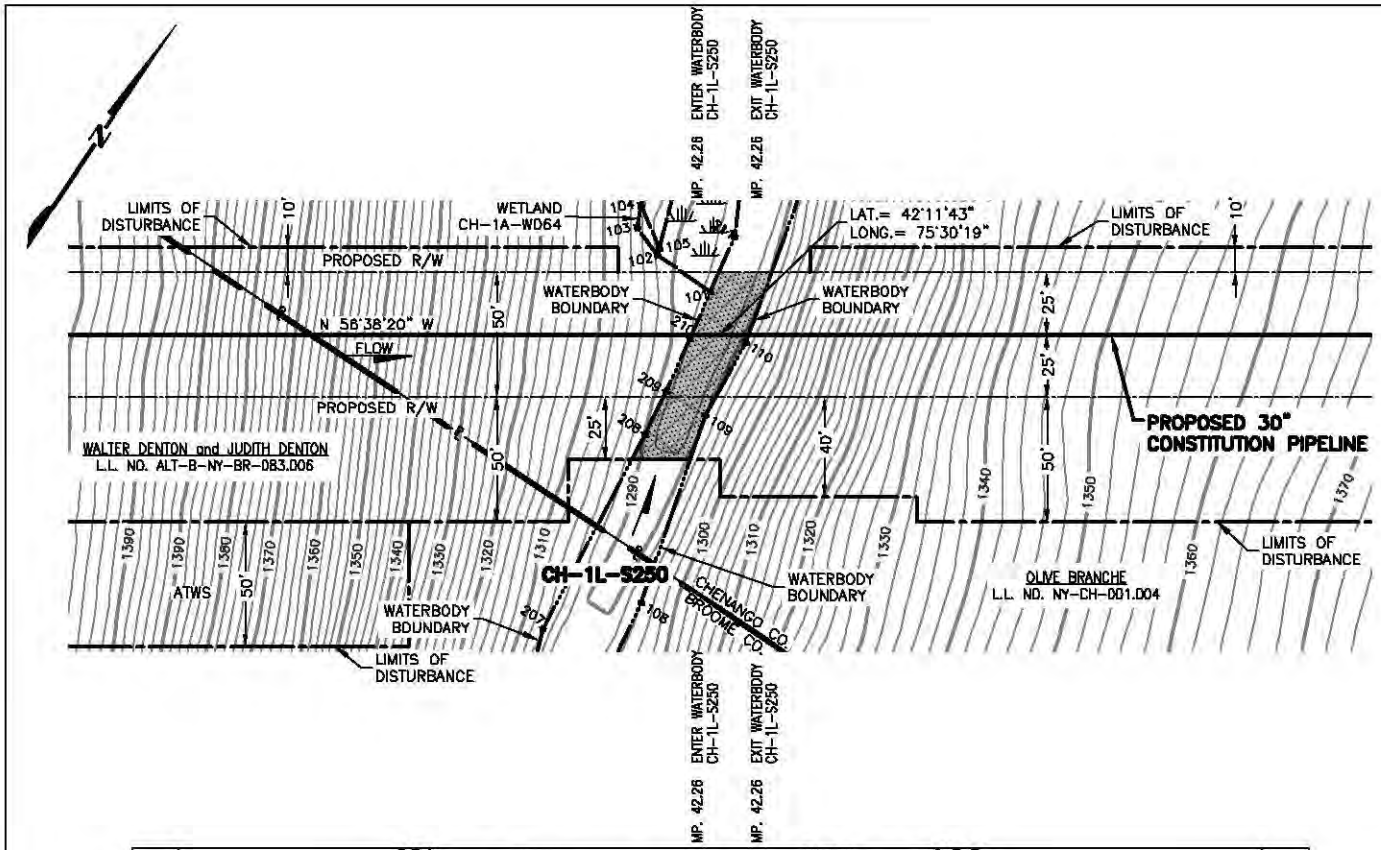
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-17-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

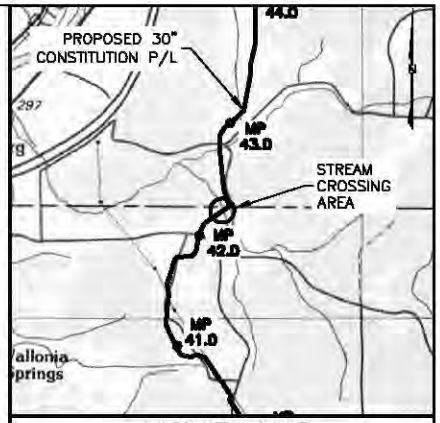
APPLICATION NO.: NAN-2012-00449-UBR

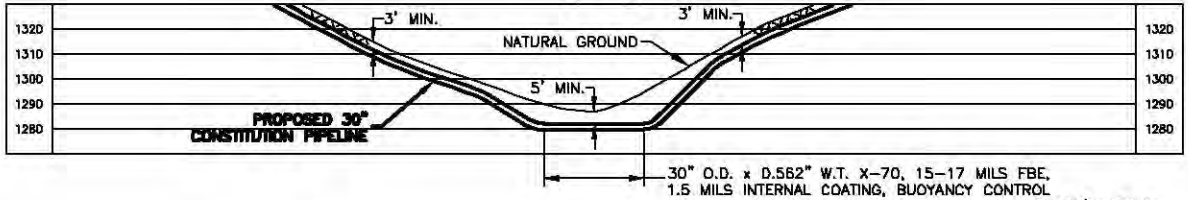
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1S-S203 @ M.P. 41.85
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1S-S203-1-0	SHEET 92 OF 214
WO: 1110415			







PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1L-S250	UNT to Cornell Creek	Perennial	23	0.04	C (TS)	Y	(TS)	Dry

TROY L. KENNEDY JR
N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-43	ALIGNMENT SHEET

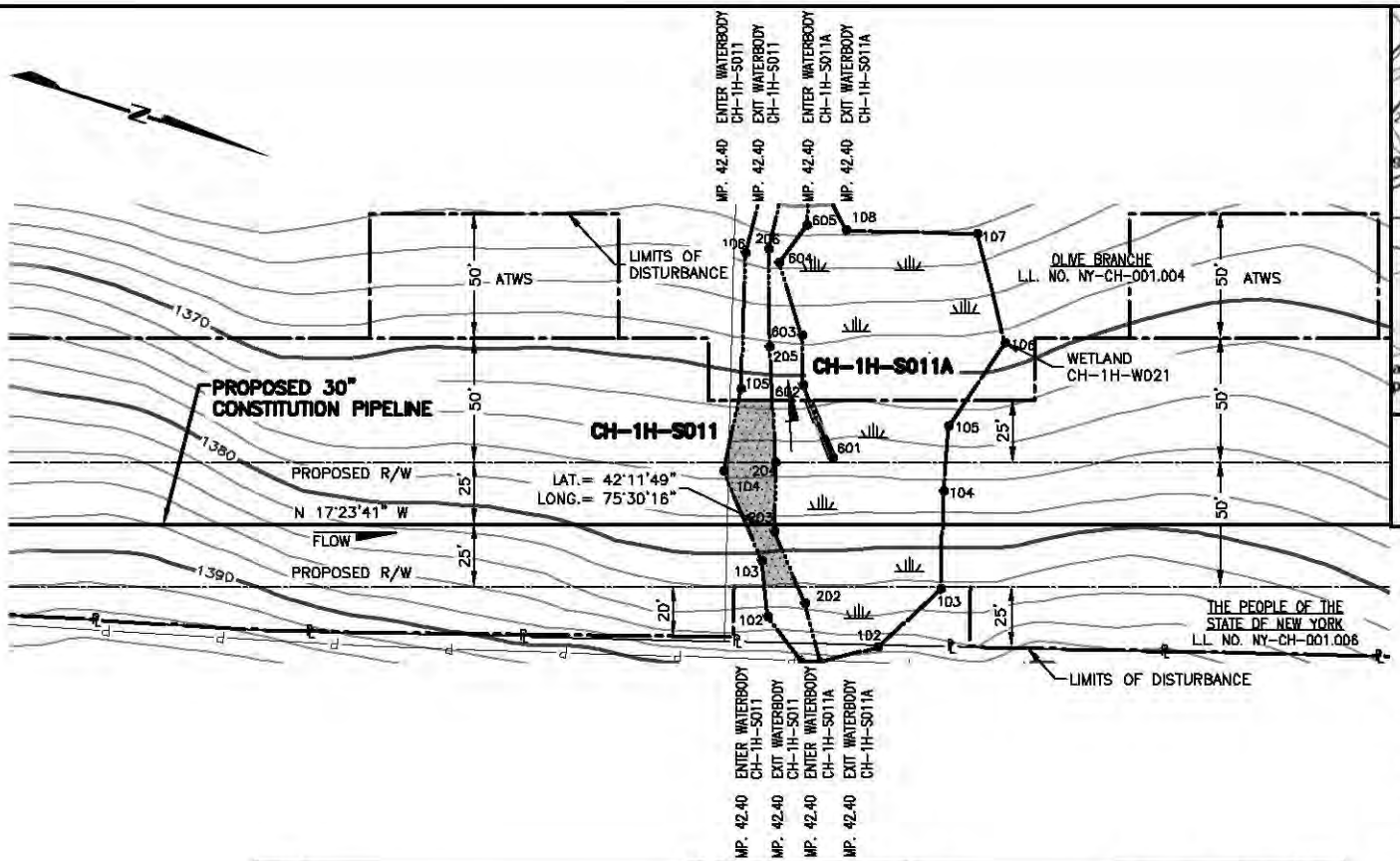
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-17-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-30-13	GIE	ISSUED FOR USE	1110415		

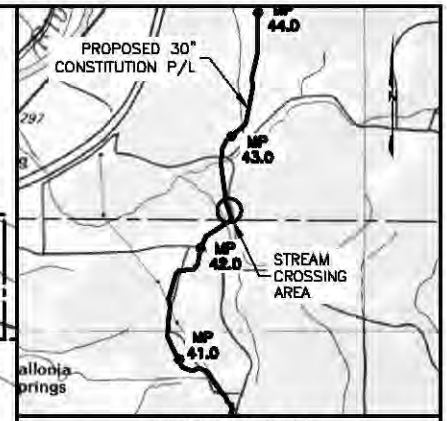
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1L-S250 @ M.P. 42.26
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1L-S250-1-0	SHEET 93 OF 214
WO: 1110415			





VICINITY MAP

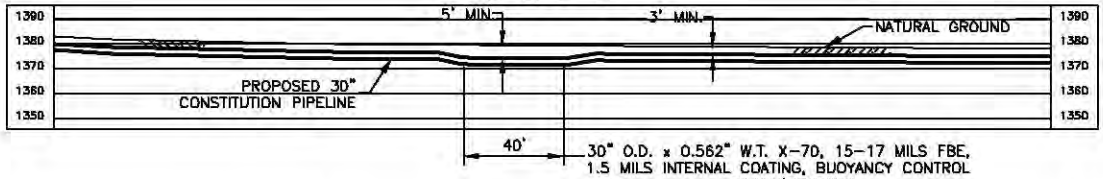
USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES .
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1H-S011	UNT to Cornell Creek	Perennial	11	0.023	C	N	N/A	Dry
CH-1H-S011A	UNT to Cornell Creek	Perennial	0	0.001	C	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-43	ALIGNMENT SHEET

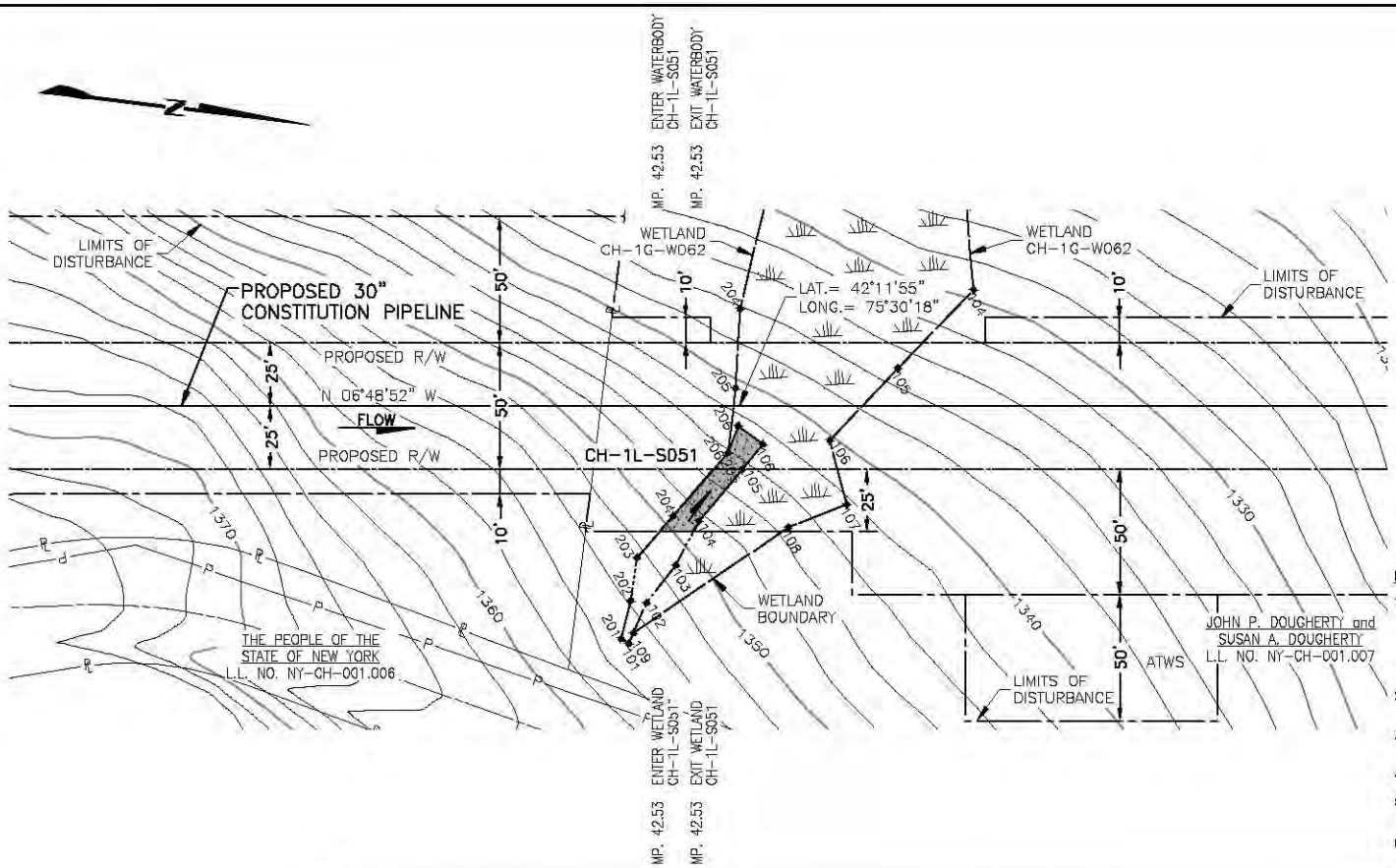
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-06-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-16-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
D	08-16-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-04-13	GIE	ISSUE FOR USE	1110415		

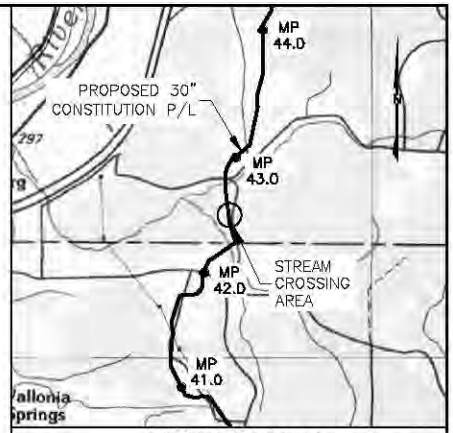
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1H-S011 AND CH-1H-S011A
@ M.P. 42.40
TOWN OF AFTON, CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-05-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1H-S011-1-2	SHEET 94 OF 214
WO: 1110415			





VICINITY MAP

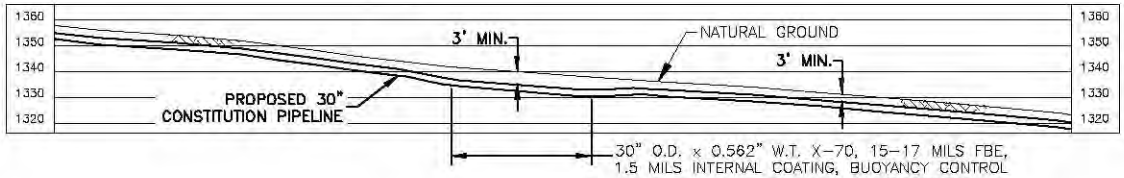
USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1L-SD51	Unt to Cornell Creek	Itermittent	0	0.01	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-43	ALIGNMENT SHEET
26-26-70/0001-44	ALIGNMENT SHEET

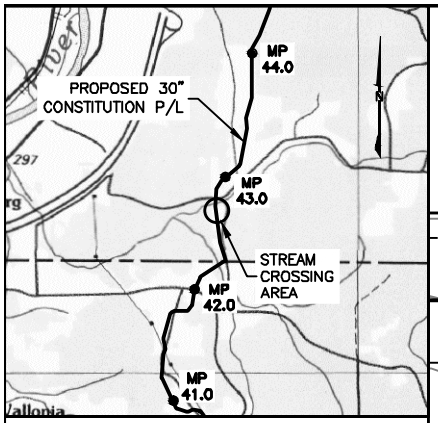
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-08-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-28-13	GIE	ISSUE FOR USE	1110415		

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WATERBODY CROSSING CH-1L-SD51 @ M.P. 42.53
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 09-27-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/CH-1L-SD51-1-0	SHEET 95 OF 214
WO: 1110415			

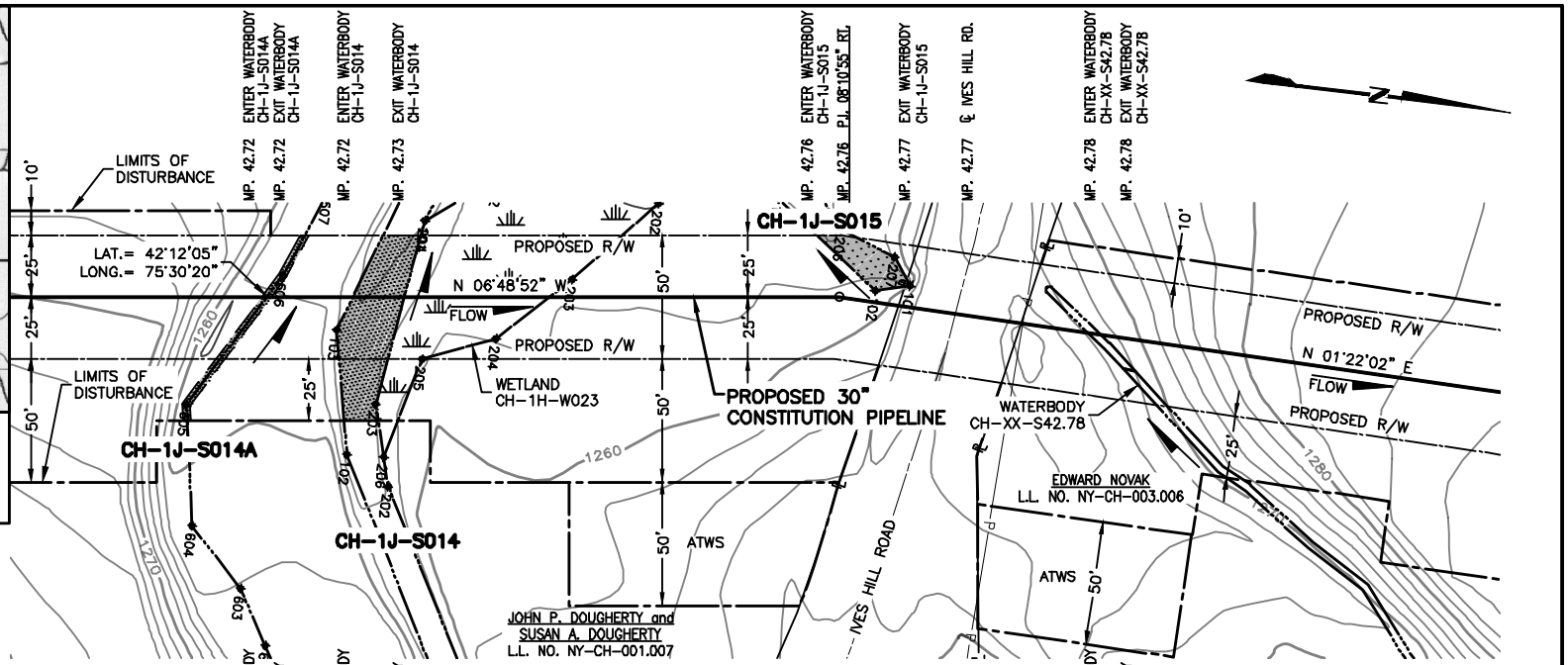


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

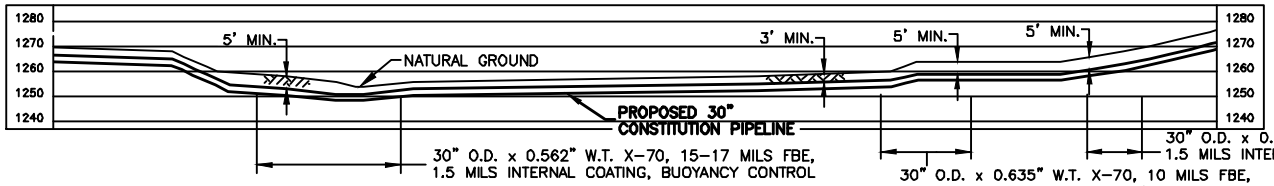
5000' 0 5000'

SCALE IN FEET



NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1J-S014A	UNT to Cornell Creek	EPHMERAL	1	0.01	C	N	N/A	DRY
CH-1J-S014	UNT to Cornell Creek	PERENNIAL	21	0.03	C	N	N/A	DRY
CH-1J-S015	UNT to Cornell Creek	PERENNIAL	0	0.01	C	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

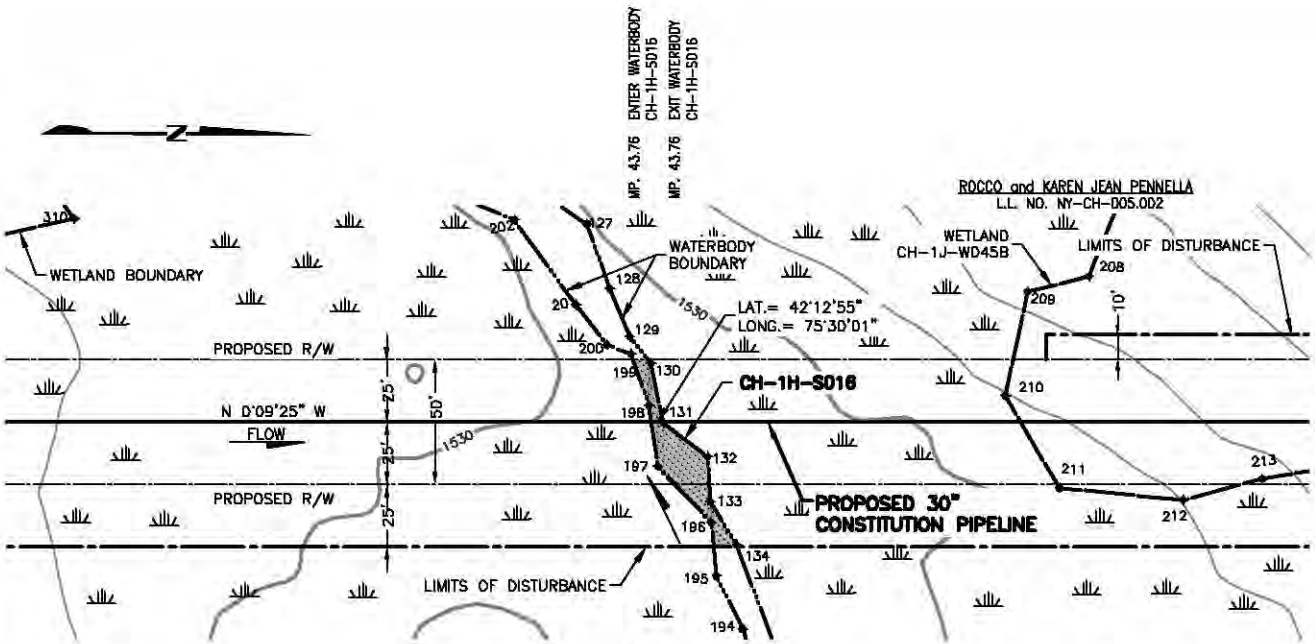
CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS CH-1J-S014A, CH-1J-S014
AND CH-1J- S015 @ M.P. 42.72
TOWN OF AFTON, CHENANGO COUNTY, NEW YORK

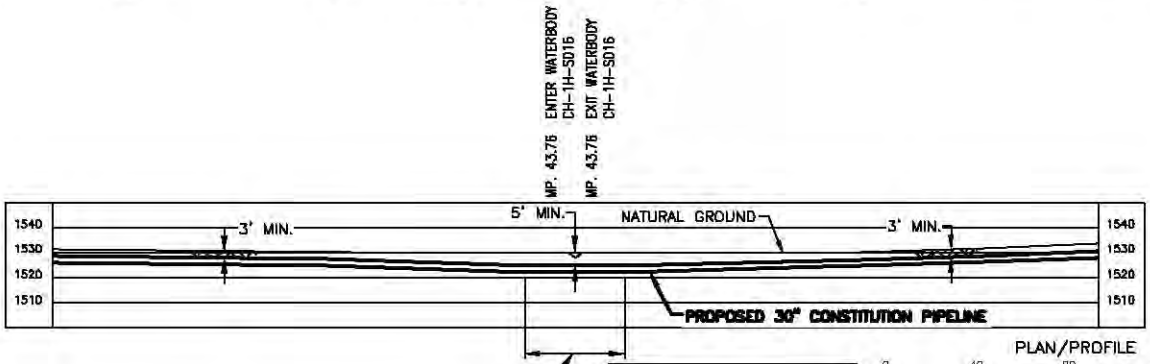
CONSTITUTION PIPELINE

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-44	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-05-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
3	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-28-13	GIE	ISSUE FOR USE	1110415		

DRAWN BY: GIE	DATE: 06-6-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-09-85/CH-1J-S014A-1-4	SHEET 96 OF 214
WO: 1110415			

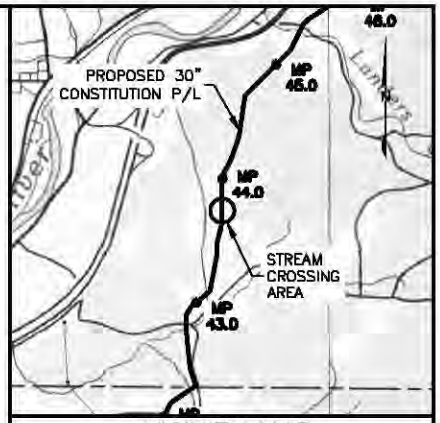




PLAN/PROFILE

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1H-S016	UNT to Cornell Creek	PERENNIAL	5	0.01	C	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-28-70/0001-45	ALIGNMENT SHEET

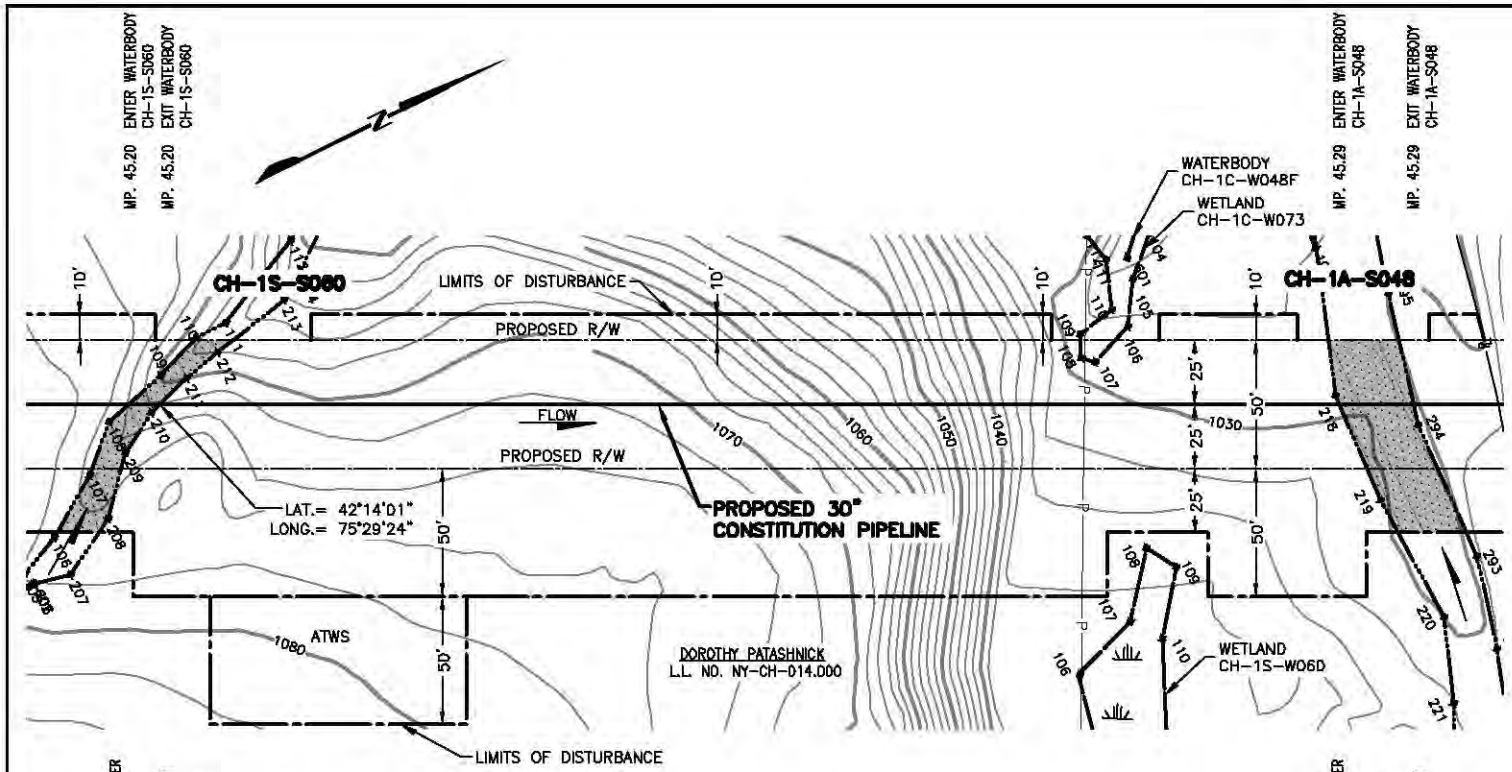
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-14-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-20-13	GIE	ISSUE FOR USE	1110415		
1	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GIE	ISSUE FOR USE	1110415		

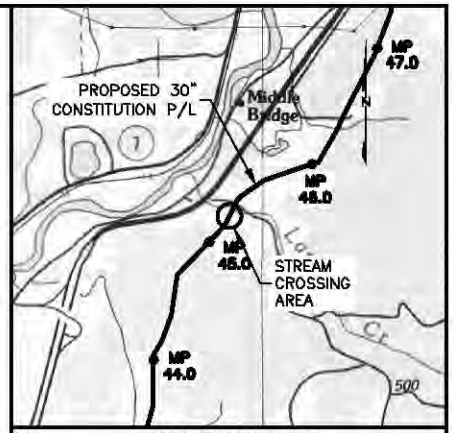
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1H-S016 @ M.P. 43.76
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-10-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1H-S016-1-2	SHEET 97 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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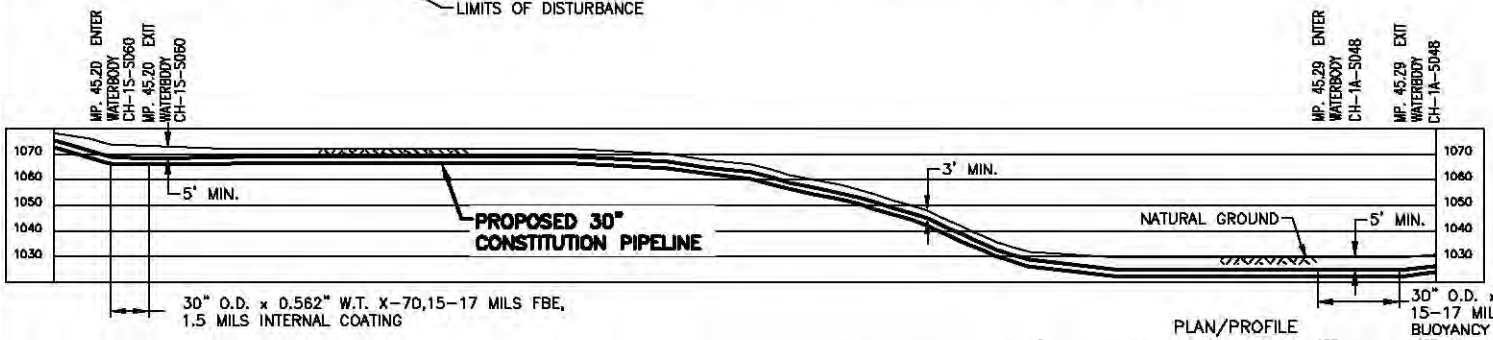


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1S-S060	UNT to Landers Creek	Intermittent	12	0.02	D	N	N/A	DRY CROSSING
CH-1A-S048	UNT to Landers Creek	Perennial	29	0.00	C(TS)	Y	TS	CONVENTIONAL

TROY L. KENNEDY JR

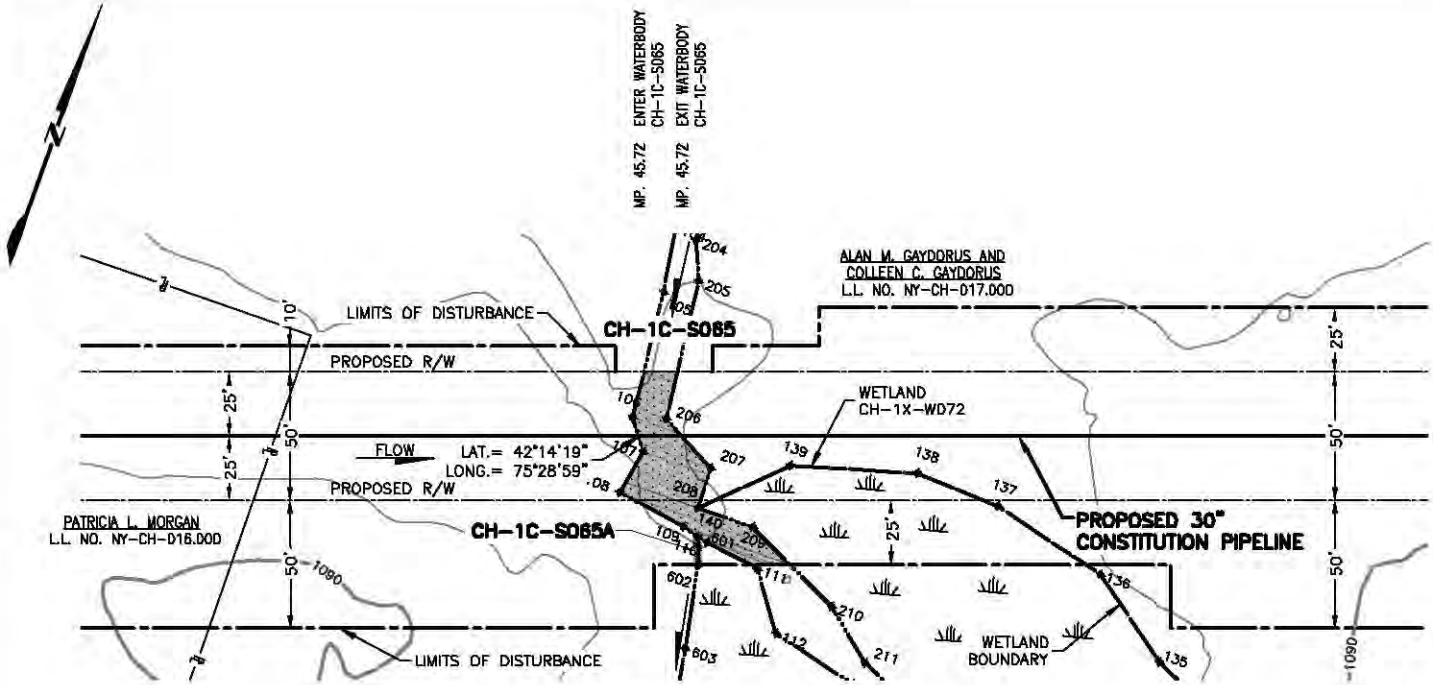
N.Y. PROFESSIONAL ENGINEER
NO. 69074

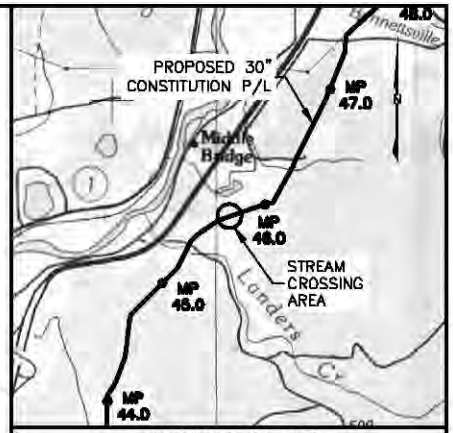
DRAWING NO.	REFERENCE TITLE
26-26-70/0001-46	ALIGNMENT SHEET

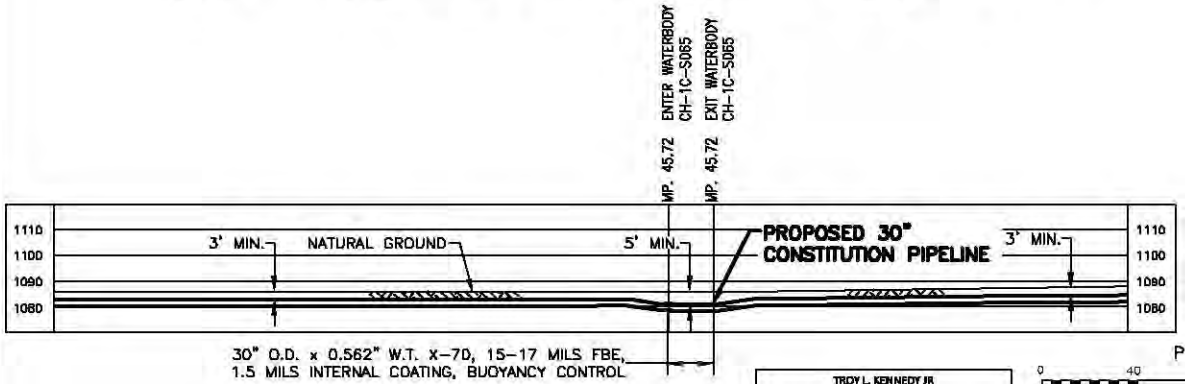
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-09-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-15-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-28-13	GIE	ISSUE FOR USE	1110415		

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1S-S060 AND CH-1A-S048 @ M.P. 45.20
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-09-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1S-S060-1-0	SHEET 98 OF 214
WO: 1110415			







PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1C-S065	Unt to Susquehanna River	Ephemeral	17	0.04	D	N	N/A	Dry
CH-1C-S065A	Unt to Susquehanna River	Ephemeral	0	0.01	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-47	ALIGNMENT SHEET

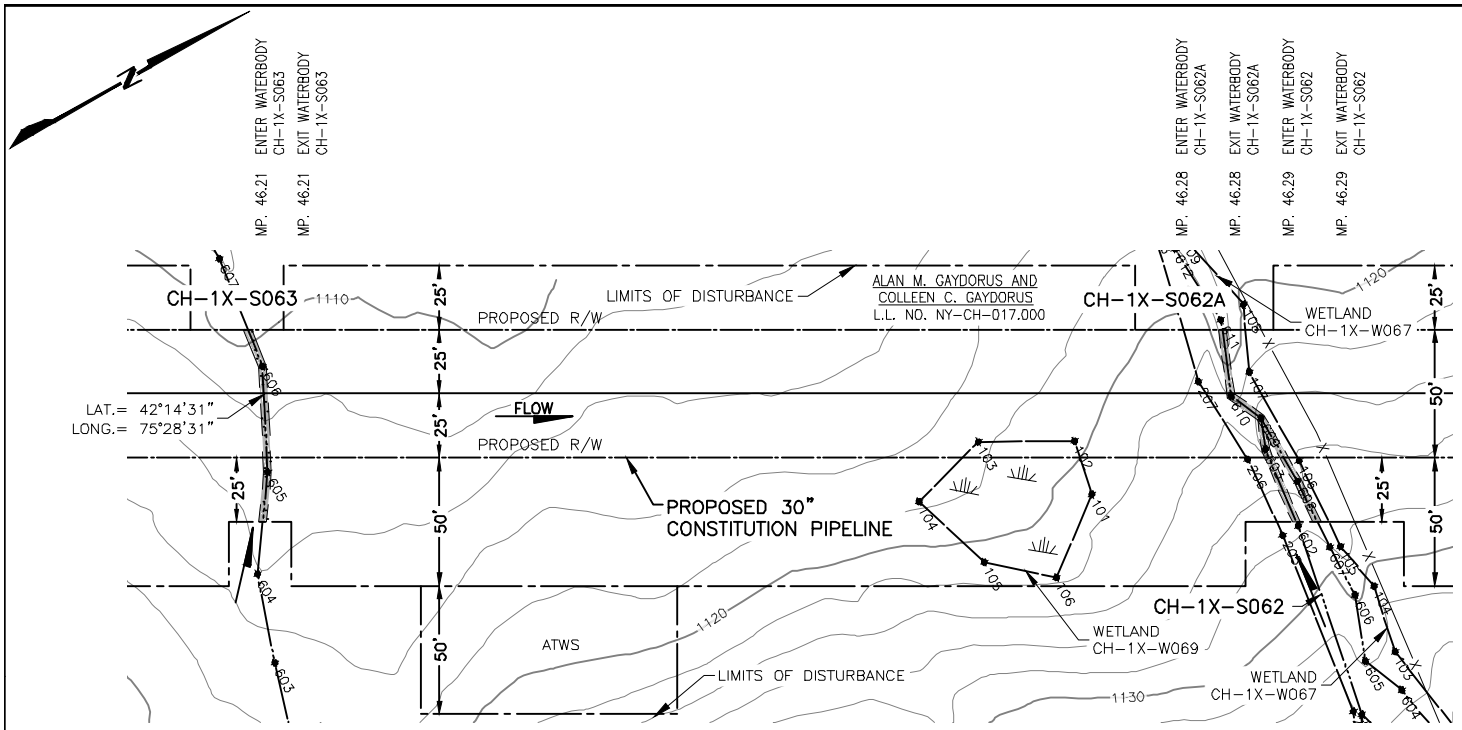
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-11-1	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

