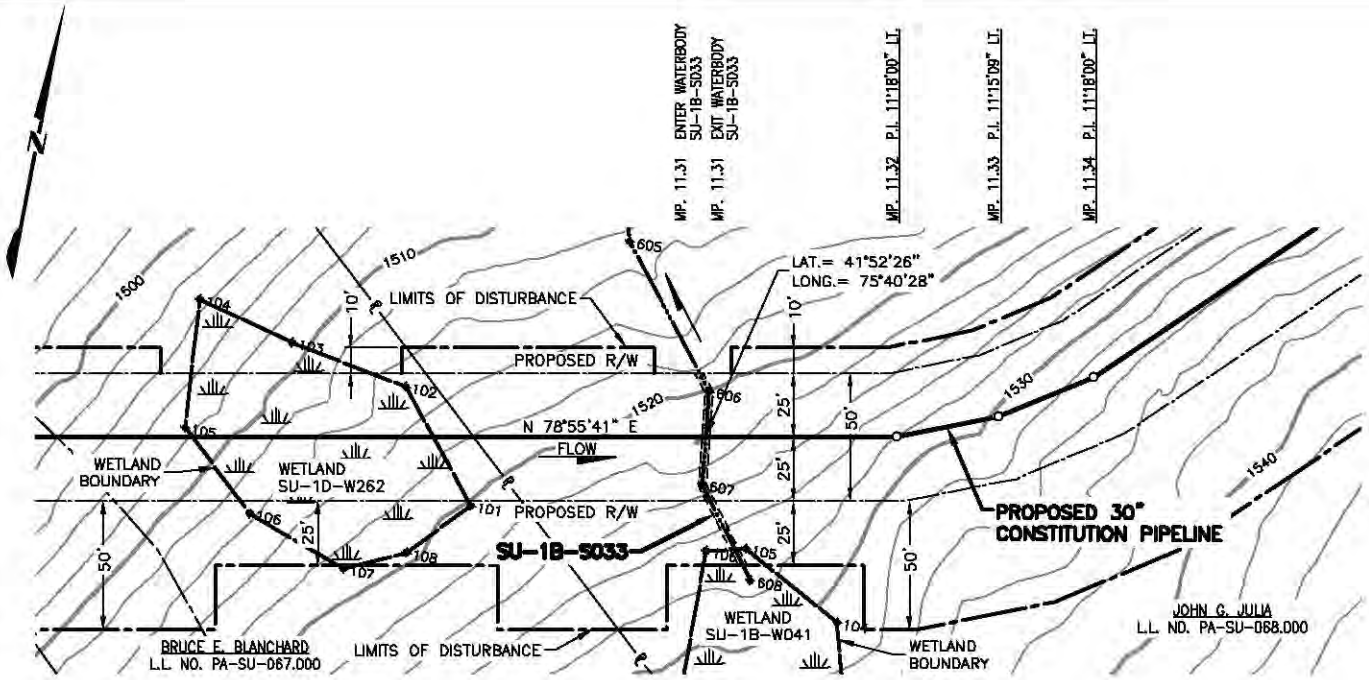
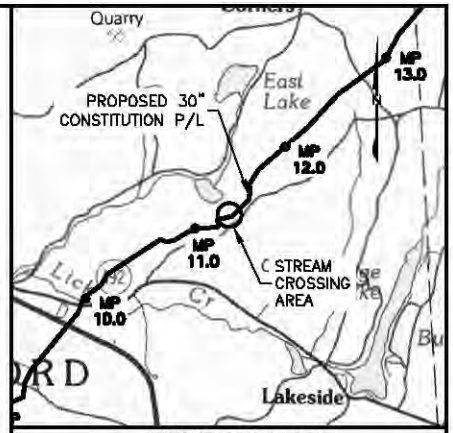


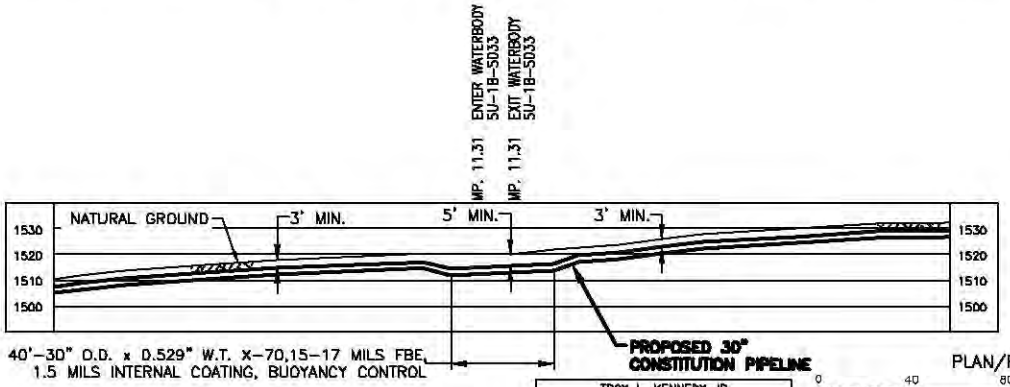


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1B-S033	UNT to East Lake Creek	Ephemeral	3	0.002	0.004	HQ-CWF	N/A	Dry

TROY L. KENNEDY JR

PA. PROFESSIONAL ENGINEER NO. 42807

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-11	ALIGNMENT SHEET

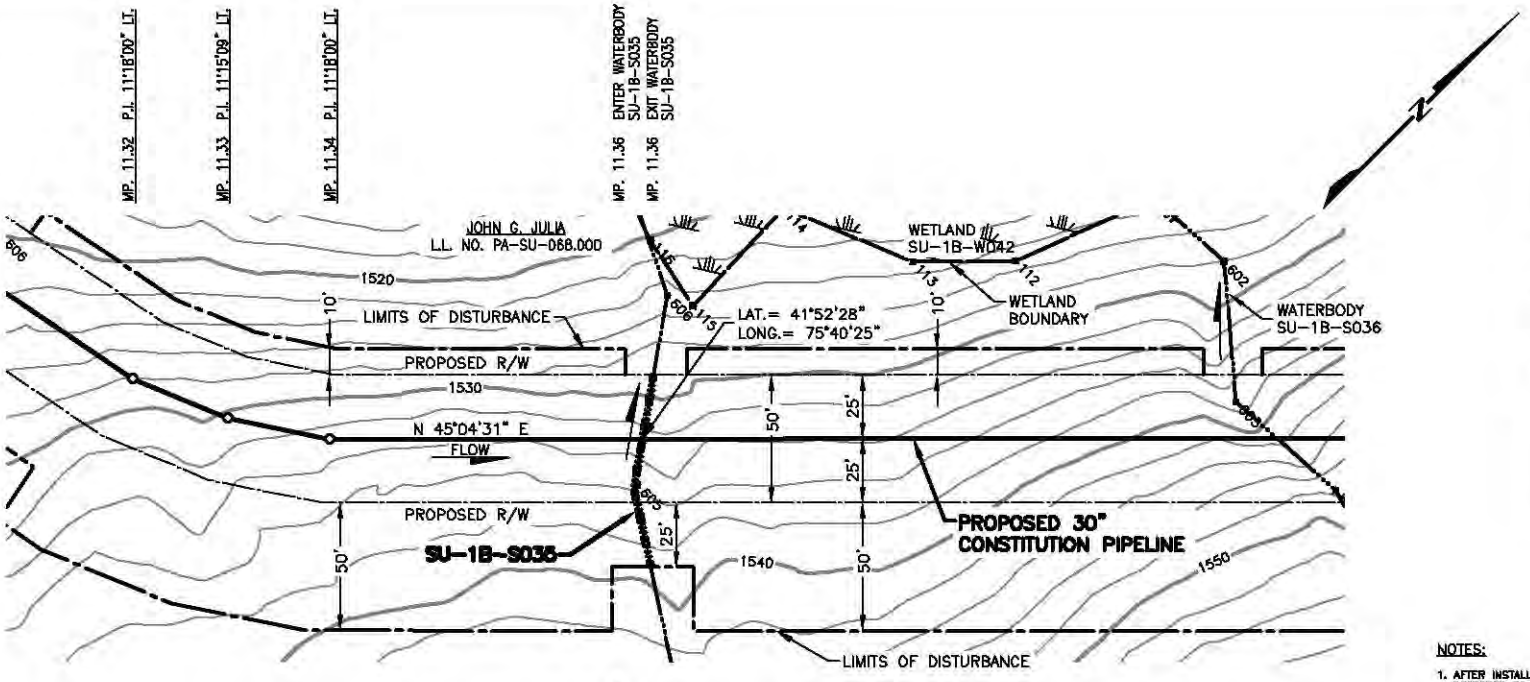
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-23-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
B	07-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-16-13	GIE	ISSUED FOR USE	1110415		
1	09-14-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-18-13	GIE	ISSUE FOR USE	1110415		

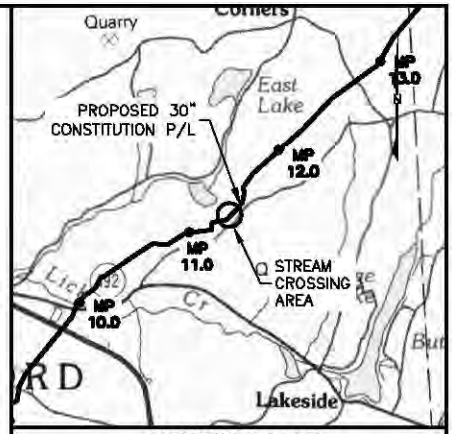
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1B-S033 @ M.P. 11.31
NEW MILFORD TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-28-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1B-S033-1-2	SHEET 23 OF 214
WO: 1110415			



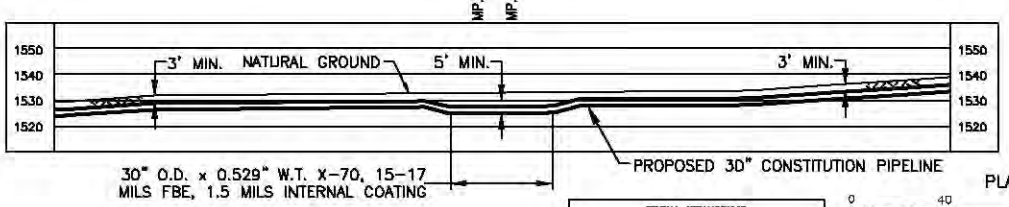


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1B-S035	UNT to East Lake Creek	Ephemeral	2	0.001	0.002	HQ-CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-12	ALIGNMENT SHEET

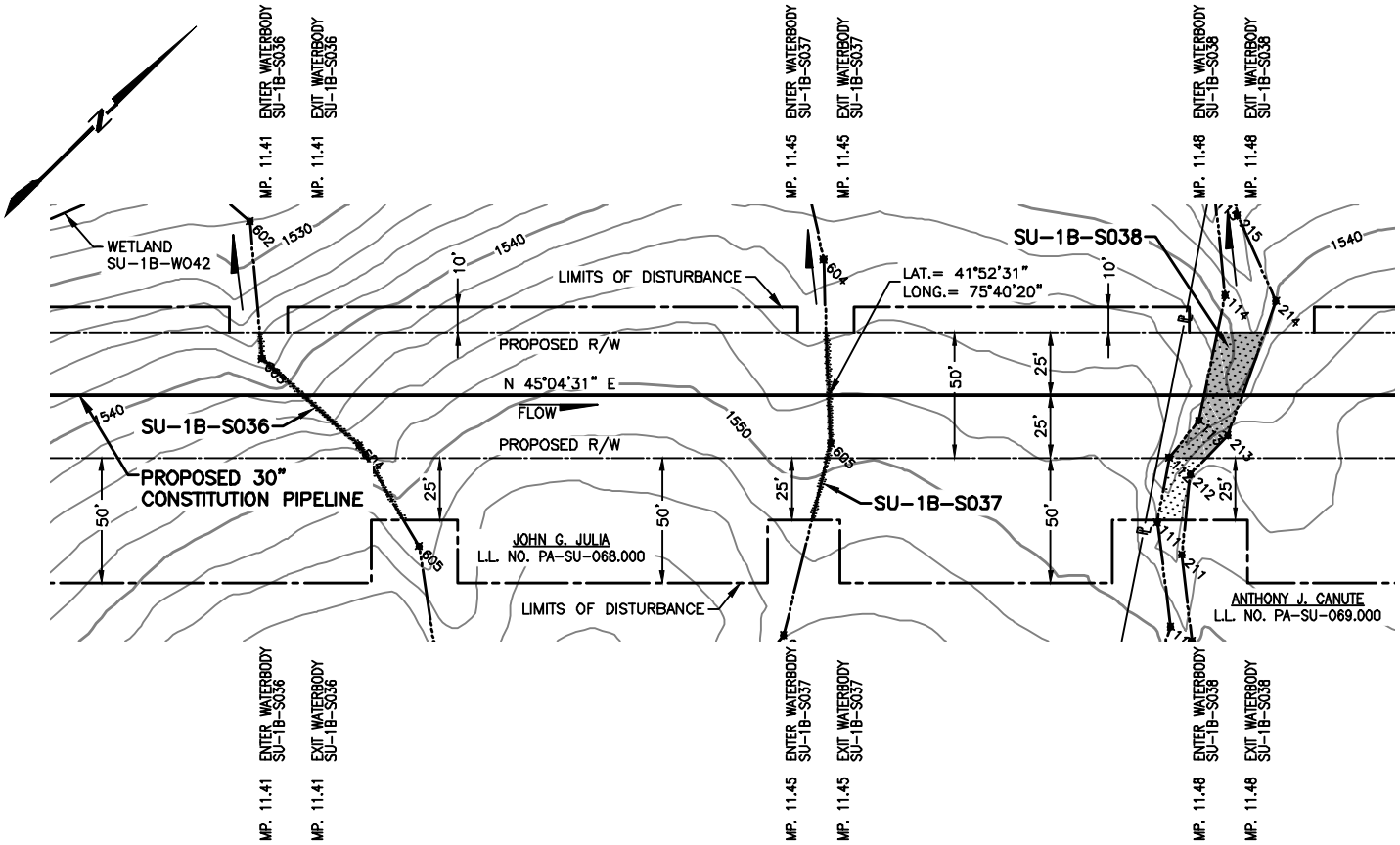
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	09-14-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-04-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

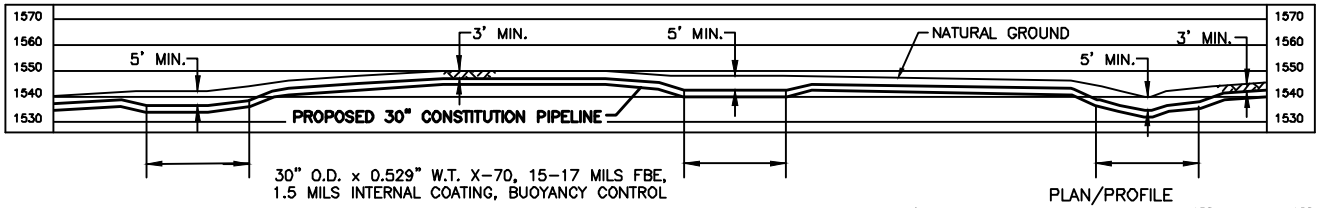
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1B-S035 @ M.P. 11.36
NEW MILFORD TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-29-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1B-S035-1-4	SHEET 24 OF 214
WO: 1110415			

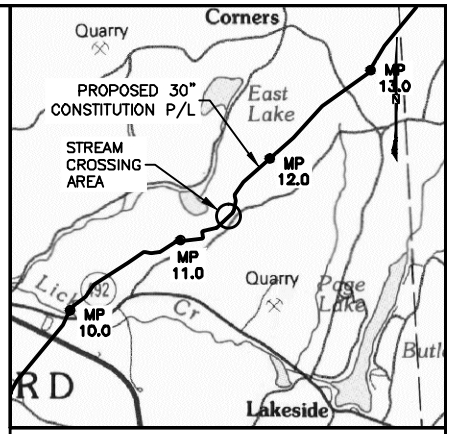




PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

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



VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1B-S036	UNT to East Lake Creek	Ephemeral	3	0.001	0.003	HQ-CWF	N/A	Dry
SU-1B-S037	UNT to East Lake Creek	Ephemeral	2	0.001	0.002	HQ-CWF	N/A	Dry
SU-1B-S038	UNT to East Lake Creek	Perennial	15	0.006	0.018	HQ-CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-11	ALIGNMENT SHEET
26-26-70/0001-12	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-06-13	GIE	ISSUED FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	09-24-13	GIE	ISSUE FOR USE	1110415		
3	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

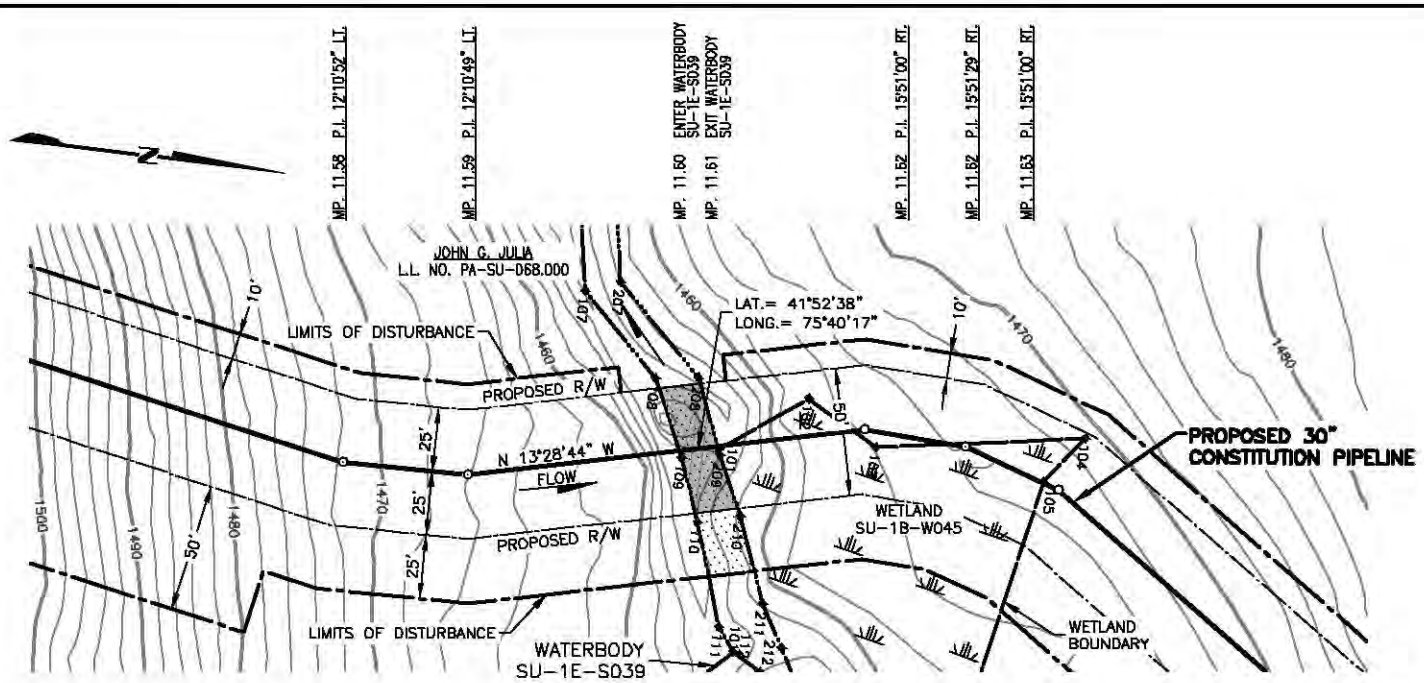
APPLICATION NO.: NAN-2012-00449-UBR

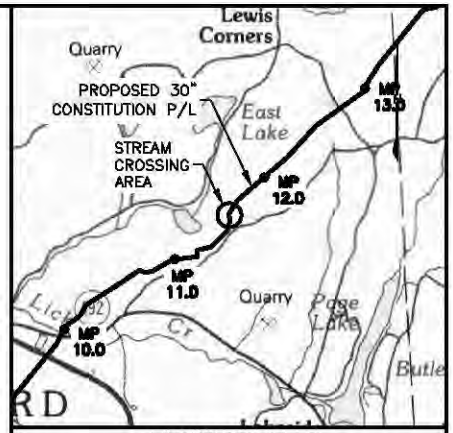
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS SU-1B-S036, SU-1B-S037
AND SU-1B-S038 @ M.P. 11.41
NEW MILFORD TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-29-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1B-S036-1-4	SHEET 25 OF 214
WO: 1110415			



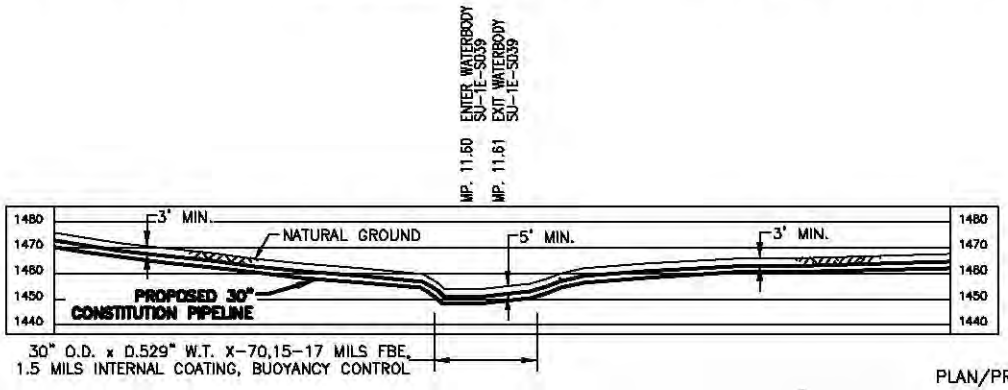


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1E-S039	UNT to East Lake Creek	Perennial	15	0.03	0.02	HQ-CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-12	ALIGNMENT SHEET

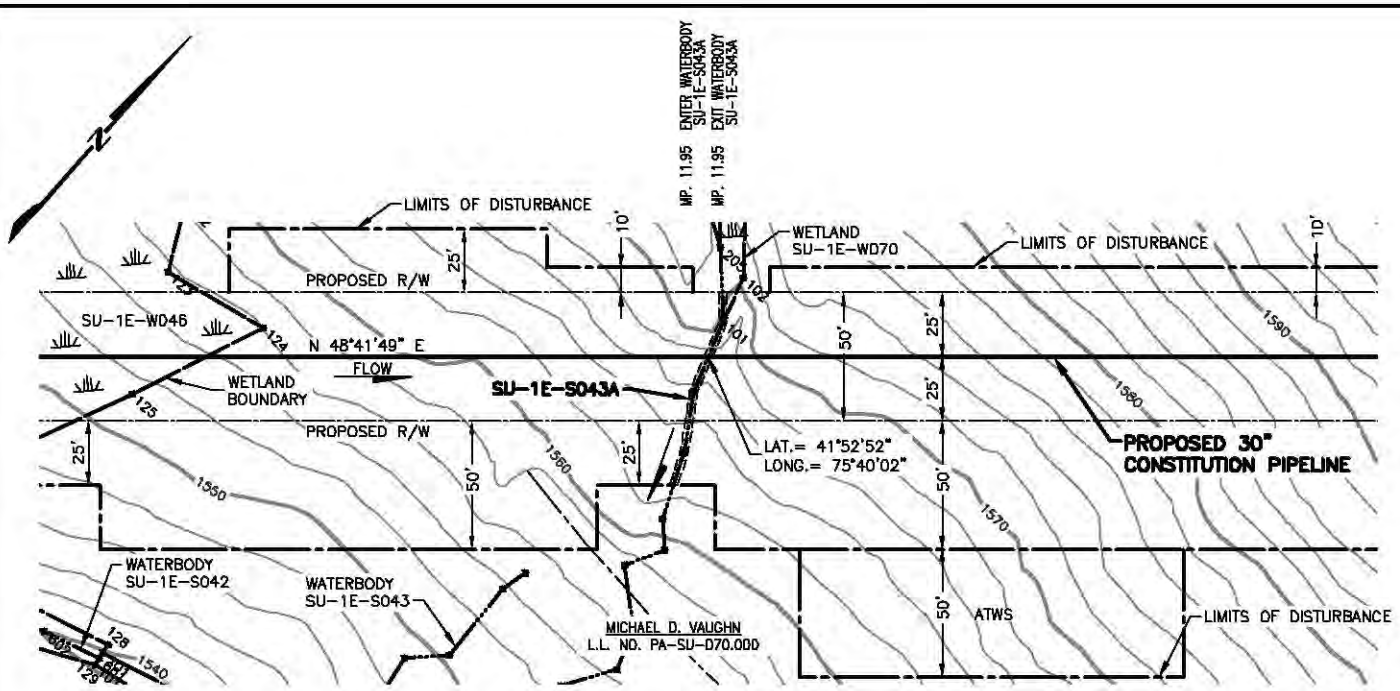
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	07-16-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-17-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

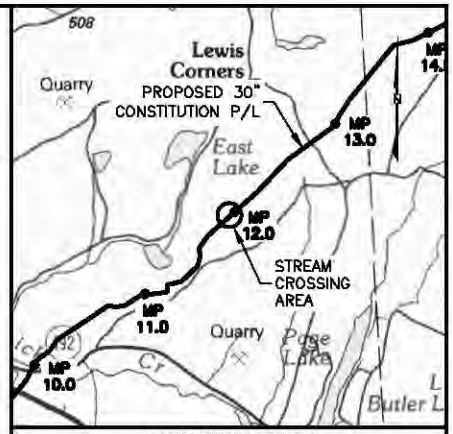
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1E-S039 @ M.P. 11.60
NEW MILFORD TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-30-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1E-S039-1-3	SHEET 26 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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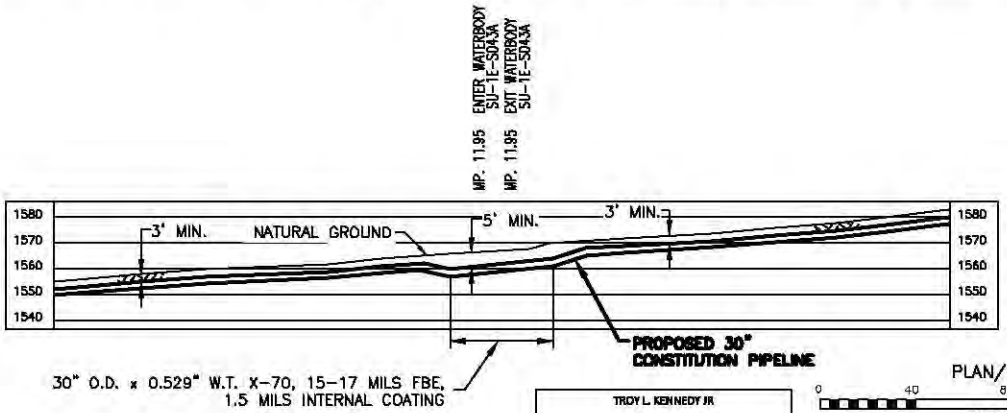


PLAN/PROFILE

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1E-S043A	UNT to East Lake Creek	Intermittent	2	0.002	0.004	HQ-CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-12	ALIGNMENT SHEET

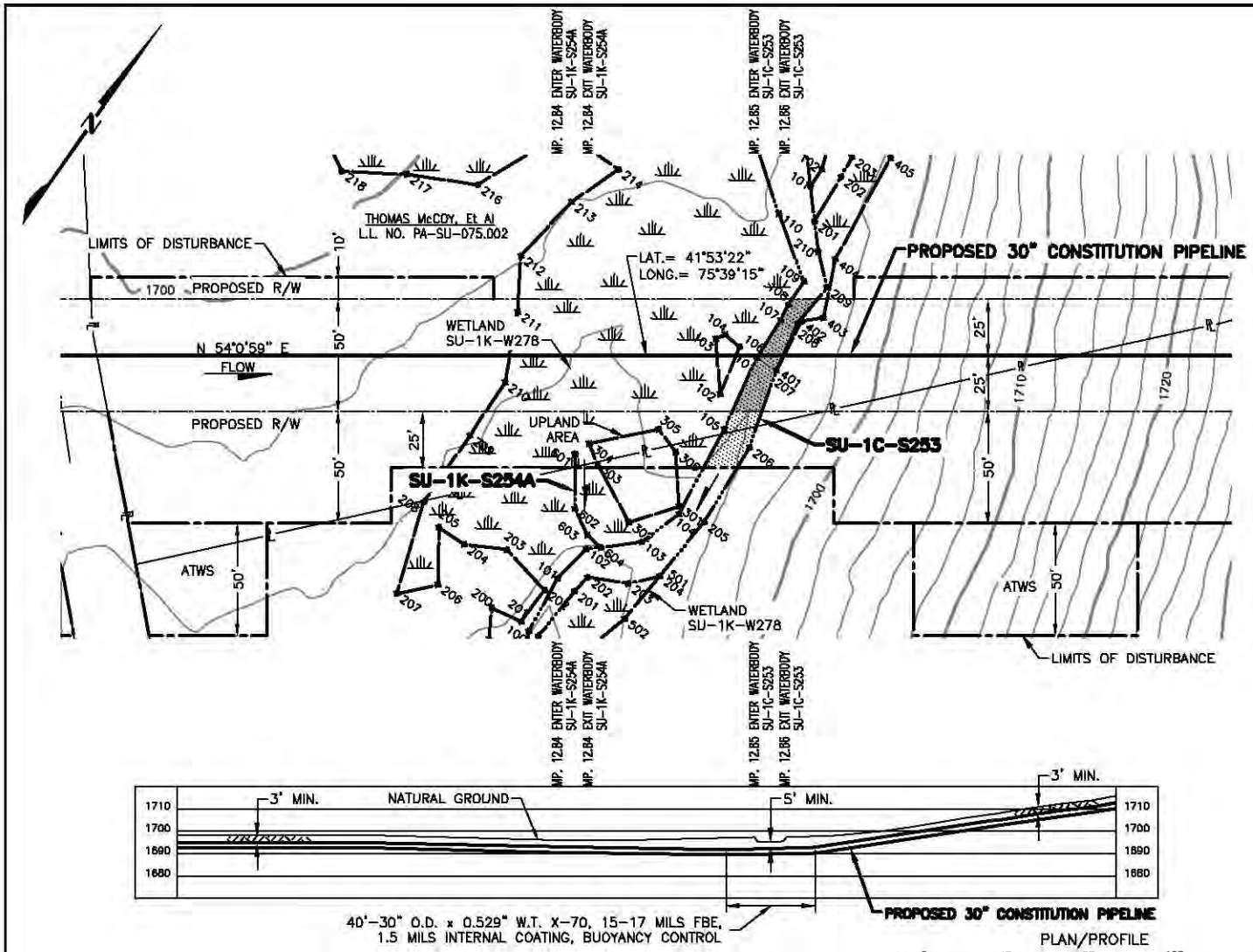
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	07-02-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	07-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-17-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GIE	ISSUE FOR USE	1110415		

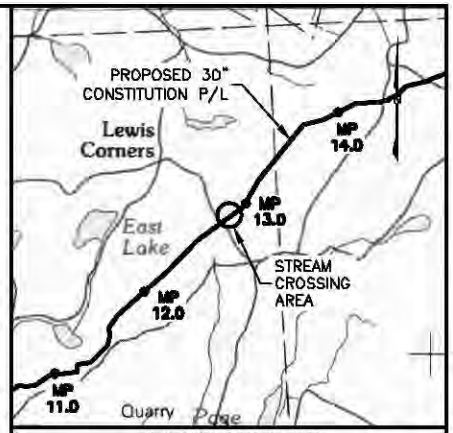
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1E-S043A @ M.P. 11.95
NEW MILFORD TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-31-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1E-S043A-1-2	SHEET 27 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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.

Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)		State Water Quality Standard	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1C-S253	UNT to Salt Lick Creek	Perennial	11	0.02	0.02	HQ-CWF	N/A	Dry
SU-1K-S254A	UNT to Salt Lick Creek	Intermittent	0	0.01		HQ-CWF	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-13	ALIGNMENT SHEET

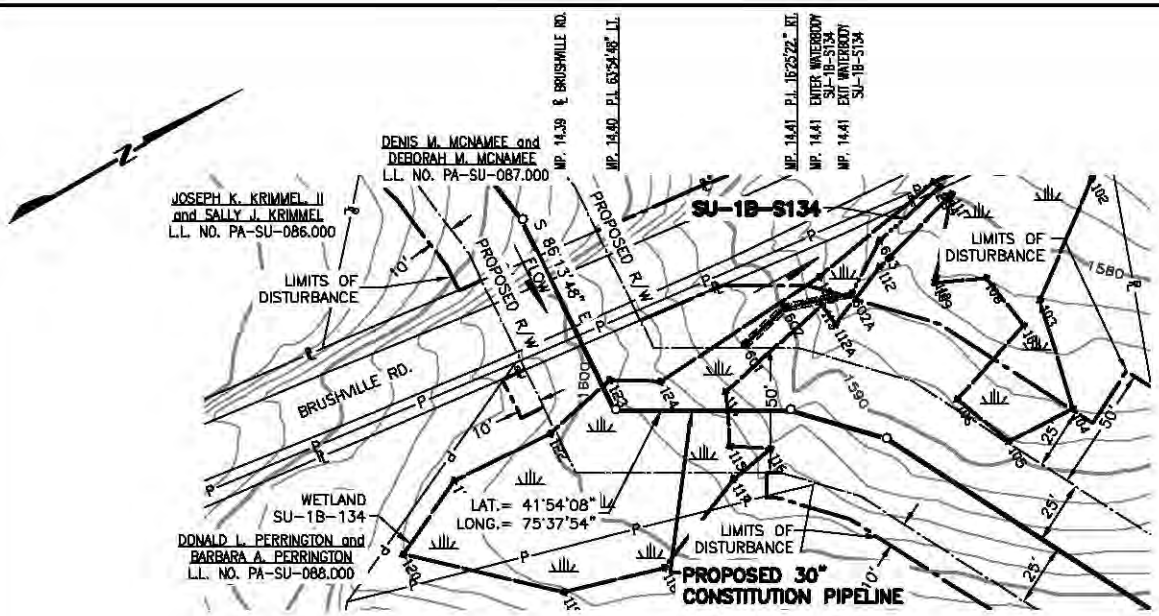
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
2	09-17-13	GIE	REVISE - ISSUE FOR USE	1110415		
3	09-24-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-04-13	GIE	ISSUE FOR USE	1110415		
5	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
6	10-28-13	GIE	ISSUE FOR USE	1110415		

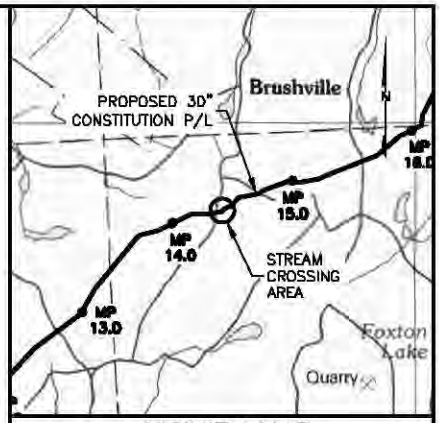
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS SU-1C-S253 & SU-1K-S254A @ M.P. 12.85
NEW MILFORD TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 07-06-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1C-S253-1-6	SHEET 28 OF 214
WO: 1110415			



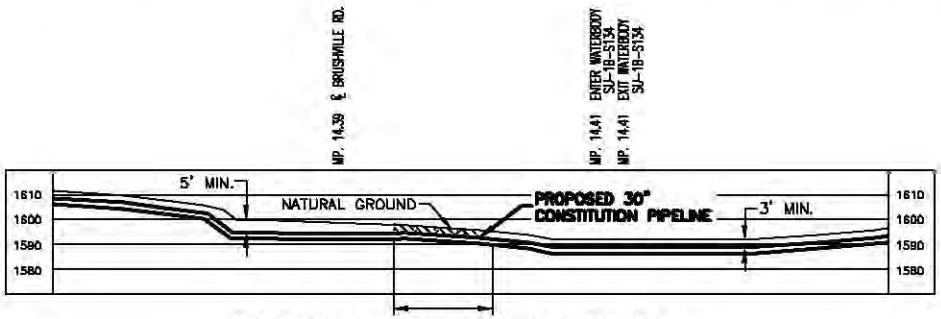


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET



40'– 30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL
(CONCRETE COATING TO BEGIN AFTER P.I.)

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1B-S134	UNT to Lewis Creek	Ephemeral	0	0.01	0	CWF	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-15	ALIGNMENT SHEET

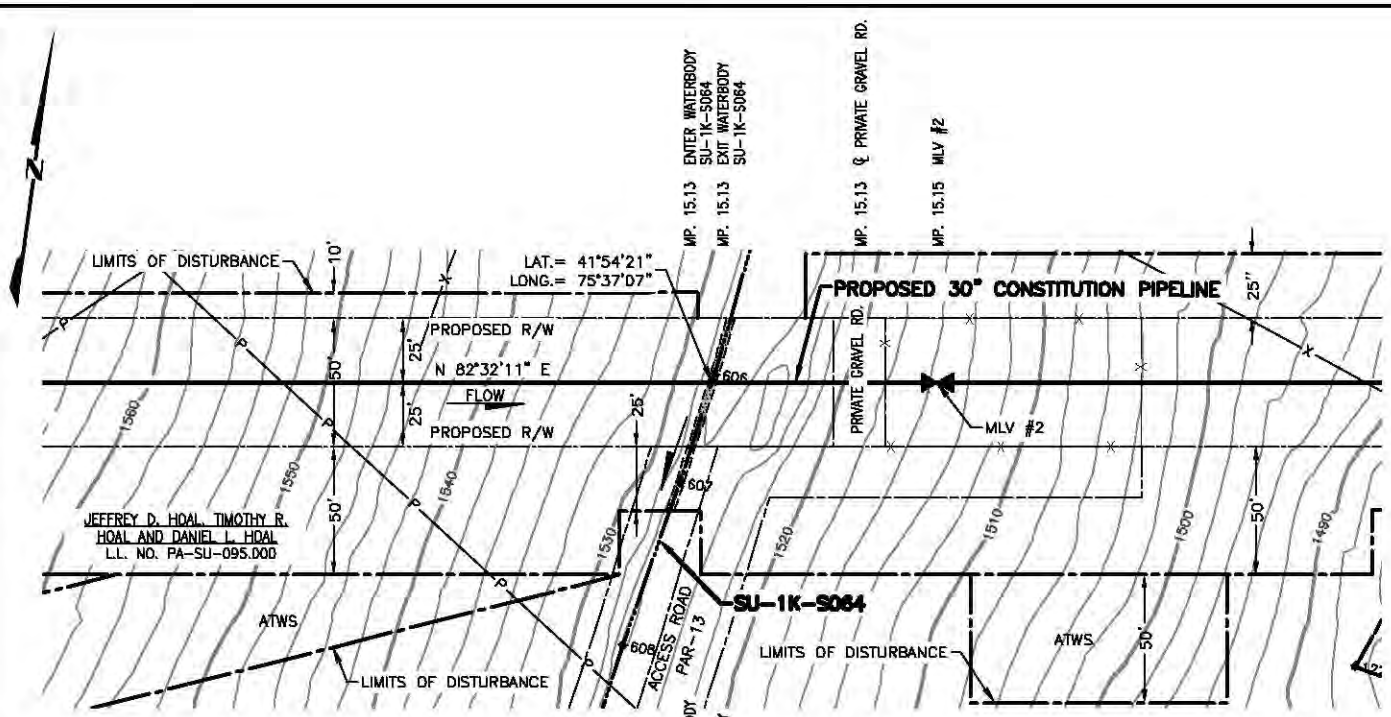
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-01-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-01-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-30-13	GIE	ISSUE FOR USE	1110415		

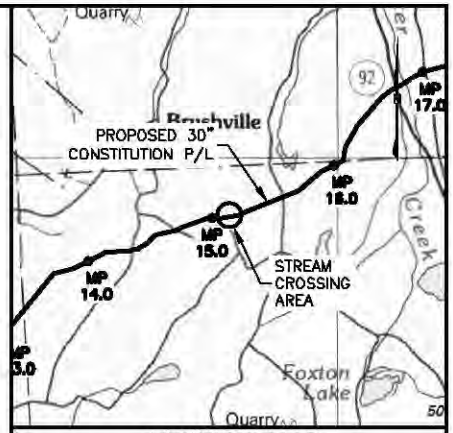
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1B-S134 @ M.P. 14.40
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 08-01-2013	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1B-S134-1-3	SHEET 29 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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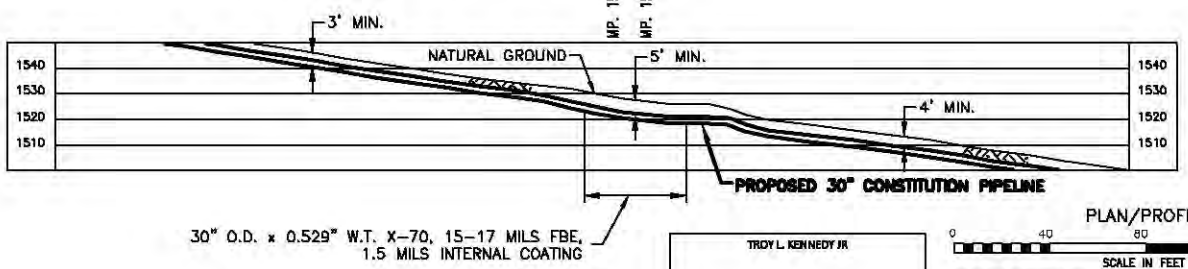


PLAN/PROFILE

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1K-S064	Road Ditch	Intermittent	2	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-15	ALIGNMENT SHEET

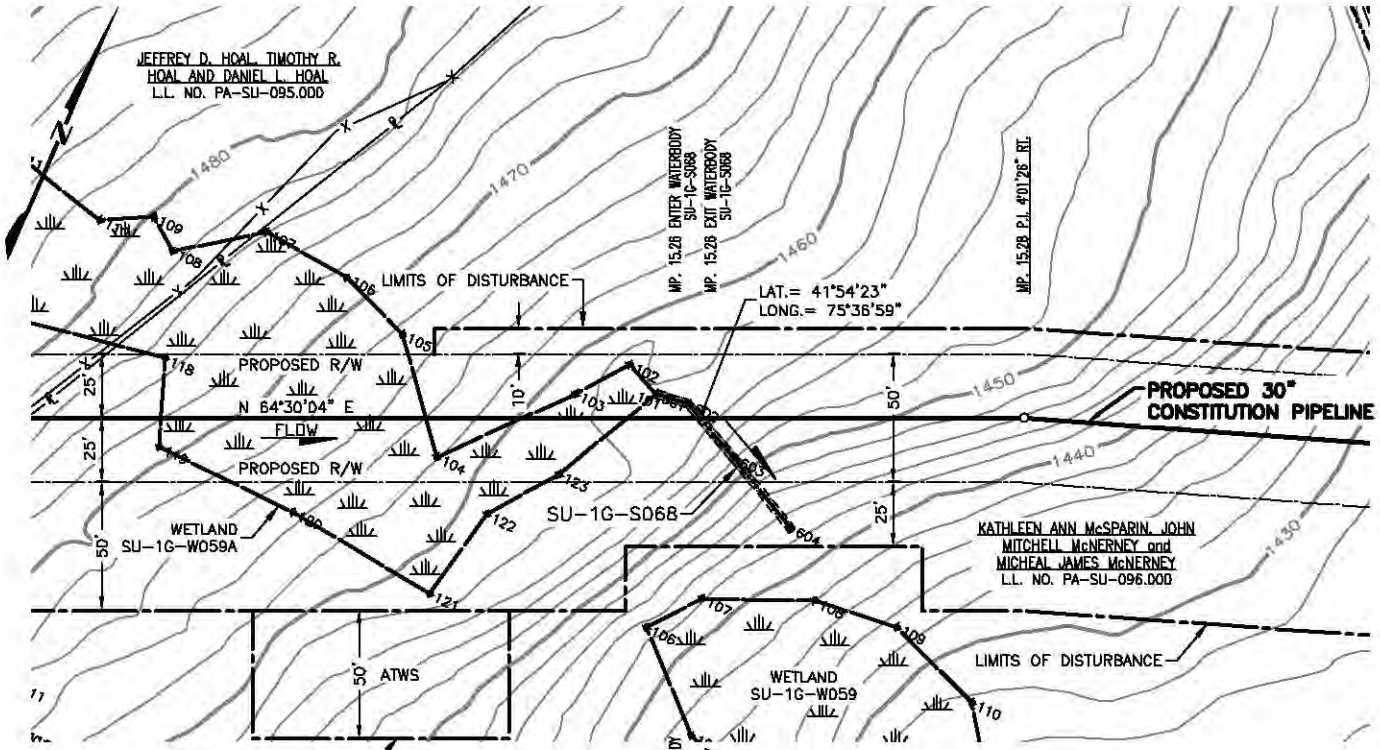
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-14-13	GIE	ISSUED FOR USE	1110415		
1	08-22-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-30-13	GIE	ISSSUE FOR USE	1110415		

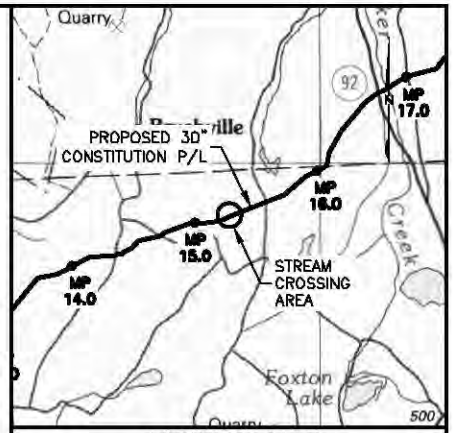
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1K-S064@ M.P. 15.13
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 04-16-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1K-S064-1-4	SHEET 30 OF 214
WO: 1110415			



