

- GENERAL NOTES:**
1. ALL PIPELINE CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NYSpsc, FEBRUARY 2006, "ENVIRONMENTAL MANAGEMENT AND CONSTRUCTION STANDARDS AND PRACTICES FOR UNDERGROUND TRANSMISSION AND DISTRIBUTION FACILITIES IN NEW YORK STATE" HANDBOOK, IN ADDITION TO THE "VILLAGE OF HAMILTON GAS CONSTRUCTION STANDARDS MANUAL"
  2. EXISTING UTILITIES DIMENSIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PIPE INSTALLATION.
  3. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CROSS THE RIGHT OF WAY LIMITS AND/OR PROPERTY LIMITS DEFINED, ONTO PRIVATE PROPERTY.
  4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING PROPERTY LINE SURVEY PINS LOST DURING CONSTRUCTION.
  5. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL EROSION AND SILTATION. THIS INCLUDES, BUT IS NOT LIMITED TO, DEWATERING, ERECTION OF BARRICADES, CLEAN-UPS DUE TO INCLEMENT WEATHER, ETC.
  6. CONTRACTOR IS RESPONSIBLE (AT HIS OWN EXPENSE) FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES, FACILITIES, CULVERTS, FENCING, CURBS, ROADWAYS, GUIDERAILS, DRIVEWAYS, ETC., CROSSED OR DISTURBED DURING CONSTRUCTION. REPLACEMENT OF THE SAME ITEM TO ITS ORIGINAL CONDITION OR BETTER, WILL BE REQUIRED.
  7. ALL GAS PIPE DIMENSIONS ARE CONCEPTUAL ONLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD ROUTING THE PIPE ACCORDING TO EXISTING CONDITIONS. THE VILLAGE SHALL NOT BE HELD RESPONSIBLE FOR INCORRECT DIMENSIONS SHOWN ON THE DRAWINGS, CONFLICTS BETWEEN THE SPECIFICATIONS OR DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE VILLAGE REPRESENTATIVE. THE VILLAGE WILL DETERMINE WHICH IS MORE RELEVANT TO THE AREA IN QUESTION.
  8. MAINTAIN A MINIMUM OF 12" CLEARANCE (UNLESS OTHERWISE NOTED), IN ALL DIRECTIONS, BETWEEN THE PIPE AND ANY OTHER EXISTING UTILITIES CROSSED OR PARALLELED.
  9. THESE PLANS ARE CREATED FROM AVAILABLE RECORD MAPS, TAX MAPS, AND AERIALS. THE EXISTING PROPERTY LINES WERE NOT SURVEYED, THEREFORE THE ACCURACY IS APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD, BY THE CONTRACTOR, PRIOR TO COMMENCING WORK.
- GENERAL NOTES REGARDING DEPTH OF PIPE**
1. 2" AND 4" GAS TO BE INSTALLED WITH 36 INCHES OF COVER UNLESS OTHERWISE NOTED ON PLANS.
  2. 6" AND 8" GAS TO BE INSTALLED WITH 40 INCHES OF COVER UNLESS OTHERWISE NOTED ON PLANS.
  3. 10" PIPING FROM CITY GATE STATION TO AIRPORT ROAD WILL BE INSTALLED WITH 48 INCHES OF COVER. 10" PIPING ALONG WINGS WAY TO BE INSTALLED WITH 40 INCHES OF COVER. SEE TRENCH DETAIL ON SHEET 71.
  4. ALL STATE ROAD CROSSINGS SHALL BE INSTALLED AT A MINIMUM OF 5 FEET BELOW PAVEMENT. ALL PIPING WITHIN DOT ROW SHALL BE INSTALLED WITH A MINIMUM OF 48 INCHES OF COVER.

SEE WORK ORDER 13-001-05 FOR GATE STATION LAYOUT AND DETAILS SHEET 78-86

WHITE EAGLE NONFARM, LLC  
124.-1-35.12

VALK, CHRISTOPHER AND CATHLEEN  
124.-1-37

MATCH LINE W/SHT2

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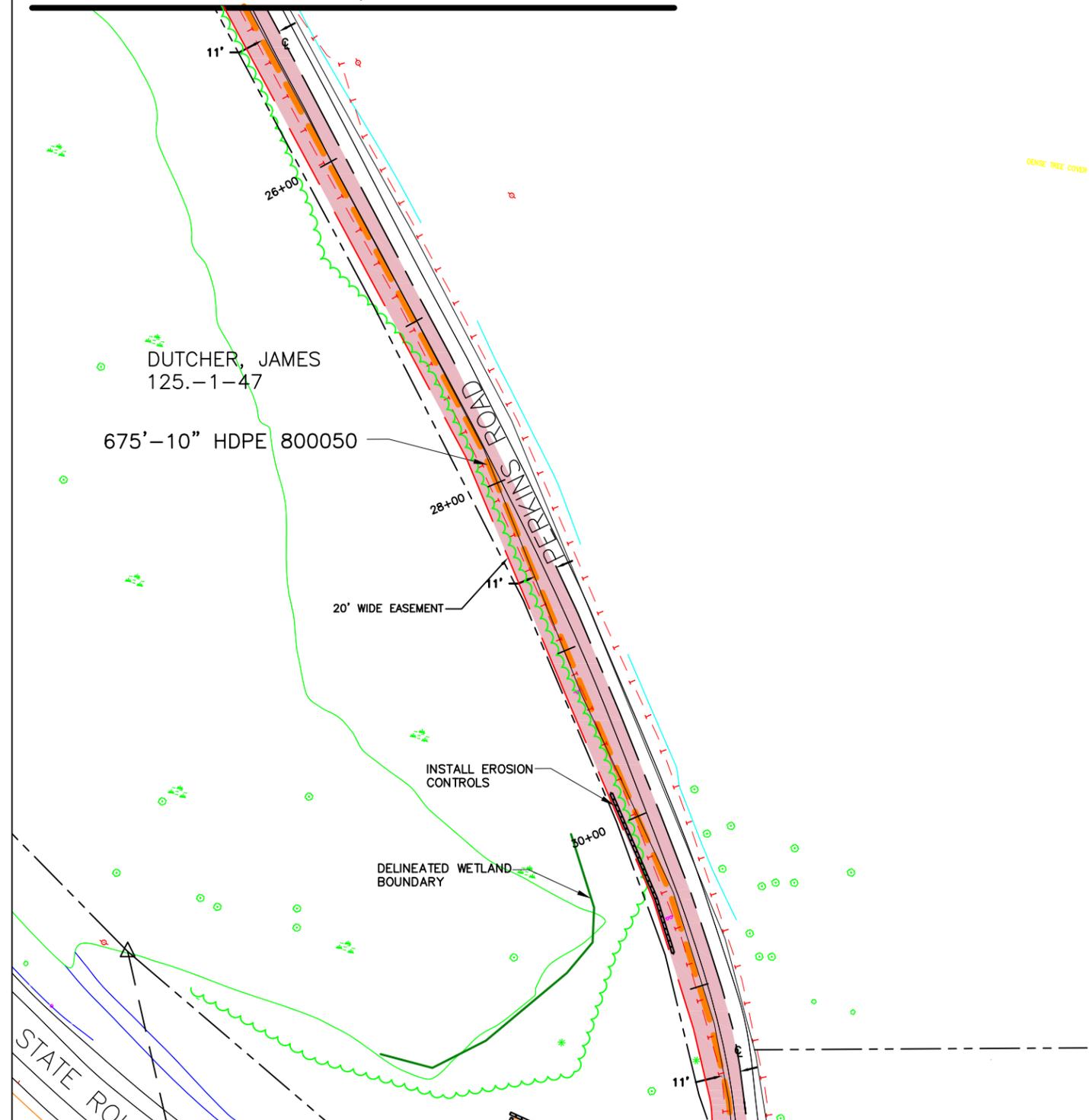


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**HAMILTON PIPELINE**

SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV <b>-</b>
SCALE 1"=50'	DATE 11-09-13	SHEET 2 OF 86	

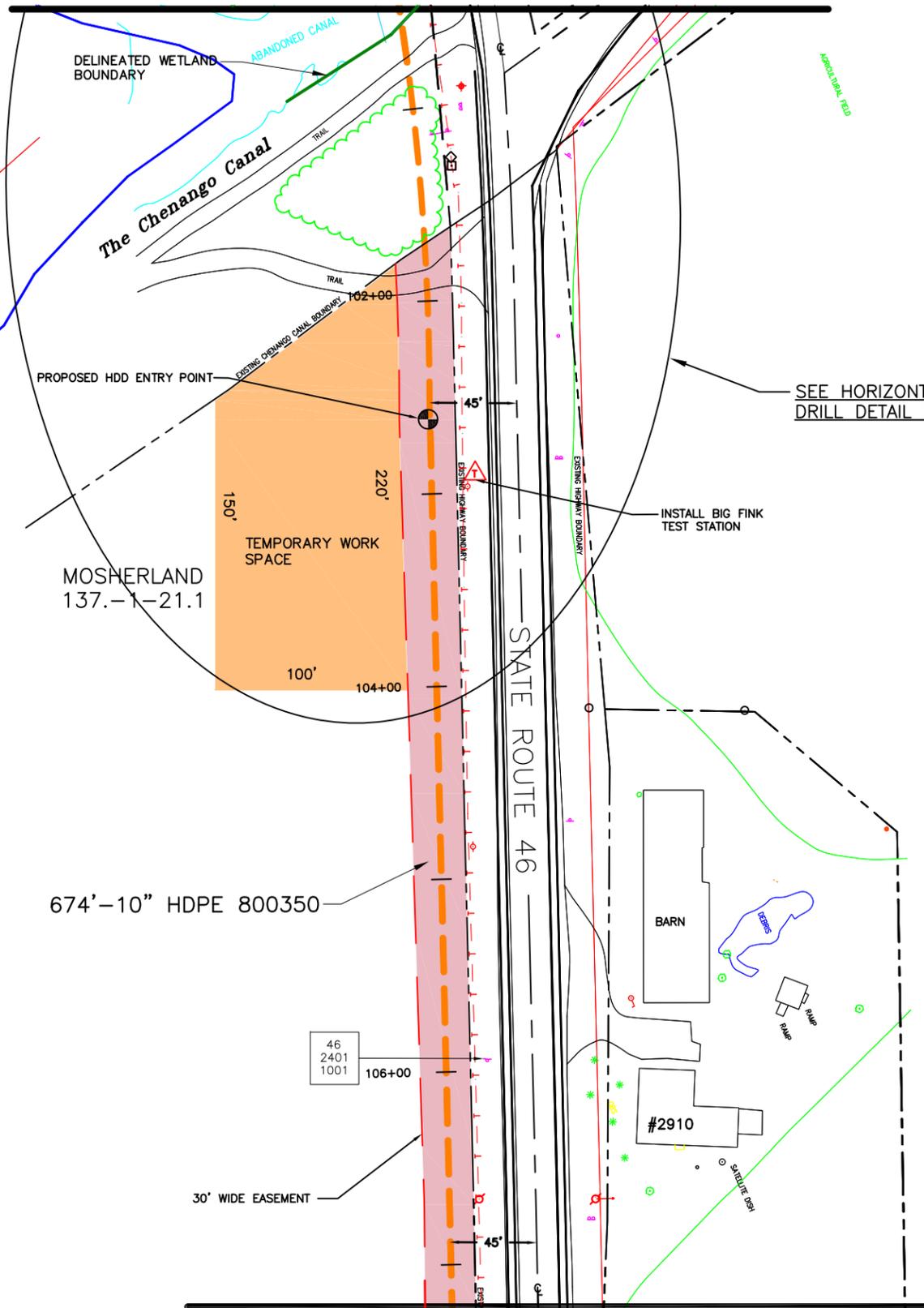
MATCH LINE W/SHT5



MATCH LINE W/SHT7

		<a href="http://www.gasengineering.com">www.gasengineering.com</a>	
<b>HAMILTON PIPELINE</b>			
SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 6 OF 86	