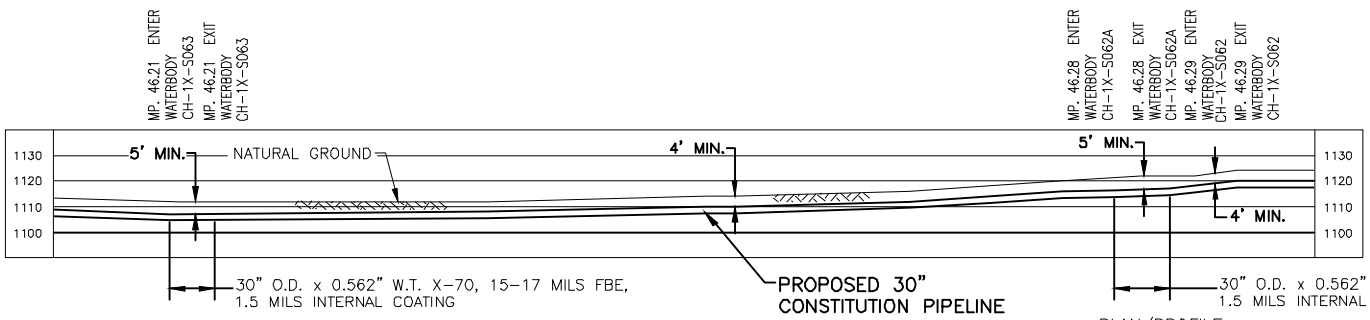
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1C-S065 AND CH-1C-S065A @ M.P. 45.72
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-11-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1C-S065-1-0	SHEET 99 OF 214
WO: 1110415			



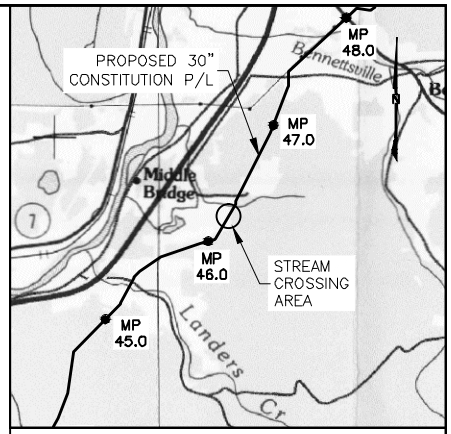


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1X-S063	Unt to Susquehanna River	Intermittent	3	0.01	C (T)	Y	T	Dry
CH-1X-S062	Unt to Susquehanna River	Intermittent	0	0.01	D	N	N/A	N/A
CH-1X-S062A	Unt to Susquehanna River	Intermittent	1	0.01	C (T)	Y	T	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-47	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-11-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUE FOR REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

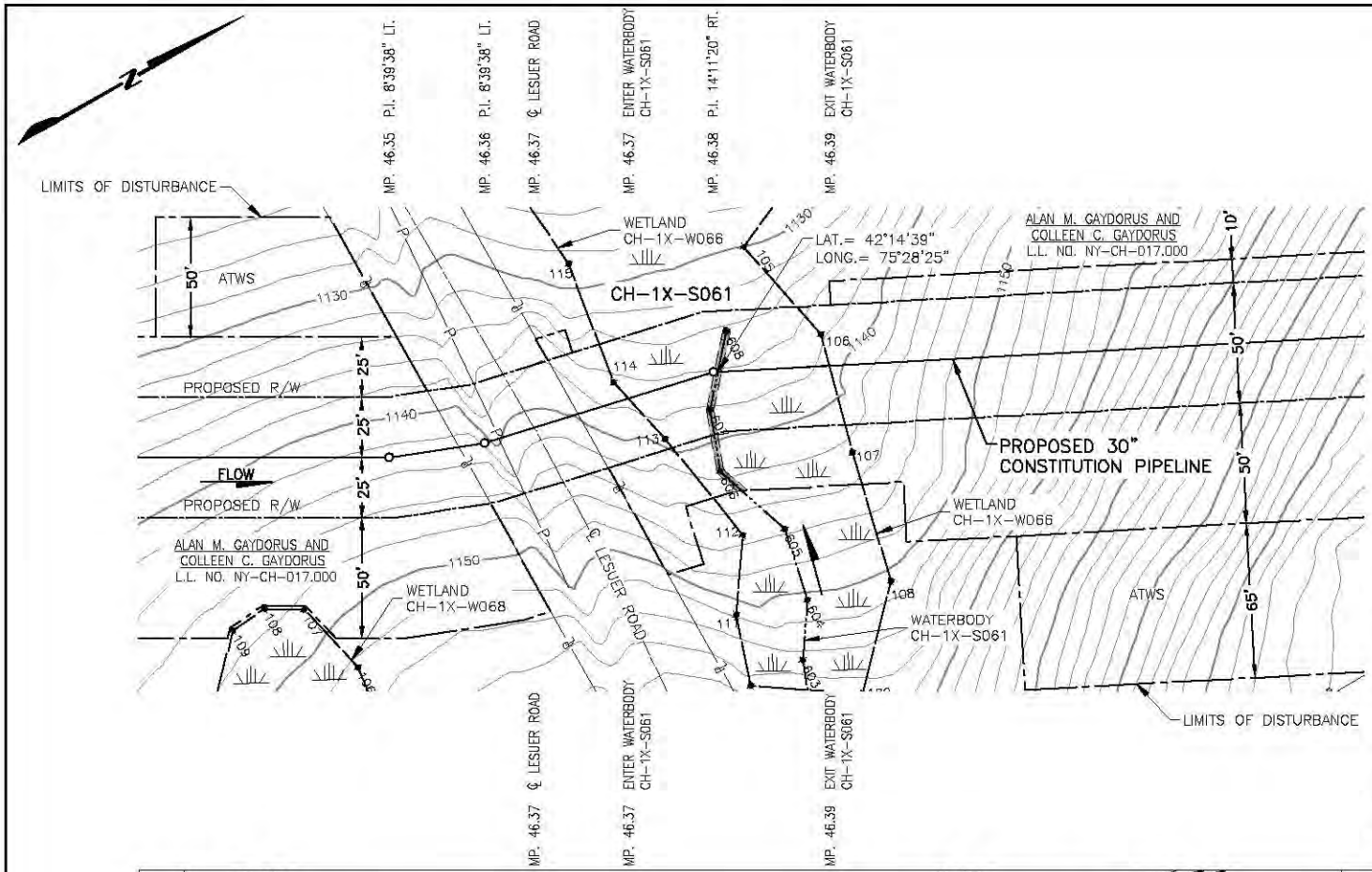
APPLICATION NO.: NAN-2012-00449-UBR

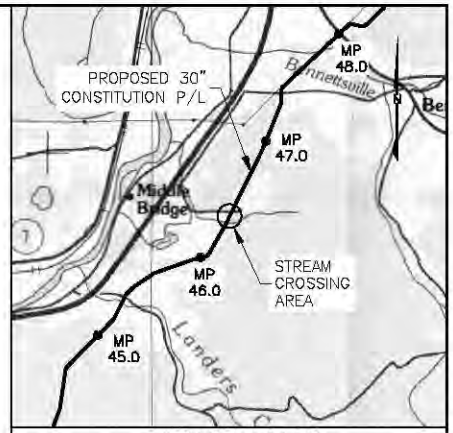
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1X-S063, CH-1X-S062, CH-1X-S062A @ M.P. 46.21
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-11-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1X-S063-1-0	SHEET 100 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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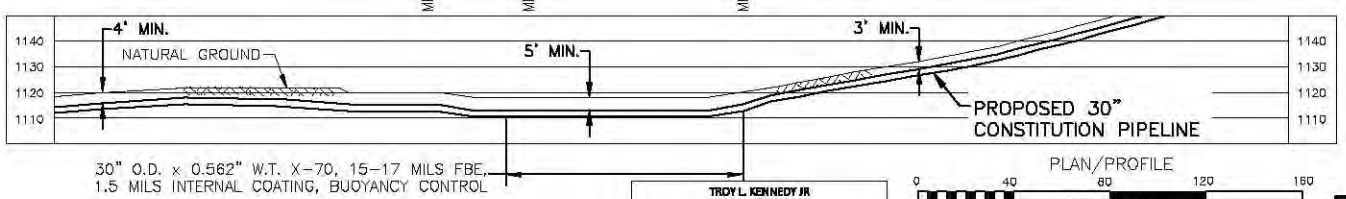


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1X-S061	Unt to Susquehanna River	Ephemeral	85	0.12	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-47	ALIGNMENT SHEET

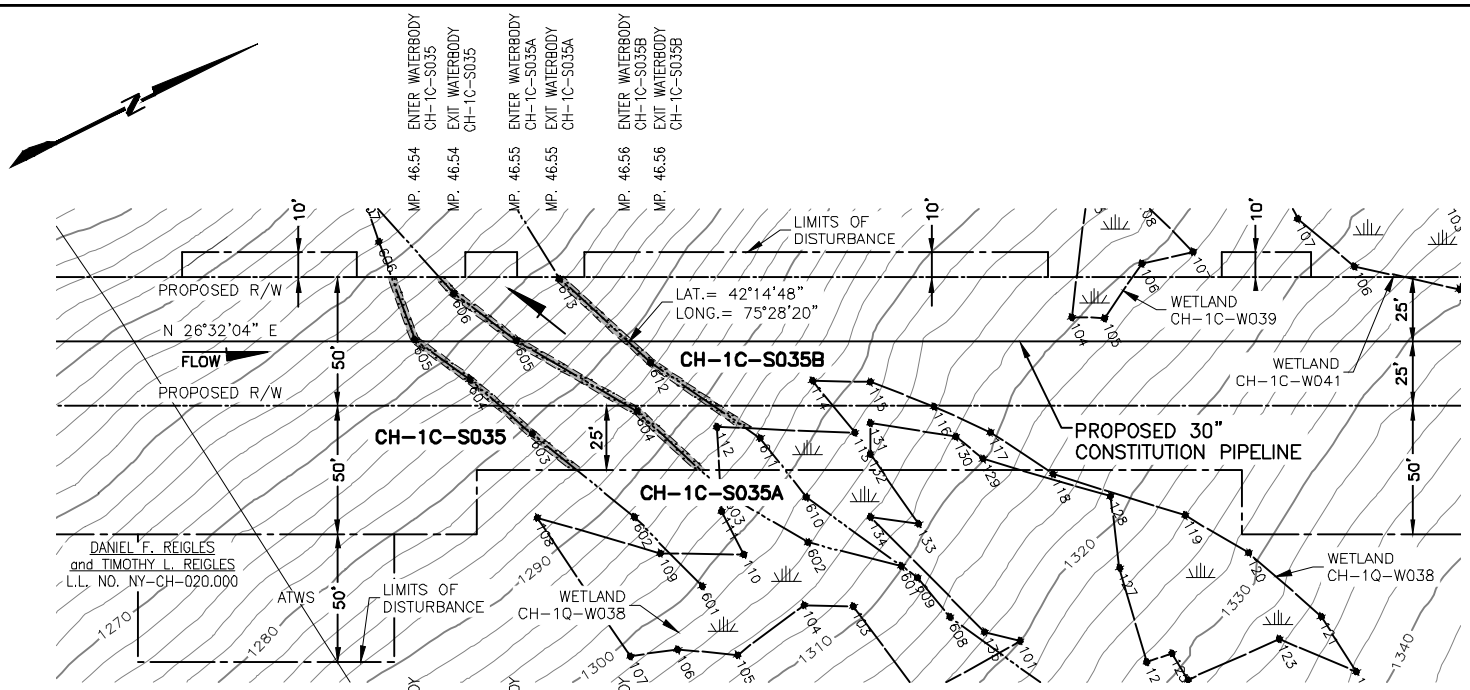
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-12-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-27-13	GIE	ISSUE FOR USE	1110415		

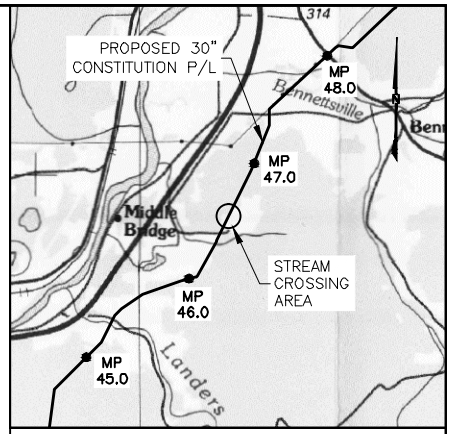
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1X-S061 @ M.P. 46.37
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-12-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/CH-1X-S061-1-0	SHEET 101 OF 214
WO: 1110415			



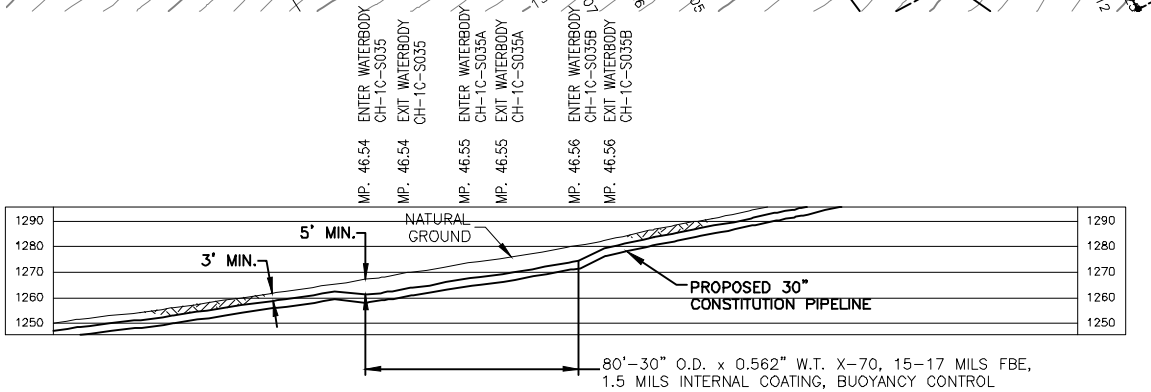


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1C-S035	UNT to Susquehanna River	Intermittent	3	0.01	D	N	N/A	Dry
CH-1C-S035A	UNT to Susquehanna River	Intermittent	4	0.01	D	N	N/A	Dry
CH-1C-S035B	UNT to Susquehanna River	Intermittent	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-48	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUED FOR USE	1110415		
1	09-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-04-13	GIE	ISSUE FOR USE	1110415		

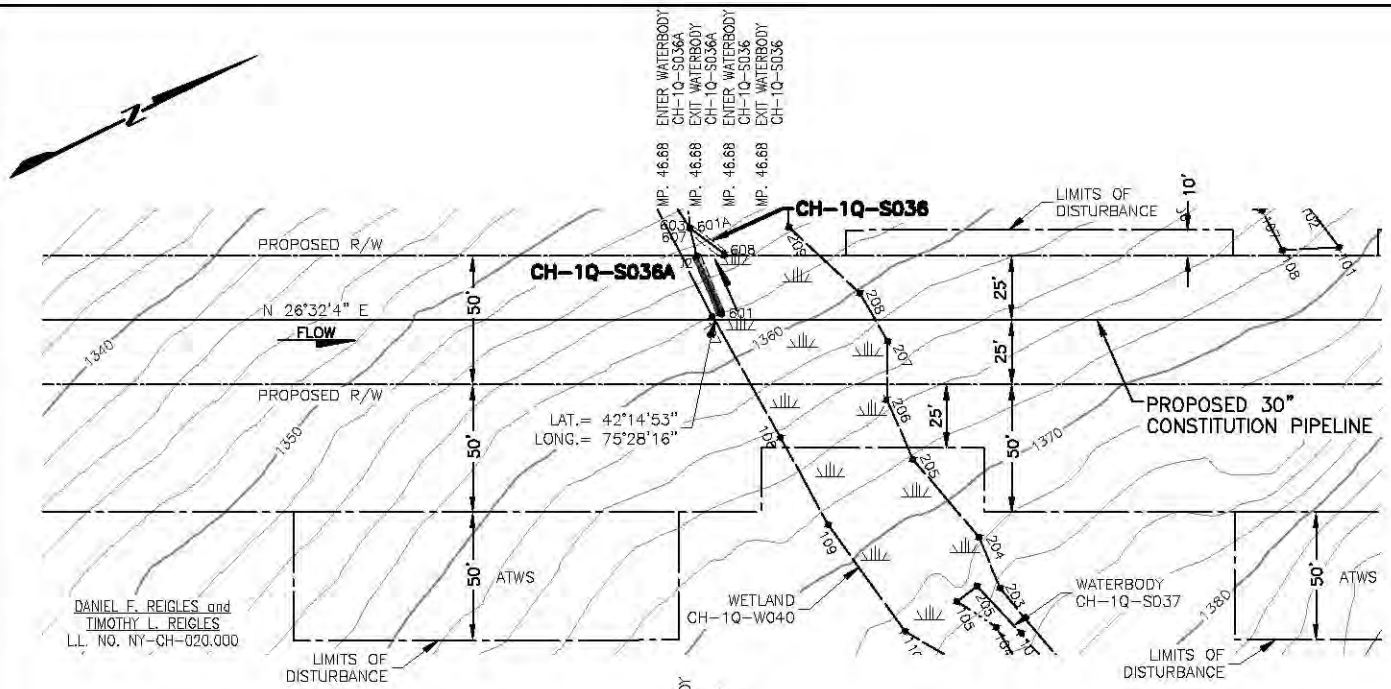
APPLICATION NO.: NAN-2012-00449-UBR

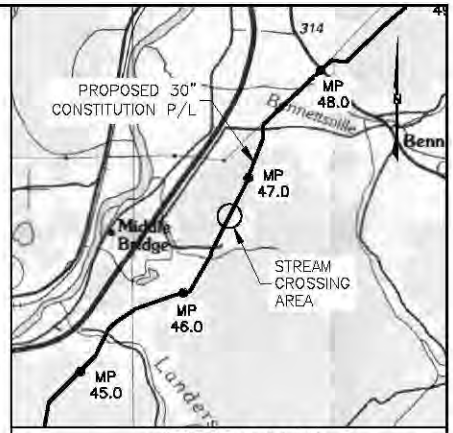
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS CH-1C-S035, CH-1C-S035A AND CH-1C-S035B @ M.P. 46.54
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06/07/13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1C-S035-1-2	SHEET 102 OF 214
WO: 1110415			



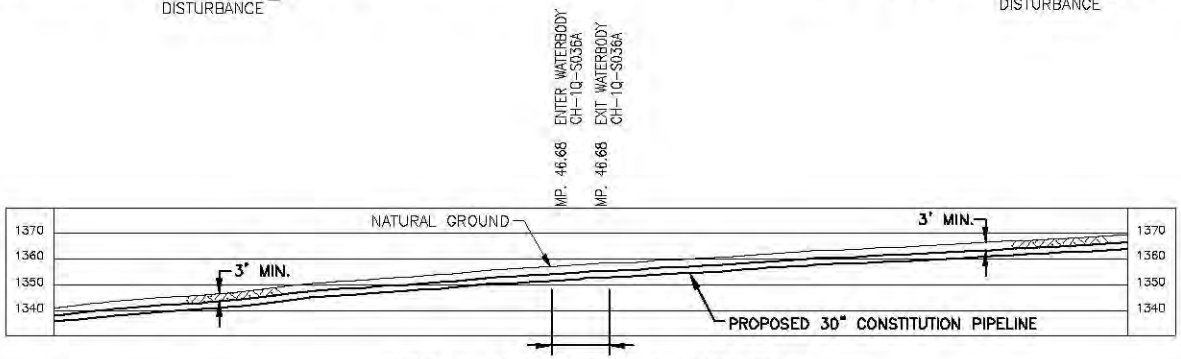


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1Q-S036A	UNT to Susquehanna River	Ephemeral	0	0.01	D	N	N/A	N/A
CH-1Q-S036	UNT to Susquehanna River	Ephemeral	0	0.01	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-48	ALIGNMENT SHEET

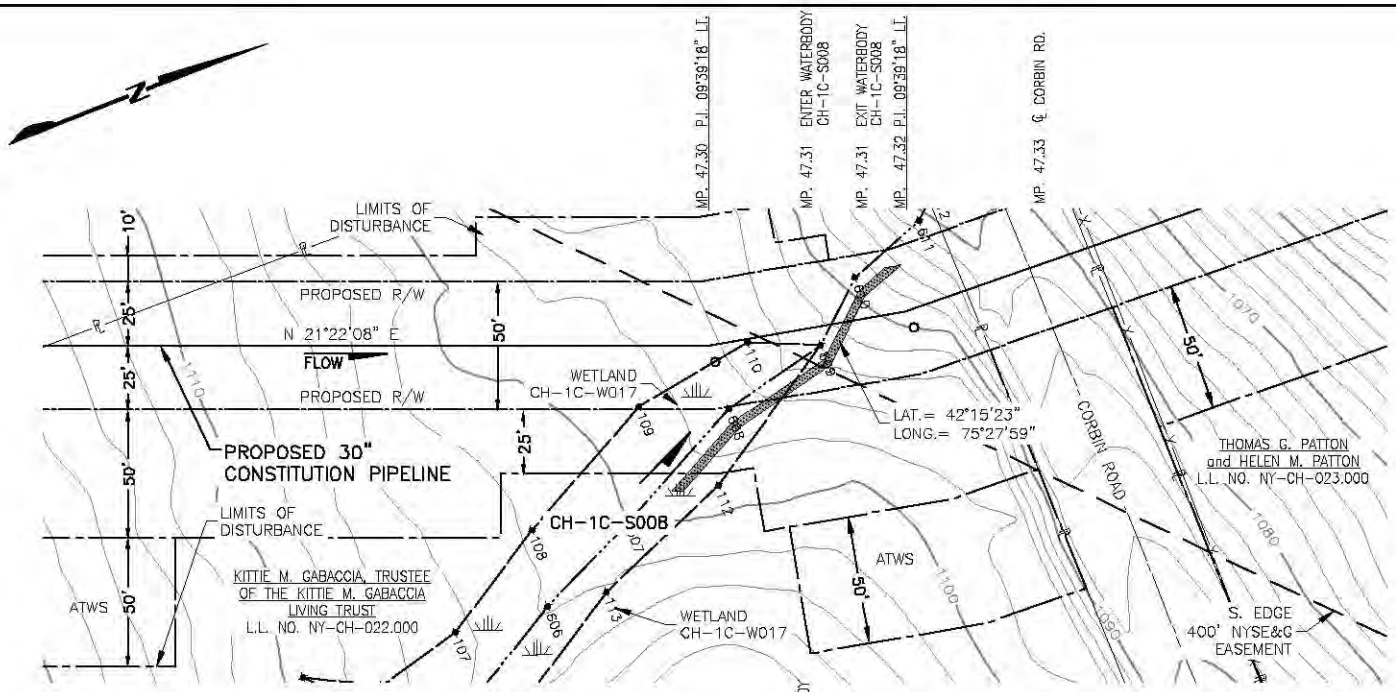
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110145		
1	09-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

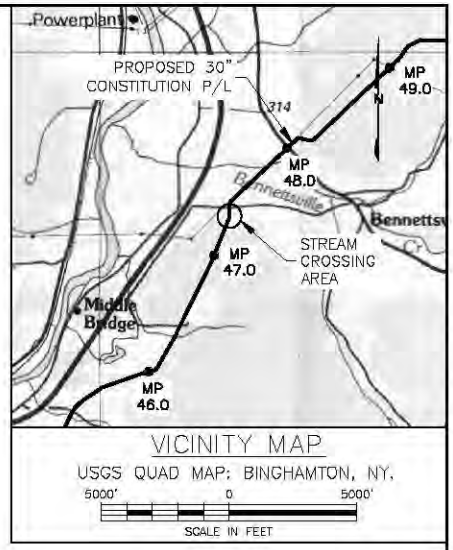
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS CH-1Q-S036A AND
CH-1Q-S036 @ M.P. 46.68
TOWN OF AFTON, CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-01-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1Q-S036A-1-3	SHEET 103 OF 214
WO: 1110415			



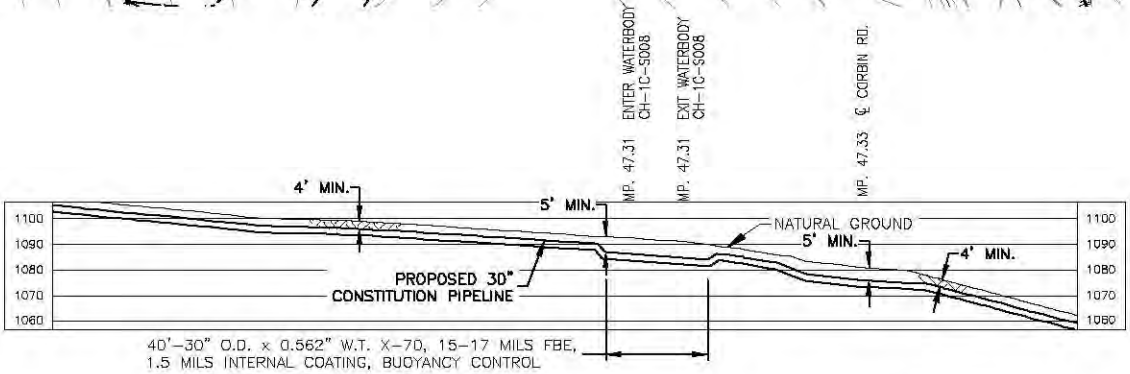


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1C-S008	UNT To Bennettsville Creek	Ephemeral	1	0.01	D	N	NA	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-48	ALIGNMENT SHEET

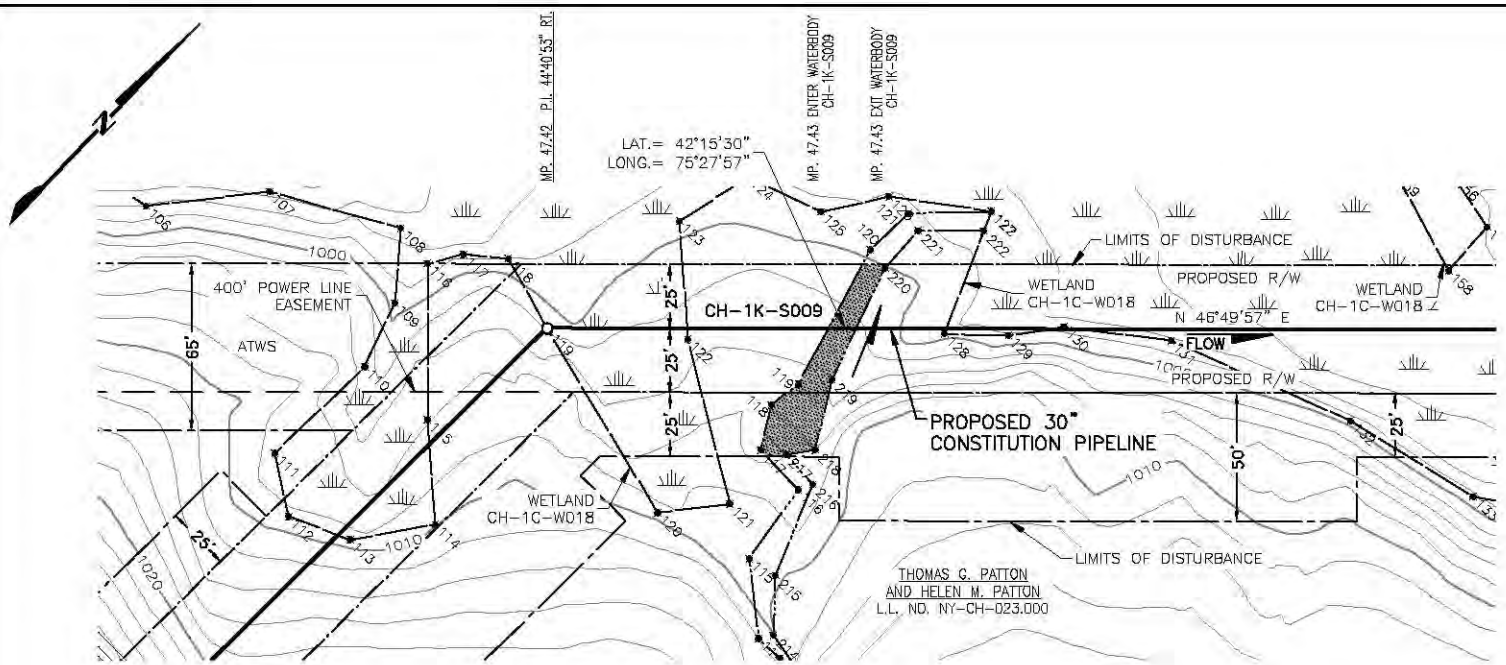
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED-ISSUED FOR USE	1110415		
B	08-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
1	09-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	ISSUE FOR USE	1110415		

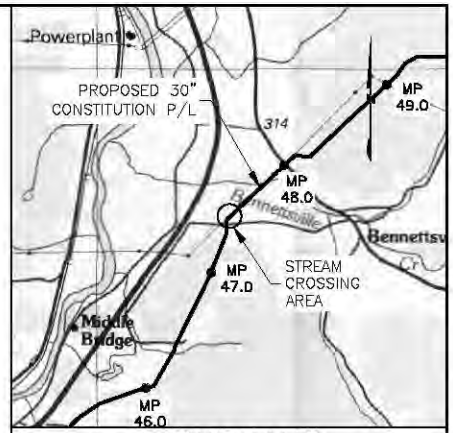
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1C-S008 @ M.P. 47.31
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-13-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1C-S008-1-3	SHEET 104 OF 214
WO: 1110415			



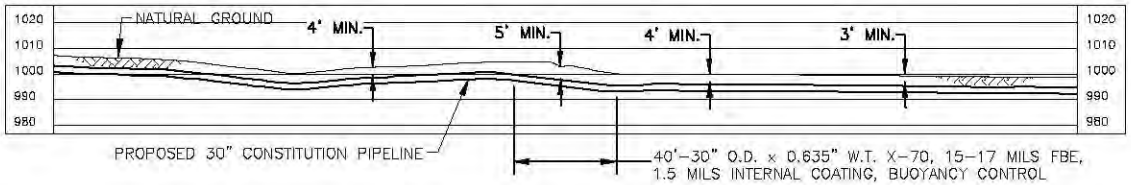


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1K-S009	UNT to Bennettsville Creek	Ephemeral	11	0.03	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-48	ALIGNMENT SHEET

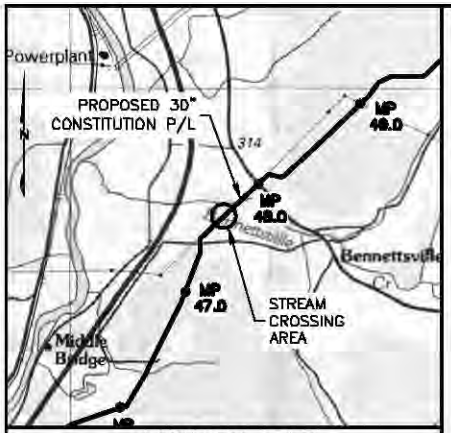
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-10-13	GIE	ISSUE FOR USE	1110415		
1	09-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-09-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-22-13	GIE	REVISED - ISSUED FOR USE	1110415		
4	10-28-13	GIE	ISSUE FOR USE	1110415		

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1K-S009 @ M.P. 47.43
TOWN OF AFTON
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 04-29-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/CH-1K-S009-1-4	SHEET 105 OF 214
WO: 1110415			

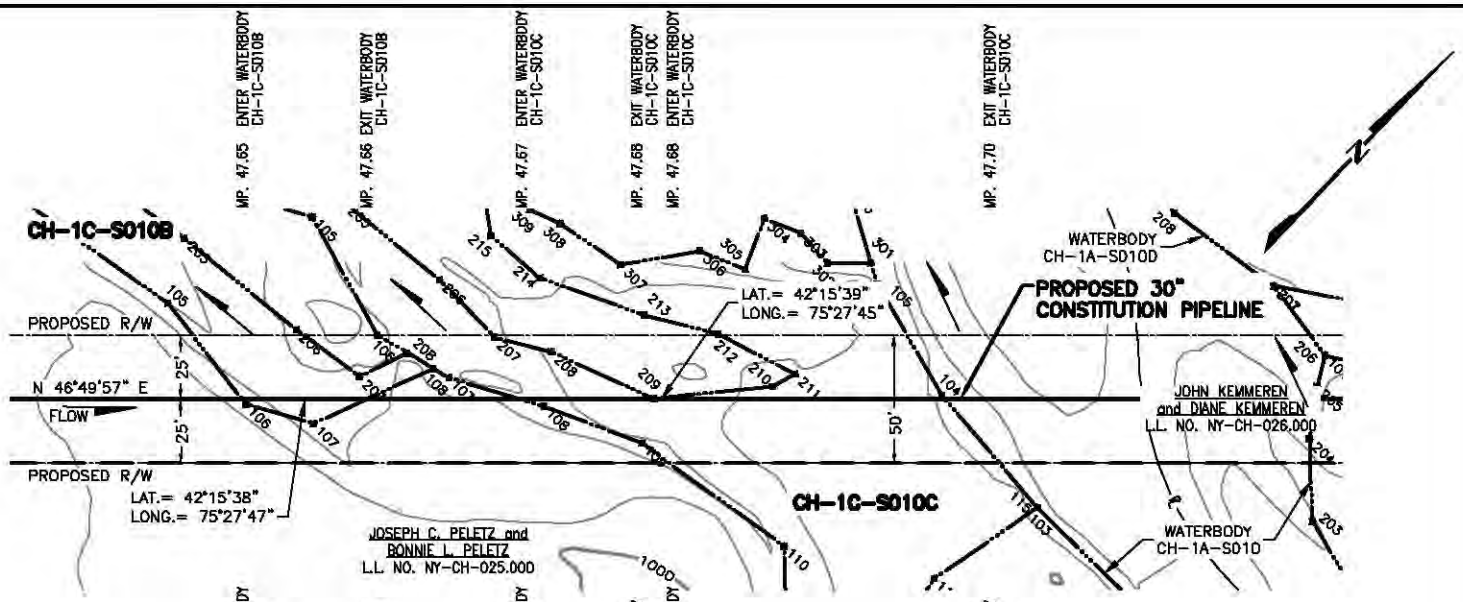


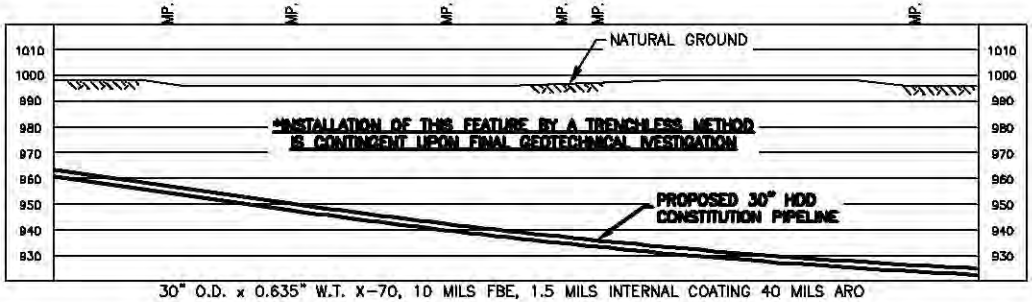
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





30" O.D. x 0.635" W.T. X-70, 10 MILS FBE, 1.5 MILS INTERNAL COATING 40 MILS ARO

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
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5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1C-S010B	Bennetsville Creek	Intermittent	48	0.00	C(T)	Y	(T)	HDD
CH-1C-S010C	Bennetsville Creek	Intermittent	165	0.00	C(T)	Y	(T)	HDD

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-49	ALIGNMENT SHEET

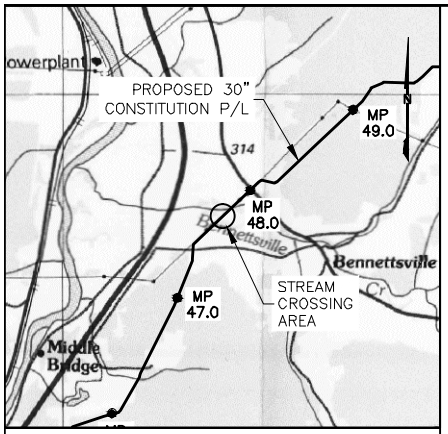
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUED FOR USE	1110415		
1	08-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-30-13	GIE	ISSUE FOR USE	1110415		

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1C-S010B AND
CH-1C-S010C @ M.P. 47.65
TOWN OF BAINBRIDGE, CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-16-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1C-S010B-OC-1-3	SHEET 106 OF 214
WO: 1110415			

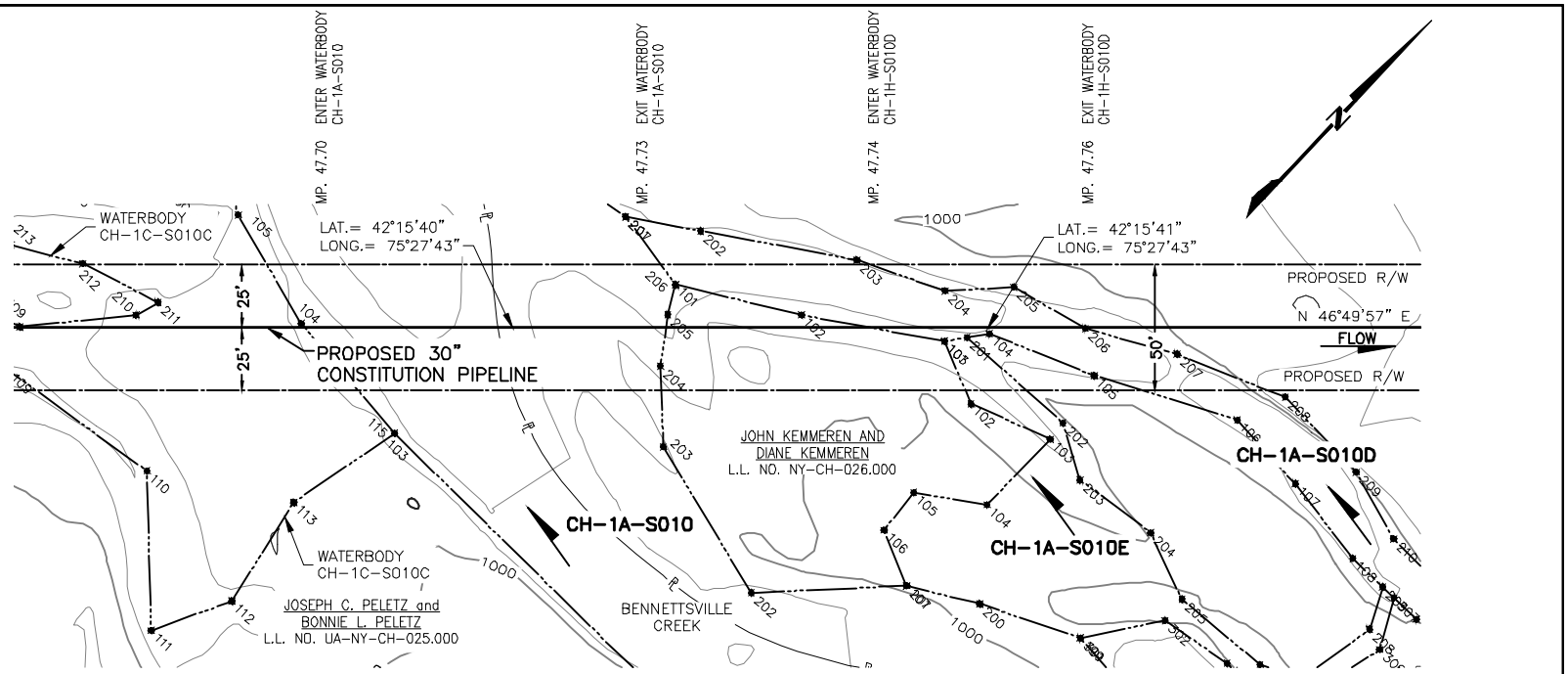


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



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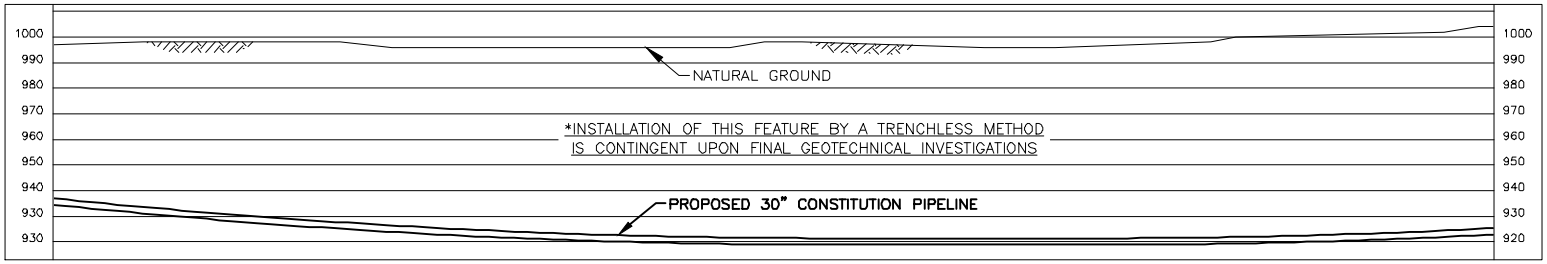


30" O.D. x 0.635" W.T. X-70, MILS FBE, 1.5 MILS INTERNAL COATING W/10 MILS FBE AND 40 MILS ARO

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1A-S010	Bennnettsville Creek	Perennial	144	0.00	C(T)	Y	(T)	HDD
CH-1A-S010D	Bennnettsville Creek	Perennial	85	0.00	C(T)	Y	(T)	HDD
CH-1A-S010E	Bennnettsville Creek	Perennial	0	0.00	C(T)	Y	(T)	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-49	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
D	08-20-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-14-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-30-13	GIE	ISSUE FOR USE	1110415		

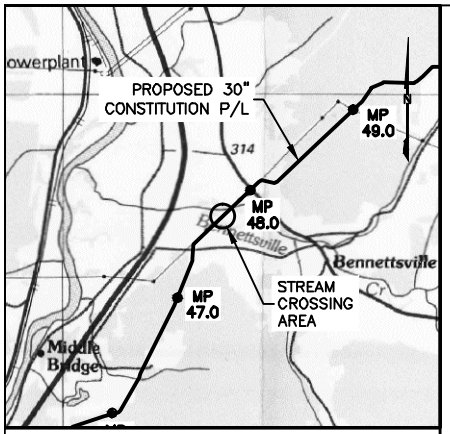
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1A-S010,
CH-1A-S010D AND CH-1A-S010E @ M.P. 47.70
TOWN OF BAINBRIDGE, CHENANGO COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-14-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1A-S010-1-3	SHEET 107 OF 214
WO: 1110415			