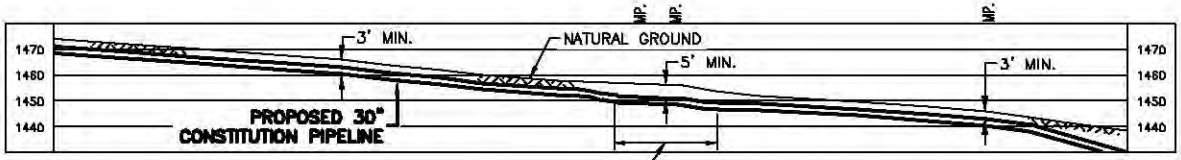


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1G-S068	UNT TO Drinkers Creek	Ephemeral	5	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

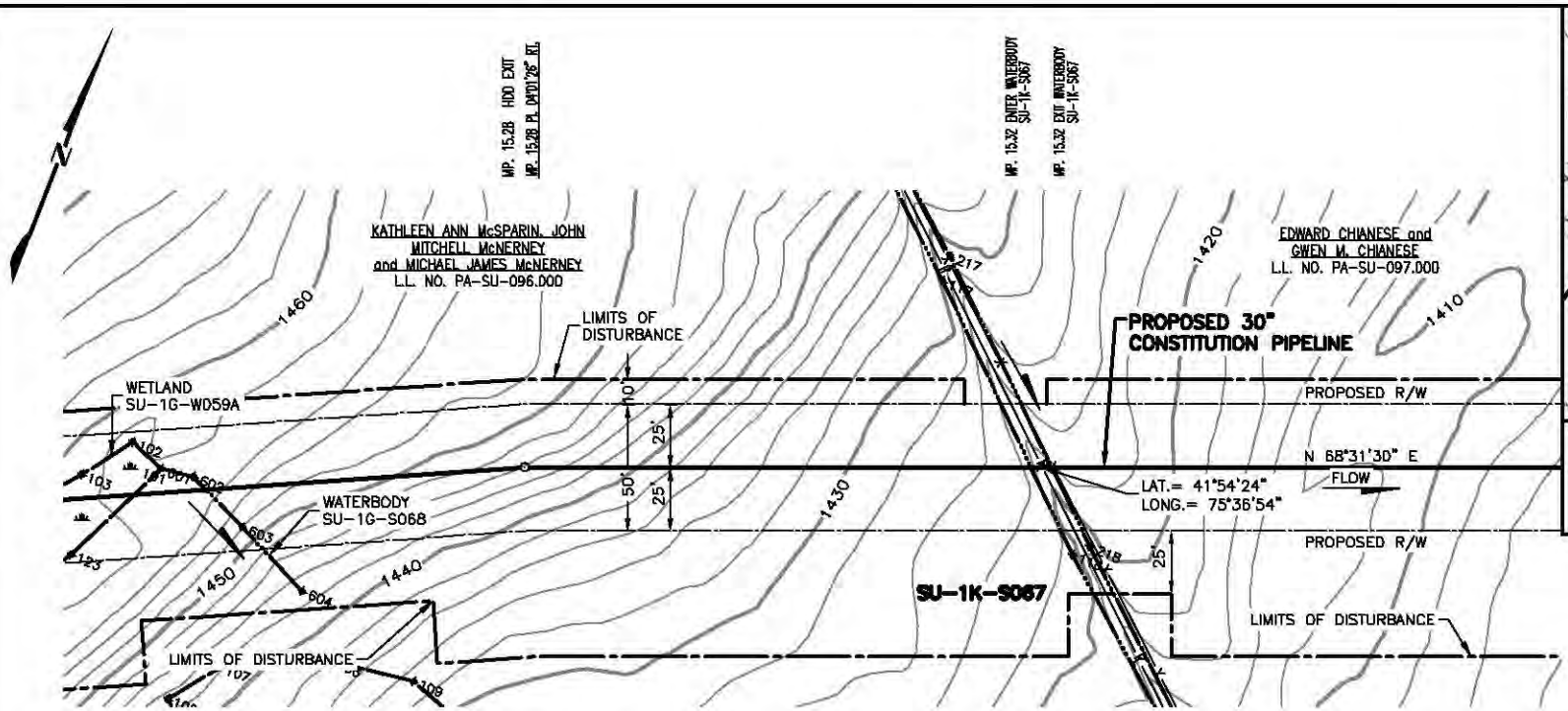
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	07-17-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	07-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-24-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GIE	ISSUE FOR USE	1110415		

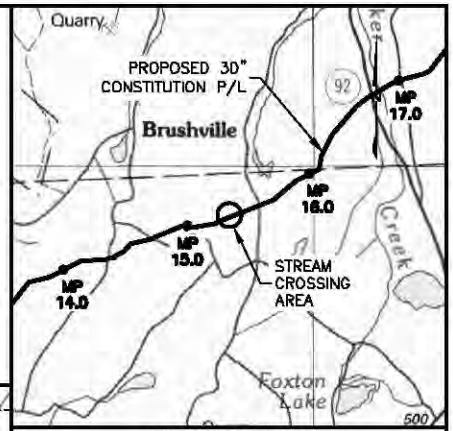
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1G-S068 @ M.P. 15.26
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 04-22-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1G-S068-1-2	SHEET 31 OF 214
WO: 1110415			



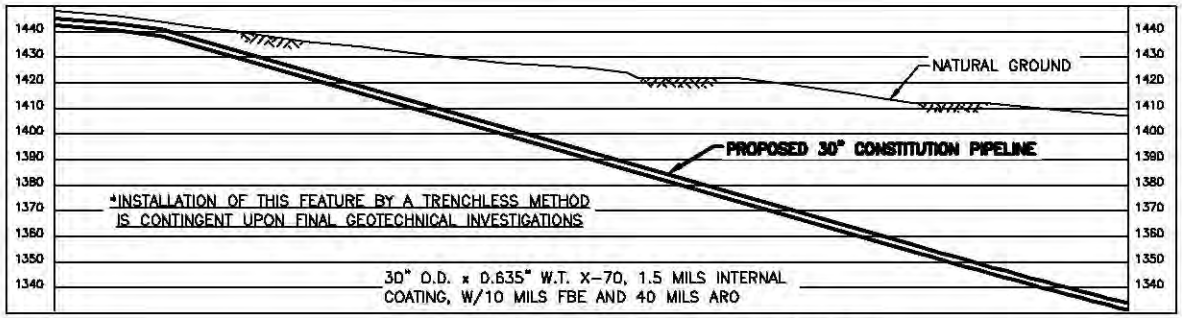


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1K-S067	UNT to Drinker Creek	Perennial	8		0	CWF	N/A	HDD

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

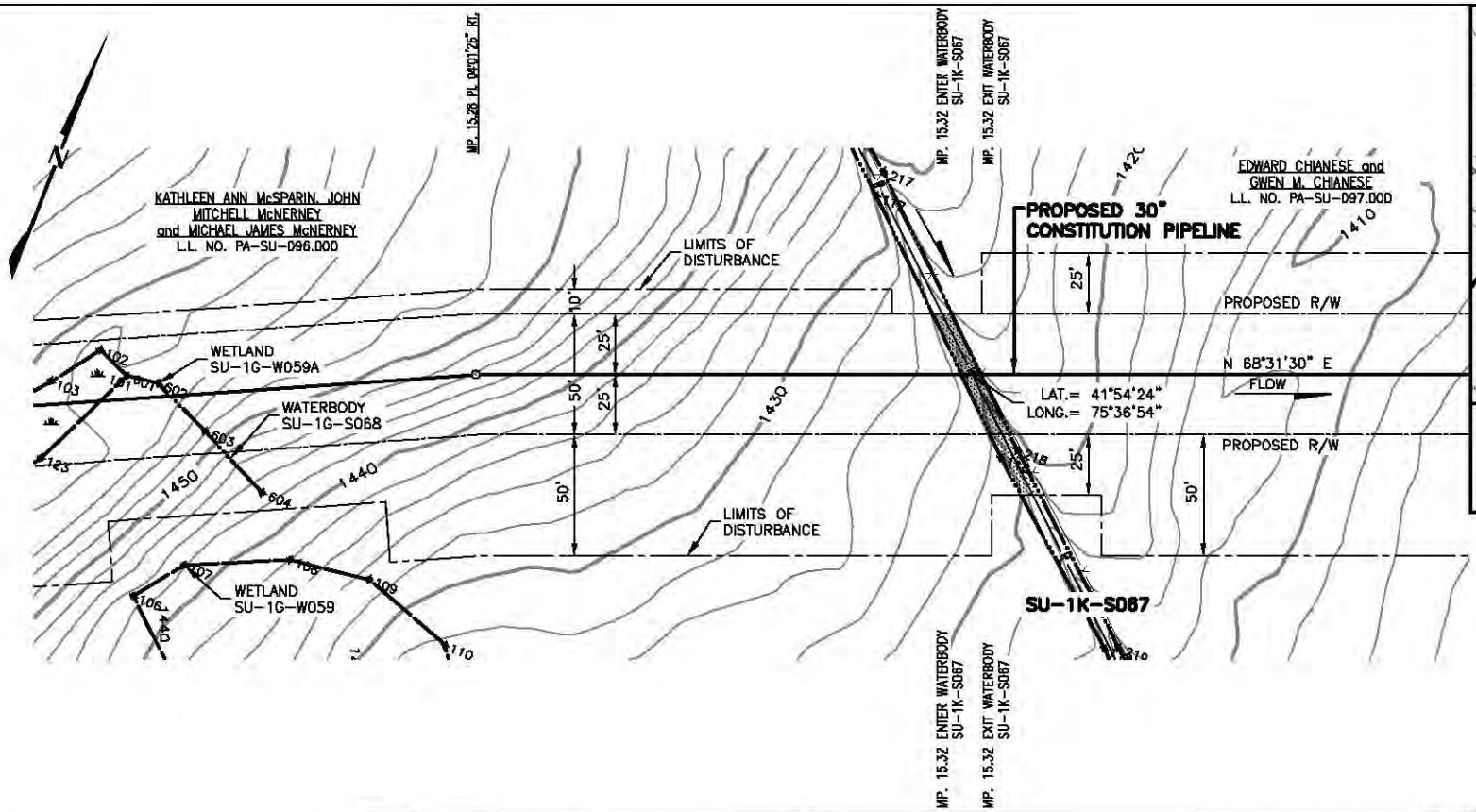
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
B	08-07-13	GIE	ISSUED FOR USE	1110415		
1	08-09-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-21-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

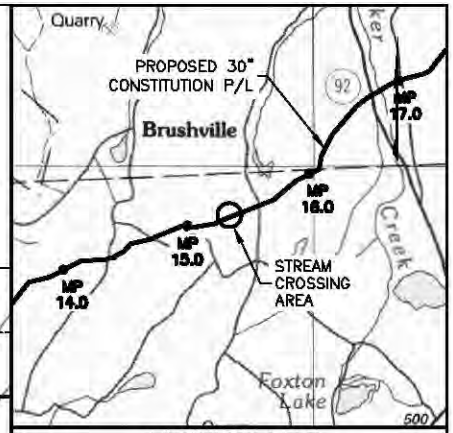
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1K-S067 @ M.P. 15.32
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 04-24-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1K-S067-1-3	SHEET 32 OF 214
WO: 1110415			



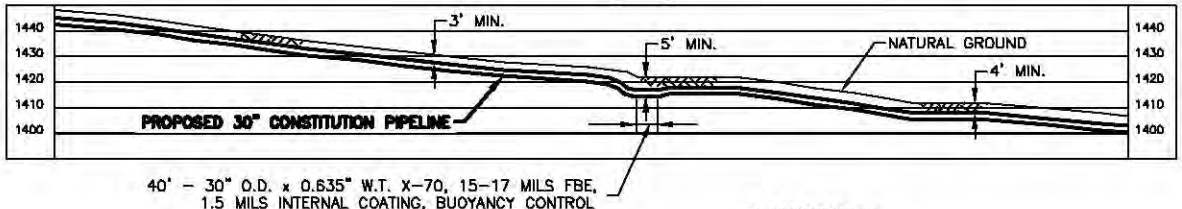


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)		State Water Quality Standard	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1K-S067	UNT to Drinker Creek	Perennial	8	.01	.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

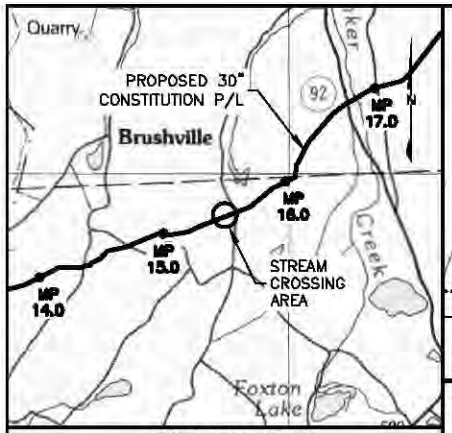
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1K-S067 @ M.P. 15.32
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 04-24-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1K-S067-OC-1-0	SHEET 32 OF 214
WO: 1110415			

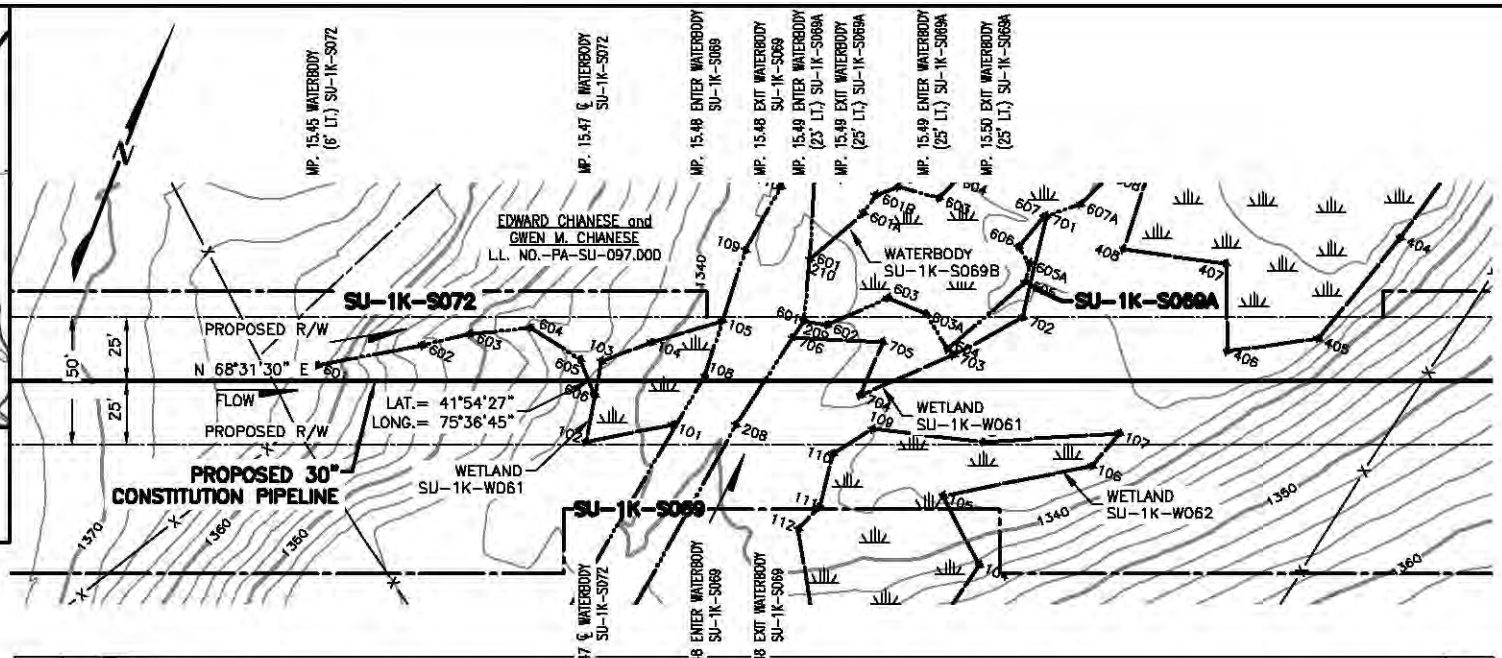


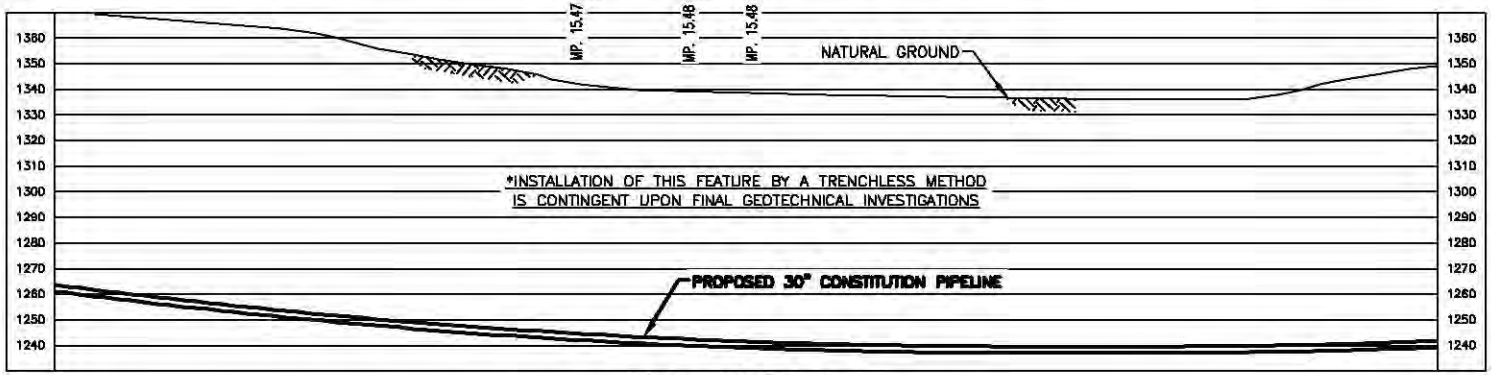
VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

5000' 0 5000'

SCALE IN FEET





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

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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

NOTES:

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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) Temporary ROW	50' Permanent ROW	State Water Quality Classification	State Fishery Classification	Crossing Method
SU-1K-S072	UNT to Drinker creek	Intermittent	2	0	0	CWF	N/A	HDD
SU-1K-S069	UNT to Drinker creek	Perennial	25	0	0	CWF	N/A	HDD
SU-1K-S069A	UNT to Drinker creek	Perennial	0	0	0	CWF	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

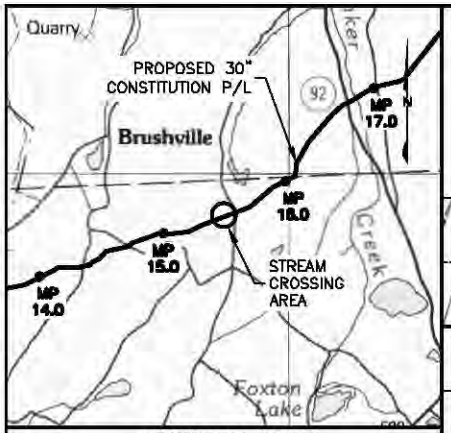
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-07-13	GIE	ISSUED FOR USE	1110415		
1	08-09-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	09-16-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-07-13	GIE	REVISED - ISSUED FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

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 CROSSINGS SU-1K-S072, SU-1K-S069
AND SU-1K-S069A @ M.P. 15.47
JACKSON TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-02-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1K-S072-1-4	SHEET 33 OF 214
WO: 1110415			

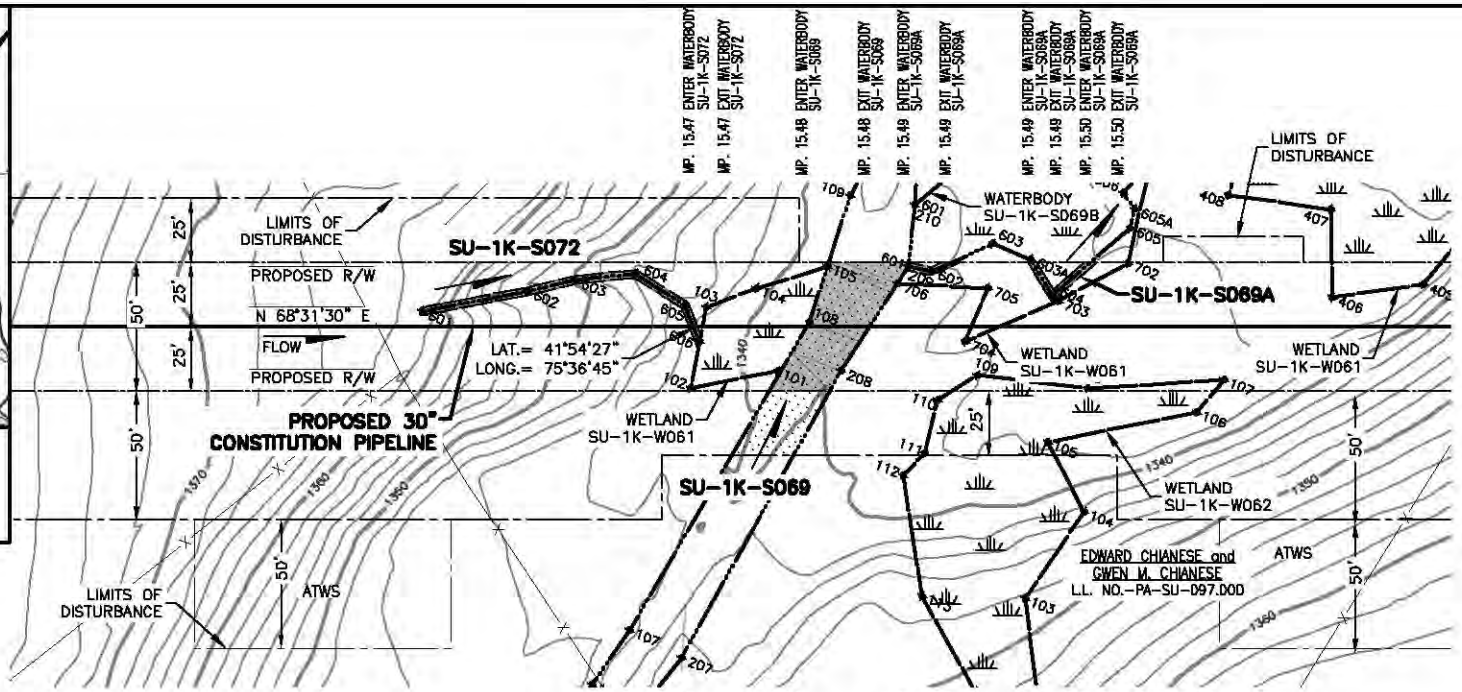


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

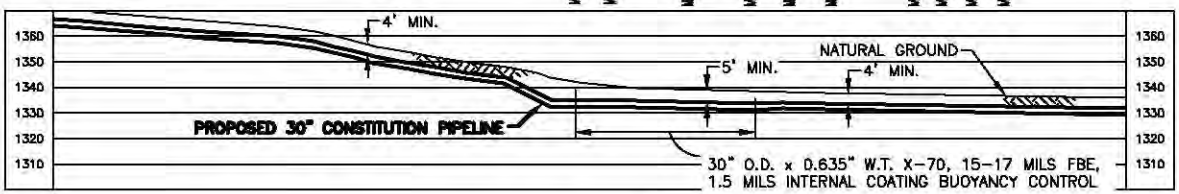
5000' 0 5000'

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) Temporary ROW	Stream Disturbance (acres) 50' Permanent ROW	State Water Quality Classification	State Fishery Classification	Crossing Method
SU-1K-S072	UNT to Drinker creek	Intermittent	2	0	0.01	CWF	N/A	Dry
SU-1K-S069	UNT to Drinker creek	Perennial	25	0	0.03	CWF	N/A	Dry
SU-1K-S069A	UNT to Drinker creek	Perennial	0	0	0.01	CWF	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

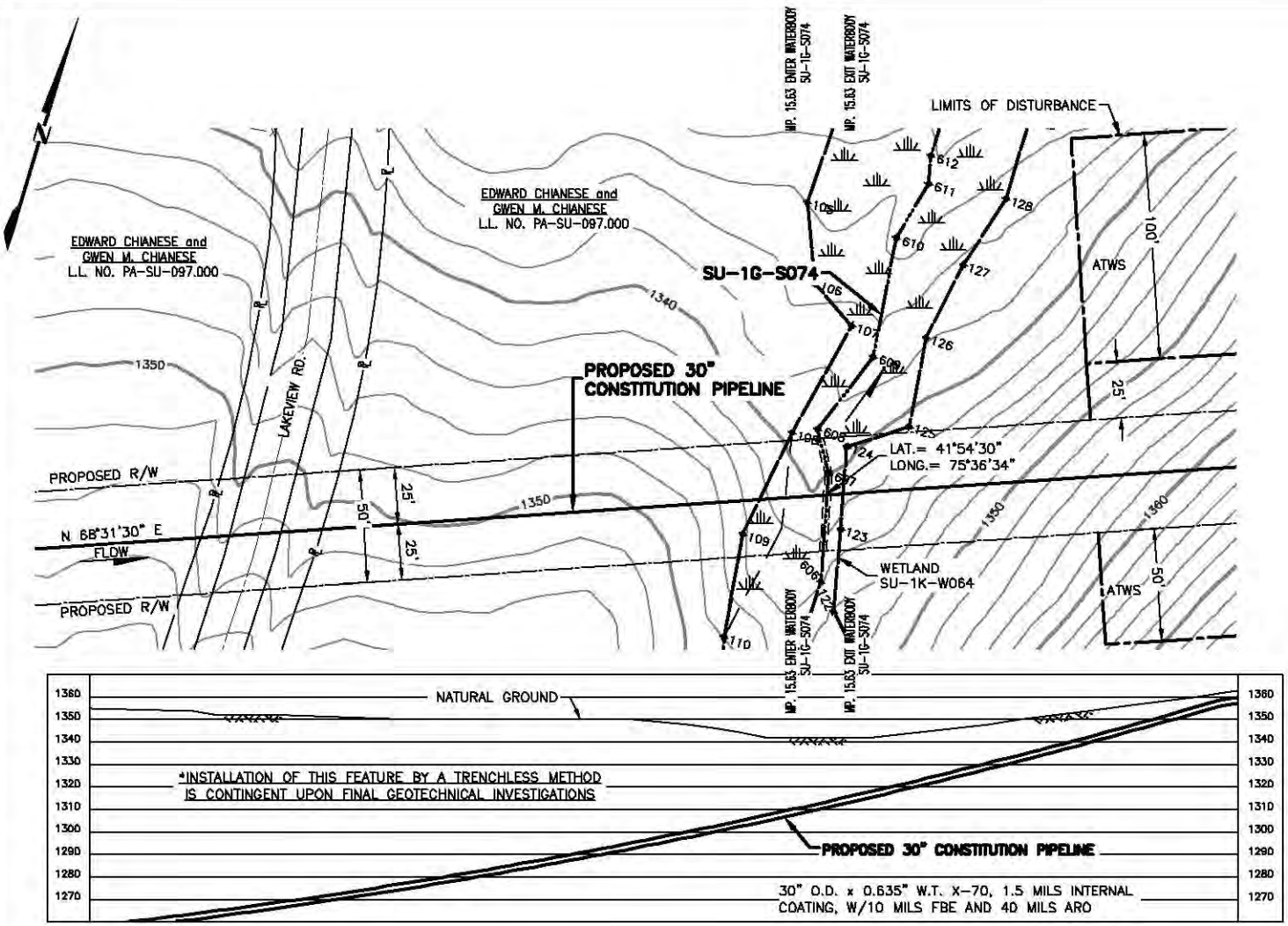
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-31-13	GIE	ISSUE FOR USE	1110415		

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 CROSSINGS SU-1K-SD72, SU-1K-SD69
AND SU-1K-SD69A @ M.P. 15.47
JACKSON TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-02-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1K-S072-OC-1-0	SHEET 33 OF 214
WO: 1110415			

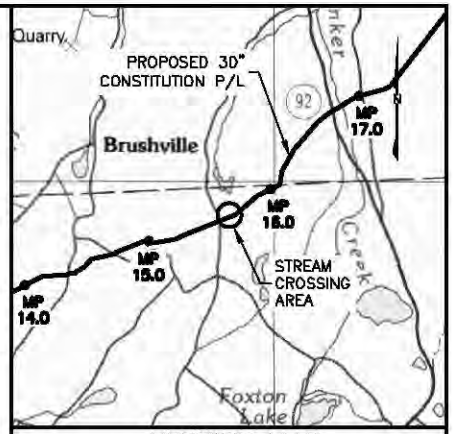


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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



VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	10' HDD Corridor			
SU-1G-S074	UNT to Drinker Creek	Perennial	3	0	0	CWF	N/A	HDD

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

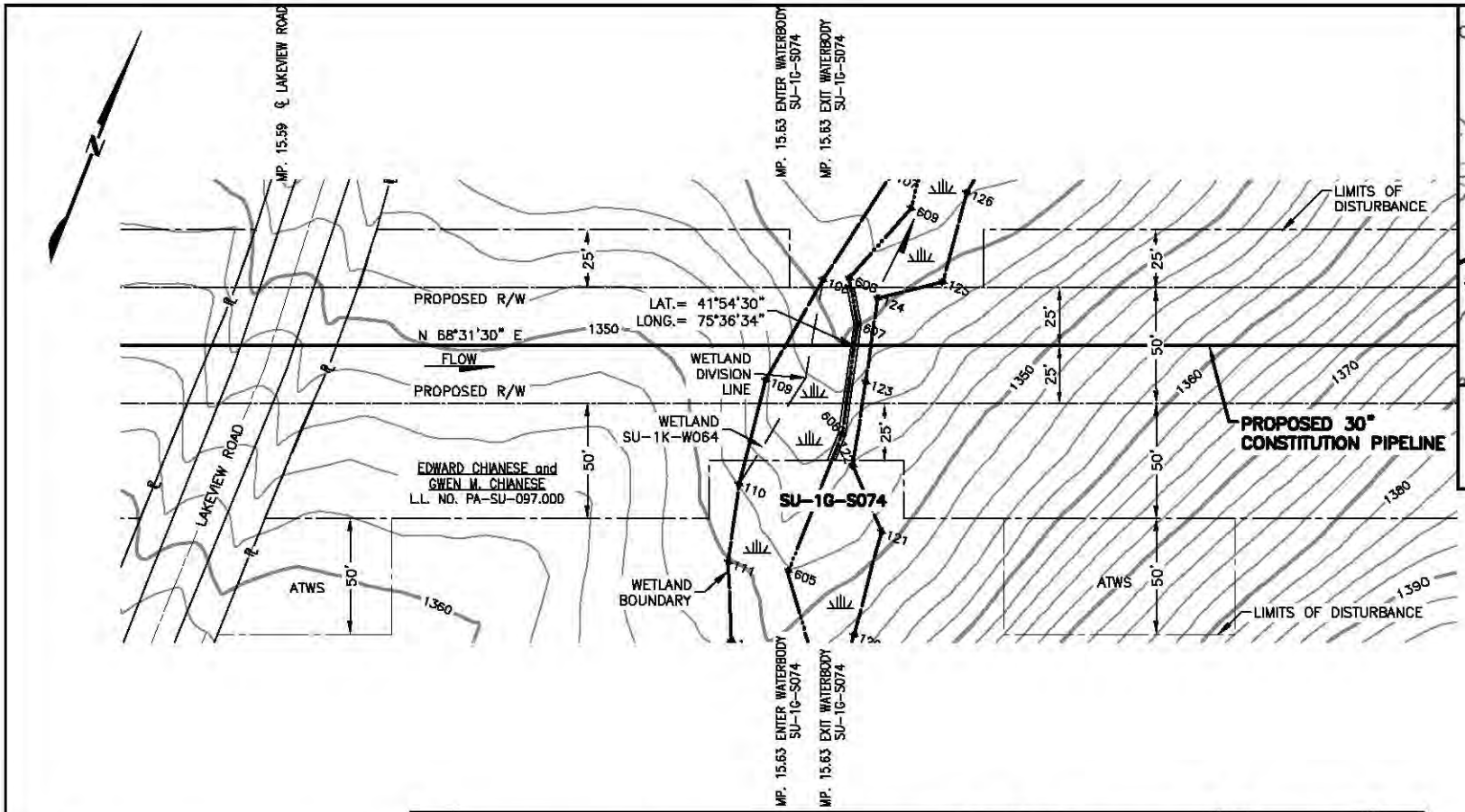
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-07-13	GIE	ISSUE FOR USE	1110415		
1	08-09-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-12-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

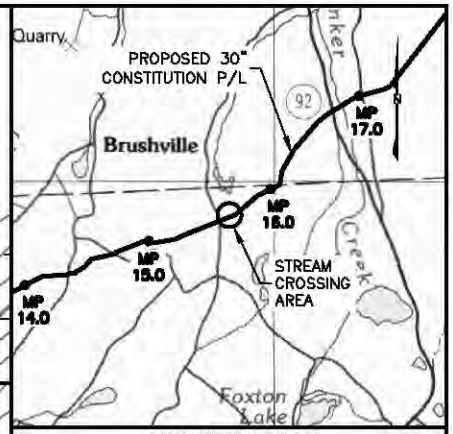
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1G-S074 @ M.P. 15.63
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-06-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1G-S074-1-3	SHEET 34 OF 214
WO: 1110415			



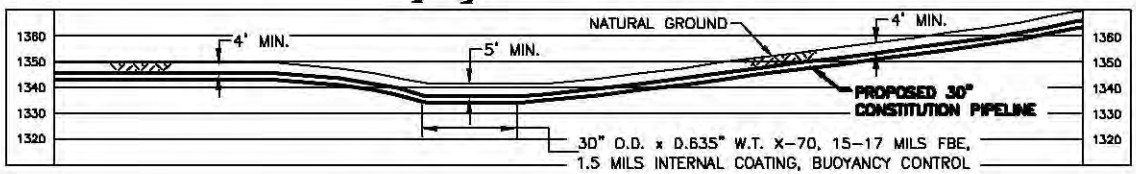


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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.
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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1G-S074	UNT to Drinker Creek	Perennial	3	.01	.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

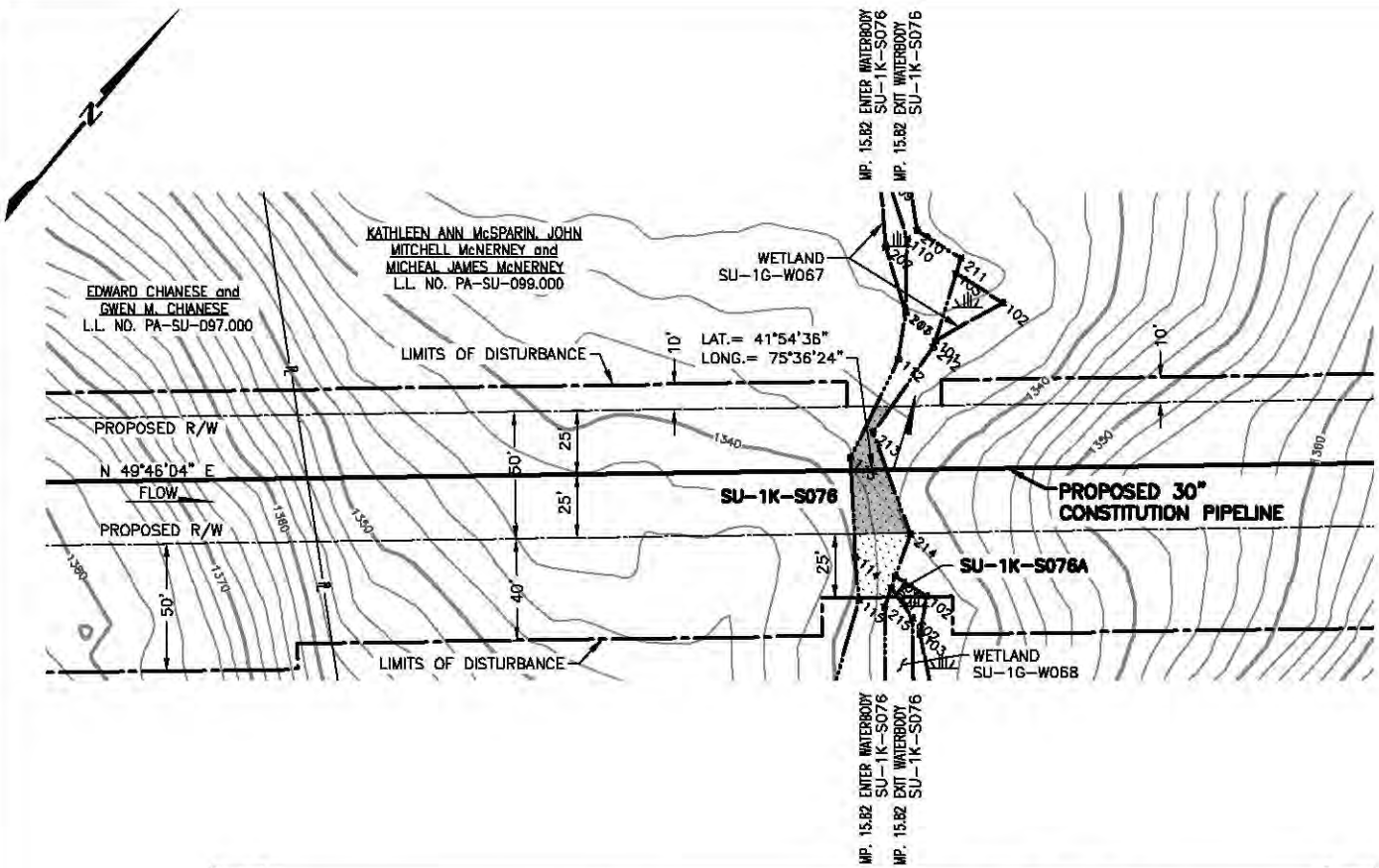
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

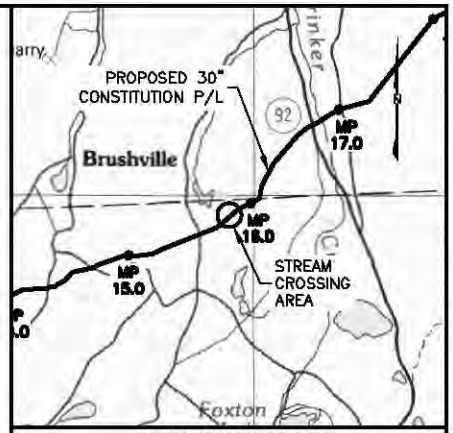
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1G-S074 @ M.P. 15.63
JACKSON TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-06-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1G-S074-DC-1-0	SHEET 34 OF 214
WO: 1110415			



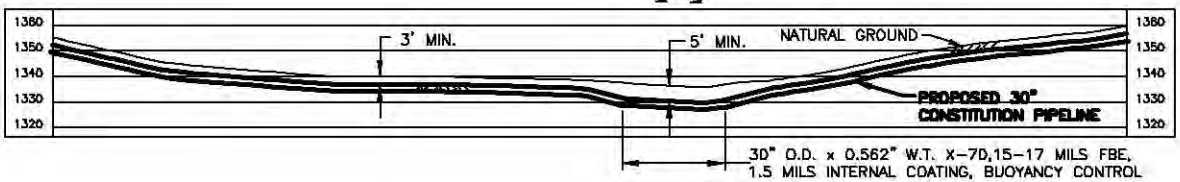


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1K-S076	UNT to Drinker Creek	Perennial	14	0.01	0.02	CWF	N/A	Dry
SU-1K-S076A	UNT to Drinker Creek	Perennial	0	0.01	0	CWF	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-16	ALIGNMENT SHEET

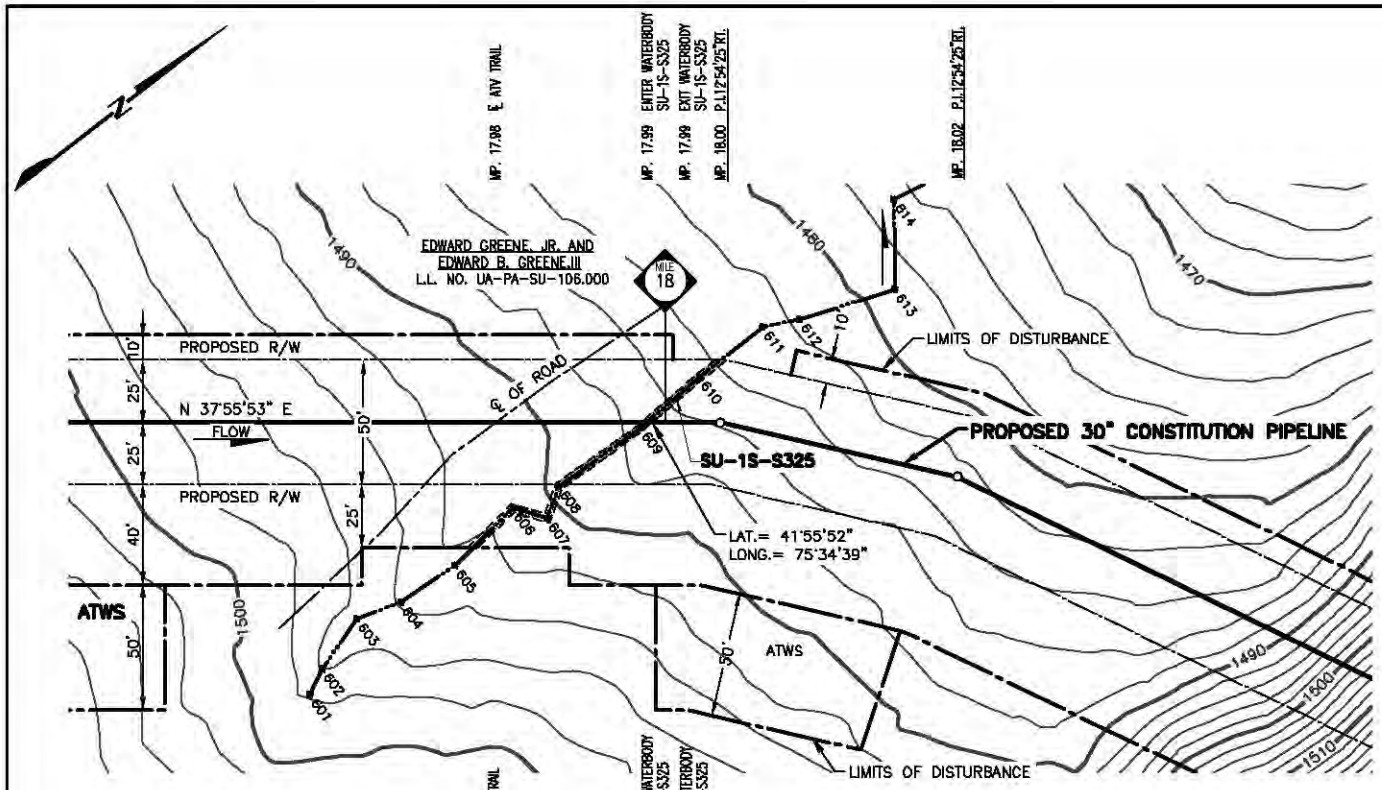
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	06-28-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	07-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-21-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-28-13	GIE	ISSUE FOR USE	1110415		

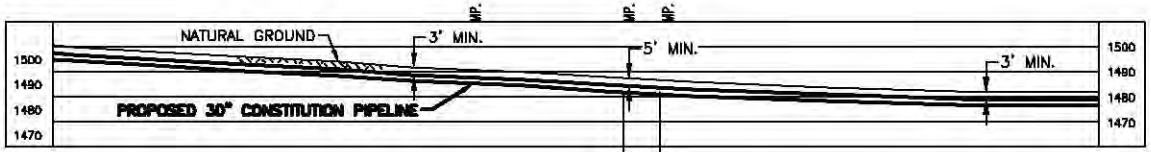
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS SU-1K-S076
AND SU-1K-S076A @ M.P. 15.82
JACKSON TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 05-07-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1K-S076-1-2	SHEET 35 OF 214
WO: 1110415			





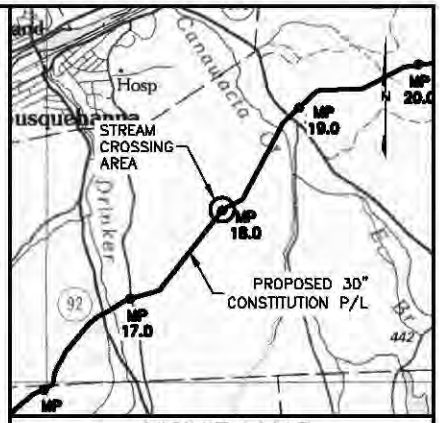
30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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



VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)		State Water Quality Standard	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1S-S325	UNT to Canawacta Creek	Ephemeral	2	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-18	ALIGNMENT SHEET

