

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition to resolve territorial dispute in)
Sumter County and/or Lake County with)
City of Leesburg and/or South Sumter Gas)
Company, LLC, by Peoples Gas System)
_____)

Docket No. 20180055

COUNTER PETITION OF THE CITY OF LEESBURG

The City of Leesburg (“Leesburg” or “City”), by and through its undersigned counsel and pursuant to Section 366.04(3)(b), Florida Statutes, and Rule 25-7.0472, Florida Administrative Code, files this counter-petition and asks the Commission to resolve a territorial dispute between the City and Peoples Gas System (“Peoples”) as detailed herein. The City states and alleges the following:

1. Name and address of Cross-Petitioner. The name and address of the Cross-Petitioner is:

City of Leesburg
501 West Meadow Street
P.O. Box 490630
Leesburg, Florida 34749

2. Petitioner’s representatives. Copies of all pleadings, notices and orders in this docket should be provided to:

Jon C. Moyle, Jr.
Karen A. Putnal
Moyle Law Firm, P.A.
118 North Gadsden Street
Tallahassee, Florida 32301
Telephone: (850) 681-3828
Facsimile: (850) 681-8788
jmoyle@moylelaw.com
kputnal@moylelaw.com

Jack Rogers
City of Leesburg
306 S. 6th Street
Leesburg, Florida 34748
Jack.roger@leesburgflorida.gov

3. The Commission has jurisdiction as set forth in section 366.04(3)(b), Florida Statutes, to resolve any territorial dispute involving service areas between natural gas utilities. When deciding territorial disputes, the Commission may consider the ability of the utilities to expand services within their own capabilities and the nature of the area involved, including population, the degree of urbanization of the area, its proximity to other urban areas, and the present and reasonably foreseeable future requirements of the area for other utility services. The Commission may consider other relevant matters as well, such as existing infrastructure in proximity to the disputed area or facility.

4. Leesburg is a Florida municipality which operates a natural gas distribution system in portions of Lake and Sumter counties. Leesburg is a “natural gas utility” as defined in Section 366.04(3)(c), Florida Statutes. Since 1959, the City has provided natural gas service to its customers. Presently, the City distributes natural gas to nearly 12,000 customers both within and outside its corporate boundary limits. The City has approximately 240 miles of distribution lines installed and operating to provide its customers with natural gas. Leesburg is subject to the Commission’s statutory jurisdiction to resolve territorial disputes.

5. Peoples is a natural gas local distribution company (“LDC”) providing sales and transportation delivery of natural gas throughout many areas of the State of Florida, including portions of Sumter County. Peoples is a “natural gas utility” as defined in Section 366.04(3)(c), Florida Statutes. Peoples is subject to the Commission’s statutory jurisdiction to resolve territorial disputes.

The American Cement Facility

6. The American Cement Facility is a large industrial facility located on County Road (CR) 470 in Sumter County which manufactures cement.

7. Peoples has filed a utility/right of way utilization permit with Sumter County on June 22, 2018 in which it seeks to install a 8” steel main gas main along CR 470 in Sumter County, eastward from the intersection of CR 470 and US 301. The application states that the construction start date will be July 23, 2018. This gas line will be approximately 2 miles and is being installed ostensibly to serve the American Cement facility. Sheets number 4 and 14 of the Right of Way Permit application show the proposed gas main stopping in front of the American Cement facility. Peoples is actively taking steps to try to provide natural gas service American Cement. A copy of the Peoples’ pending right of way application is attached as Exhibit 1 to this counter-petition.

8. Peoples is racing to serve American Cement, notwithstanding its pending petition before this Commission to resolve a territorial dispute with Leesburg and that Leesburg is better positioned than Peoples to serve American Cement effectively, efficiently and cost-effectively.

9. The Commission should not permit Peoples to serve American Cement, as the City is much better positioned to serve the American Cement facility. Specifically, the City already has in place natural gas distribution lines on CR 470, the very road for which Peoples is seeking a permit to install an additional gas main line.

10. The City provides natural gas service to the Coleman federal prison, and has since 1994. The Coleman federal prison, which also fronts CR 470, is 7/10 of a mile to the east of the American Cement facility. Peoples seeks needlessly to burden the right-of-way along CR 470 with approximately two miles of unnecessary natural gas infrastructure to possibly serve American Cement, only in the event that this Commission’s final order does not award this territory to the City.

11. The map attached hereto as Exhibit B shows Leesburg's existing natural gas infrastructure which serves the Coleman federal prison, the Peoples existing natural gas infrastructure in the same general area, and the location of the American Cement Plant. The map clearly suggests that the City rather than People's is best able to serve American Cement in the most efficient, cost-effective manner, and points out in significant part the nature of the current dispute between the City and Peoples related to natural gas service to the American Cement facility.

12. The territorial dispute set forth herein exists because the natural gas facilities that Peoples seeks to construct to serve American Cement would uneconomically duplicate existing natural gas facilities currently operated by the City that are much closer to the American Cement facility. The City is better positioned to more economically and efficiently serve the American Cement facility, and will do so promptly should the Commission award Leesburg the territory adjacent to and abutting Leesburg's current customer, the Coleman federal prison.

13. The Commission should resolve the territorial dispute identified by the City's cross-petition by determining that the City is best-suited to provide natural gas service to the American Cement facility as depicted on the map attached Exhibit 2. In sum, the City can provide more cost effective, superior natural gas service to American Cement than Peoples.

14. Based on the application of relevant criteria and considerations, including, but not limited to the considerations set forth in Rule 25-7.0472, Florida Administrative Code, it is in the public interest for the City to serve the American Cement facility as depicted on Exhibit 2 to this counter-petition rather than Peoples.

WHEREFORE, for the reasons set forth in this petition, the City seeks an order directing that the City of Leesburg is better-suited to serve the American Cement facility in question rather than Peoples, and awarding such territory to the City.

/s/ Jon C. Moyle

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Karen A. Putnal
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Telephone: (850)681-3828
Facsimile: (850)681-8788
jmoyle@moylelaw.com

Attorneys for City of Leesburg

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing was furnished to the following by Electronic Mail, on this 5th day of July, 2018:

Adria Harper
Walter Trierweiler
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Tallahassee, FL 32399-0850
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aharper@psc.state.fl.us

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Orlando Florida 32801
tnorman@broadandcassel.com

/s/ Jon C. Moyle

Jon C. Moyle, Jr.

Sumter County Public Works Department

319 E. Anderson Avenue
Bushnell, FL 33513-6152
(352) 689-4400

UTILITY/RIGHT-OF-WAY UTILIZATION PERMIT

Date: June 22, 2018 Permit No. _____
Permittee: TECO Peoples Gas Road: CR 470 County: Sumter
Email: bstout@tecoenergy.com Phone No: (407) 420-2678
Permittee Address: 600 W. Robinson Street, Orlando FL 32801
Site Address: CR 470, from US 301 to west of NE 50th Way
Property Owner: Sumter County Phone No: _____
Owner Address: _____
Proposed Use: Install proposed 8" steel gas main along CR 470

Start Date: 7/23/18 End Date: 8/30/18 Proposed Hours of Operation: 8am - 5pm
Directions to Site from Nearest Intersection: just east of the intersection with CR 301
(See attached plans)

1. Proposed use is within the corporate limits of a municipality or community development district (CDD).
Yes No Name of municipality: _____
Name of CDD: _____

2. Applicant declares that prior to filing this application he has ascertained the location of all existing utilities, both aerial as well as underground by employing the utility locating service, 811, and has attached a copy of the utility report.

List below all utility providers/municipalities/CDD's notified:
Design Ticket 008700859

Bright House Networks, Duke Energy, MCI, Centurylink, Sumter Electric Cooperative

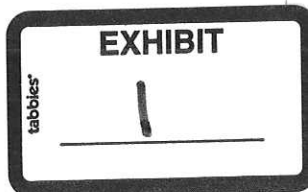
3. State or Interstate right-of-way is involved Yes No

4. If any law enforcement services are to be utilized for the purposes of the proposed use, explain below:
N/A

Official Contact (name & title): Bruce Stout - Gas Design Manager
Department: TECO Peoples Gas Phone: (407) 420-2678

5. It is expressly stipulated that this permit is a license for permissive use only and that the placing of facilities upon public property pursuant to this permit shall not operate to create or vest any property right in said holder.

6. Whenever necessary for the construction, repair, improvement, maintenance, safe and efficient operation, alteration or relocation of all, or any portion of said highway as determined by the County Director of Public Works and/or his employees, any or all of said poles, wires, pipes, conduits, cables or other facilities and appurtenances authorized hereunder, shall be removed from said highway, or reset or relocated thereon as required by the County, and at the expense of the permittee.



Sumter County Public Works Department

Right-Of-Way Utilization Permit Page 2

7. All work shall meet County standards and The Florida Department of Transportation's "Utility Accommodation Manual". All work will be subject to the approval of the Sumter County Director of Public Works and/ or his employees.
8. All materials and equipment shall be subject to inspection by the County's Director of Public Works and/or his employees.
9. All County property and right-of-way shall be restored to its original condition as far as practical, in keeping with County specifications and/or the Florida Department of Transportation's "Utility Accommodation Manual" and in a manner satisfactory to the County. Open cuts of road and shoulder pavements are not allowed unless specifically approved by the Director of Public Works. If an open cut is approved it must conform to Pages 4-6 of this permit. Jack and bores shall conform to page 6. Other types of directional drilling between roadways will be submitted for approval.
10. All installations shall conform to the edition of the Florida Department of Transportation's "Utility Accommodations Manual" which is in effect on the date the permit is approved.
11. The permittee shall commence actual construction in good faith within ninety (90) days from the date of said permit approval and shall be completed within 2 days.
12. The proposed use shall not interfere with the property and rights of a prior permittee.
13. The attached sketch or plans, covering details of this proposed use, shall be made a part of this permit. This approved permit with plans and Maintenance of Traffic (MOT) shall be on site at all times. Use FDOT Design Standards 600 Index Section as applicable.
14. Any material (signs, flyers, etc.) advertising proposed use must be included for review. Details for advertisement methods must be detailed below (Include website address if one is to be used):

15. A notarized letter from the property owner authorizing the proposed use for the dates specified above must be provided if the permittee is not the property owner.
16. It is understood and agreed that the rights and privileges herein set out are granted only to the extent of the County's right, title and interest in the land to be entered upon and used by the holder, and the holder will, at all times, assume all risk of and indemnify, defend and save harmless the County of Sumter and the Sumter County Public Works Department and Director of Public Works from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercises by said holder of the aforesaid rights and privileges. During use, all safety regulations of the County and/or the Florida Department of Transportation's "Roadway and Traffic Design Standards" shall be observed and the holder must take such measures, including placing and display of safety devices, as may be necessary in order to safely conduct the public through the project area in accordance with the County's safety regulations and/or the Florida Department of Transportation's "Roadway and Traffic Design Standards".
17. Approval of this application does not waive any other applicable provisions of the Sumter County Land Development Code, Comprehensive Plan, or Utility Code which are not part of the request for this application. Nor does approval waive any applicable Florida Statutes, Florida Building Code, Florida Fire Prevention Code, or any other applicable laws, rules, or ordinances, whether federal, state or local. The applicant has the obligation and responsibility to be informed of and be in compliance with all applicable laws, rules, codes and ordinances.
18. The office of the Director of Public Works shall be notified twenty-four (24) hours in advance before starting work.