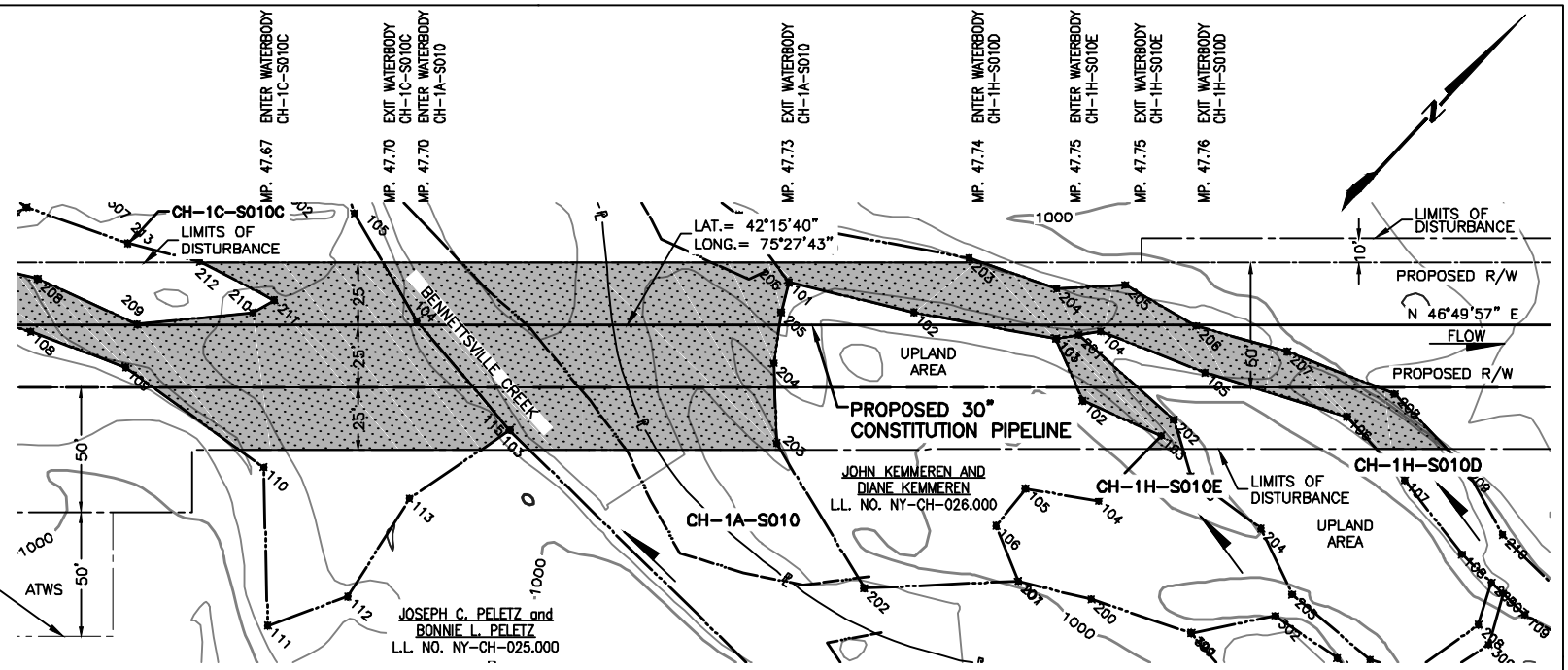


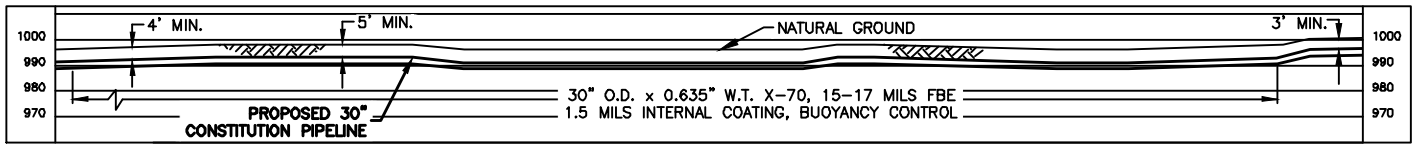
VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET





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CH-1A-S010	Bennnettsville Creek	Perennial	144	0.23	C(T)	Y	(T)	Dry
CH-1A-S010D	Bennnettsville Creek	Perennial	85	0.11	C(T)	Y	(T)	Dry
CH-1A-S010E	Bennnettsville Creek	Perennial	0	0.02	C(T)	Y	(T)	Dry
CH-1C-S010B	Bennnettsville Creek	Intermittent	48	0.04	C(T)	Y	(T)	Dry
CH-1C-S010C	Bennnettsville Creek	Intermittent	165	0.22	C(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-49	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-23-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

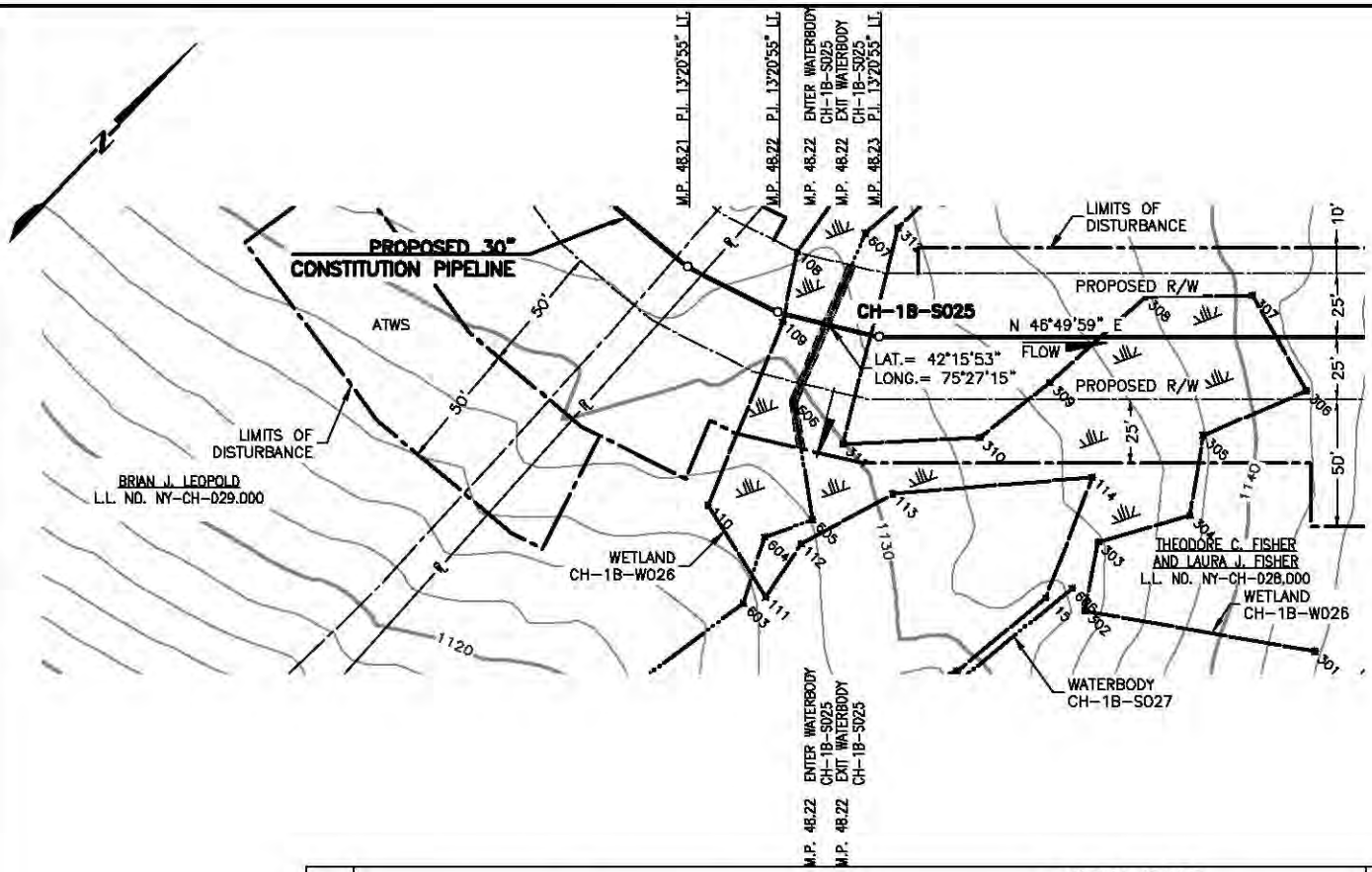
APPLICATION NO.: NAN-2012-00449-UBR

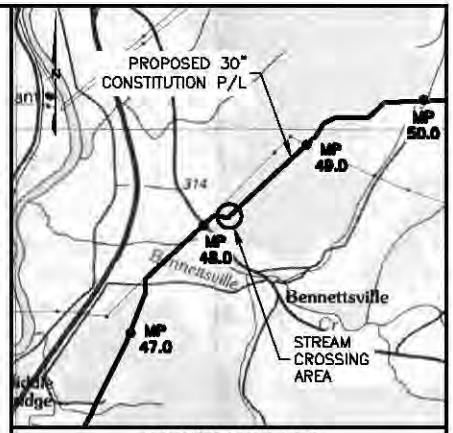
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1A-S010,CH-1C-S010B,CH-1C-S010C
CH-1H-S010D AND CH-1H-S010E @ M.P. 47.70
TOWN OF BAINBRIDGE, CHENANGO COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-14-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1A-S010-OC-1-0	SHEET 107 OF 214
WO: 1110415			



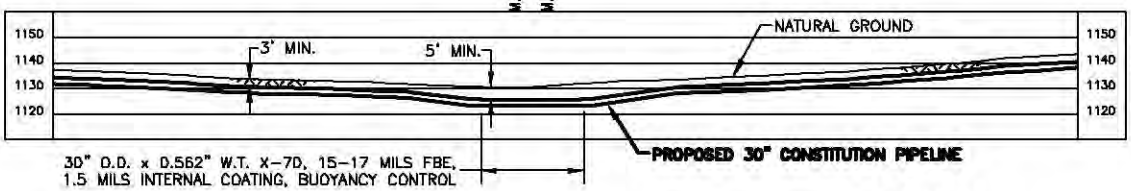


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
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NOTES:

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1B-S025	UNT to Bennettsville Creek	Intermittent	2	0.02	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-49	ALIGNMENT SHEET

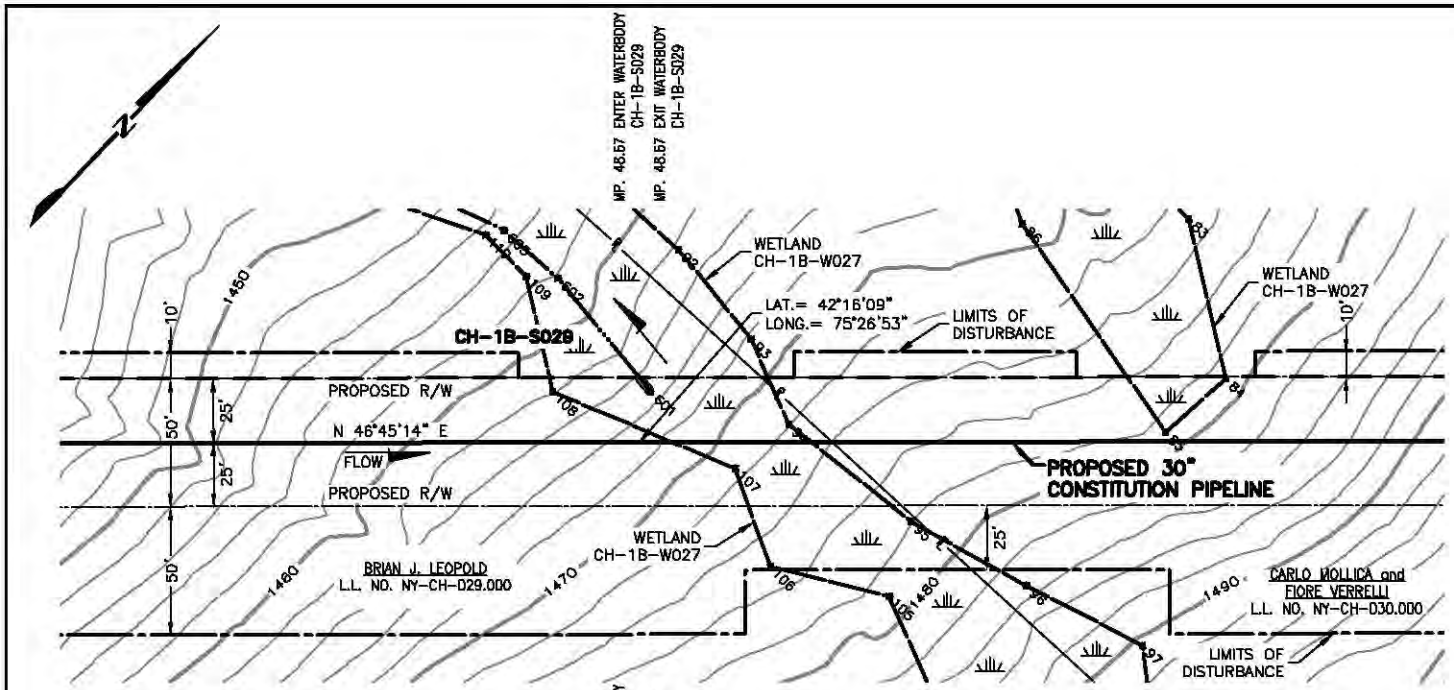
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
B	08-21-13	GIE	ISSUE FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

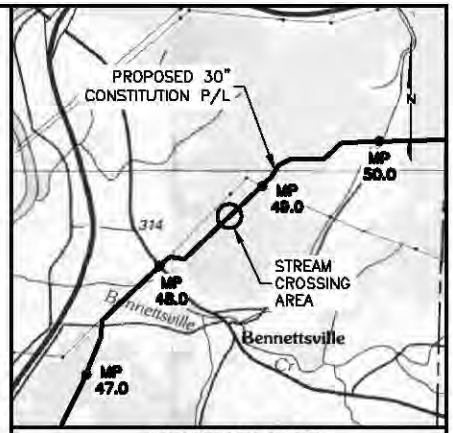
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1B-S025 @ M.P. 48.22
TOWN OF BAINBRIDGE
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1B-S025-1-3	SHEET 108 OF 214
WO: 1110415			



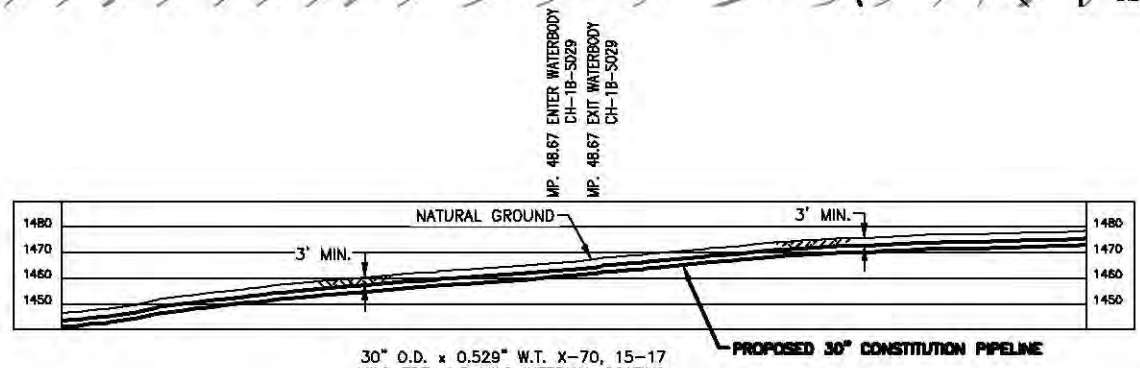


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1B-S029	UNT to Bennettsville Creek	Intermittent	0	0.001	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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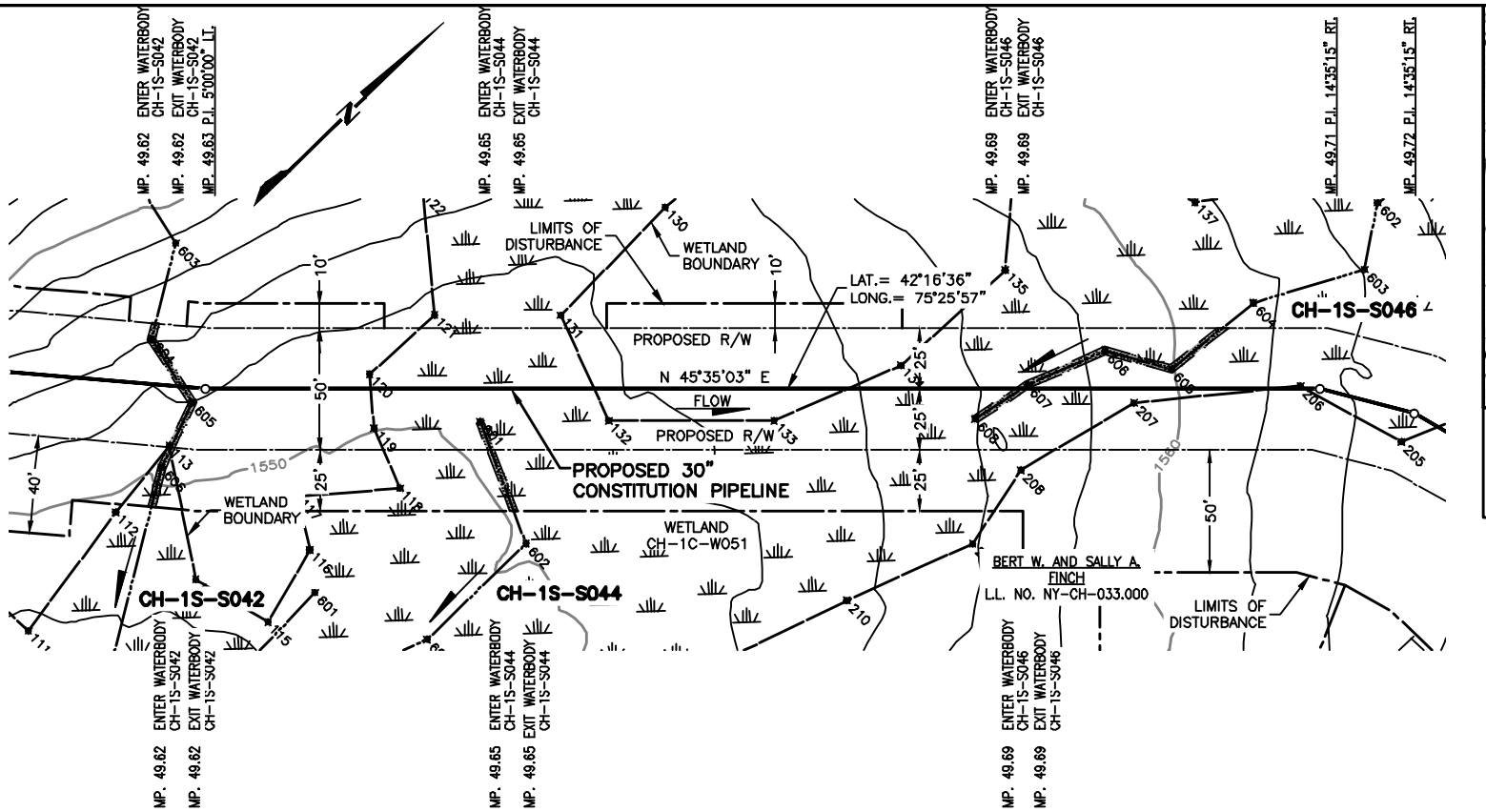
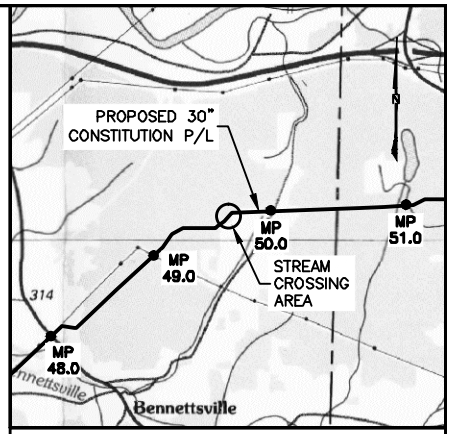
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING CH-1B-S029 @ M.P. 48.67
TOWN OF BAINBRIDGE
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-29-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1B-S029-1-2	SHEET 109 OF 214
WO: 1110415			



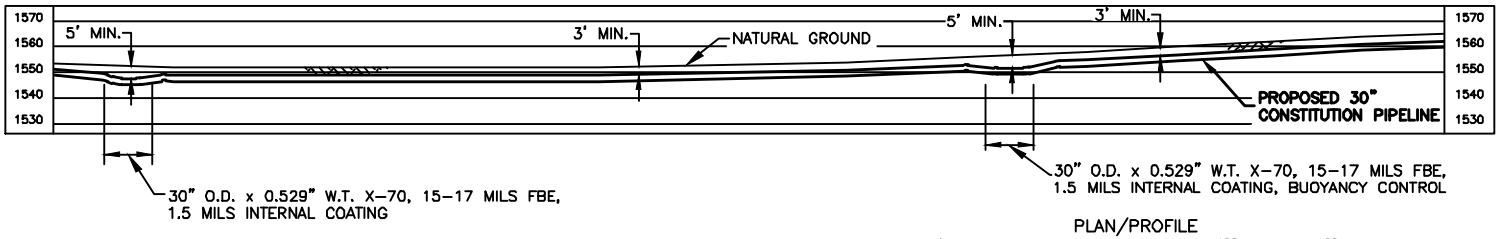


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

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SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1S-S042	UNT to Bennettsville Creek	Perennial	4	0.01	C	N	N/A	Dry
CH-1S-S044	UNT to Bennettsville Creek	Intermittent	0	0.01	C	N	N/A	N/A
CH-1S-S046	UNT to Bennettsville Creek	Intermittent	6	0.01	C	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-51	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-03-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	10-28-13	GIE	ISSUE FOR USE	1110415		

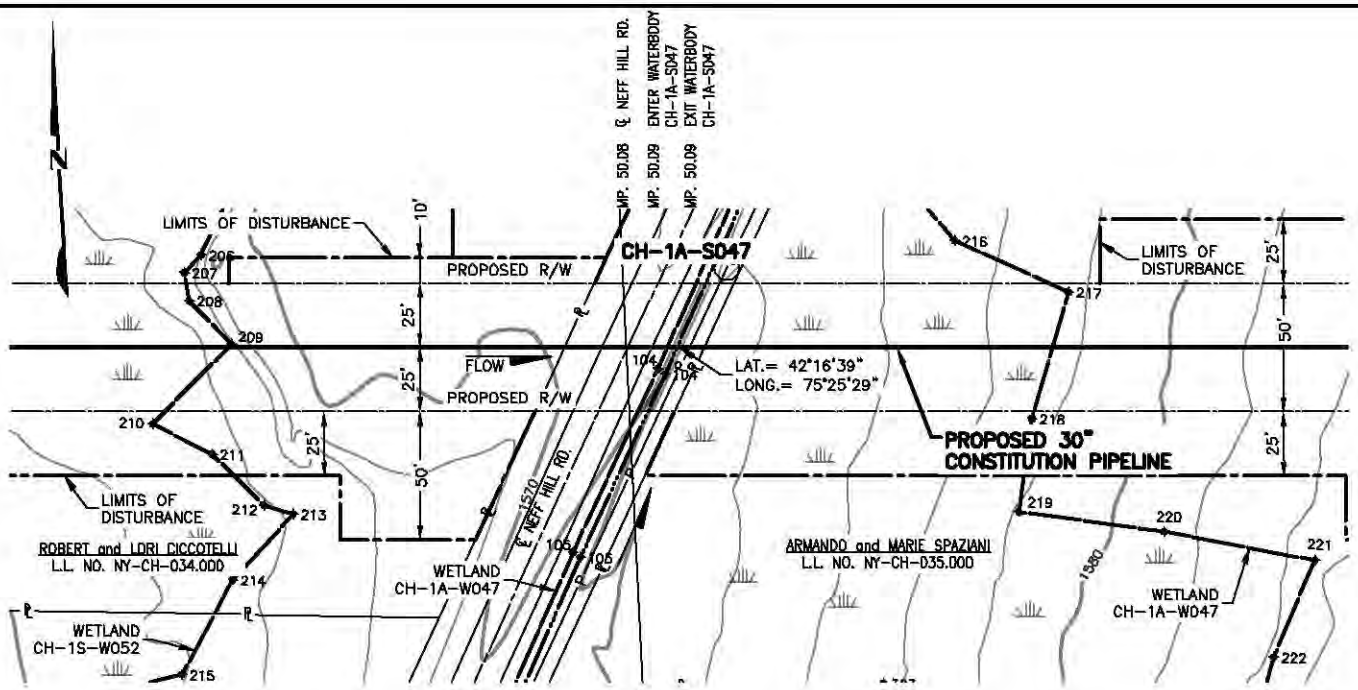
APPLICATION NO.: NAN-2012-00449-UBR

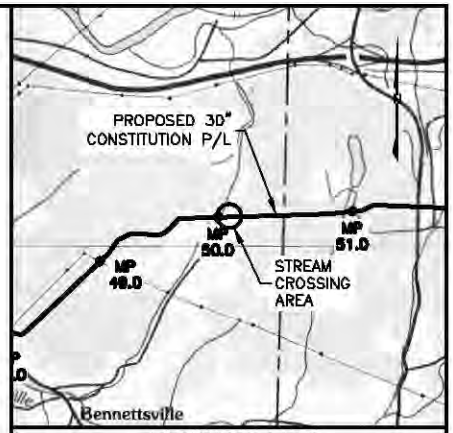
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS CH-1S-S042, CH-1S-S044 AND CH-1S-S046
@ M.P. 49.62 TOWN OF BAINBRIDGE
CHENANGO COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-03-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1S-S042-1-0	SHEET 110 OF 214
WO: 1110415			



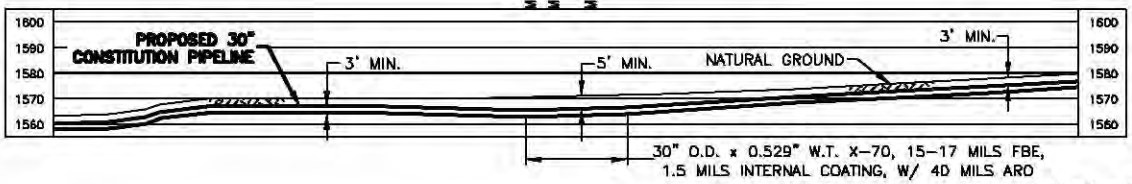


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1A-S047	Road Ditch	Ephemeral	2	0.01	N/A	N/A	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-51	ALIGNMENT SHEET

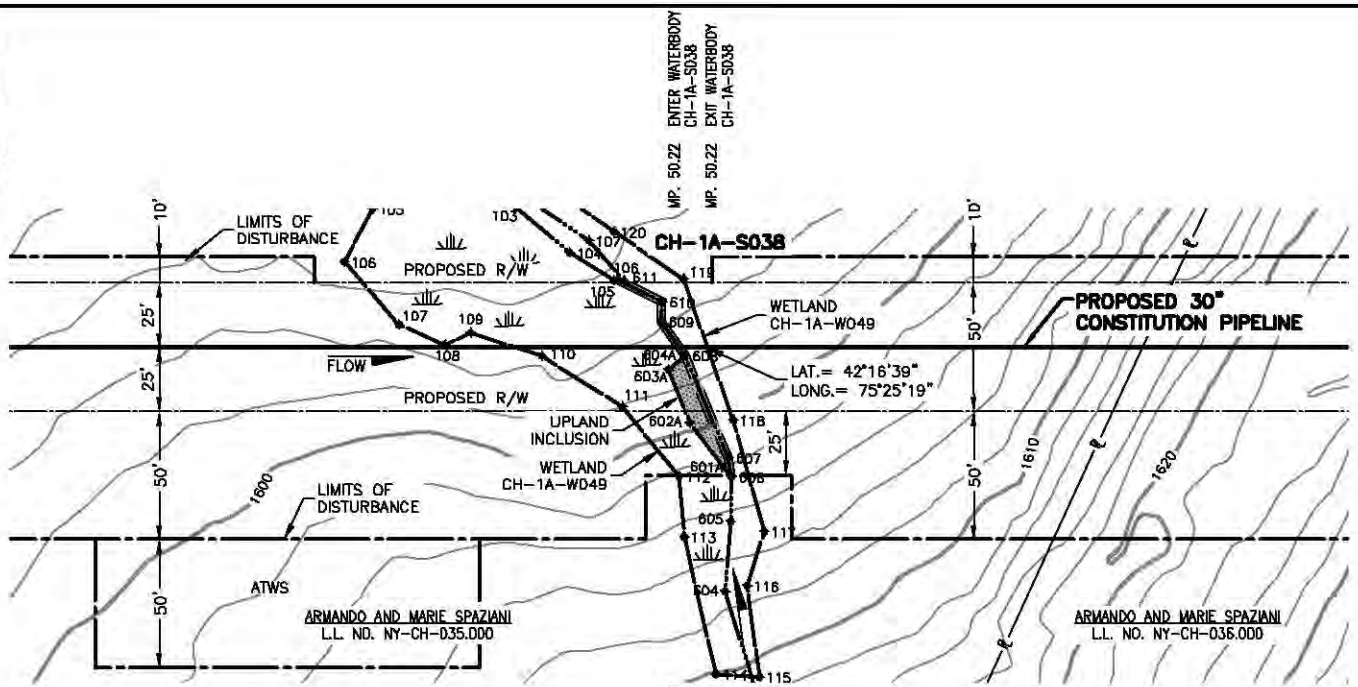
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-16-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

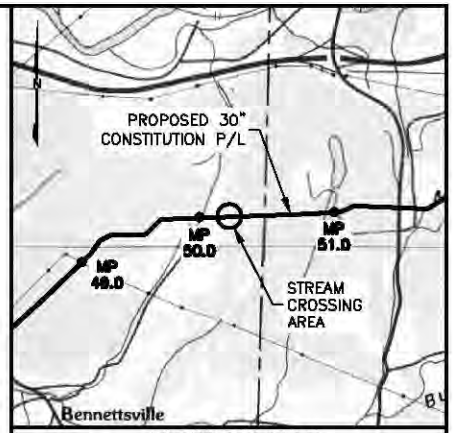
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS CH-1A-S047 @ M.P. 50.09
TOWN OF BAINBRIDGE,
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-16-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1A-S047-1-0	SHEET 111 OF 214
WO: 1110415			



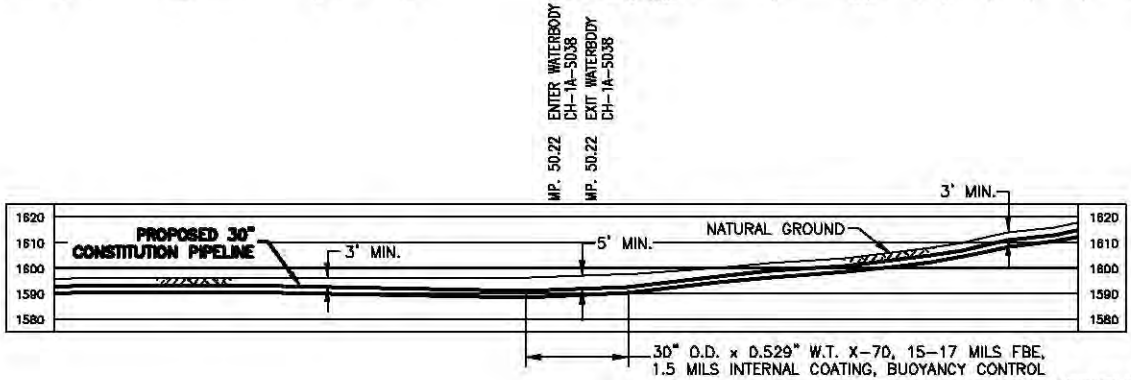


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
CH-1A-S038	UNT to Bennettsville Creek	Intermittent	5	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-51	ALIGNMENT SHEET

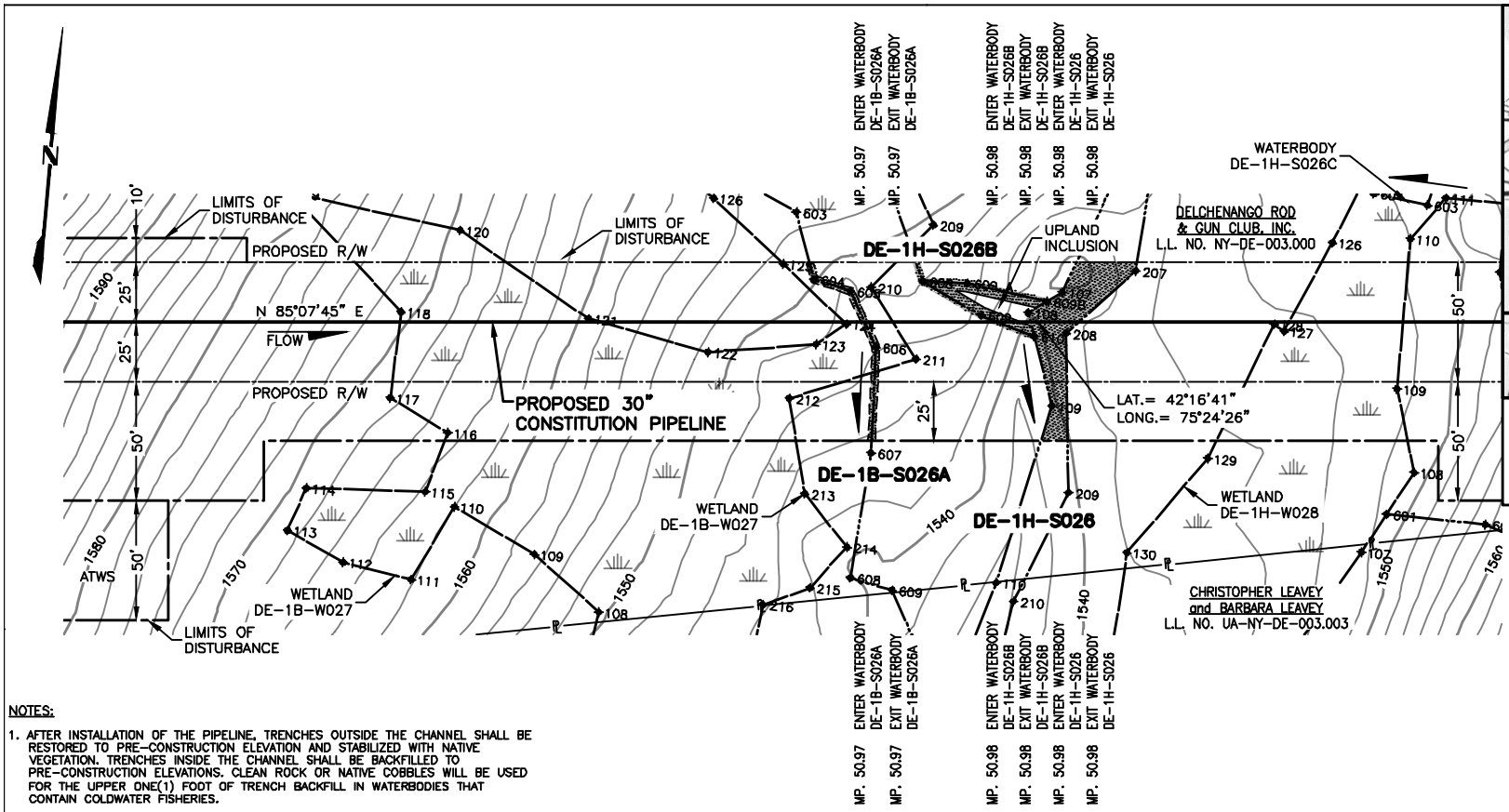
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-16-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

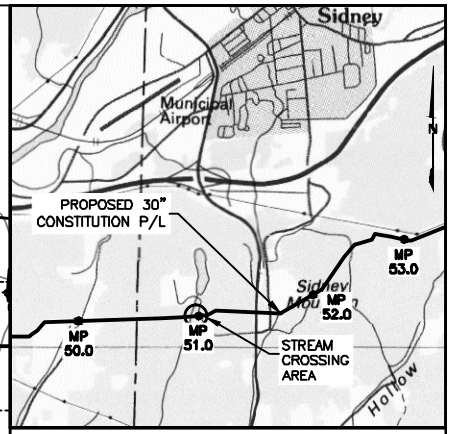
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS CH-1A-S038 @ M.P. 50.22
TOWN OF BAINBRIDGE
CHENANGO COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-16-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/CH-1A-S038-1-0	SHEET 112 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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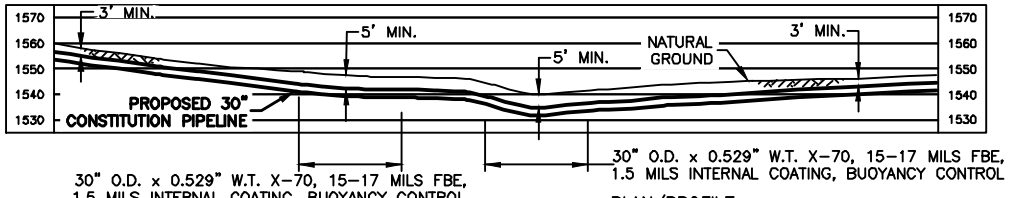
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	
DE-1B-S026A	UNT to Masonville Creek	Intermittent	3	0.01	D	N	N/A	Dry
DE-1H-S026B	UNT to Masonville Creek	Ephemeral	19	0.01	D	N	N/A	Dry
DE-1H-S026	Rock Creek	Perennial	20	0.03	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-52	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-26-13	GIE	ISSUE FOR USE	1110415		

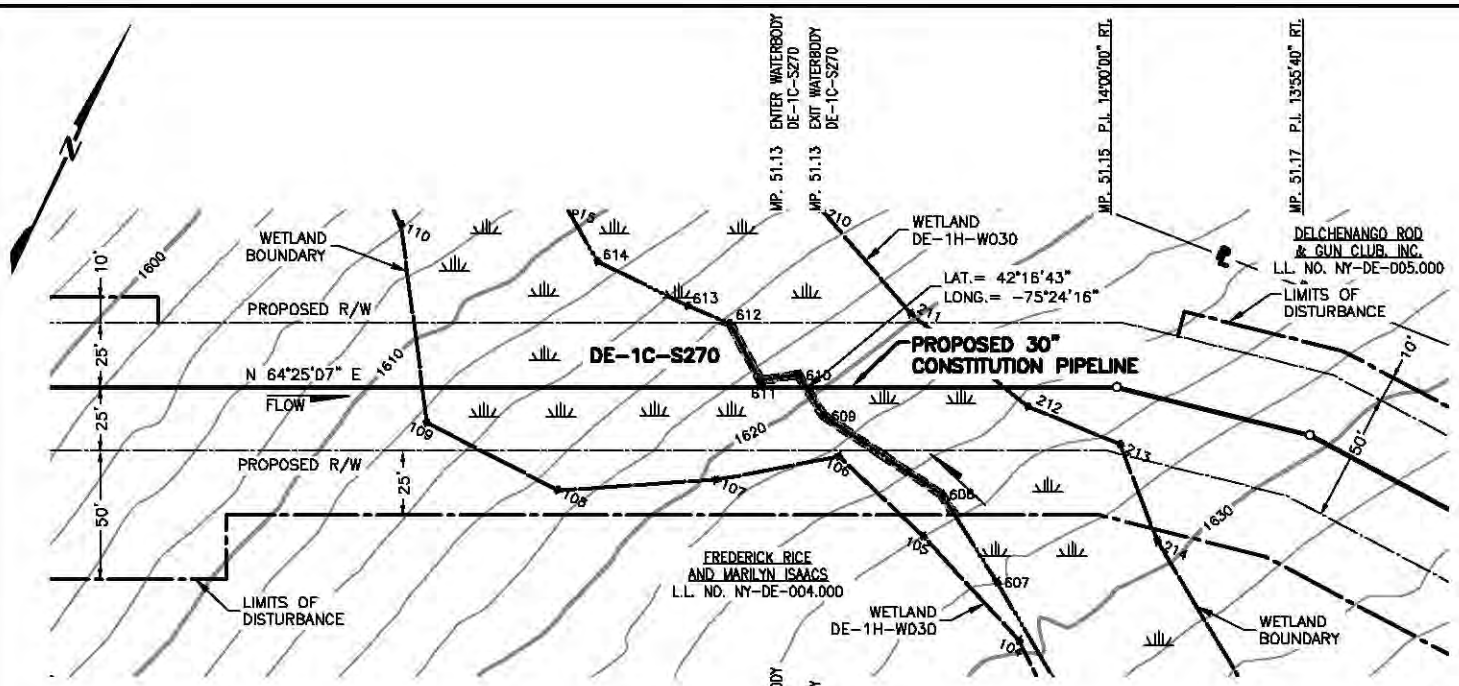
APPLICATION NO.: NAN-2012-00449-UBR

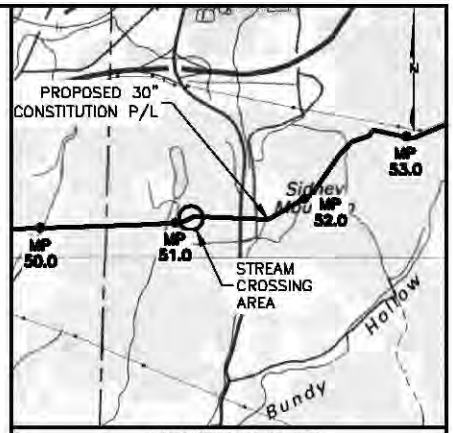
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS DE-1B-S026A, DE-1H-S026B
AND DE-1H-S026 @ M.P. 50.97
TOWN OF MASONVILLE, DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-29-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1B-S026A-1-4	SHEET 113 OF 214
WO: 1110415			



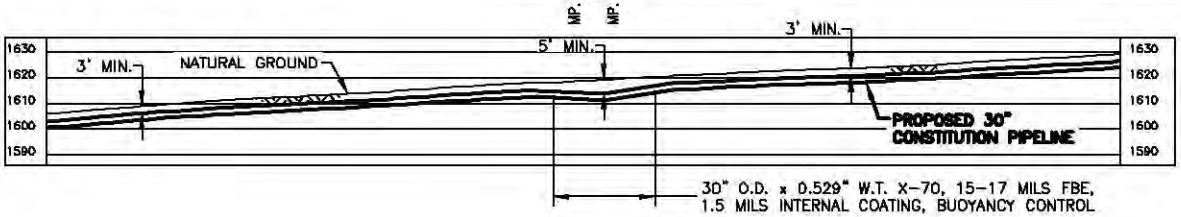


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S270	UNT to Masonville Creek	Intermittent	4	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-52	ALIGNMENT SHEET