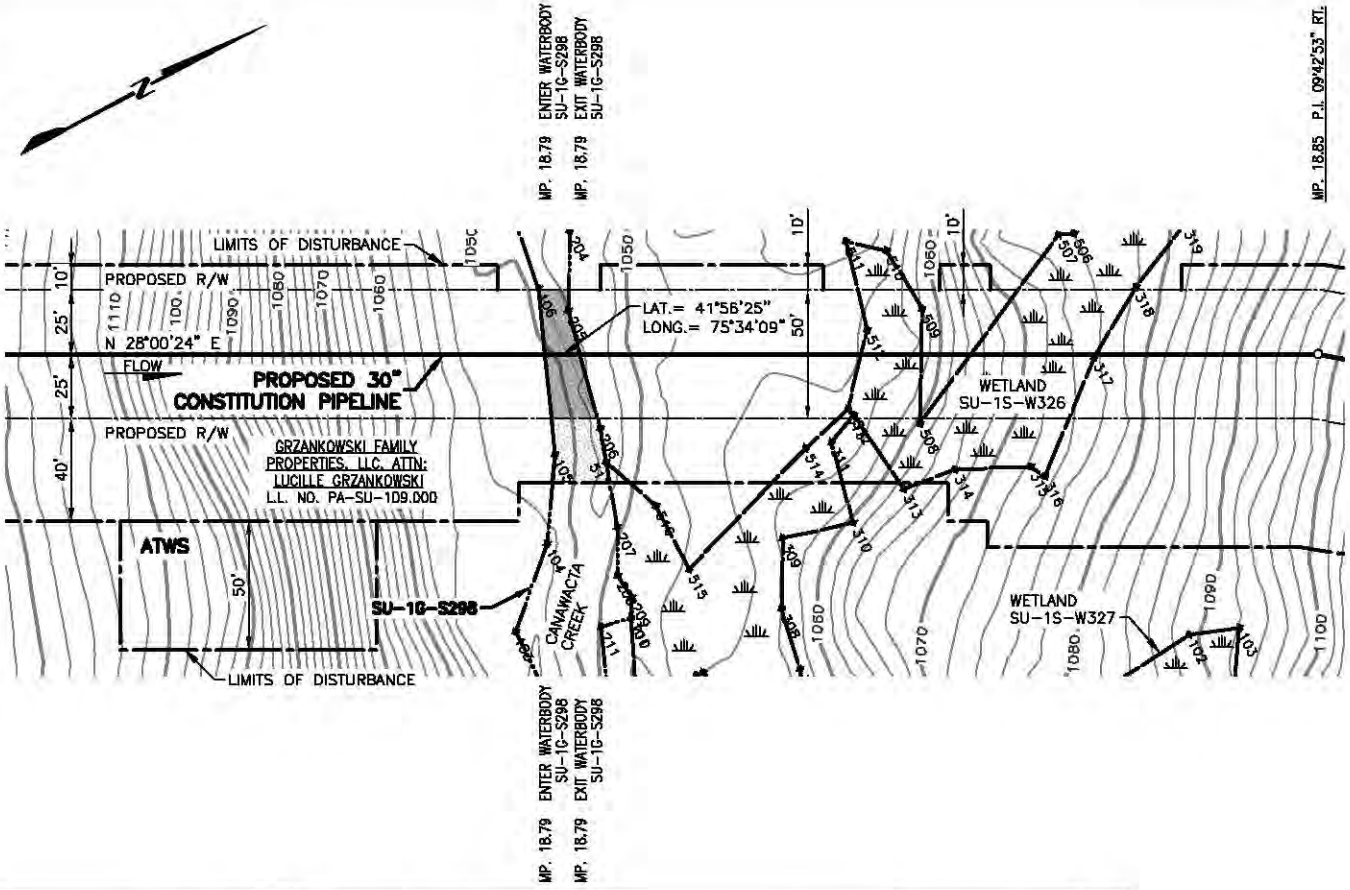
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	111D415		
B	10-24-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	111D415		
D	10-28-13	GIE	ISSUE FOR REVIEW	111D415		
1	10-31-13	GIE	ISSUE FOR USE	111D415		

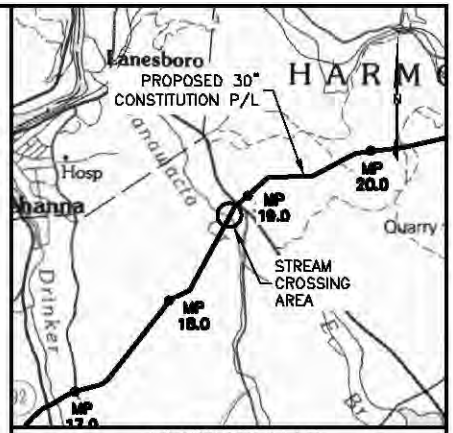
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1S-S325 @ M.P. 17.99
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-09-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1S-S325-1-1	SHEET 36 OF 214
WO: 111D415			



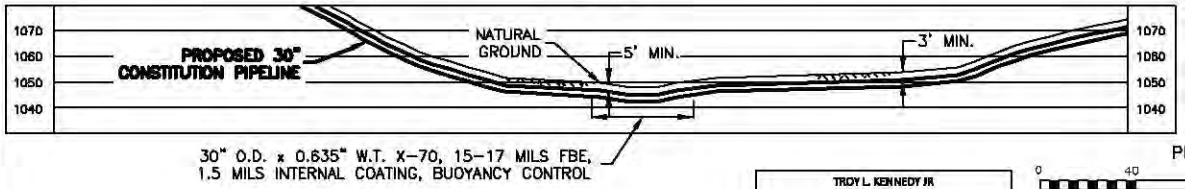


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)		State Water Quality Standard	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1G-S298	Canawacta Creek	Intermittent	16	0.01	0.02	CWF	Trout Stocked	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-19	ALIGNMENT SHEET

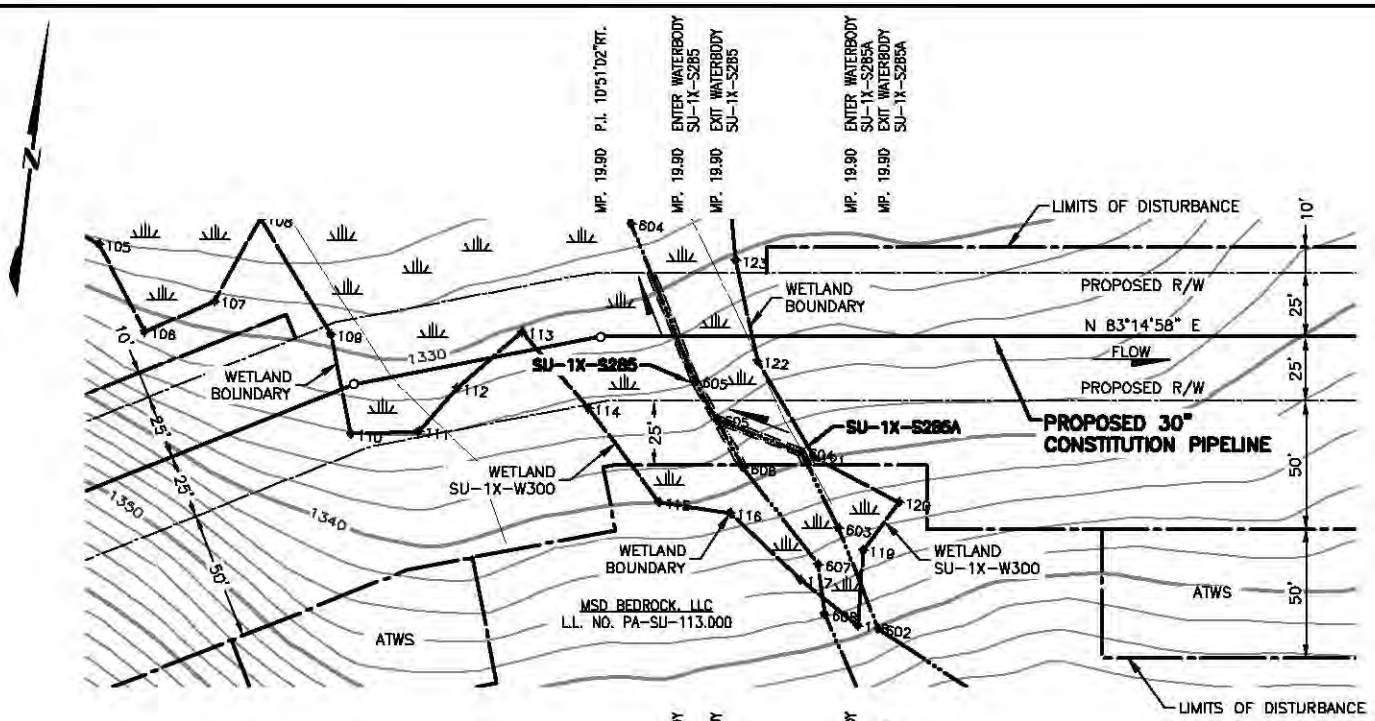
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-11-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-24-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-28-13	GIE	ISSUE FOR REVIEW	1110415		
1	10-31-13	GIE	ISSUE FOR USE	1110415		

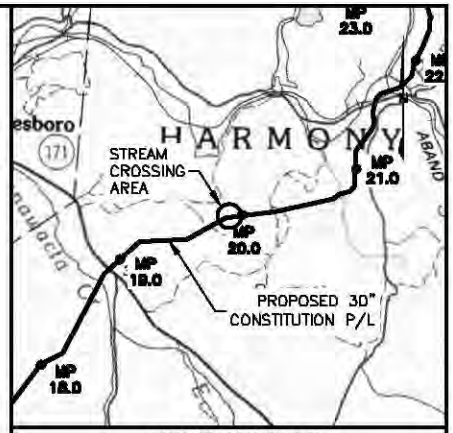
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1G-S298 @ M.P. 18.79
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-10-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1G-S298-1-1	SHEET 37 OF 214
WO: 1110415			



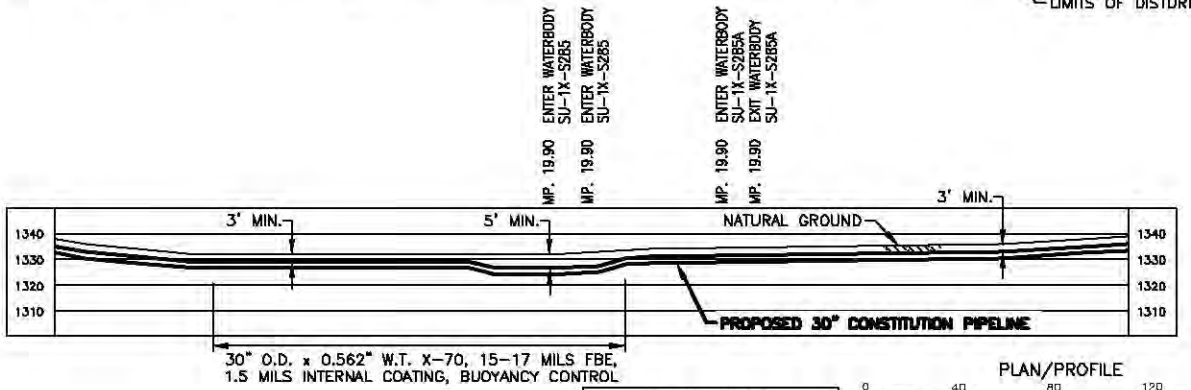


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1X-S285	UNT to Starruca Creek	Ephemeral	1	0.01	0.01	CWF	N/A	Dry
SU-1X-S285A	UNT to Starruca Creek	Ephemeral	0	0.01		CWF	N/A	N/A

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-20	ALIGNMENT SHEET

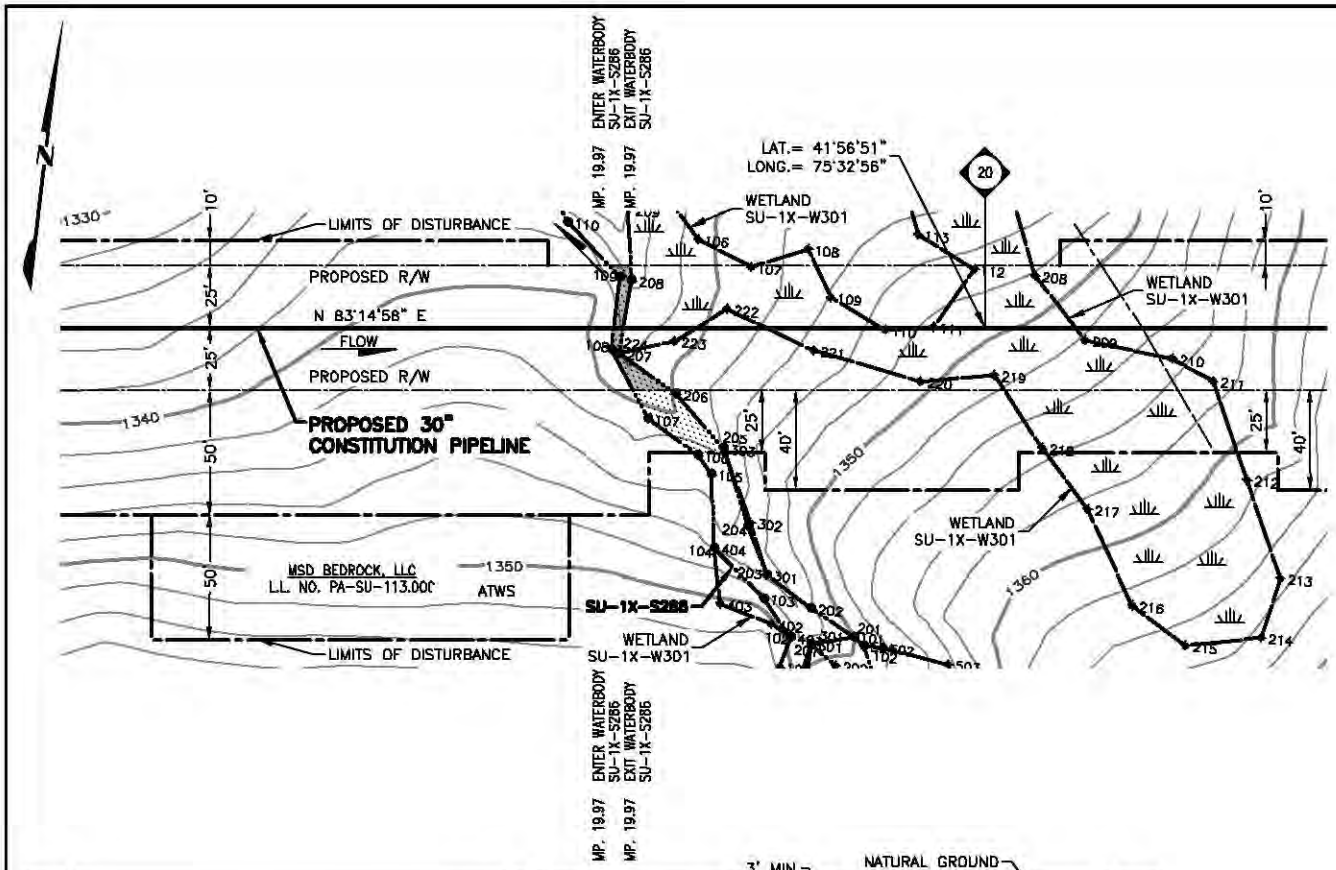
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-10-13	GIE	ISSUE FOR CLIENT REVIEW	1110415		
B	10-24-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
D	10-28-13	GIE	ISSUE FOR USE	1110415		

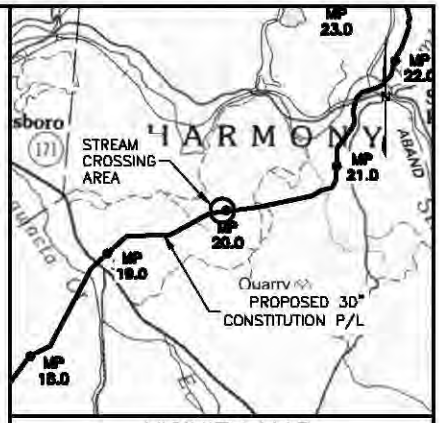
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS SU-1X-S285 AND SU-1X-S285A @ M.P. 19.90
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-10-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1X-S285-1-0	SHEET 38 OF 214
WO: 1110415			



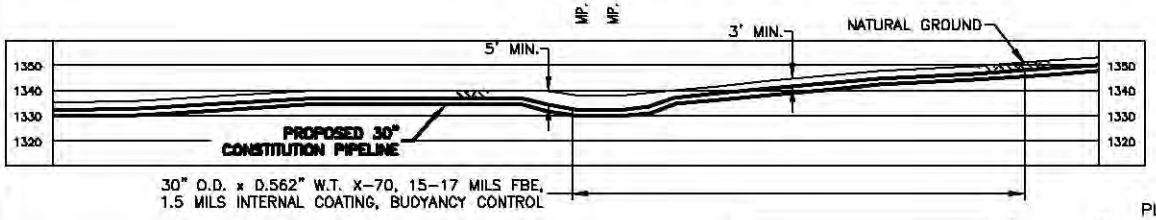


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1X-S286	UNT to Starrucca Creek	Perennial	4	0.02	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-20	ALIGNMENT SHEET

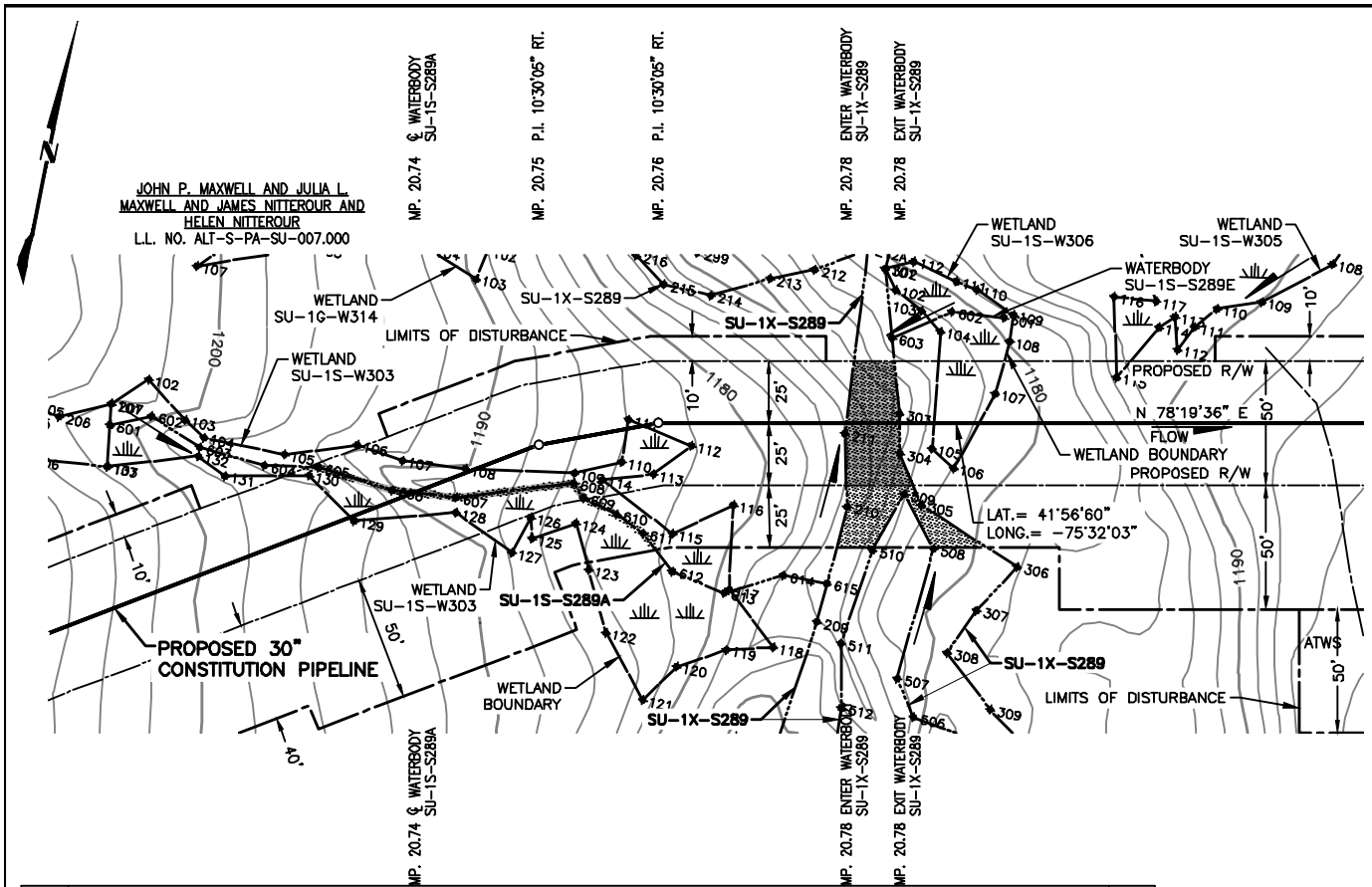
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-14-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-29-13	GIE	ISSUE FOR USE	1110415		

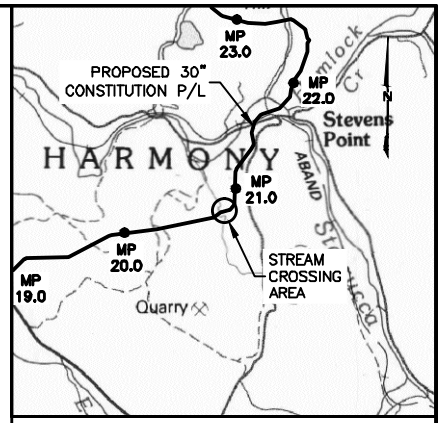
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1X-S286 @ M.P. 19.97
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-14-13	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1X-S286-1-D	SHEET 39 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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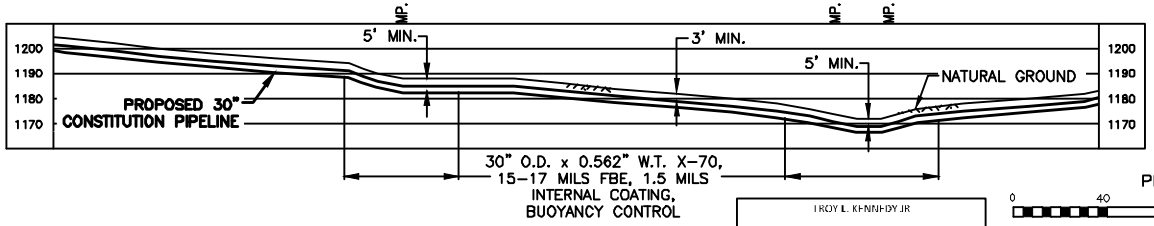


PLAN/PROFILE

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1S-S289A	UNT to Starrucca Creek	Intermittent	6	0.01	0.01	CWF	N/A	DRY
SU-1X-S289	UNT to Starrucca Creek	Perennial	22	0.04	0.02	CWF	N/A	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-21	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-16-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

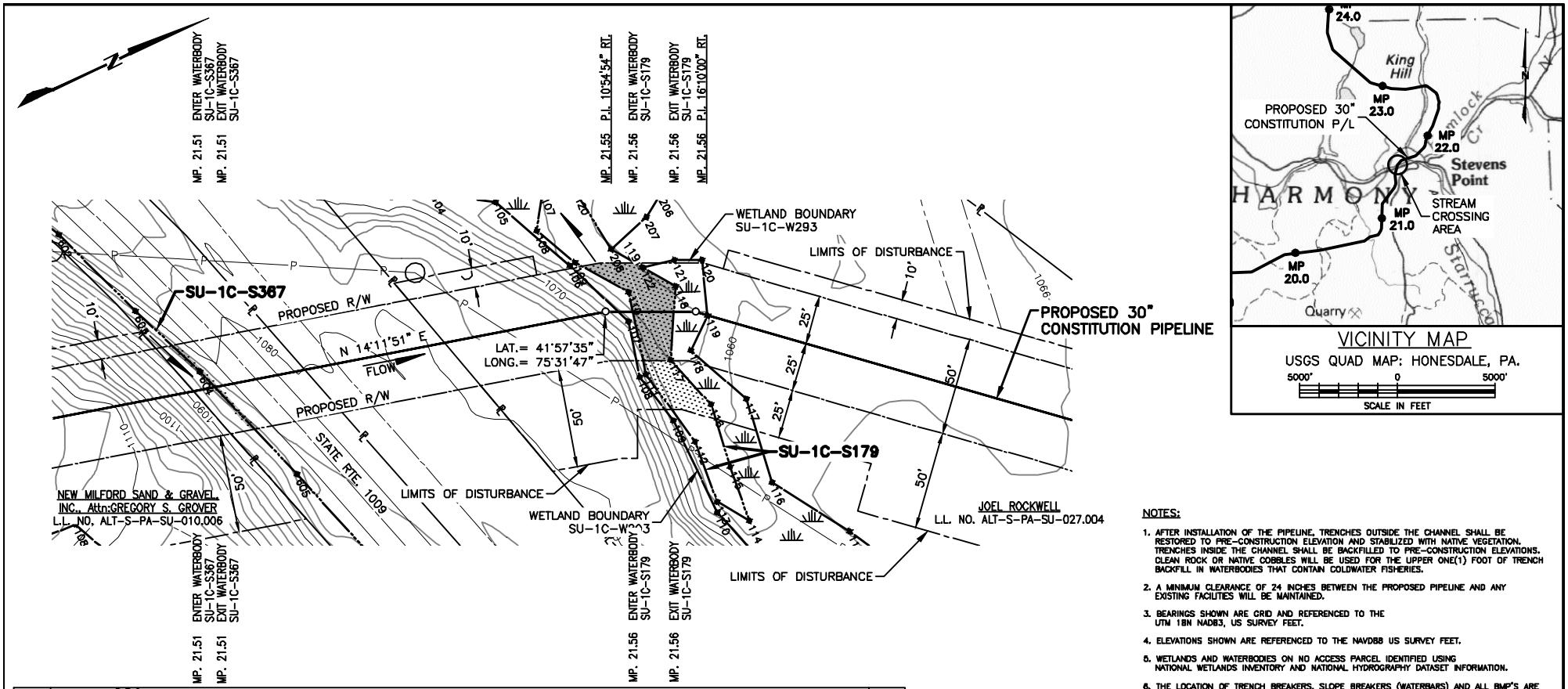
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1S-S289A AND SU-1X-S289 @ M.P.20.74
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

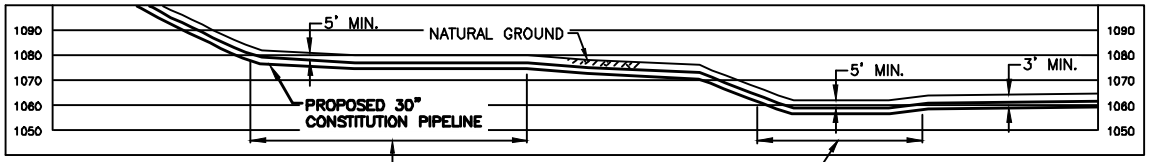
CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-14-13	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-09-70/SU-1S-S289A-1-0	SHEET 40 OF 214
WO: 1110415			



VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.



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

30" O.D. x 0.635" 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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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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1C-S367	UNT to Starruca Creek	Intermittent	4	0.00	0.01	CWF	N/A	Conventional Bore
SU-1C-S179	UNT to Starruca Creek	Perennial	21	0.01	0.03	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-22	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 - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

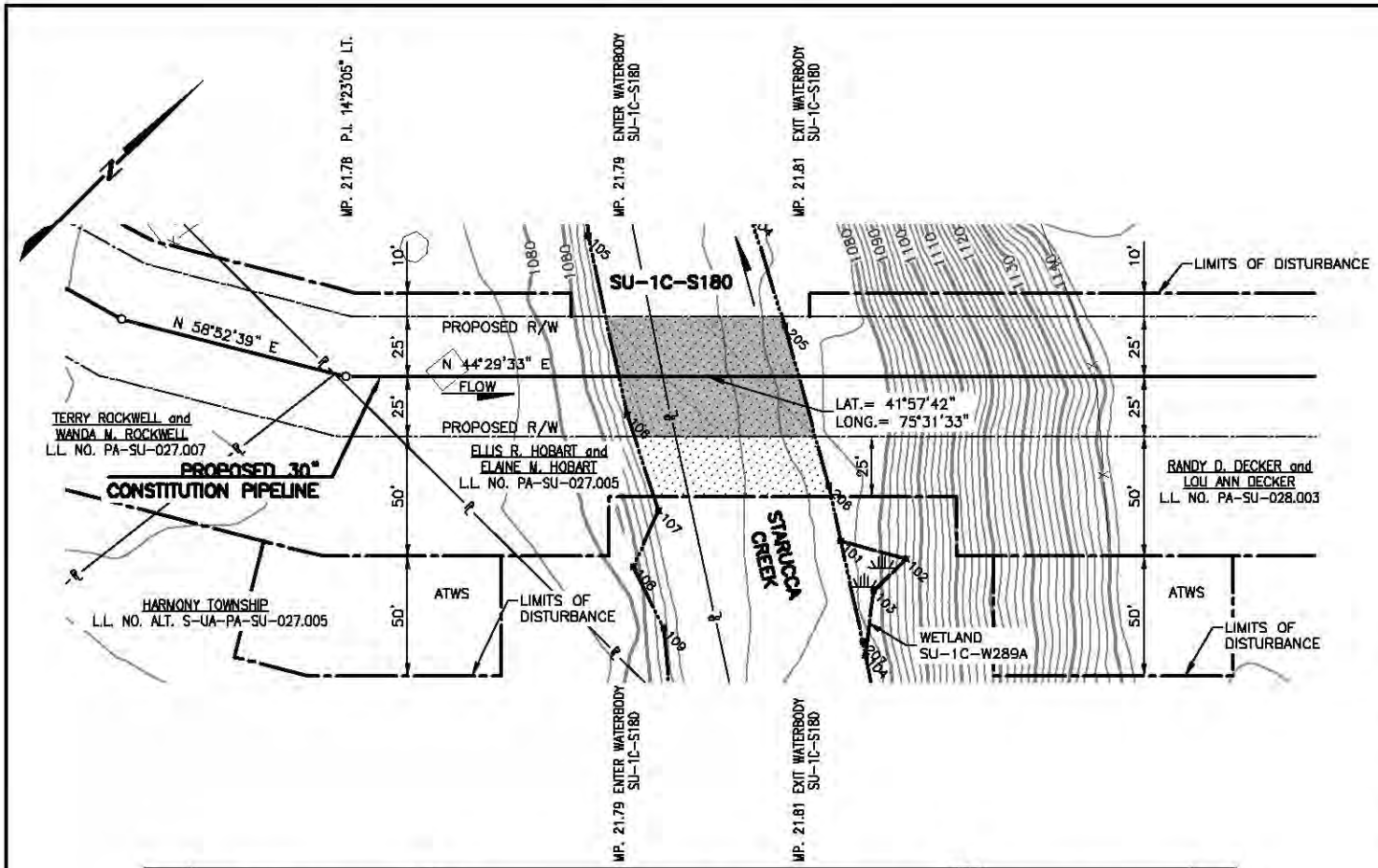
APPLICATION NO.: NAN-2012-00449-UBR

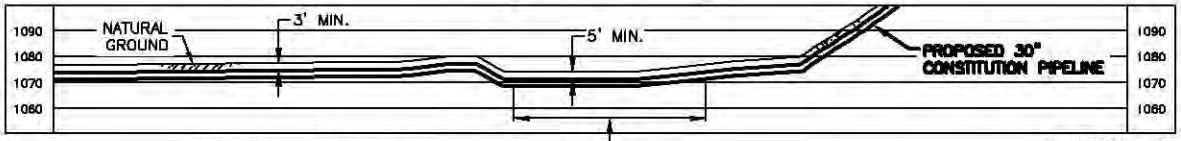
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1C-S367 AND SU-1C-S179 @ M.P. 21.51
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-14-13	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-09-70/SU-1C-S367-1-0	SHEET 41 OF 214
WO: 1110415			



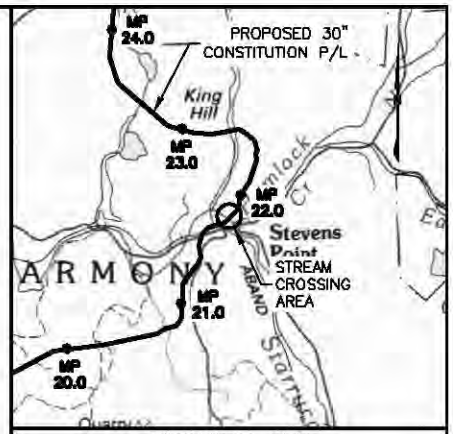


30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160
SCALE IN FEET

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



VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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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Waterbody ID	Waterbody Name	Flow Regime	Crossing Length (feet)	Stream Disturbance (acres)		State Water Quality Standard	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1C-S180	STARUCCA CREEK	Perennial	75	0.04	0.09	CWF	Trout Stocked	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-22	ALIGNMENT SHEET

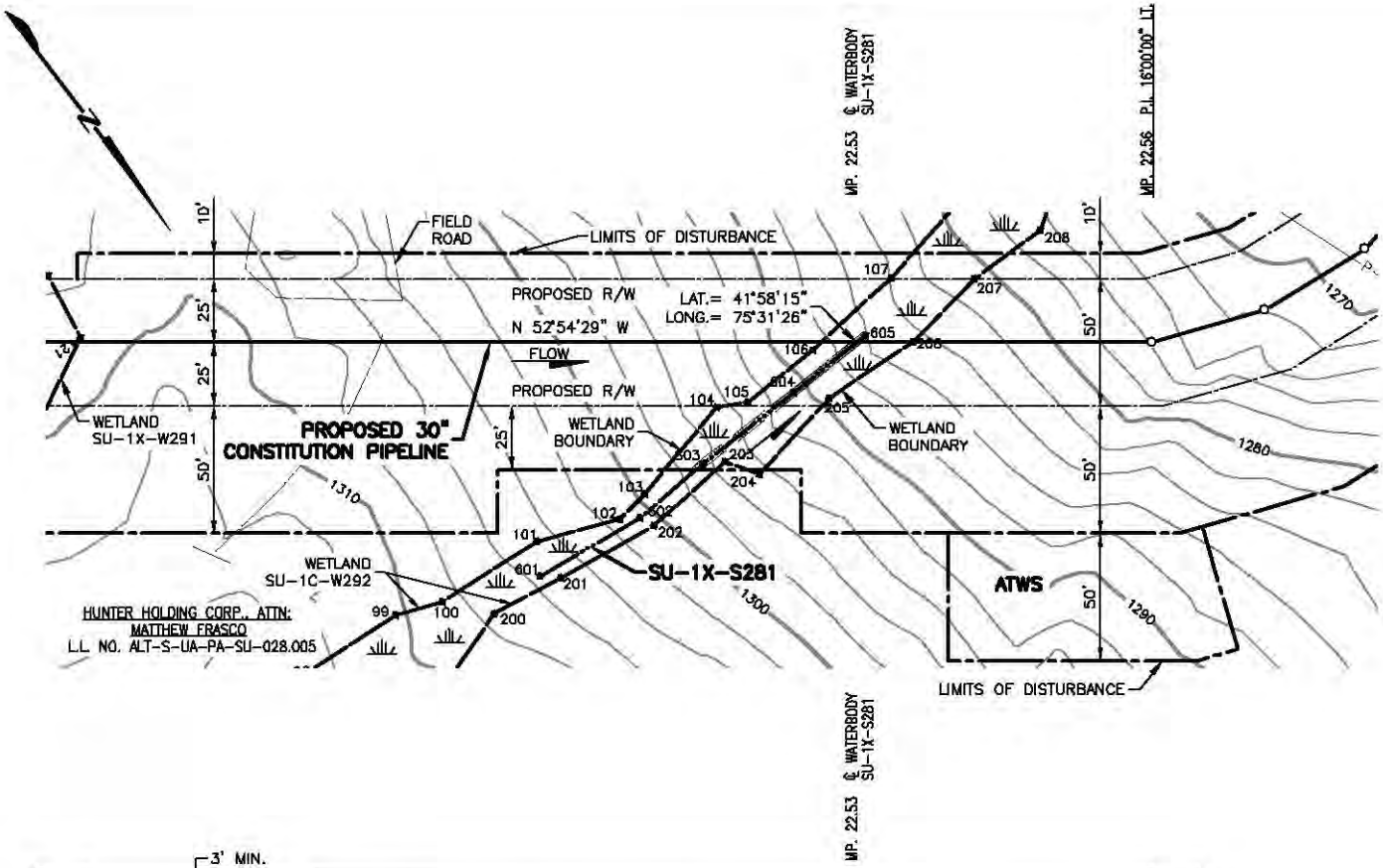
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

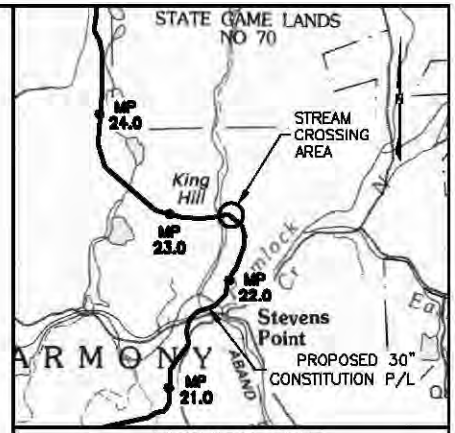
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1C-S180 @ M.P. 21.79
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-15-13	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1C-S180-1-0	SHEET 42 OF 214
WO: 1110415			



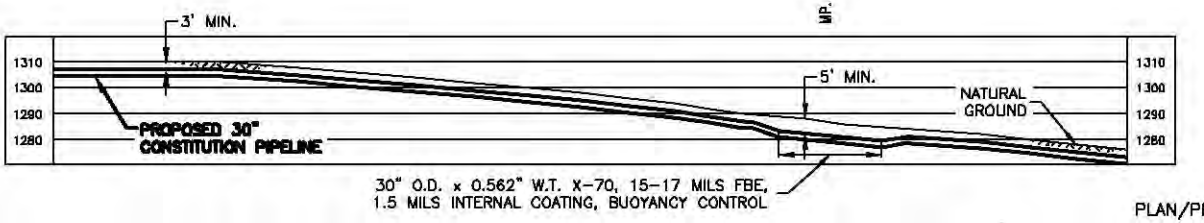


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1X-S281	UNT to Roaring Run	Intermittent	2	0.01	0.01	CWF	Natural Trout Reproduction	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-23	ALIGNMENT SHEET

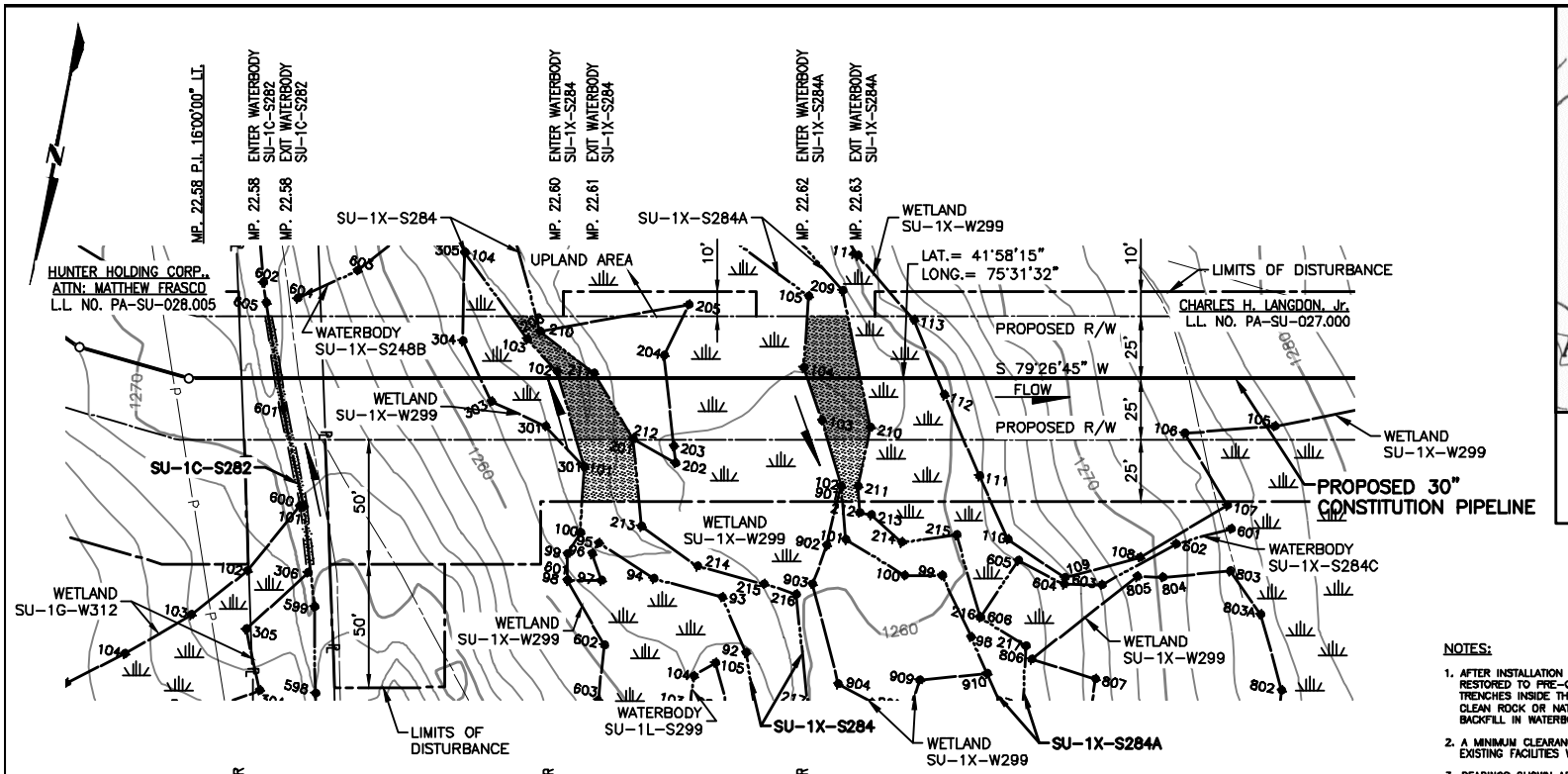
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-19-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

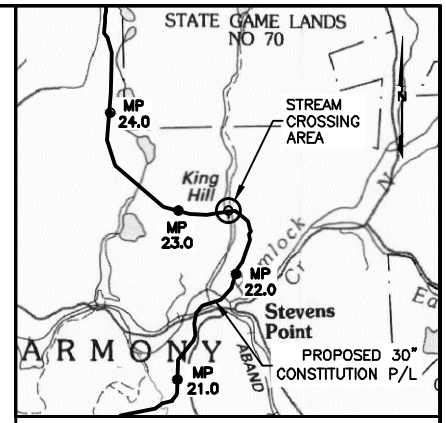
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1X-S281 @ M.P. 22.53
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-15-13	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1X-S281-1-0	SHEET 43 OF 214
WO: 1110415			



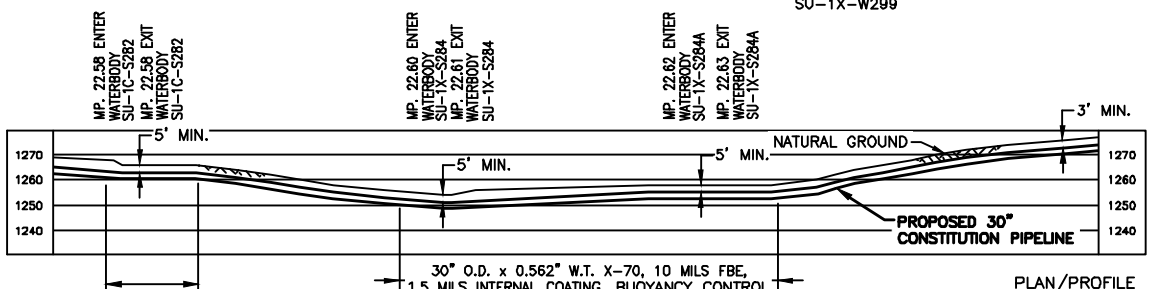


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1C-S282	UNT to Roaring Run	Intermittent	3	0.00	0.01	CWF	Natural Trout Reproduction	Dry
SU-1X-S284	Roaring Run	Perennial	15	0.01	0.02	CWF	Natural Trout Reproduction	Dry
SU-1X-S284A	Roaring Run	Intermittent	22	0.01	0.02	CWF	Natural Trout Reproduction	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-23	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-21-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-28-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