Sumter County Public Works Department

Right-Of-Way Utilization Permit Page 3

19. In the case of noncompliance with any of the provisions of this document this permit is void and the proposed use will have to be brought in compliance or removed from the right-of-way at no cost to the County.

20. Special Conditions: _____

Submitted by: Bruce Stout

Bruce A. Stout Gas Design Manager

Corporate
Seal

Signature and Title
6/22/18

Date

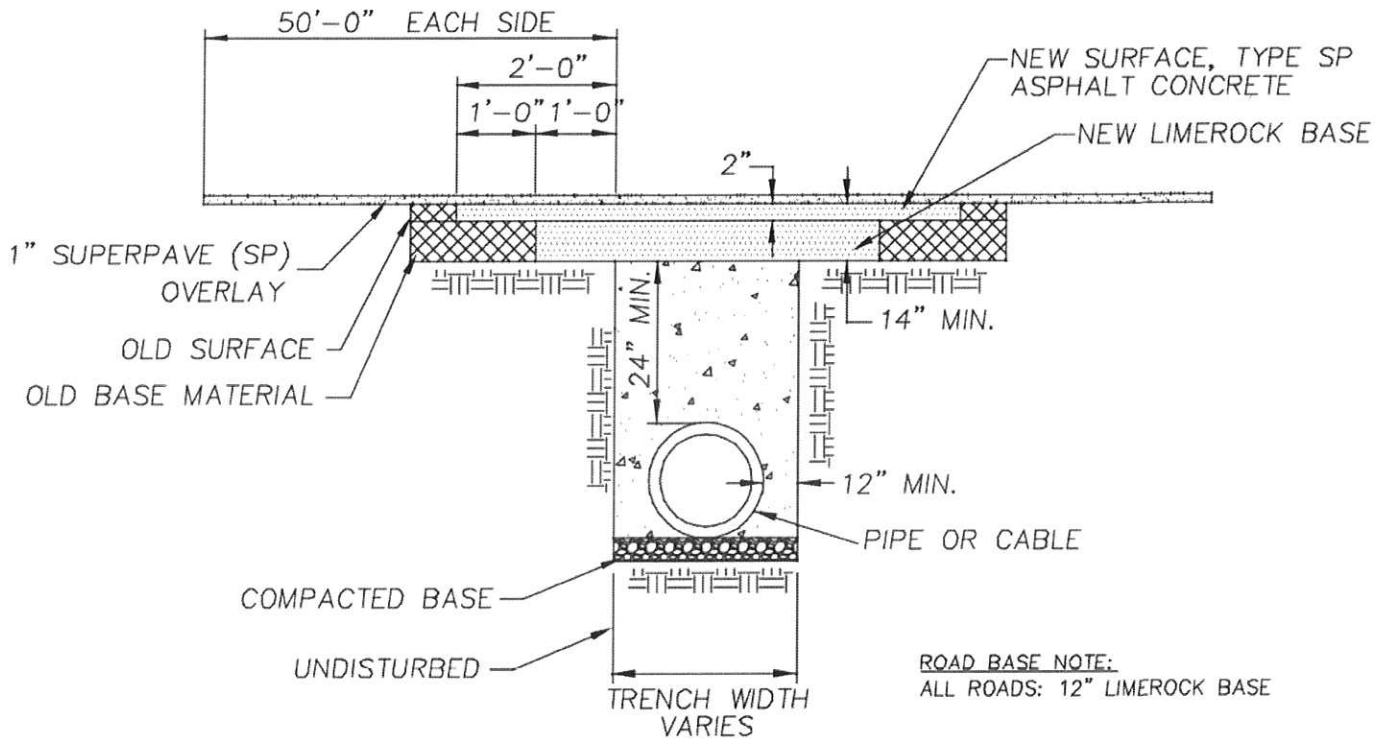
Attested

ADDRESS: (For return of approved permit) _____

Approved Disapproved

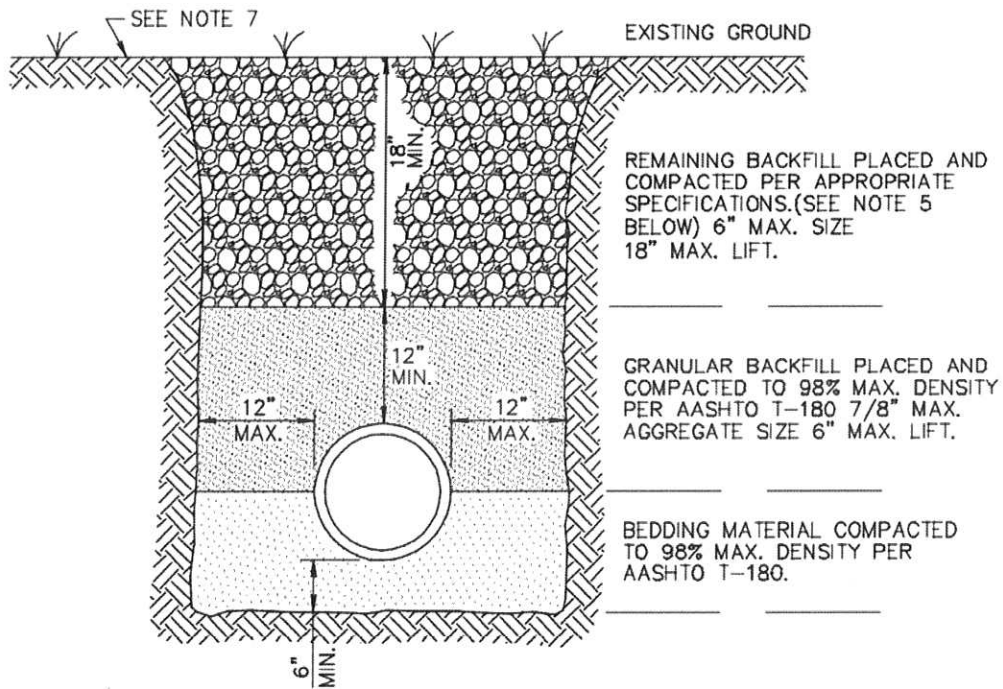
County Right-of-Way Permit Agent Signature

Date



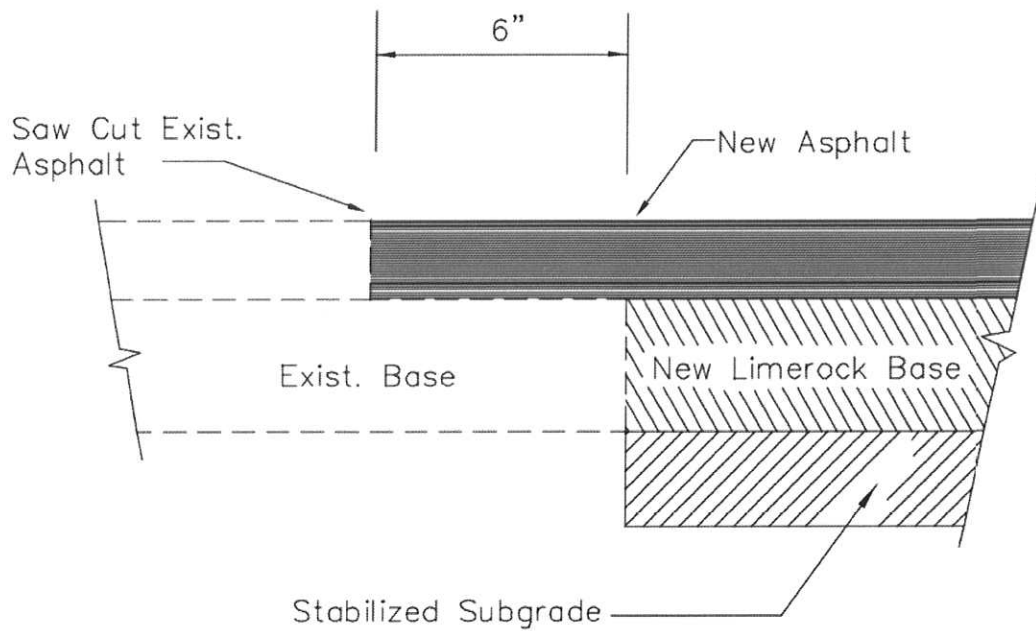
GENERAL NOTES:

1. Base replacement shall be 12" of limerock, placed in 2 lifts.
2. Minimum Asphaltic Concrete surface thickness is 2" of type SP over the cut area in one layer.
3. All surface joints shall be mechanically saw cut.
4. RC-70 or equivalent liquid asphalt shall be added to all surface joints to form seal.
5. Pavement restoration is typical for large diameter pipes.
6. Variances to these pavement restorations may be requested from the Director of Public Works, and approved on a case by case basis.