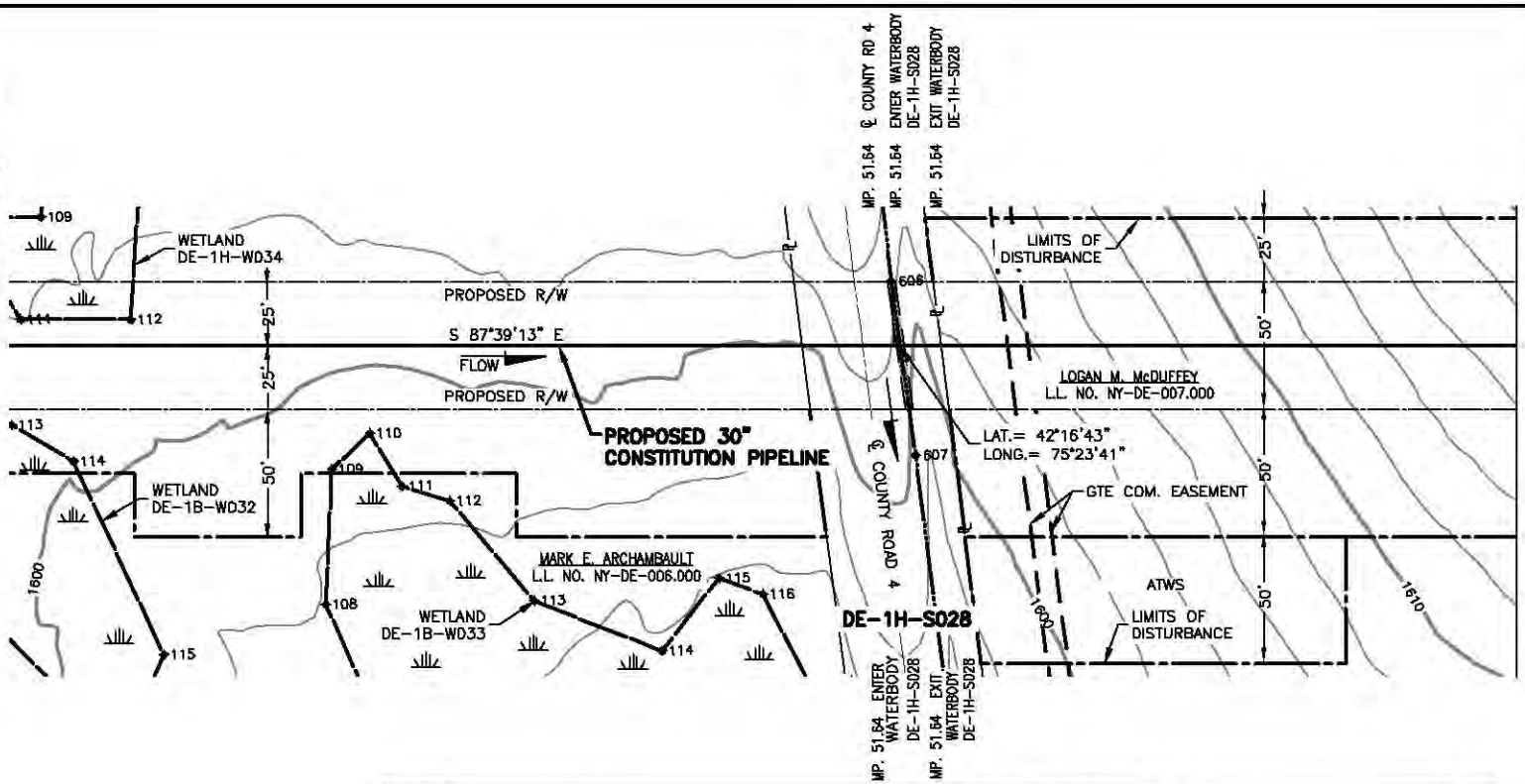
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-14-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

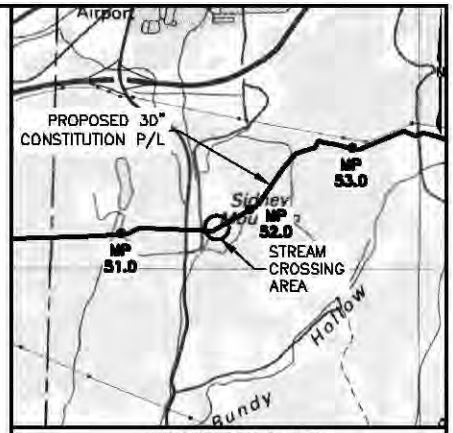
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WATERBODY CROSSING DE-1C-S270 @ M.P. 51.13
TOWN OF MASONVILLE
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-14-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-D9-B5/DE-1C-S270-1-0	SHEET 114 OF 214
WO: 1110415			



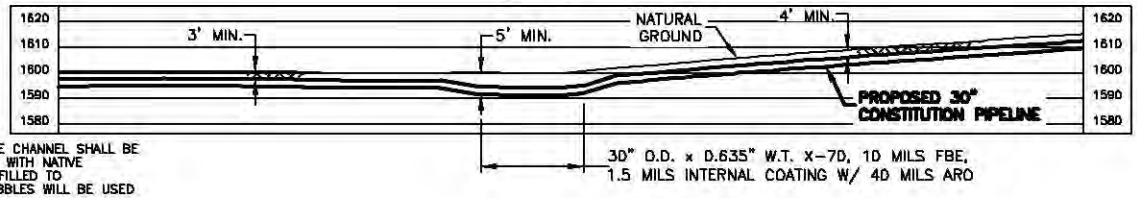


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1H-S028	Road Ditch	Intermittent	3	0.01	N/A	N	N/A	Conventional bore

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-53	ALIGNMENT SHEET

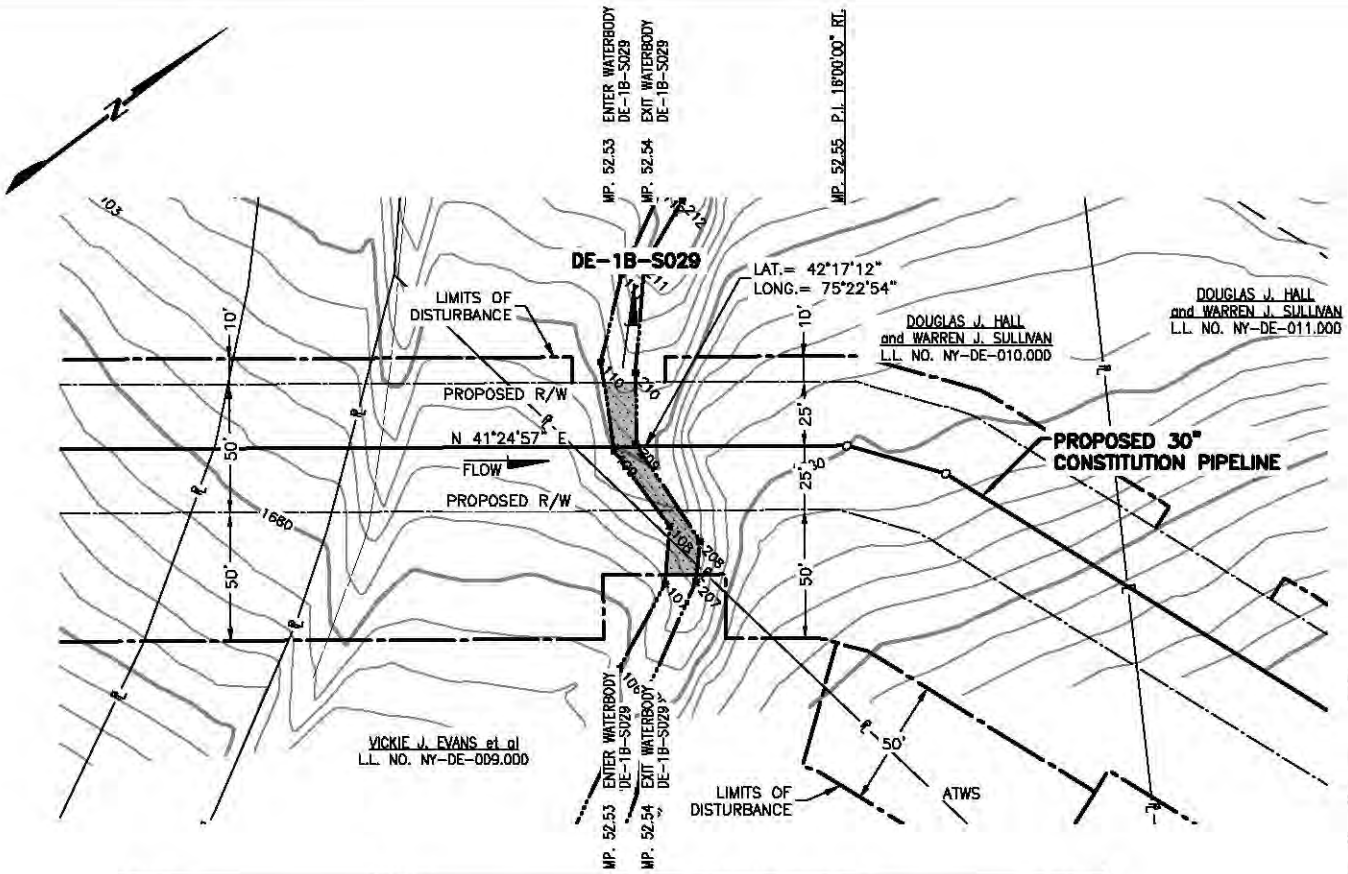
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-09-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	08-13-13	GIE	ISSUED FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-10-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-22-13	GIE	ISSUED FOR USE	1110415		

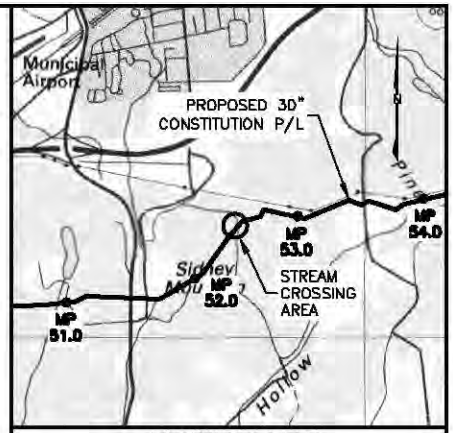
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1H-S028 @ M.P. 51.64
TOWN OF MASONVILLE
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-30-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1H-S028-1-3	SHEET 115 OF 214
WO: 1110415			



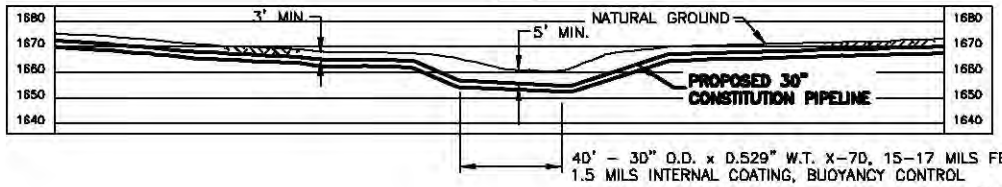


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1B-S029	UNT to Susquehanna River	Intermittent	7	0.018	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-54	ALIGNMENT SHEET

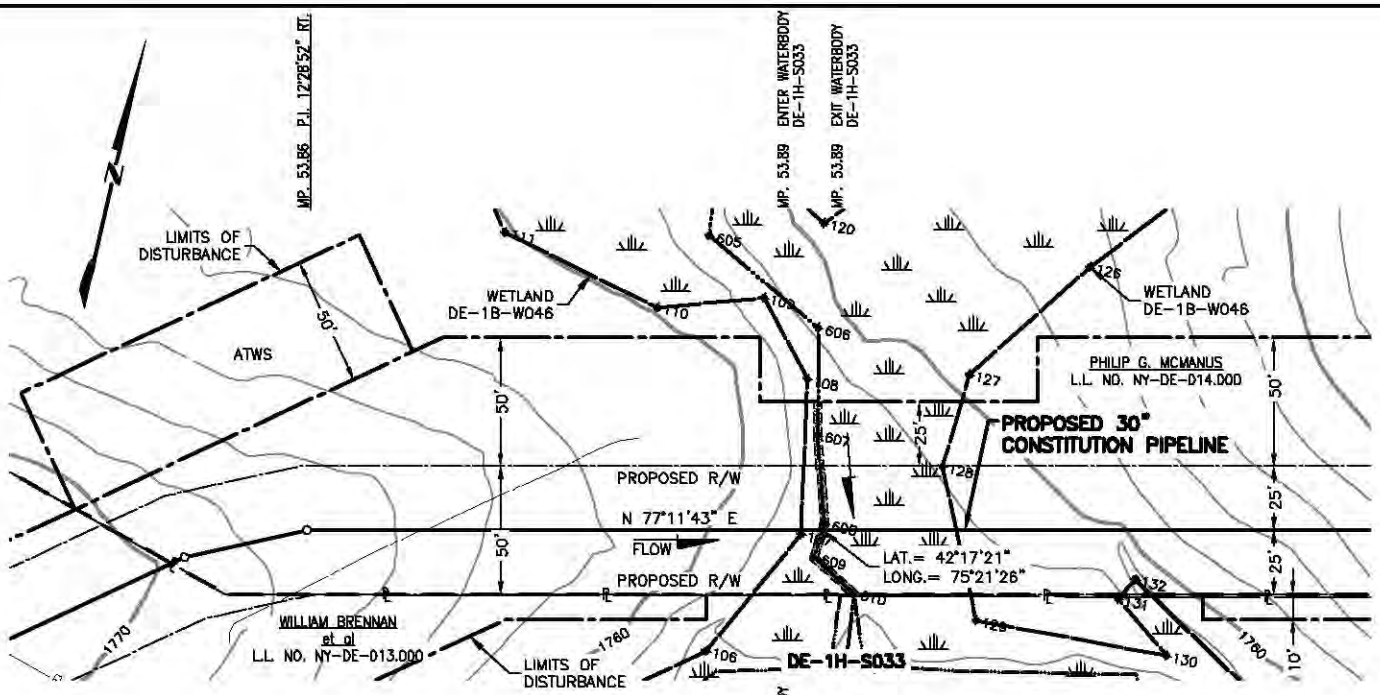
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-06-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-18-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-10-13	GIE	ISSUE FOR USE	1110415		

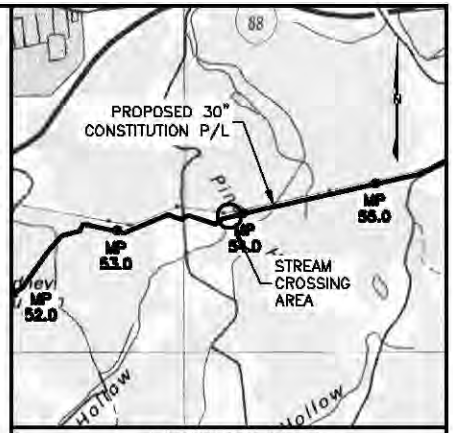
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1B-S029 @ M.P. 52.53
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-31-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1B-S029-1-2	SHEET 116 OF 214
WO: 1110415			



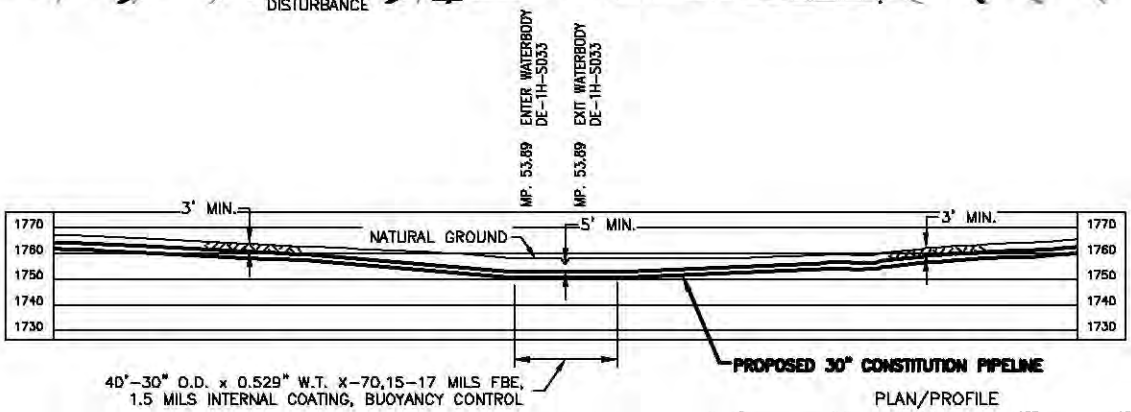


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1H-S033	Unt to Masonville Creek	Perennial	1	0.006	C(TS)	Y	(TS)	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-55	ALIGNMENT SHEET

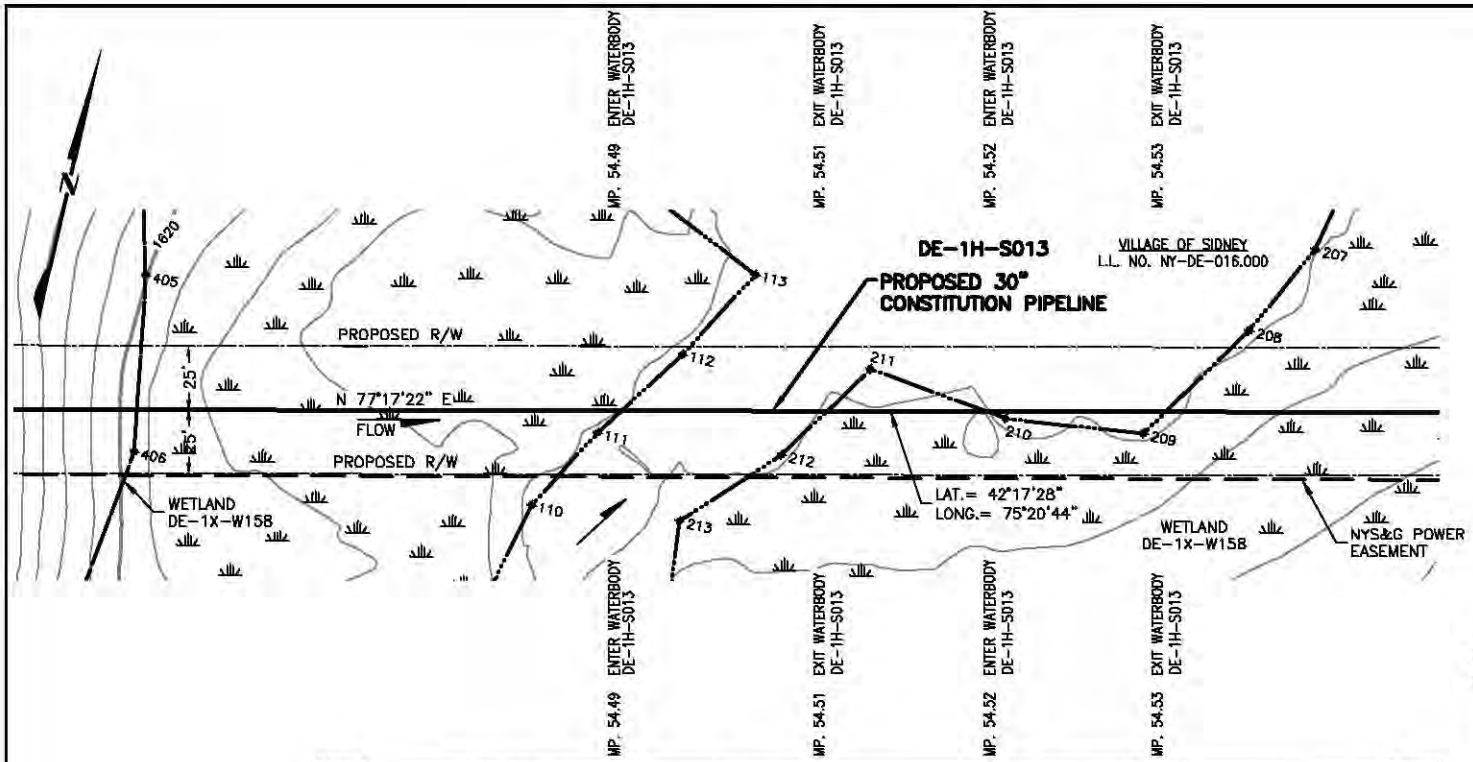
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	06-06-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	06-14-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	06-17-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-07-13	GIE	ISSUED FOR USE	1110415		

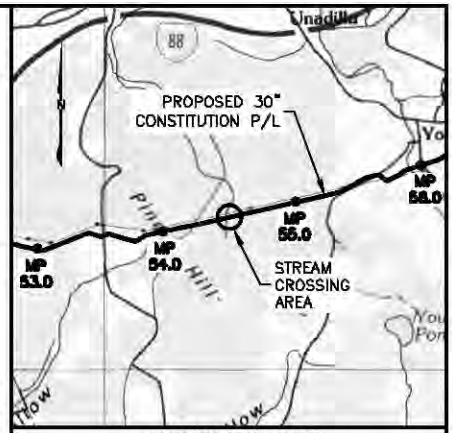
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1H-S033 @ M.P. 53.89
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-03-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1H-S033-1-2	SHEET 117 OF 214
WO: 1110415			



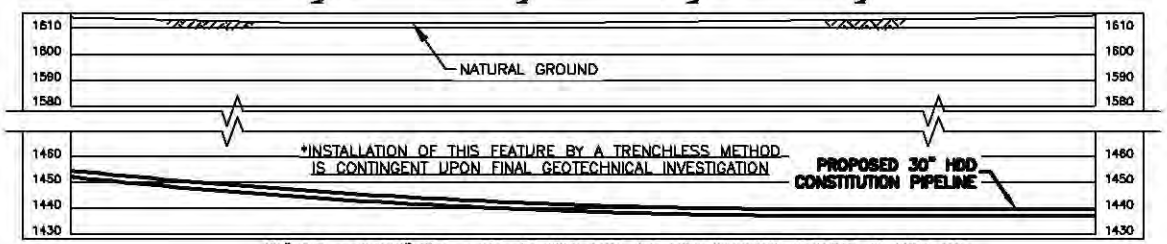


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.635" W.T. X-70, 10 MILS FBE, 1.5 MILS INTERNAL COATING 40 MILS ARO

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON ND ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1H-S013	Collar Brook	Perennial	150	0	AA	Y	N/A	HDD

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-56	ALIGNMENT SHEET

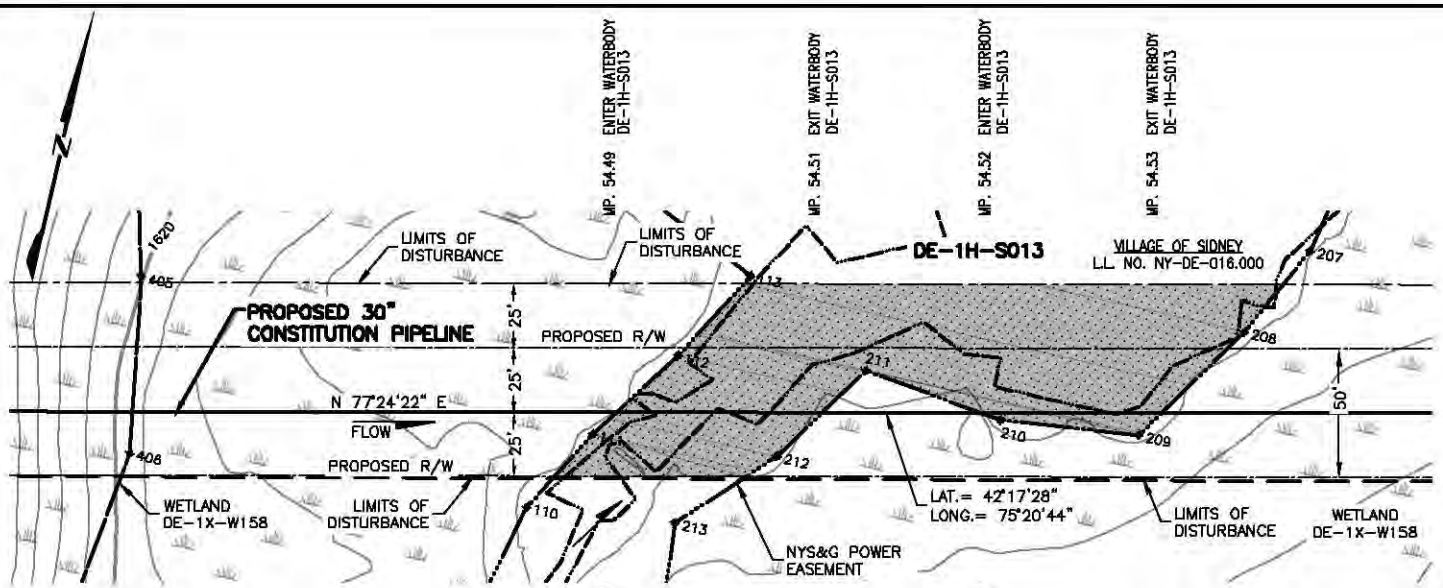
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-21-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	11-01-13	GIE	ISSUE FOR USE	1110415		

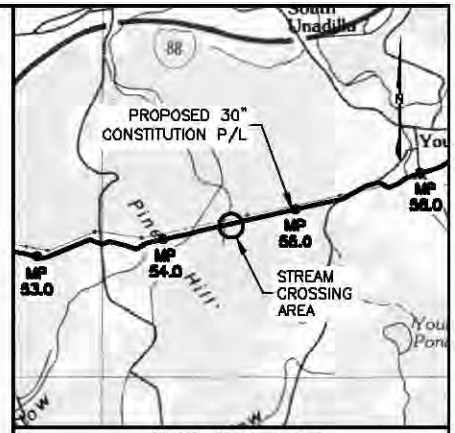
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1H-S013 @ M.P. 54.49
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-14-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1H-S013-1-2	SHEET 118 OF 214
WO: 1110415			



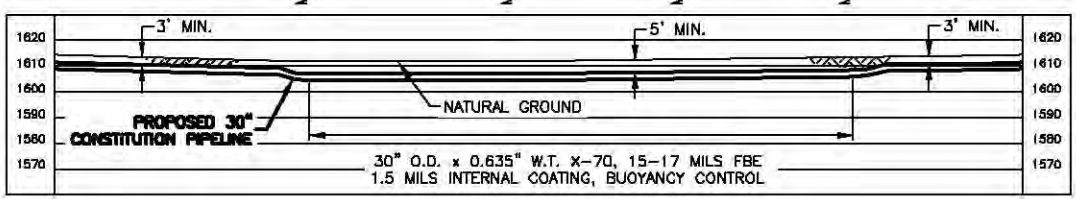


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1H-S013	Collar Brook	Perennial	150	0.20	AA	Y	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-56	ALIGNMENT SHEET

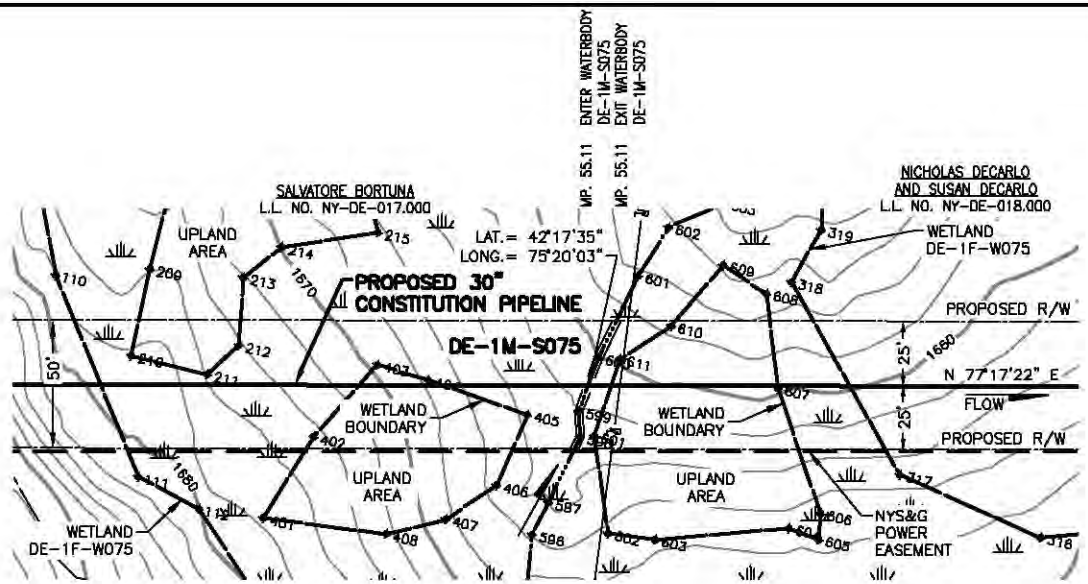
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-22-13	GE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GE	ISSUE FOR USE	1110415		

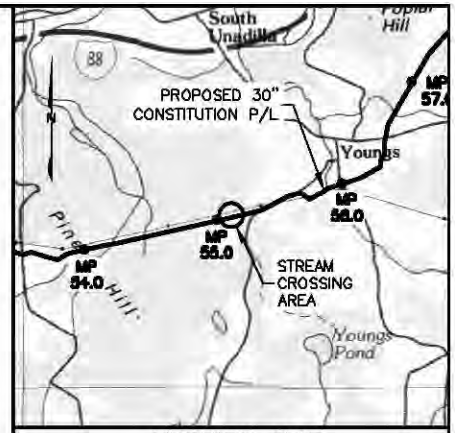
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1H-S013 @ M.P. 54.49
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-14-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1H-S013-OC-1-0	SHEET 118 OF 214
WO: 1110415			



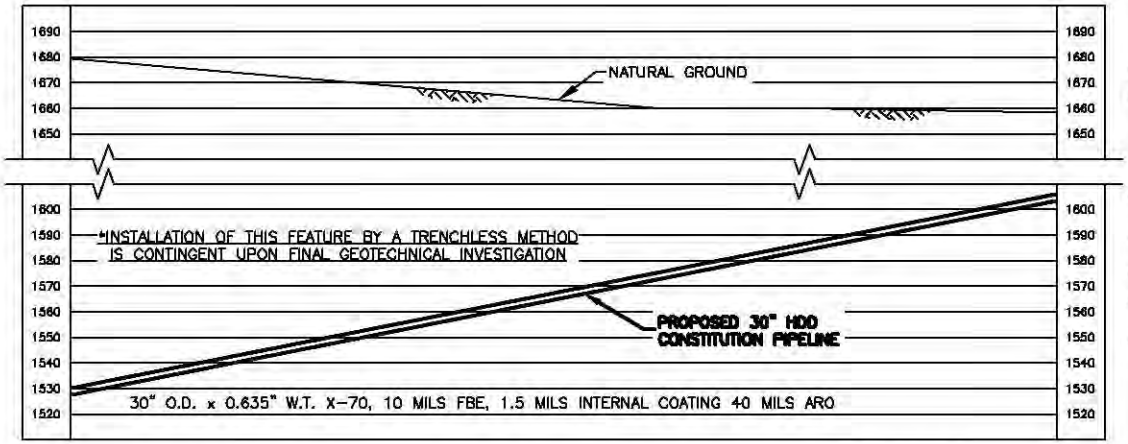


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1M-S075	UNT to Susquehanna River	Ephemeral	3	0.00	C	N	N/A	HDD

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-56	ALIGNMENT SHEET

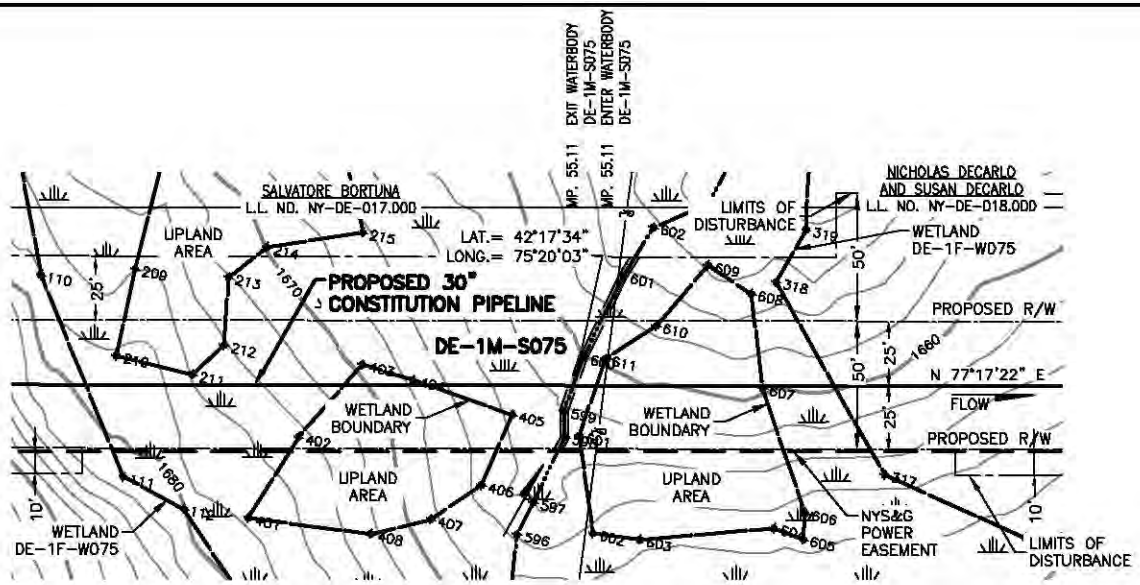
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-24-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GE	ISSUE FOR USE	1110415		

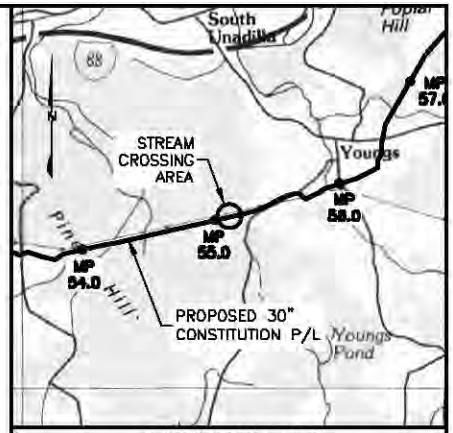
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1M-S075 @ M.P. 55.11
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

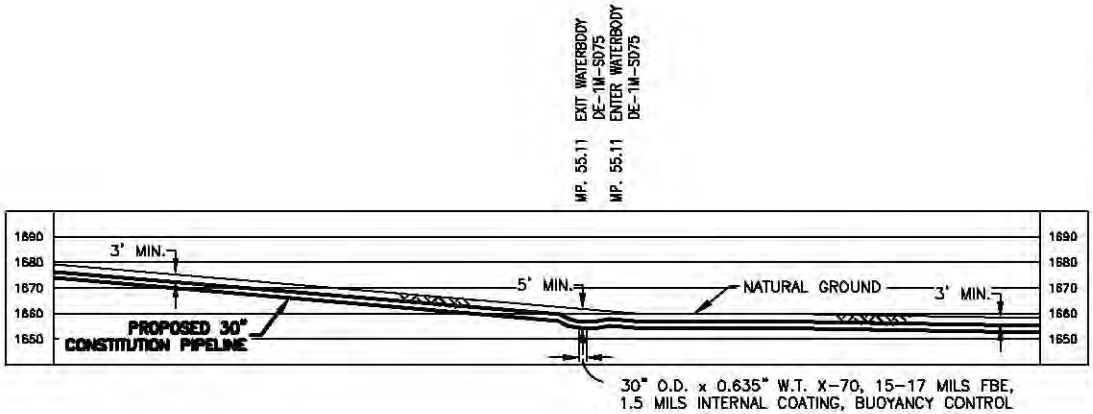
DRAWN BY: GIE	DATE: 10-24-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1M-S075-1-0	SHEET 119 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1M-S075	UNT to Susquehanna River	Ephemeral	3	0.01	C	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-56	ALIGNMENT SHEET

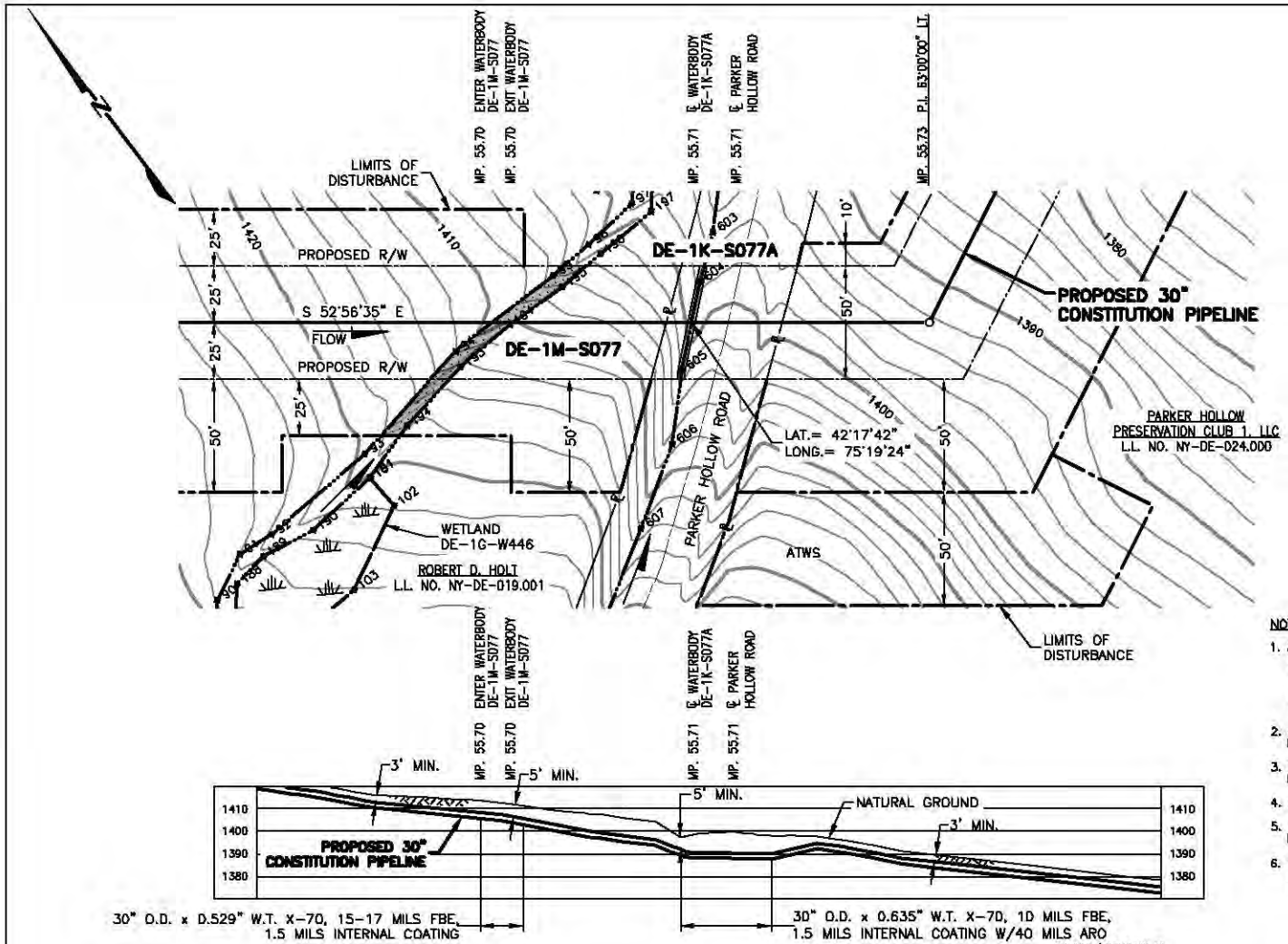
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-24-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

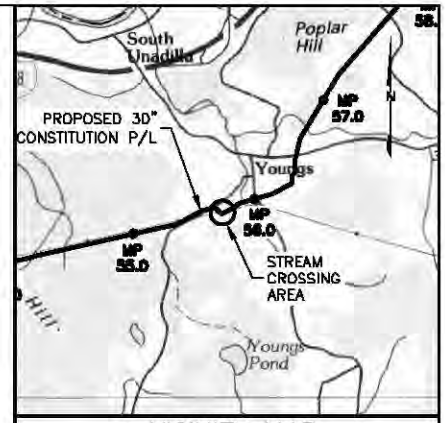
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1M-S075 @ M.P. 55.11
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-24-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1M-S075-DC-1-0	SHEET 119 OF 214
WO: 1110415			





PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1M-S077	Unt To Carrs Creek	Ephemeral	9	0.02	D	N	N/A	Dry
DE-1K-S077A	Road Ditch	Intermittent	3	0.00	N/A	N	N/A	Conventional Bore

TROY L. KENNEDY JR
N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-57	ALIGNMENT SHEET

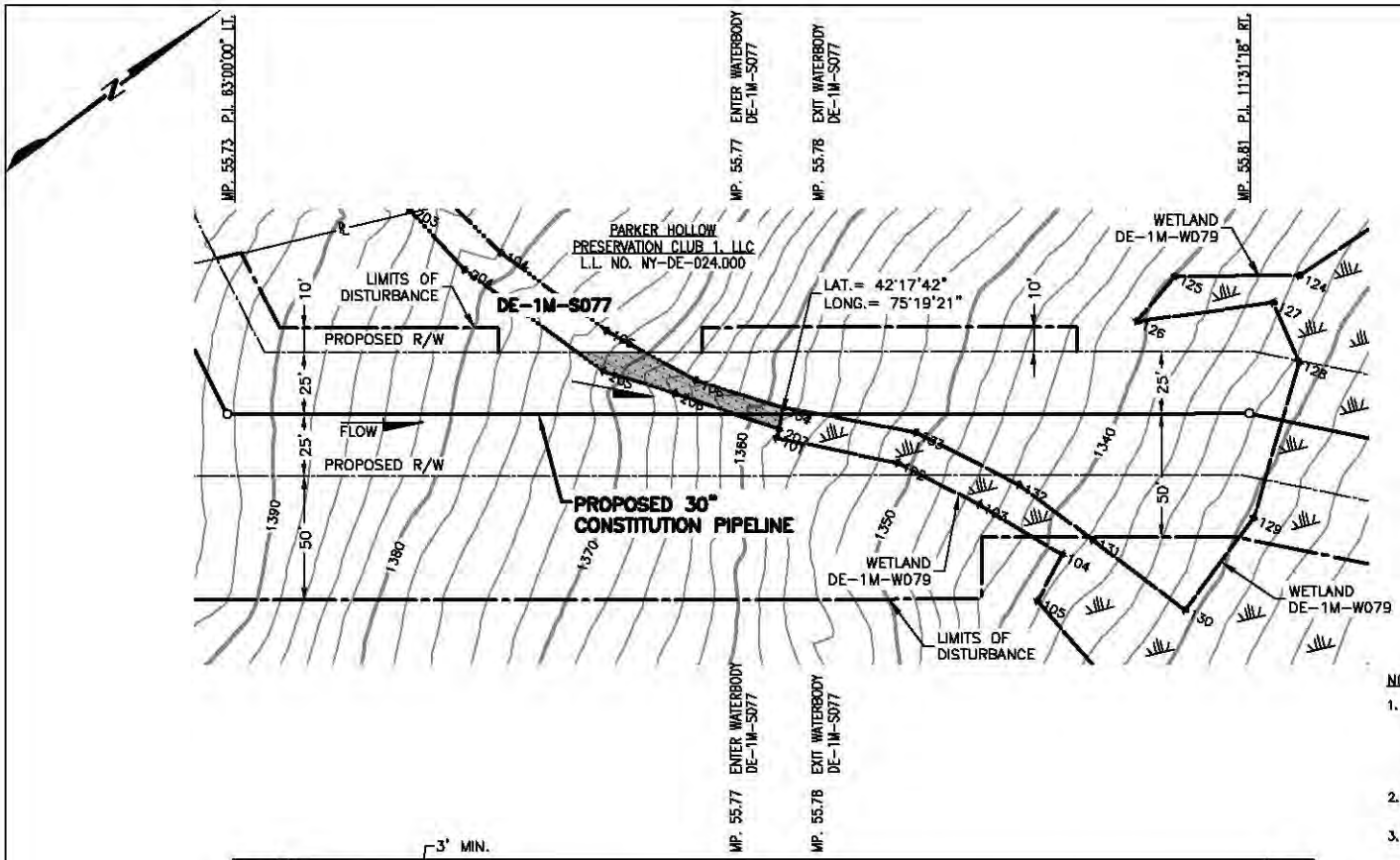
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-14-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
C	10-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