MATCH LINE W/SHT15



SEE HORIZONTAL DIRECTIONAL DRILL DETAIL SHEET 76

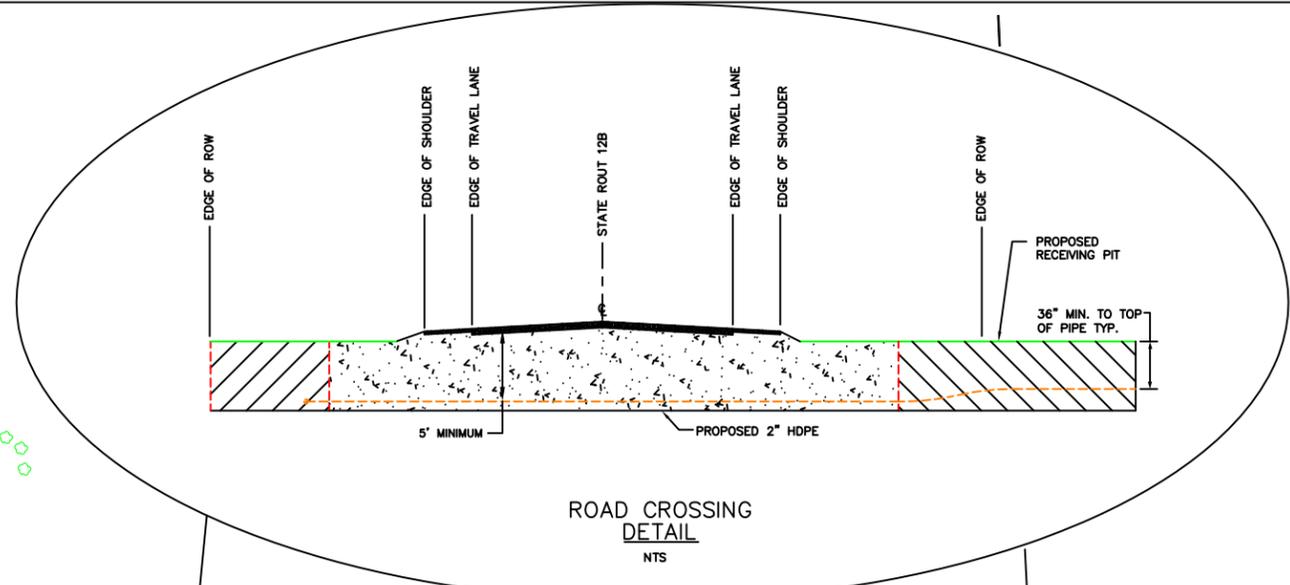
Mosherland LLC.  
137.-1-21.1

BARN

#2910

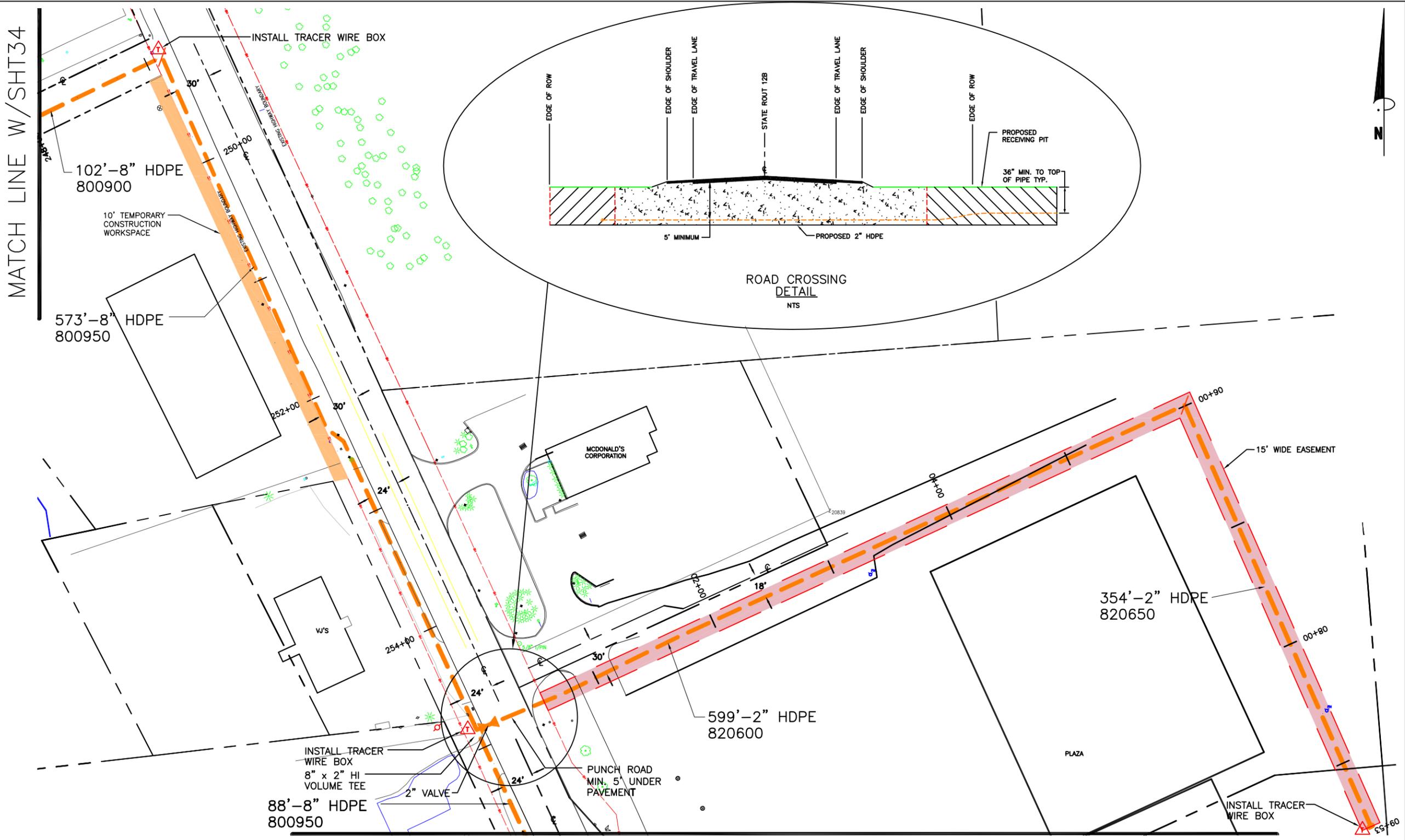
MATCH LINE W/SHT17

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<b>HAMILTON PIPELINE</b>		SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 16 OF 86			



MATCH LINE W/SHT34

MATCH LINE W/SHT36



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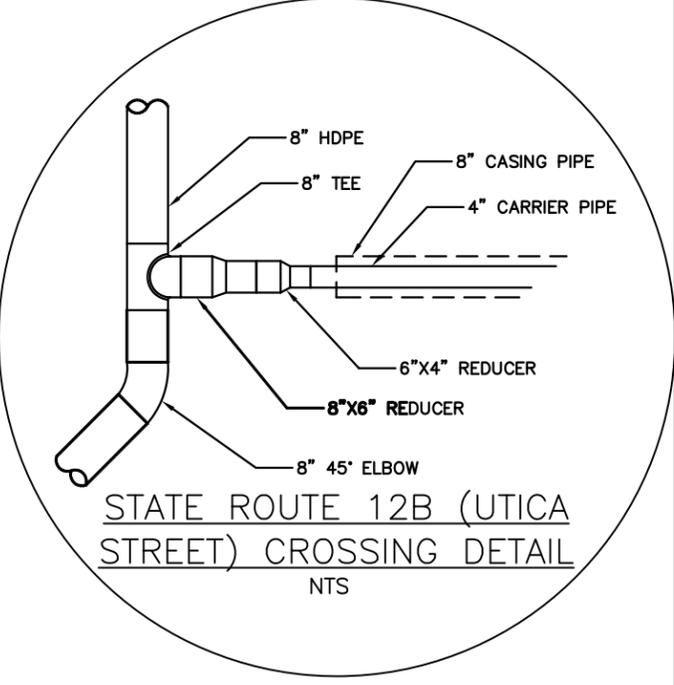
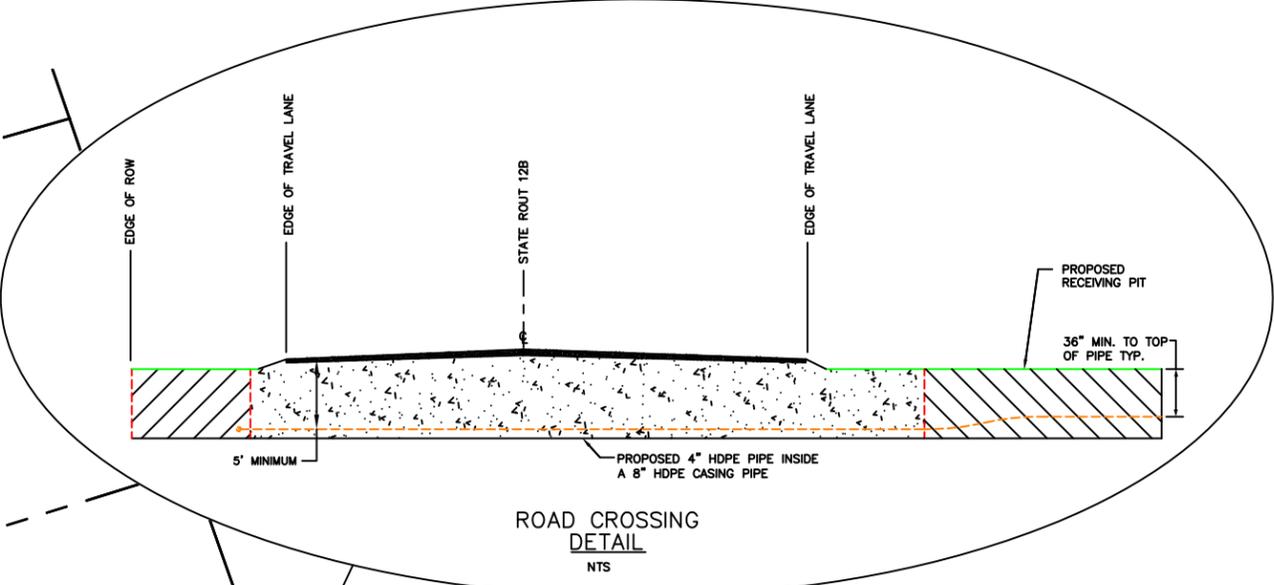