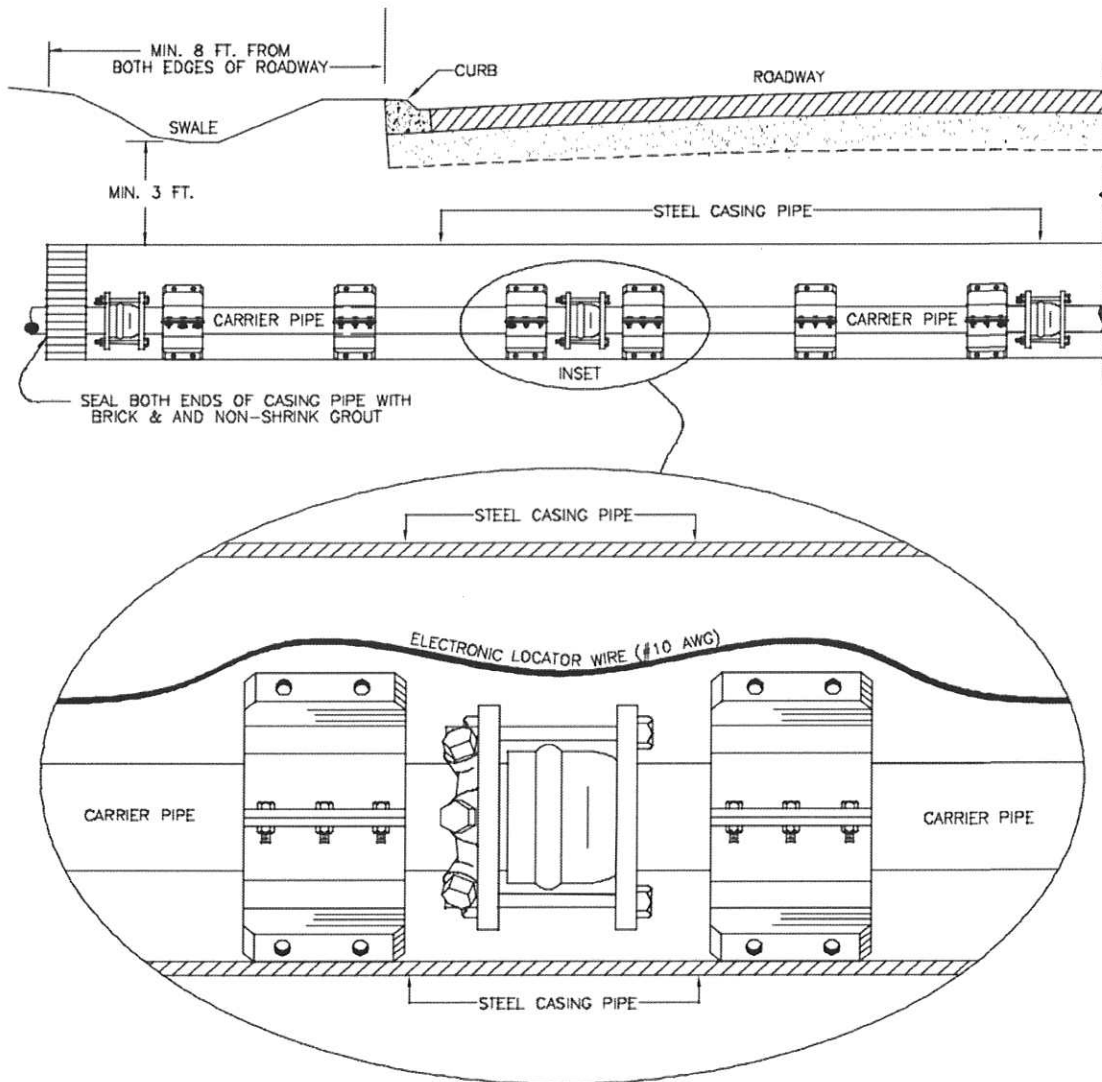
NOTES:

1. UNSUITABLE IN-SITU MATERIALS SUCH AS MUCK, DEBRIS AND LARGE ROCKS SHALL BE REMOVED; BEDDING MATERIAL AND BACKFILL CONSISTING OF WASHED AND GRADED LIMEROCK 3/8" - 7/8" SIZING.
2. THE PIPE AND/OR STRUCTURE SHALL BE FULLY SUPPORTED FOR ITS ENTIRE LENGTH WITH APPROPRIATE COMPACTION UNDER THE PIPE HAUNCHES.
3. THE PIPE AND/OR STRUCTURE SHALL BE PLACED IN A DRY TRENCH.
4. BACKFILL SHALL BE FREE OF UNSUITABLE MATERIAL SUCH AS LARGE ROCK, MUCK, AND DEBRIS.
5. COMPACT BACKFILL TO 98% DENSITY UNDER PAVEMENT (AASHTO T-180).
6. COMPACTION AND DENSITY TESTS SHALL BE COMPLETED DURING BACKFILL OPERATIONS, CONTRACTORS NOT FOLLOWING THIS PROCEDURE, FOR WHATEVER REASONS, SHALL BE REQUIRED TO RE-EXCAVATE THE AREA IN QUESTION, DOWN TO THE BEDDING MATERIAL, THEN BACKFILL FOLLOWING THE ABOVE PROCEDURES.
7. CONTRACTOR SHALL SOD ALL DISTURBED RIGHT-OF-WAY.



NOTE: Contractor shall make a smooth vertical cut in the existing pavement at a distance not less than 6" from the existing edge. The existing limerock base shall be exposed and cleaned to remove loose particles. The exposed limerock and asphalt shall then be prime coated not more than three (3) days prior to scheduled paving.

DETAIL FOR MATCHING EXIST. PAVEMENT



NOTES:

1. STEEL CASING PIPE SHALL BE 2 TIMES (2X) CARRIER PIPE DIAMETER.
2. CASING PIPE TO EXTEND 8' FROM E.O.P. (BOTH SIDES) & ENDS TO BE SEALED W/ BRICKS & NON-SHRINK GROUT.
3. CARRIER PIPE SUPPORT SYSTEM SHALL BE (3) POLYETHYLENE BLOCK ASSEMBLIES PER PIPE LENGTH.
4. RESTRAIN ALL CARRIER PIPE JOINTS AS REQUIRED BY HCUJ.
5. STEEL CASING PIPE EXTERIOR TO BE COATED (BITUMINOUS COATING 16 MILS.).
6. FASTEN LOCATOR WIRE ON CARRIER PIPE THROUGH ENTIRE LENGTH OF JACK & BORE CASING PIPE.
7. THIS DETAIL APPLIES TO POTABLE WATER, RECLAIMED WATER AND SEWER FORCE MAIN PIPE LINES.
8. MINIMUM DEPTH OF CASING LESS THAN 10" IN DIAMETER MAY BE REDUCED TO 2" FROM TOP OF PIPE TO BELOW ROAD BASE.

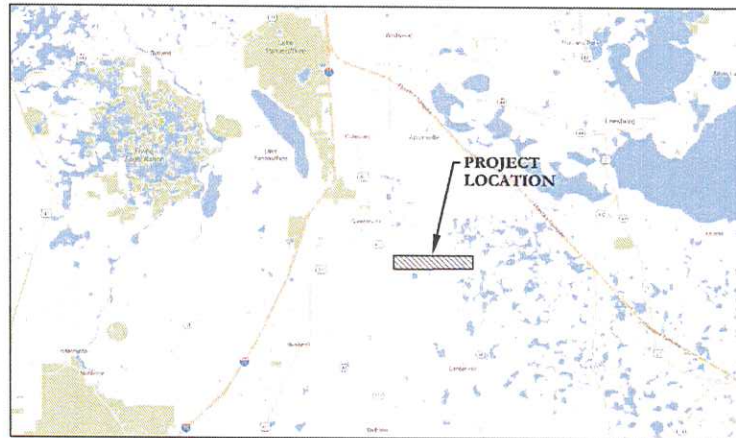
SUMTER COUNTY - R/W PERMIT

INSTALL 8" STEEL GAS MAIN ALONG CR 470

from US 301 to WEST OF NE 50th WAY
SUMTER COUNTY, FL

GENERAL NOTES:

- 1 THE LOCATIONS AND SIZE OF EXISTING UTILITIES AND RIGHT OF WAY, AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. HOWEVER, THERE IS NO GUARANTEE THAT ALL EXISTING FACILITIES HAVE BEEN FOUND OR SHOWN. THE CONTRACTOR IS FOREWARNED TO ASCERTAIN AND DETERMINE PRECISE LOCATIONS PREPARATORY TO EXCAVATING AND ALSO FAMILIARIZE HIMSELF WITH ALL VOLTAGES CARRIED IN OVERHEAD OR UNDERGROUND UTILITY SERVICES. NO CLAIM FOR EXTRA COST SHALL BE MADE AGAINST THE OWNER OR ENGINEER AS A RESULT OF THE AFOREMENTIONED APPROXIMATIONS. THE CONTRACTOR SHALL LOCATE EXACTLY ALL EXISTING UTILITIES THAT CROSS THE PROPOSED GAS LINE PRIOR TO CONSTRUCTION. ALL R/W LINES, PROPERTY LINES AND EASEMENT LINES ARE APPROXIMATE ONLY AND ARE TO BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 2 THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. CONTRACTOR SHALL "CALL SUNSHINE" 1-800-432-4770 A MINIMUM OF 2-DAYS AND A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.
- 3 IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO USE WHATEVER MEANS NECESSARY TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- 4 THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- 5 CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.
- 6 ALL FEATURES ARE NOT SHOWN. THE FEATURES NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, OVERHEAD UTILITIES, TRAFFIC CONTROL WIRING AND APPURTENANCES, EXISTING UTILITY SERVICE LINES AND ROAD SIGNS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT THESE FACILITIES DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
7. THESE PLANS ARE NOT AN ACTUAL SURVEY. RIGHT OF WAY AND EDGE OF PAVEMENT INFORMATION IS APPROXIMATE ONLY AND BASED ON EXISTING RIGHT OF WAY MAPS AND/OR AS-BUILT MAPS.
- 8 ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARD INDICES, THE FDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATIONS MANUAL.
- 9 INSTALLATION TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "TECO PEOPLES GAS - CONSTRUCTION STANDARDS MANUAL".



VICINITY MAP
Not To Scale

SHEET INDEX

1. COVER SHEET
- 2 - 3. GENERAL NOTES & DETAILS
4. PROJECT LAYOUT
- 5 - 14. SITE PLANS
15. MOT PLAN

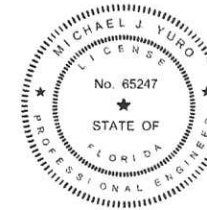
PERMIT SUBMITTAL
6/22/2018



CALL 48 HOURS BEFORE YOU DIG IN FLORIDA



- Engineering / Permitting
- Development Services
- Property Management
- Construction Management
- ADA Consulting



Digitally signed by Michael J Yuro
Date: 2018.06.22 16:07:50 -04'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED
SIGNED AND SEALED AND THE SIGNATURE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.