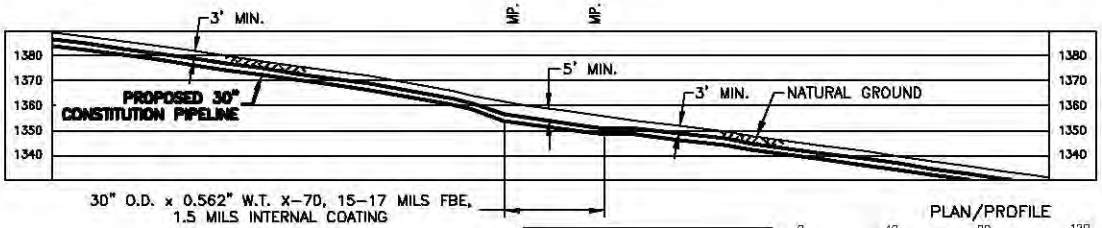
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1M-S077 AND DE-1K-S077A @ M.P. 55.70
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-14-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1M-S077-1-D	SHEET 120 OF 214
WO: 1110415			

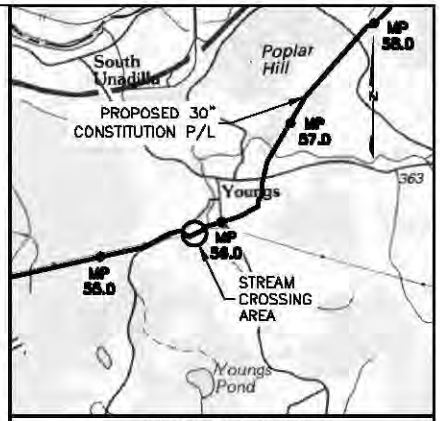




PLAN/PROFILE

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1M-S077	Unt to Carrs Creek	Ephemeral	19	0.02	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-57	ALIGNMENT SHEET

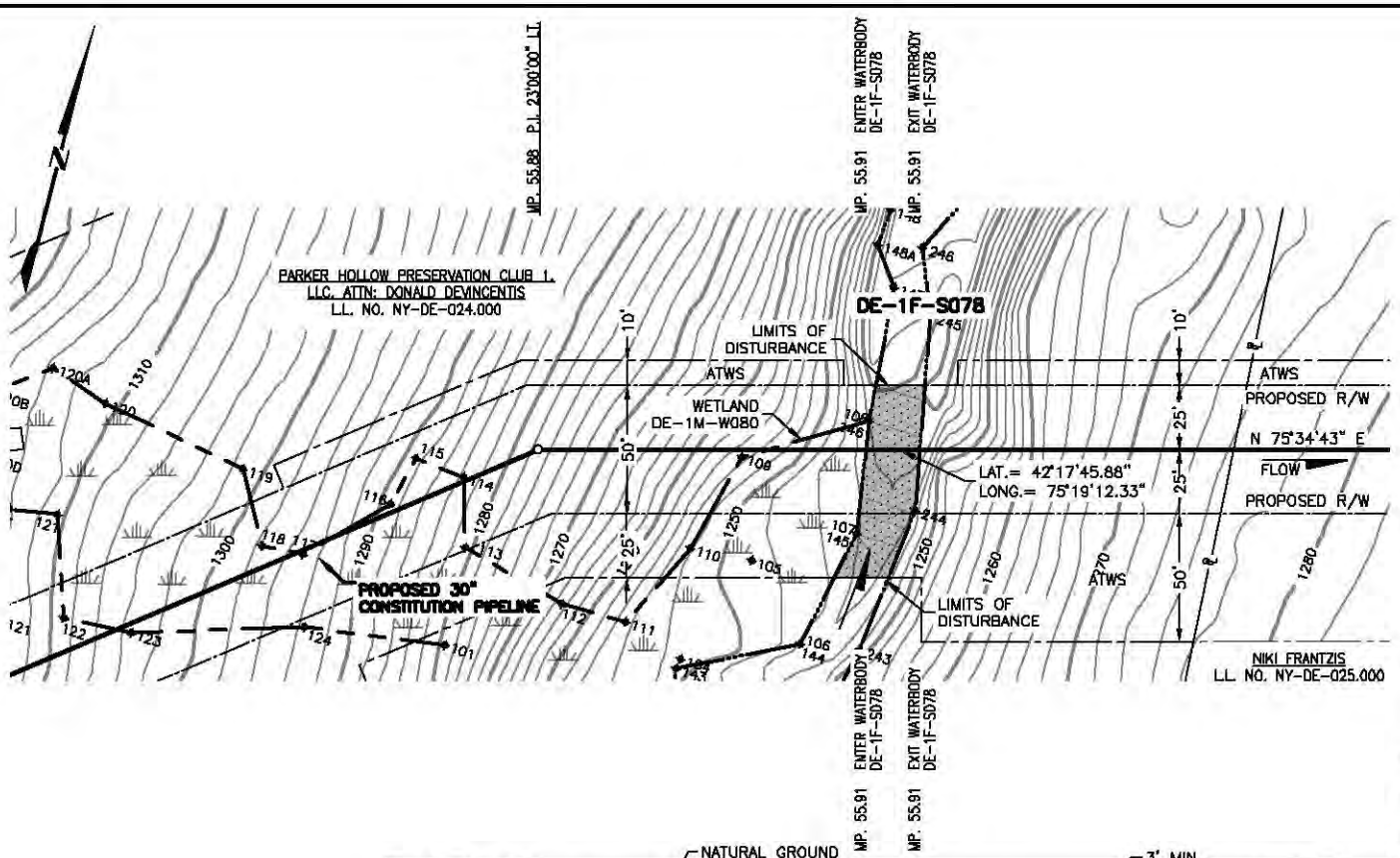
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
C	10-30-13	GIE	ISSUE FOR USE	1110415		
D	10/31/13	GIE	ISSUE FOR USE	1110415		

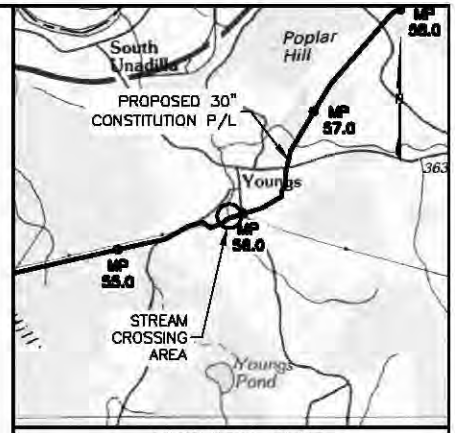
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1M-S077 @ M.P. 55.77
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1M-S077-2-D	SHEET 121 OF 214
WO: 1110415			



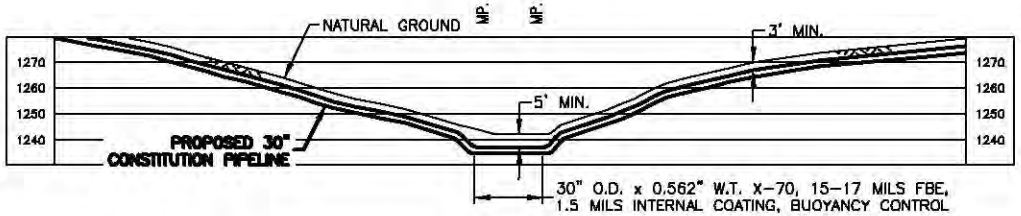


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1F-S078	UNT to Carrs Creek	Perennial	21	0.04	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-57	ALIGNMENT SHEET

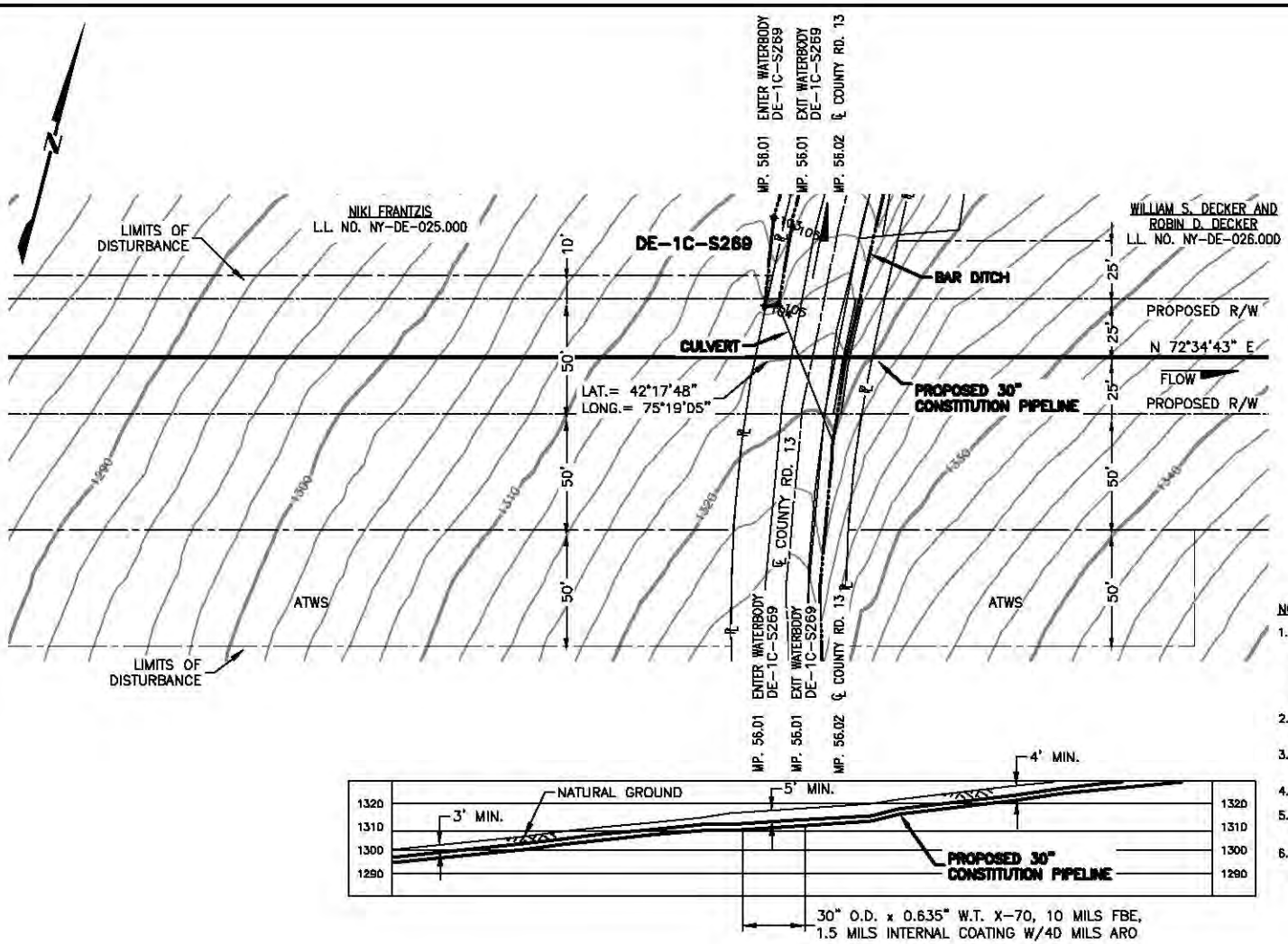
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-14-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-23-13	GIE	REVISED - ISSUED FOR USE	1110415		
4	10-28-13	GIE	ISSUE FOR USE	1110415		

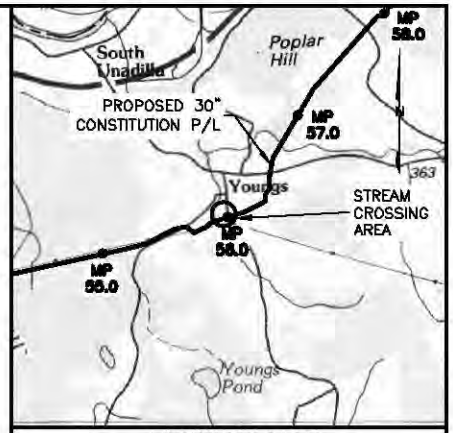
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1F-S078 @ M.P. 55.91
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-04-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1F-S078-1-4	SHEET 122 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S269	Road Ditch	Ephemeral	0	0.01	N/A	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-57	ALIGNMENT SHEET

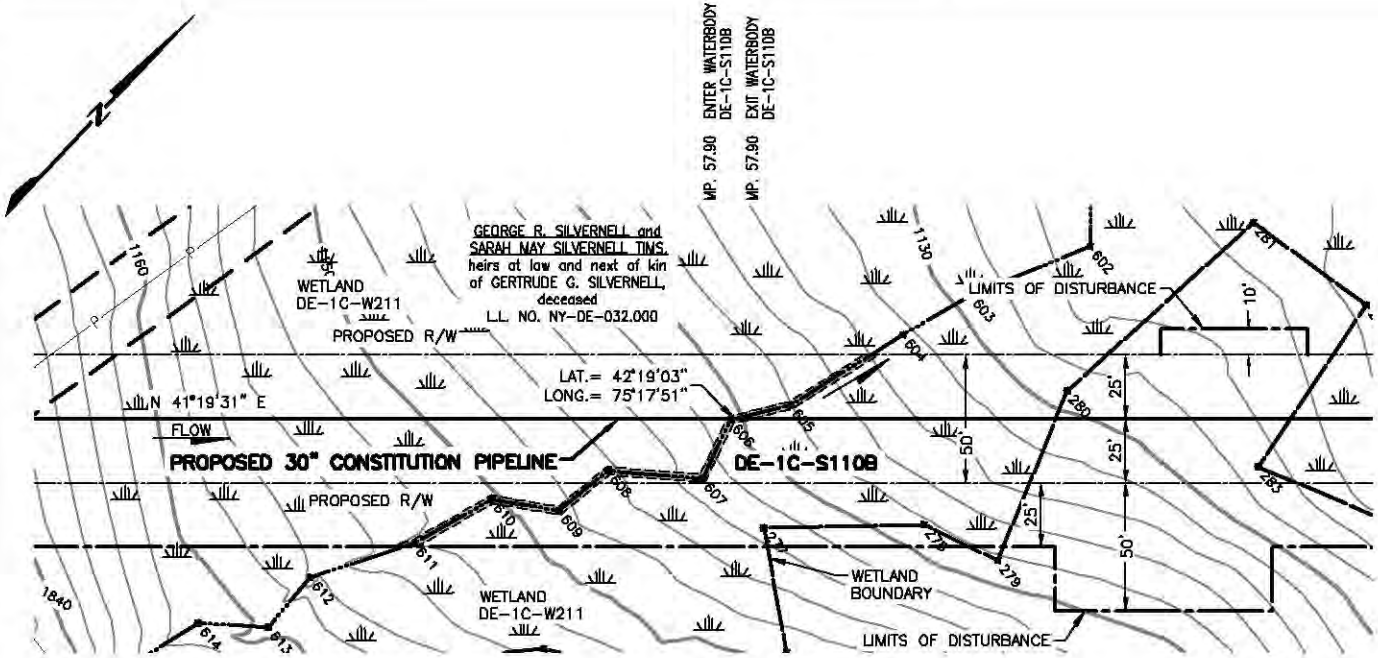
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

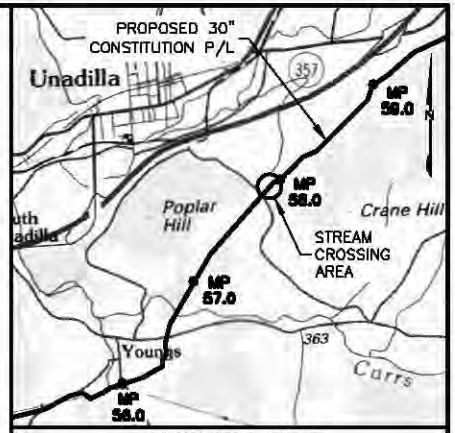
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S269 @ M.P. 56.01
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S269-1-0	SHEET 123 OF 214
WO: 1110415			



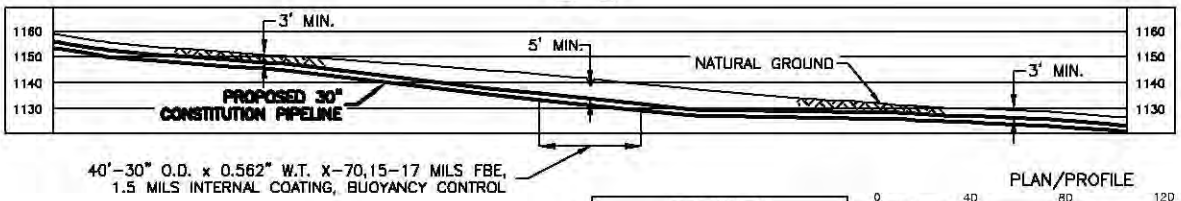


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S110B	UNT to Susquehanna River	Intermittent	7	0.01	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-59	ALIGNMENT SHEET

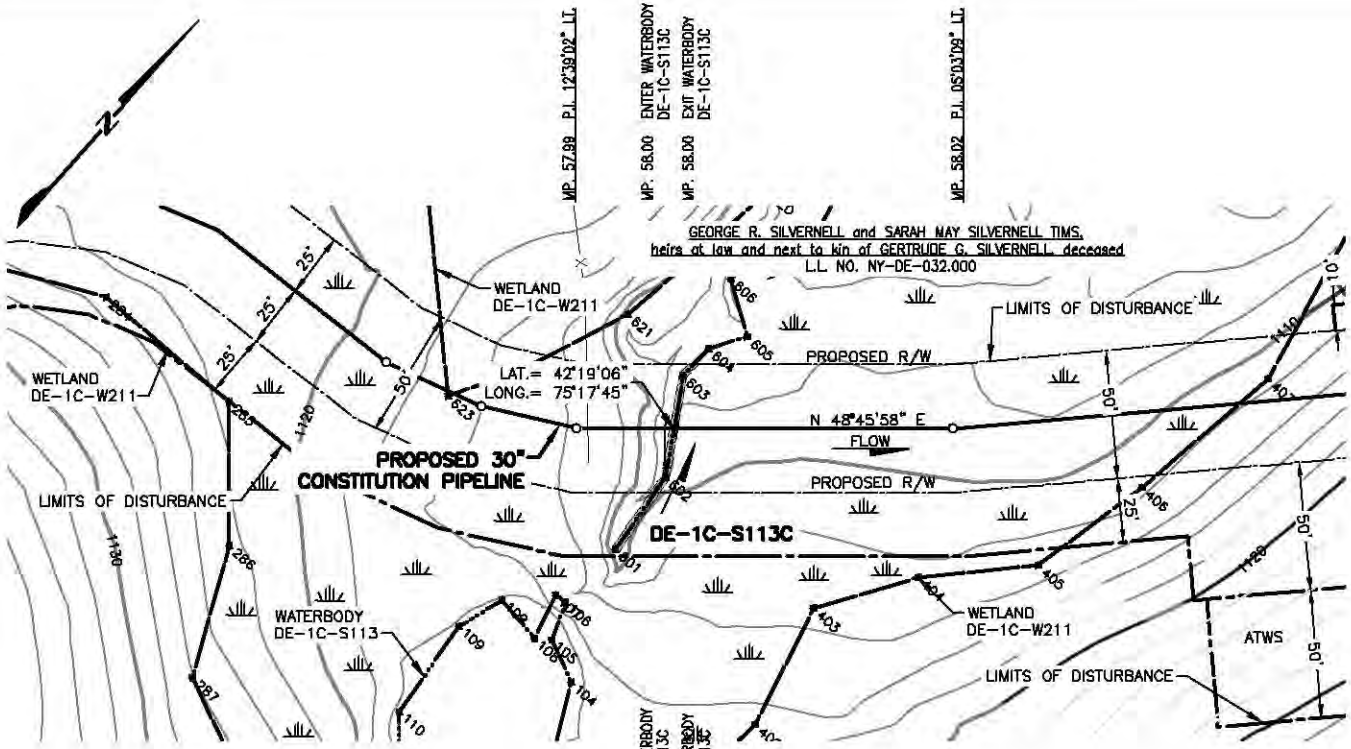
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-26-13	GIE	ISSUE FOR USE	1110415		

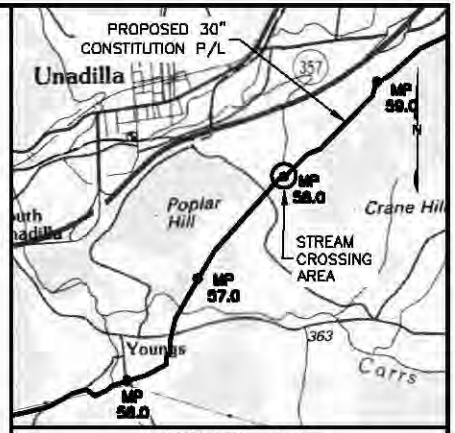
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S110B @ M.P. 57.90
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-19-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S110B-1-4	SHEET 124 OF 214
WO: 1110415			



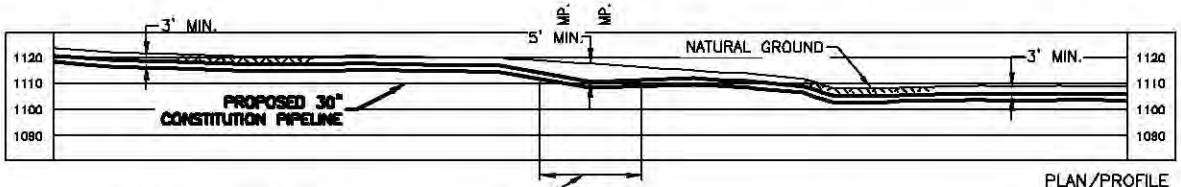


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.562" W.T. X-70,15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S113C	UNT to Susquehanna River	Perennial	2	0.05	C	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-59	ALIGNMENT SHEET

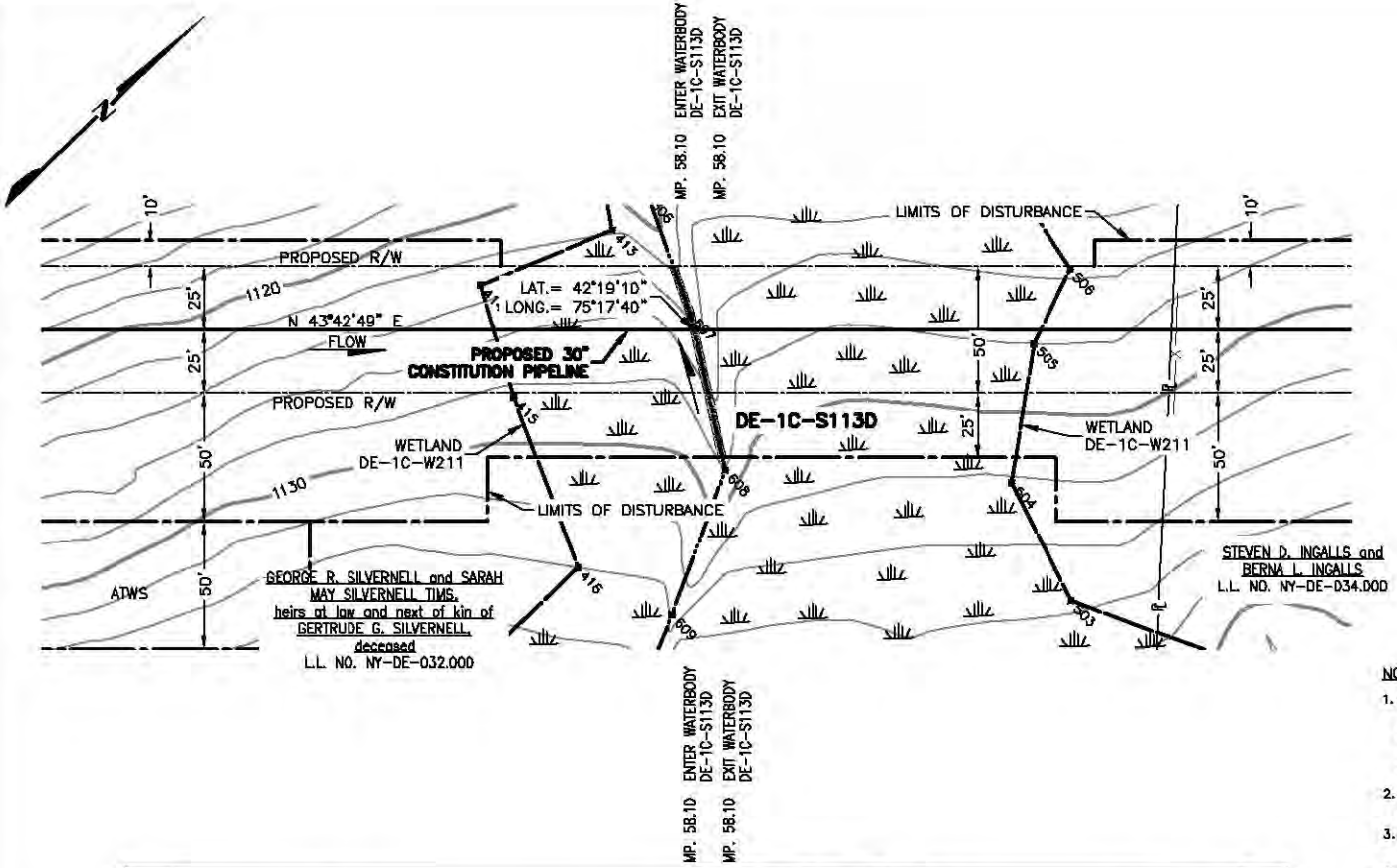
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-14-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	ISSUE FOR USE	1110415		

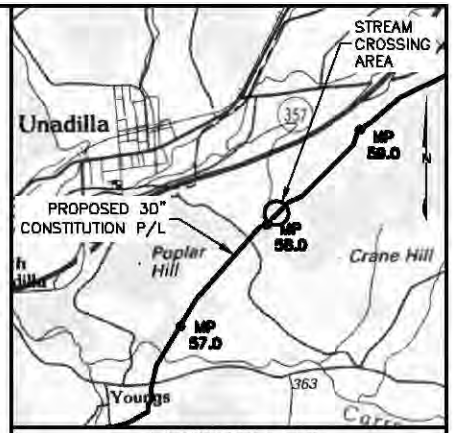
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S113C @ M.P. 58.00
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-20-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S113C-1-3	SHEET 125 OF 214
WO: 1110415			



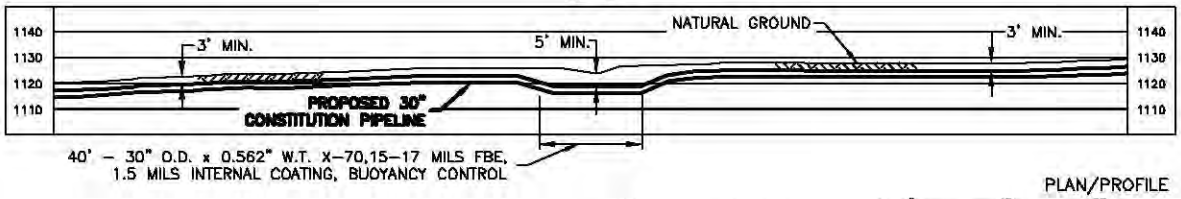


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S113D	UNT to Susquehanna River	Intermittent	2	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-59	ALIGNMENT SHEET

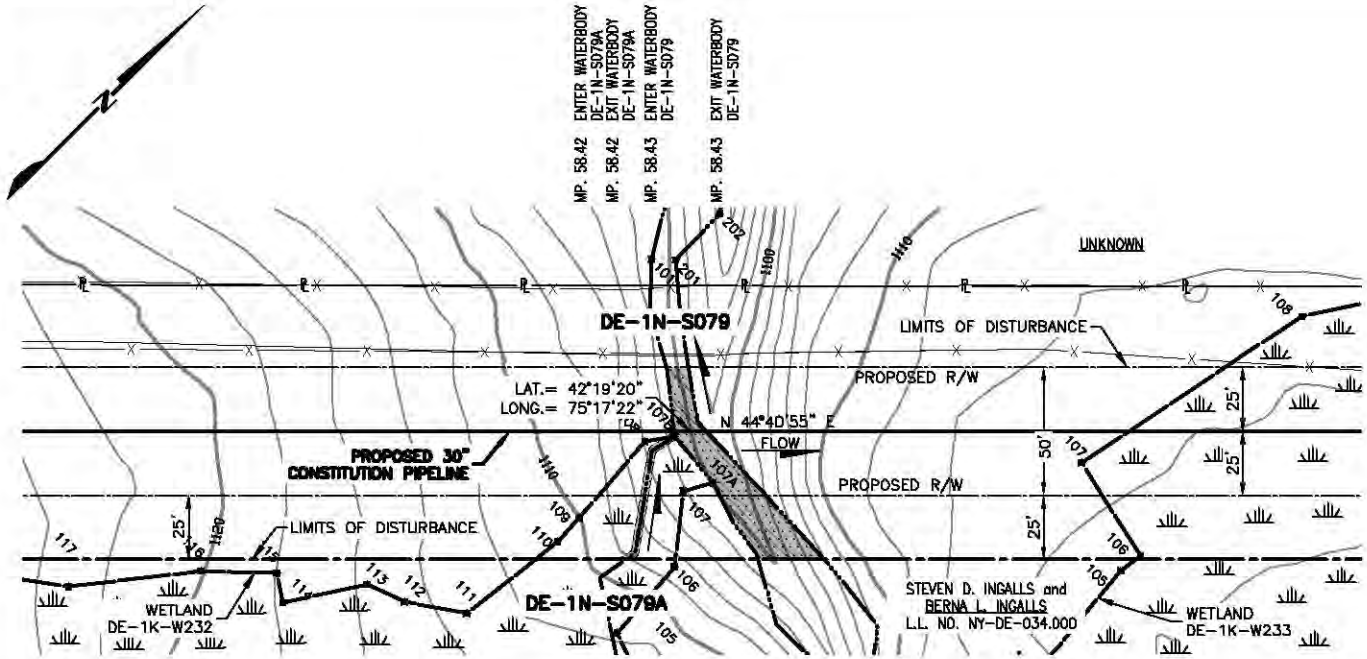
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	ISSUE FOR USE	1110415		

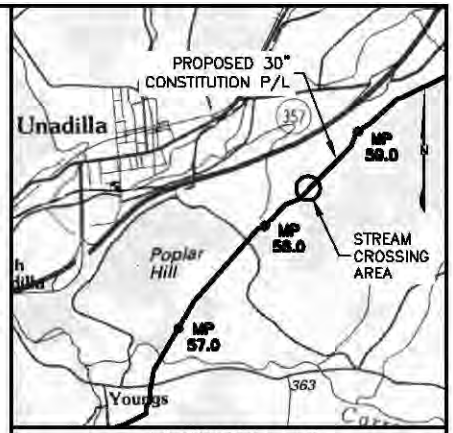
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S113D @ M.P. 58.1D
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-20-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S113D-1-3	SHEET 126 OF 214
WO: 1110415			



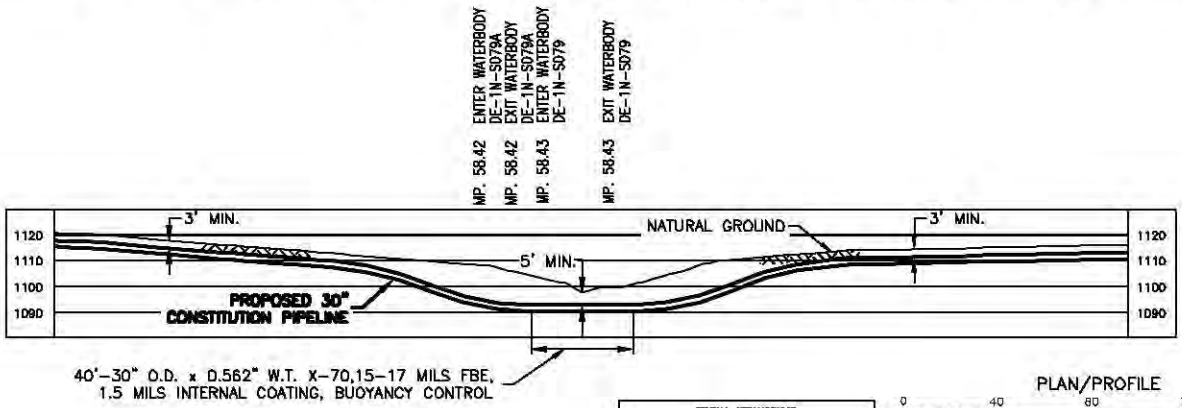


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1N-S079A	UNT to Susquehanna River	Intermittent	0	0.01	D	N	N/A	N/A
DE-1N-S079	UNT to Susquehanna River	Perennial	13	0.03	C	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-60	ALIGNMENT SHEET

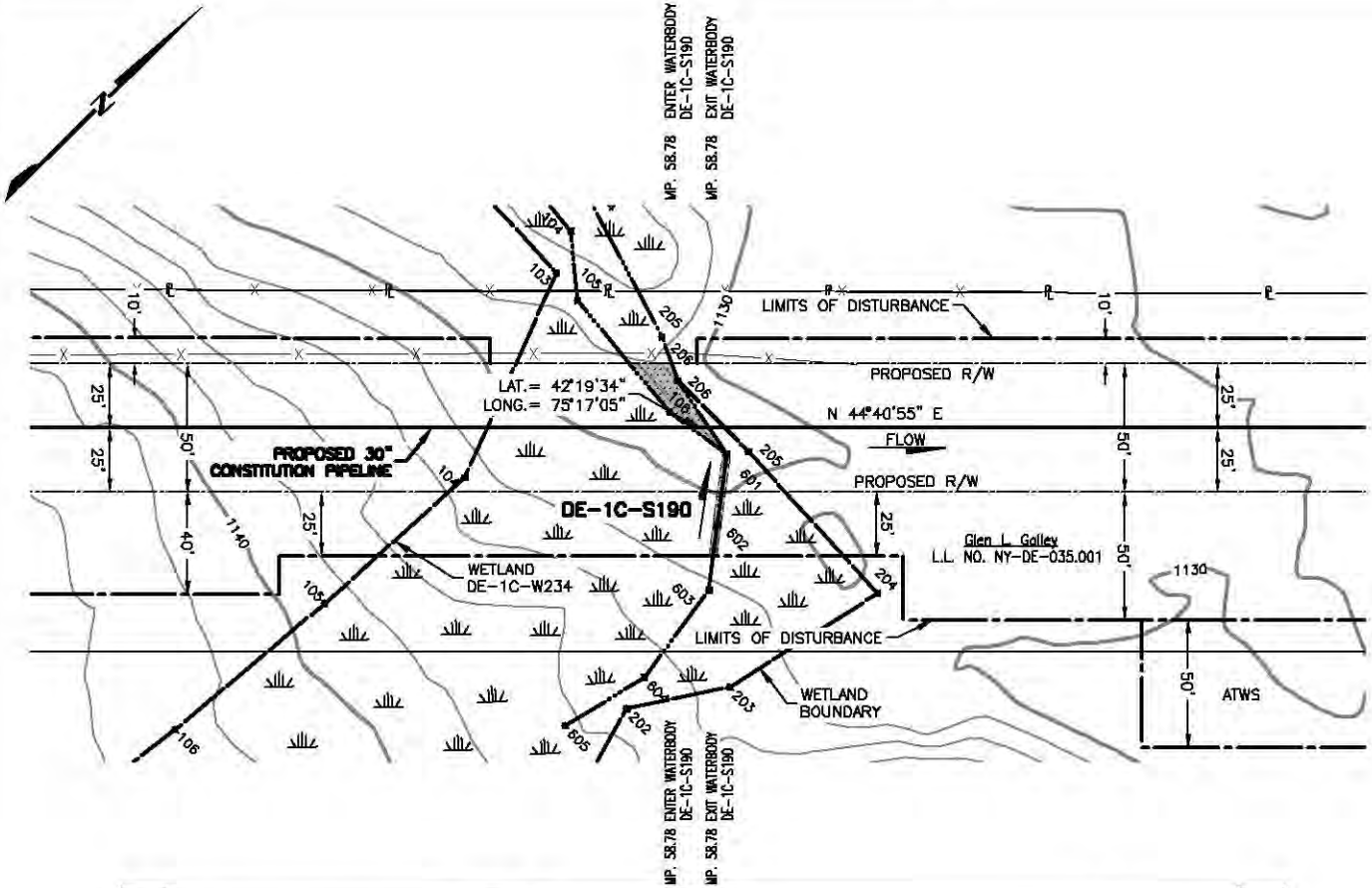
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-24-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-14-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-28-13	GIE	ISSUE FOR USE	1110415		

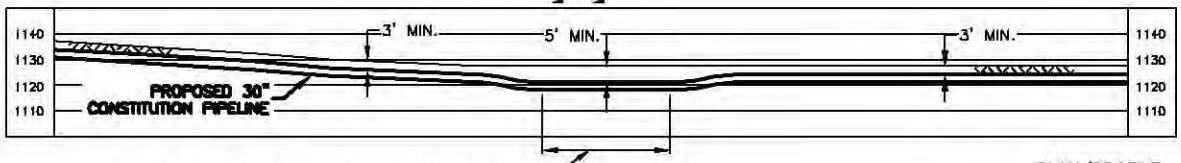
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS DE-1N-S079 AND DE-1N-S079A @ M.P. 58.43
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-20-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1N-S079A-1-4	SHEET 127 OF 214
WO: 1110415			





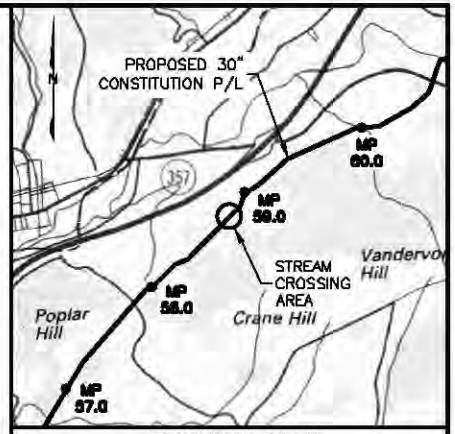
40'-30" O.D. x 0.562" W.T. X-70,15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S190	UNT to Susquehanna River	Intermittent	7	0.01	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-60	ALIGNMENT SHEET

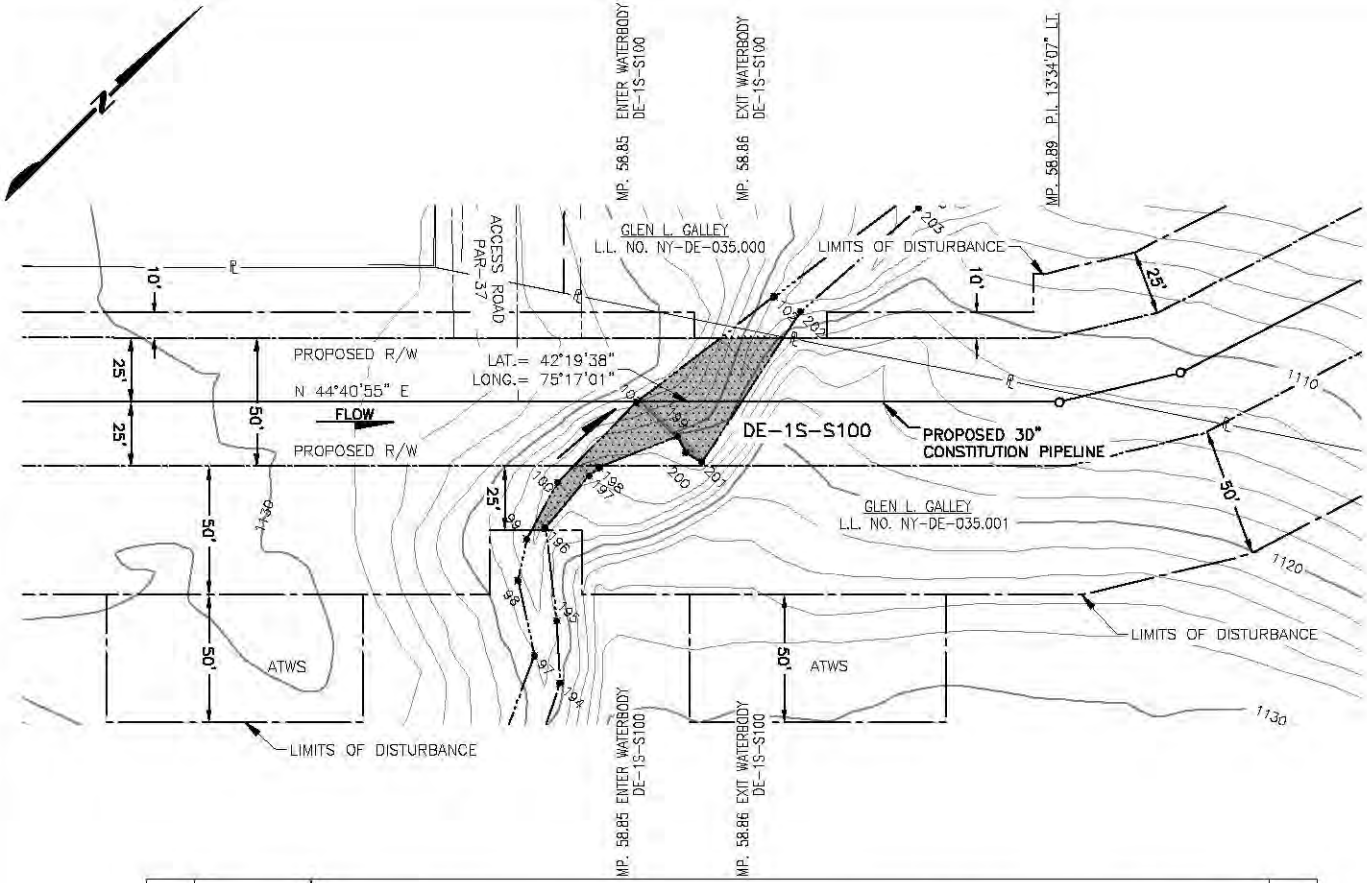
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-14-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

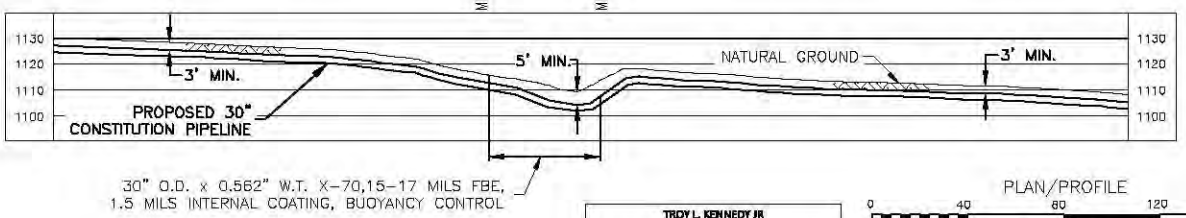
APPLICATION NO.: NAN-2012-00449-UBR

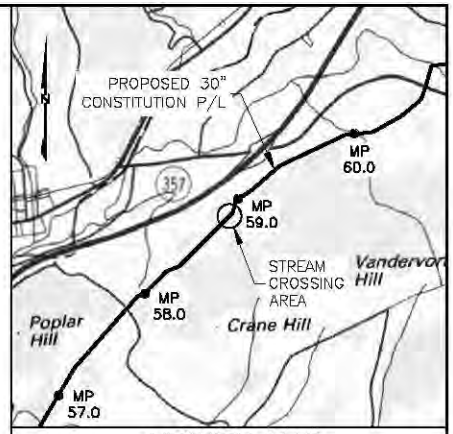
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S190 @ N.P. 58.78
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-24-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S190-1-4	SHEET 128 OF 214
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1S-S100	UNT to Pond	Ephemeral	41	0.04	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-60	ALIGNMENT SHEET