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**HAMILTON PIPELINE**

SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 35 OF 86	

MATCH LINE W/SHT36



MATCH LINE W/SHT38

MATCH LINE W/SHT62

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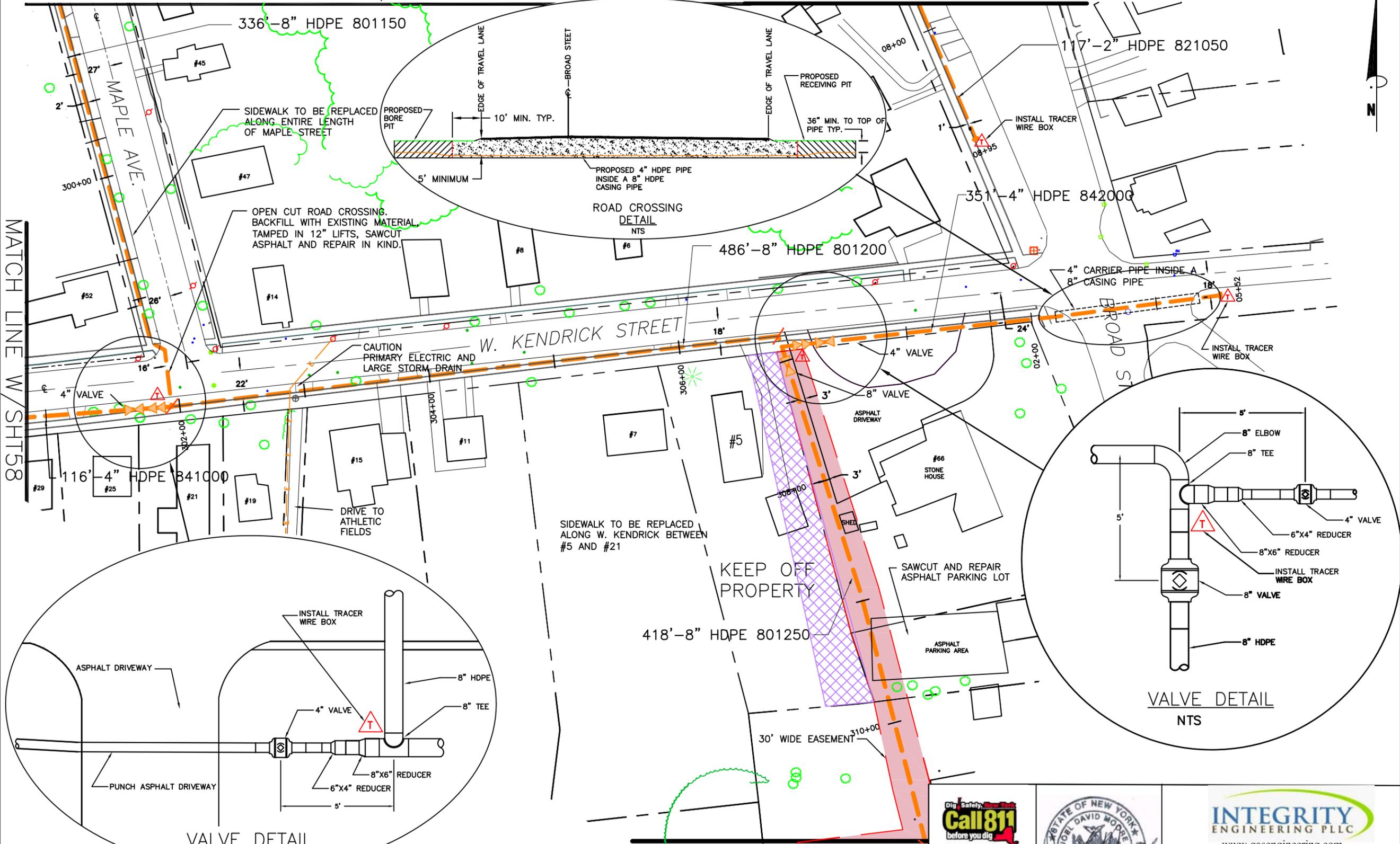


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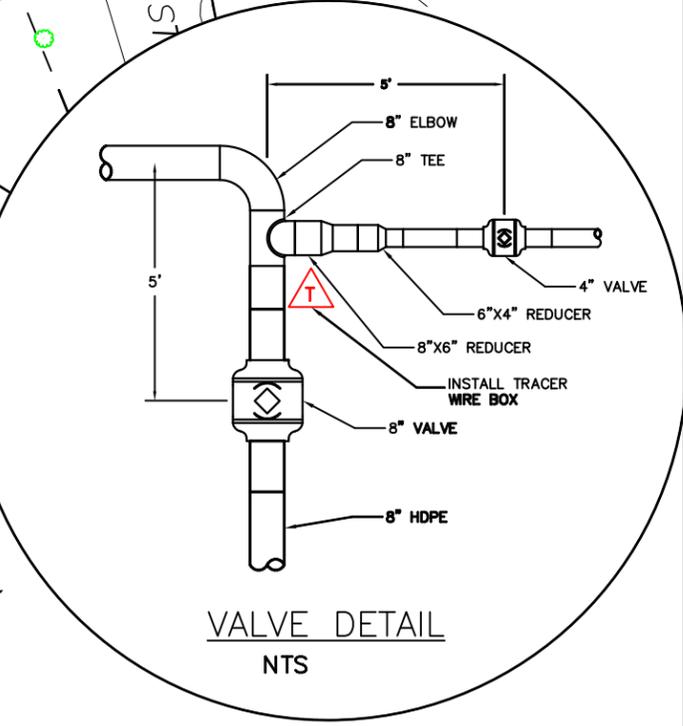
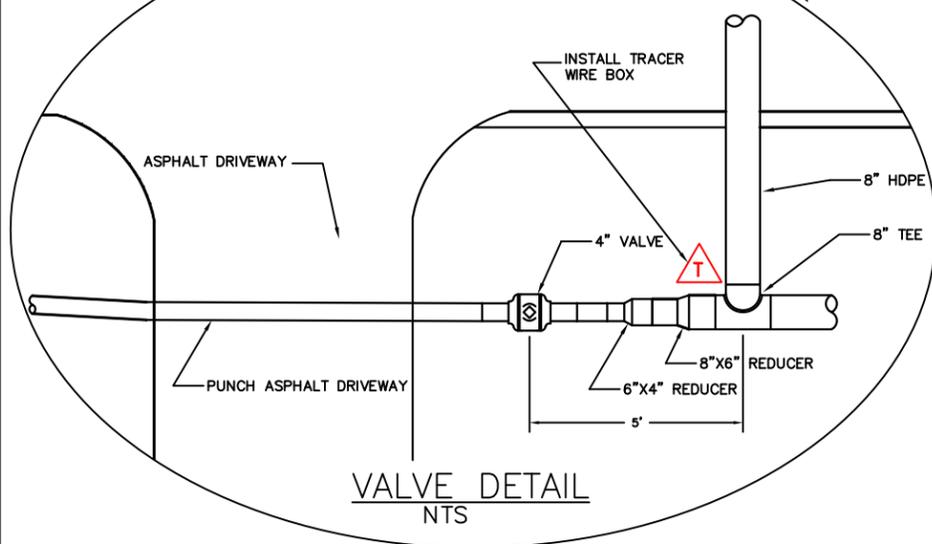
**HAMILTON PIPELINE**

SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 37 OF 86	

MATCH LINE W/SHT41



MATCH LINE W/SHT58



MATCH LINE W/SHT43



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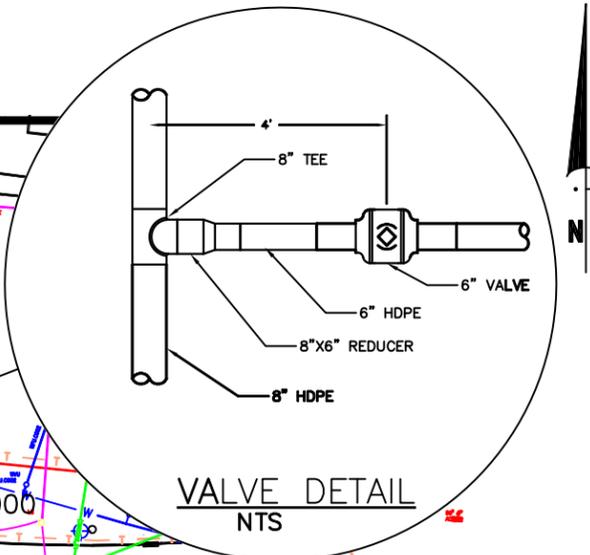
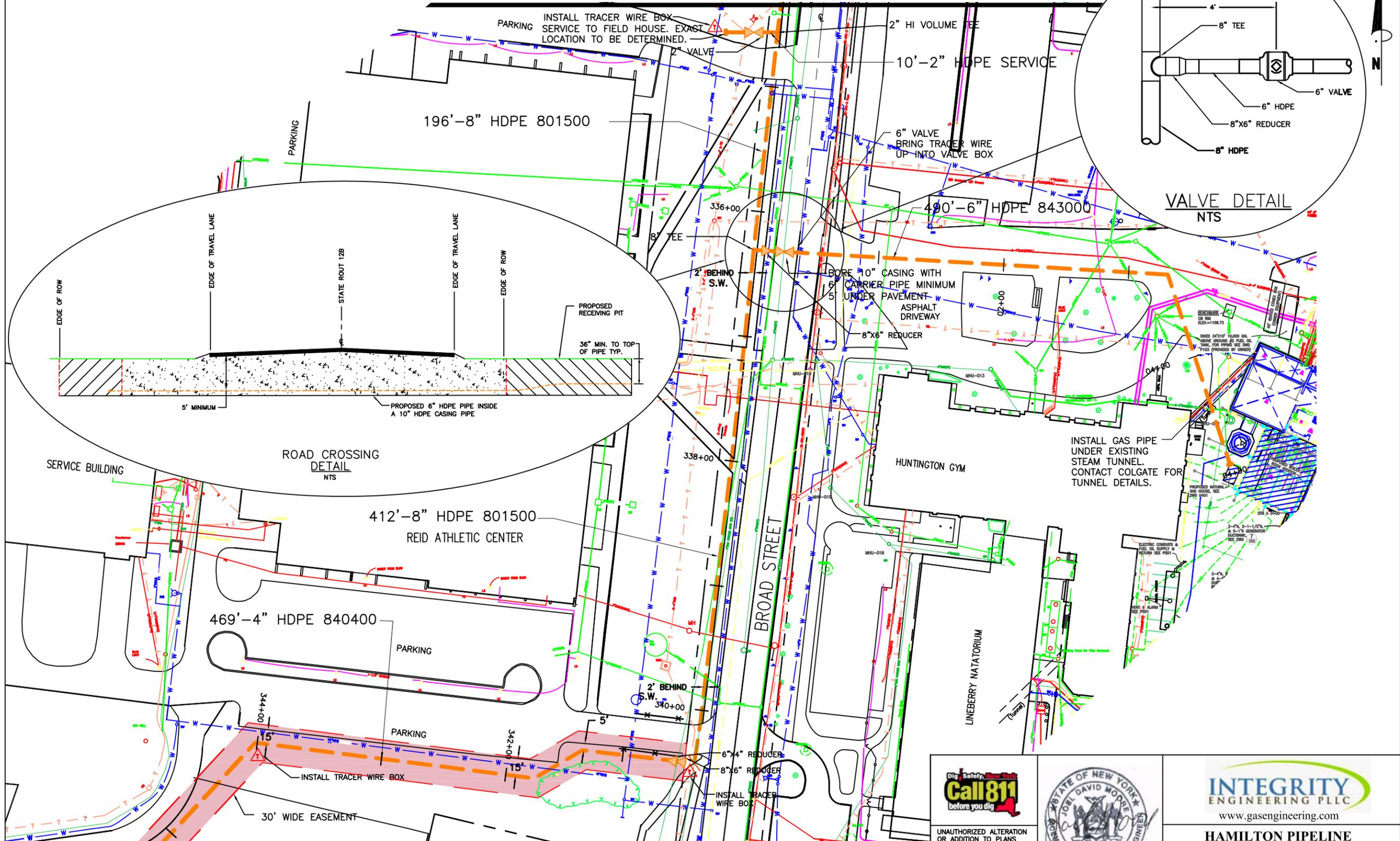