NO.	DATE	REVISIONS	PROJECT NO.	Y17-134	Yuro & Associates, LLC	145 Hidden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO- PEOPLES GAS SYSTEMS, INC.	SHEET NO.
			DRWN BY:	NDG					
			CHECKED BY:	MJY					
			DATE:	6/22/18					1

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR WATERWAY AND MARINE CONSTRUCTION, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR AIRPORT AND AIRFIELD CONSTRUCTION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR AIRPORT AND AIRFIELD CONSTRUCTION MANUAL.
2. SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURE.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL LINE AND GRADE STAKES IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY ERRORS.
5. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO START OF CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES. IN ORDER TO PREVENT DAMAGE AND COORDINATE ADJUSTMENT OF EXISTING UNDERGROUND UTILITIES.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER AND OWNER OF ANY CHANGES OR DEVIATIONS FROM THE ORIGINAL PLANS PRIOR TO CONSTRUCTION OF SAID CHANGE OR DEVIATION.
7. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES AND UTILITIES. ANY DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR AT THE OWNER'S EXPENSE.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS AS REQUESTED BY THE OWNER FOR THIS PROJECT.
9. THE OWNER SHALL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.
10. ANY EVIDENCE OF NEARBY UTILITIES WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE BY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
11. BENCHMARK DATA BASE IS NATIONAL GEODETIC VERTICAL DATUM IN GVD, OF 1989.
12. THE CONTRACTOR SHALL PROTECT AND USE EXISTING POWER LINES AND/OR AIRLINES AND/OR OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
13. ALL PROPERTY CORNERS AND SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL PROPERTY CORNERS AND SURVEY MONUMENTS. ANY CHANGES SHOULD BE NOTIFIED IMMEDIATELY TO THE ENGINEER. ALSO, ALL E.S. CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE CONTROL POINTS AT THEIR EXPENSE.
14. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS IN COMPLIANCE WITH ALL PERMITTING AGENCIES.
15. SUBMITTAL OF AS BUILT SITE SURVEY, INCLUDING RECORD MARKS, IS REQUIRED.
16. LOCATIONS OF DIRECTIONAL DRILL PIPE ENTRY AND EXIT ARE APPROXIMATE ONLY AND MAY BE ADJUSTED OR LENGTHENED BY DIRECTIONAL DRILL CONTRACTOR TO ACHIEVE REQUIRED DEPTH. RESPONSIBILITY OF THE DRILL TO AVOID COLLISION WITH UNDERGROUND UTILITIES AND TO MAINTAIN PROPER CLEARANCES SHALL BE ASSESSABLE AS APPROVED BY THE ENGINEER AND NO ADDITIONAL COST TO THE OWNER.
17. CONTRACTOR SHALL HAVE SURVEYOR VERIFY LOCATION OF ALL EXISTING RIGHT-OF-WAY LINES AND GAS PERMIT AREA.
18. CONTRACTOR SHALL PROVIDE TEMPORARY RAMP ACROSS DRIVEWAYS AND ROADWAYS TO PROVIDE ACCESS AND MAINTAIN VEHICLE TRAFFIC OVER THE PIPE DURING THE DIRECTIONAL DRILL PROCESS AND TO PROTECT THE PIPE DURING STAGING AND WELDING, WHENEVER POSSIBLE.
19. CONTRACTOR MAY CHOOSE TO DRILL SHORTER OR LONGER SECTIONS AS NECESSARY TO AVOID COLLISION WITH ROADWAY TRAFFIC.
20. CONTRACTOR SHALL RESTORE ALL ITEMS THAT WERE DAMAGED BY CONSTRUCTION TO EXISTING CONDITION OR BETTER.
21. PRIOR TO CONSTRUCTION, CONTRACTOR IS REQUIRED TO PROVIDE FOOT THE EXACT LOCATION OF TRENCHING AND DIRECTIONAL DRILLING, IF APPLICABLE.
22. THE CONTRACTOR IS REQUIRED TO OBTAIN APPROVAL FROM THE FOOT CITY OR COUNTY, CITY DEPARTMENT PRIOR TO ANY ROADWAY CLOSURE.

MAINTENANCE OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL INSTALL STANDARD RED ADVANCE CONSTRAINT SIGNALING IN ACCORDANCE WITH FDOT'S STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, SECTION 605.03.01.
2. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED IN A MANNER TO PREVENT FROM THE EDGE OF EXISTING PAVEMENT OR AS FAR AWAY AS POSSIBLE WITHIN THE EXISTING LIMITS, AND SHALL BE PROTECTED BY TRAFFIC BARRICADES WITH FLASHING YELLOW LIGHTS.
3. THESE SHALL BE NO EXHAUSTION LEFT OPEN AT ALL TIMES.
4. THE CONTRACTOR SHALL NOTIFY ALL LOCAL JURISDICTIONS AS WELL AS THE FOOT OFFICE 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO THE SUBMITTAL STATE ONE CALL STREET AT 800-432-4776 FOR LOCATION OF UNDERGROUND UTILITIES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL APPLICABLE EIGHT SIGNALS FOR STREET CLOSURE OR TRAFFIC CONTROL.

PAVING AND DRAINAGE NOTES:

1. ALL SCHEDULED UTILITIES LOCATED UNDER PROPOSED DRIVEWAYS ARE TO BE CONSTRUCTED PER FDOT STANDARD SPECIFICATIONS SECTION 605.03.01 TO 605.03.05.
2. ALL INTERSECTIONS OF INLET PIPES SHALL BE LOCATED IN THE CENTERLINE OF THE ROADWAY. ALL INTERSECTIONS SHALL BE PROTECTED BY THE OWNER'S ENGINEER IN THE EVENT OF A CHANGE TO THE PLAN.
3. CONTRACTOR SHALL COORDINATE ALL UTILITIES TO EXISTING STORM DRAINAGE FACILITIES AND SHALL VERIFY LOCATION AND ELEVATION OF SAID FACILITIES PRIOR TO START OF CONSTRUCTION. ANY FACILITIES NOT SHOWN SHALL BE REPAIRED TO LOCAL OR BETTER THAN LOCAL CONDITIONS.
4. THE OWNER RESERVES THE RIGHT TO REQUEST FROM THE CONTRACTOR ASPHALTIC CONCRETE SURFACE COURSE AND VERIFICATION TO ASSURE COMPLIANCE WITH FDOT SPECIFICATIONS.
5. EXTRA BASE MATERIAL SHALL BE SUBMITTED AT SUBMITTAL. ALL SUBMITTALS SHALL BE COVERED WITH A 12" BENCH MARK DATUM IN GVD, OF 1989.

CLEAN UP & RESTORATION NOTES:


1. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL DEBRIS AND SHALL ABET ALL AGENCIES STAKEHOLDERS.
2. CONTRACTOR SHALL RESTORE ALL ITEMS TO THE EXISTING CONDITIONS OR BETTER. ITEMS INCLUDE BUT NOT LIMITED TO CONCRETE DRIVEWAY, DRIVEWAY APPROX. 10' BODIES, DITCH CONCRETE SIDEWALKS, TREES, LANDSCAPING, UNDERGROUND UTILITIES, AND SURROUNDING UTILITIES AND GRASS.
3. NO DUMPING SHALL BE ALLOWED ON THE RIGHT OF WAY OR NEARBY PROPERTY. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT AREA.
4. NO PAVEMENT IS PROPOSED TO BE CUT. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPROVAL FROM FOOT CITY OR COUNTY FOR ANY ROADWAY CLOSURE DUE TO CONSTRUCTION.
5. THE DIRECTIONAL DRILL CONTRACTOR SHALL CONTAIN THE DRILLING MUD, BENTONITE CLAY, AND DISPOSE OF THE WATER PROPERLY AS REQUIRED BY ALL STATE AND FEDERAL REGULATIONS. THE CONTRACTOR IS REQUIRED TO IMMEDIATELY SWEEP AND CLEAN UP ANY SPILL ONTO THE ROADWAY OR AREA ON THE SIDE OF THE CONSTRUCTION AREA.
6. ALL DRIVES DAMAGED OR OPEN DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO THE FULL WIDTH OF THE DRIVE FROM THE EDGE OF PAVEMENT TO THE FURTHEST POINT OF DAMAGE. CONCRETE DRIVES SHALL GO TO THE FURTHEST EXISTING ZONE SECTION. JOINT ALL DRIVES SHALL BE SAW CUT.
7. ALL DISTURBED ASPHALT TO BE REPAIRED TO ORIGINAL SPECIFICATIONS. INCLUDING ROADWAYS, DRIVEWAYS, ETC. SHALL BE RESTORED TO THEIR ORIGINAL DESIGN SPEED OR THE LATEST FOOT CITY OR COUNTY SPECIFICATIONS AS APPROPRIATE.

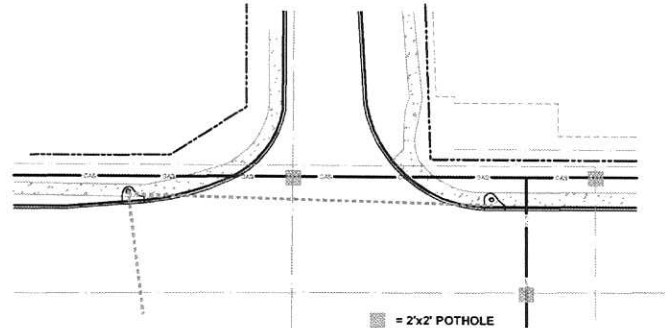
SITE PREPARATION NOTES:

1. PRIOR TO CONSTRUCTION, THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES WITHIN THE PROJECT AREA SHALL BE VERIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.
2. IT IS RECOMMENDED THE TOP OF THE CLAYEY SANDS BE MAINTAINED A MINIMUM 2 FEET BELOW THE PROPOSED BOTTOM OF THE BASE MATERIAL OR CONCRETE PAVEMENT. IF THE SITE CONDITIONS SUCH THAT THE MINIMUM SEPARATION DOES NOT EXIST, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.
3. CONTACT THE SURFACE FROM THE SURFACES WHICH ALLOW VISUAL INSPECTION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.
4. TEST THE SURFACE FOR COMPACTION AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 1000 SQUARE FEET OF SURFACE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES.
5. FACE ALL MATERIALS AS REQUIRED. THE FILL SHALL CONSIST OF CLEAN, THE SAND WITH LESS THAN 10 PERCENT SOIL. FILL SHALL BE LIFTED TO 12 INCH LAYER. FILL SHALL BE COMPACTED TO A MINIMUM DENSITY OF 98 PERCENT OF THE MOISTURE PROPER MAXIMUM DRY DENSITY.
6. CONTRACTOR SHALL OBTAIN RECORD. SURFACE OF ALL EXISTING UTILITIES AND VIDEO TAPING OR PHOTOGRAPHY PRIOR TO ANY CONSTRUCTION.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL WITHIN BEST MANAGEMENT PRACTICES FOR THE DURATION OF THE PROJECT UNTIL SUCH TIME AS THE PROJECT HAS BEEN CERTIFIED AS COMPLETE.
2. THE CONTRACTOR SHALL SOO ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.
3. SILT FENCES SHALL BE INSTALLED ALONG LINES OF CONSTRUCTION.
4. SILT FENCES SHALL BE INSPECTED AT THE END OF EACH DAY AND REPAIRED IMMEDIATELY IF DAMAGED.
5. ALL SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE SLOPED UPON COMPLETION OF FINAL GRADING.
6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF BROOD WATER BY THE INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR BARRIERS.
7. FLOATING SUBMERSION BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DURING CONSTRUCTION ACTIVITIES WHERE PROTECTION WAS NOT TURNED WATER DISCHARGE MAY OCCUR.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION.