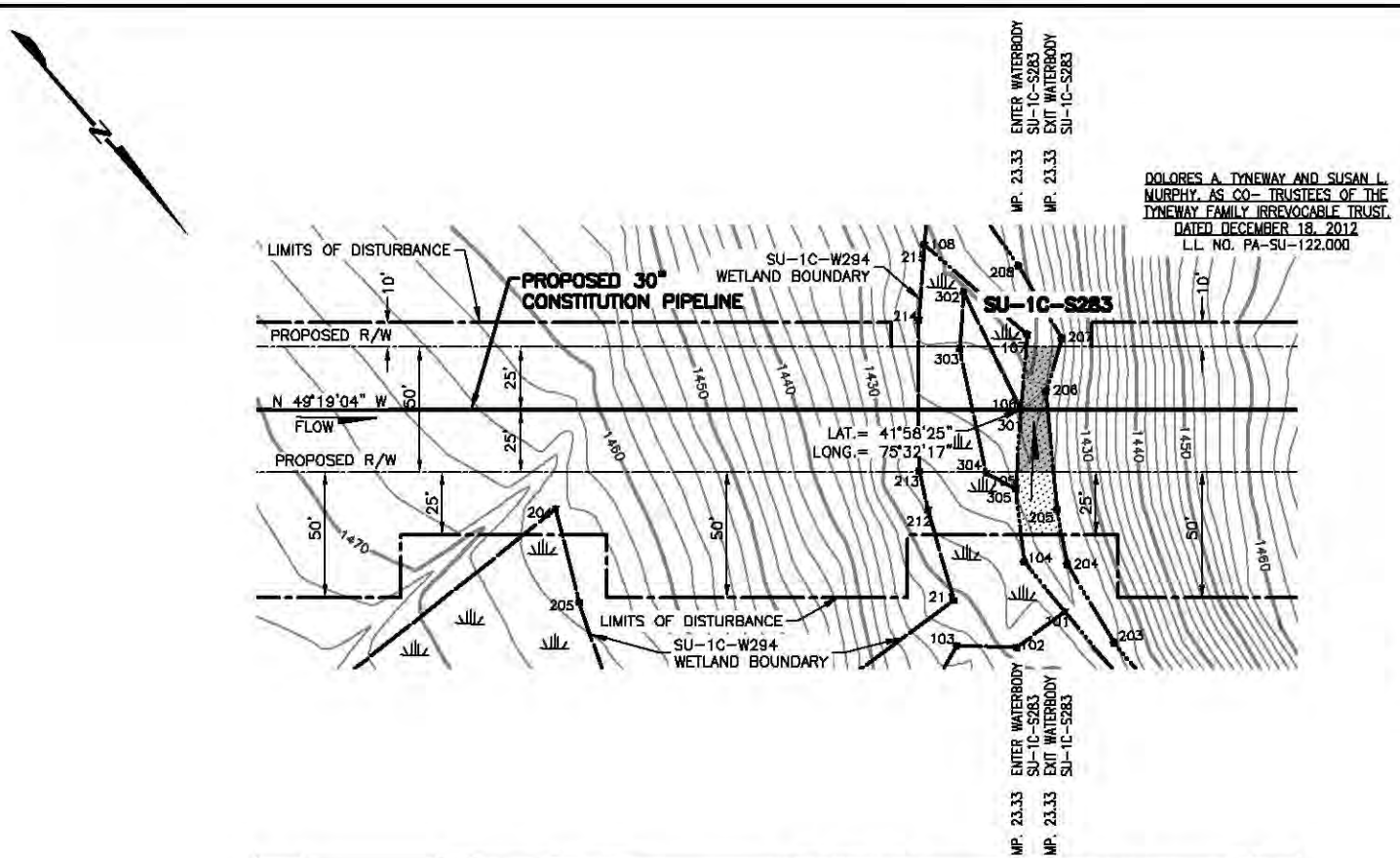
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

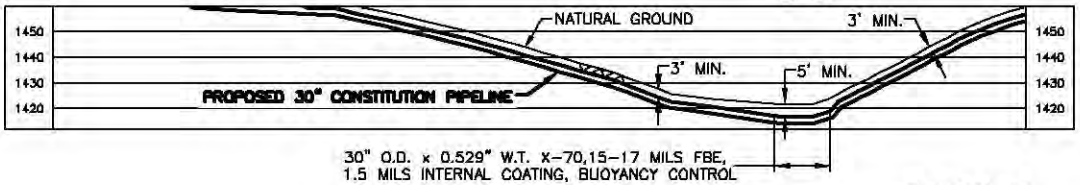
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1C-S282, SU-1X-S284 AND SU-1X-284A
@ M.P. 22.58 HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 10-17-13	ISSUED FOR BID:	SCALE: NTS
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-09-70/SU-1C-S282-1-0	SHEET 44 OF 214
WO: 1110415			



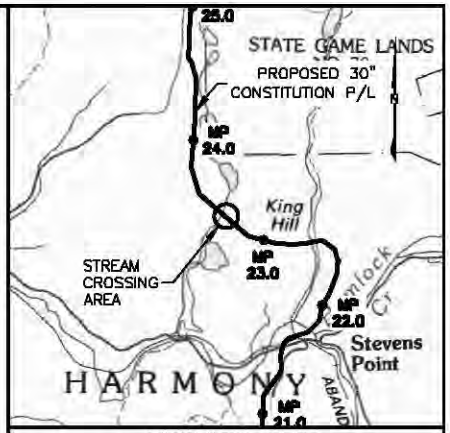


PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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



VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1C-S283	Little Roaring Brook	Perennial	10	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-24	ALIGNMENT SHEET

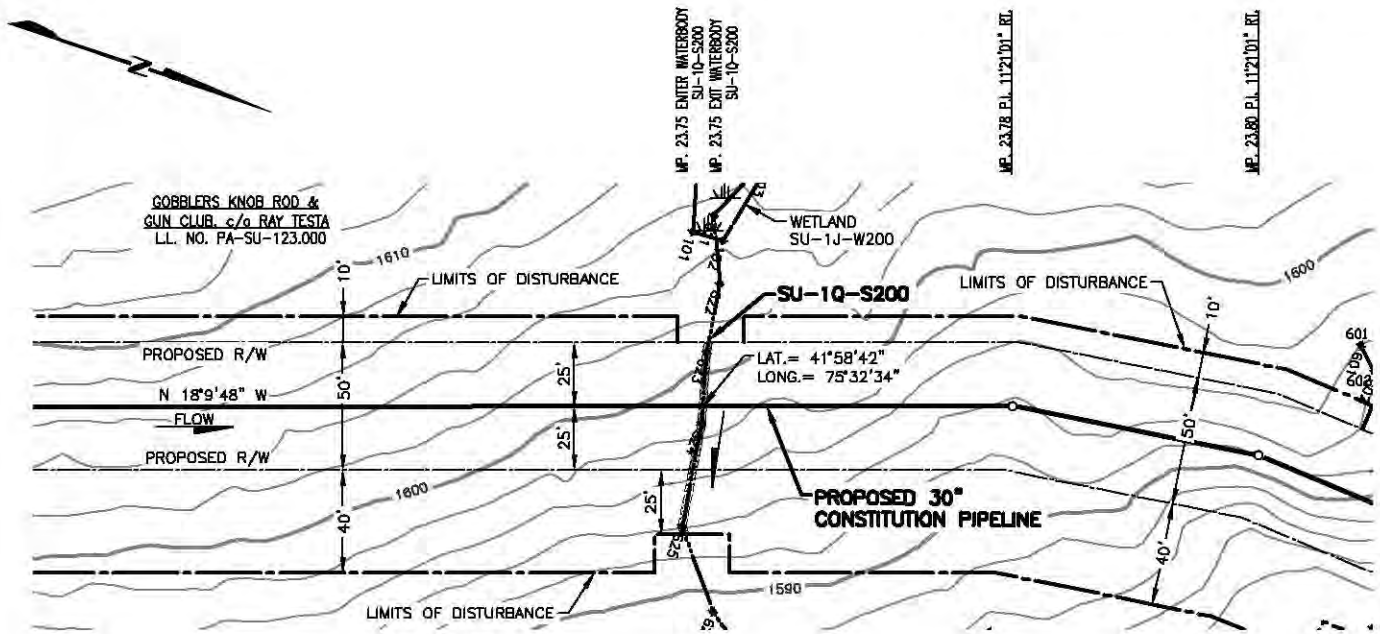
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-16-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

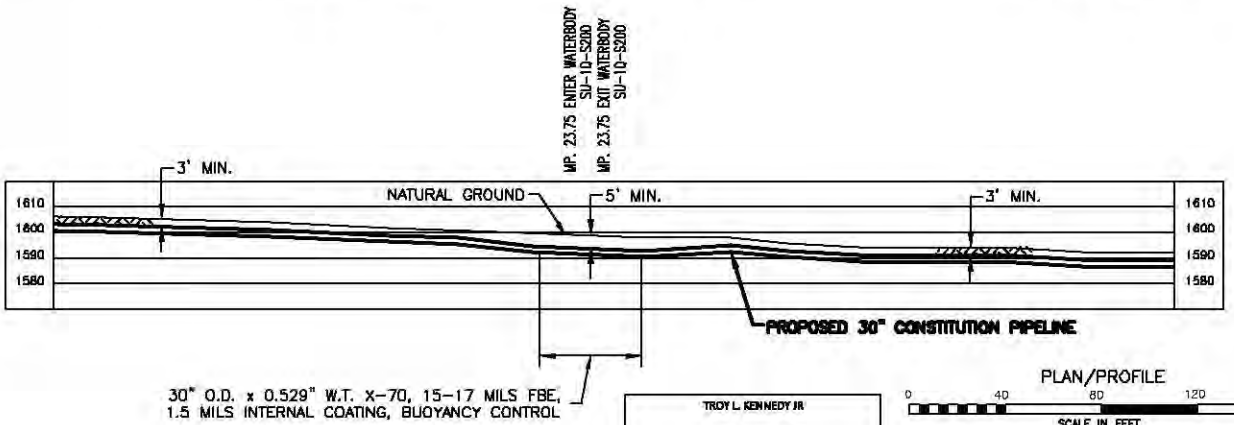
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1C-S283 @ M.P. 23.33
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 10-09-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1C-S283-1-0	SHEET 45 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.
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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1Q-S200	UNT to Little Roaring Brook	Intermittent	3	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-24	ALIGNMENT SHEET

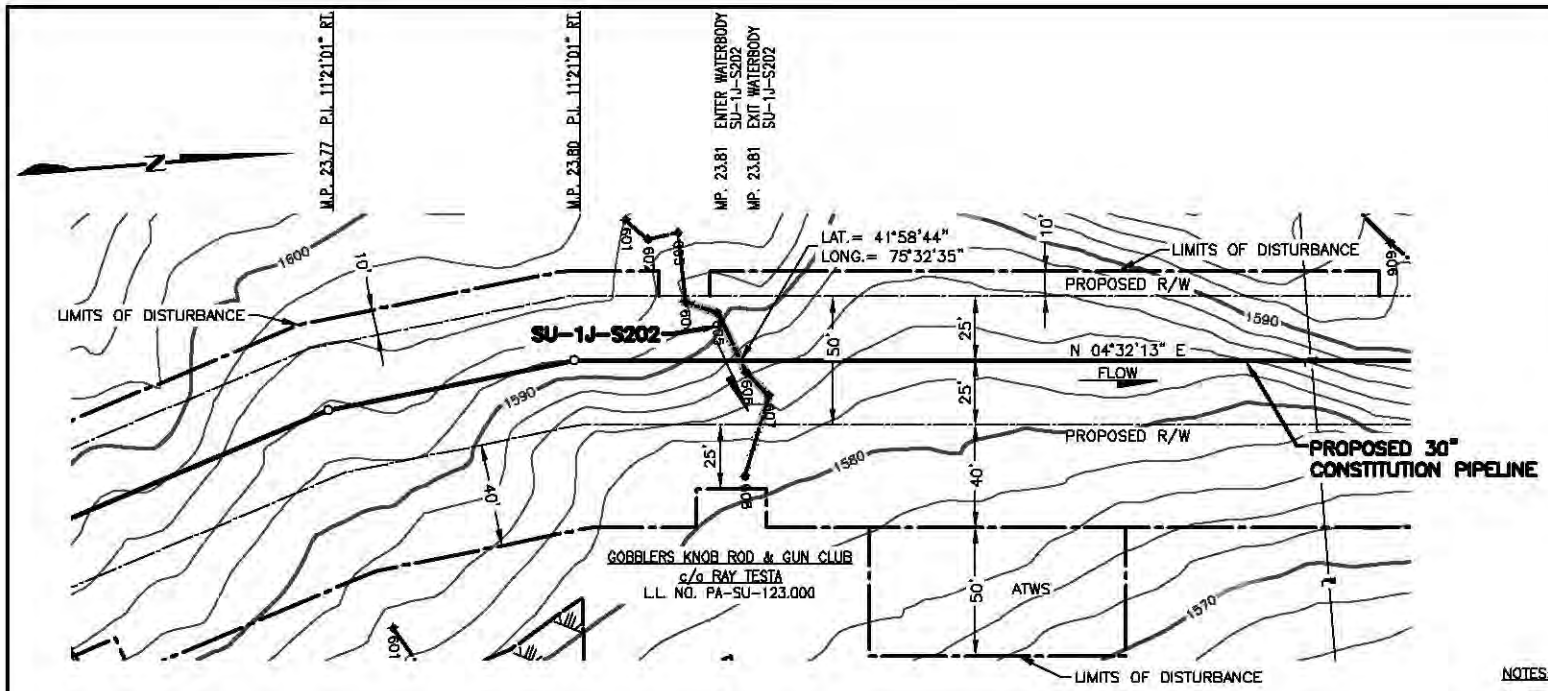
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	07-17-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	07-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-07-13	GIE	ISSUE FOR USE	1110415		
2	10-31-13	GIE	ISSUED FOR USE	1110415		

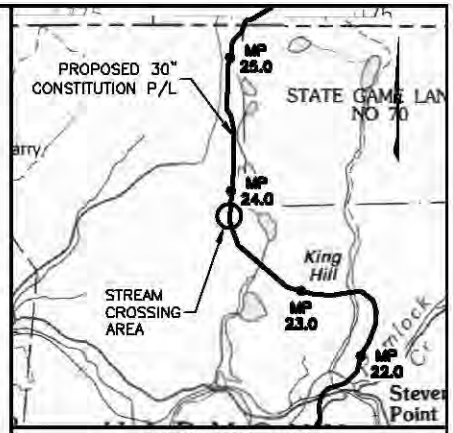
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1Q-S200 M.P. 23.75
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 07-08-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1Q-S200-1-2	SHEET 46 OF 214
WO: 1110415			



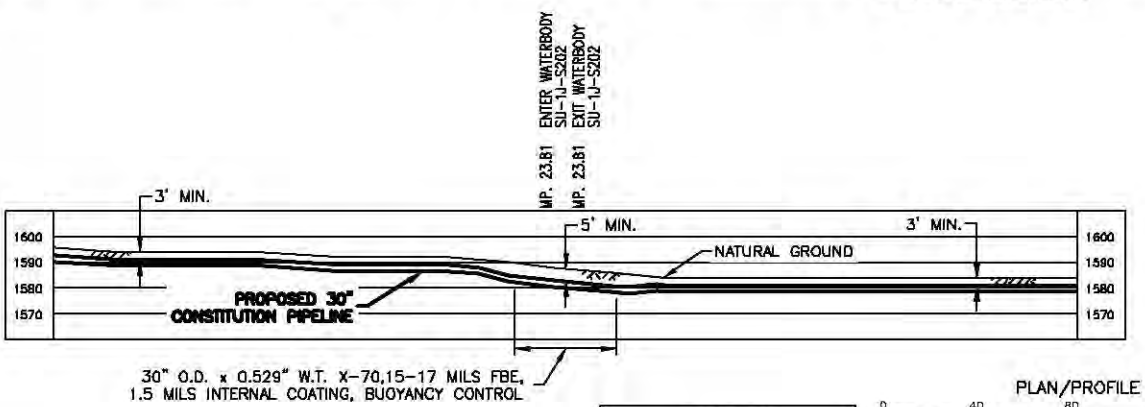


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1J-S202	UNT to Little Roaring Brook	Ephemeral	2	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-24	ALIGNMENT SHEET

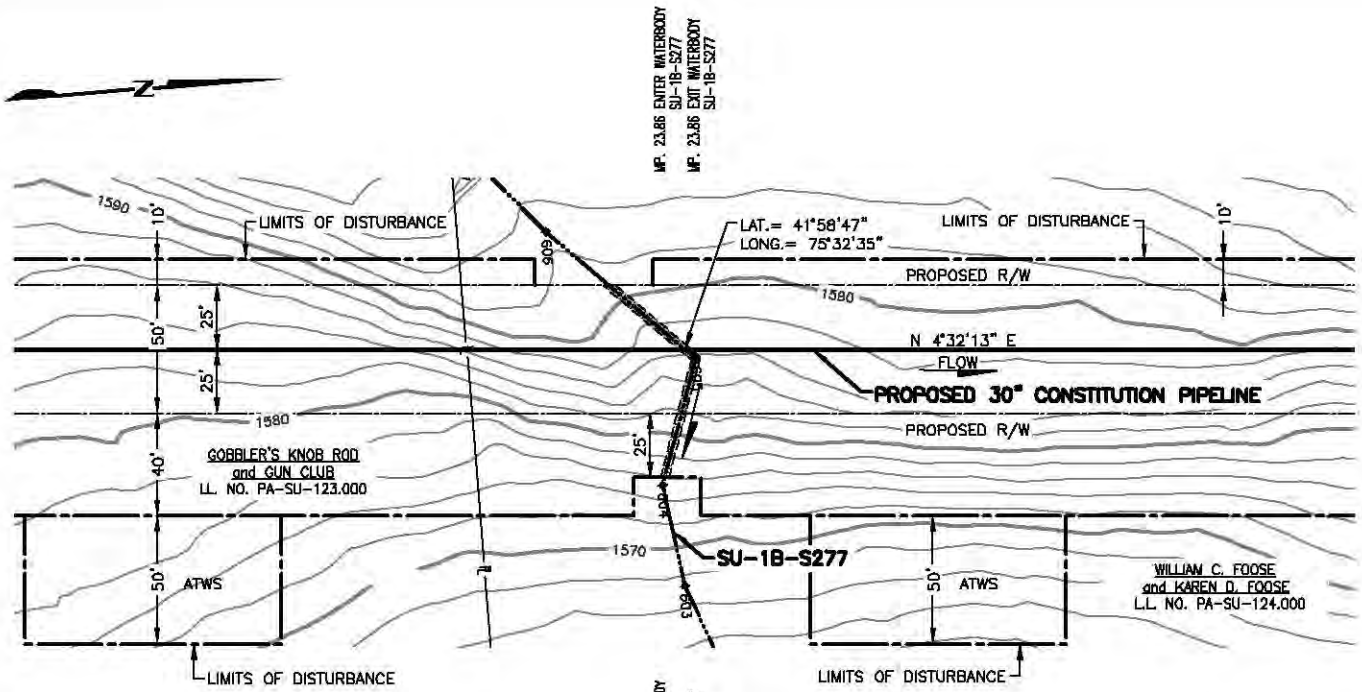
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-26-13	GE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-08-13	GE	ISSUE FOR USE	1110415		
1	10-07-13	GE	REVISED - ISSUE FOR USE	1110415		
2	10-28-13	GE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GE	ISSUE FOR USE	1110415		

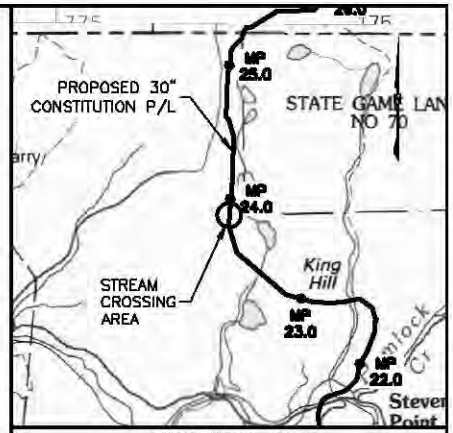
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1J-S202 @ M.P. 23.81
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 06-15-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1J-S202-1-3	SHEET 47 OF 214
WO: 1110415			



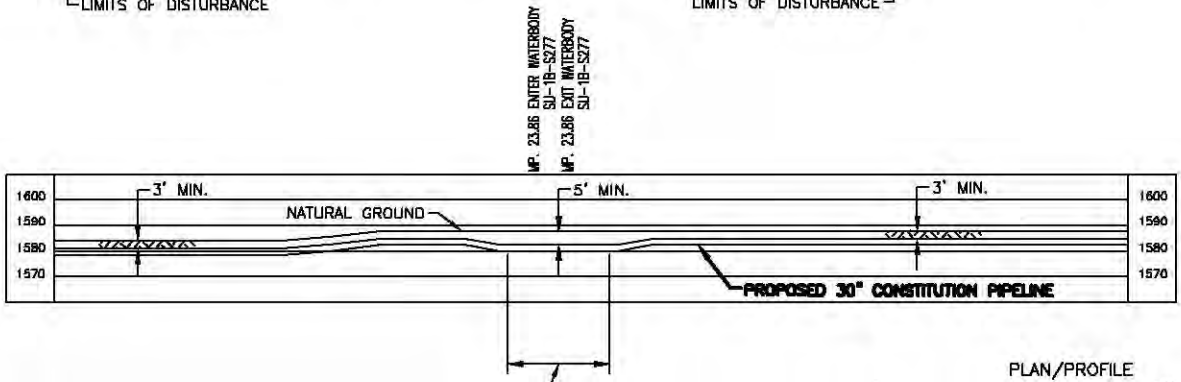


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1B-S277	UNT to Little Roaring Brook	Intermittent	6	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-24	ALIGNMENT SHEET

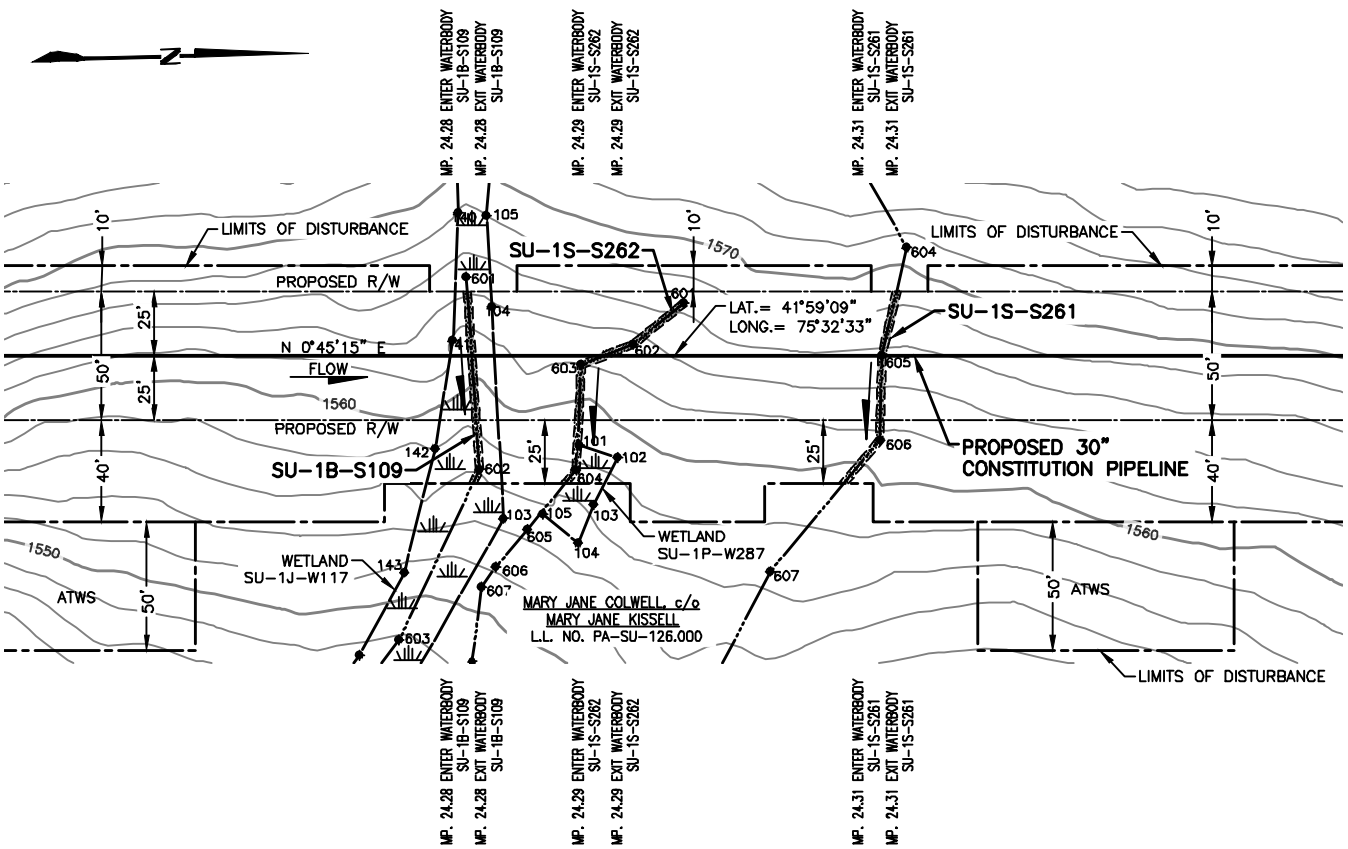
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-26-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-26-13	GE	ISSUE FOR USE	1110415		
1	08-08-13	GE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GE	ISSUE FOR USE	1110415		

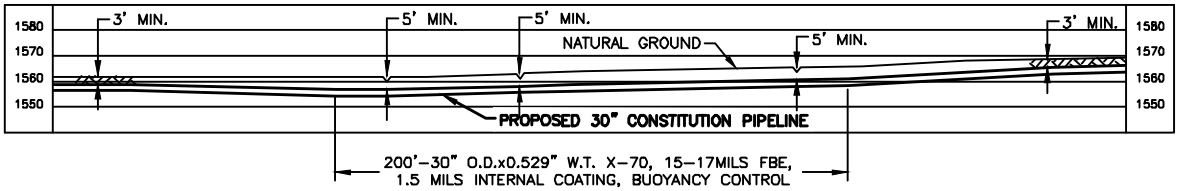
APPLICATION NO.: NAN-2012-00449-UBR

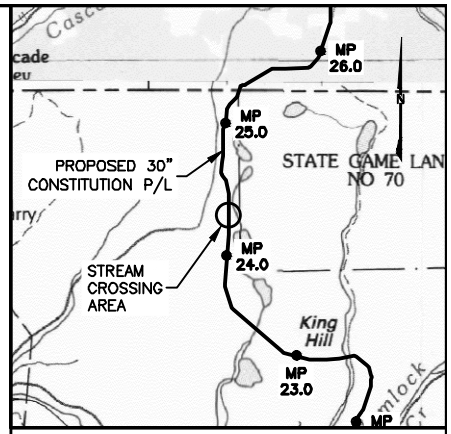
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1B-S277 @ M.P. 23.86
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: GIE	DATE: 06-27-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1B-S277-1-3	SHEET 48 OF 214
WO: 1110415			







VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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.
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) Temporary ROW	Stream Disturbance (acres) 50' Permanent ROW	State Water Quality Standard	State Fishery Classification	Crossing Method
SU-1B-S109	UNT to Little Roaring Brook	Intermittent	2	0.01	0.01	CWF	N/A	Dry
SU-1S-S262	UNT to Little Roaring Brook	Intermittent	1	0.01	0.01	CWF	N/A	Dry
SU-1S-S261	UNT to Little Roaring Brook	Intermittent	1	0.01	0.01	CWF	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
26-26-70/0001-25	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	08-08-13	GIE	ISSUE FOR USE	1110415		
2	09-01-13	GIE	ISSUE FOR USE	1110415		
3	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
5	10-31-13	GIE	ISSUE FOR USE	1110415		

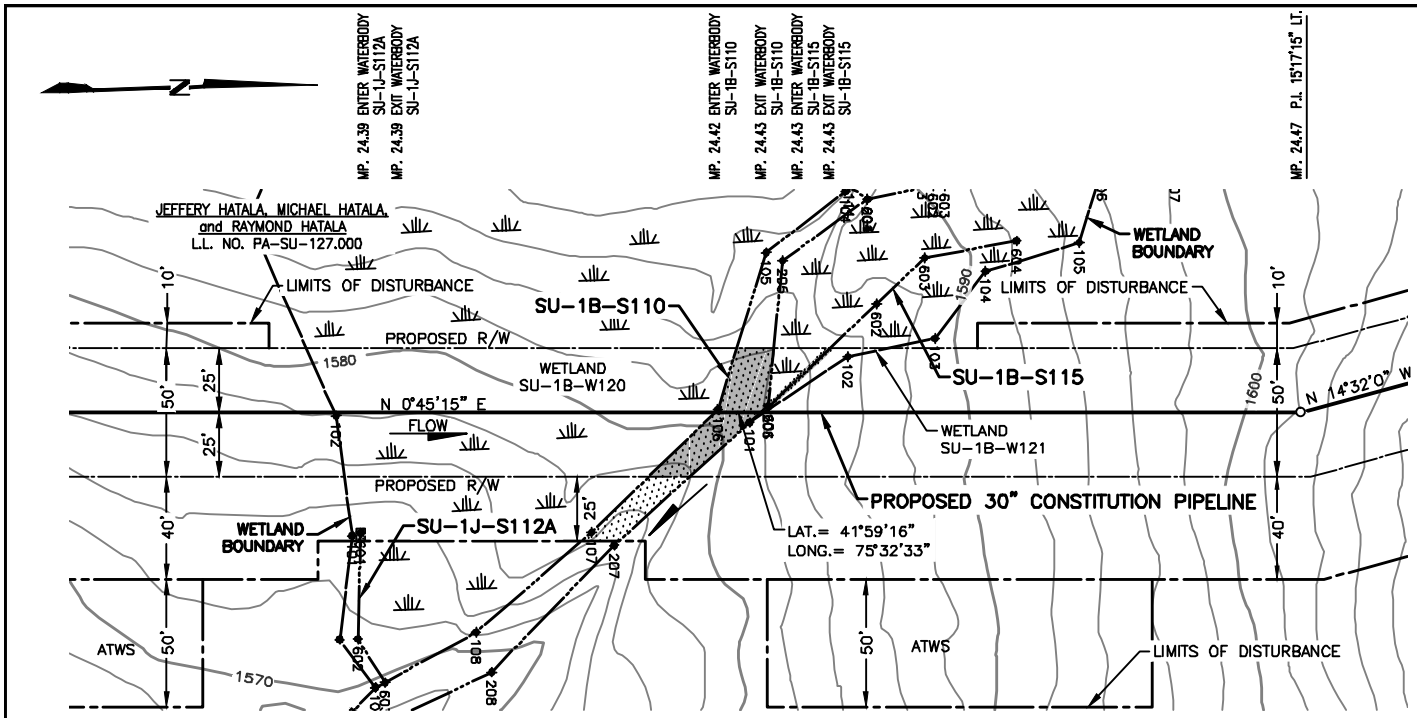
APPLICATION NO.: NAN-2012-00449-UBR

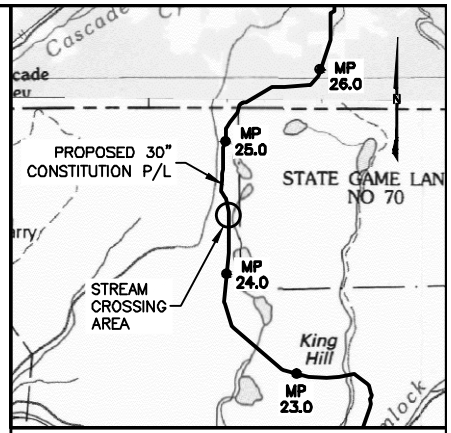
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS SU-1B-S109, SU-1S-S262 AND
SU-1S-S261 @ M.P. 24.29
HARMONY TOWNSHIP SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-27-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1B-S109-1-5	SHEET 49 OF 214
W.O: 1110415			



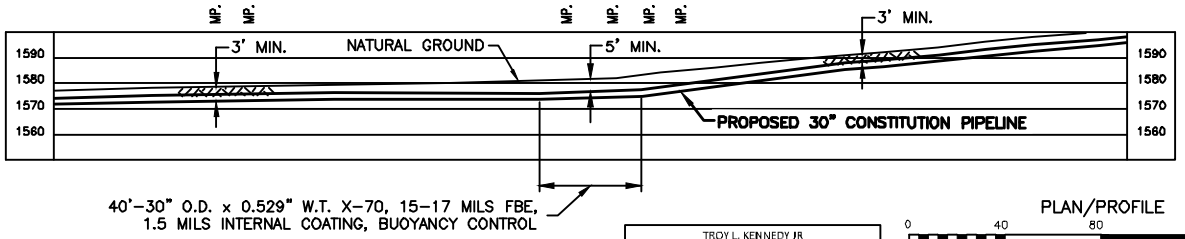


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1B-S110	UNT to Little Roaring Brook	Perennial	18	0.01	0.02	CWF	N/A	Dry
SU-1B-S115	UNT to Little Roaring Brook	Intermittent	0		0.01	CWF	N/A	N/A
SU-1J-S112A	UNT to Little Roaring Brook	Intermittent	0	0.01		CWF	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
26-26-70/0001-25	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	09-16-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

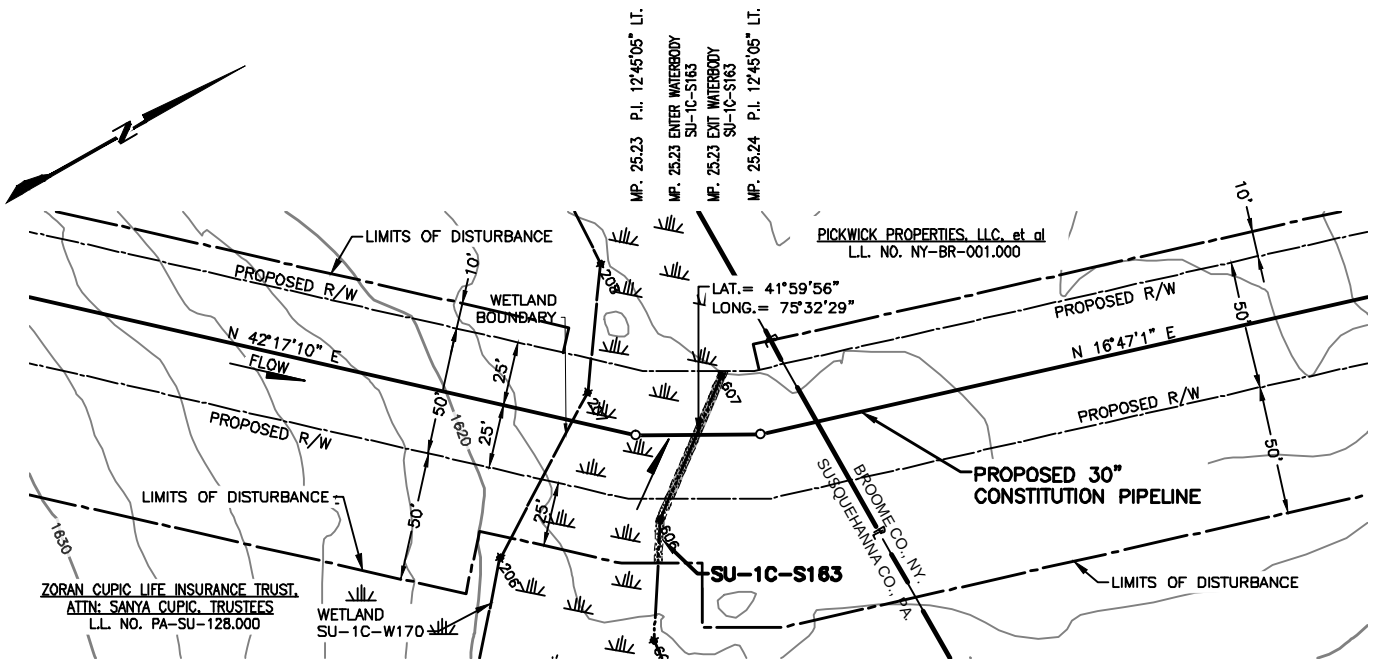
APPLICATION NO.: NAN-2012-00449-UBR

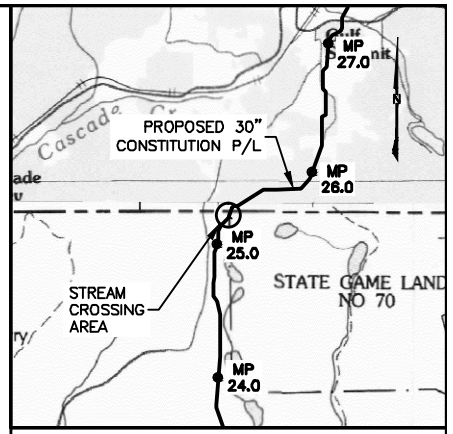
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS SU-1J-S112A, SU-1B-S110,
AND SU-1B-S115 @ M.P. 24.39
HARMONY TOWNSHIP, SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-26-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1J-S112A-1-4	SHEET 50 OF 214
W.O. 1110415			



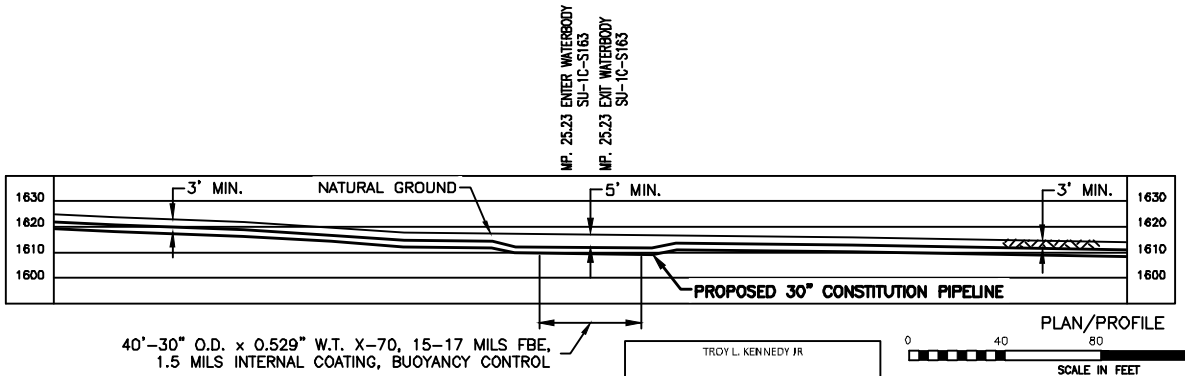


VICINITY MAP

USGS QUAD MAP: HONESDALE, PA.

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	State Fishery Classification	Crossing Method
				Temporary ROW	50' Permanent ROW			
SU-1C-S163	UNT to Cascade Creek	Perennial	1	0.01	0.01	CWF	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

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

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	07-26-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-06-13	GIE	ISSUE FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUED FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUED FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

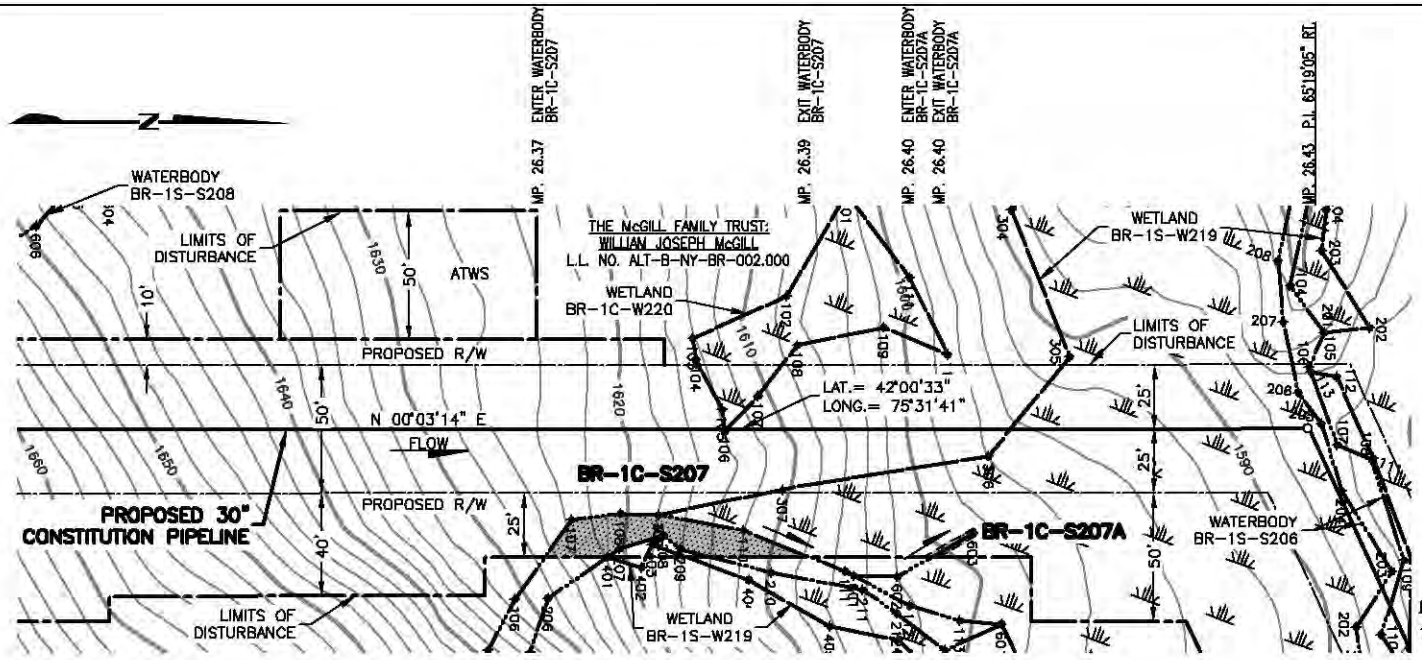
APPLICATION NO.: NAN-2012-00449-UBR

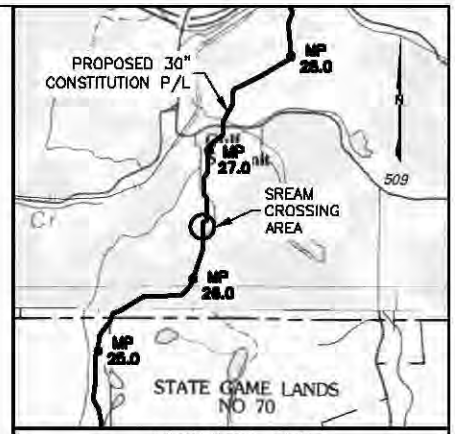
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING SU-1C-S163 @ M.P. 25.23
HARMONY TOWNSHIP
SUSQUEHANNA COUNTY, PENNSYLVANIA

CONSTITUTION PIPELINE

DRAWN BY: GIE	DATE: 06-25-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-70/SU-1C-S163-1-3	SHEET 51 OF 214
WO: 1110415			



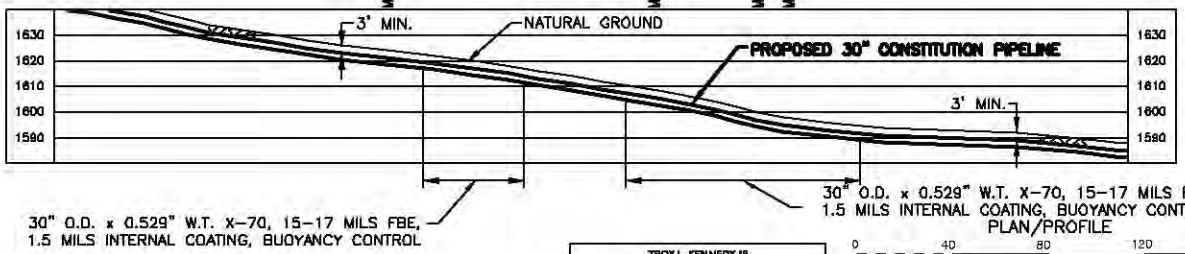


VICINITY MAP

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-1C-S207	UNT to Cascade Creek	Perennial	0	0.02	D	N	N/A	N/A
BR-1C-S207A	UNT to Cascade 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
26-26-70/0001-27	ALIGNMENT SHEET

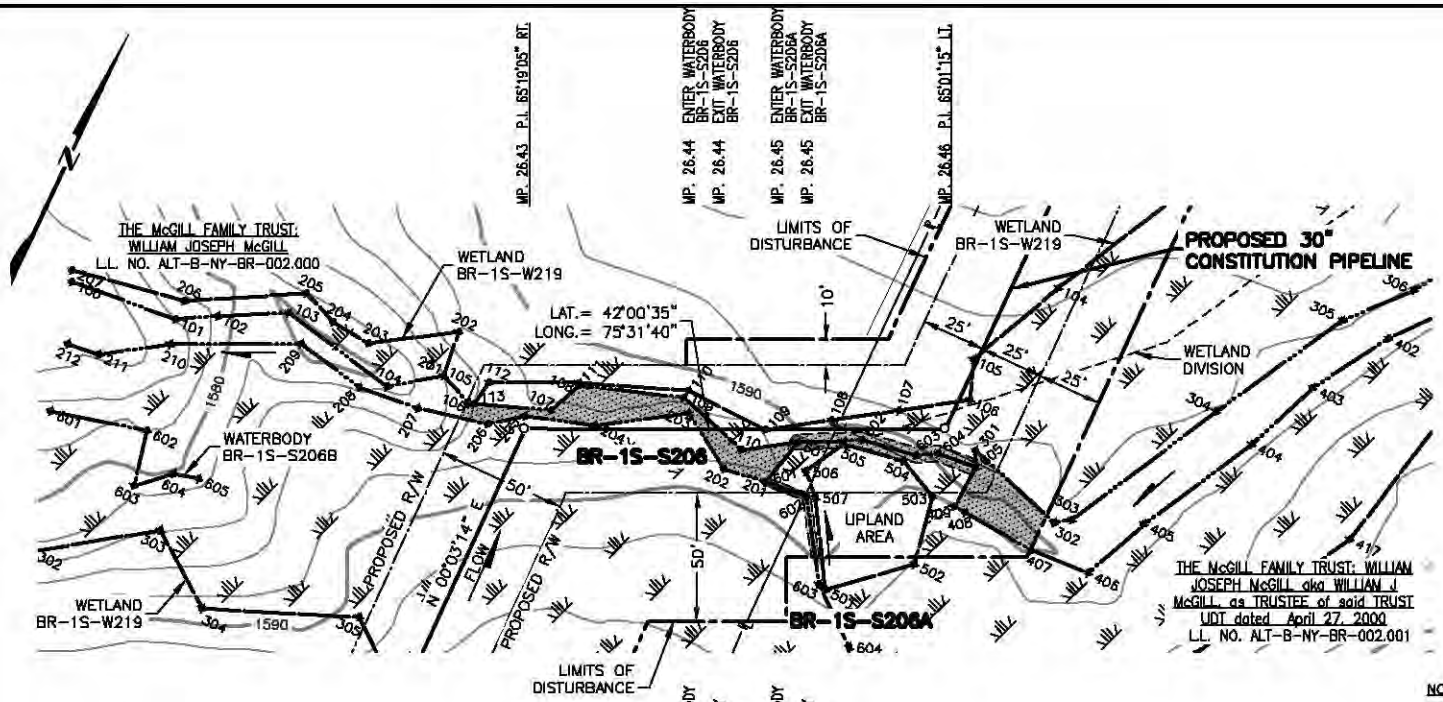
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GE	ISSUED FOR CLIENT REVIEW	1110415		
0	11-01-13	GE	ISSUE FOR USE	1110415		