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**HAMILTON STATION**

SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 42 OF 86	

MATCH LINE W/SHT45



MATCH LINE W/SHT47

**Call 811**  
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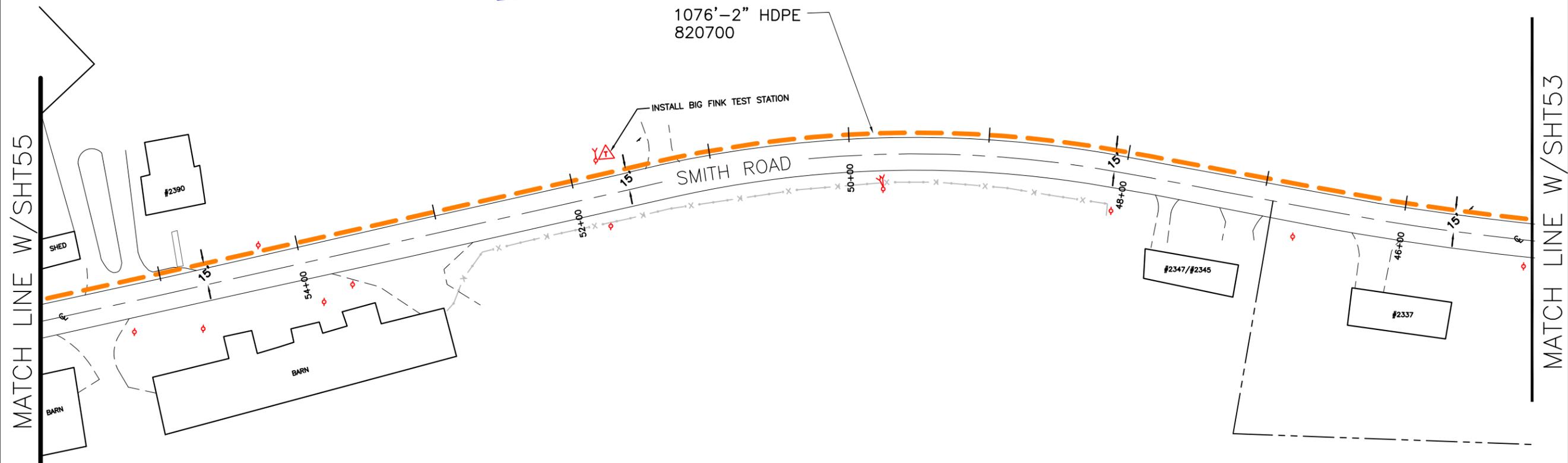
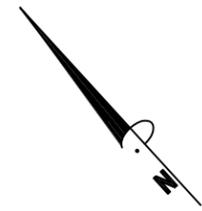
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**HAMILTON PIPELINE**

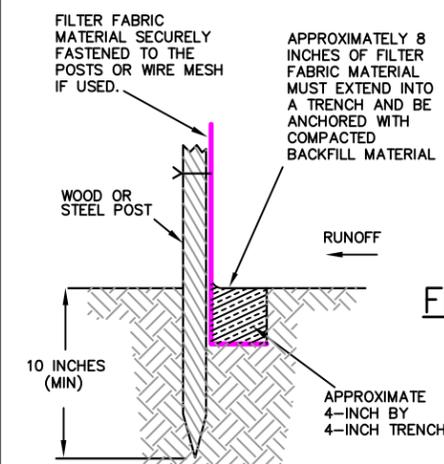
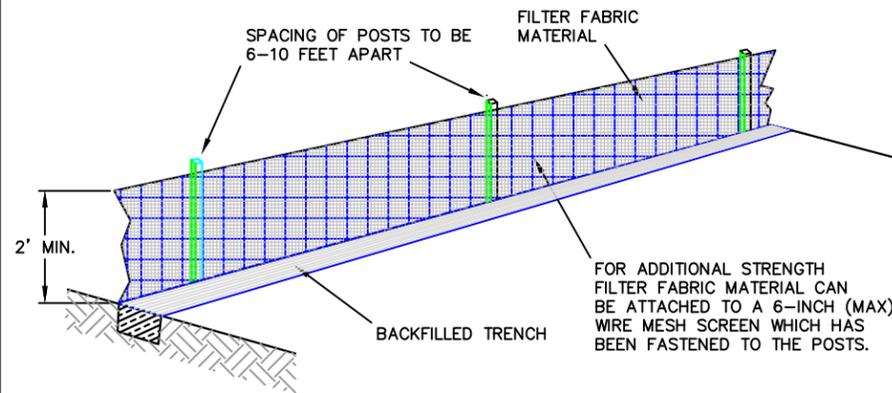
SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 46 OF 86	



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<b>HAMILTON PIPELINE</b>			
SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-02</b>	REV -
SCALE 1"=50'	DATE 11-09-13	SHEET 54 OF 86	

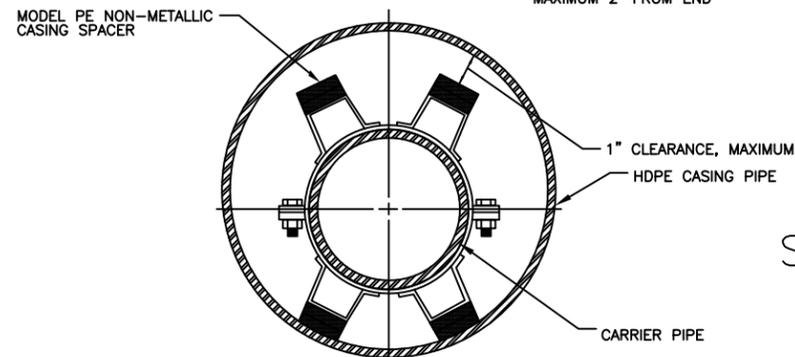
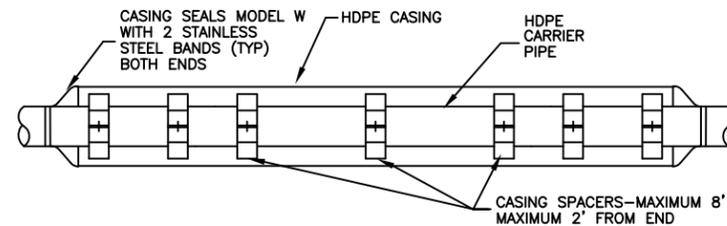
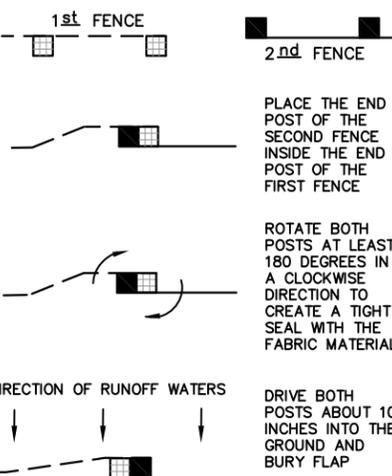
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### INSTALLING A FILTER FABRIC SILT FENCE

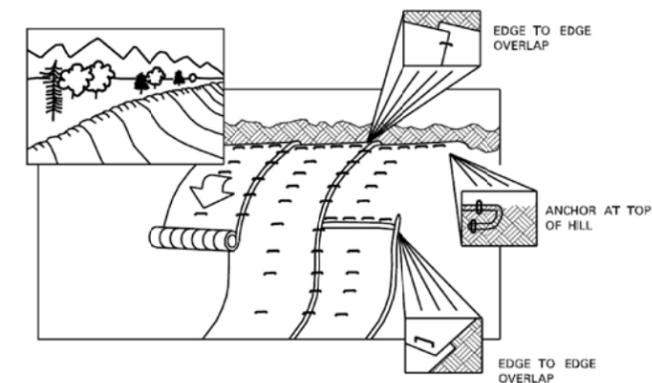
### ATTACHING TWO SILT FENCES



\*NOTE:  
2" ROAD CROSSING NO CASING IS REQUIRED

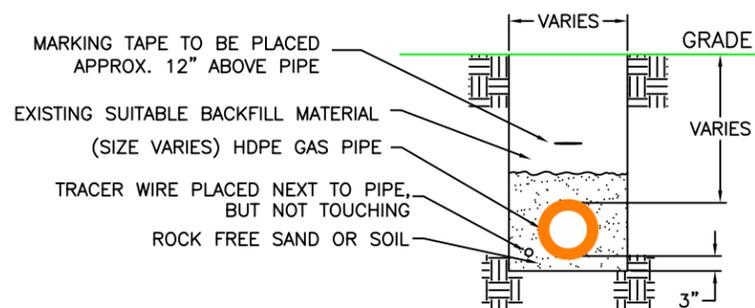
CARRIER HDPE PIPE NOMINAL DIA	CASING HDPE PIPE NOMINAL DIA
4"	8"
6"	10"
8"	12"
10"	14"

### STATE ROAD CROSSING CASING DETAIL

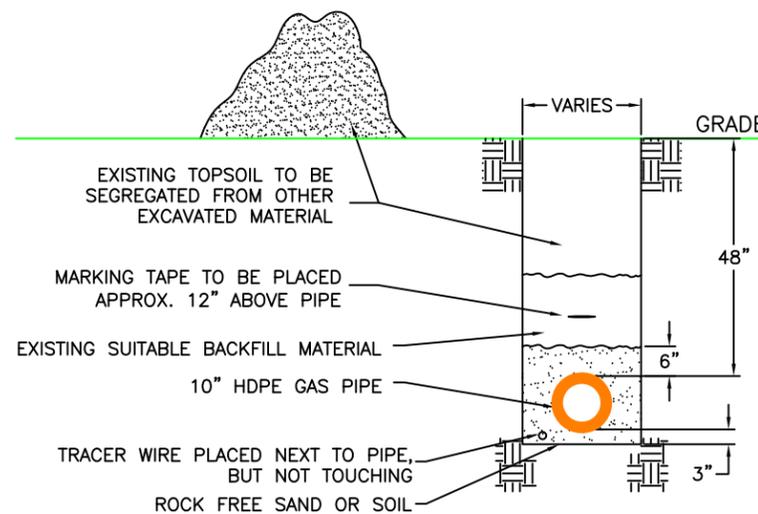


#### NOTES:

- EROSION CONTROL MATTING (BLANKETS) SHALL BE USED AT LOCATIONS IDENTIFIED IN THE PLAN AND/OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
- EROSION CONTROL MATTING SHALL MEET THE REQUIREMENTS SPECIFIED IN THE PLAN AND/OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.
- STAPLES SHALL BE MADE OF 11 GAUGE WIRE, U-SHAPED WITH 6" LEGS AND A 1" CROWN. STAPLES SHALL BE DRIVEN INTO THE GROUND FOR THE FULL LENGTH OF THE STAPLE LEGS.
- MATting SHALL BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS OR AS STATED BELOW:
  - EXTEND TOP OF BLANKET 3 FEET PAST THE UPPER EDGE OF THE SLOPE.
  - ANCHOR ("KEY") THE UPPER EDGE OF THE BLANKET INTO THE SLOPE USING A 6" DEEP TRENCH AND ROLL THE BLANKET DOWN THE HILL, DOUBLE STAPLE EVERY 12" BEFORE BACKFILLING AND COMPACTING TRENCH.
  - AVOID STRETCHING EROSION CONTROL MATTING (LOOSELY) DURING INSTALLATION.
  - BRING MAT ROLL BACK OVER THE TOP OF THE TRENCH AND CONTINUE TO ROLL DOWN SLOPE. STAPLE EVERY 12" WHERE MAT EXITS THE TRENCH AT THE TOP OF THE SLOPE.
  - WHEN BLANKETS ARE SPICED DOWN-SLOPE TO ADJOINING MATS (SLOPE OR STREAM BANK MATS), THE UPPER BLANKET SHALL BE PLACED OVER THE LOWER MAT (SHINGLE STYLE) WITH APPROXIMATELY 6" OF OVERLAP. STAPLE THROUGH THE OVERLAPPED AREA EVERY 12".
  - OVERLAP ADJACENT BLANKETS 6". STAPLE EDGES OF BLANKETS AND CENTER EVERY 36".
- IN LIVESTOCK AREAS WHERE EROSION CONTROL MATTING IS APPLIED TO THE SLOPES, FENCING WILL BE USED IF NECESSARY TO EXCLUDE LIVESTOCK, WITH PERMISSION OF THE LANDOWNER.
- MONITOR WASHOUTS, STAPLE INTEGRITY OR MAT MOVEMENT. REPLACE OR REPAIR AS NECESSARY.