NO	DATE	REVISIONS	PROJECT NO.	Y17-114	SHEET NO.
			145 Hildon Road, Unit 106 Ponce de Leon, FL 32081 (904) 462-5119 GARY@PEOPLESYSTEMS.COM		2
					
			MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL		
			CR 470 - GAS MAIN INSTALLATION PROVIDER TECO-PEOPLES GAS SYSTEMS, INC.		
			GENERAL NOTES		



**POT HOLE
TYPICAL DETAIL**
Not To Scale

POT HOLE NOTES:
 1) CONTRACTOR TO CALL FOR UTILITY LOCATES & COMPLETE A "POT HOLE" AT EACH POTENTIAL CONFLICT/CROSSING TO IDENTIFY EXACT LOCATION & DEPTH OF EXISTING UTILITIES & DRAINAGE
 2) POT HOLE LOCATIONS SHOWN ON DETAIL ARE ESTIMATED. ACTUAL POT HOLE LOCATIONS TO BE DETERMINED IN FIELD BY CONTRACTOR
 3) ALL POT HOLES TO BE REPAIRED PER FDOT STANDARD INDEX NO. 307

UTILITY CONTACT INFORMATION

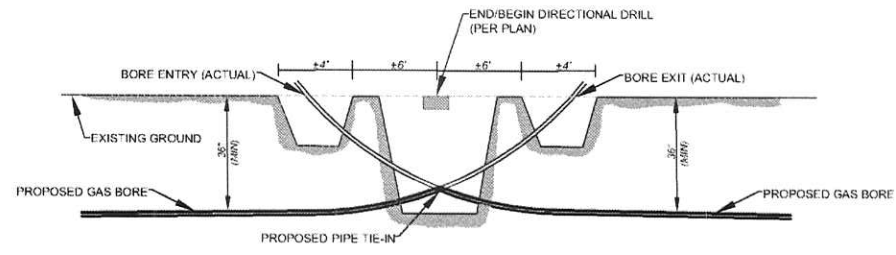
(CONTRACTOR TO VERIFY CURRENT CONTACT INFORMATION)

BRIGHT HOUSE NETWORKS, LLC (352) 330-2909
 DUKE ENERGY (727) 893-9394
 MCI (972) 729-6322
 CENTURYLINK (303) 992-9931
 SUMTER ELECTRIC COOPERATIVE, INC (352) 569-9644

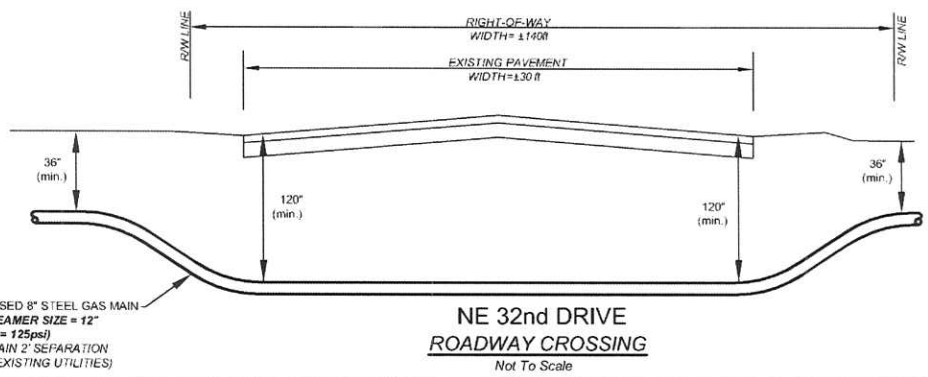
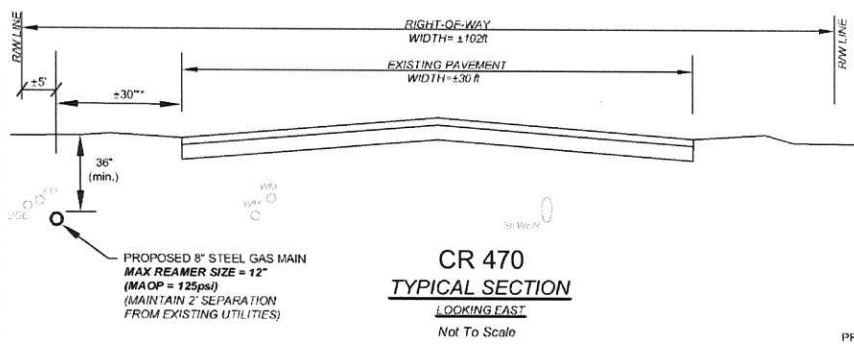
SUNSHINE DESIGN TICKET No. 008700859

PLAN LEGEND:

- PROPOSED GAS
- - - EXISTING GAS
- - - COMMUNICATION
- - - OVERHEAD ELECTRIC
- - - UNDERGROUND ELECTRIC
- - - FIBER OPTIC
- - - FORCE MAIN
- - - REUSE MAIN
- - - STORM DRAINAGE
- - - SEWER
- - - WATER
- - - RIGHT OF WAY
- - - EXISTING FENCE
- ▨ TYPICAL 4'x6' BORE PIT
- 384+00 STATIONING LINE
- ⊗ IN LINE VALVE
- ┌ END CAP
- ➔ REDUCER
- ⊙ MARKER POST

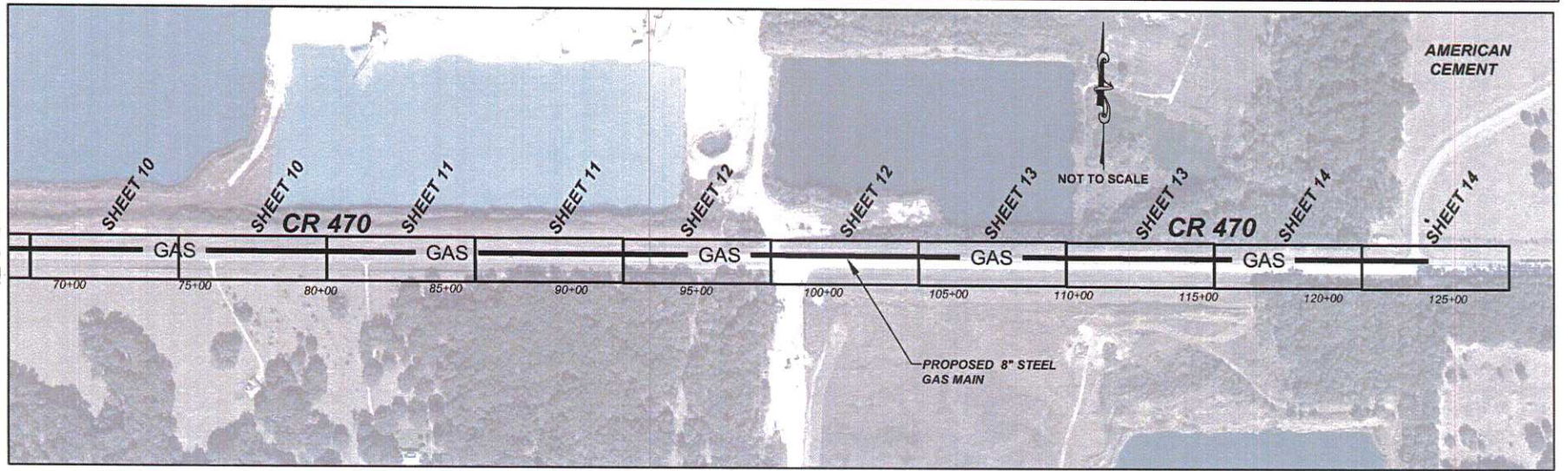


**DIRECTIONAL BORE - END/BEGIN STATION
TYPICAL DETAIL**
Not To Scale



** DISTANCE FROM PAVEMENT VARIES. SEE PLANS FOR SPECIFIC INFO

NO.	DATE	REVISIONS	PROJECT NO.	Y17-134	 145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION No. 29658	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO- PEOPLES GAS SYSTEMS, INC. DETAILS	SHEET NO.	3
			DR. W.N. BY	NDG					
			CHECKED BY	MJY					
			DATE	6/22/18					



NO.	DATE	REVISIONS

PROJECT NO.	Y17-131
DRAWN BY	NDG
CHECKED BY	MJY
DATE	5/22/18

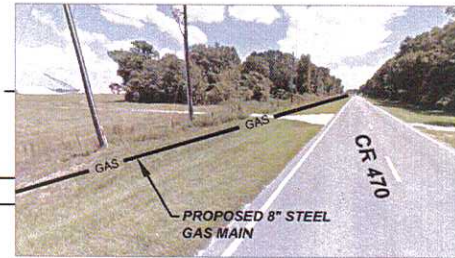
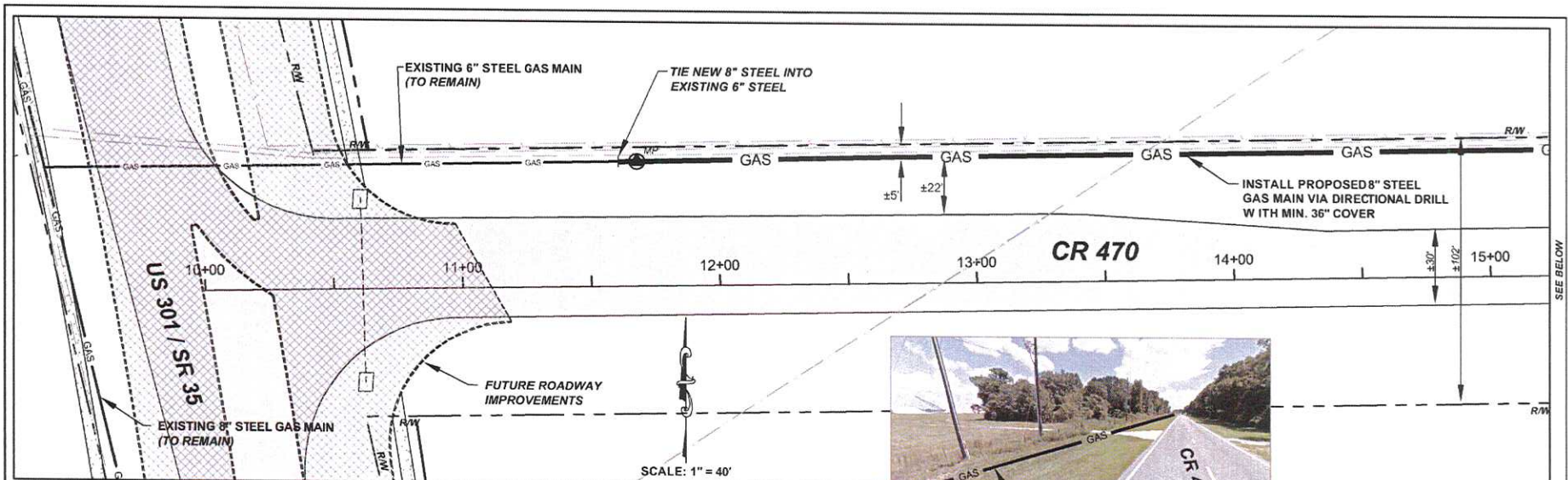