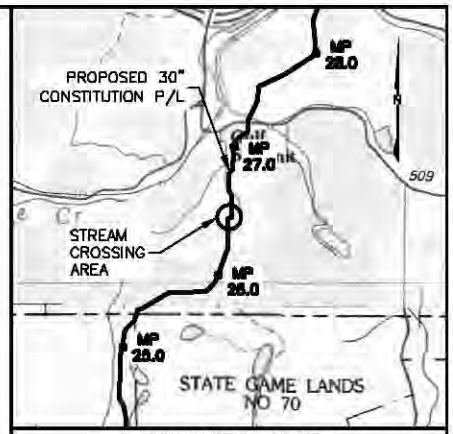
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS BR-1C-S207 AND
BR-1C-S207A @ M.P. 26.37
TOWN OF SANFORD BROOME 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/BR-1C-S207-1-0	SHEET 52 OF 214
WO: 1110415			



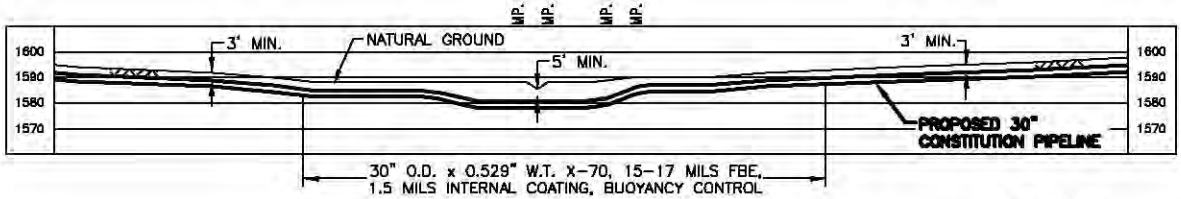


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



NOTES:

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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-1S-S206	UNT to Cascade Creek	Perennial	8	0.05	C(T)	Y	T	Dry
BR-1S-S206A	UNT to Cascade 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
26-26-70/0001-27	ALIGNMENT SHEET

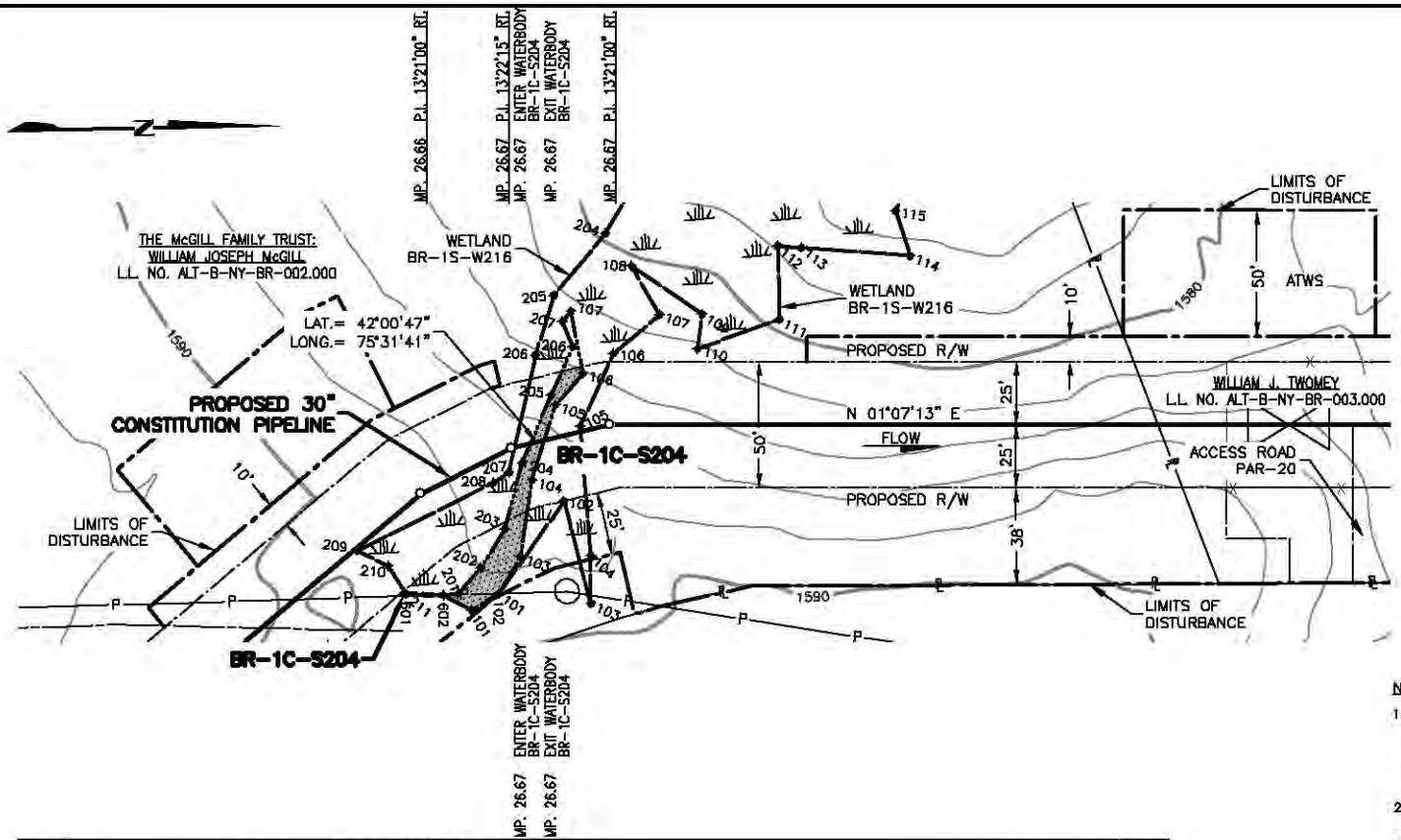
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GIE	ISSUE FOR USE	1110415		

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 CROSSINGS BR-1S-S206 AND
BR-1S-S206A @ M.P. 26.44
TOWN OF SANFORD BROOME 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/BR-1S-S206-1-0	SHEET 53 OF 214
WO: 1110415			

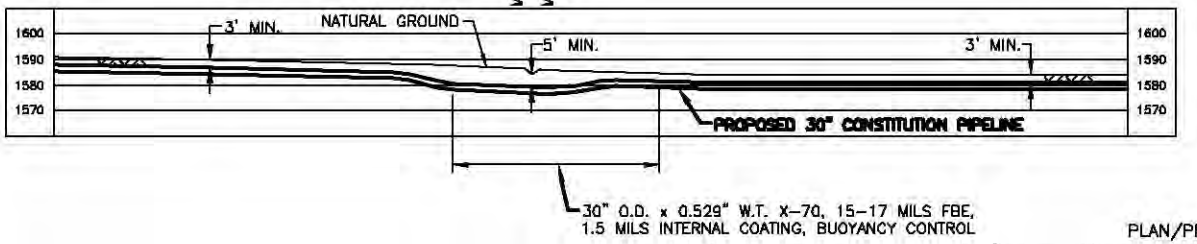


VICINITY MAP

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.
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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
BR-1C-S204	UNT to Cascade Creek	Intermittent	6	0.02	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-27	ALIGNMENT SHEET

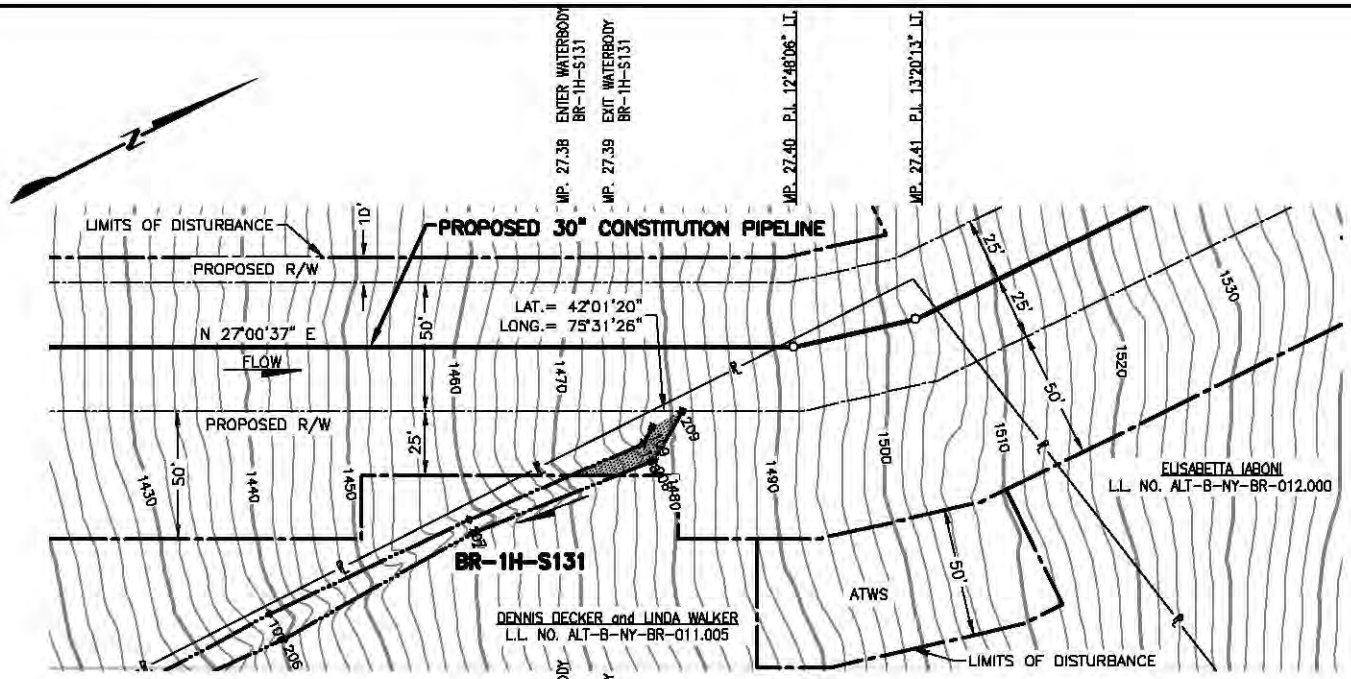
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-16-13	GE	ISSUED FOR CLIENT REVIEW	1110415		
0	10-31-13	GE	ISSUE FOR USE	1110415		

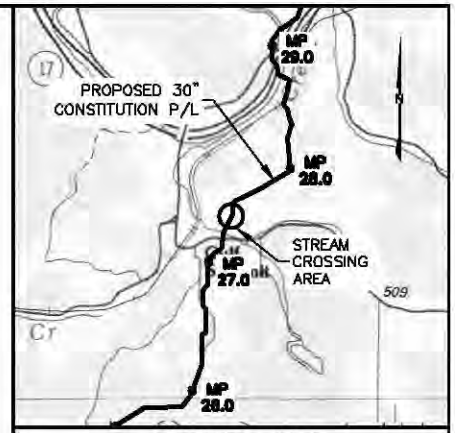
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1C-S204 @ M.P. 26.67
TOWN OF SANFORD
BROOME 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/BR-1C-S204-1-0	SHEET 54 OF 214
WO: 1110415			



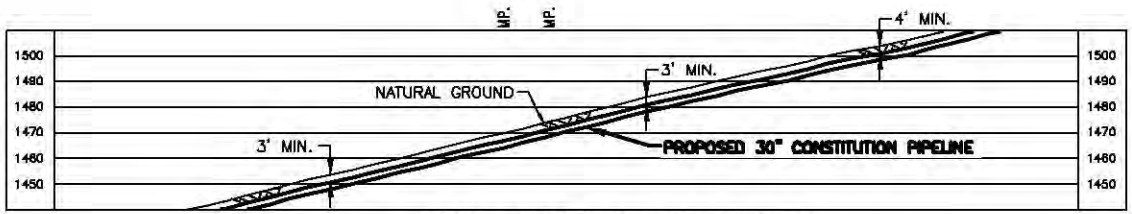


VICINITY MAP

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

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.
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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
BR-IH-S131	UNT to Fly 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
26-26-70/0001-28	ALIGNMENT SHEET

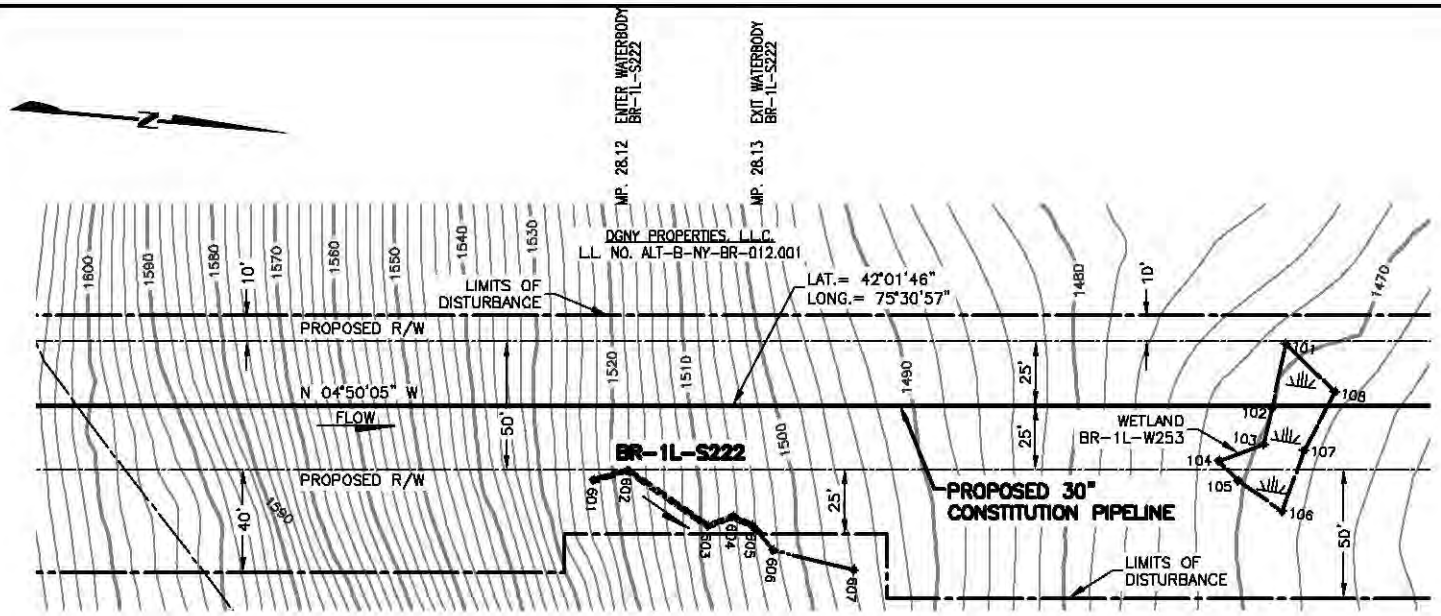
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	06-13-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-30-13	GIE	ISSUE FOR USE	1110415		
1	09-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-18-13	GIE	ISSUE FOR USE	1110415		

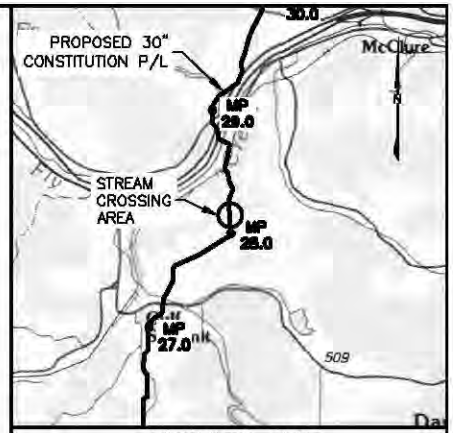
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
WATER OBSTRUCTION & ENCROACHMENT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-IH-S131 @ M.P.27.38
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 04-02-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-IH-S131-1-2	SHEET 55 OF 214
WO: 1110415			



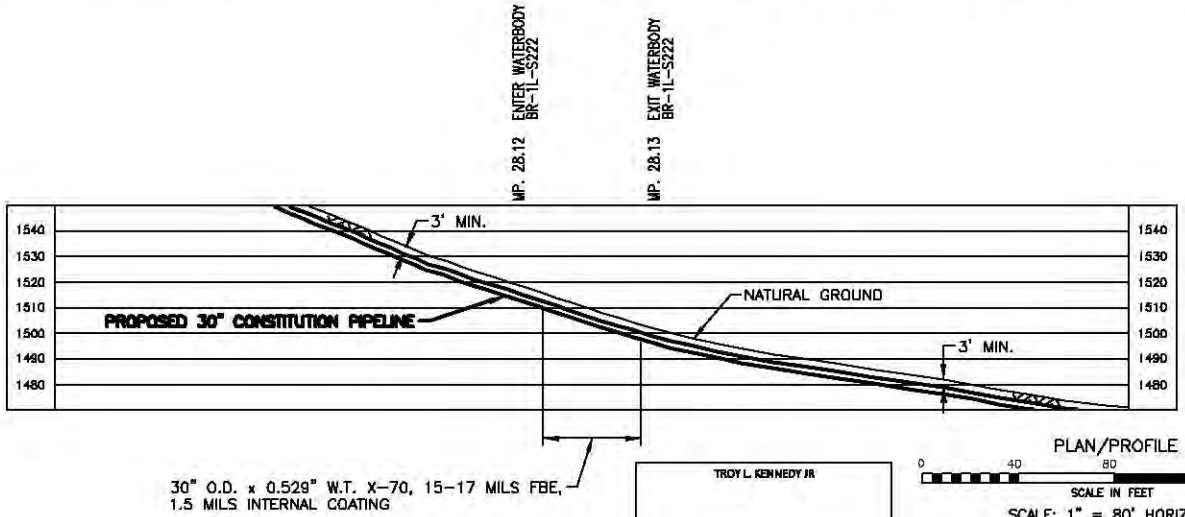


VICINITY MAP

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
BR-1L-S222	UNT to Fly 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
26-26-70/0001-29	ALIGNMENT SHEET

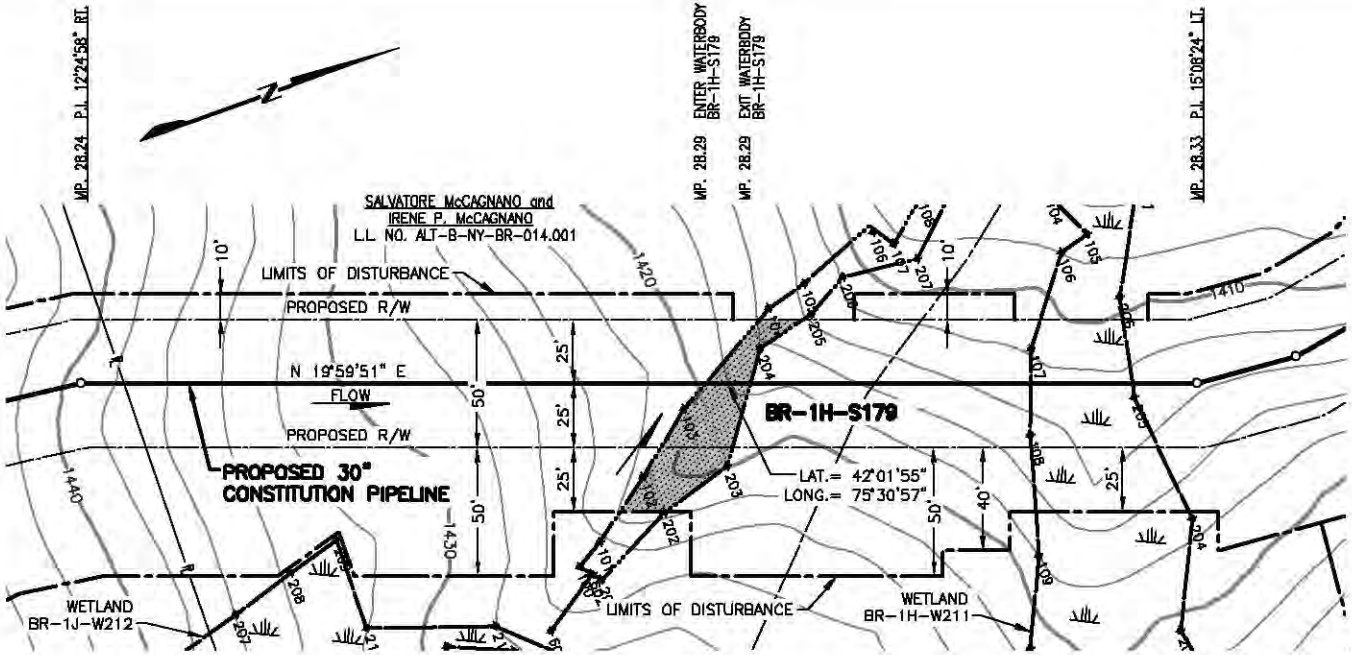
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-16-13	GE	ISSUED FOR CLIENT REVIEW	1110415		
0	11-01-13	GE	ISSUE FOR USE	1110415		

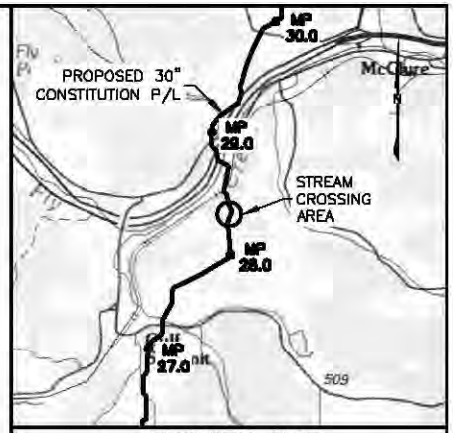
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1L-S222 @ M.P. 28.12
TOWN OF SANFORD
BROOME 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/BR-1L-S222-1-0	SHEET 56 OF 214
WO: 1110415			



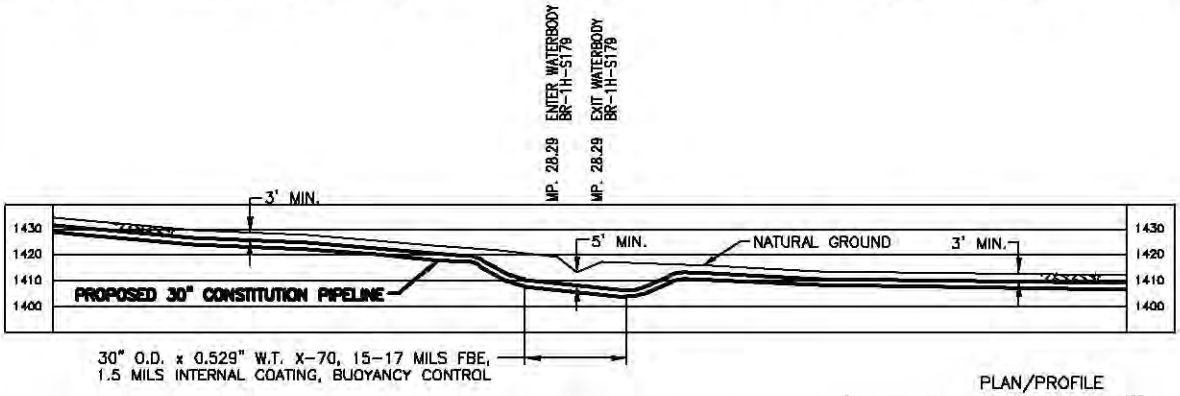


VICINITY MAP

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.

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-1H-S179	UNT to Fly Creek	Perennial	18	0.04	B(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-29	ALIGNMENT SHEET

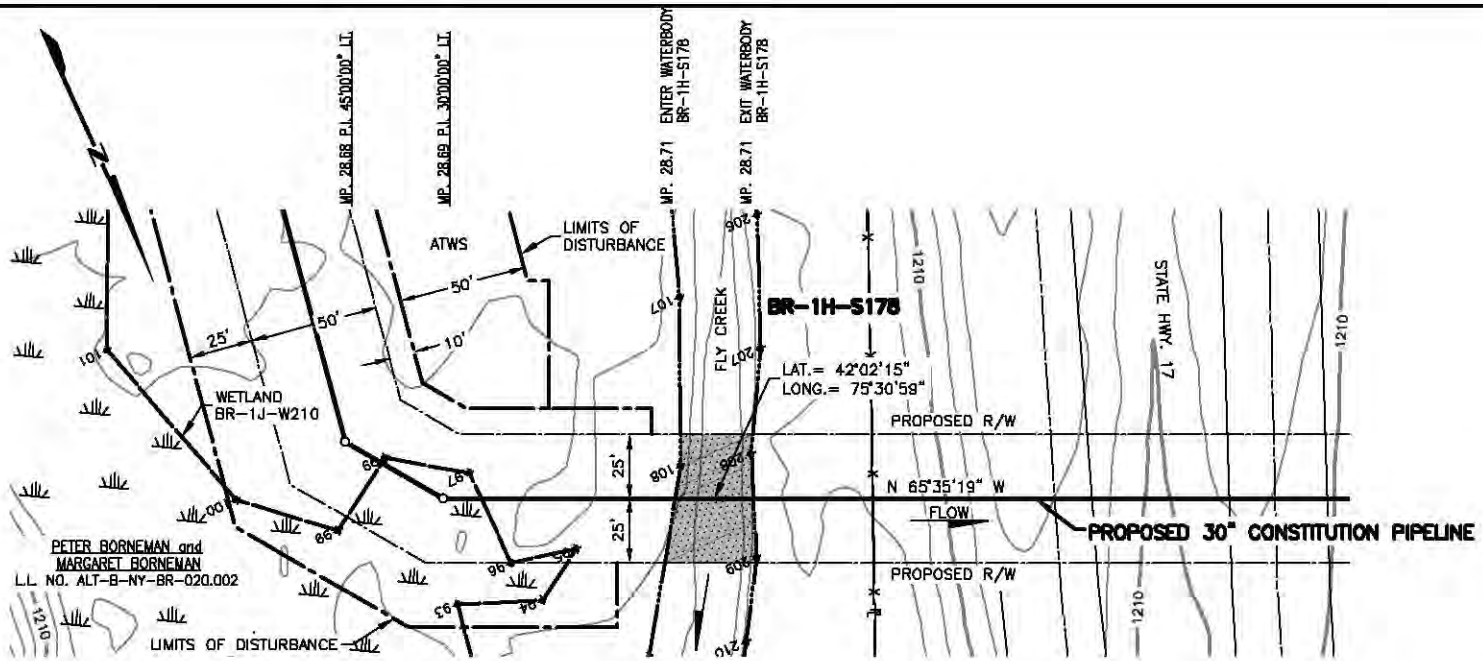
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-16-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-15-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
0	08-20-13	GIE	REVISED - ISSUE FOR CLIENT REVIEW	1110415		
1	09-30-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	ISSUE FOR USE	1110415		

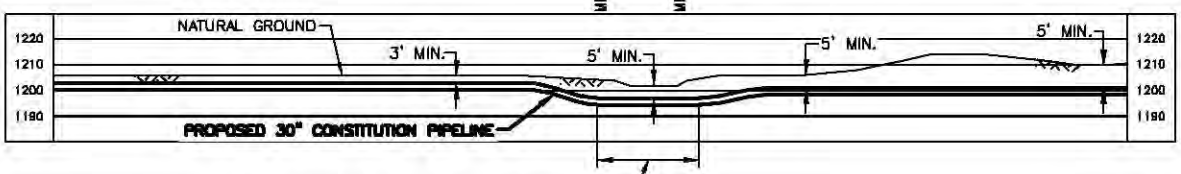
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1H-S179 @ M.P. 28.29
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-10-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-S179-1-2	SHEET 57 OF 214
WO: 1110415			





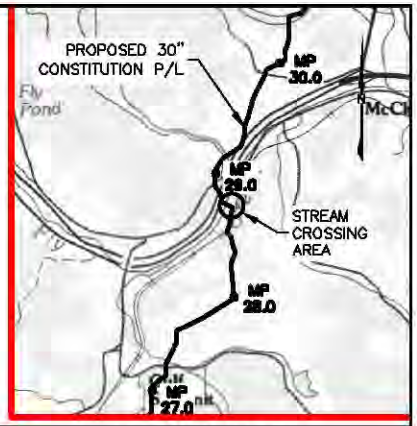
30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

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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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-1H-S178	Fly Creek	Perennial	31	0.04	B(T)	Y	(T)	DRY

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-27	ALIGNMENT SHEET

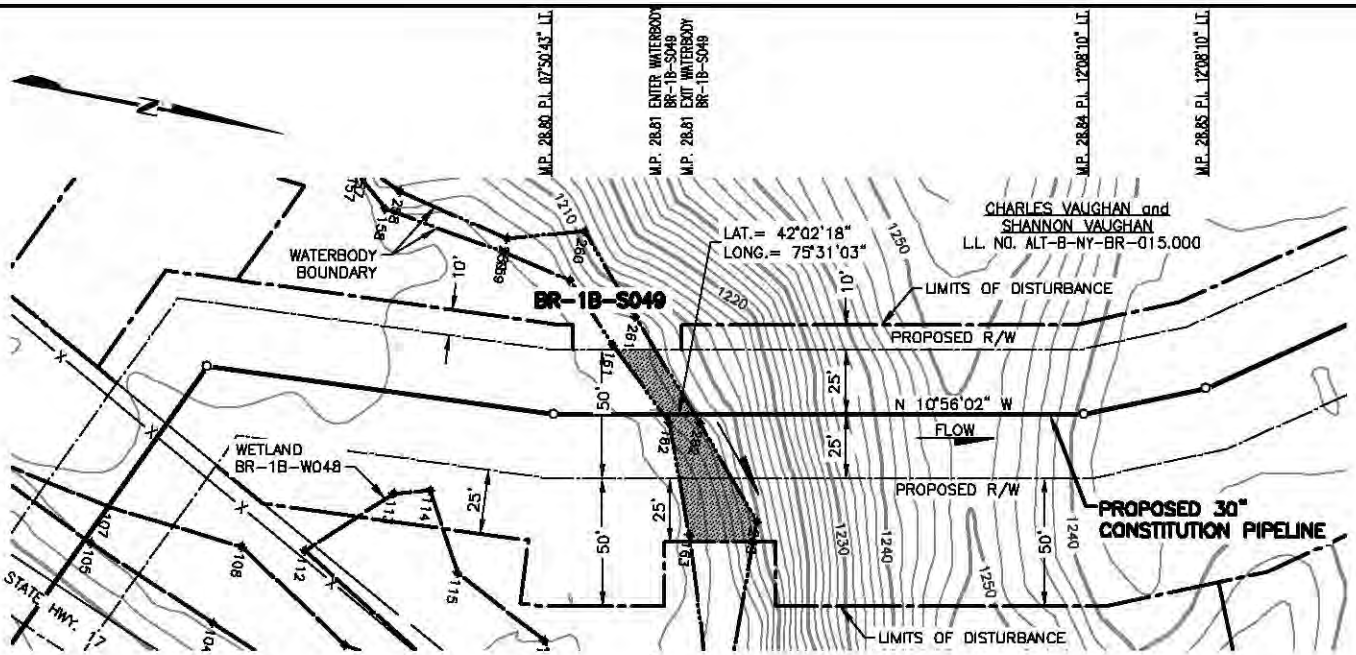
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	08-21-13	GIE	ISSUE FOR USE	1110415		
2	10-01-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-29-13	GIE	REVISED - ISSUE FOR USE	1110415		
5	10-31-13	GIE	ISSUE FOR USE	1110415		

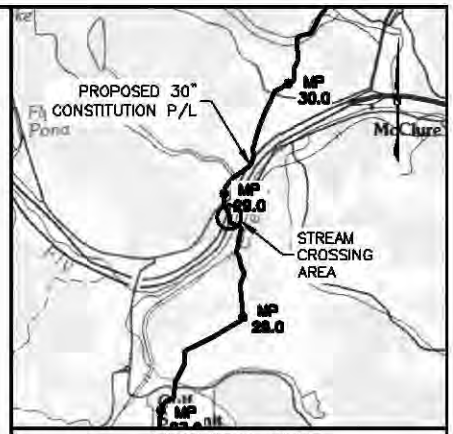
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1H-S178 @ M.P. 28.71
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 08-11-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1H-S178-1-5	SHEET 58 OF 214
WO: 1110415			



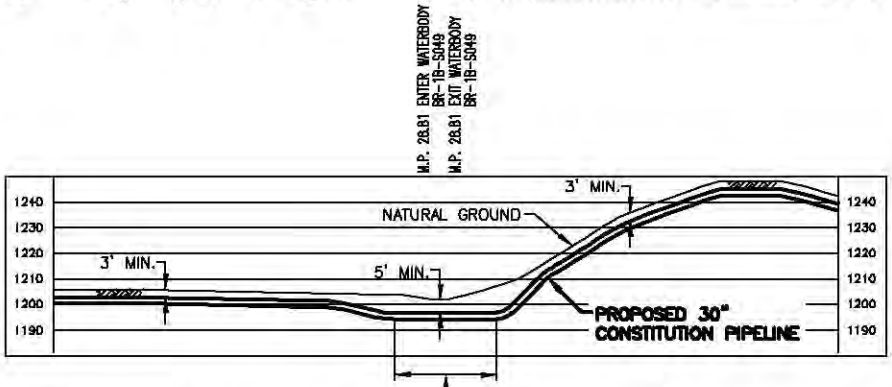


VICINITY MAP

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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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-1B-S049	UNT to Fly Creek	Intermittent	12	0.03	B(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-29	ALIGNMENT SHEET

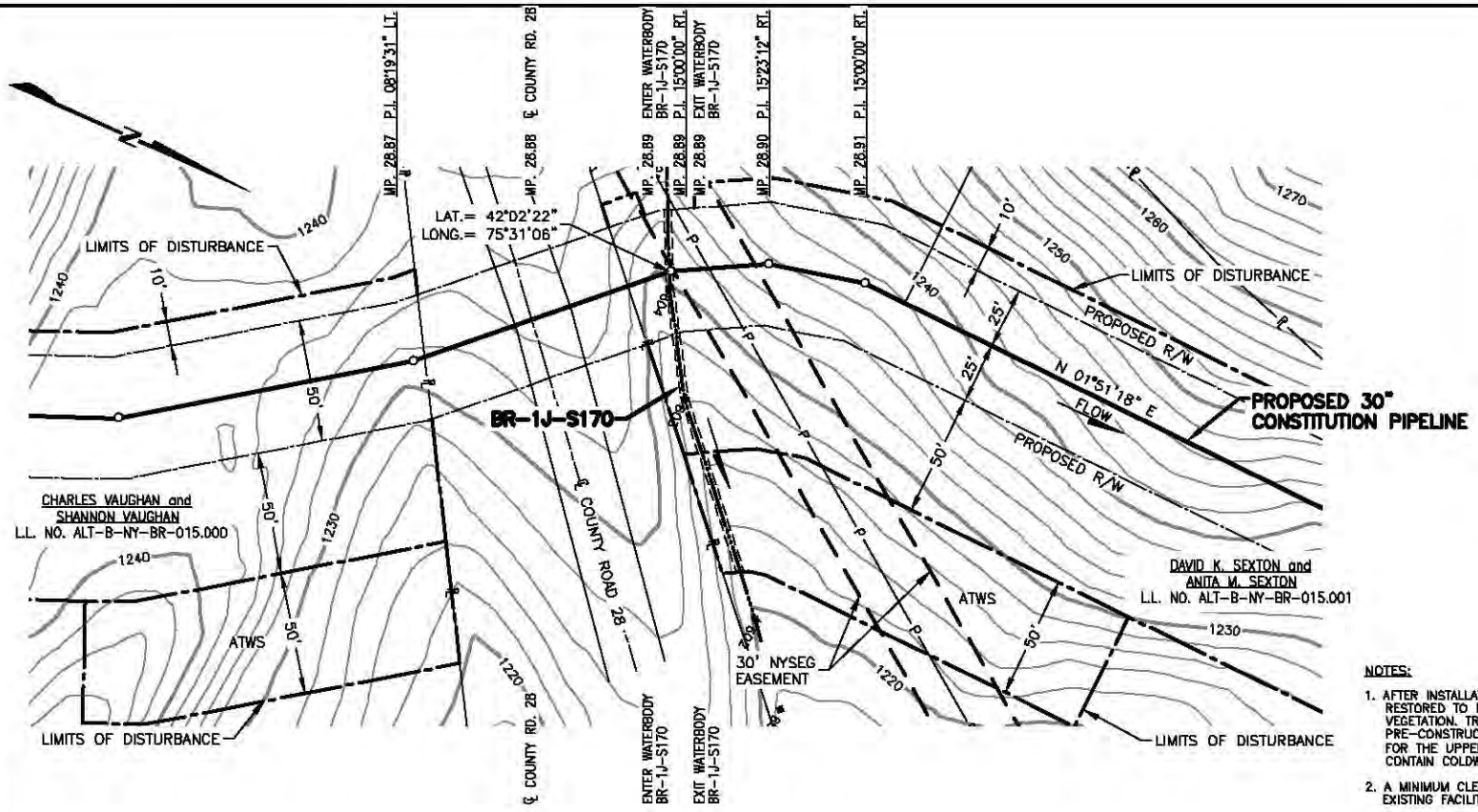
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-18-13	GE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	09-21-13	GE	ISSUE FOR USE	1110415		
1	10-01-13	GE	REVISED - ISSUE FOR USE	1110415		
2	10-20-13	GE	ISSUE FOR USE	1110415		

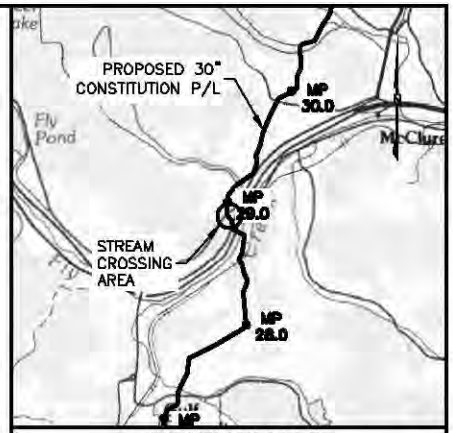
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1B-S049 @ N.P.28.81
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 04-06-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1B-S049-1-2	SHEET 59 OF 214
WO: 1110415			



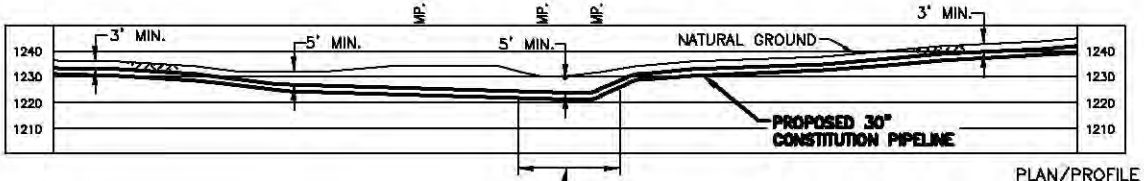


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



80'-30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING

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
BR-1J-S170	UNT to Fly Creek	Intermittent	2	0.00	D	N	N/A	Conventional Bore

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

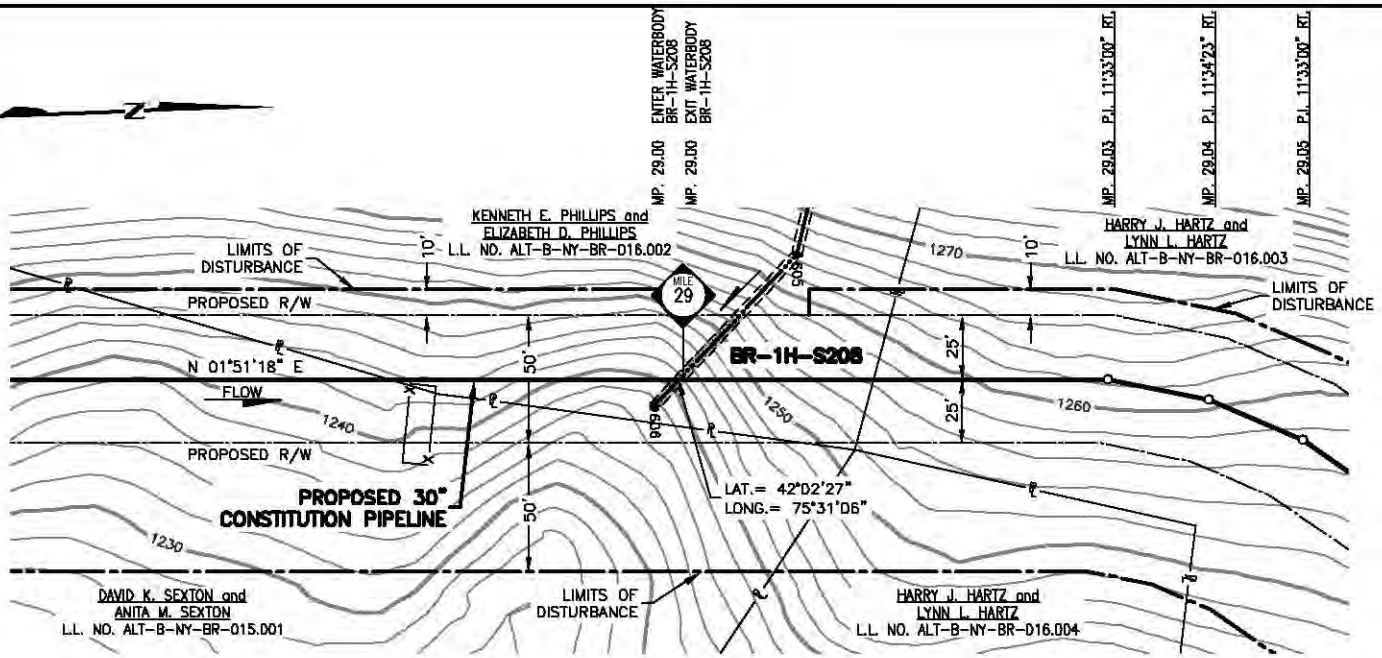
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-08-13	GIE	REVISED, ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-01-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUE FOR USE	1110415		

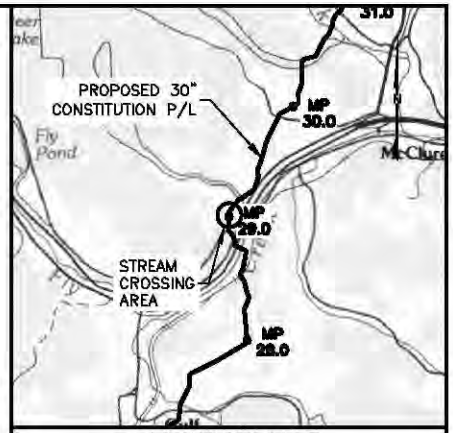
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1J-S170 @ M.P. 28.89
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1J-S170-1-3	SHEET 60 OF 214
WO: 1110415			



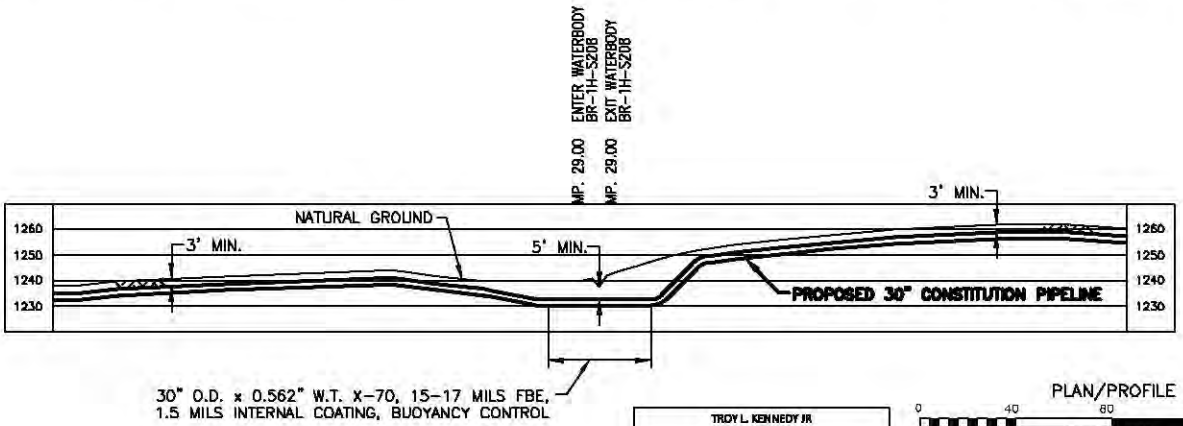


VICINITY MAP

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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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-1H-S208	UNT to Fly Creek	Ephemeral	5	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