### GAS TRENCH DETAIL



### TYPICAL GAS TRENCH DETAIL AGRICULTURAL AREAS

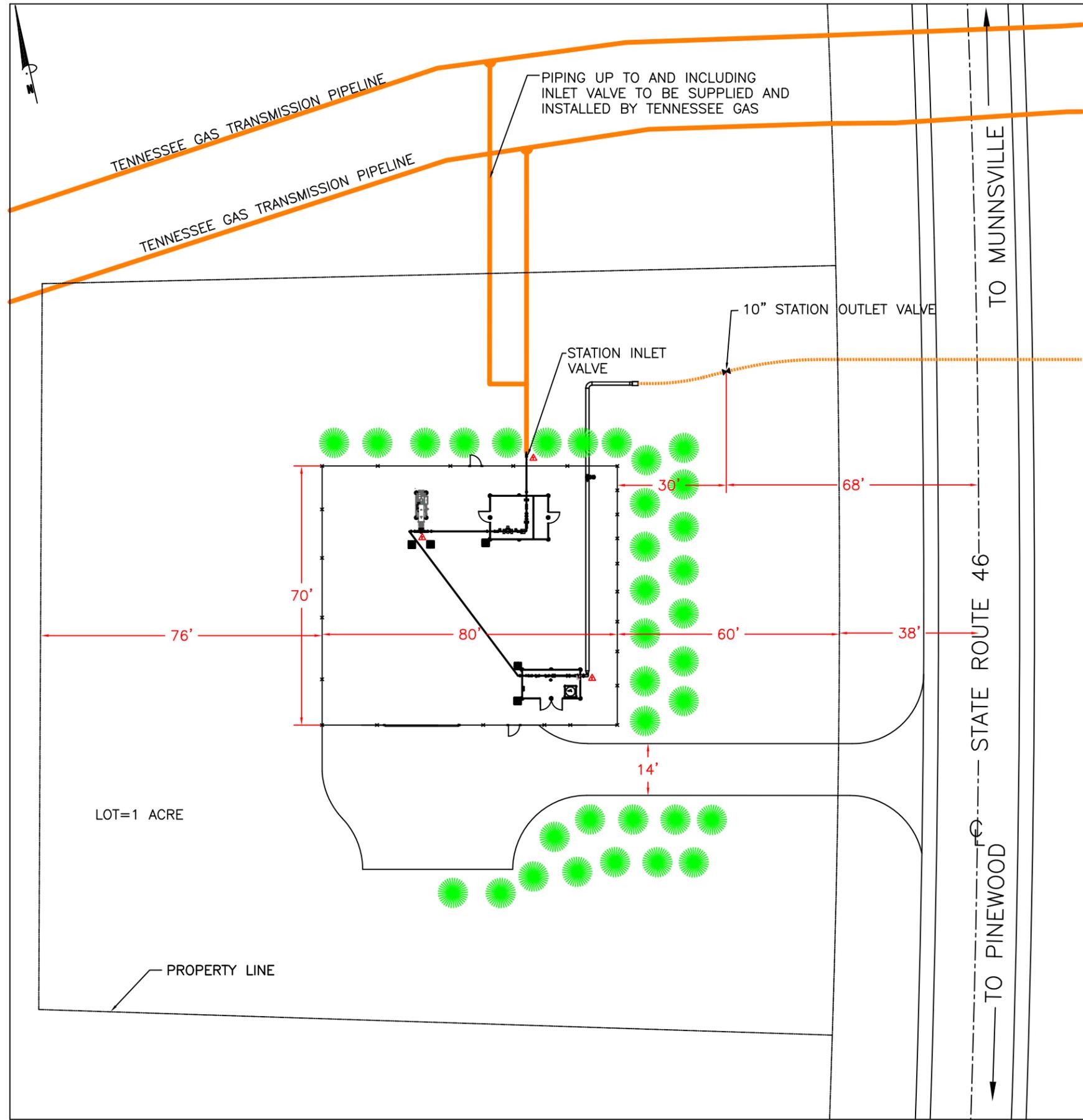


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### HAMILTON PIPELINE

SIZE	FSCM NO.	WORK ORDER NO.	REV
C		13-001-02	-
SCALE	NONE	DATE	11-09-13
		SHEET	71 OF 86



GENERAL NOTES – CITY GATE STATION

1. EXISTING UTILITIES DIMENSIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO PIPE INSTALLATION.
2. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CROSS THE RIGHT OF WAY LIMITS AND/OR PROPERTY LIMITS DEFINED, ONTO PRIVATE PROPERTY.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING PROPERTY LINE SURVEY PINS LOST DURING CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL EROSION AND SILTATION. THIS INCLUDES, BUT IS NOT LIMITED TO, DEWATERING, ERECTION OF BARRICADES, CLEAN-UPS DUE TO INCLEMENT WEATHER, ETC.
5. CONTRACTOR IS RESPONSIBLE (AT HIS OWN EXPENSE) FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES, FACILITIES, CULVERTS, FENCING, CURBS, ROADWAYS, GUIDERAILS, DRIVEWAYS, ETC., CROSSED OR DISTURBED DURING CONSTRUCTION. REPLACEMENT OF THE SAME ITEM TO ITS ORIGINAL CONDITION OR BETTER, WILL BE REQUIRED.
6. ALL GAS PIPE DIMENSIONS ARE CONCEPTUAL ONLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD ROUTING THE PIPE ACCORDING TO EXISTING CONDITIONS. THE VILLAGE SHALL NOT BE HELD RESPONSIBLE FOR INCORRECT DIMENSIONS SHOWN ON THE DRAWINGS, CONFLICTS BETWEEN THE SPECIFICATIONS OR DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE VILLAGE REPRESENTATIVE. THE VILLAGE WILL DETERMINE WHICH IS MORE RELEVANT TO THE AREA IN QUESTION.
7. MAINTAIN A MINIMUM OF 12" CLEARANCE (UNLESS OTHERWISE NOTED), IN ALL DIRECTIONS, BETWEEN THE PIPE AND ANY OTHER EXISTING UTILITIES CROSSED OR PARALLELED.
8. MINIMUM DEPTH OF COVER SHALL BE 36" ABOVE TOP OF PIPE, UNDER NORMAL CONDITIONS, INSIDE THE FENCING PERIMETER.
9. ALL WELDING SHALL BE PERFORMED IN STRICT ACCORDANCE WITH API 1104, NYCRR255. ONLY QUALIFIED WELDERS WILL BE ALLOWED TO PERFORM WELD ACTIVITIES.
10. ALL BUTT WELDS WILL BE 100% X-RAYED BY A VILLAGE APPROVED RADIOGRAPHY TESTING COMPANY.
11. CONFLICTS OR AMBIGUITY BETWEEN CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE VILLAGE REPRESENTATIVE. THE VILLAGE WILL DETERMINE WHICH IS THE MOST PERTINENT TO THE AREA IN QUESTION.
12. CONTRACTORS SHALL COAT AND WRAP ALL ABOVE GROUND PIPING (UP TO 6" ABOVE GRADE) AND PAINT ALL ABOVE GRADE PIPE WITH AN APPROVED PAINT.
13. CONTRACTOR TO REMOVE TOP SOIL FROM THE SITE AND REPLACE WITH AN APPROVED FILL MATERIAL. THEN TOP WITH FILTER FABRIC AND A MINIMUM OF 6" OF CRUSHER RUN TO A SLOPING GRADE ON THE OUTSIDE OF THE FENCE LINE. CONTRACTOR TO FURNISH AND INSTALL.
14. CONTRACTOR TO INSTALL AN INSULATING FULL FACE GASKET AT STATION INLET VALVE FLANGE, INLET & OUTLET OF METER BUILDING, INLET & OUTLET HEATER, AND INLET & OUTLET OF REGULATOR BUILDING.
15. ALL BELOW GRADE PIPING IS TO BE SAND PADDED 3" BELOW AND 6" ABOVE PIPE.
16. CONTRACTOR TO FURNISH AND INSTALL A CORRUGATED SLUCE PIPE AS REQUIRED BY NYSDOT DRIVEWAY PERMIT.
17. ANY PLANTINGS OUTSIDE OF THE FENCE WILL BE SUPPLIED AND INSTALLED UNDER SEPARATE CONTRACT.