145 Hidden Road, Unit 108
 Ponte Vedra, FL 32081
 (904) 342-5199
 CERTIFICATE OF AUTHORIZATION NO. 28668

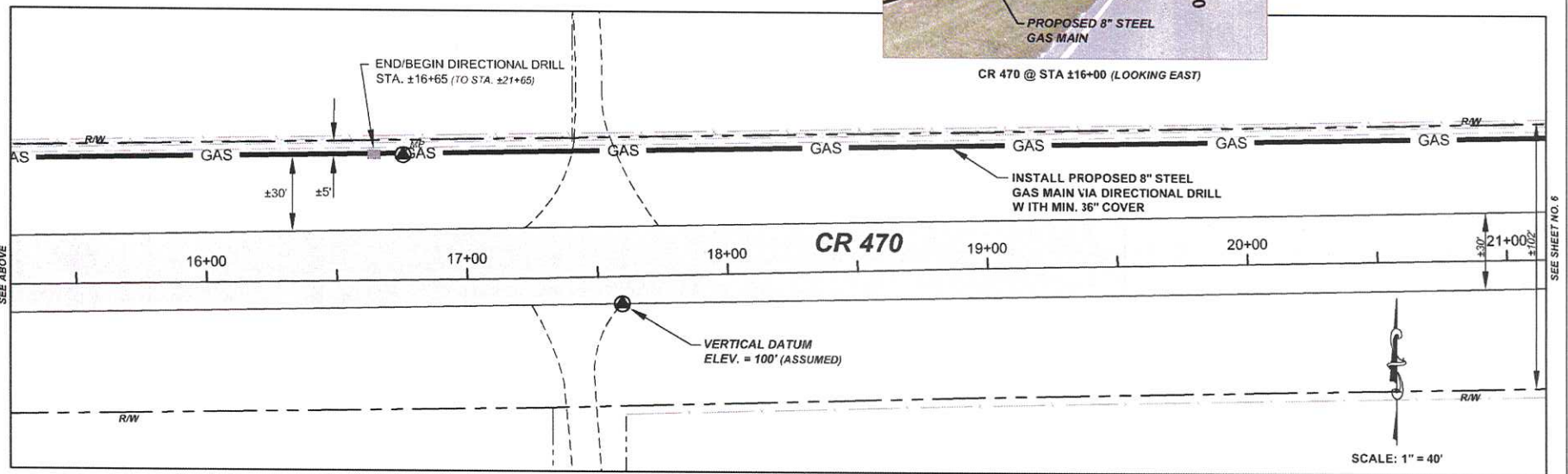
MICHAEL J. YURO, P.E.
 FLORIDA P.E. LICENSE NO. 65247
 REGISTERED PROFESSIONAL

CR 470 - GAS MAIN INSTALLATION
 PREPARED FOR
TECO- PEOPLES GAS SYSTEMS, INC.
 SITE PLAN

SHEET NO.	4
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CR 470 @ STA 16+00 (LOOKING EAST)

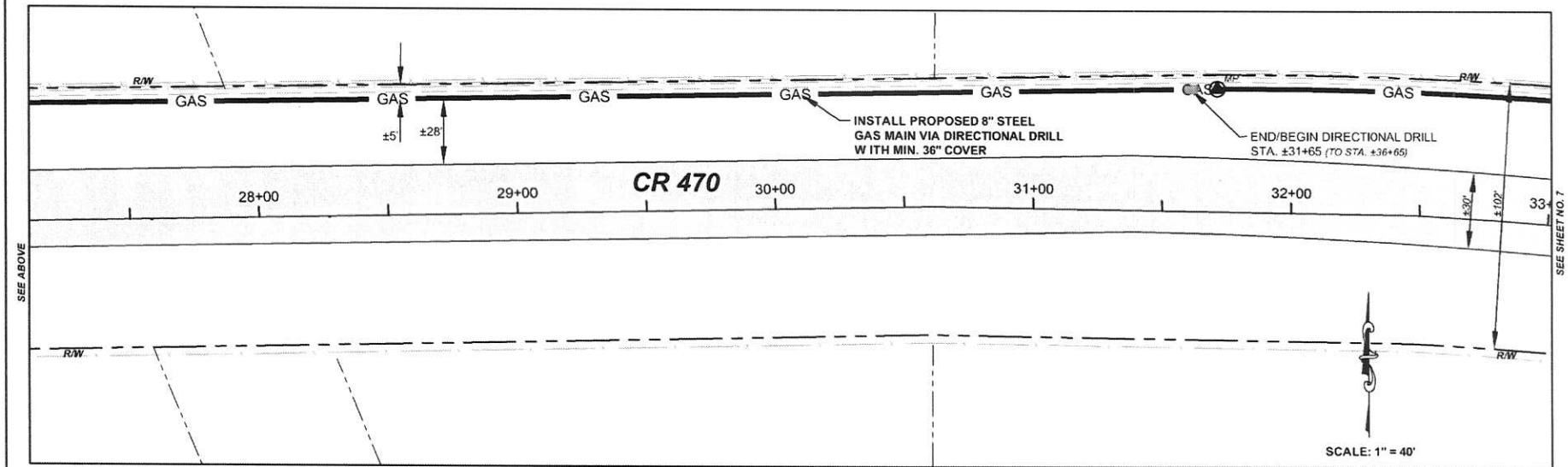
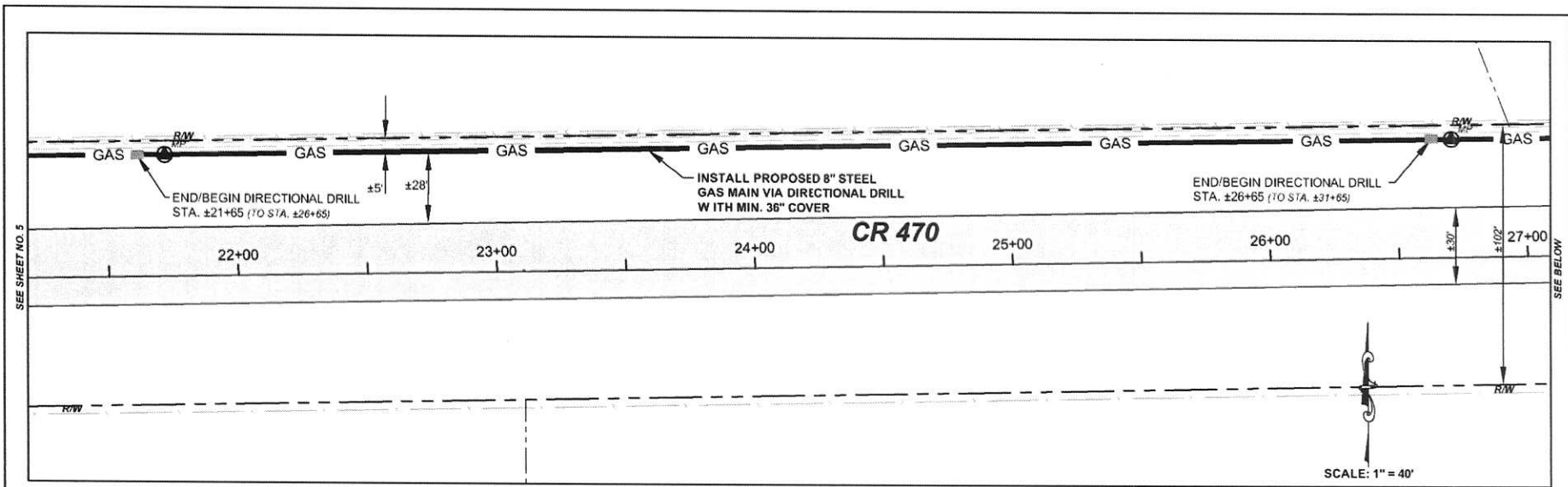



SEE ABOVE

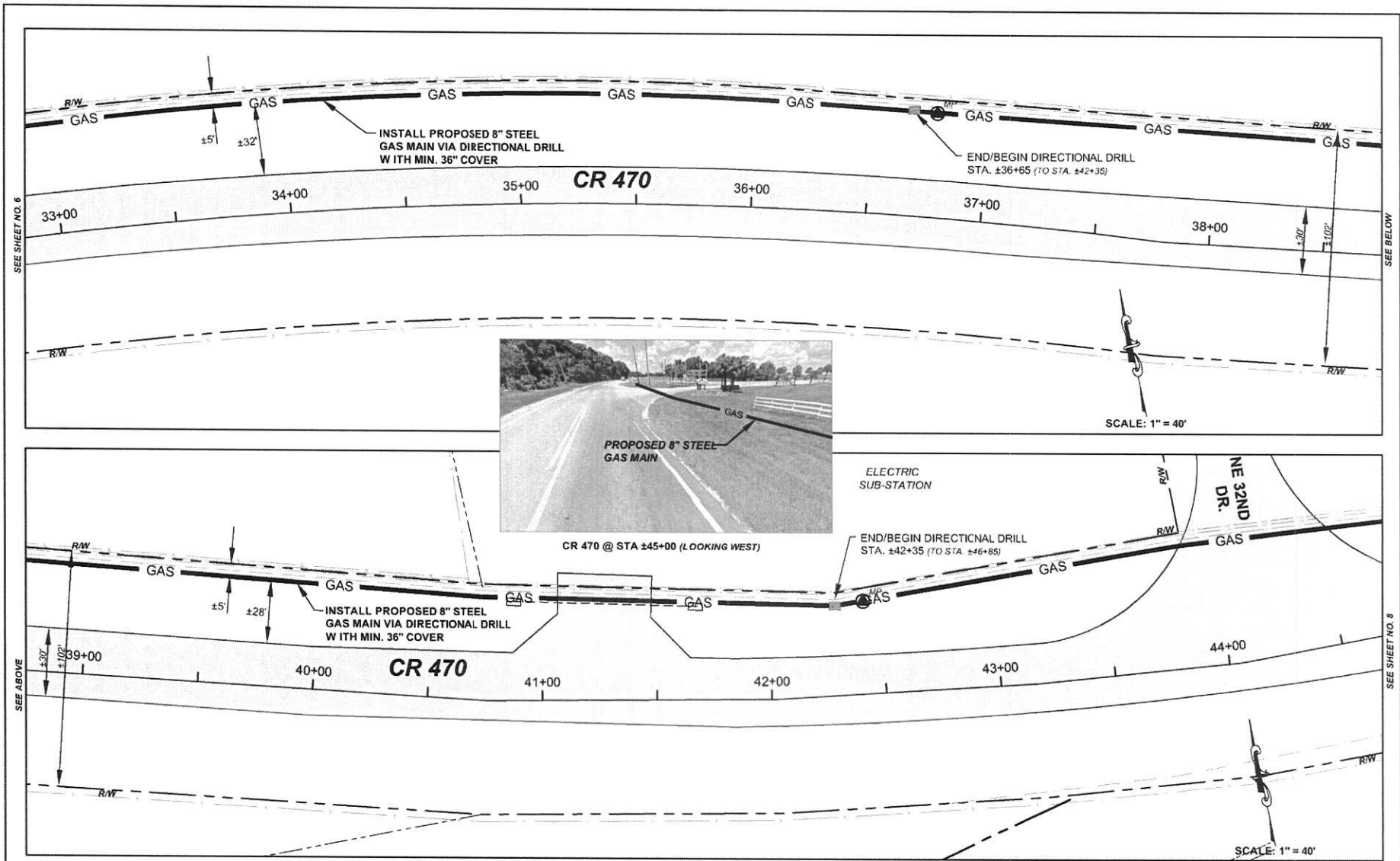
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SEE SHEET NO. 6