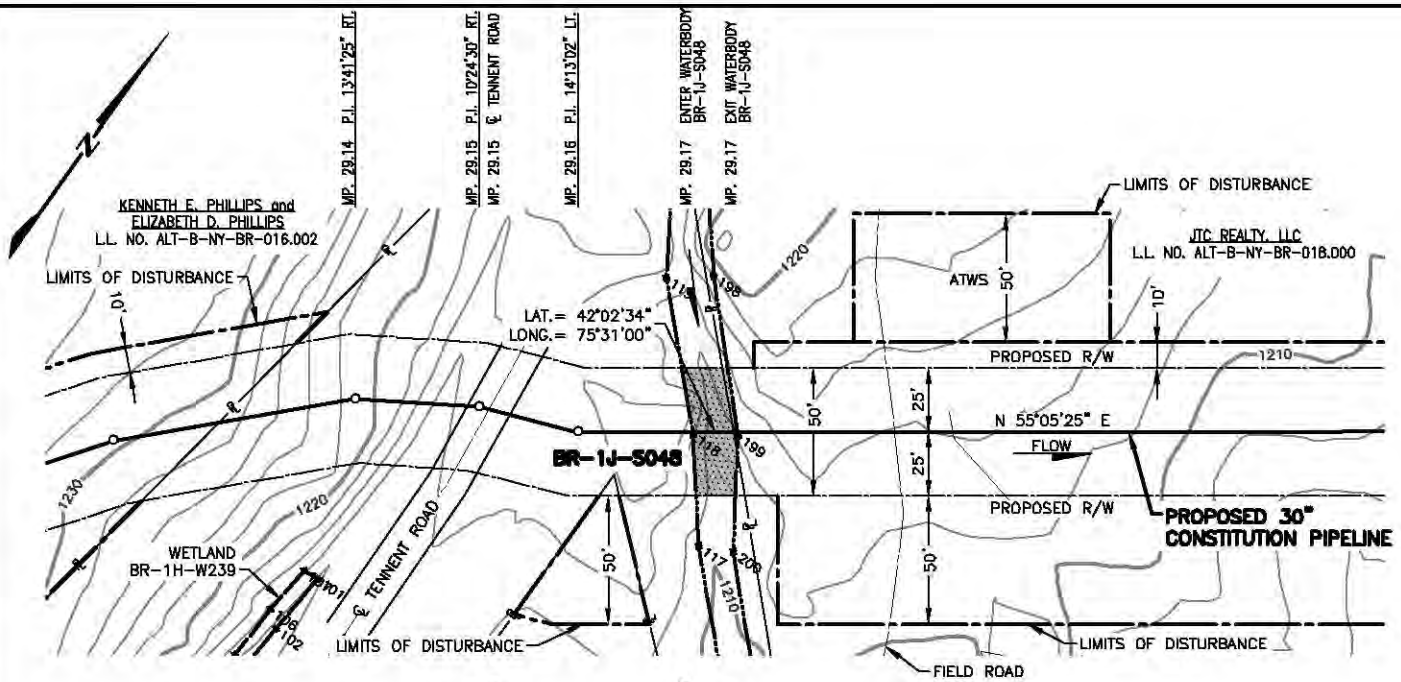
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-17-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	11-01-13	GIE	ISSUE FOR USE	1110415		

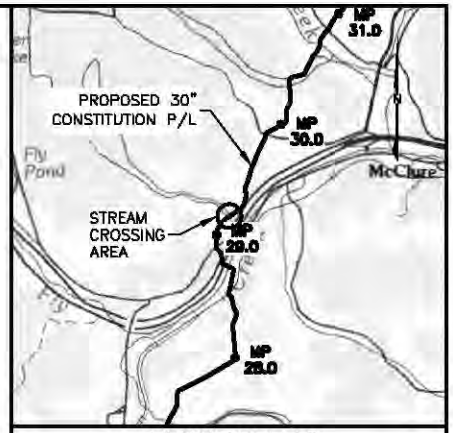
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1H-S208 @ M.P. 29.00
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-1H-S208-1-0	SHEET 61 OF 214
WO: 1110415			



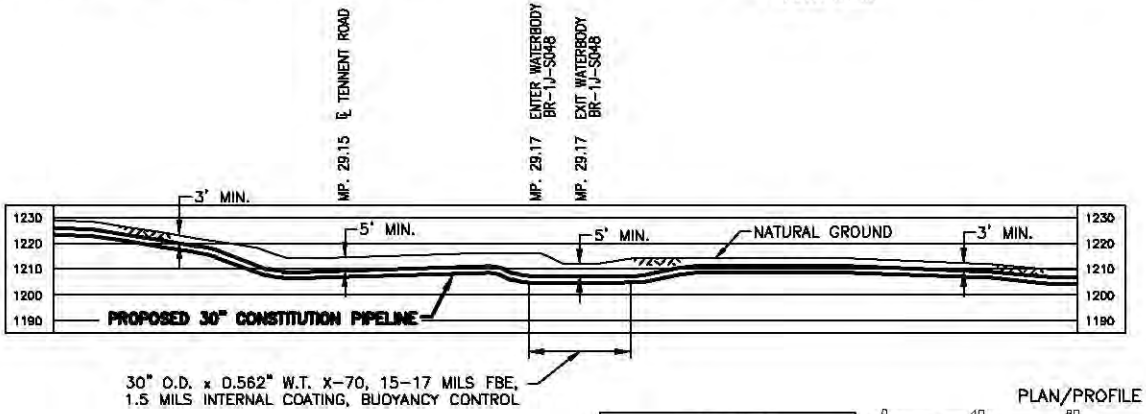


VICINITY MAP

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
BR-1J-S048	UNT to Fly Creek	Perennial	18	0.02	B (T)	Y	T	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

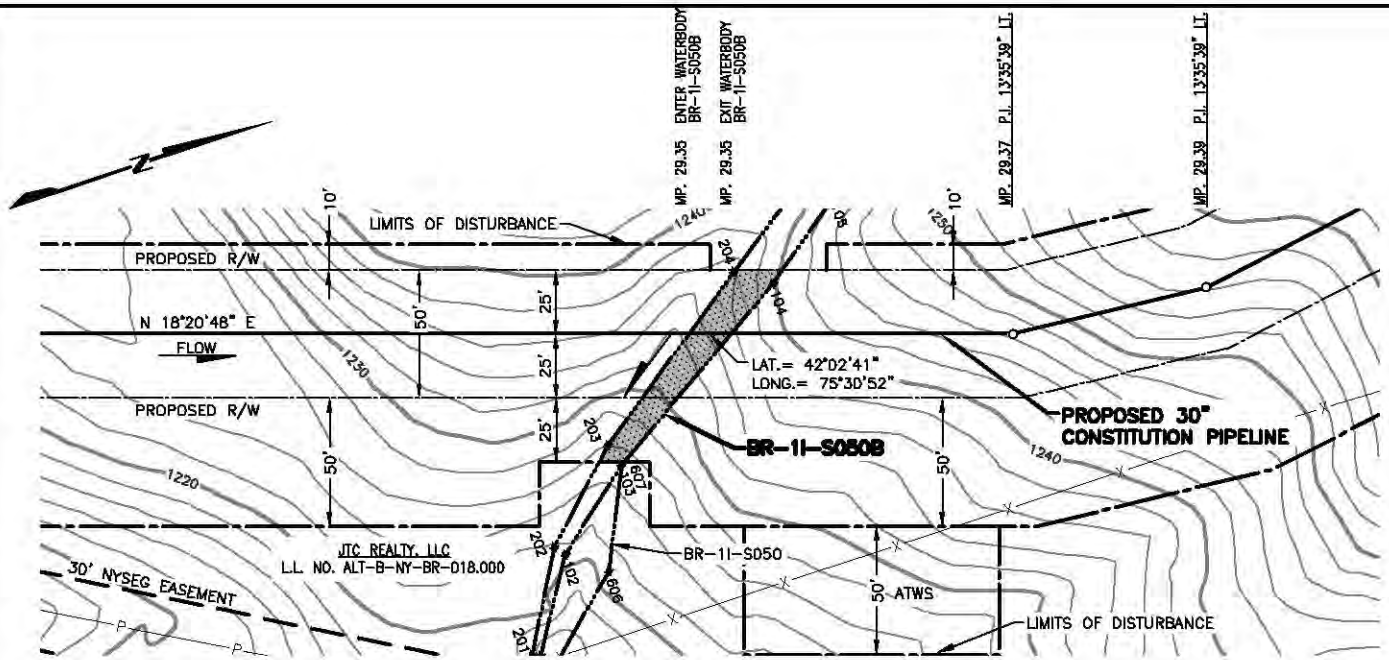
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
C	08-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-19-13	GIE	ISSUE FOR USE	1110415		
1	10-02-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GIE	ISSUE FOR USE	1110415		

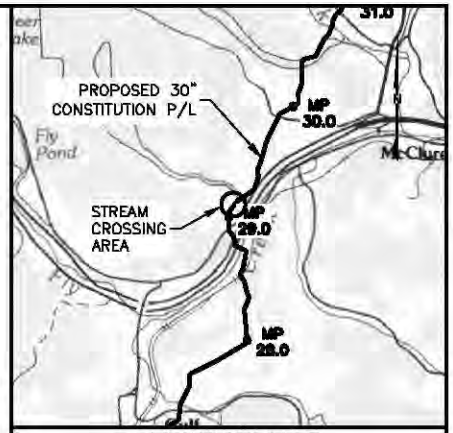
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1J-S048 @ M.P. 29.17
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-18-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1J-S048-1-2	SHEET 62 OF 214
WO: 1110415			



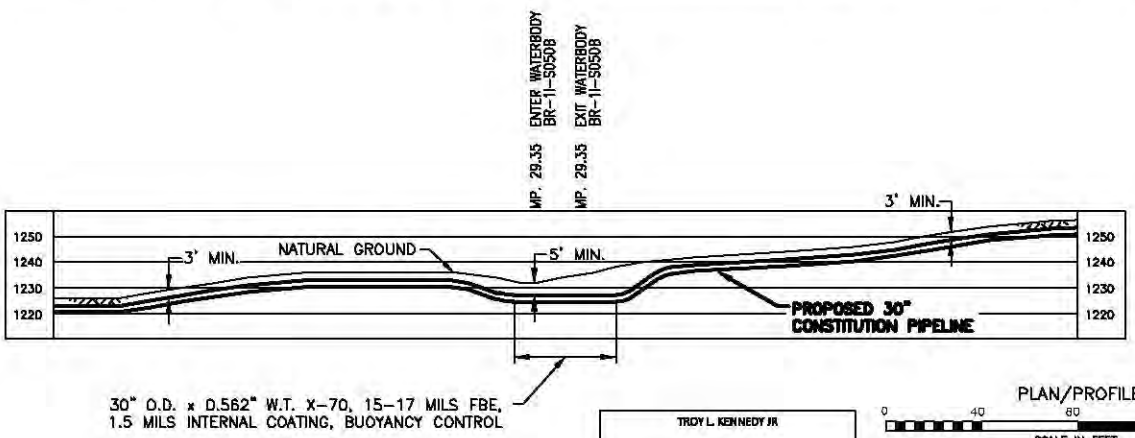


VICINITY MAP

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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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-S050B	UNT to Fly Creek	Ephemeral	16	0.03	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

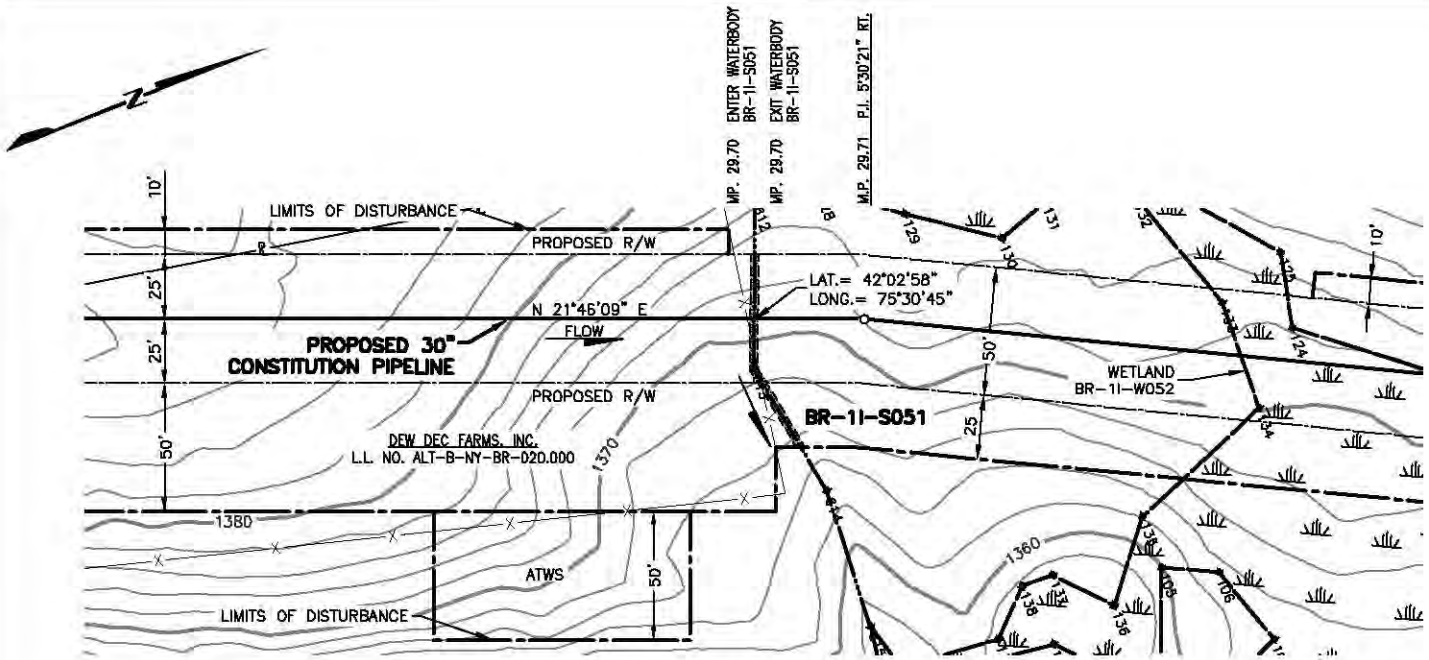
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
D	08-20-13	GIE	REVISED - ISSUE FOR USE	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-02-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
2	10-29-13	GIE	ISSUE FOR USE	1110415		

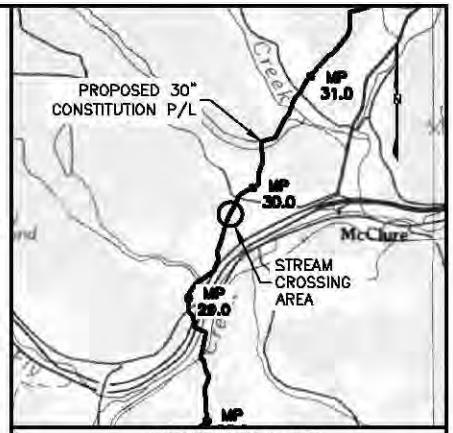
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

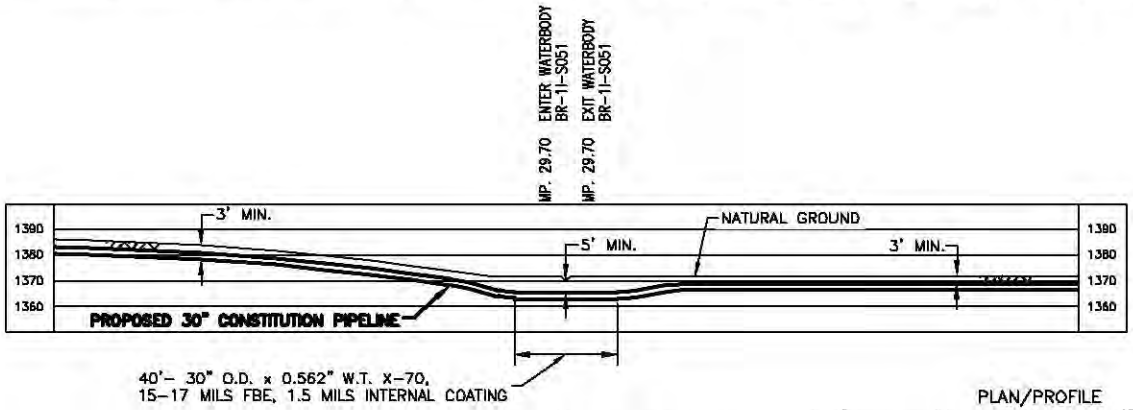
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S050B @ M.P. 29.35
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-18-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S050B-1-2	SHEET 63 OF 214
WO: 1110415			







PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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

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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
BR-1I-S051	UNT to Fly Creek	Intermittent	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-30	ALIGNMENT SHEET

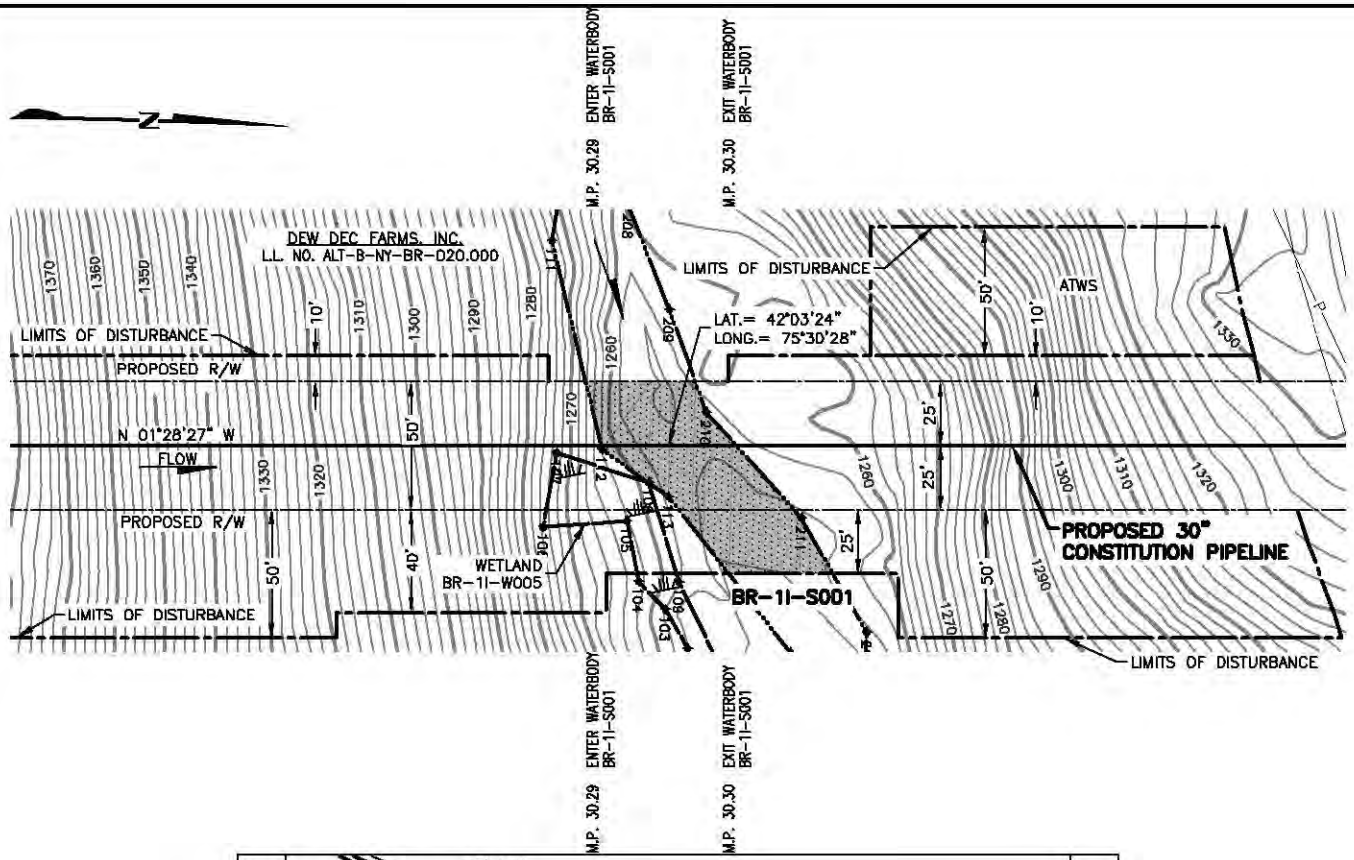
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-15-13	GIE	REVISED – ISSUED FOR CLIENT REVIEW	1110415		
C	08-20-13	GIE	REVISED – ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUED FOR USE	1110415		
1	10-02-13	GIE	REVISED – ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUE FOR USE	1110415		

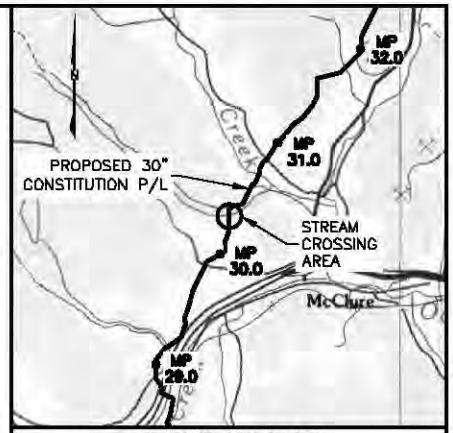
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S051 @ M.P. 29.70
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-18-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-D9-B5/BR-1I-S051-1-2	SHEET 64 OF 214
WO: 1110415			



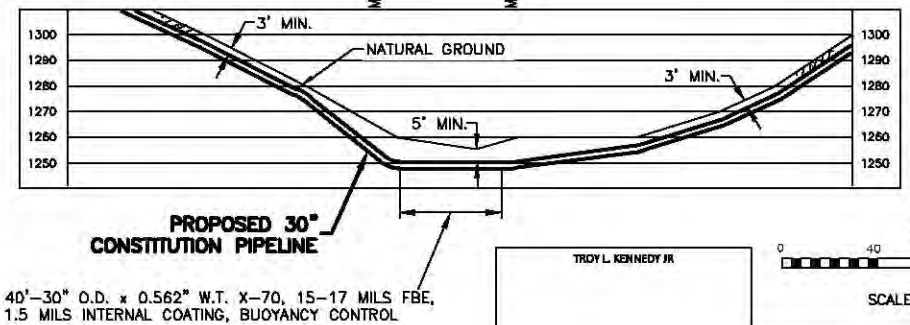


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



40'-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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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-S001	UNT to Marsh Creek	Perennial	53	0.08	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
26-26-70/0001-31	ALIGNMENT SHEET

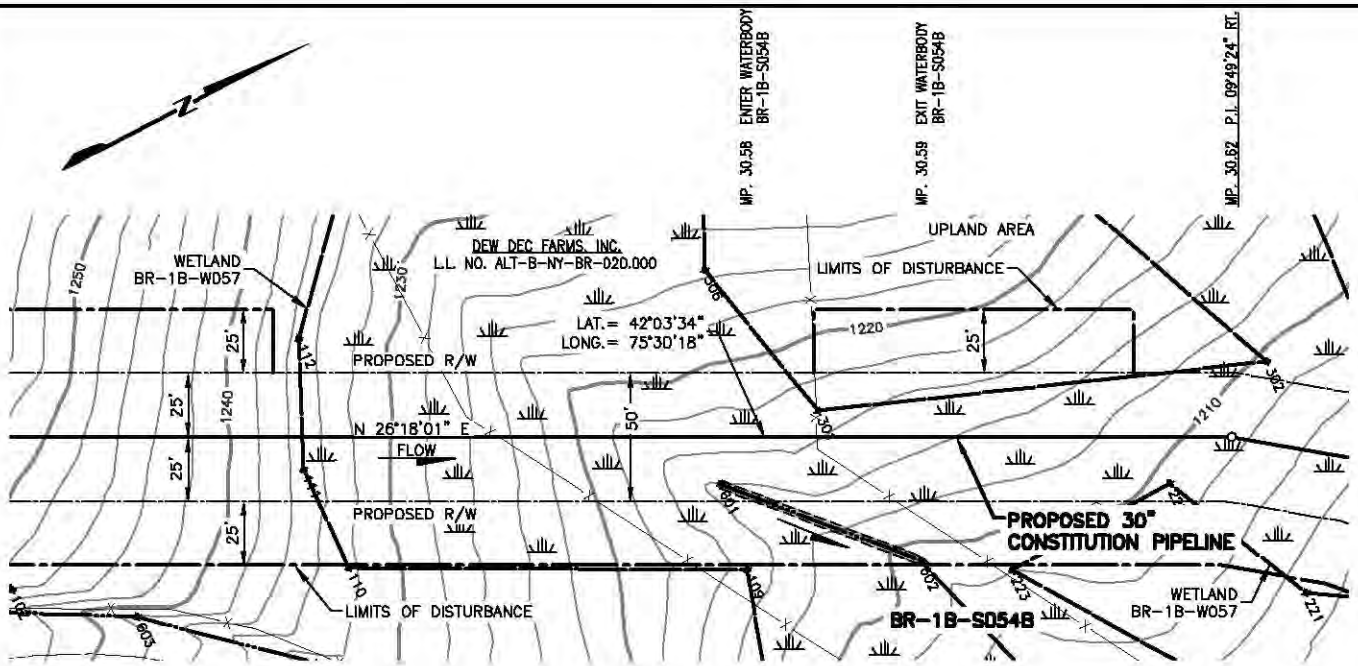
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	05-22-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-18-13	GIE	ISSUED FOR USE	1110415		
1	10-02-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUE FOR USE	1110415		

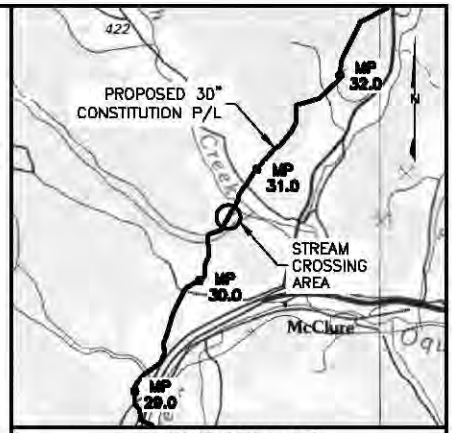
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S001 @ M.P.30.29
TOWN OF SANFORD
BROOME 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-D9-B5/BR-1I-S001-1-2	SHEET 65 OF 214
WO: 1110415			



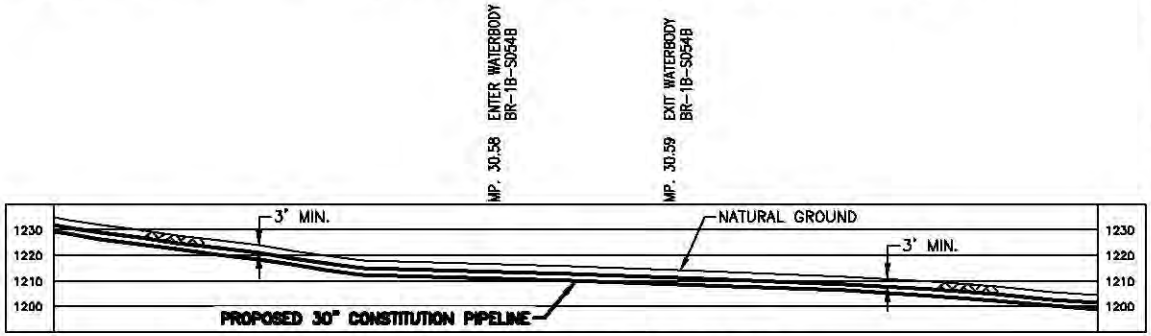


VICINITY MAP

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
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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
BR-1B-S054B	UNT to Marsh 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
26-26-70/0001-31	ALIGNMENT SHEET

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
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D	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-03-13	GIE	REVISED - ISSUE FOR USE	1110415		
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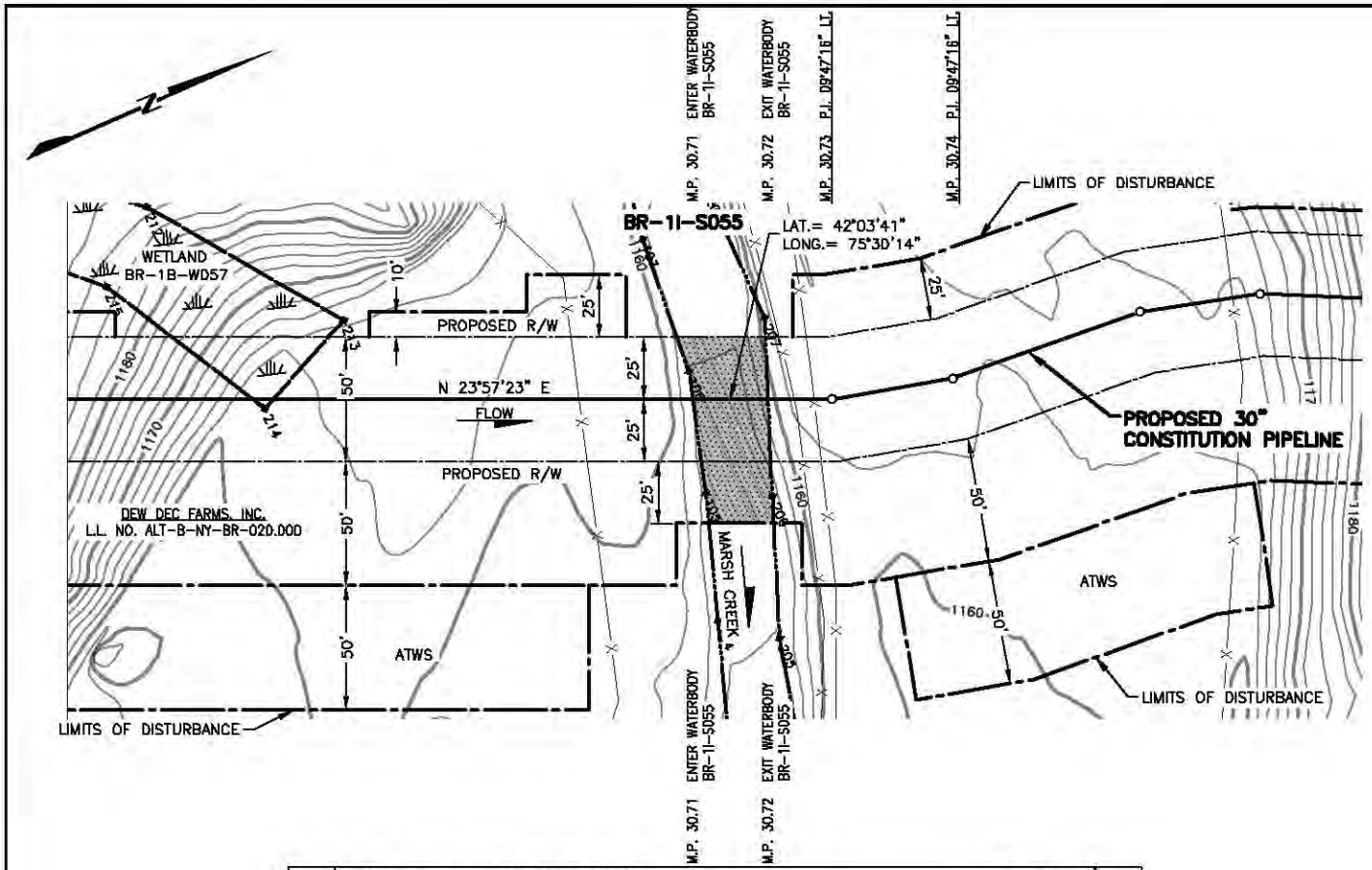
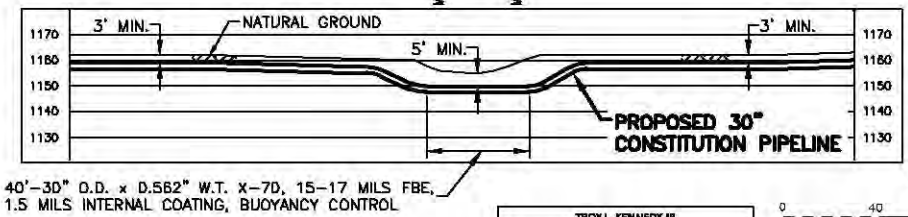
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

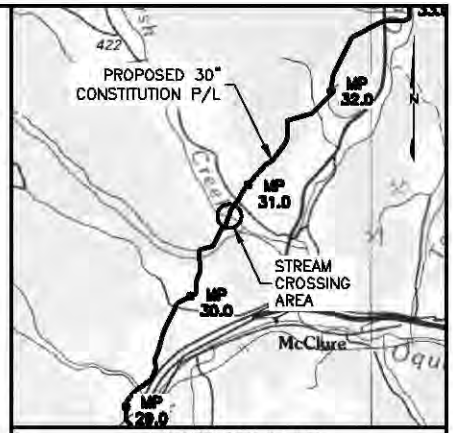
APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1B-S054B @ M.P. 30.58
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-18-2013	ISSUED FOR BID:	SCALE: 1"=80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-B5/BR-1B-S054B-1-3	SHEET 66 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 Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1I-S055	Marsh Creek	Perennial	30	0.05	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
26-26-70/0001-31	ALIGNMENT SHEET

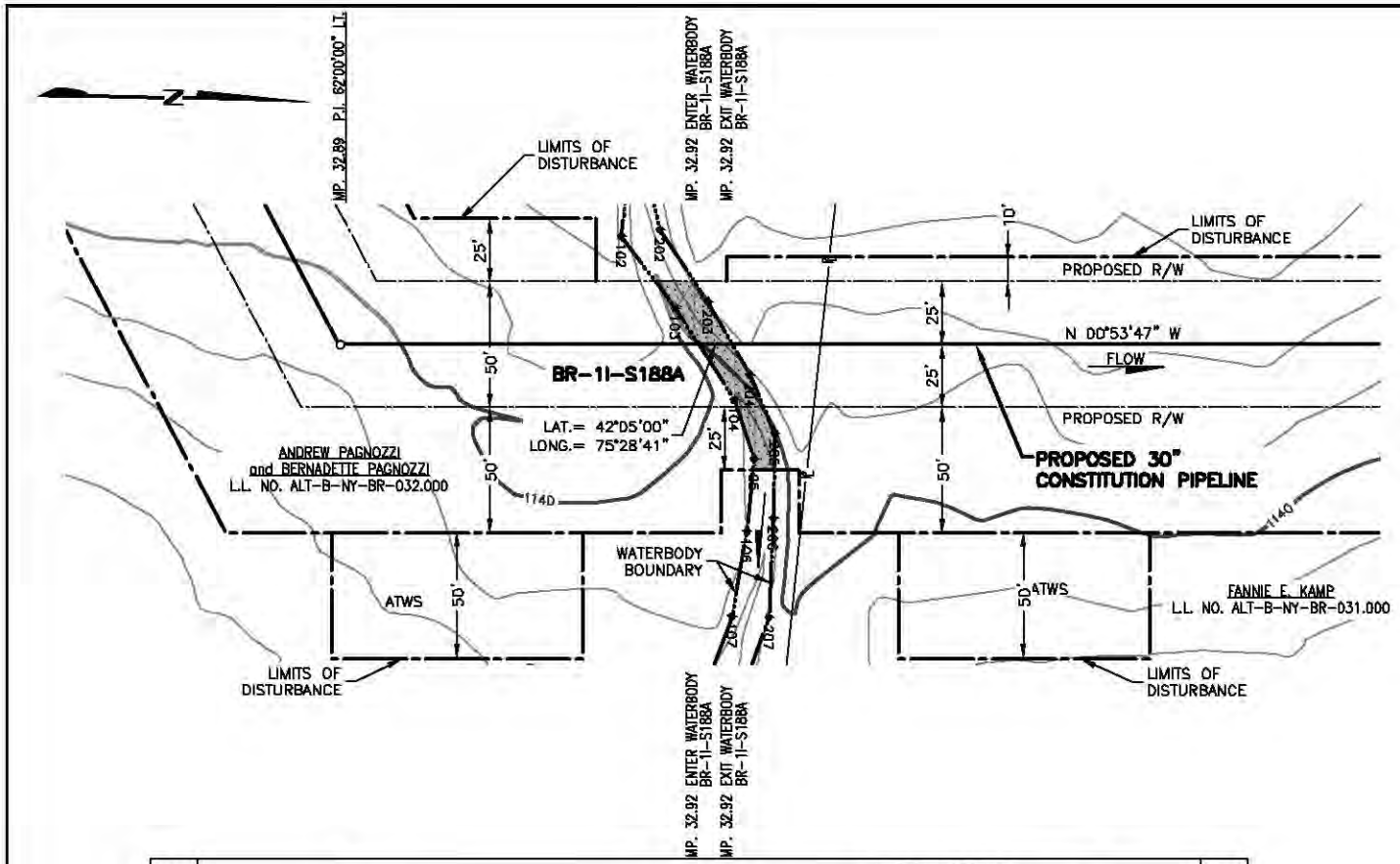
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-13-13	GIE	REVISED-ISSUED FOR REVIEW	1110415		
C	08-19-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-02-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-22-13	GIE	ISSUE FOR USE	1110415		

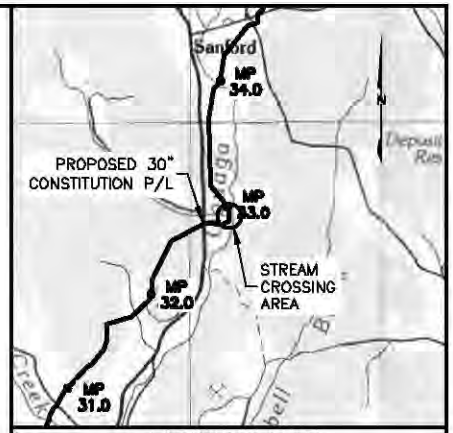
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S055 @ M.P.30.71
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-15-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-D9-B5/BR-1I-S055-1-2	SHEET 67 OF 274
WO: 1110415			



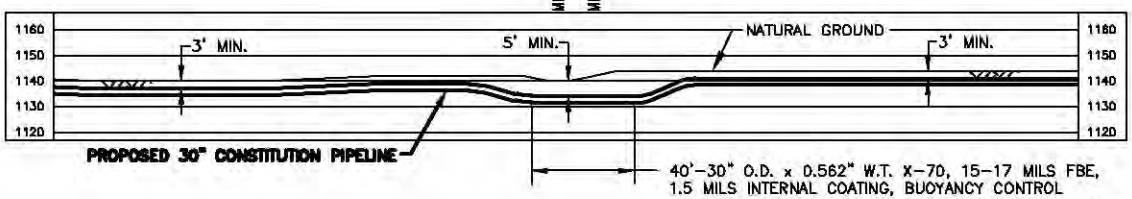


VICINITY MAP

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 Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1I-S188A	UNT to Oquaga Creek	Perennial	13	0.02	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-34	ALIGNMENT SHEET

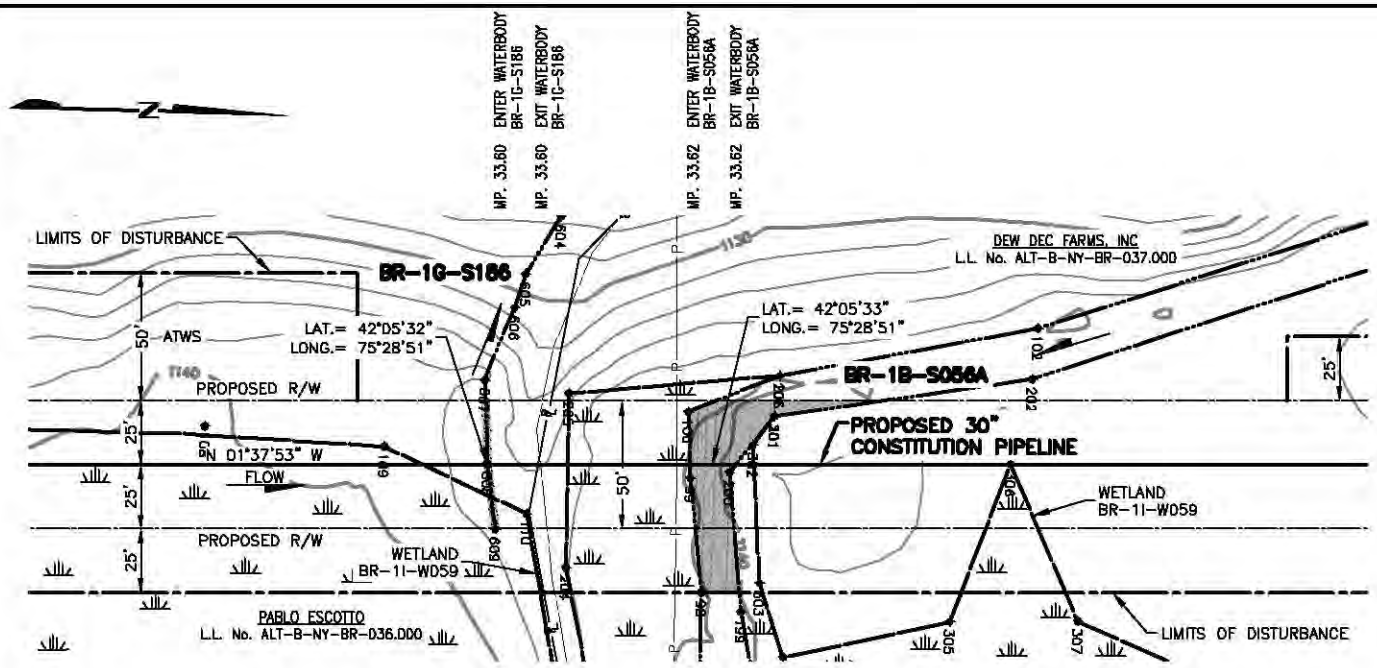
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED-ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-03-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUE FOR USE	1110415		

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 BR-1I-S188A @ M.P. 32.92
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-15-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-D9-B5/BR-1I-S188A-1-3	SHEET 68 OF 214
WO: 1110415			

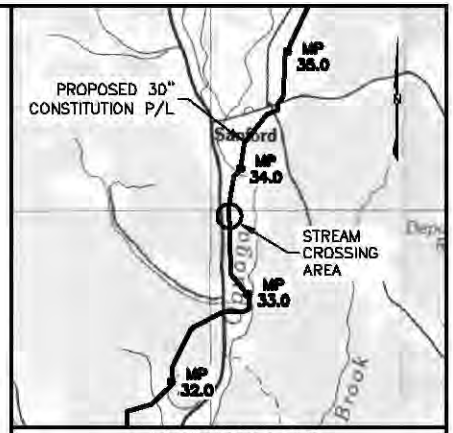


40' – 30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

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 Standard	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1B-S056A	UNT to Oquaga Creek	Perennial	18	0.03	C(TS)	Y	(TS)	Dry
BR-1G-S186	UNT to Oquaga Creek	Intermittent	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-34	ALIGNMENT SHEET

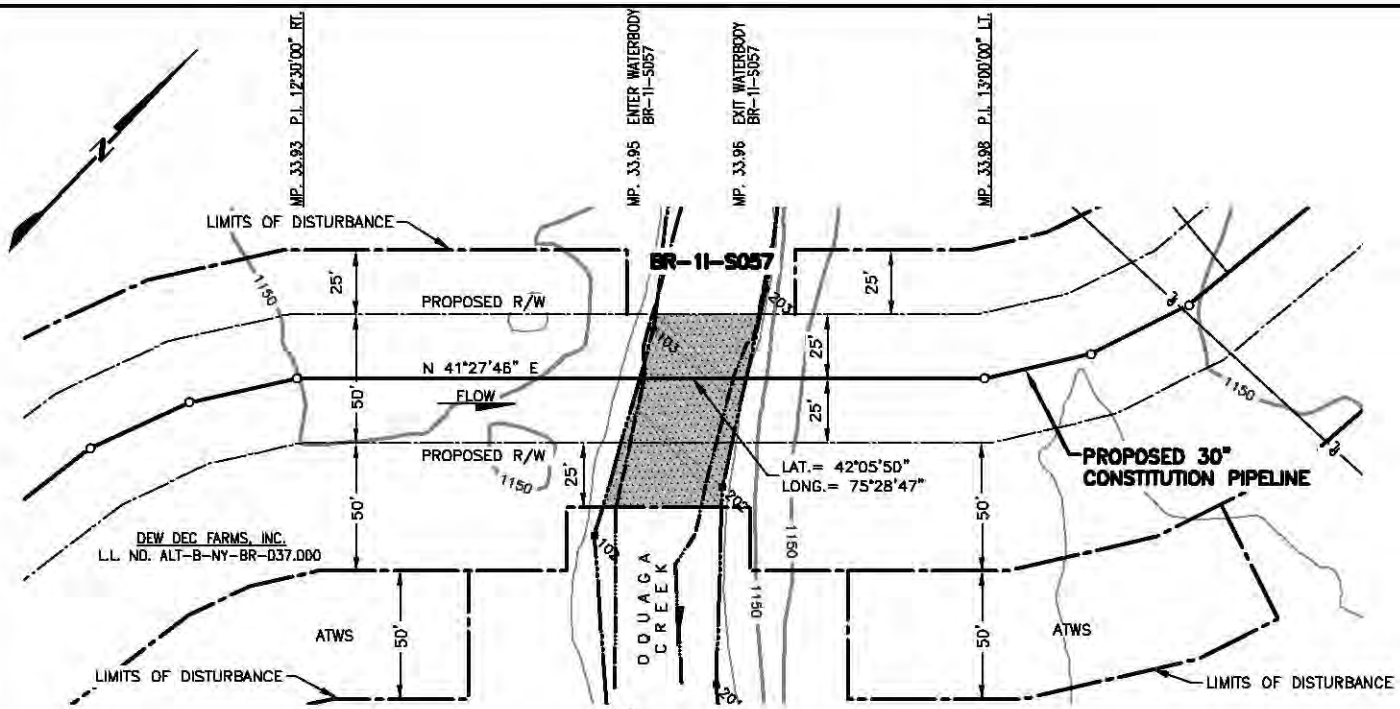
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-16-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUED FOR USE	1110415		
1	10-03-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUED FOR USE	1110415		