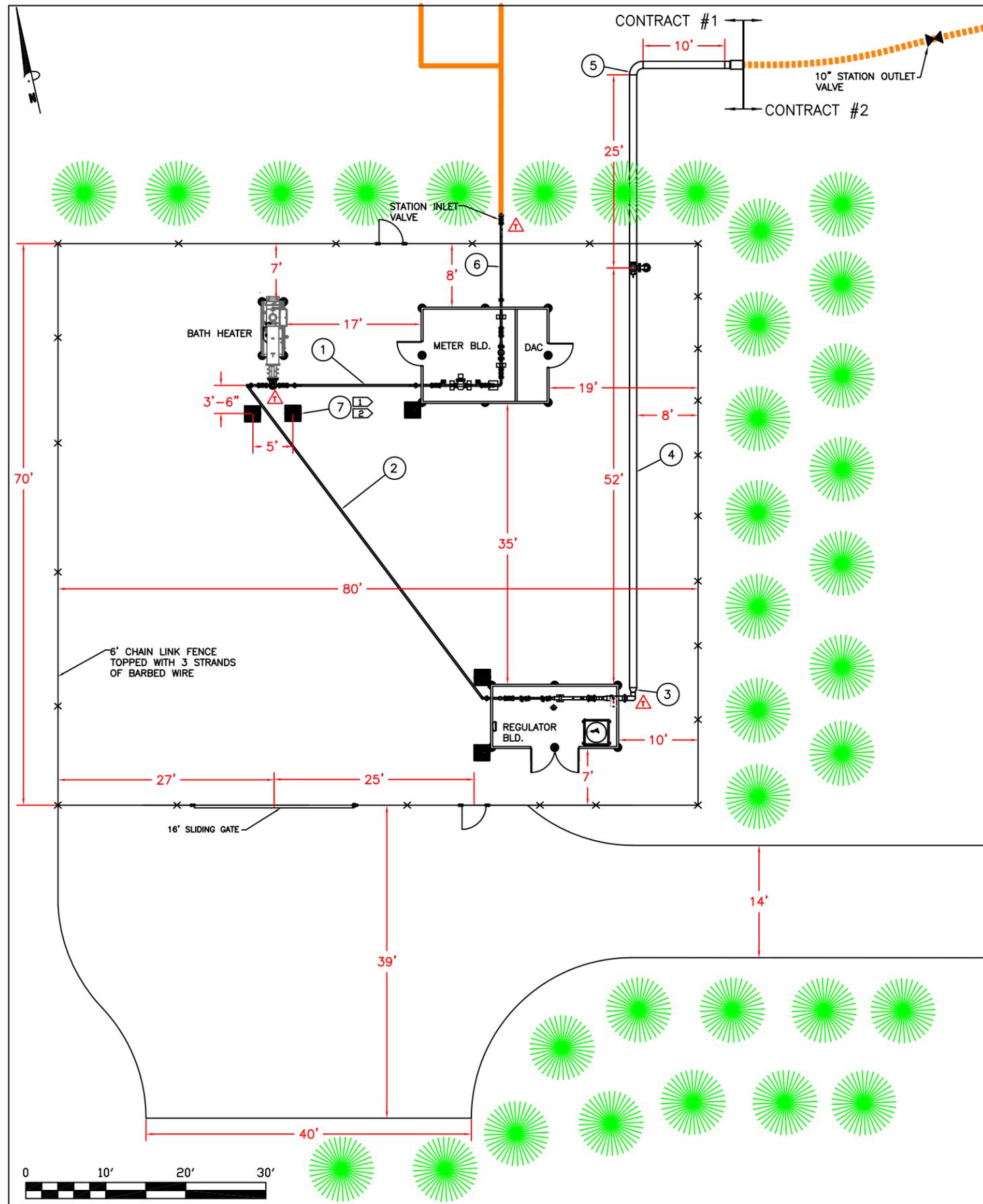


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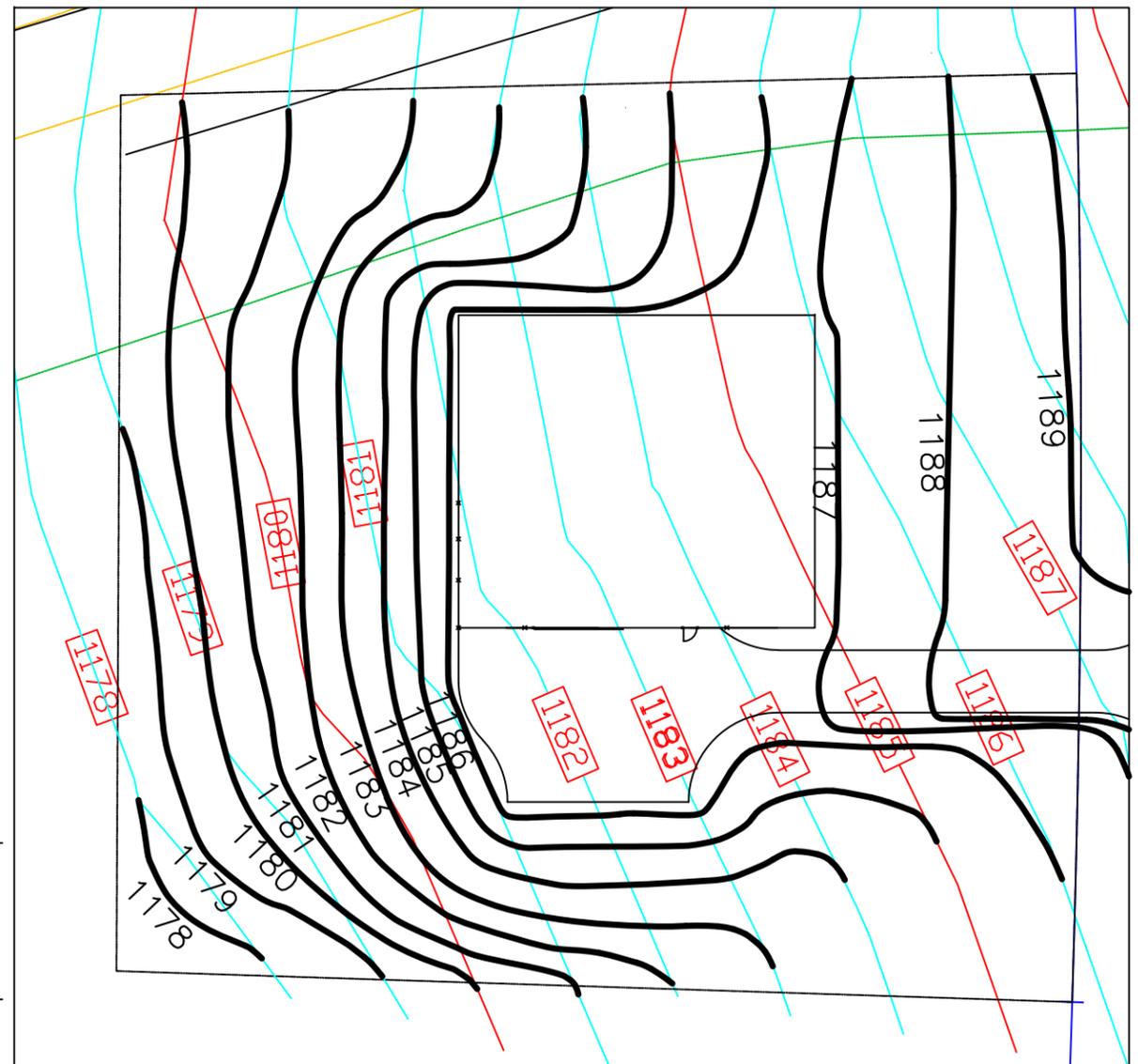
HAMILTON PIPELINE

SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-05</b>	REV <b>-</b>
SCALE 1"=20'	DATE 11-09-13	SHEET 78 OF 86	



BILL OF MATERIALS				
ITEM	QTY.	SIZE	CLASS	DESCRIPTION
1	16FT	2"	XS	PIPE, XS, .218, X52, SMLS, FBE
2	55FT	2"	XS	PIPE, XS, .218, X52, SMLS, FBE
3	1 EA	6"X10"	STD	REDUCER, STD, CONCENTRIC
4	87FT	10"	STD	PIPE, STD, .365 X52, SMLS, FBE
5	1 EA	10"	STD	ELL, STD, LR, 90°
6	7FT	2"	XS	PIPE, XS, .218, X52, SMLS, FBE
7	5	4"	N/A	BOLLARD, 4" PIPE, CONCRETE,

NOTE:  
 1 SEE DETAILS FOR BOLLARDS ON SHT. 85  
 2 NON DIMENSIONED BOLLARDS PLACE APPROXIMATELY AS SHOWN



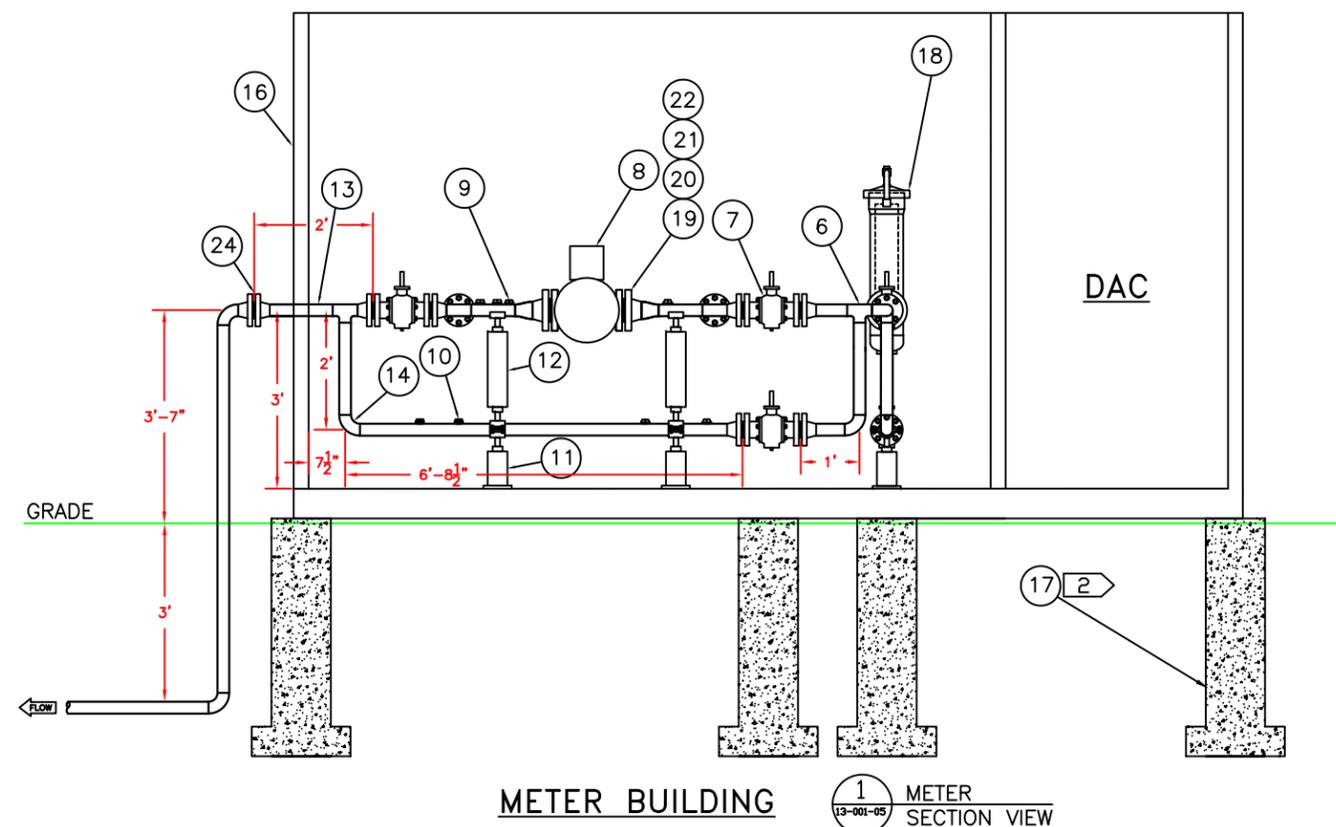
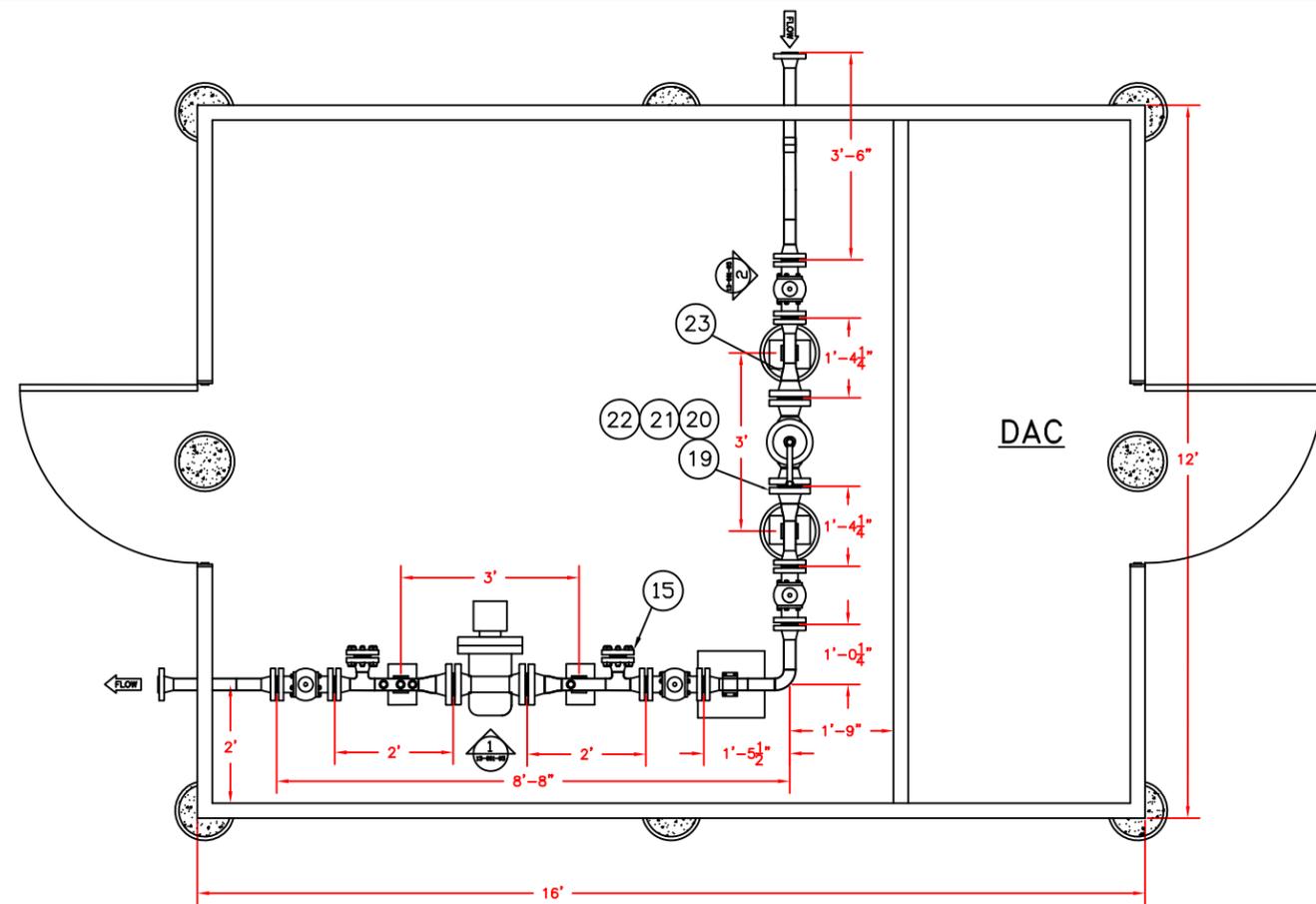
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**HAMILTON PIPELINE**