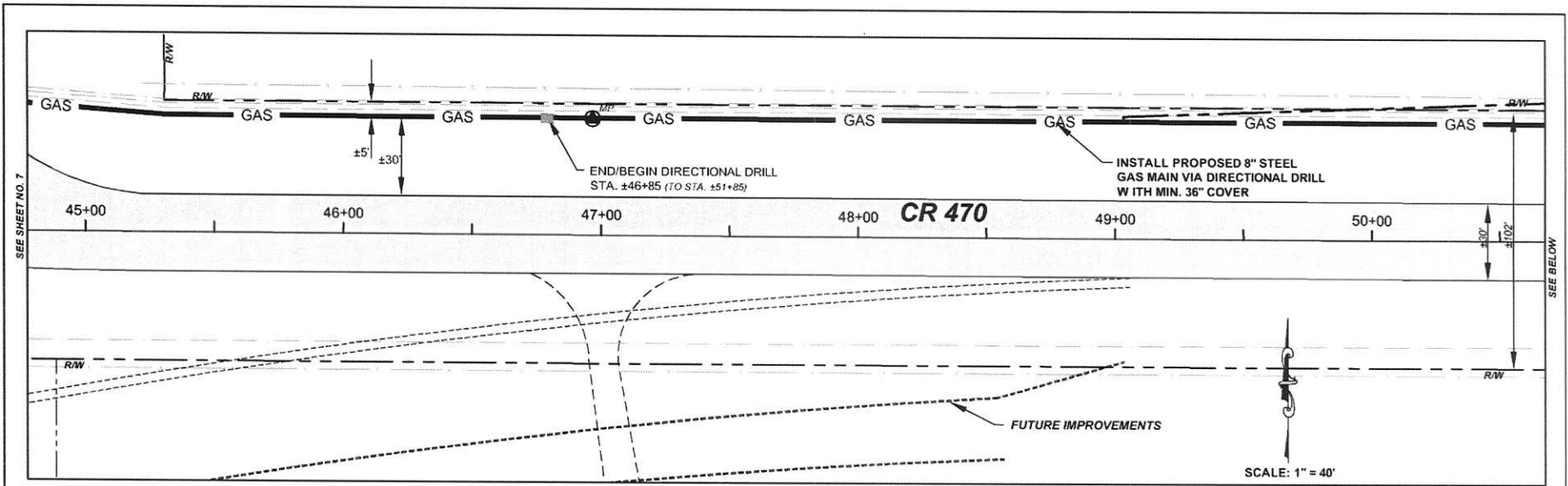
NO.	DATE	REVISIONS	PROJECT NO.	Y17-134	 <p>145 Hidden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199</p> <p>CLERK OF COURT AUTHORIZATION NO. 2958</p>	<p>MICHAEL J. YURO, P.E.</p> <p>FLORIDA P.E. LICENSE NO. 65217</p> <p>REGISTERED PROFESSIONAL</p>	<p>CR 470 - GAS MAIN INSTALLATION</p> <p>PREPARED FOR</p> <p>TECO- PEOPLES GAS SYSTEMS, INC.</p> <p>SITE PLAN</p>	SHEET NO.		
			DRAWN BY:	NDG						
			CHECKED BY:	MJY						
			DATE:	6/22/18						5



NO.	DATE	REVISIONS	PROJECT NO.	Y17-434	 145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5479 CERTIFICATE OF AUTHORIZATION NO. 28658	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO - PEOPLES GAS SYSTEMS, INC. SITE PLAN	SHEET NO.
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			CHECKED BY:	MJY				
			DATE:	5-22-18				

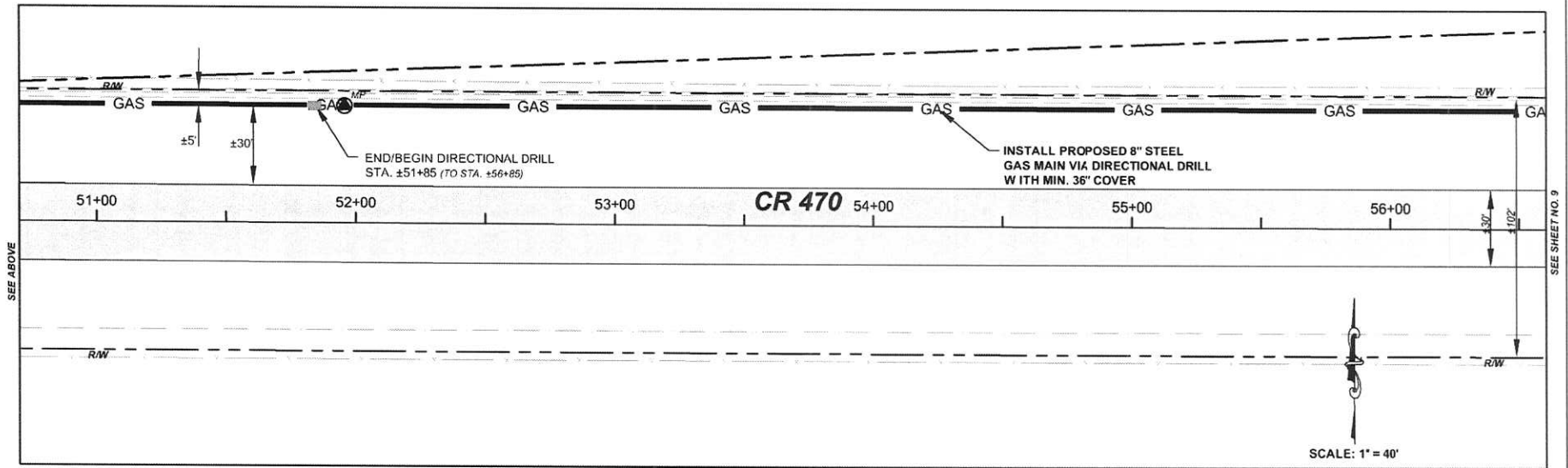


NO.	DATE	REVISIONS	PROJECT NO.	Y17-151	 145 Hillen Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION NO. 29858	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO- PEOPLES GAS SYSTEMS, INC. SITE PLAN	SHEET NO.	7	
			DRWN BY	NDG						
			CHECKED BY	MJY						
			DATE	5-22-18						