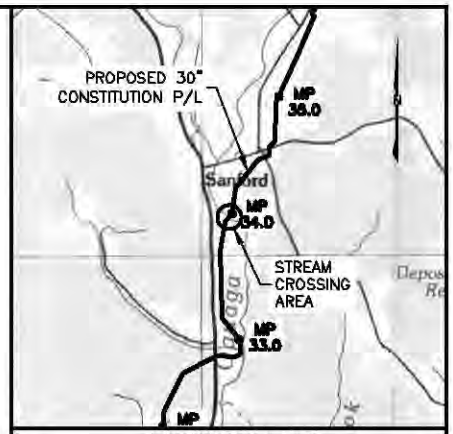
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS BR-1G-S186,1B-S056A @ M.P. 33.60
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-18-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-20-85/BR-1G-S186-1-3	SHEET 69 OF 214
WO: 1110415			



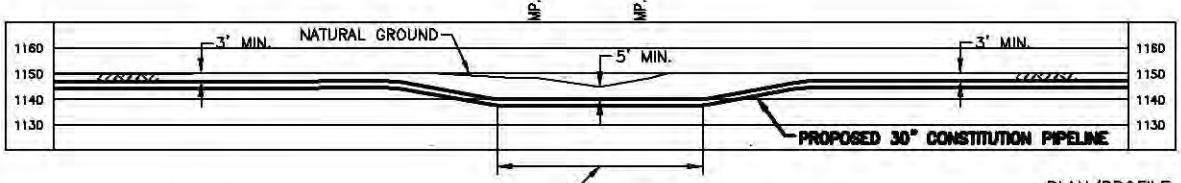


VICINITY MAP

USGS QUAD MAP: BINGHAMTON, NY

5000' 0 5000'

SCALE IN FEET



80' – 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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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-S057	Oquaga Creek	Perennial	42	0.07	C(TS)	Y	(TS)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

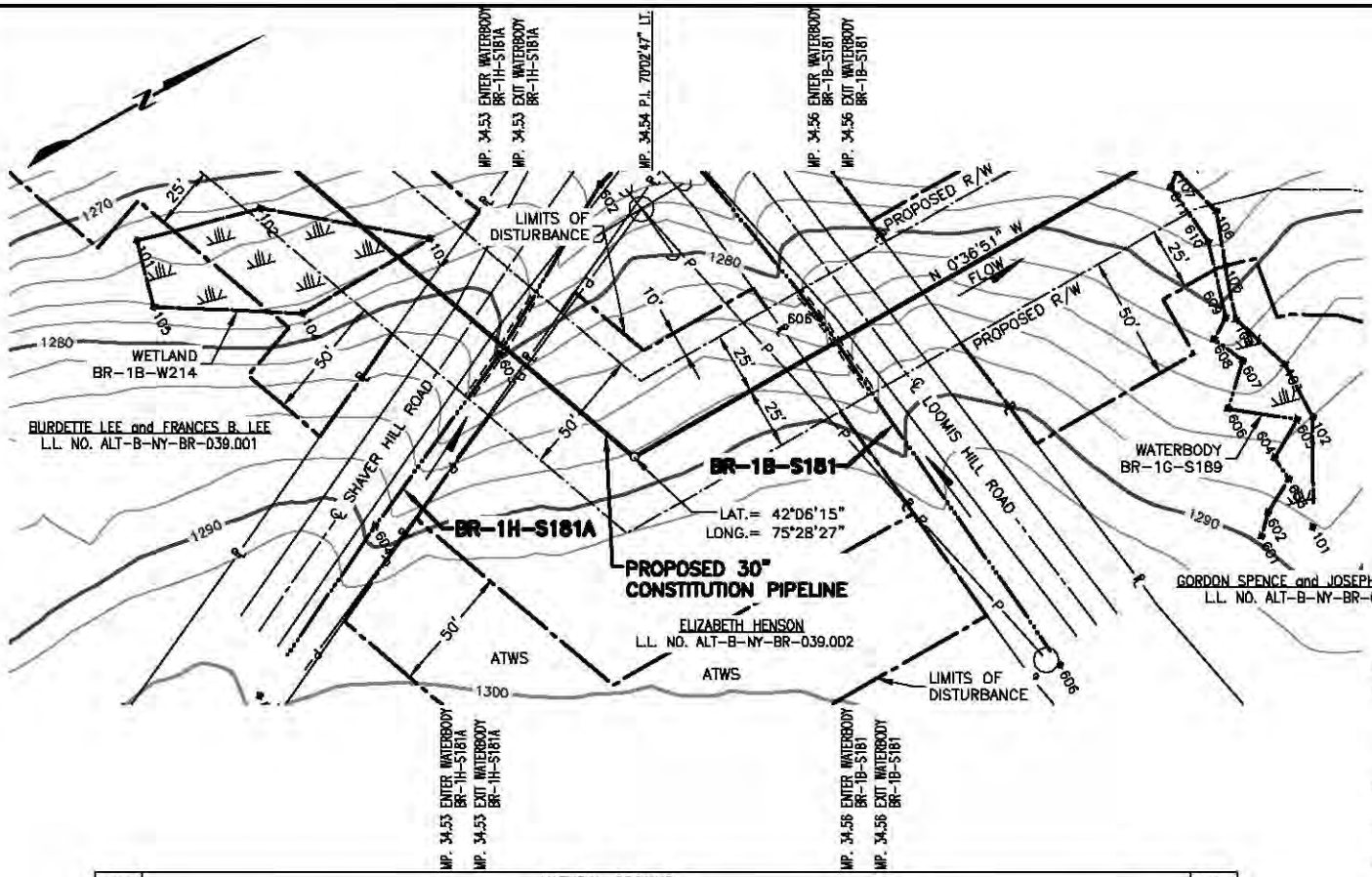
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-04-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-31-13	GIE	ISSUE FOR USE	1110415		

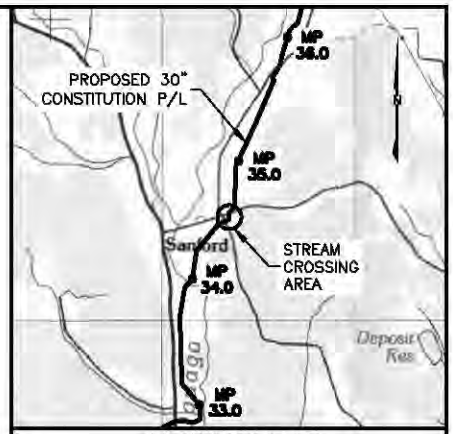
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S057 @ M.P. 33.95
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-18-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S057-1-3	SHEET 70 OF 214
WO: 1110415			



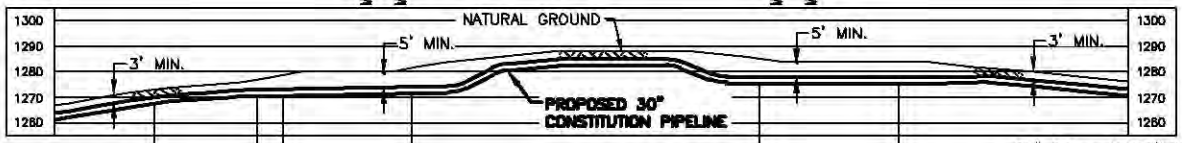


VICINITY MAP

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

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

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.
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-1B-S181	Road Ditch	Intermittent	1	0.00	N/A	N	N/A	Conventional Bore
BR-1H-S181A	Road Ditch	Ephemeral	1	0.00	N/A	N	N/A	Conventional Bore

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

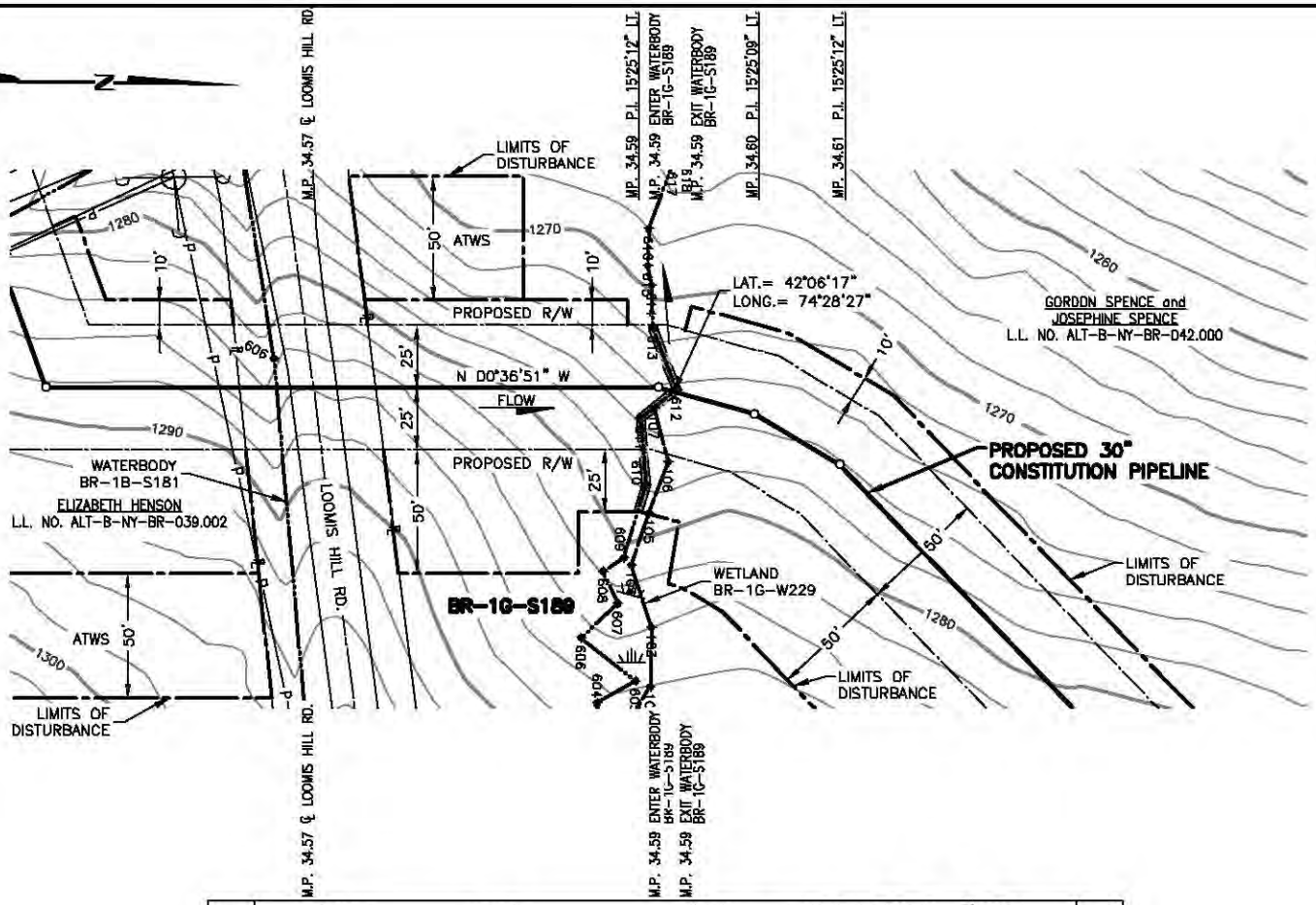
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
B	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-04-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-25-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUE FOR USE	1110415		

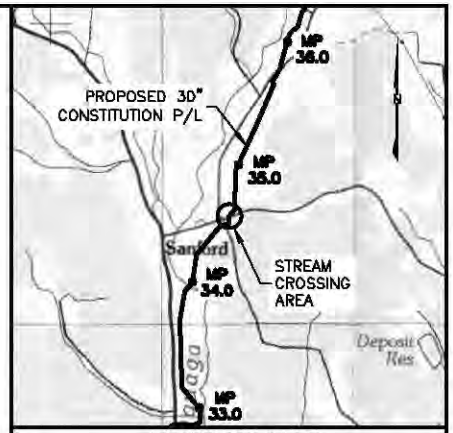
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSINGS BR-1B-S181 AND BR-1H-S181A @ M.P. 34.53
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-25-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1B-S181-1-3	SHEET 71 OF 214
WO: 1110415			



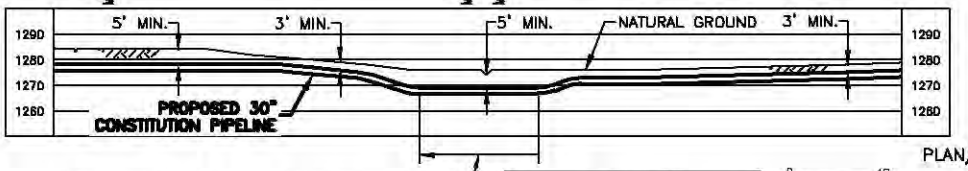


VICINITY MAP

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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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-1G-S189	UNT to Oquaga Creek	Perennial	4	0.01	C (T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

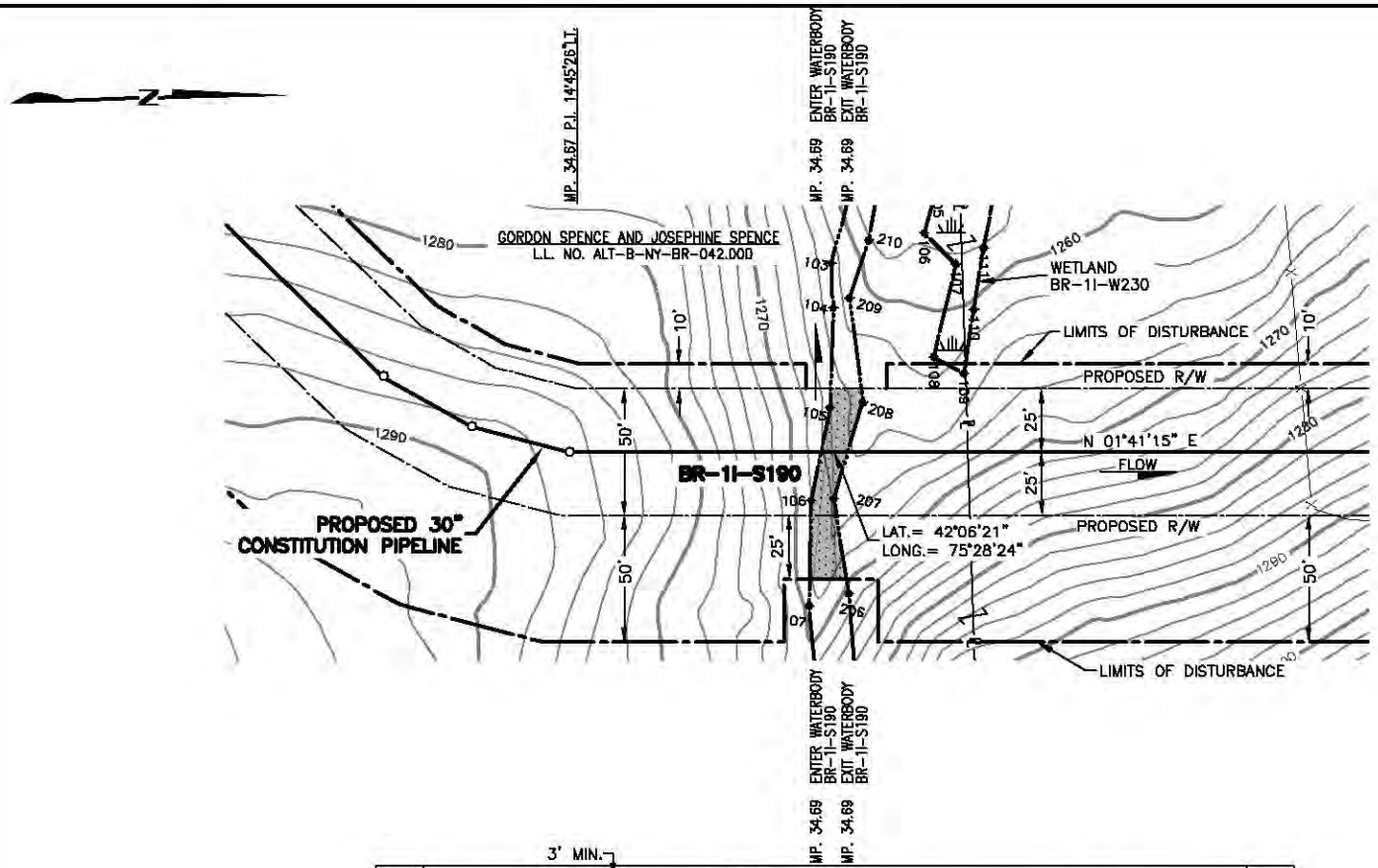
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-04-15	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-22-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

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 BR-1G-S189 @ M.P. 34.59
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-31-13	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1G-S189-1-4	SHEET 72 OF 214
WO: 1110415			

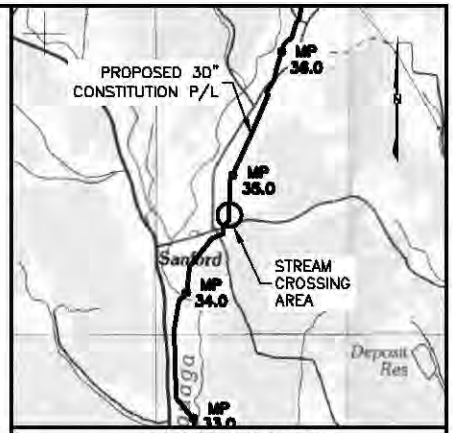


40' – 30" O.D. x 0.562" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

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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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-S190	UNT to Oquaga Creek	Perennial	11	0.02	C(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-35	ALIGNMENT SHEET

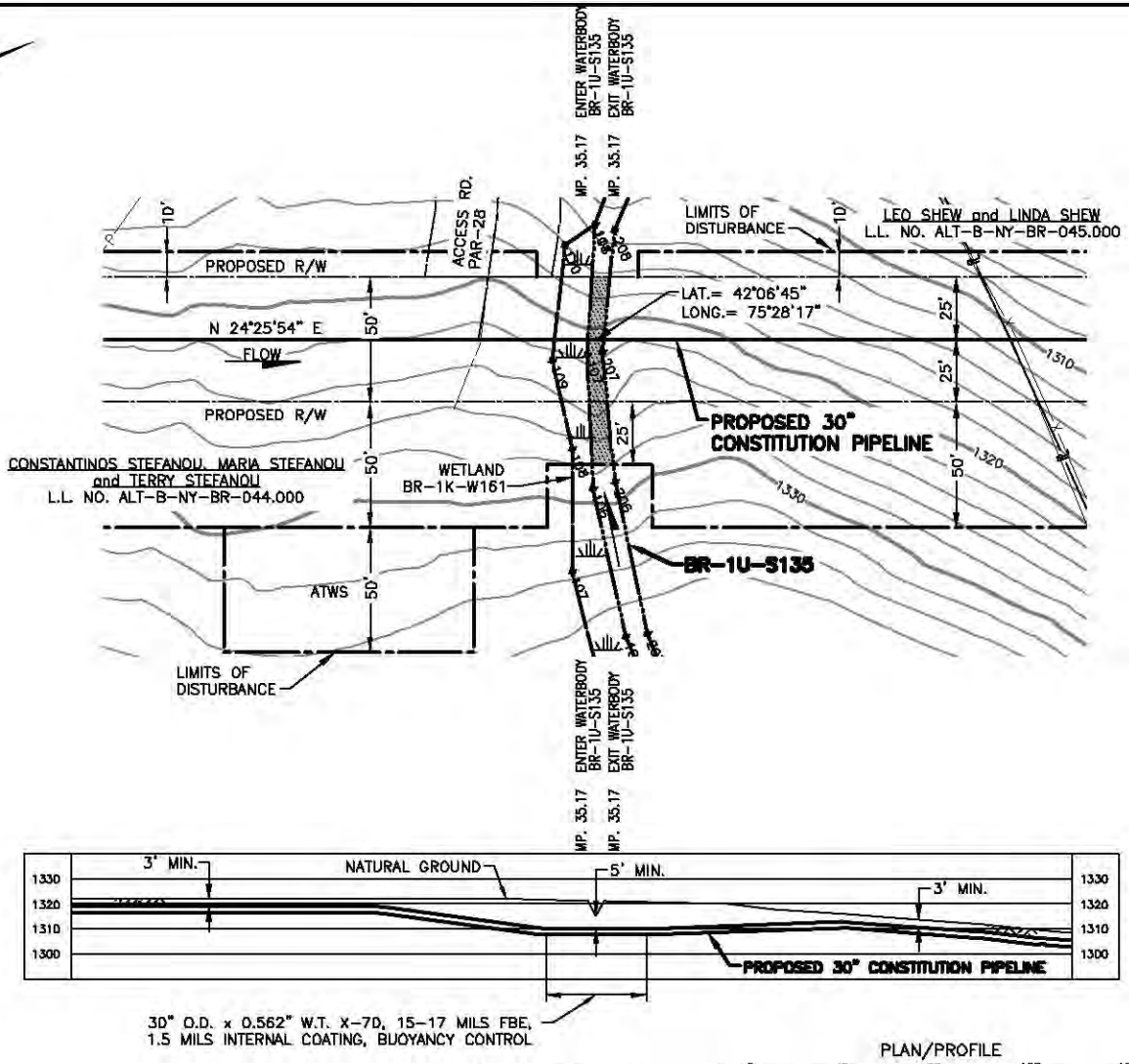
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	REVISED - ISSUE FOR USE	1110415		
4	10-31-13	GIE	ISSUE FOR USE	1110415		

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 BR-1I-S190 @ M.P. 34.69
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-23-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S190-1-4	SHEET 73 OF 214
WO: 1110415			

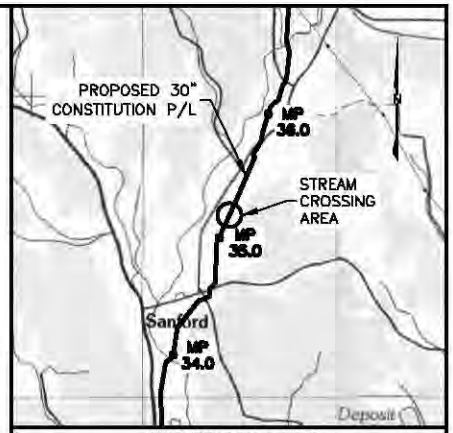


PLAN/PROFILE

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
BR-1U-S135	UNT of Oquaga Creek	Ephemeral	6	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

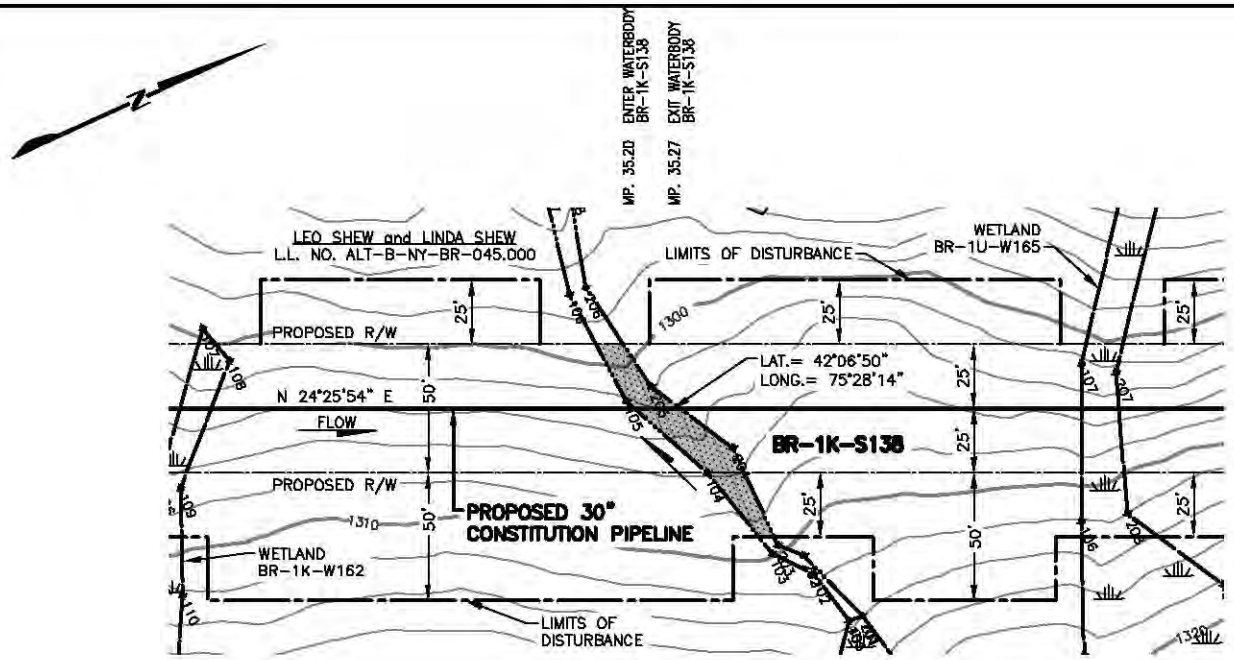
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-05-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-08-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	ISSUE FOR USE	1110415		

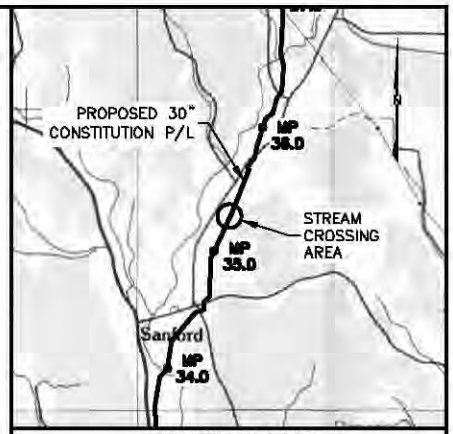
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1U-S135 @ M.P. 35.17
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-26-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1U-S135-1-2	SHEET 74 OF 214
WO: 1110415			



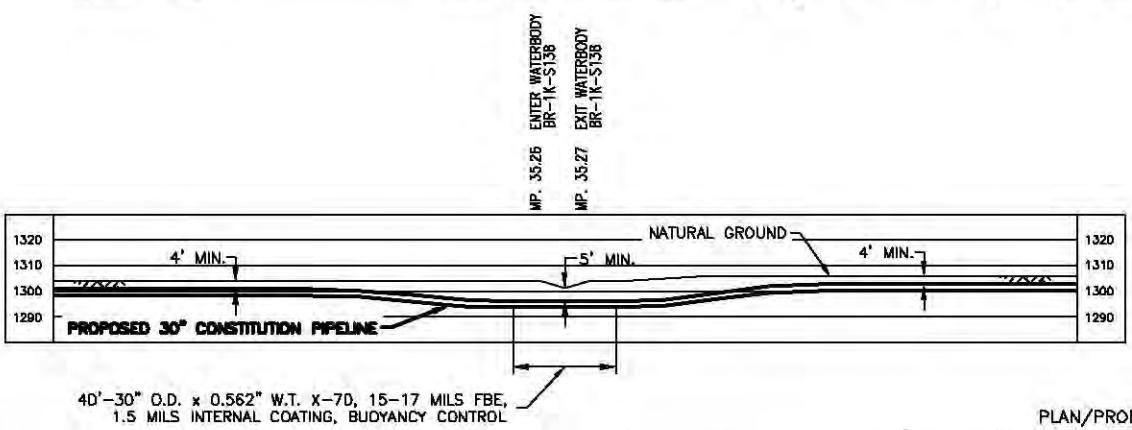


VICINITY MAP

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
BR-1K-S138	UNT of Oquaga Creek	Intermittent	18	0.02	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

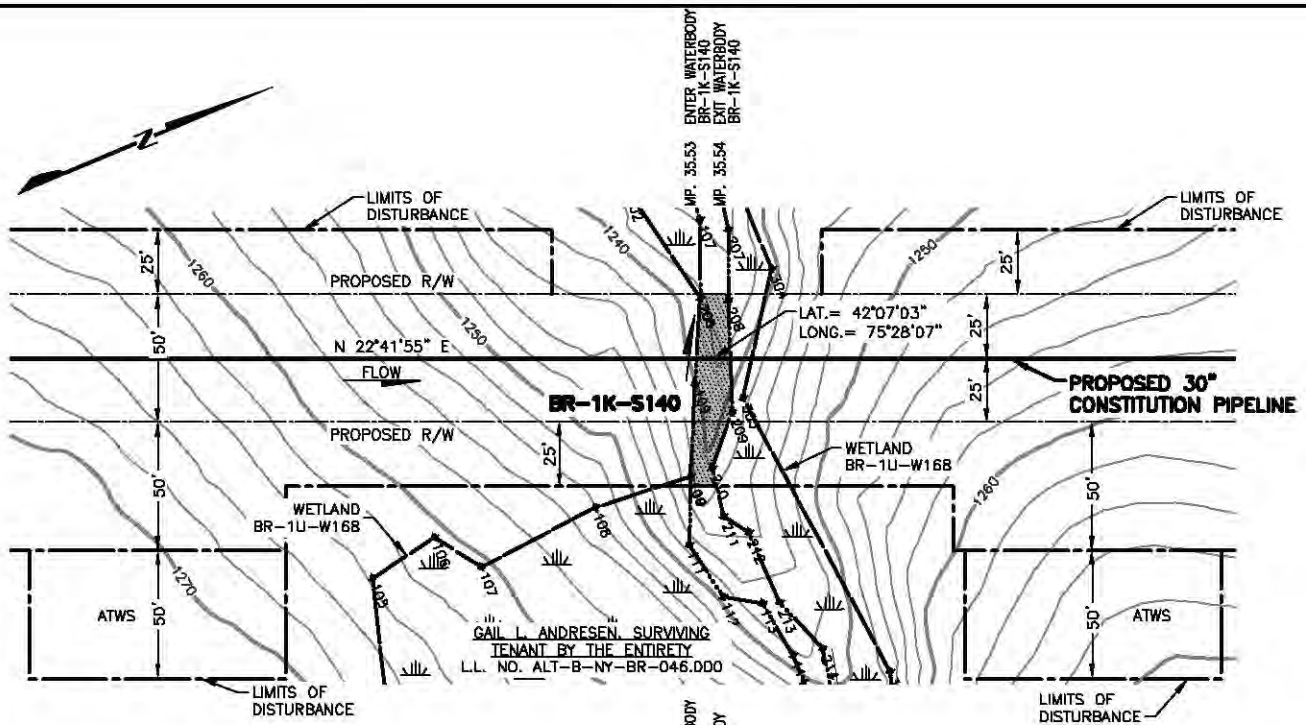
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-09-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	08-13-13	GIE	ISSUED FOR USE	1110415		
1	10-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	ISSUE FOR USE	1110415		

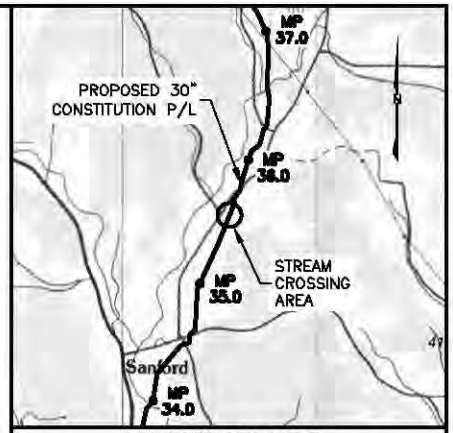
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1K-S138 @ M.P. 35.20
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-26-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1K-S138-1-2	SHEET 75 OF 214
WO: 1110415			



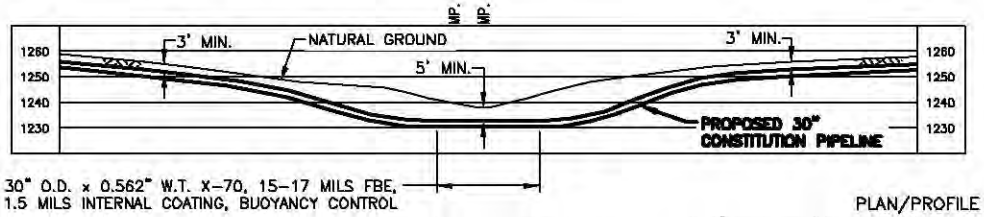


VICINITY MAP

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.
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-1K-S140	UNT of Oquaga Creek	Intermittent	13	0.02	C(T)	Y	T	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-36	ALIGNMENT SHEET

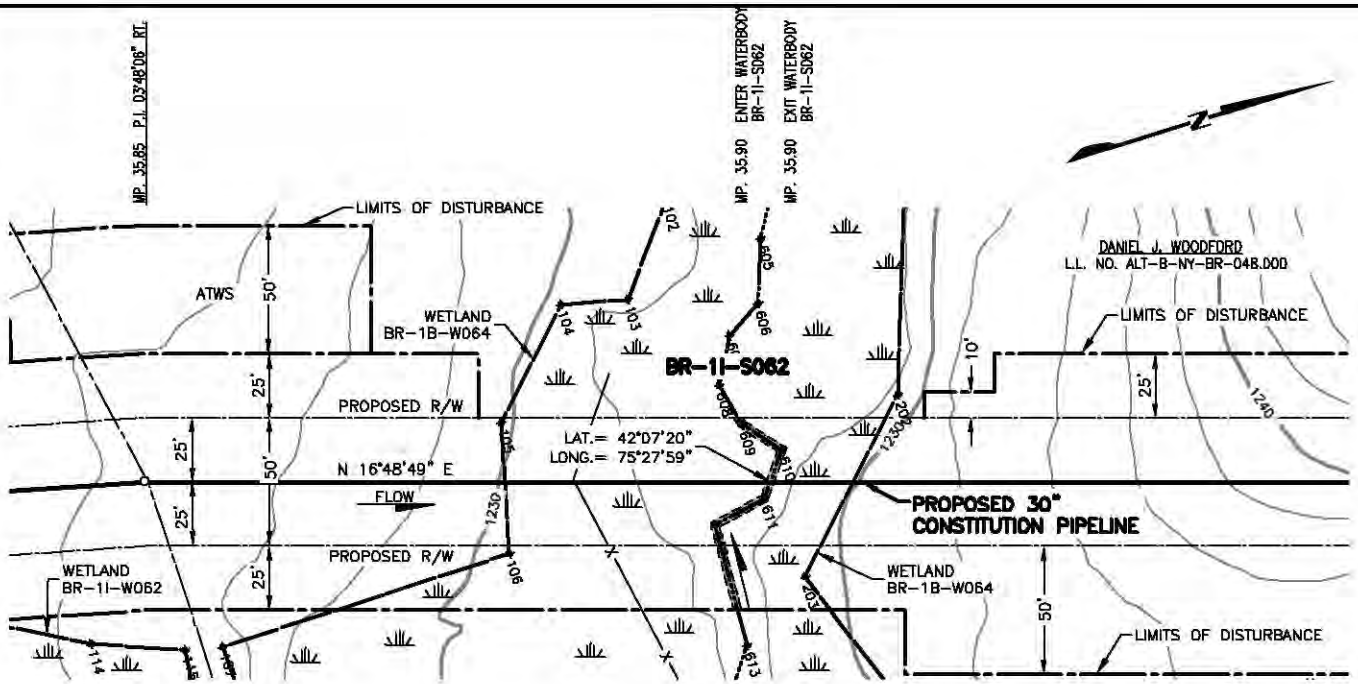
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-06-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	08-16-13	GIE	ISSUE FOR USE	1110415		
1	10-05-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-19-13	GIE	ISSUE FOR USE	1110415		

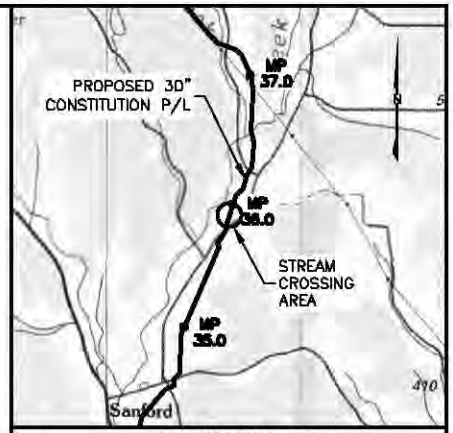
APPLICATION NO.: NAN-2012-00449-UBR

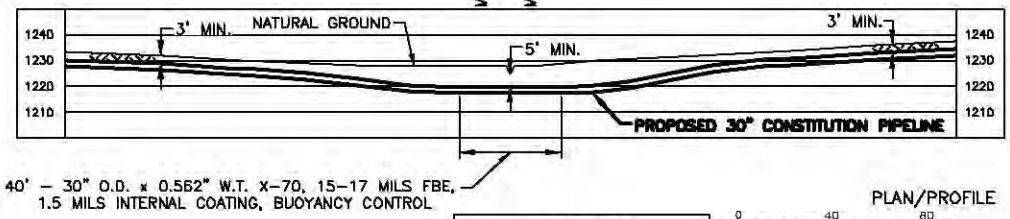
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1K-S140 @ M.P. 35.53
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-26-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1K-S140-1-2	SHEET 76 OF 214
WO: 1110415			







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
BR-1I-S062	UNT to Oquaga Creek	Perennial	3	0.01	C(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

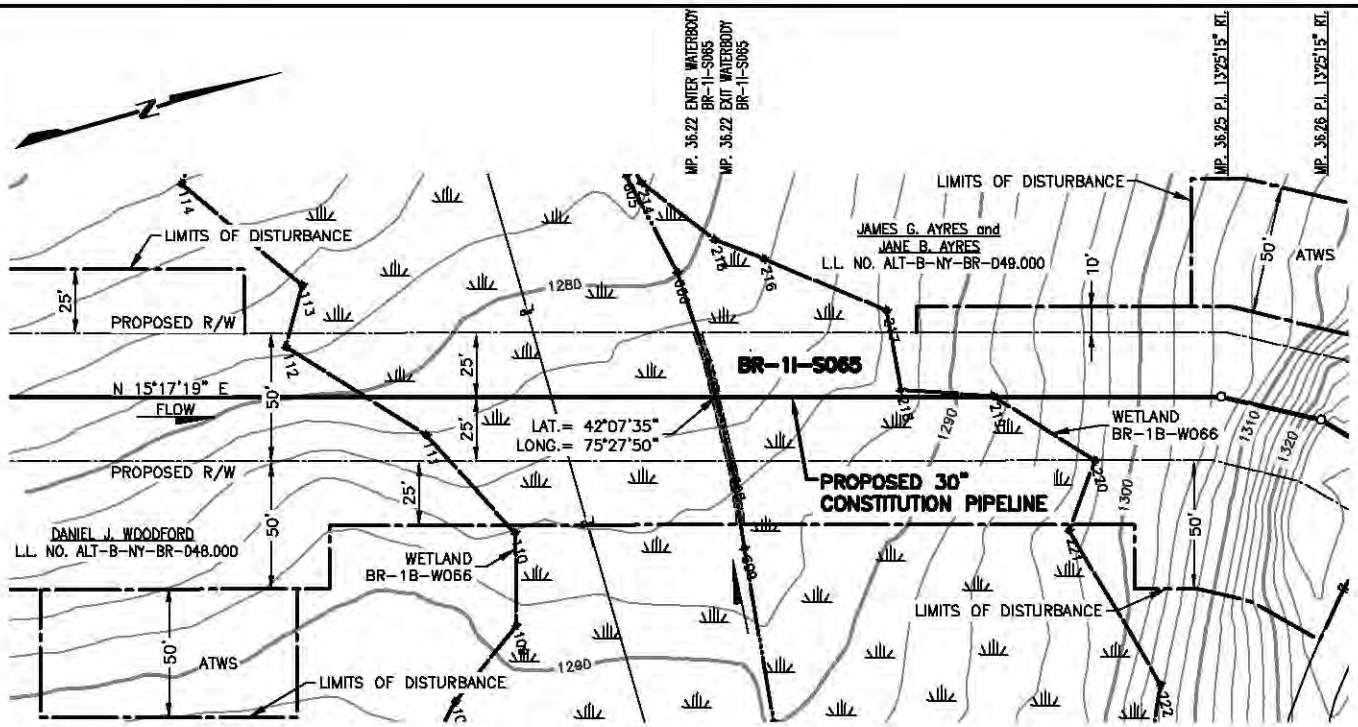
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-12-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
0	08-19-13	GIE	ISSUE FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUE FOR USE	1110415		

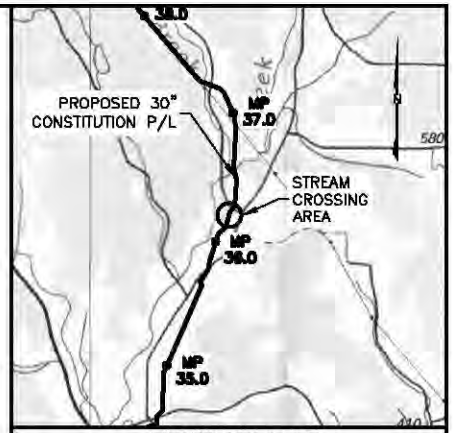
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S062 @ M.P. 35.90
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 04-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S062-1-2	SHEET 77 OF 214
WO: 1110415			



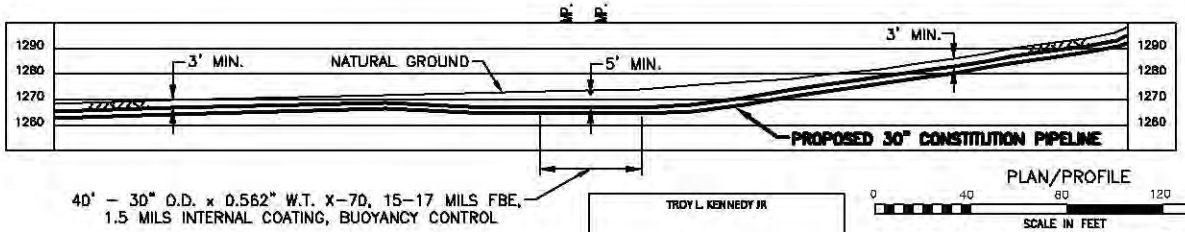


VICINITY MAP

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
BR-1I-S065	UNT to Oquaga Creek	Intermittent	2	0.01	C(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

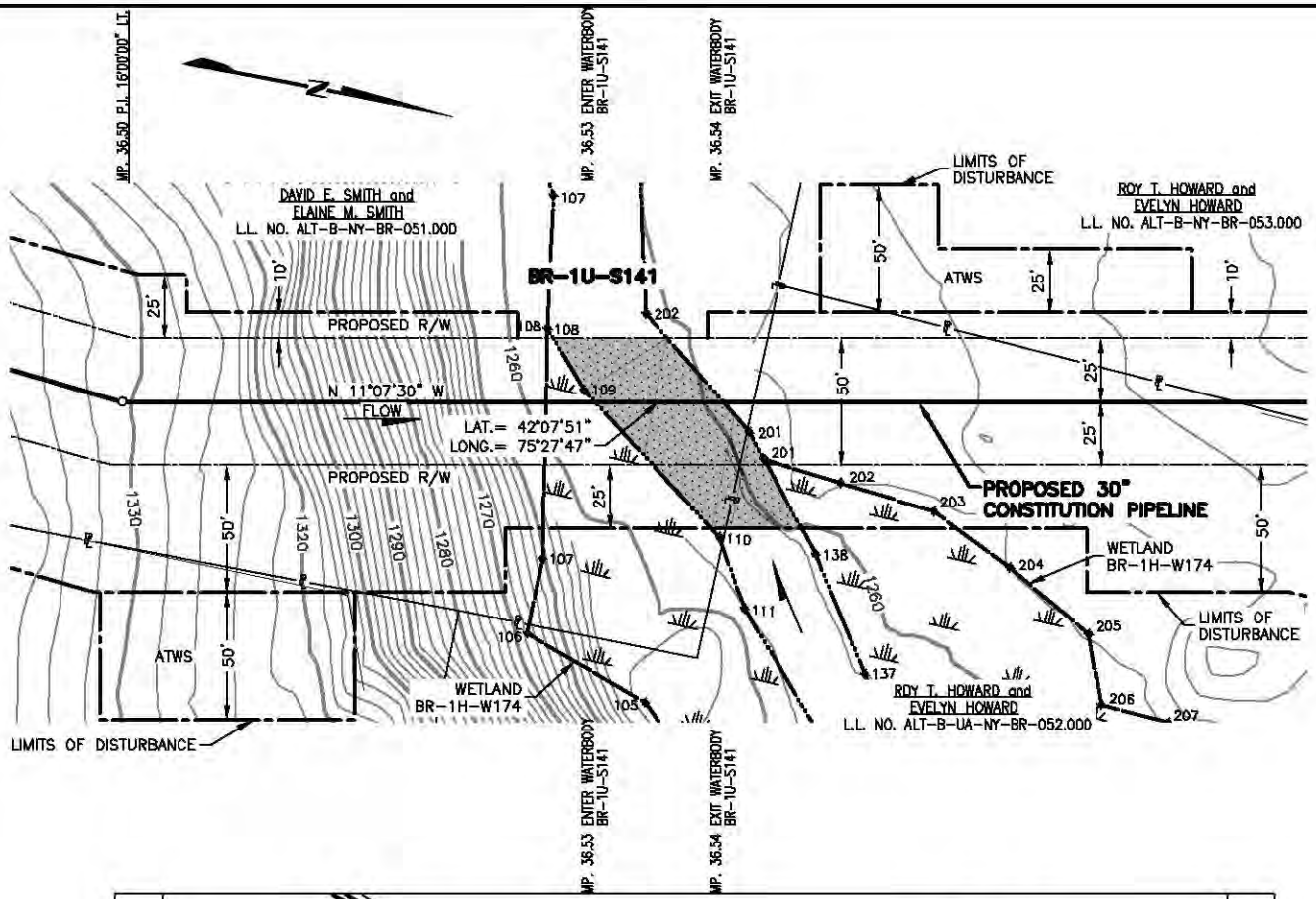
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-03-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-12-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-17-13	GIE	ISSUE FOR USE	1110415		
1	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUE FOR USE	1110415		