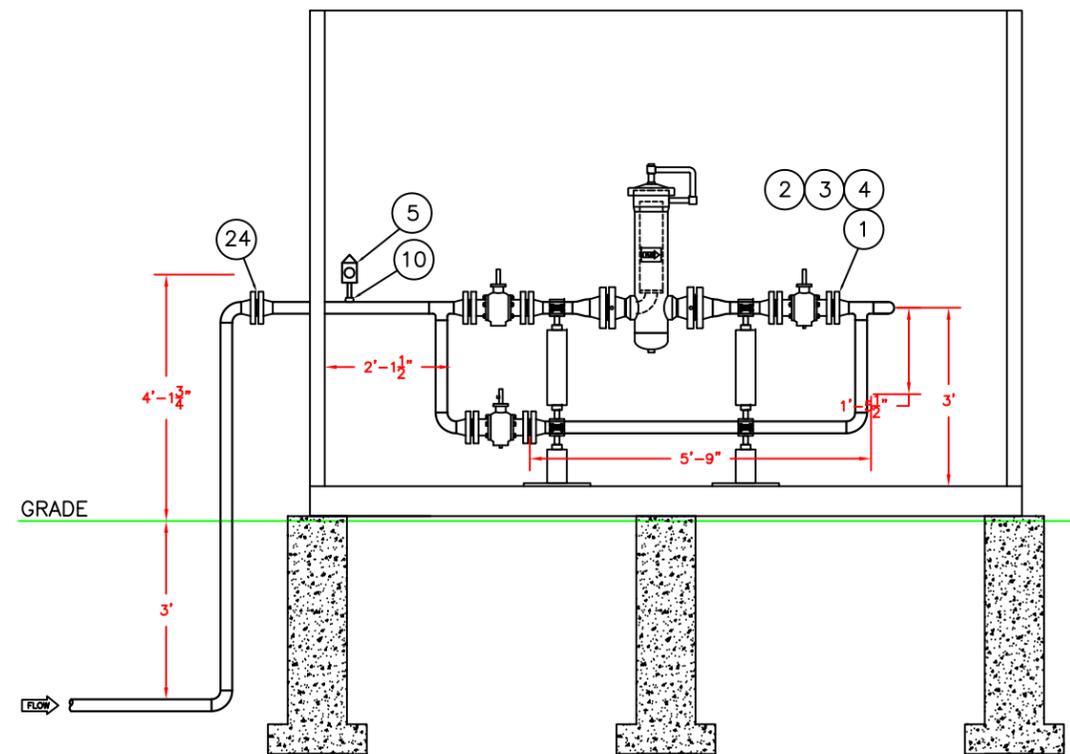
SIZE	FSCM NO.	WORK ORDER NO.	REV
C		13-001-05	-
SCALE	1"=10'	DATE	12-30-13
		SHEET	79 OF 86



**1** METER SECTION VIEW  
13-001-05

BILL OF MATERIALS				
ITEM	QTY.	SIZE	CLASS	DESCRIPTION
1	18	2"	600#	FLANGE, WLDNK RF
2	14	2"	600#	GASKET, SPIRAL WOUND W/ FLEXIBLE GRAPHITE
3	128	5/8"	N/A	BOLT STUD, ASTM A193, GRADE B7, 5/8" X 4-1/4"
4	256	5/8"	N/A	NUT, HVY, HEX, ASTM A194, GRADE 2H, 5/8" DIA
5	1	-	N/A	PRESSURE TRANSDUCER, ANALOG
6	4	2"	XS	TEE, XS, BW
7	6	2"	600#	VALVE, BALL, RF, RP
8	1	3"	N/A	7M DRESSER ROOTS B3-HPC 3" ROTARY METER
9	7	3/4"	N/A	THREAD-0-LET, WELD 3/4" X 2"
10	2	1"	N/A	THREAD-0-LET, WELD 1" X 2"
11	4	2"	N/A	PIPE SUPPORT, W / BASE
12	4	2"	N/A	PIPE SUPPORT, DOUBLE ENDS
13	38FT	2"	XS	PIPE, XS, .218, X52, SMLS, BARE
14	9	2"	XS	ELBOW, XS, LR, BW, 90°
15	2	2"	600#	FLANGE, WLDNK, RF, BLIND
16	1	6"X12"	N/A	BUILDING, METAL PARKLINE
17	10	12"	N/A	SONO TUBE
18	1	3"	600#	FILTER, RF, COALESCING APOLLO
19	4	3"	600#	FLANGE, WLDNK, RF
20	4	3"	600#	GASKET, SPIRAL WOUND W/ FLEXIBLE GRAPHITE
21	32	3/4"	N/A	STUD, ASTM A193, GRADE B7, 3/4" X 5"
22	64	3/4"	N/A	NUT, HVY, HEX, ASTM A194, GRADE 2H, 3/4" DIA
23	4	3"X2"	XS	REDUCER, XS, BW, CONCENTRIC
24	2	2"	600#	GASKET, INSULATING, FLANGE KIT

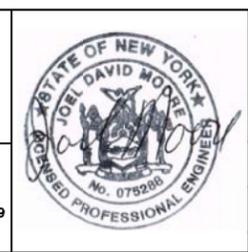
- NOTE:
1. ALL FLANGE DIMENSIONS ARE TO THE FACE OF THE FLANGE
  2. SEE DETAILS FOR SONOTUBES ON SHT. 85
  3. ALL THREAD-0-LETS TO BE TAPPED WITH 3/4" OR 1" SS QUARTER TURN VALVE WITH SS PLUGS.
  4. SEE GROUNDING DETAILS ON SHEET #83.



**2** COALESCING FILTER SECTION VIEW  
13-001-05

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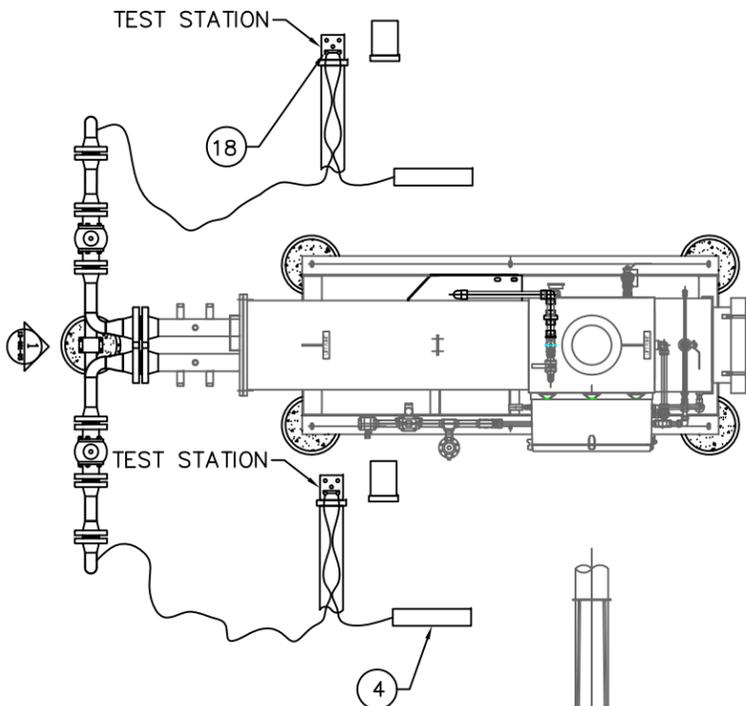