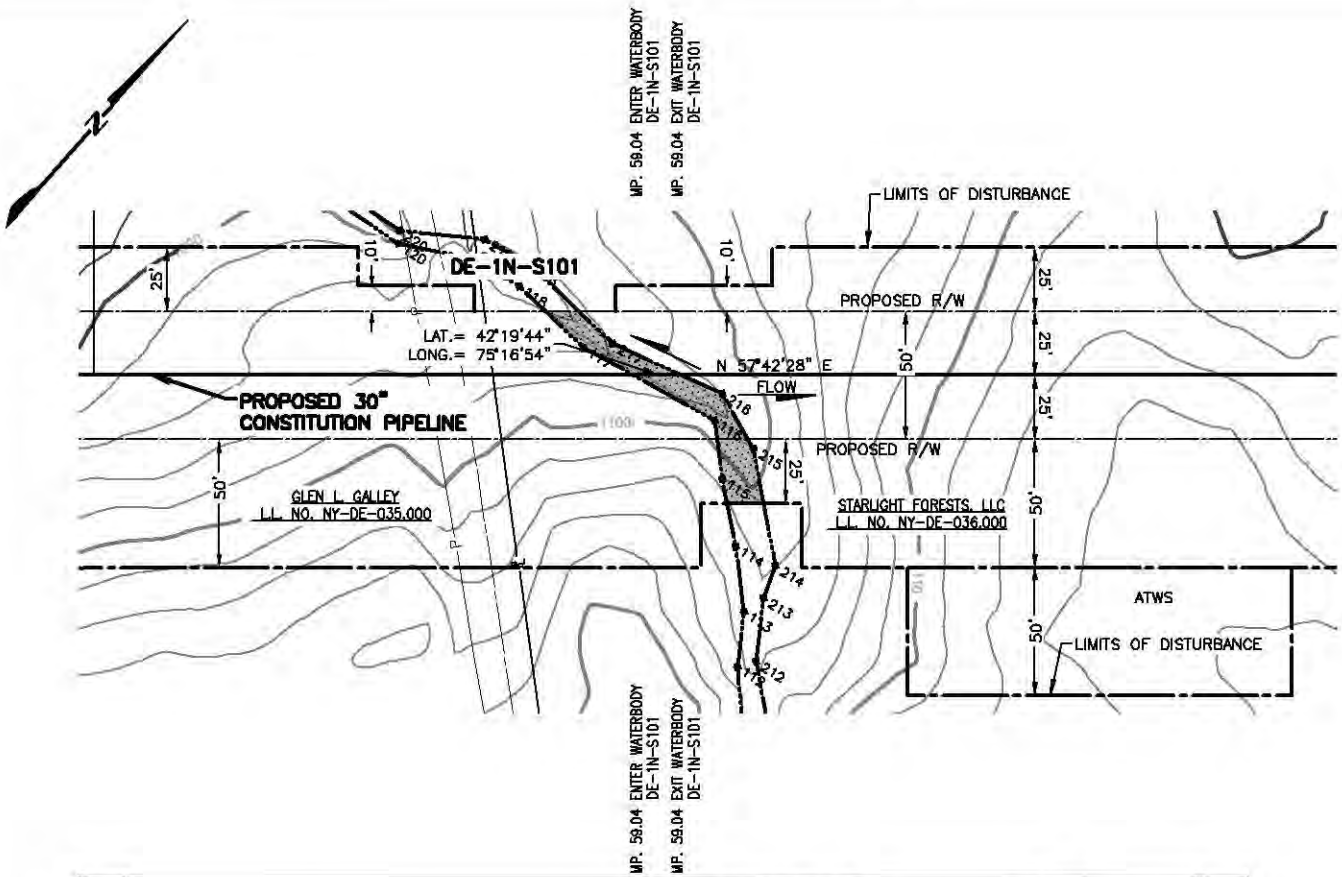
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-08-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-21-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	ISSUE FOR USE	1110415		

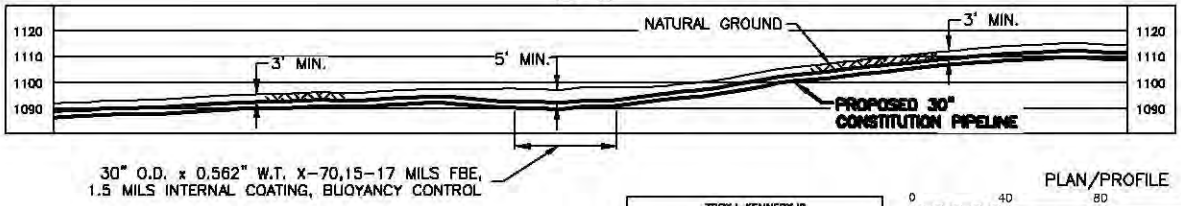
APPLICATION NO.: NAN-2012-00449-UBR

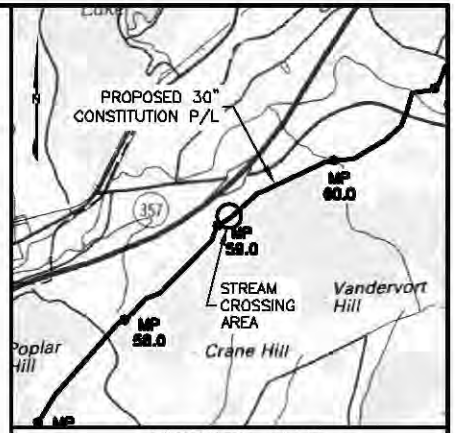
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1S-S100 @ M.P. 58.85
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-25-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1S-S100-1-3	SHEET 129 OF 214
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1N-S101	UNT to Pond	Intermittent	19	0.03	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-60	ALIGNMENT SHEET

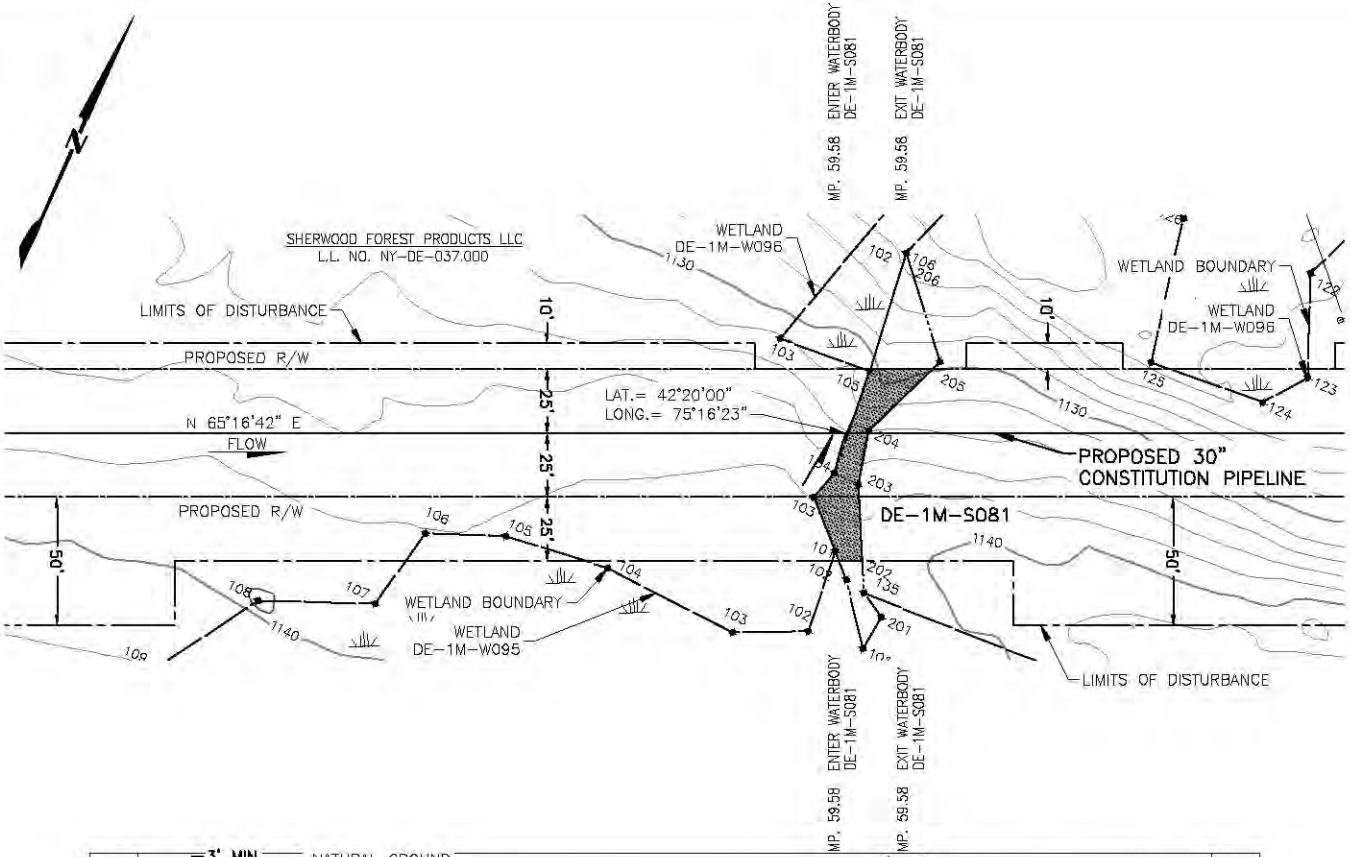
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED- ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-22-13	GIE	ISSUE FOR USE	1110415		

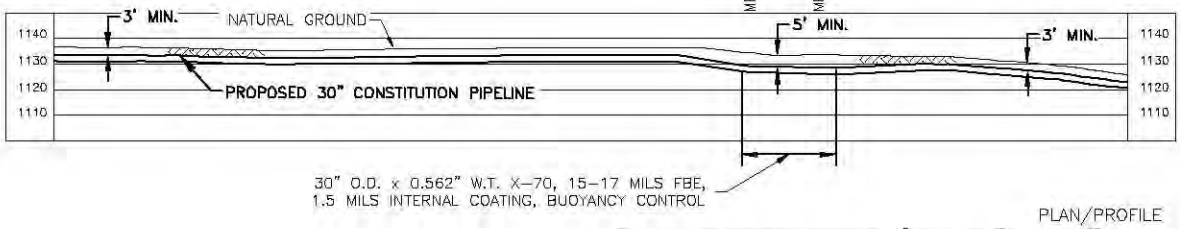
APPLICATION NO.: NAN-2012-00449-UBR

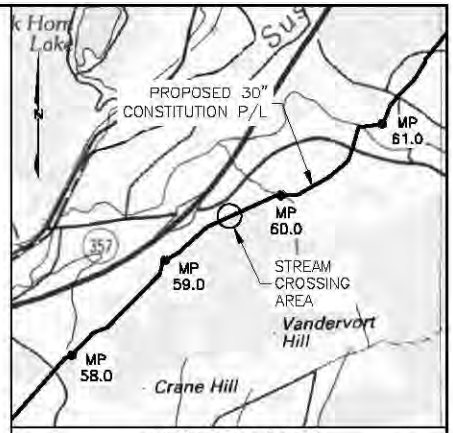
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1N-S101 @ N.P. 59.04
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-27-13	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1N-S101-1-3	SHEET 130 OF 214
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1M-S081	Unt to Ouleout Creek	Intermittent	8	0.02	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-61	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
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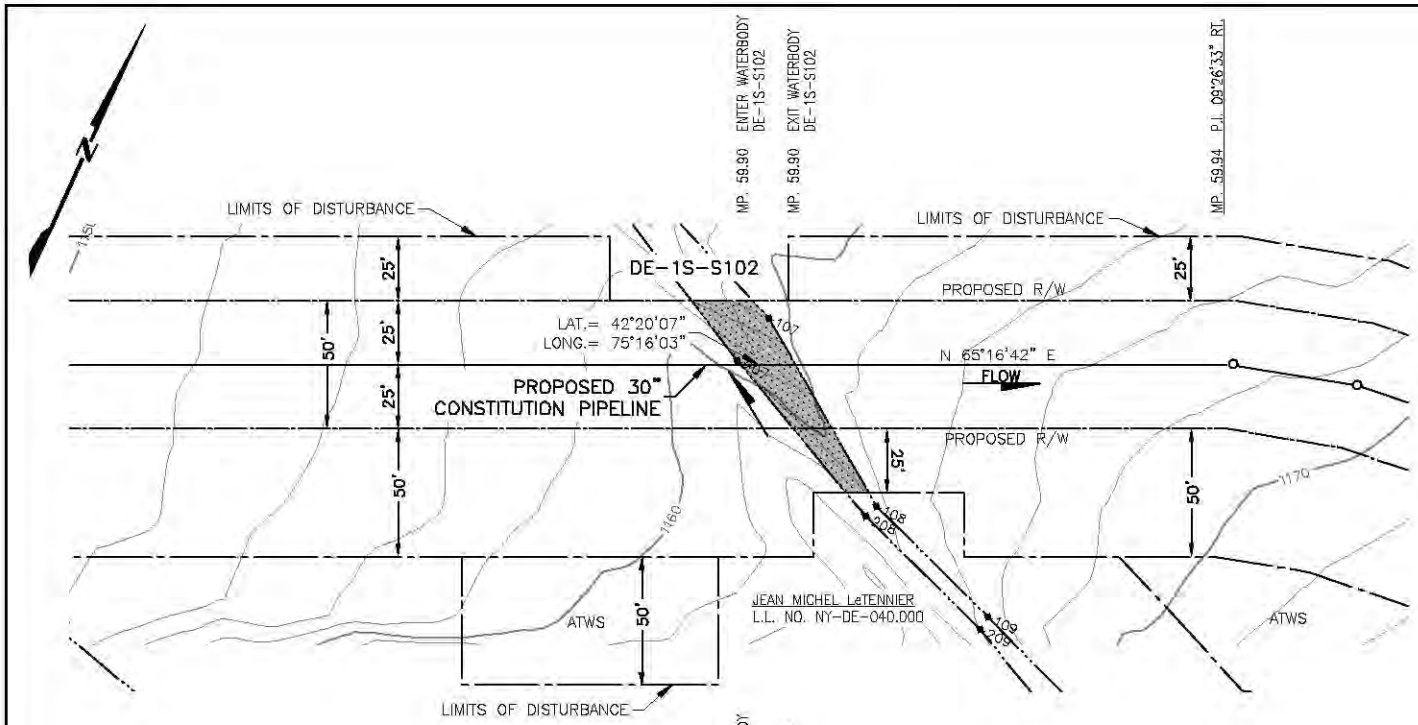
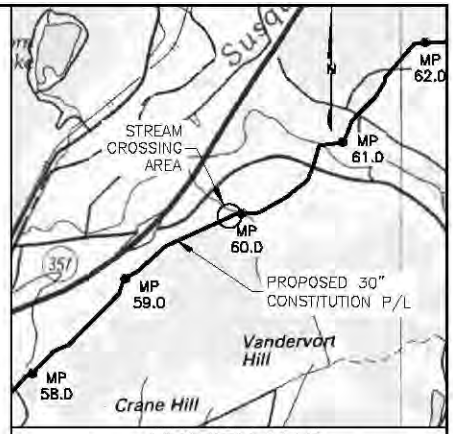
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1M-S081 @ M.P. 59.58
TOWN OF SIDNEY
DELEWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-10-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1M-S081-1-3	SHEET 131 OF 214
WO: 1110415			



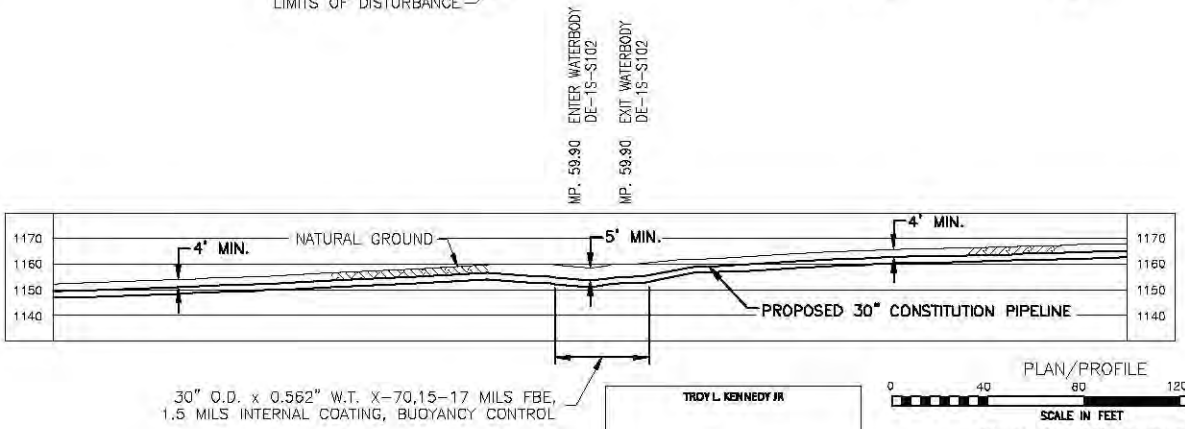


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1S-S102	UNT to Ouleout Creek	Perennial	21	0.03	C	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-61	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	09-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
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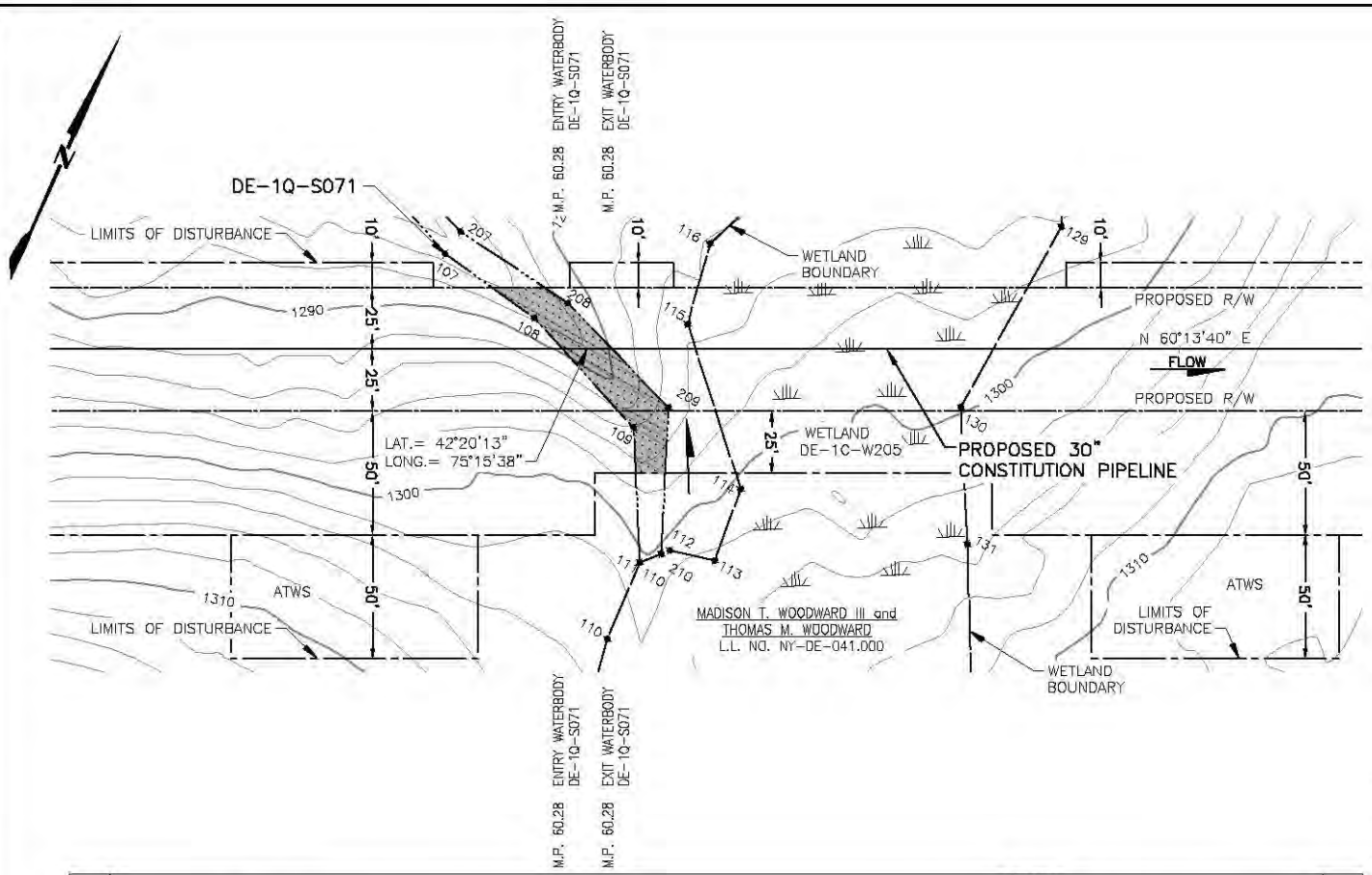
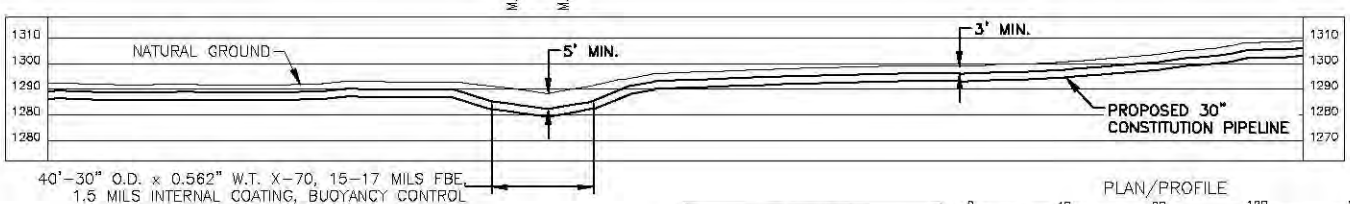
APPLICATION NO.: NAN-2012-00449-UBR

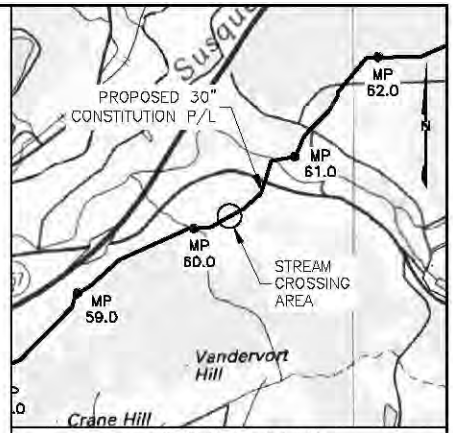
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1S-S102 @ M.P. 59.90
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-01-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1S-S102-1-5	SHEET 132 OF 214
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1Q-S071	UNT to Ouleout Creek	Intermittent	20	0.03	D	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-61	ALIGNMENT SHEET

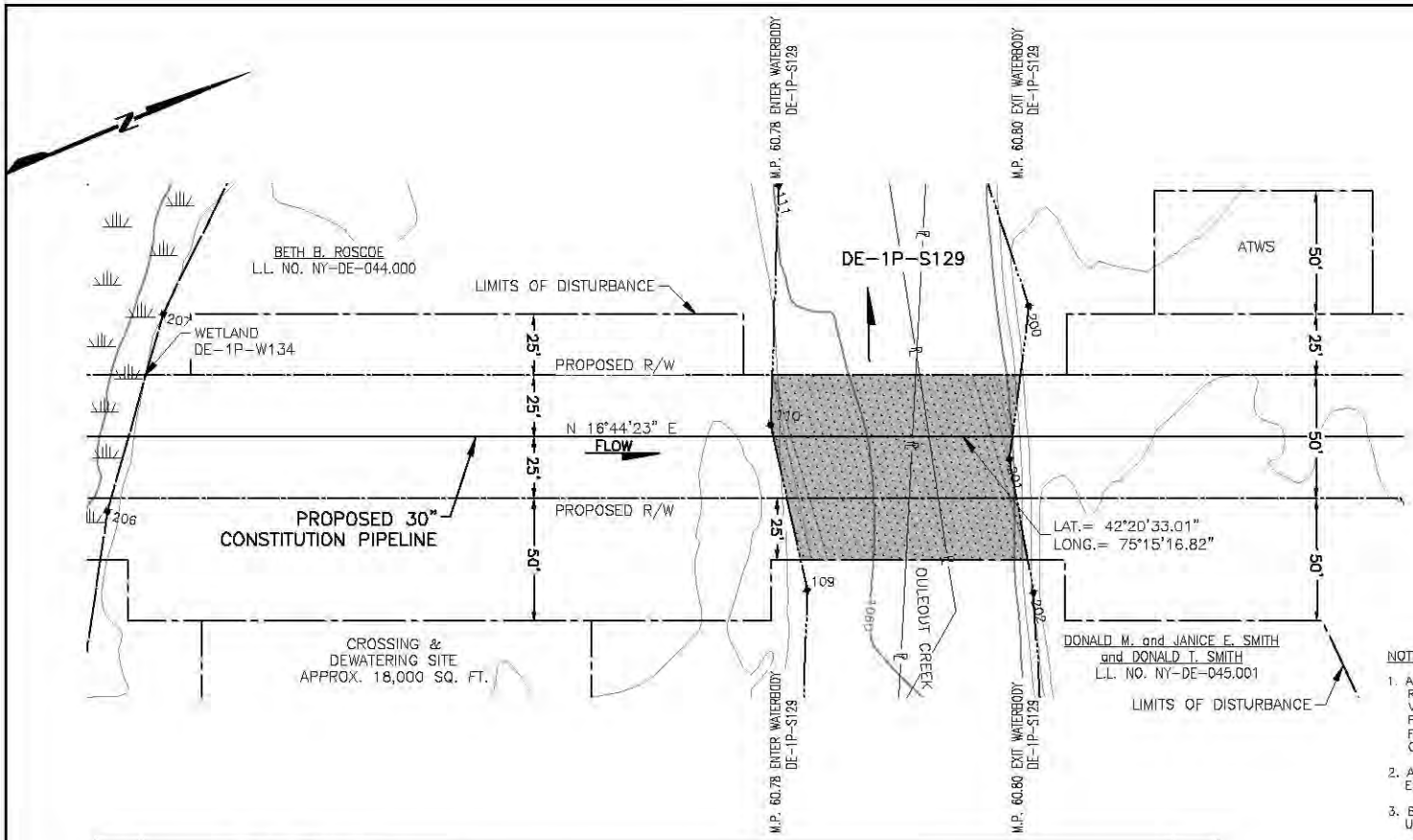
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
D	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-12-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

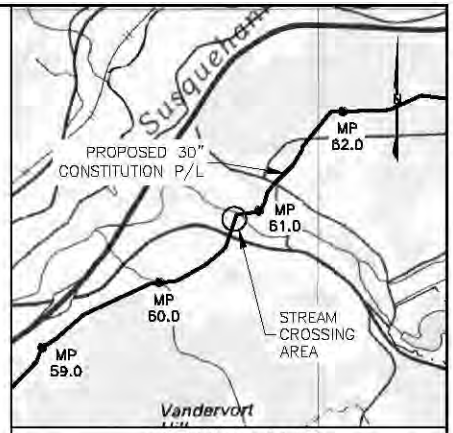
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WATERBODY CROSSING DE-1Q-S071 @ M.P. 60.28
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

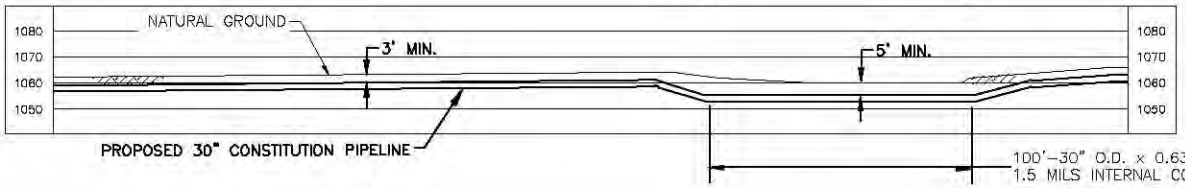
DRAWN BY: GIE	DATE: 03-26-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1Q-S071-1-3	SHEET 133 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S129	Ouleout Creek	Intermittent	98	0.16	C (T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-62	ALIGNMENT SHEET

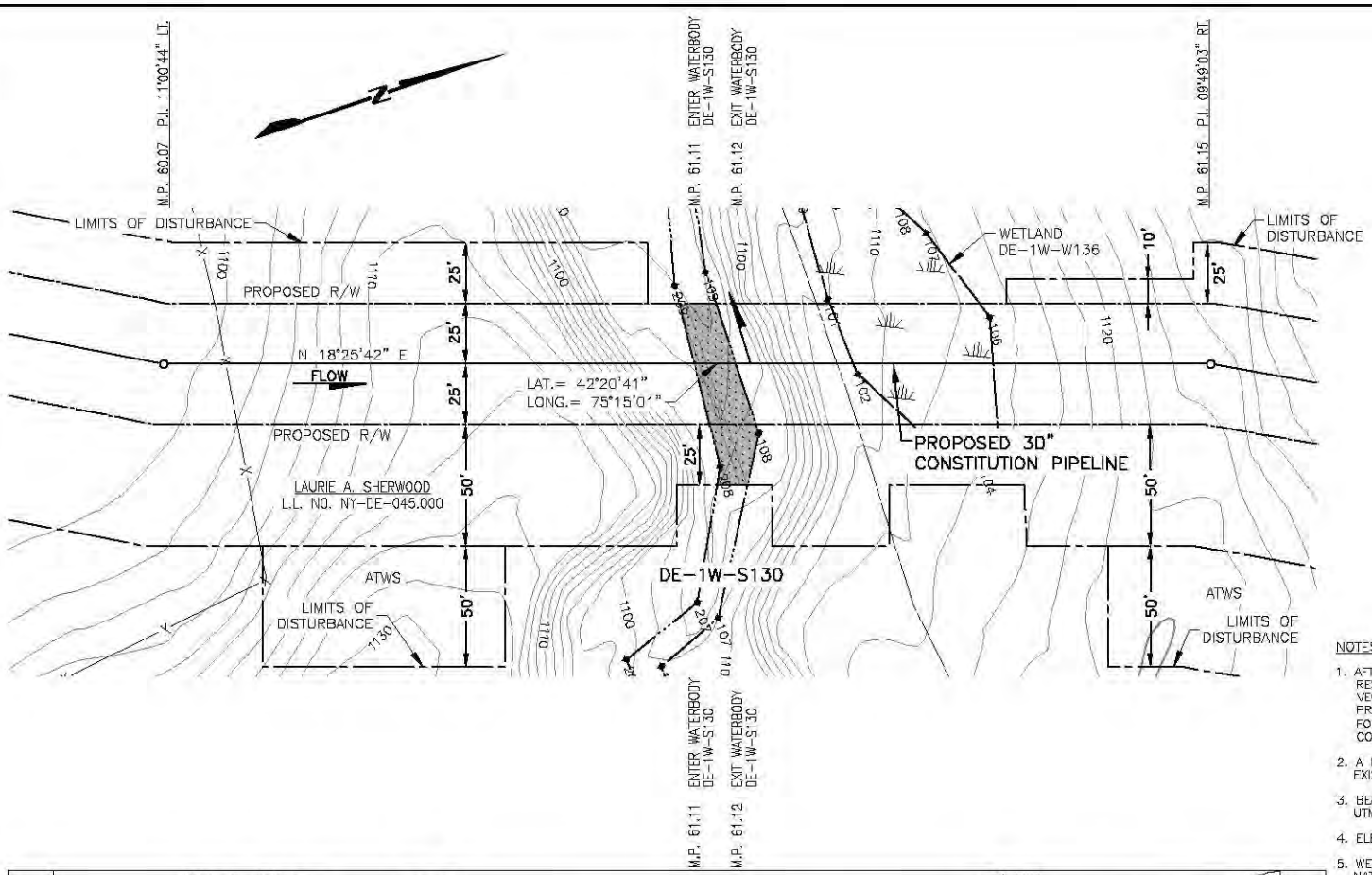
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-21-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-21-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	08-21-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-11-13	GIE	ISSUED FOR USE	1110415		

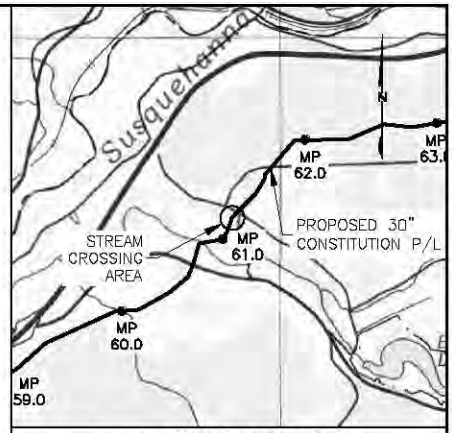
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
WATERBODY CROSSING DE-1P-S129 @ M.P. 60.78
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 03-26-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S129-1-2	SHEET 134 OF 214
WO: 1110415			



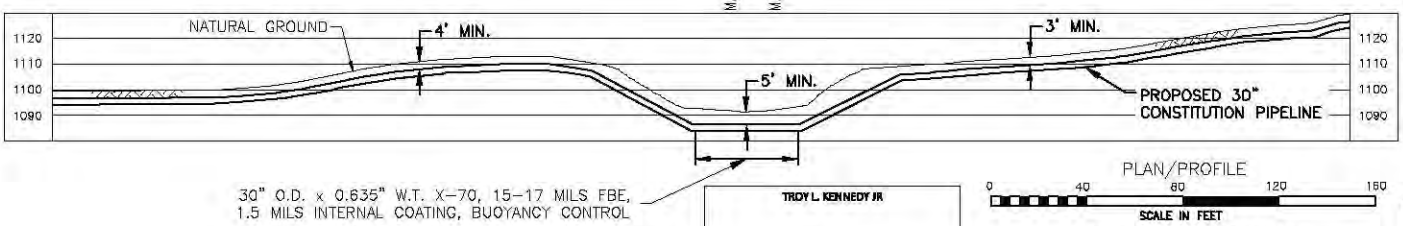


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1W-S130	UNT to Ouleout Creek	Intermittent	17	0.02	C	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-62	ALIGNMENT SHEET

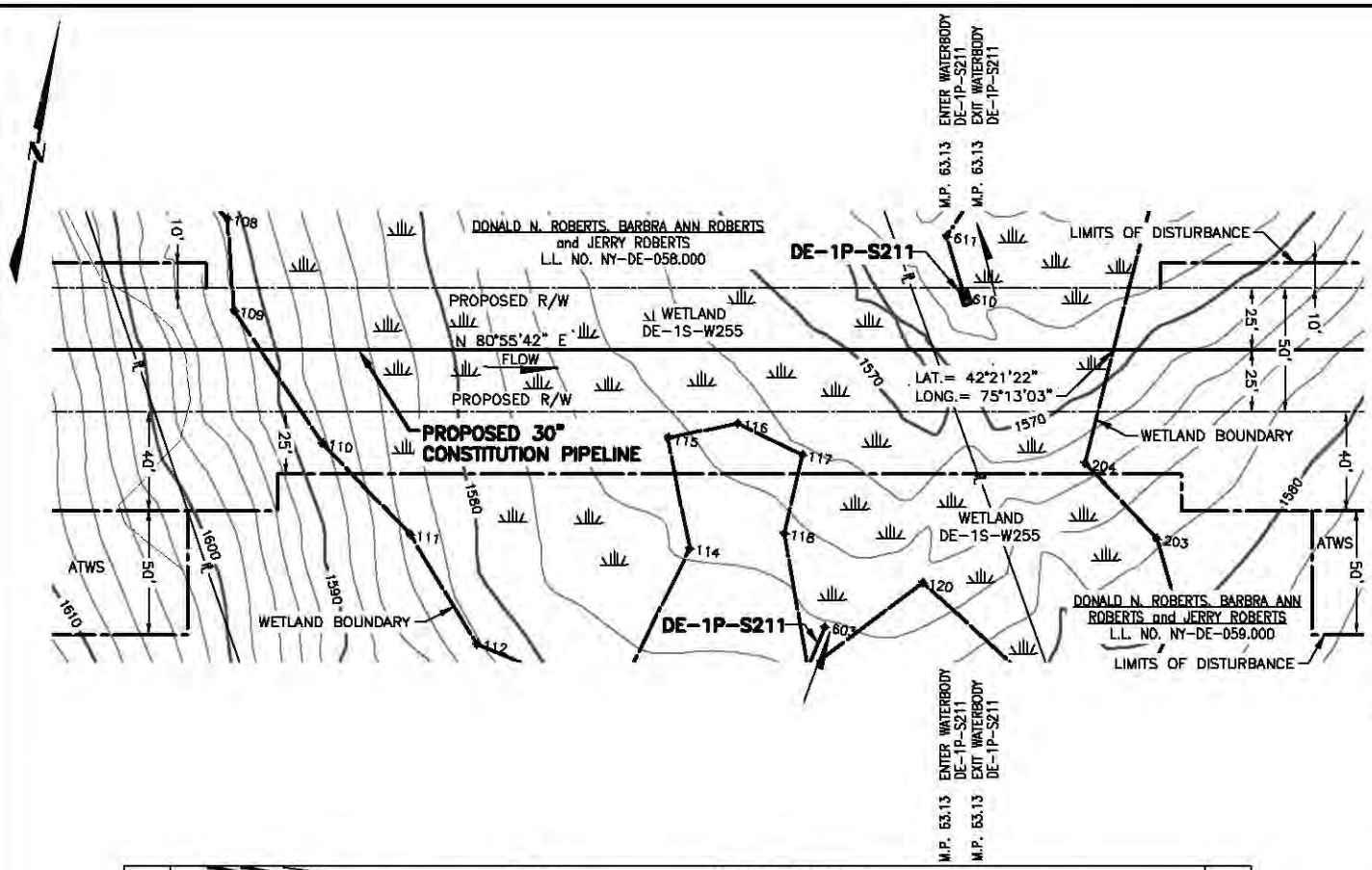
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-10-13	GIE	ISSUE FOR USE	1110415		

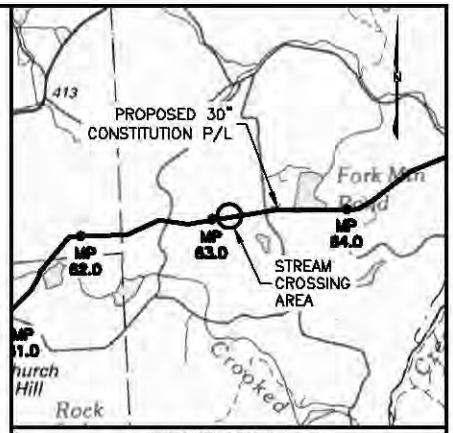
APPLICATION NO.: NAN-2012-00449-UBR

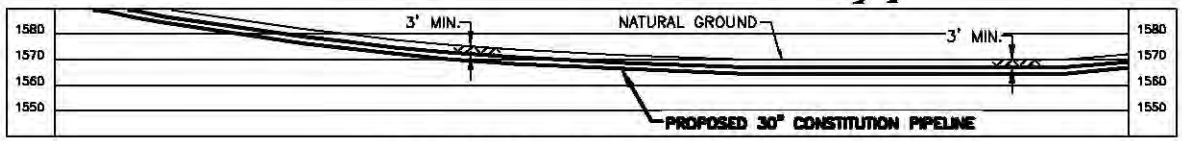
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1W-S130 @ M.P. 61.11
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 03-26-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1W-S130-1-2	SHEET 135 OF 214
WO: 1110415			







30" O.D. x 0.529" W.T. X-70,15-17 MILS FBE,1.5
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S211	UNT to Susquehanna River	Intermittent	0	0.01	C	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-64	ALIGNMENT SHEET

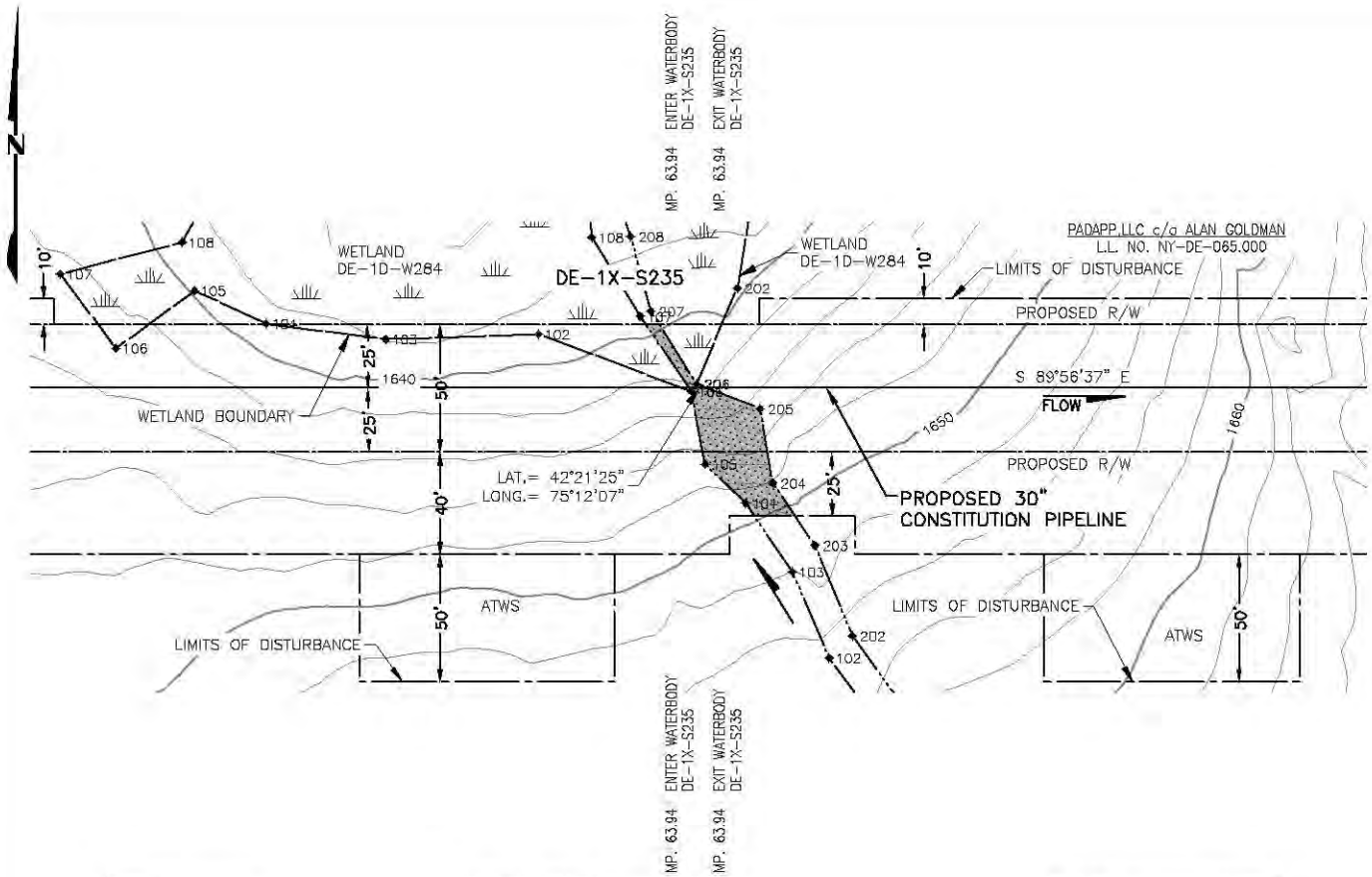
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
B	08-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
1	09-24-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-11-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-23-13	GIE	ISSUE FOR USE	1110415		