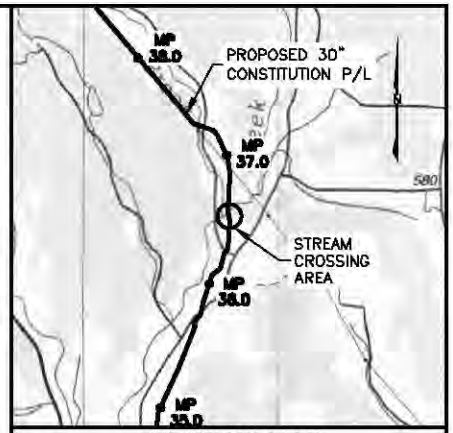
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S065 @ M.P. 36.22
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 07-26-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S065-1-2	SHEET 78 OF 214
WO: 1110415			





VICINITY MAP

USGS QUAD MAP: BINGHAMTOM, NY

5000' 0 5000'

SCALE IN FEET

NOTES:

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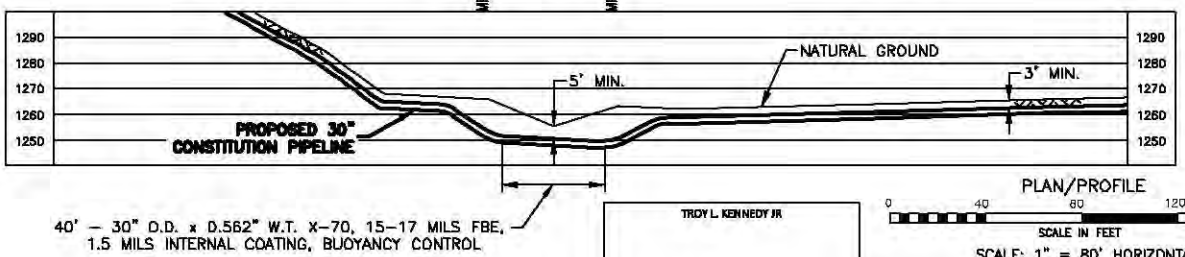


PLAN/PROFILE

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 Use Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1U-S141	Oquaga Creek	Perennial	50	0.08	C(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-37	ALIGNMENT SHEET

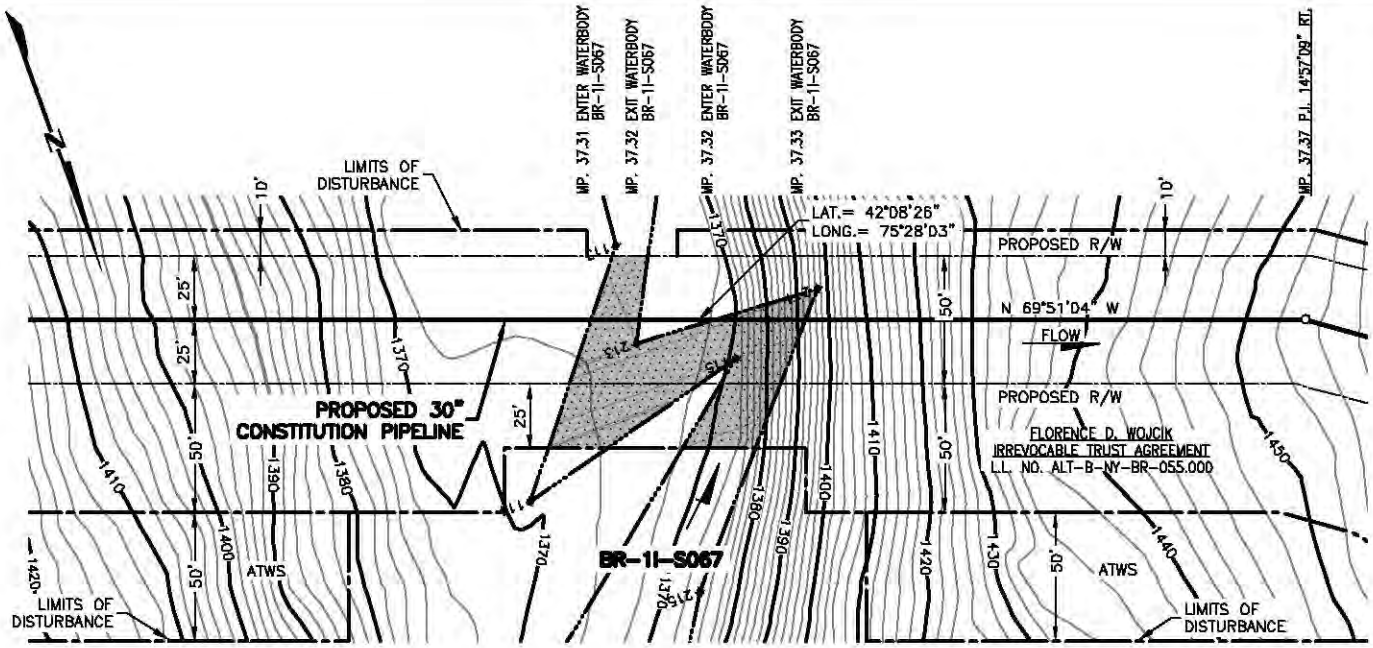
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-16-13	GIE	REVISED-ISSUED FOR CLIENT REVIEW	1110415		
D	08-21-13	GIE	REVISED-ISSUED FOR CLIENT REVIEW	1110415		
0	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-24-13	GIE	ISSUE FOR USE	1110415		

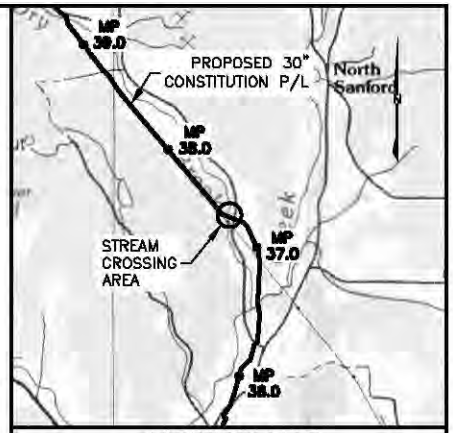
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1U-S141 @ M.P. 36.53
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-05-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1U-S141-1-2	SHEET 79 OF 214
WO: 1110415			



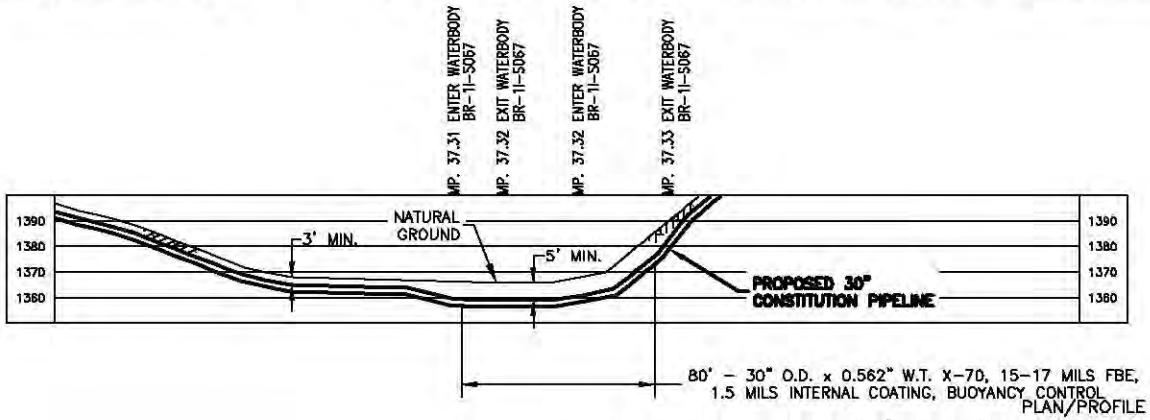


VICINITY MAP

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 Classification	NYSDEC Protected Stream (Y/N)	State Fishery Classification	Crossing Method
BR-1I-S067	Dry Brook	Perennial	55	0.09	C(T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-38	ALIGNMENT SHEET

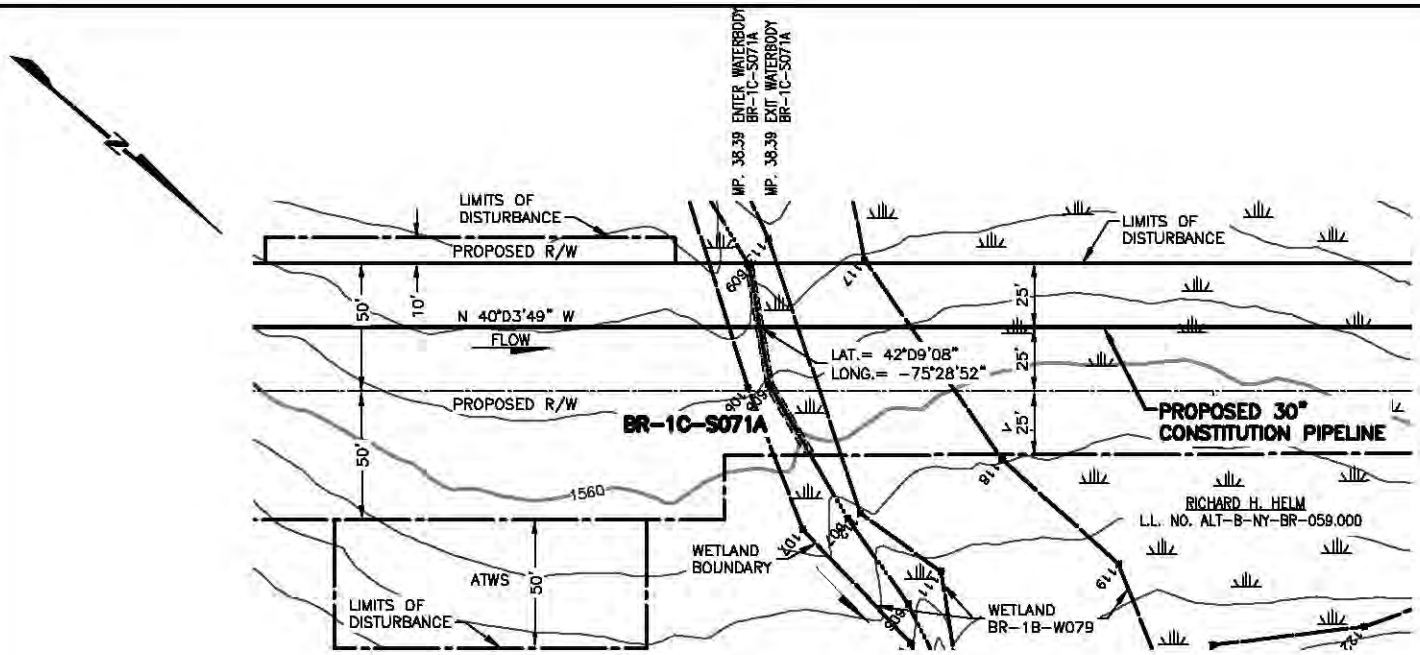
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-14-13	GIE	REVISED - ISSUED FOR REVIEW	1110415		
C	08-18-13	GIE	REVISED - ISSUED FOR REVIEW	1110415		
D	08-19-13	GIE	ISSUE FOR USE	1110415		
1	10-07-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-23-13	GIE	ISSUE FOR USE	1110415		

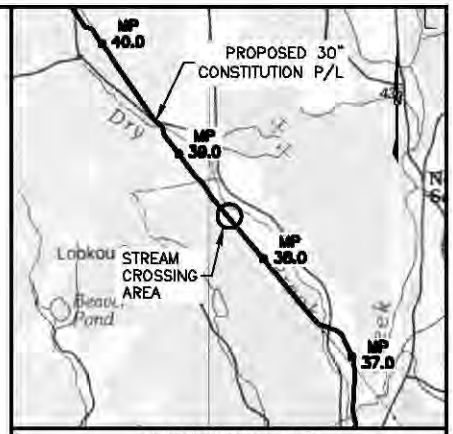
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1I-S067 @ M.P. 37.31
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 05-15-2013	ISSUED FOR BID:	SCALE: 1"= 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-09-85/BR-1I-S067-1-2	SHEET 80 OF 214
WO: 1110415			



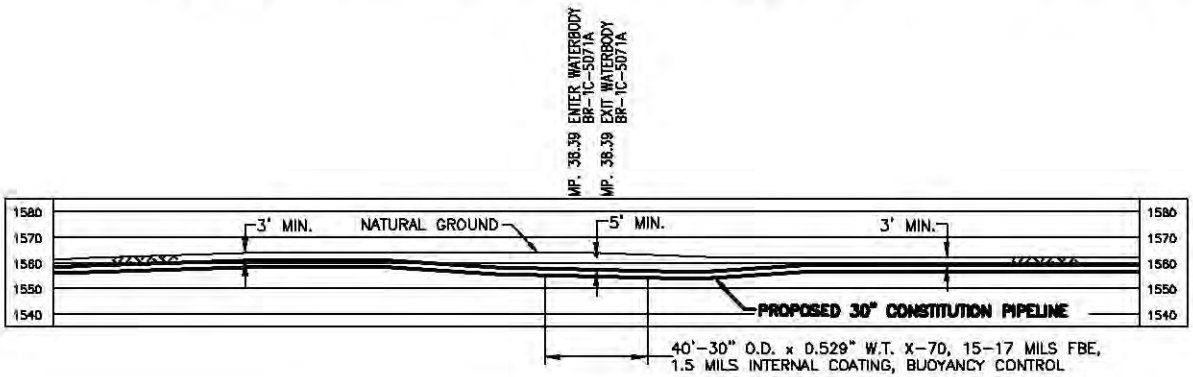


VICINITY MAP

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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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-S071A	Unt to Dry Brook	Ephemeral	2	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-39	ALIGNMENT SHEET

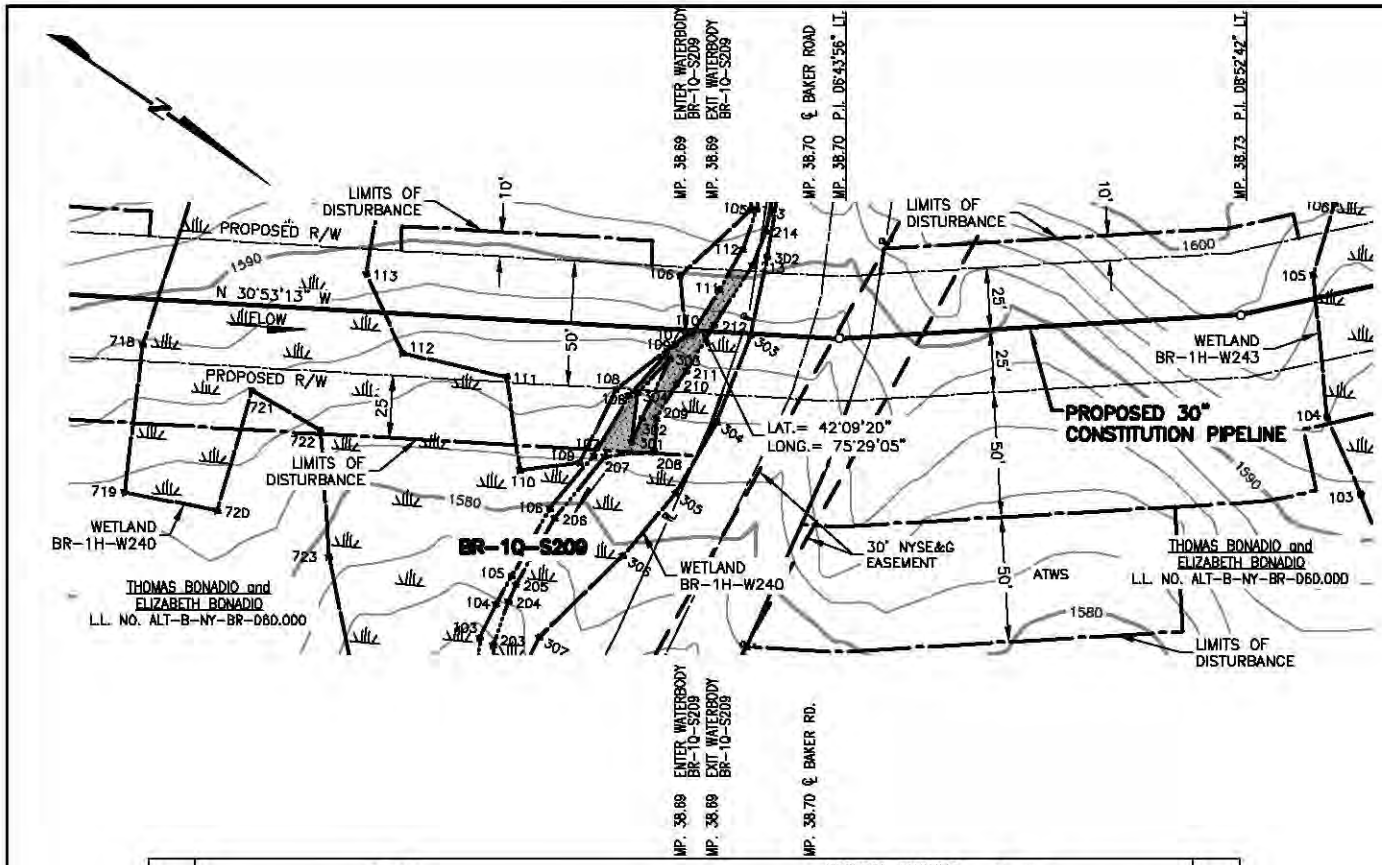
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
B	08-14-13	GIE	REVISED - ISSUE FOR REVIEW	1110415		
0	08-19-13	GIE	ISSUED FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUED FOR USE	1110415		

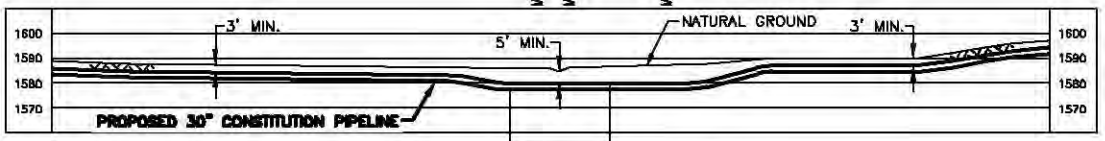
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1C-S071A @ M.P.38.39
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

DRAWN BY: GIE	DATE: 06-01-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER: 26-D9-B5/BR-1C-S071A-1-3	SHEET 81 OF 214
WO: 1110415			



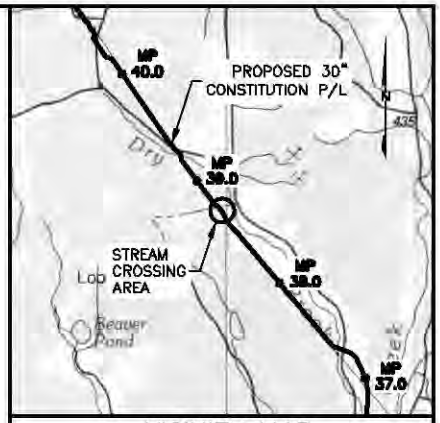


30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE,
1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

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.
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-1Q-S209	UNT to Dry Brook	Perennial	7	0.00	C(T)	N	T	Conventional Bore

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

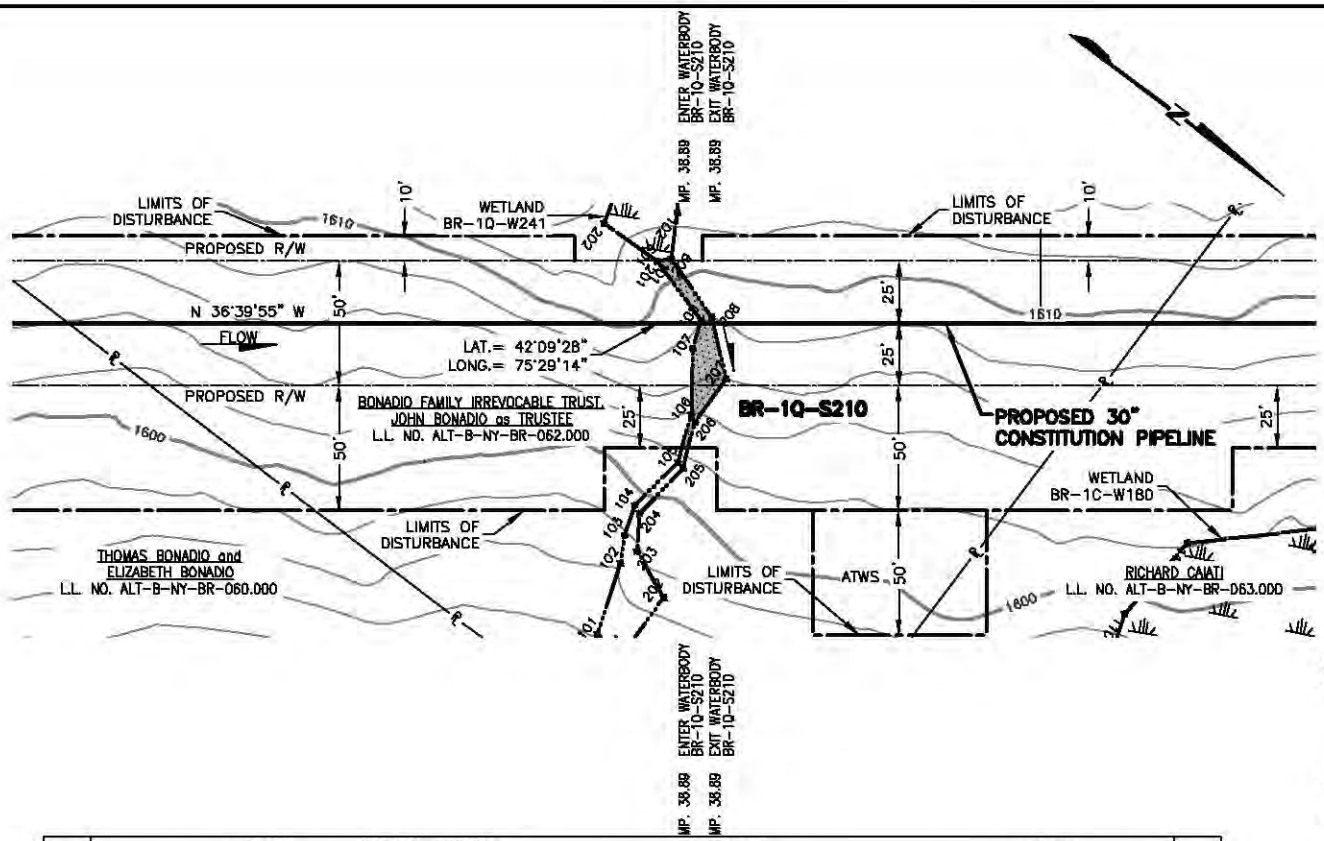
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-17-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

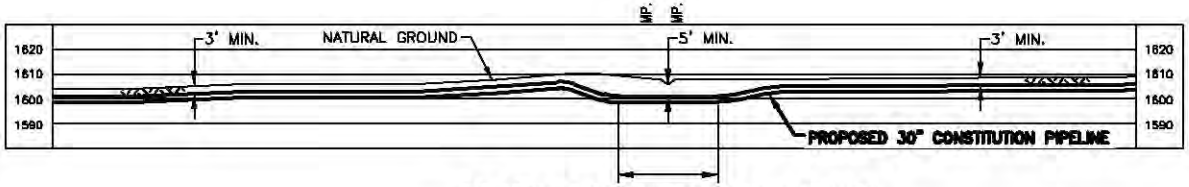
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1Q-S209 @ M.P. 38.69
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-1Q-S209-1-D	SHEET 82 OF 214
WO: 1110415			





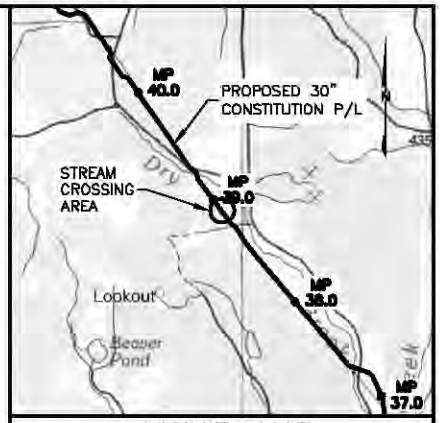
40'-30" O.D. x 0.529" W.T. X-70, 15-17 MILS FBE, 1.5 MILS INTERNAL COATING, BUOYANCY CONTROL

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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



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.

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-1Q-S210	UNT to Dry Brook	Ephemeral	5	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

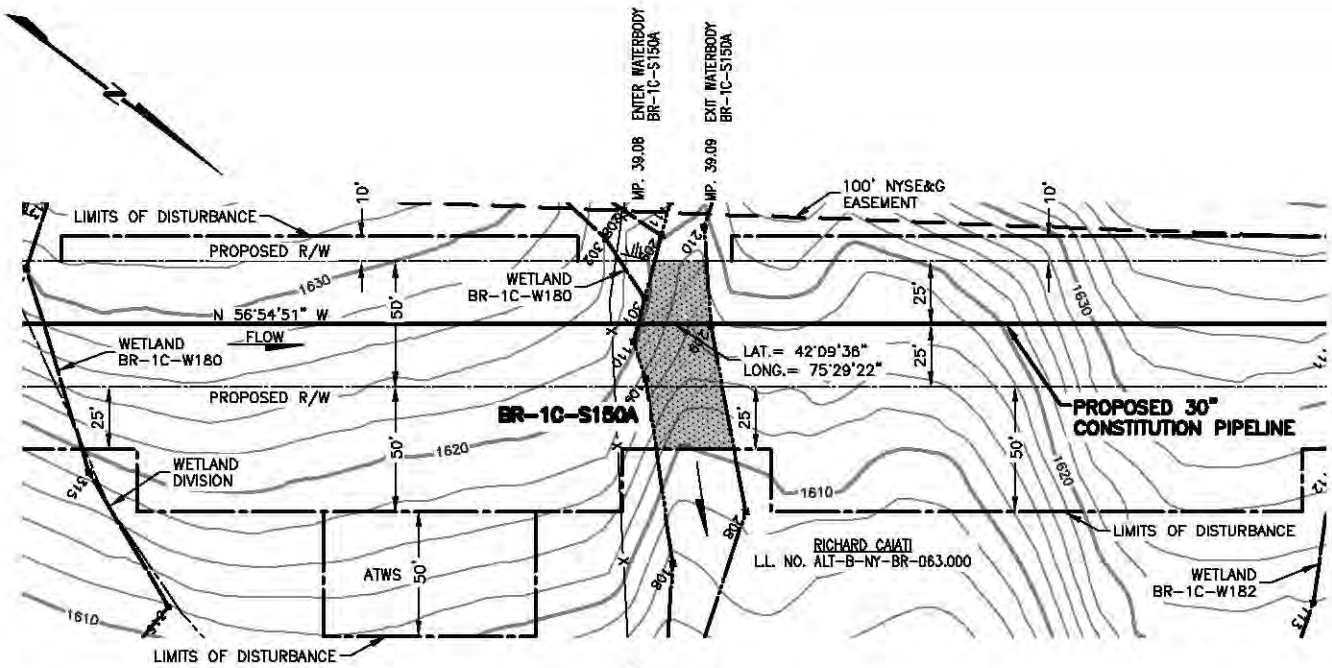
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-15-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

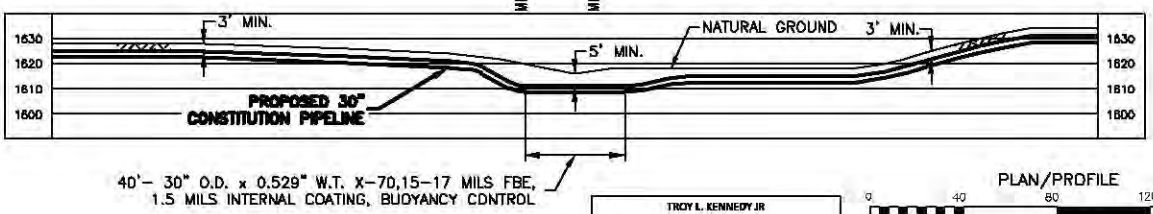
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1Q-S210 @ M.P. 38.89
TOWN OF SANFORD
BROOME 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/BR-1Q-S210-1-D	SHEET 83 OF 214
WO: 1110415			



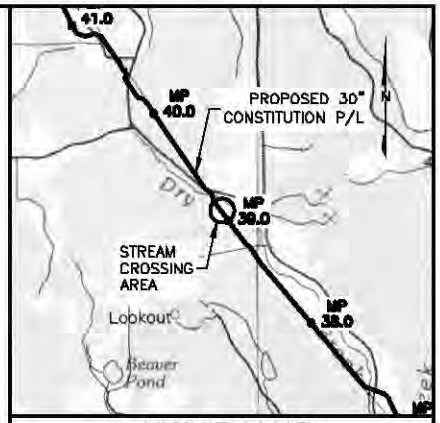


PLAN/PROFILE

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:

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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
BR-1C-S150A	UNT to Dry Brook	Ephemeral	29	0.05	D	N	N/A	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

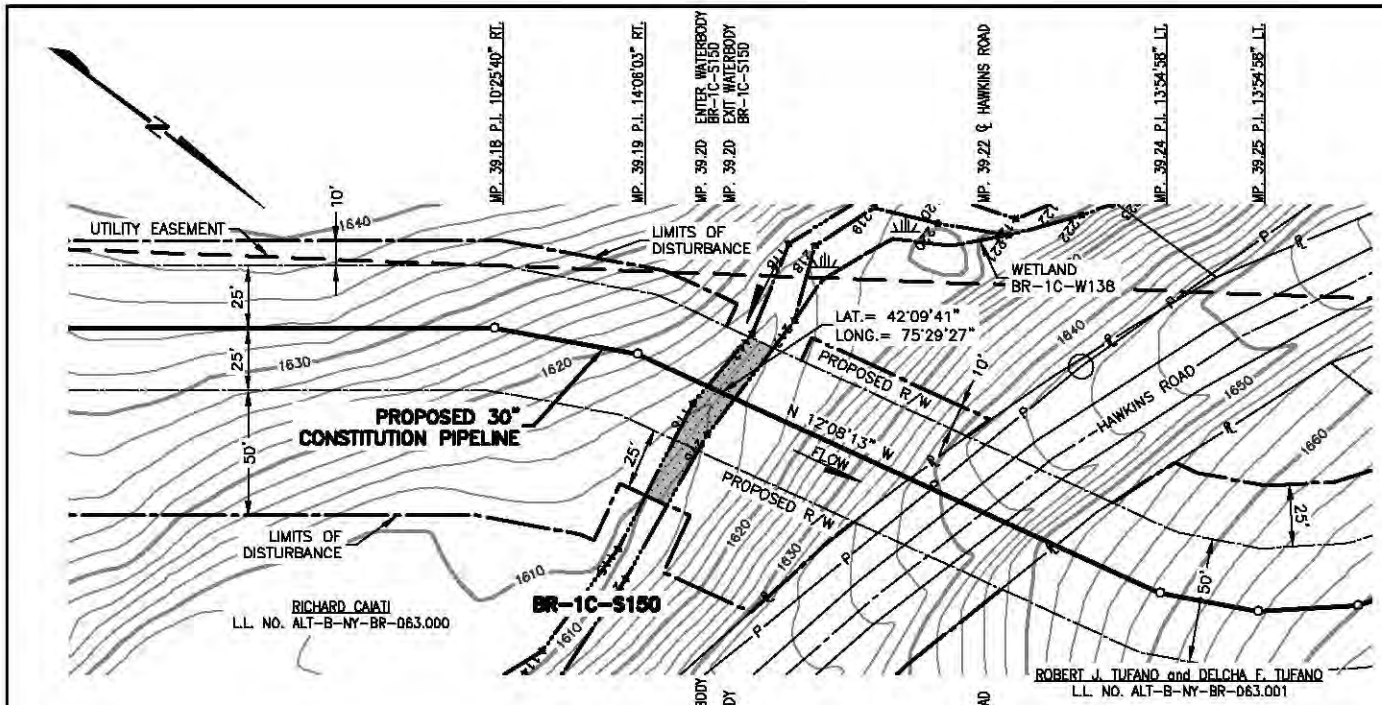
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	08-06-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	08-14-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-16-13	GIE	ISSUED FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-22-13	GIE	ISSUED FOR USE	1110415		

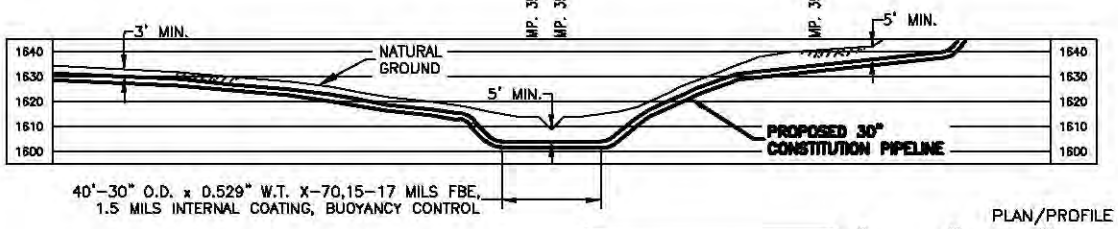
GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

APPLICATION NO.: NAN-2012-00449-UBR

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1C-S150A @ M.P. 39.08
TOWN OF SANFORD
BROOME 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/BR-1C-S150A-1-2	SHEET 84 OF 214
WO: 1110415			



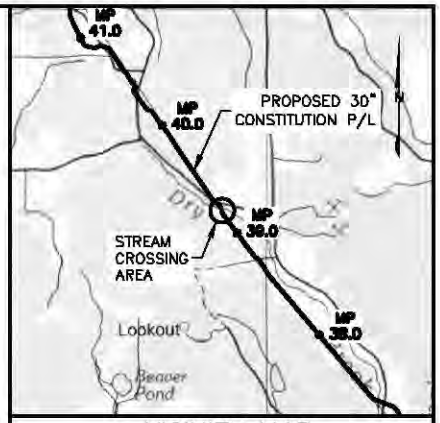


PLAN/PROFILE

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:

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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
BR-1C-S150	Dry Brook	Perennial	12	0.02	C (T)	Y	(T)	Dry

TROY L. KENNEDY JR

N.Y. PROFESSIONAL ENGINEER
NO. 69074

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

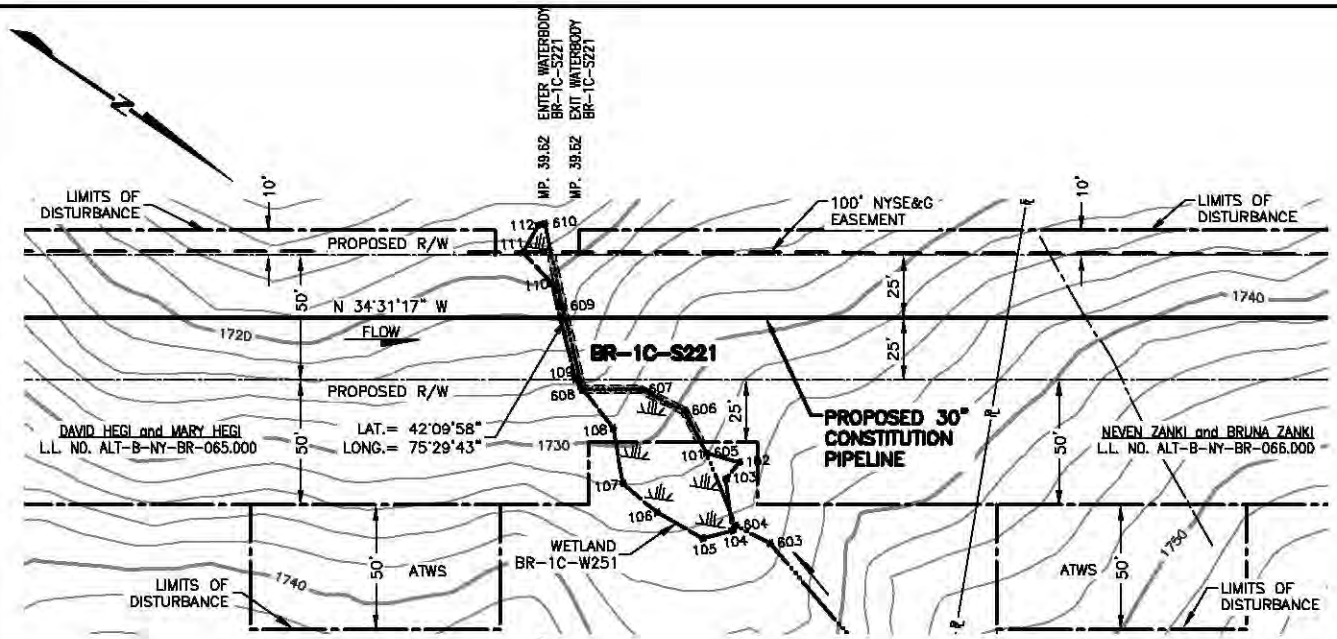
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
C	08-18-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	08-21-13	GIE	ISSUE FOR USE	1110415		
1	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUE FOR USE	1110415		

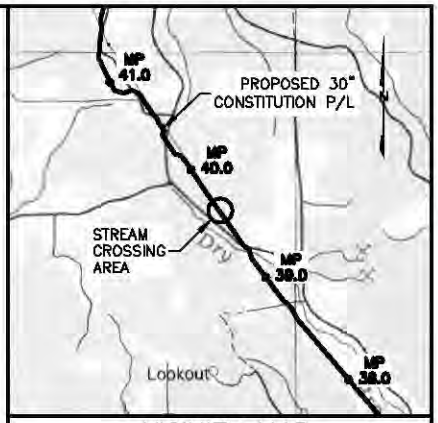
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1C-S150 @ M.P. 39.20
TOWN OF SANFORD
BROOME 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/BR-1C-S150-1-3	SHEET 85 OF 214
WO: 1110415			



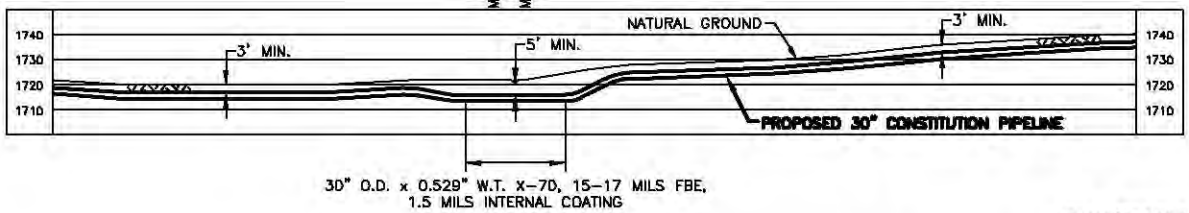


VICINITY MAP

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.

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-S221	UNT to Dry Brook	Ephemeral	3	0.01	D	N	N/A	Dry

TROY L. KENNEDY JR

PLAN/PROFILE

0 40 80 120 160

SCALE IN FEET

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

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-40	ALIGNMENT SHEET

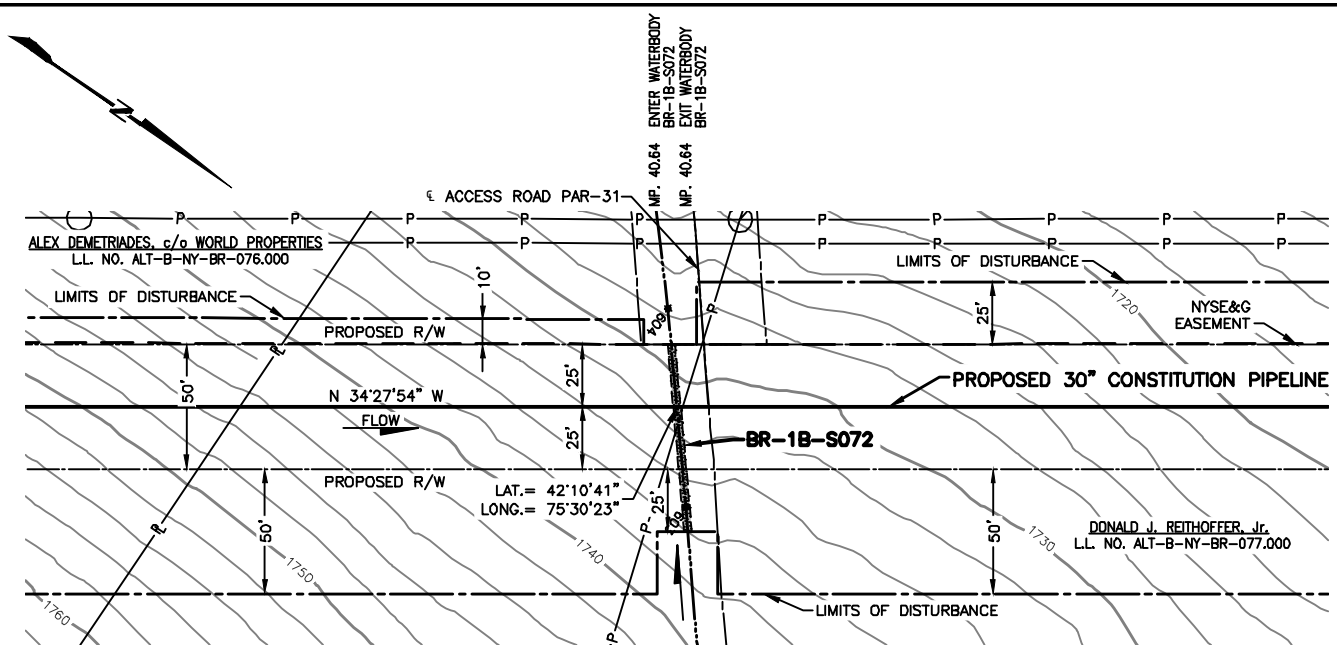
NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
A	10-17-13	GIE	ISSUED FOR CLIENT REVIEW	1110415		
B	10-27-13	GIE	REVISED - ISSUED FOR CLIENT REVIEW	1110415		
D	10-31-13	GIE	ISSUE FOR USE	1110415		

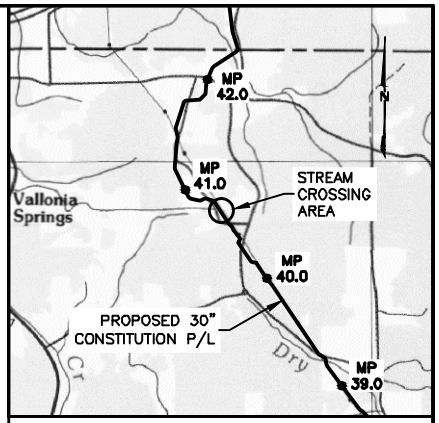
APPLICATION NO.: NAN-2012-00449-UBR

GULF INTERSTATE ENGINEERING
HOUSTON, TEXAS

CONSTITUTION PIPELINE COMPANY, LLC.
ACOE & NYSDEC JOINT PERMIT
PROPOSED 30" NATURAL GAS PIPELINE
STREAM CROSSING BR-1C-S221 @ M.P. 39.62
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: 1110415	DATE:	DRAWING NUMBER: 26-09-85/BR-1C-S221-1-D	SHEET 86 214



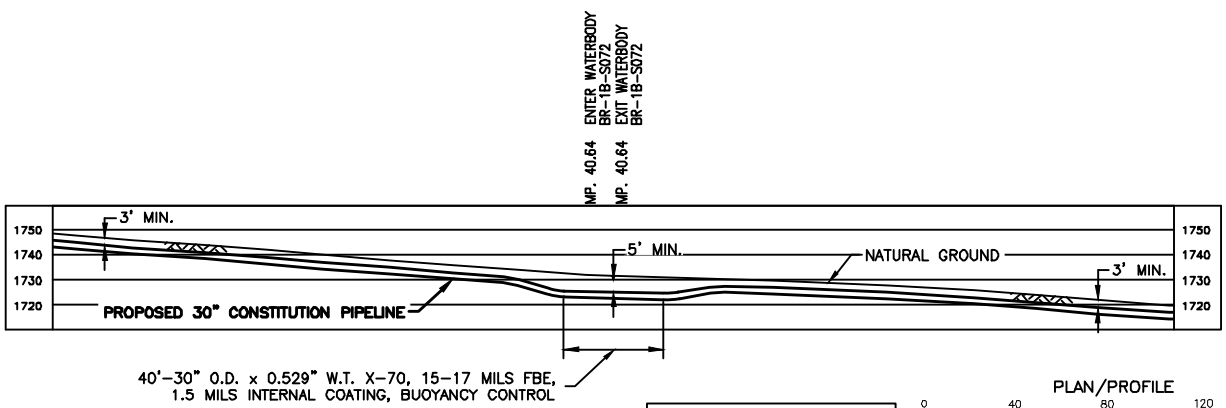


VICINITY MAP

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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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-1B-S072	Road Ditch	Ephemeral	1	0.01	N/A	N	N/A	Dry

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 CROSSING BR-1B-S072 @ M.P. 40.64
TOWN OF SANFORD
BROOME COUNTY, NEW YORK

CONSTITUTION PIPELINE

DRAWING NO.	REFERENCE TITLE
26-26-70/0001-42	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	10-08-13	GIE	REVISED - ISSUE FOR USE	1110415		
2	10-23-13	GIE	REVISED - ISSUE FOR USE	1110415		
3	10-28-13	GIE	ISSUE FOR USE	1110415		

DRAWN BY: GIE	DATE: 06-17-2013	ISSUED FOR BID:	SCALE: 1" = 80'
CHECKED BY:	DATE:	ISSUED FOR CONSTRUCTION:	
APPROVED BY:	DATE:	DRAWING NUMBER 26-09-85/BR-1B-S072-1-3	SHEET 87 OF 214
WO: 1110415			