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**HAMILTON PIPELINE**

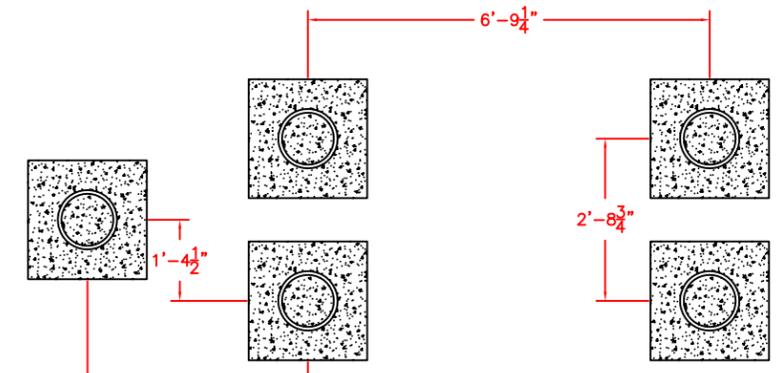
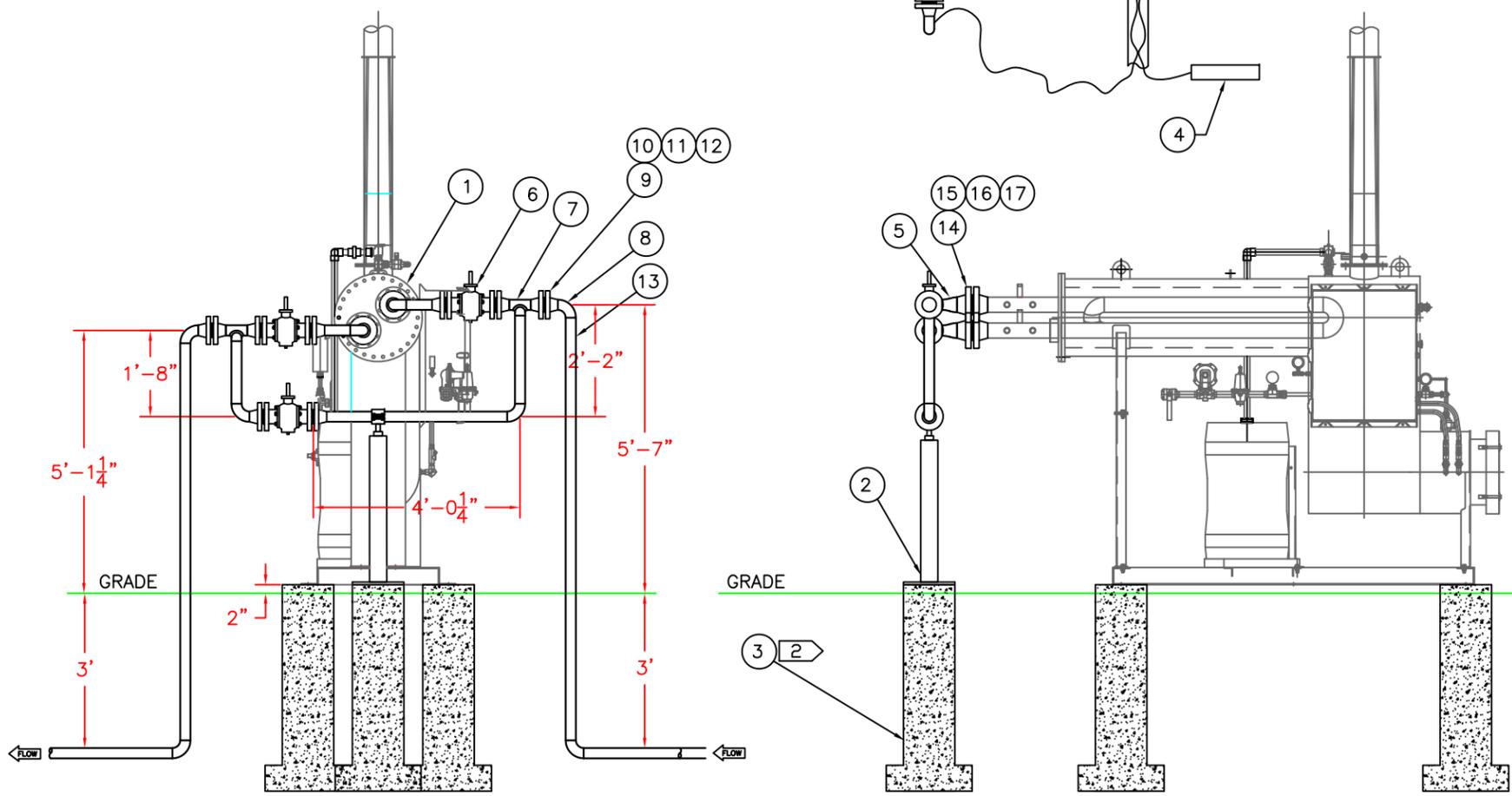
SIZE <b>C</b>	FSCM NO.	WORK ORDER NO. <b>13-001-05</b>	REV -
SCALE 1"=24"	DATE 11-09-13	SHEET 81 OF 86	





BILL OF MATERIALS				
ITEM	QTY.	SIZE	CLASS	DESCRIPTION
1	1			HEATER, CWT, WATER BATH, MODEL, 140
2	1			PIPE SUPPORT, W / BASE
3	5	12"		SONO TUBE
4	2	50 LB	N/A	ANODE, MAGNESIUM, 50#
5	2	2"x3"	XS	REDUCER, XS, BW, CONCENTRIC
6	3	2"	600#	VALVE, BALL, RF, RP
7	2	2"	XS	TEE, XS, BW
8	6	2"	XS	ELBOW, XS, LR, BW, 90°
9	10	2"	600#	FLANGE, WLDNK, RF
10	8	2"	600#	SPIRAL WOUND W/ FLEXIBLE GRAPHITE
11	64	5/8"		BOLT STUD, ASTM A193, GRADE B7, 5/8" X 4-1/4"
12	128	5/8"		NUT, HVY, HEX, ASTM A194, GRADE 2H, 5/8" DIA
13	30FT	2"	XS	PIPE, XS, .218, X52, SMLS, FBE
14	2	3"	600#	FLANGE, WLDNK, RF
15	2	3"	600#	GASKET, INSULATING FLANGE KIT
16	16	3/4"		STUD, ASTM A193, GRADE B7, 3/4" X 5"
17	32	3/4"		NUT, HVY, HEX, ASTM A194, GRADE 2H, 3/4" DIA
18	2	N/A	N/A	TEST STATION

NOTE:  
 1. ALL FLANGE DIMENSIONS ARE TO THE FACE OF THE FLANGE  
 2. SEE DETAILS FOR SONOTUBES ON SHT. 85



HEATER FOUNDATION PLAN

1 FRONT VIEW  
13-001-05

BATH HEATER



**Call 811**  
before you dig

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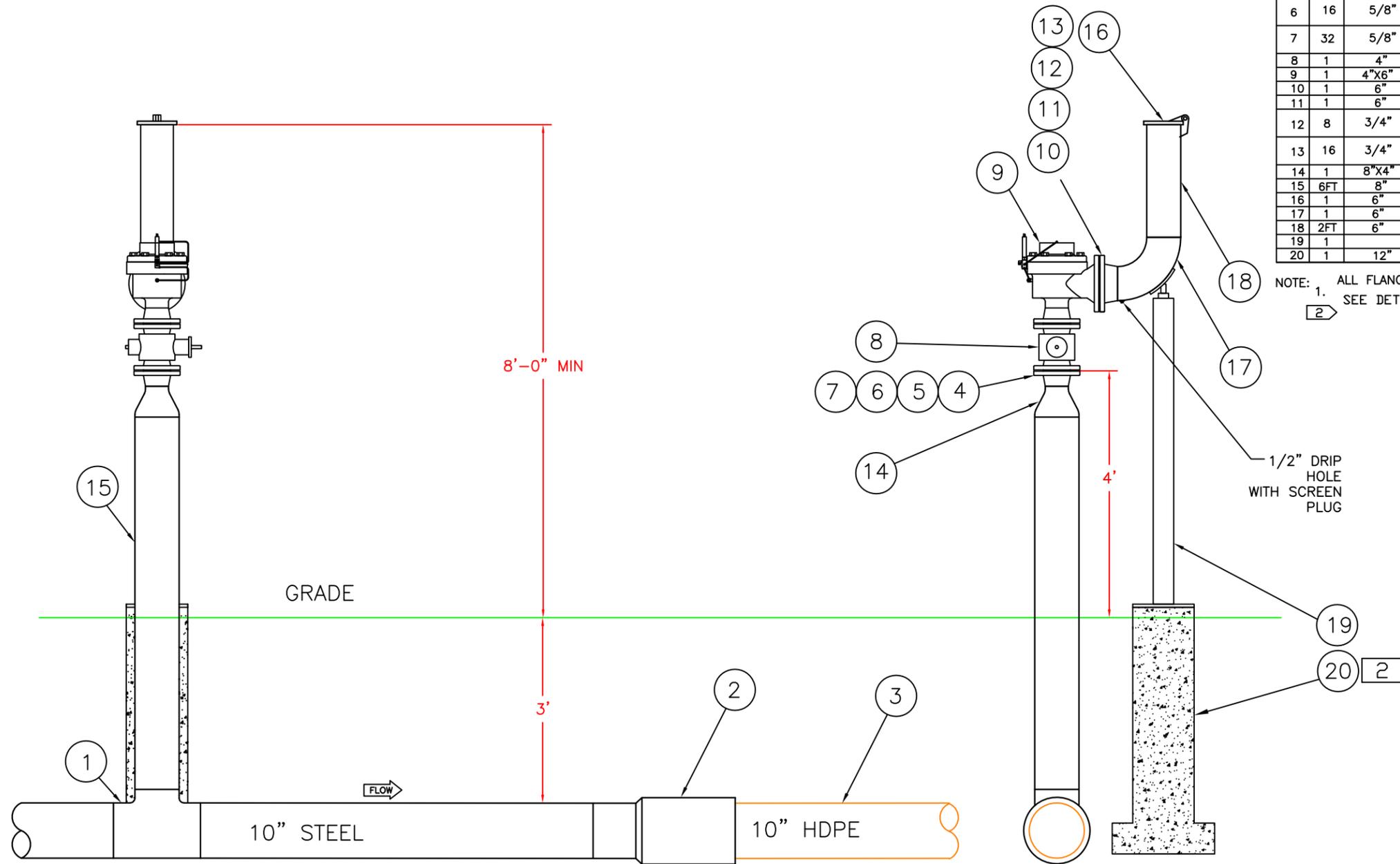
**HAMILTON PIPELINE**

SIZE	FSCM NO.	WORK ORDER NO.	REV
C		13-001-05	-
SCALE	DATE	SHEET	
1"=24"	11-09-13	82 OF 86	

BILL OF MATERIALS

ITEM	QTY.	SIZE	CLASS	DESCRIPTION
1	1	10"x8"	STD	TEE, REDUCER, STD, BW
2	1	10"x10"	N/A	10" ST, STD WE X 10" POLY SDR11 TRANSITION FITTING
3	TBD	10"	N/A	PIPE, POLY, HDPE, SDR11
4	1	4"	150#	FLANGE, WLDNK, RF
5	2	4"	150#	GASKET, RING, CLASS 150#
6	16	5/8"	N/A	STUD, ASTM A193, GRADE B7, 5/8" X 3-3/4"
7	32	5/8"	N/A	NUT, HVY, HEX, ASTM A194, GRADE 2H, 5/8" DIA
8	1	4"	150#	VALVE BALL, 150#, FULL PORT, WITH LOCKING COLLAR
9	1	4"x6"	150#	SAFETY RELIEF VALVE 4" X 6", 150#
10	1	6"	150#	FLANGE, WLDNK, RF
11	1	6"	150#	GASKET, RING, CLASS 150#
12	8	3/4"		STUD, ASTM A193, GRADE B7, 3/4" X 4"
13	16	3/4"		NUT, HVY, HEX, ASTM A194, GRADE 2H, 3/4" DIA
14	1	8"x4"	STD	REDUCER, BW, CONCENTRIC
15	6FT	8"	N/A	PIPE, .250, X52, SMLS, FBE
16	1	6"	N/A	CAP, VENT, WEATHER, STEEL
17	1	6"	STD	ELBOW, LG, BW, 90°
18	2FT	6"	STD	PIPE, .280, SMLS, BARE
19	1	N/A	N/A	PIPE SUPPORT
20	1	12"	N/A	SONO TUBE

NOTE: 1. ALL FLANGE DIMENSIONS ARE TO THE FACE OF THE FLANGE  
 2. SEE DETAILS FOR SONOTUBES ON SHT. 85

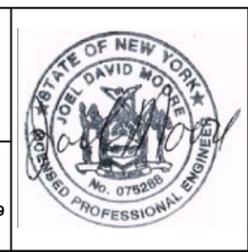


RELIEF VALVE



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**HAMILTON PIPELINE**

SIZE	FSCM NO.	WORK ORDER NO.	REV
C		13-001-05	-
SCALE	3/4"=1'	DATE	12-30-13
		SHEET	84 OF 86