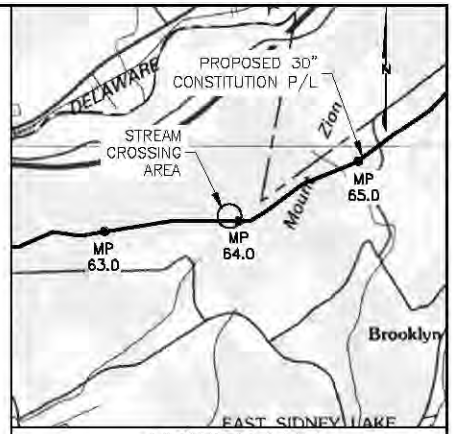
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S211 @ M.P. 63.13
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 03-26-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S211-1-3	SHEET 136 OF 214
WO: 1110415			



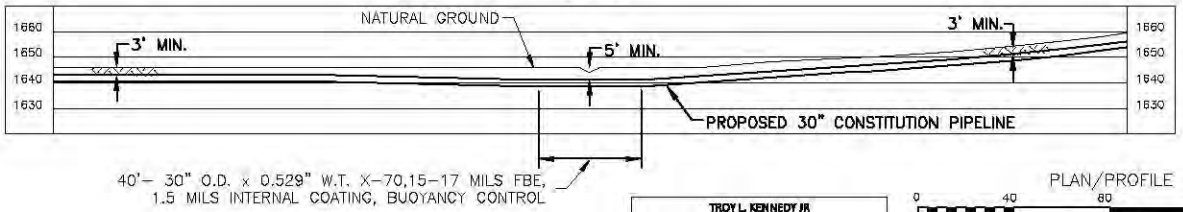


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1X-S235	UNT to **Susquehanna** River	Perrenial	8	0.23	C	N	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-65	ALIGNMENT SHEET

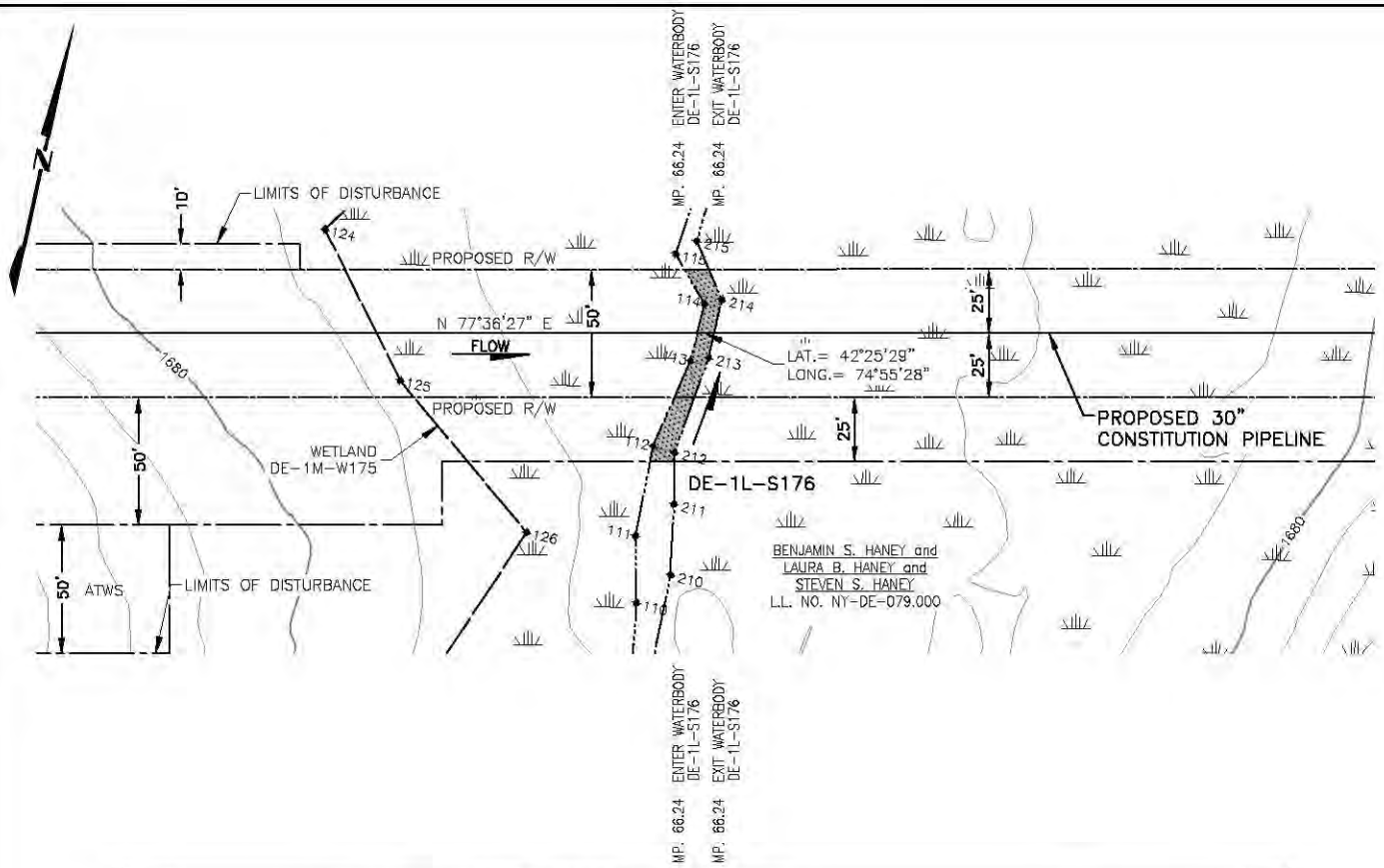
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-13-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUE FOR USE	1110415		
1	09-27-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

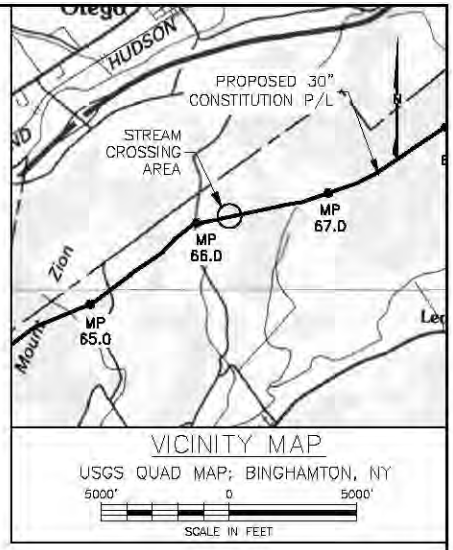
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1X-S235 @ M.P. 63.94
TOWN OF SIDNEY
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-12-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1X-S235-1-2	SHEET 137 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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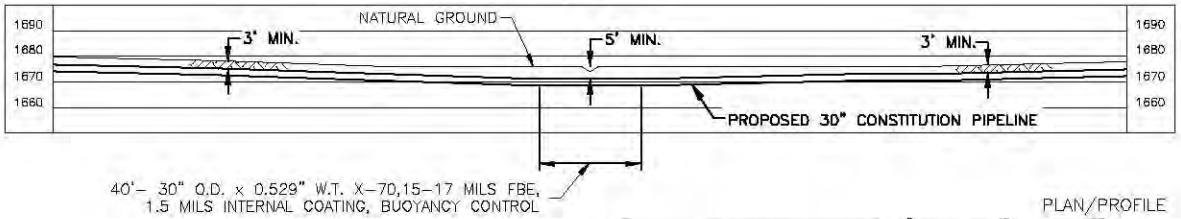


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1L-S176	UNT to Susquehanna River	Intermittent	7	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-68	ALIGNMENT SHEET

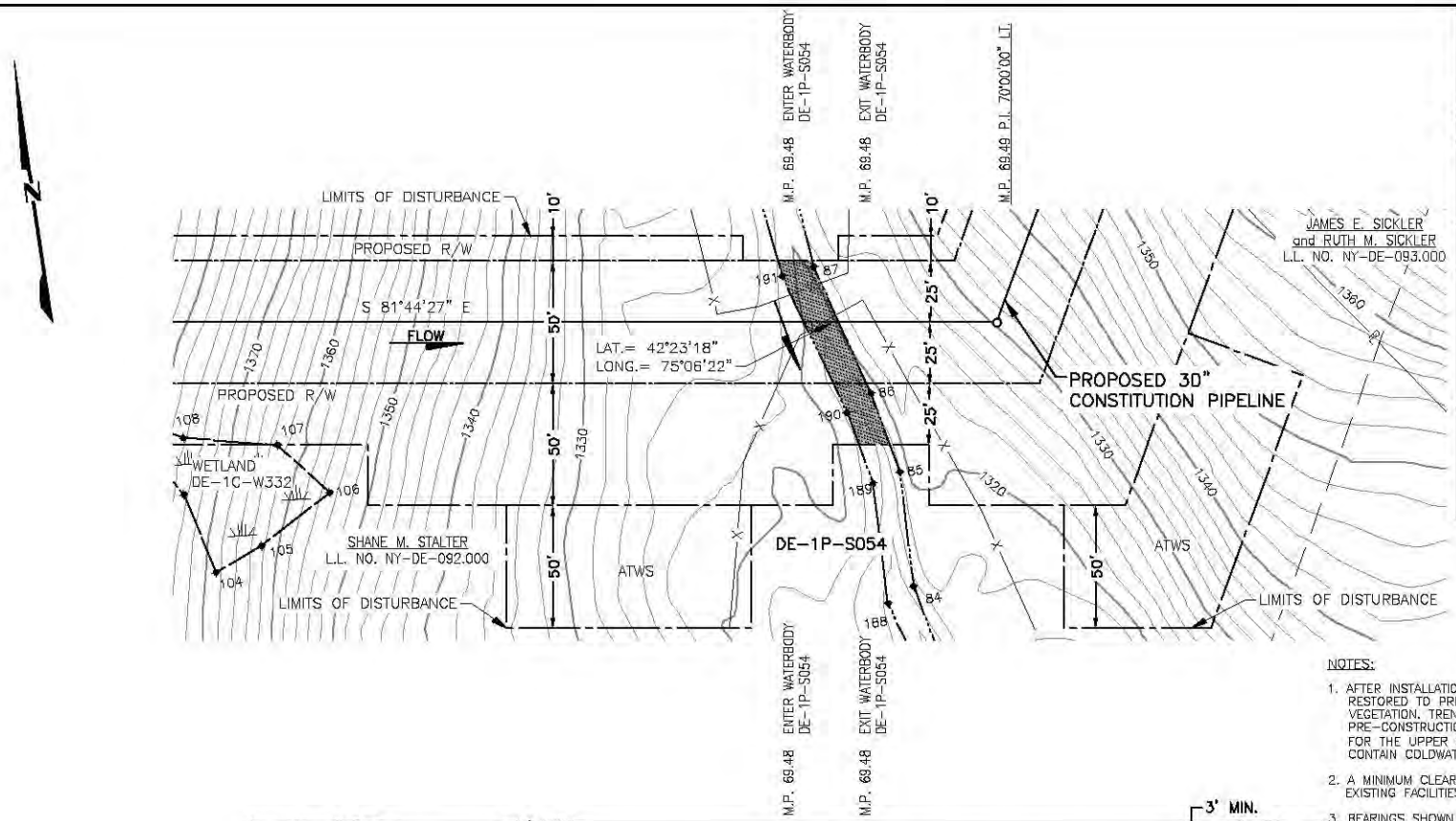
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-08-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-14-13	GIE	ISSUE FOR USE	1110415		
1	09-27-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR REVIEW	1110415		
3	10-18-13	GIE	ISSUE FOR USE	1110415		

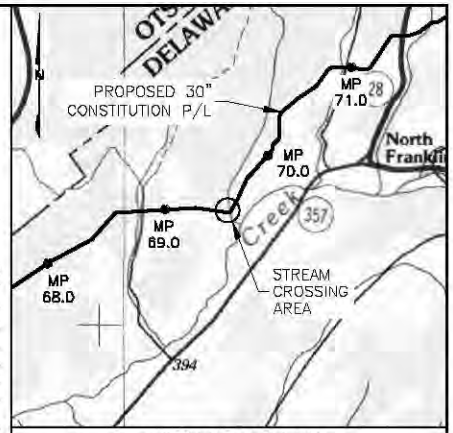
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1L-S176 @ M.P. 66.24
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-27-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1L-S176-1-3	SHEET 138 OF 214
WO: 1110415			



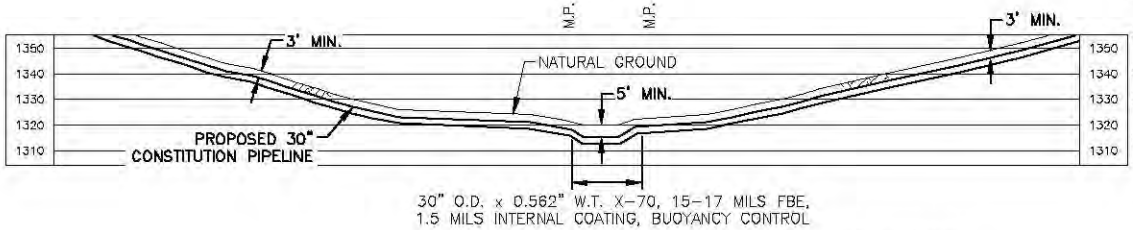


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S054	Unt to Ouleout Creek	Perennial	14	0.02	C (TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-71	ALIGNMENT SHEET

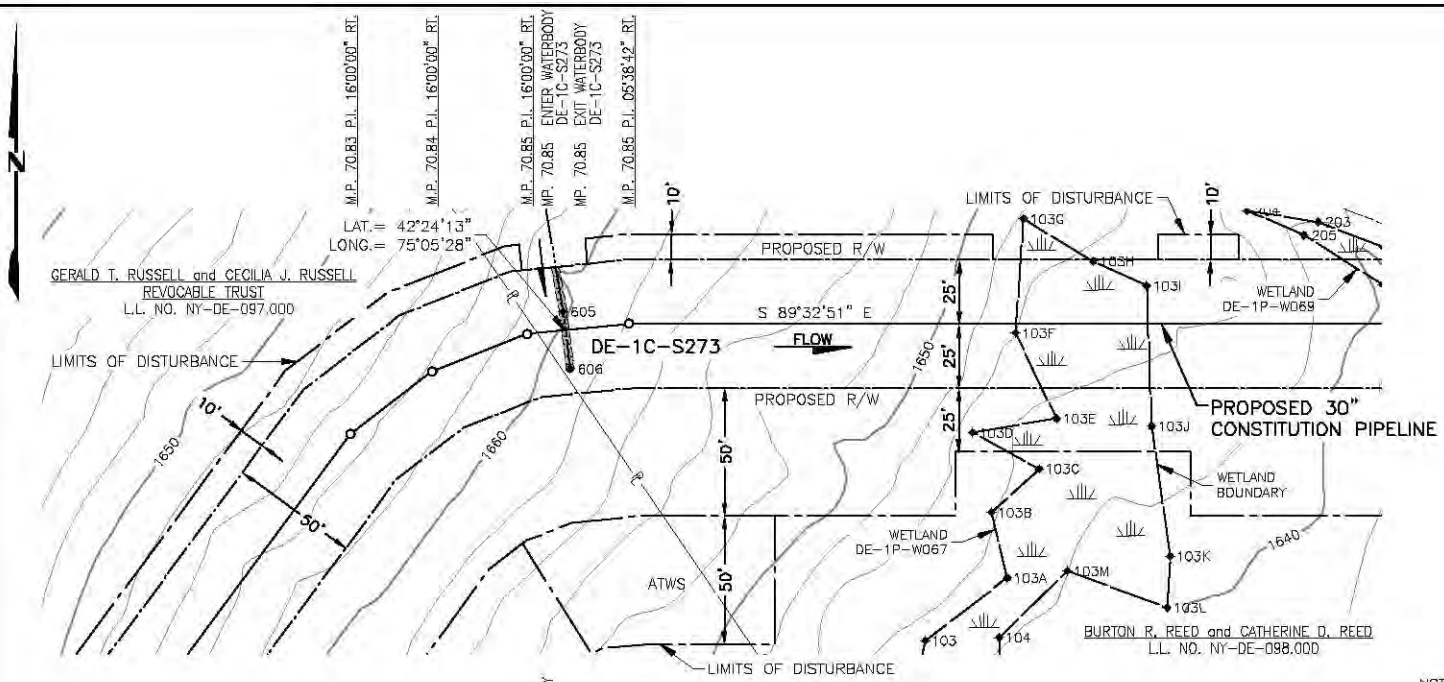
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-21-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUED FOR USE	1110415		
1	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-29-13	GIE	ISSUED FOR USE	1110415		

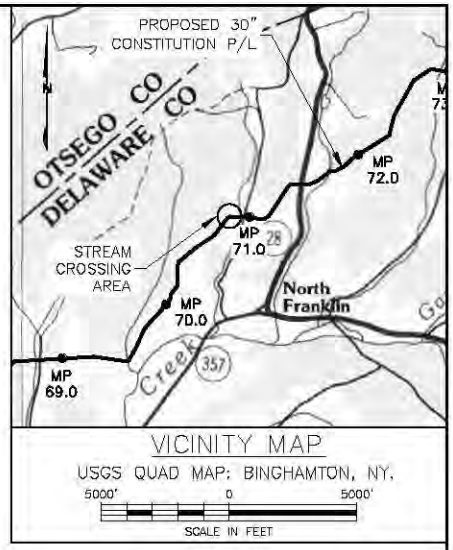
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S054 @ M.P. 69.48
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

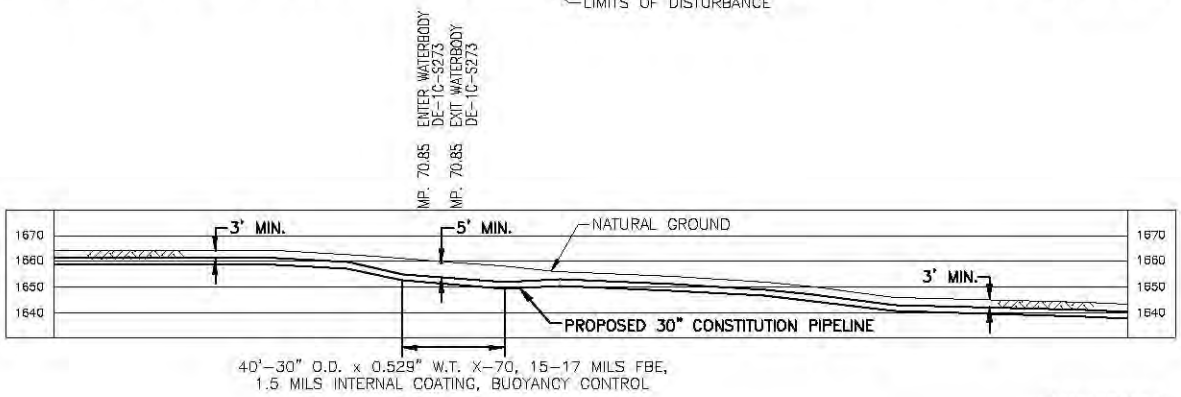
DRAWN BY: GIE	DATE: 05-04-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S054-1-2	SHEET 139 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.



NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S273	UNT to Ouleout Creek	Intermittent	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-72	ALIGNMENT SHEET

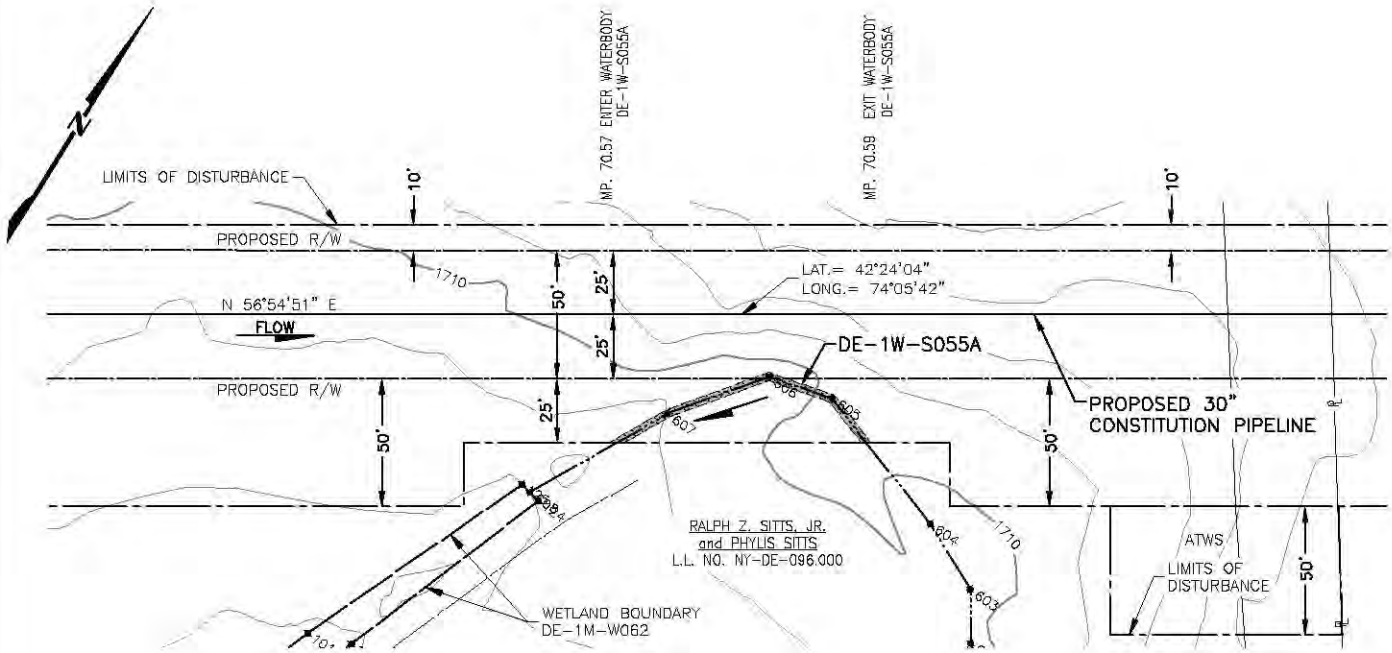
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	11-11-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	11-11-13	GIE	ISSUE FOR USE	1110415		

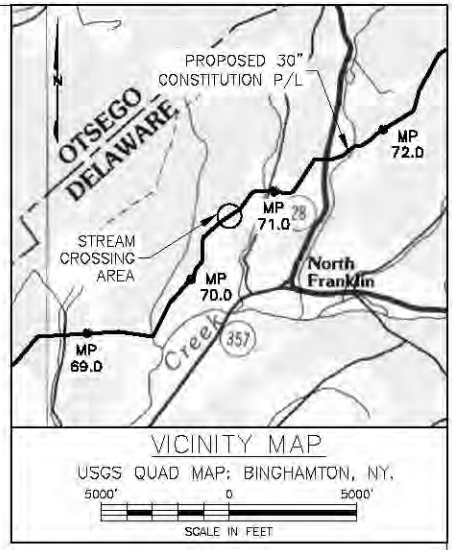
APPLICATION NO.: NAN-2012-00449-UBR

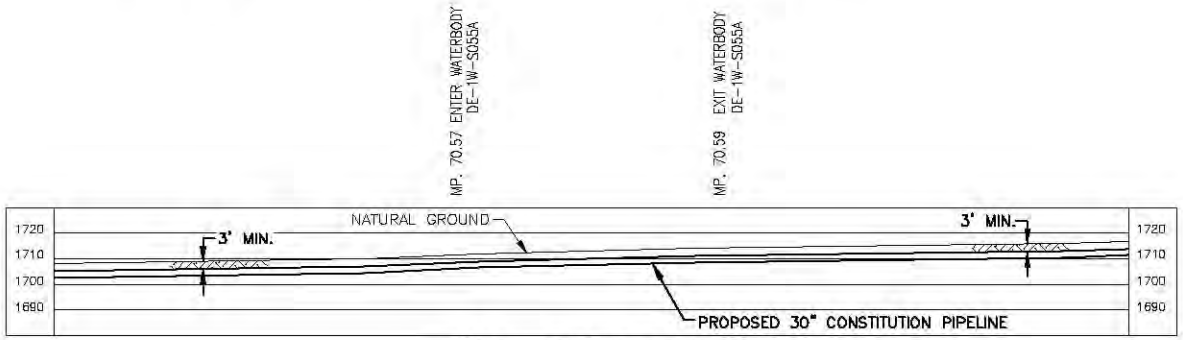
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S273 @ M.P. 70.85
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-01-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S273-1-0	SHEET 140 OF 214
WO: 1110415			







30" O.D. x 0.529" W.T. X-70,15-17
MILS FBE, 1.5 MILS INTERNAL COATING

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1W-S055A	UNT to Ouleout Creek	Ephemeral	0	0.01	D	N	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-72	ALIGNMENT SHEET

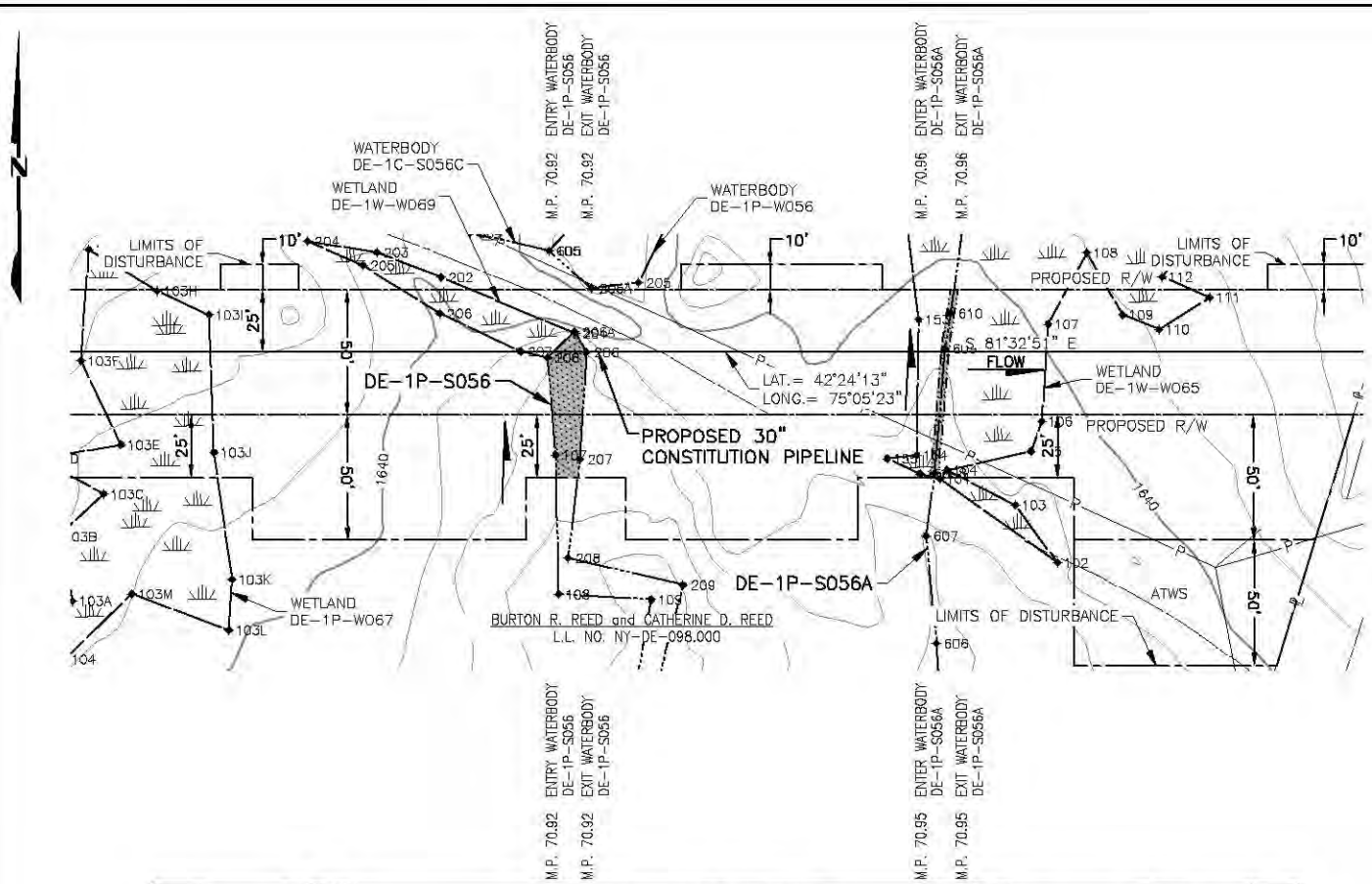
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-08-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-15-13	GIE	REVISED- ISSUED FOR CLIENT REVIEW	1110415		
0	08-18-13	GIE	ISSUED FOR USE	1110415		
1	09-27-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

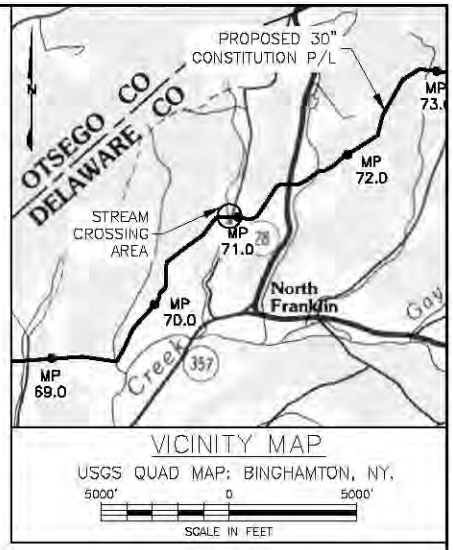
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1W-S055A @ M.P. 70.57
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-27-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1W-S055A-1-2	SHEET 141 OF 214
WO: 1110415			



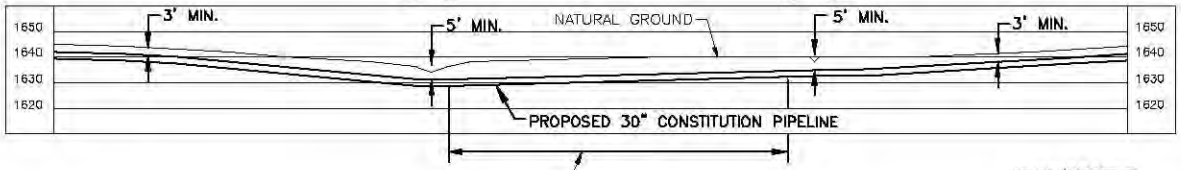


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S056	UNT to Ouleout Creek	Perennial	13	0.02	C(TS)	Y	(TS)	Dry
DE-1P-S056A	UNT to Ouleout Creek	Perennial	3	0.01	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-72	ALIGNMENT SHEET

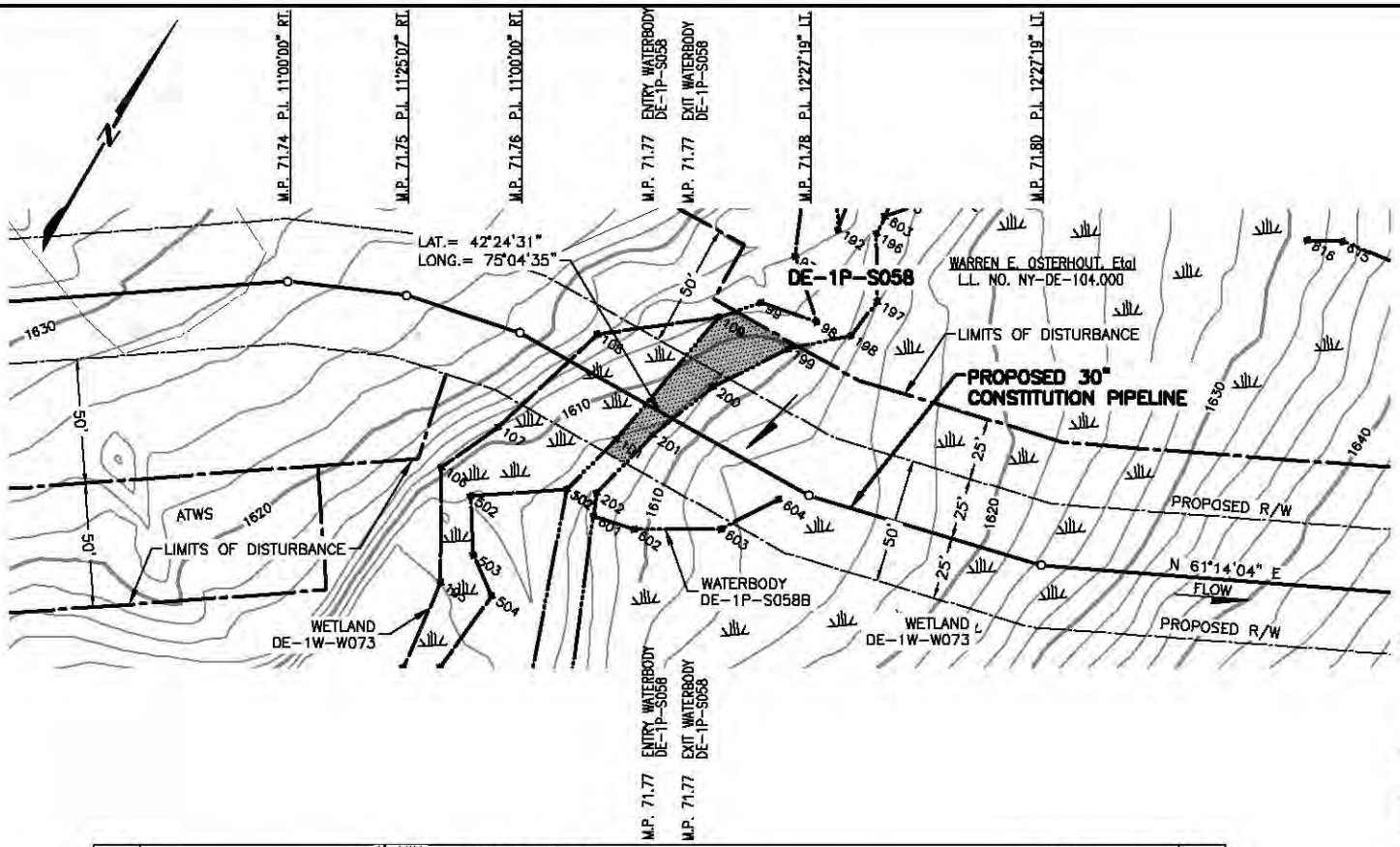
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUED FOR USE	1110415		
1	09-27-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-18-13	GIE	ISSUE FOR USE	1110415		

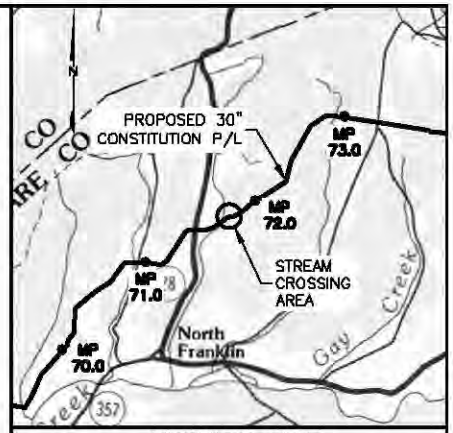
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S056 AND DE-1P-S056A @ M.P. 70.95
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-13-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S056-1-3	SHEET 142 OF 214
WO: 1110415			



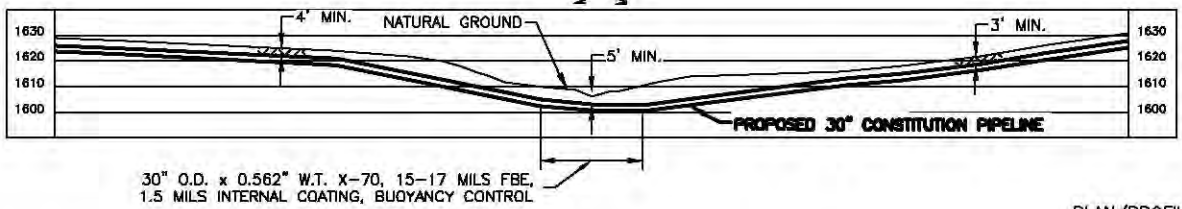


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



NOTES:

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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S058	UNT to Ouleout Creek	Perennial	12	0.03	C (TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-73	ALIGNMENT SHEET

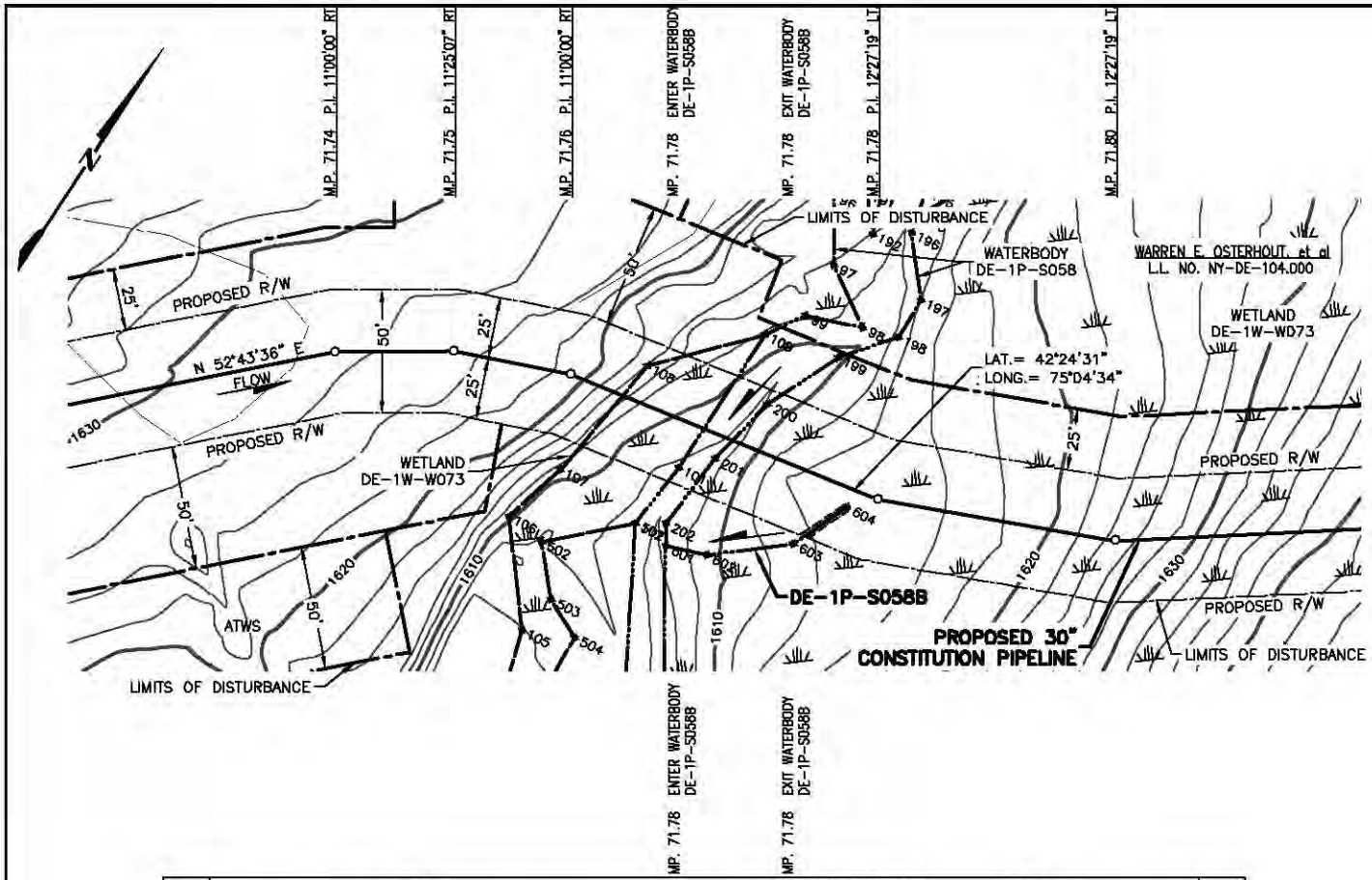
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-12-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-21-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-21-13	GE	ISSUED FOR USE	1110415		
1	09-28-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-07-13	GE	ISSUE FOR USE	1110415		

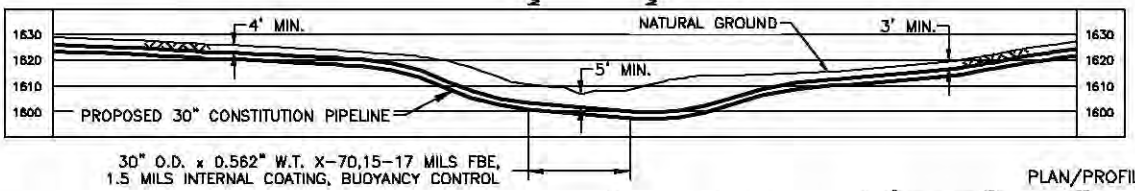
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S058 @ M.P. 71.77
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 04-18-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S058-1-2	SHEET 143 OF 214
WO: 1110415			

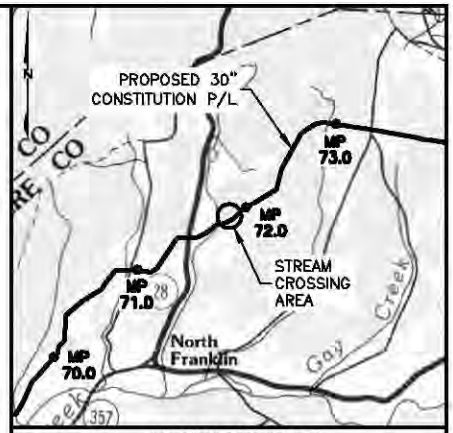




PLAN/PROFILE

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S058B	UNT to Ouleout Creek	Intermittent	0	0.01	C(TS)	Y	(TS)	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-73	ALIGNMENT SHEET

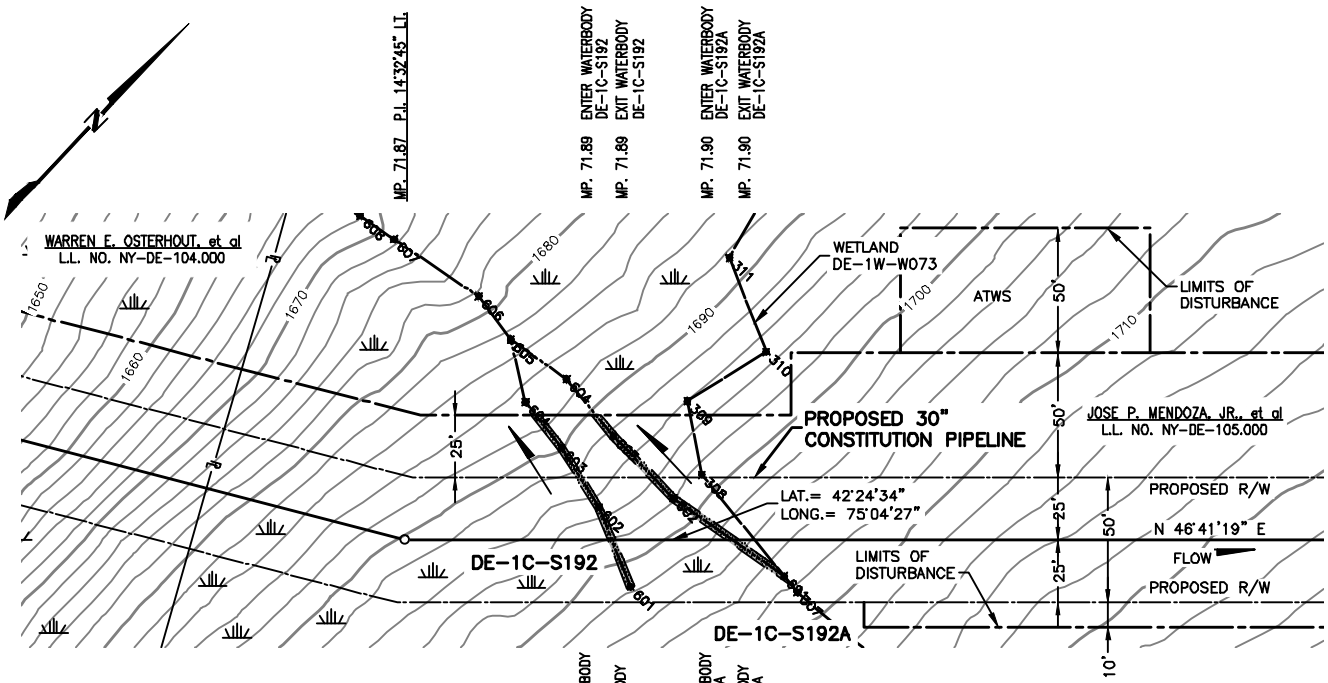
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-12-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-21-13	GIE	ISSUE FOR USE	1110415		
1	09-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

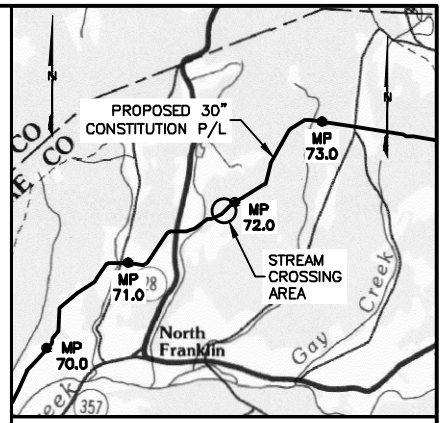
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S058B @ M.P. 71.78
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 04-18-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S058B-1-2	SHEET 144 OF 214
WO: 1110415			



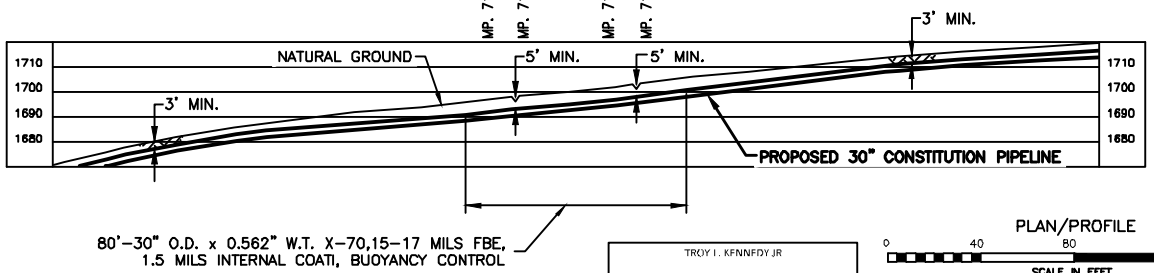


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S192	UNT to Ouleout Creek	Intermittent	3	0.01	C(TS)	Y	(TS)	Dry
DE-1C-S192A	UNT to Ouleout Creek	Intermittent	3	0.01	C(TS)	Y	(TS)	Dry

TROY I. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-73	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

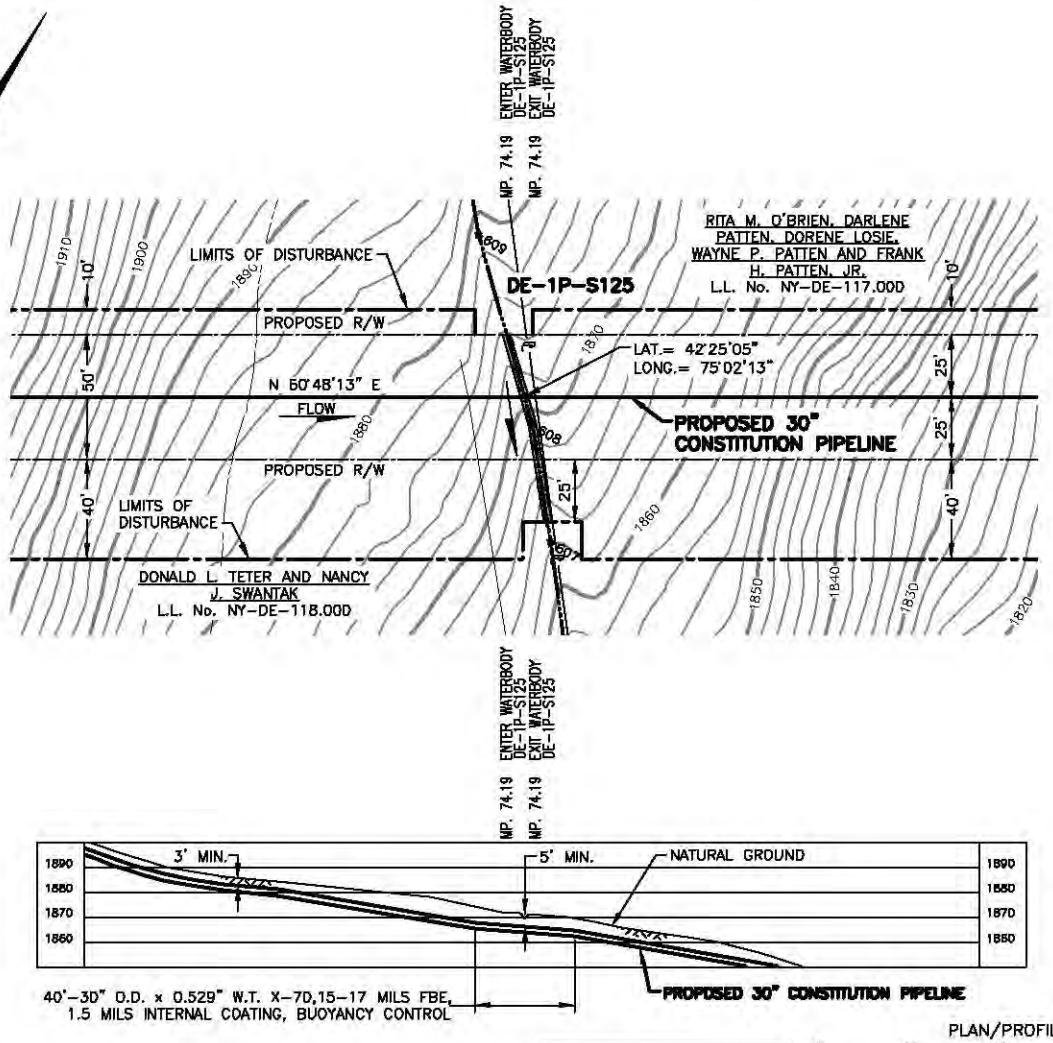
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S192 AND DE-1C-S192A @ M.P. 71.89
TOWN OF FRANKLIN
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 08-06-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S192-1-2	SHEET 145 OF 214
WO 1110415			

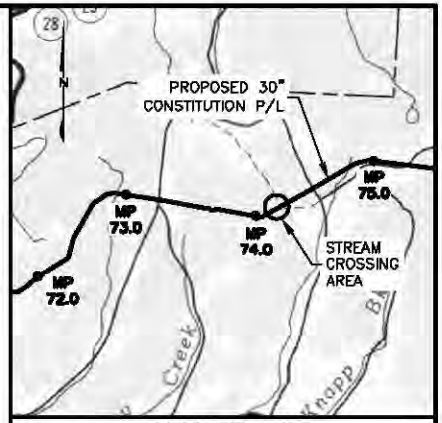


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL



VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S125	UNT of Ouleout Creek	Intermittent	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/D001-76	ALIGNMENT SHEET

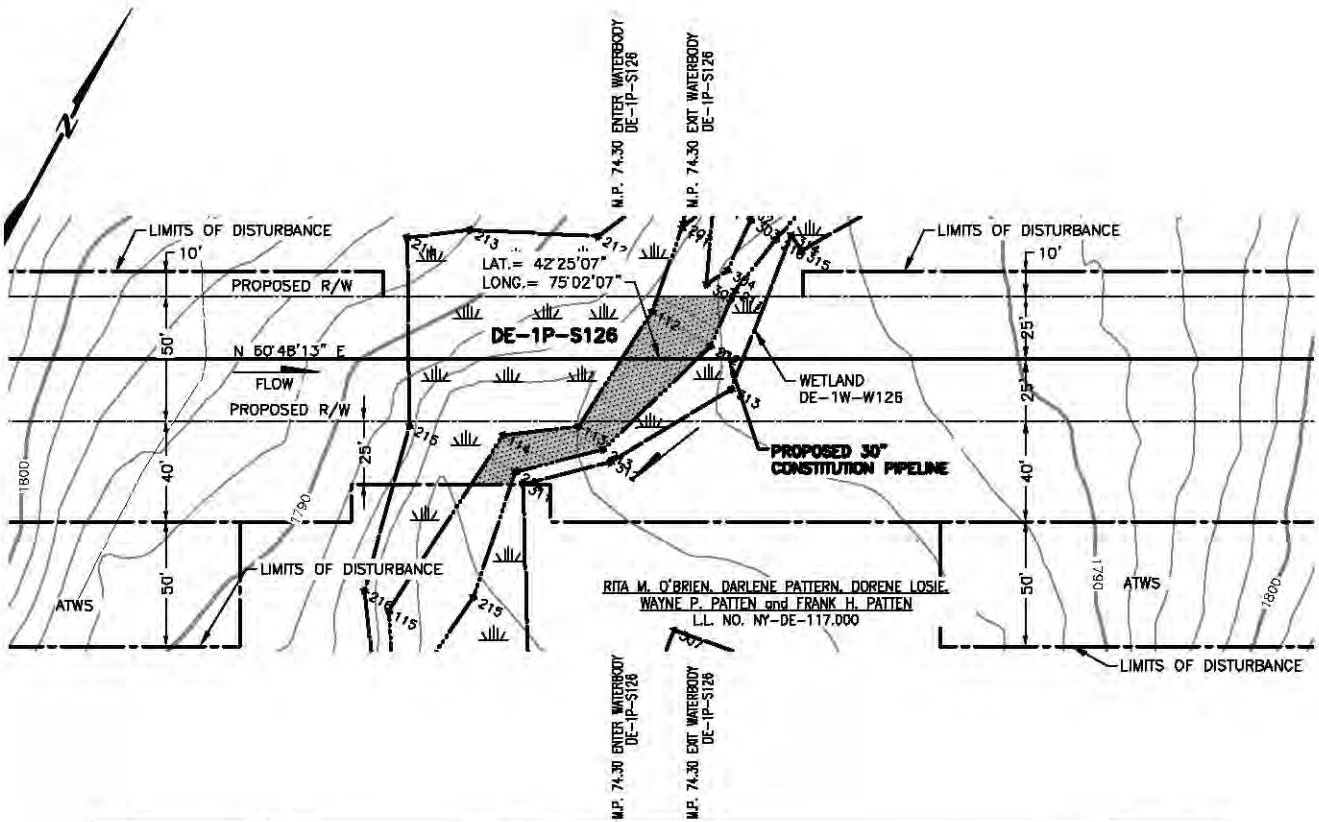
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-03-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	09-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

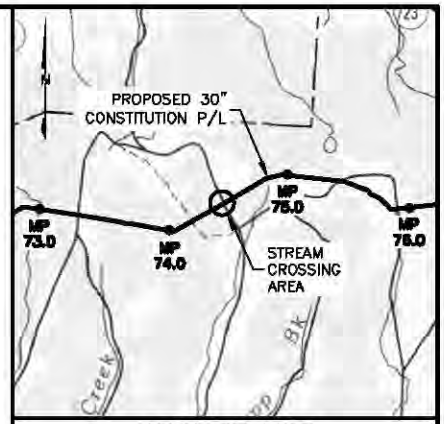
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S125 @ M.P. 74.19
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-29-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S125-1-2	SHEET 146 OF 214
WO: 1110415			



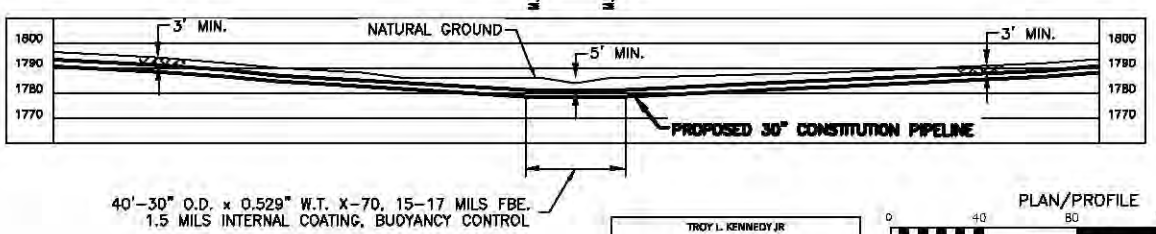


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1P-S126	Unt to Ouleout Creek	Perennial	30	0.049	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
25-25-70/D001-76	ALIGNMENT SHEET

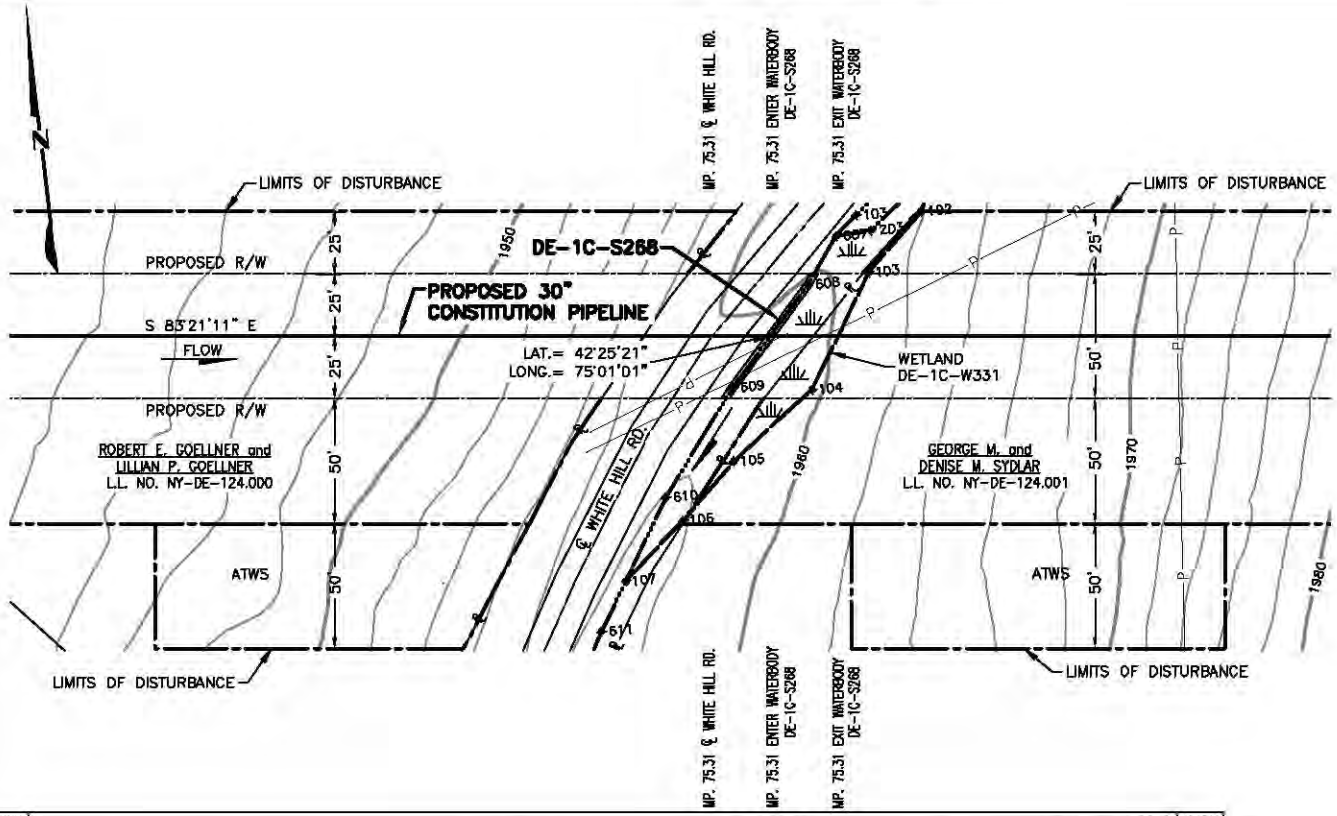
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	05-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	09-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	ISSUE FOR USE	1110415		

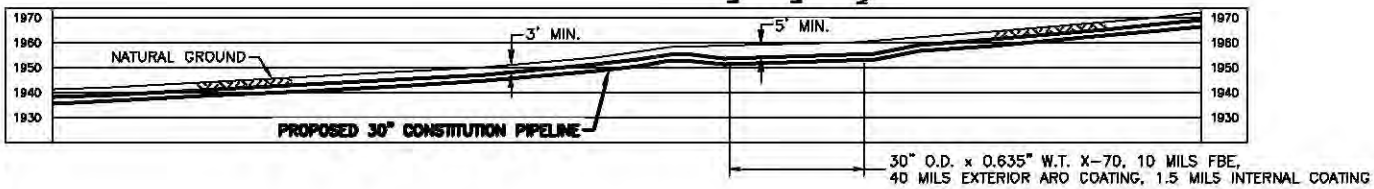
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

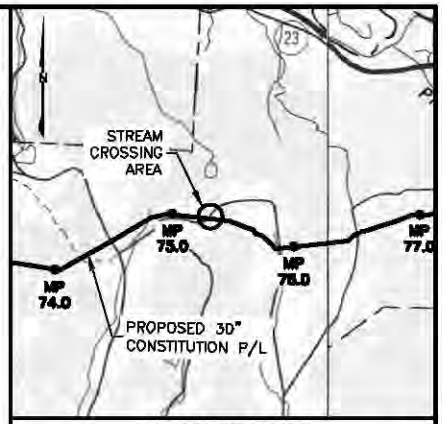
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1P-S126 @ M.P. 74.30
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

DRAWN BY: CJE	DATE: 05-04-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1P-S126-1-2	SHEET 147 OF 214
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY.

5000' 0 5000'

SCALE IN FEET

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1C-S268	Road Ditch	Intermittent	4	0.01	N/A	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

DRAWING NO.	REFERENCE TITLE
26-26-70/D001-77	ALIGNMENT SHEET

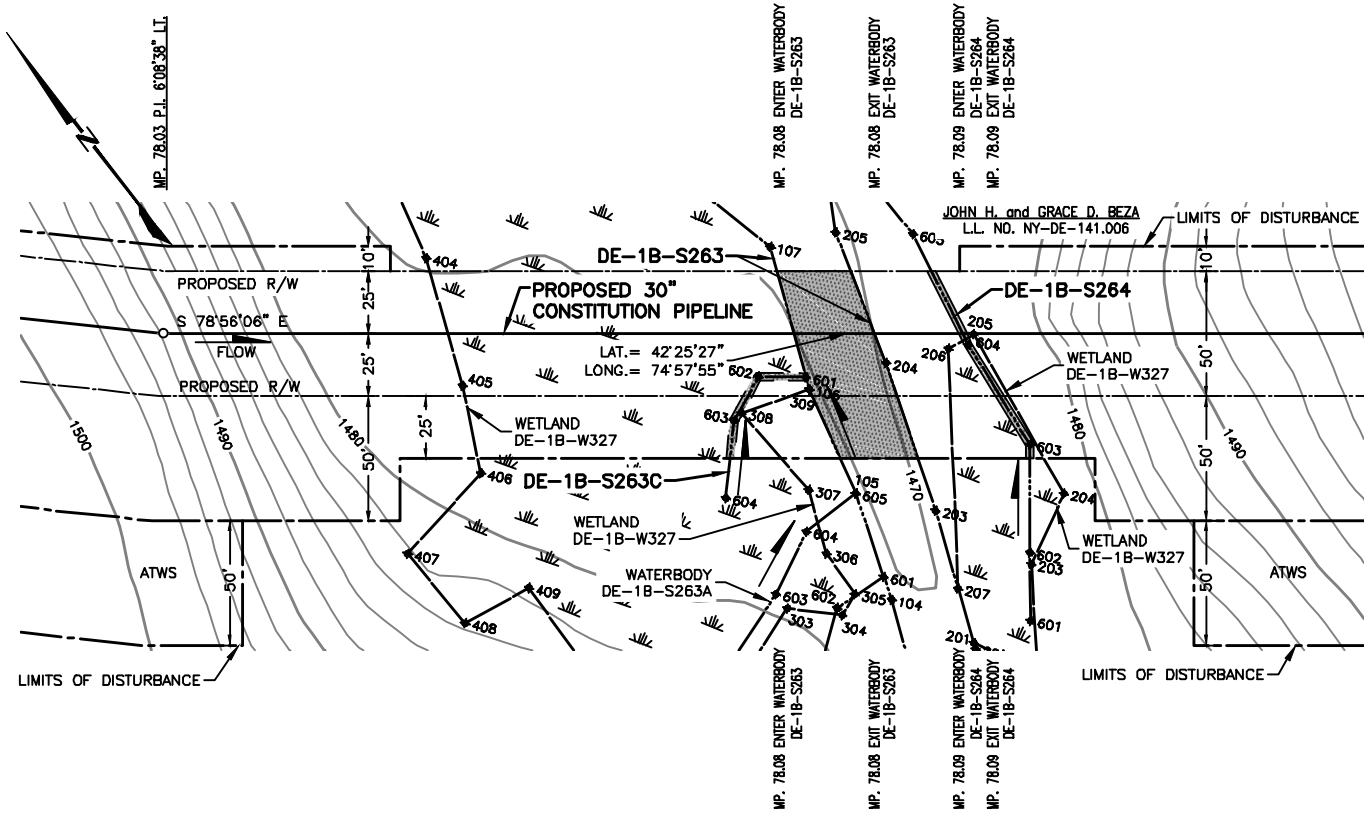
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

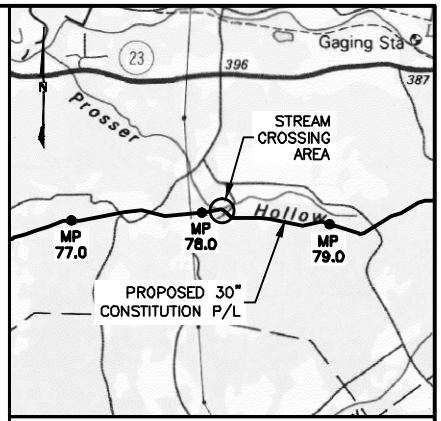
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1C-S268 @ M.P. 75.31
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 10-22-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1C-S268-1-0	SHEET 148 OF 214
WO: 1110415			



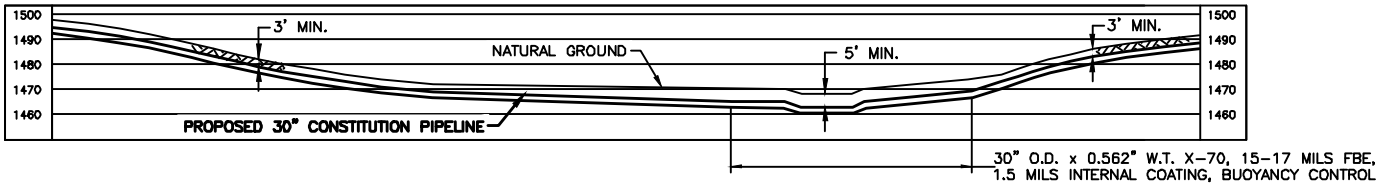


VICINITY MAP

USGS QUAD MAP: PEPACTON RESERVOIR, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1B-S263	Charlotte Creek	Perennial	32	0.05	C (TS)	Y	(TS)	Dry
DE-1B-S263C	Charlotte Creek	Intermittent	0	0.01	C (TS)	Y	(TS)	N/A
DE-1B-S264	Charlotte Creek	Intermittent	4	0.01	C (TS)	Y	(TS)	Dry

TROY I. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-80	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-29-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

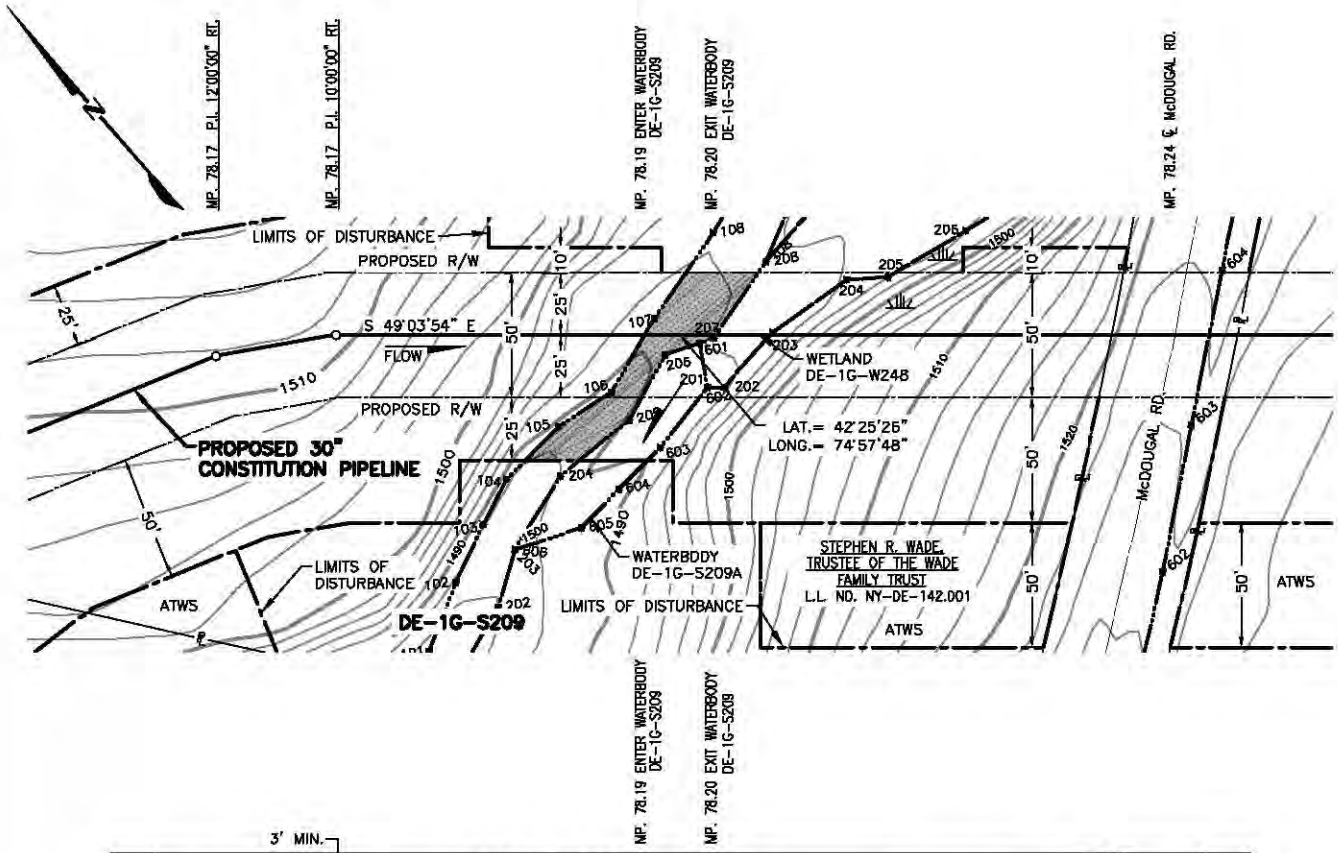
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

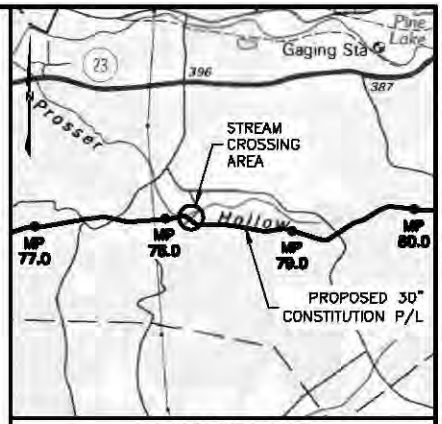
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1B-S263, DE-1B-S263C AND DE-1B-S264 @ M.P. 78.08
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-22-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1B-S263-1-0	SHEET 149 OF 214
WO 1110415			



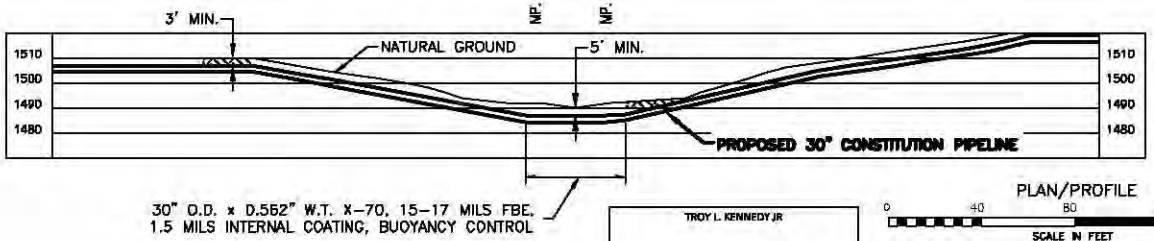


VICINITY MAP

USGS QUAD MAP: PEPACTON RESERVOIR, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
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4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
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6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1G-S209	UNT to Charlotte Creek	Perennial	28	0.04	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
25-25-70/D001-78	ALIGNMENT SHEET

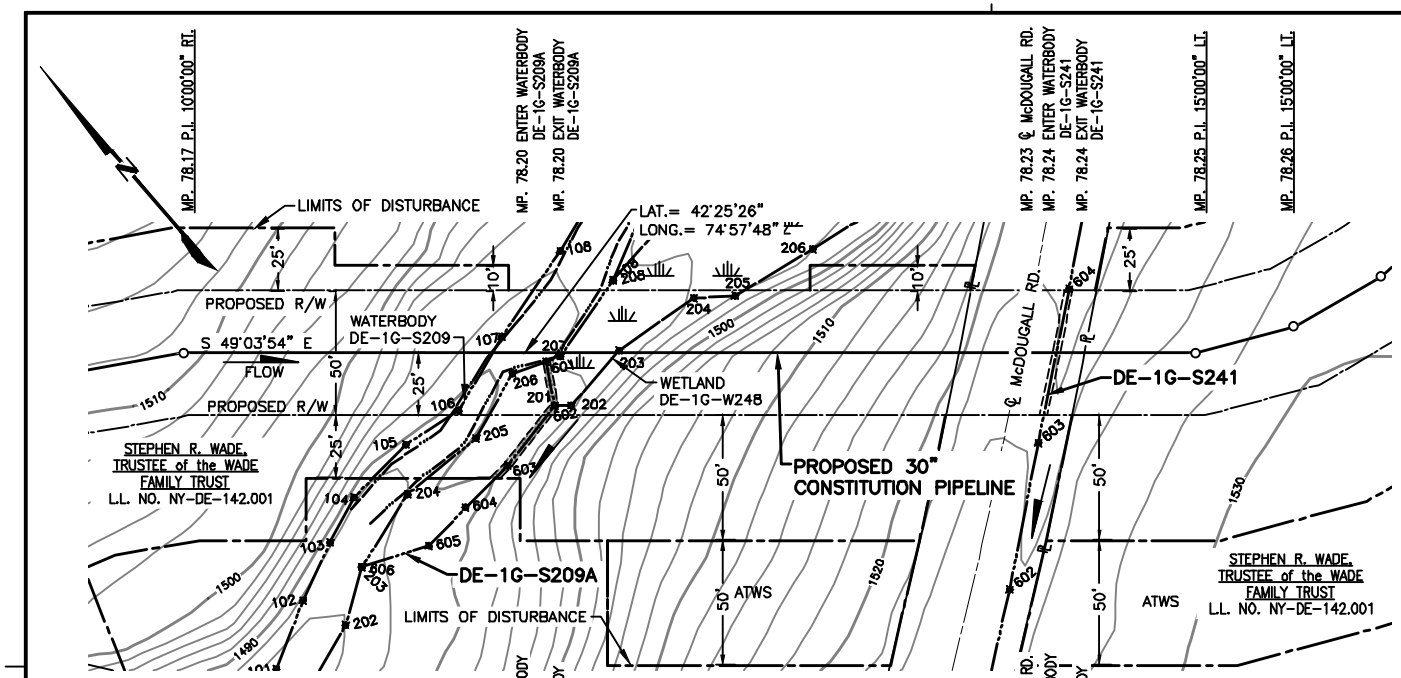
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	05-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-31-13	GIE	ISSUE FOR USE	1110415		

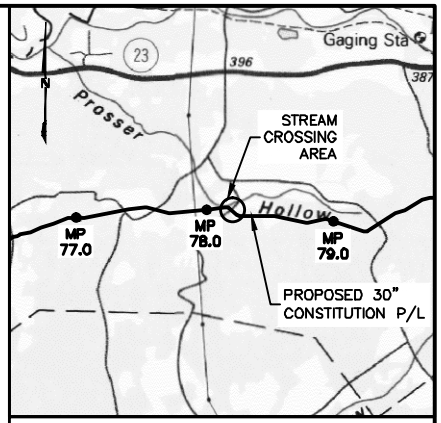
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1G-S209 @ M.P. 78.19
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-14-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1G-S209-1-2	SHEET 150 OF 214
WO: 1110415			



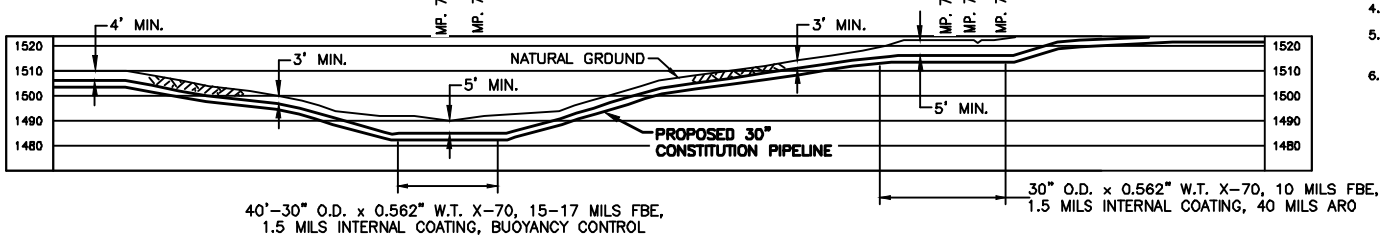


VICINITY MAP

USGS QUAD MAP: PEPACTON RESERVOIR, NY.

5000' 0 5000'

SCALE IN FEET



PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

NOTES:

1. AFTER INSTALLATION OF THE PIPELINE, TRENCHES OUTSIDE THE CHANNEL SHALL BE RESTORED TO PRE-CONSTRUCTION ELEVATION AND STABILIZED WITH NATIVE VEGETATION. TRENCHES INSIDE THE CHANNEL SHALL BE BACKFILLED TO PRE-CONSTRUCTION ELEVATIONS. CLEAN ROCK OR NATIVE COBBLES WILL BE USED FOR THE UPPER ONE(1) FOOT OF TRENCH BACKFILL IN WATERBODIES THAT CONTAIN COLDWATER FISHERIES.
2. A MINIMUM CLEARANCE OF 24 INCHES BETWEEN THE PROPOSED PIPELINE AND ANY EXISTING FACILITIES WILL BE MAINTAINED.
3. BEARINGS SHOWN ARE GRID AND REFERENCED TO THE UTM 18N NAD83, US SURVEY FEET.
4. ELEVATIONS SHOWN ARE REFERENCED TO THE NAVD88 US SURVEY FEET.
5. WETLANDS AND WATERBODIES ON NO ACCESS PARCEL IDENTIFIED USING NATIONAL WETLANDS INVENTORY AND NATIONAL HYDROGRAPHY DATASET INFORMATION.
6. THE LOCATION OF TRENCH BREAKERS, SLOPE BREAKERS (WATERBARS) AND ALL BMP'S ARE INDICATED ON THE ALIGNMENT SHEETS AND FURTHER DETAILED WITHIN ECP BMP TYPICAL DETAILS.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1G-S209A	UNT to Charlotte creek	Perennial	0	0.01	C (TS)	Y	(TS)	N/A
DE-1G-S241	Road Ditch	Intermittent	3	0.00	N/A	N	N/A	Conventional Bore

TROY I. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-80	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
8	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	09-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GIE	ISSUE FOR USE	1110415		

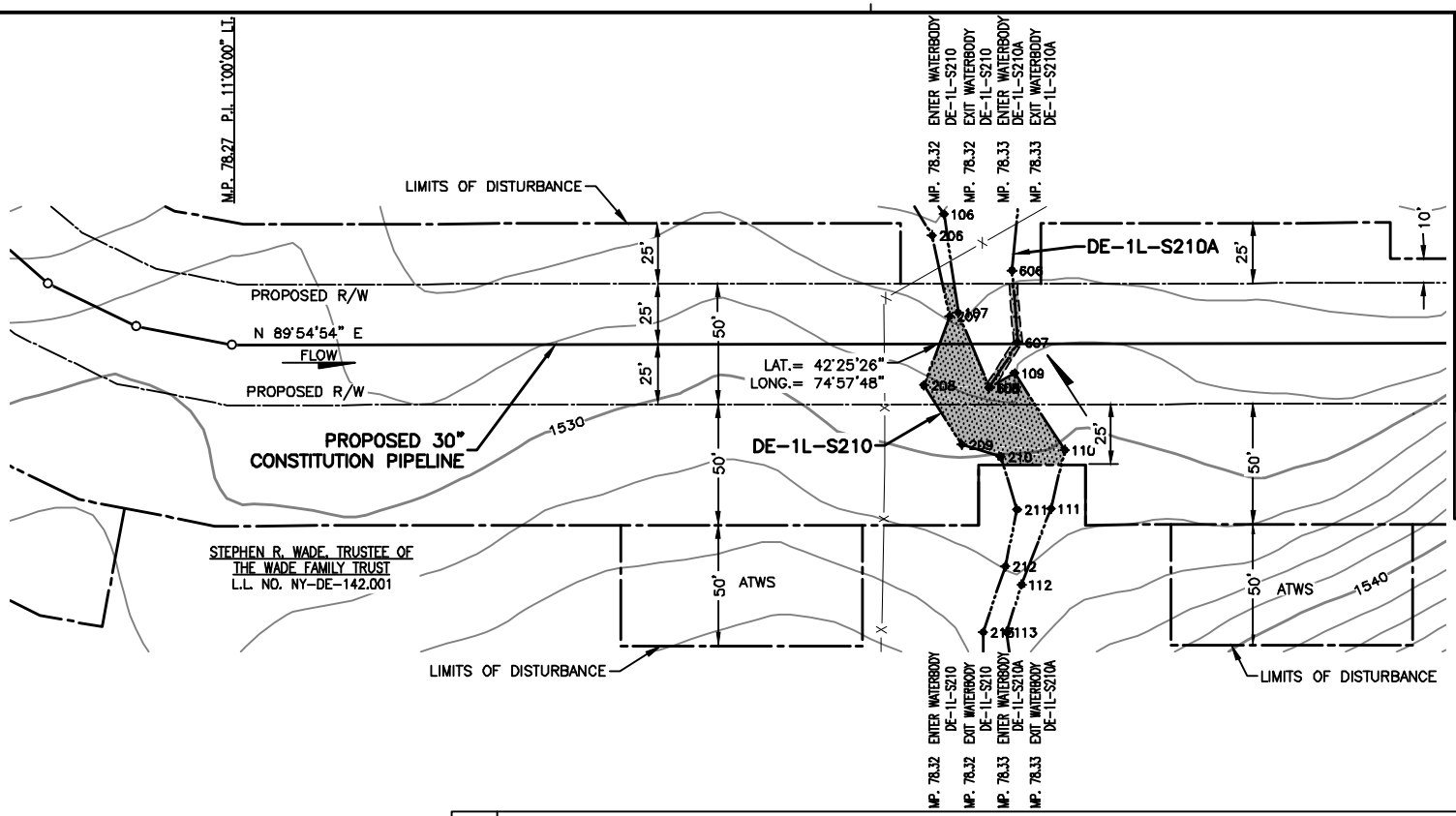
APPLICATION NO.: NAN-2012-00449-UBR

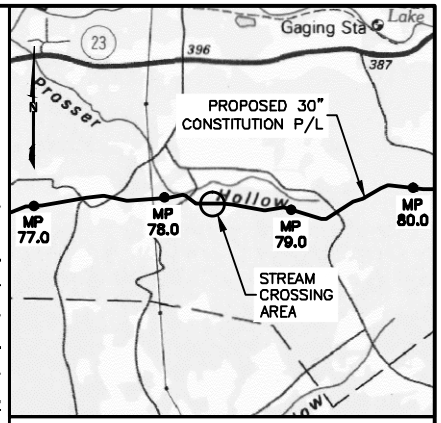
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1G-S209A AND DE-1G-S241 @ M.P. 78.20
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-20-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/DE-1G-S209A-1-2	SHEET 151 OF 214
WO 1110415			





VICINITY MAP

USGS QUAD MAP: PEPACTON RESERVOIR, NY.

5000' 0 5000'

SCALE IN FEET

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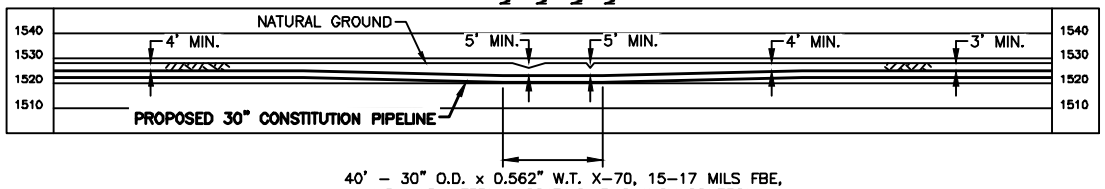

40' – 30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

SCALE: 1" = 80' HORIZONTAL
1" = 80' VERTICAL

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)	State Water Quality Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
DE-1L-S210	UNT to Charlotte Creek	Perennial	15	0.04	C	N	N/A	Dry
DE-1L-210A	UNT to Charlotte Creek	Intermittent	3	0.01	C	N	N/A	Dry

TROY I. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-80	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	10-01-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING DE-1L-S210 AND DE-1L- S210A @ M.P.78.32
TOWN OF DAVENPORT
DELAWARE COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 05-04-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/DE-1L-S210-1-3	SHEET 152 OF 214
WO 1110415			