SEE SHEET NO. 7

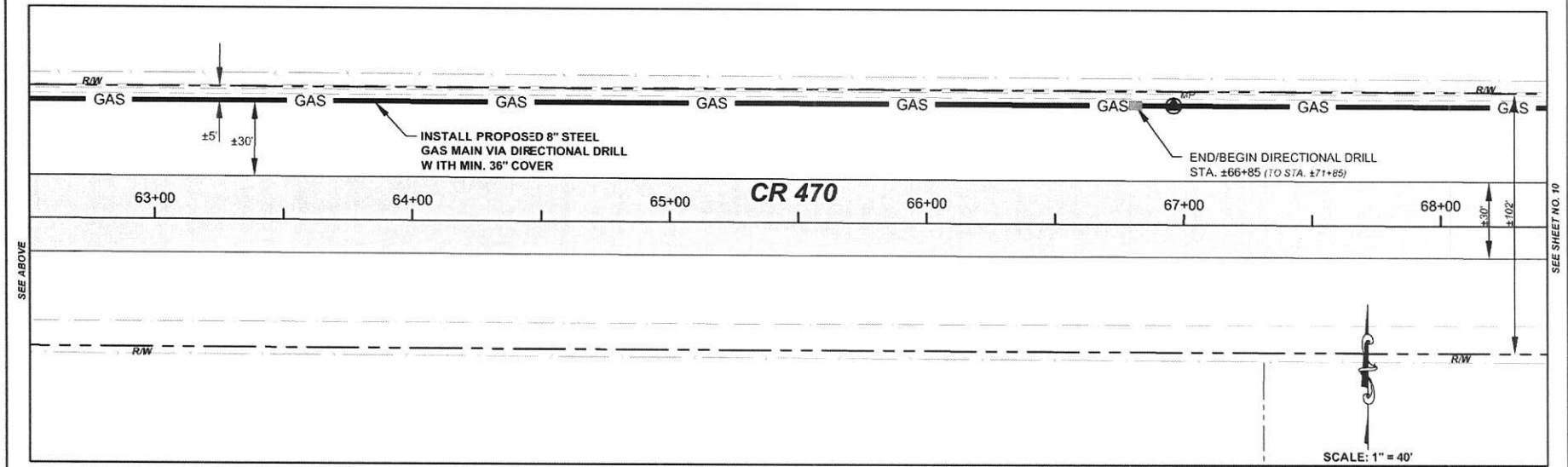
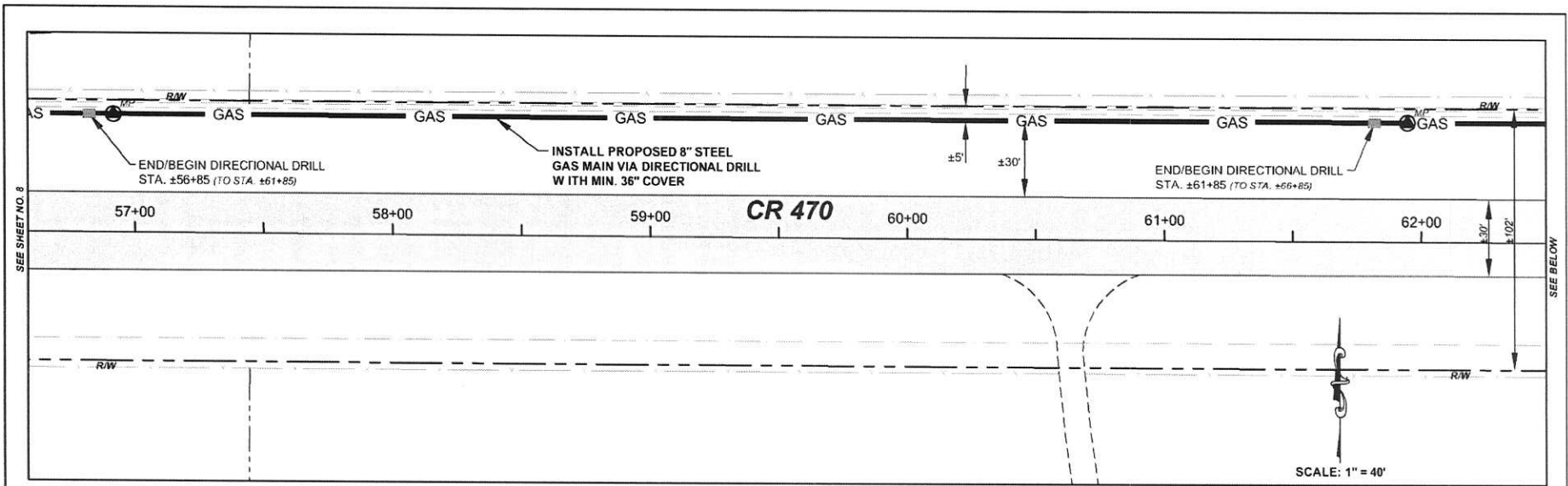
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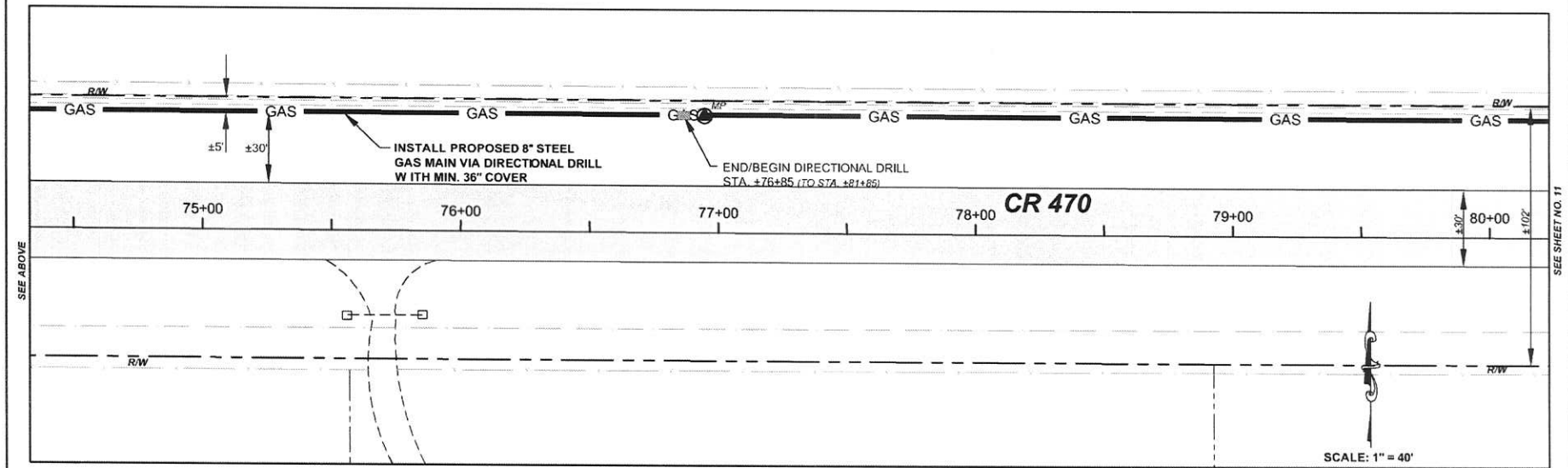
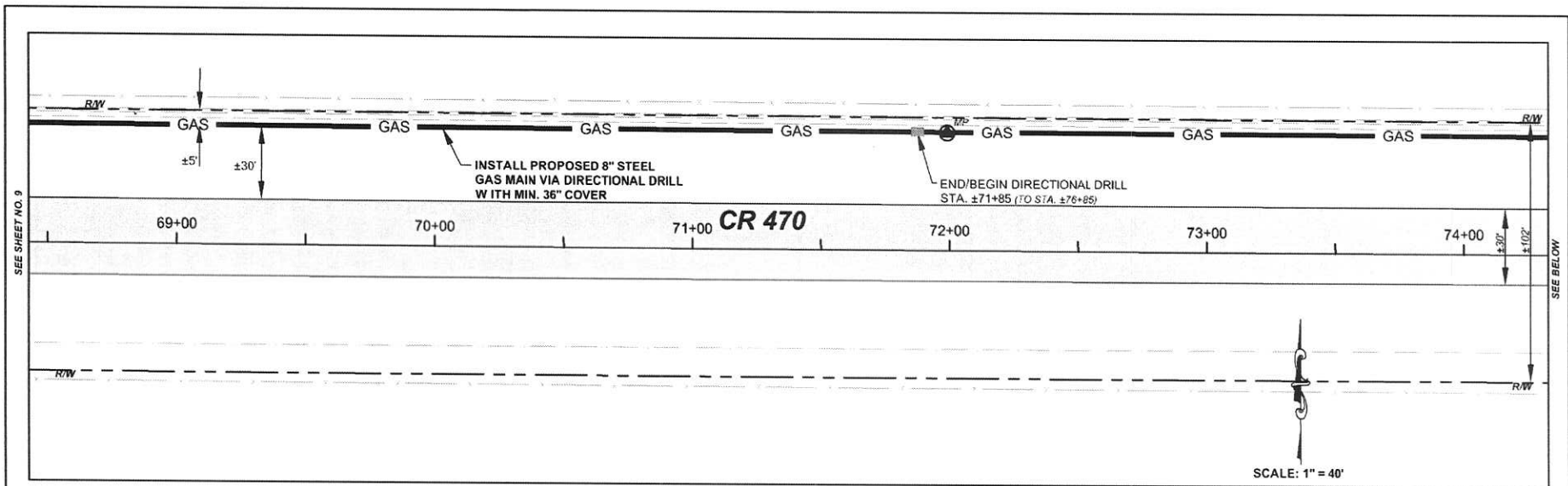
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SEE SHEET NO. 9

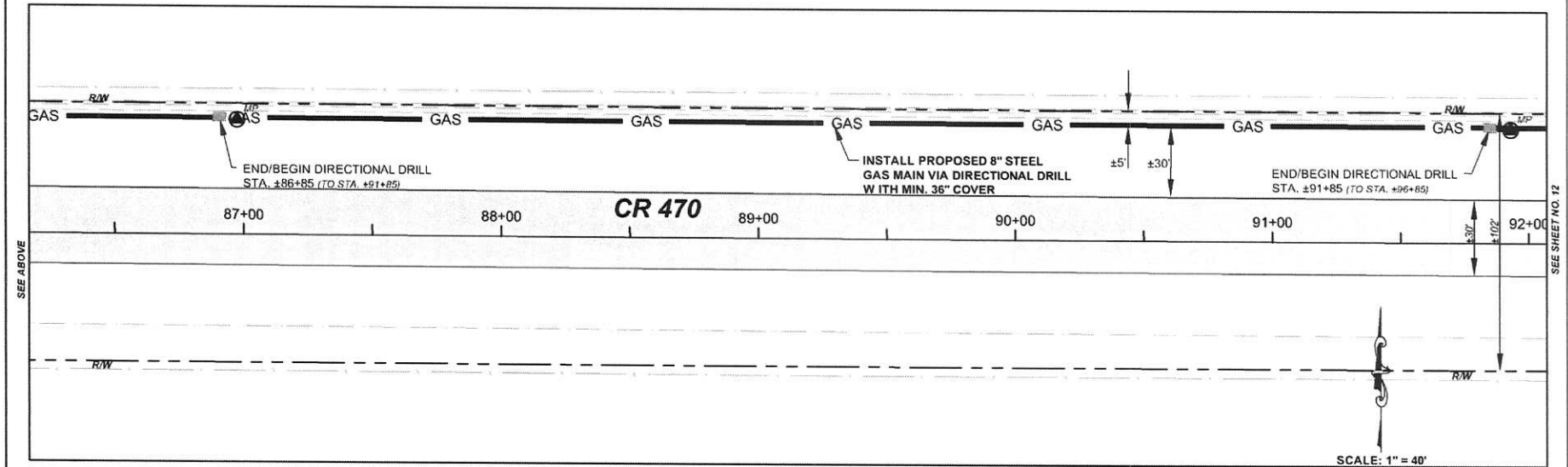
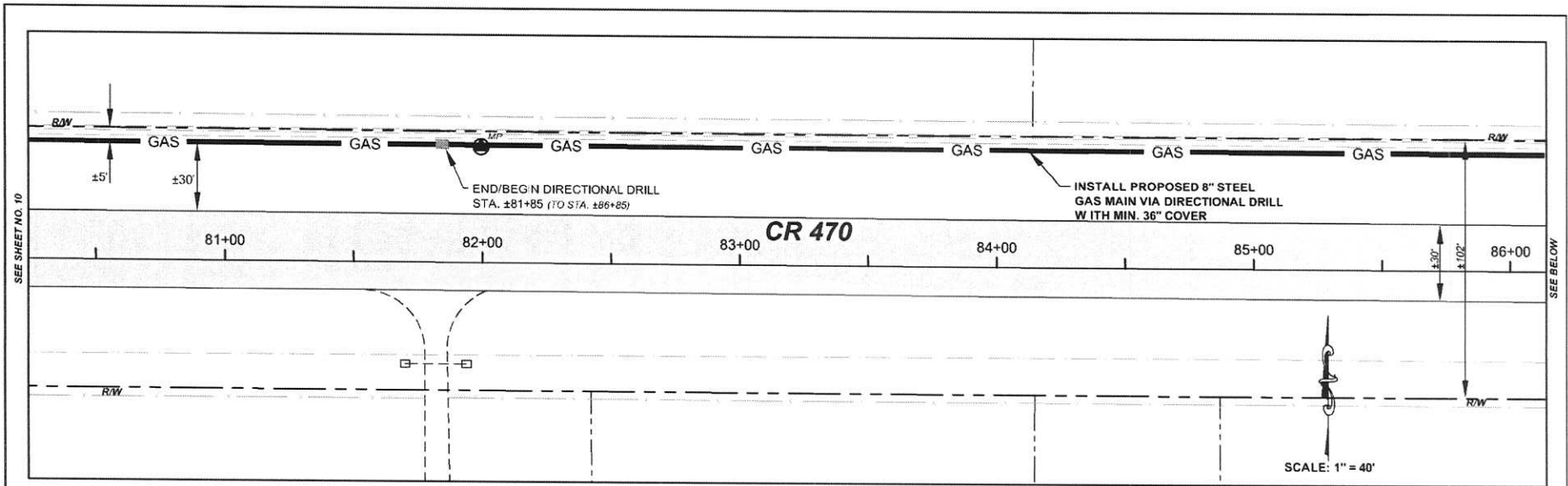
NO.	DATE	REVISIONS	PROJECT NO.	Y17-434	 <p>145 Hidden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199</p> <p>CERTIFICATE OF AUTHORIZATION NO. 29858</p>	<p>MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL</p>	<p>CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO- PEOPLES GAS SYSTEMS, INC. SITE PLAN</p>	SHEET NO.		
			DRAWN BY:	NDG						
			CHECKED BY:	MJY						
			DATE:	6/22/18						8



NO.	DATE	REVISIONS	PROJECT NO.	Y17-434	 145 Holden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION NO. 2958	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO- PEOPLES GAS SYSTEMS, INC. SITE PLAN	SHEET NO.
			DRAWN BY	NDG				9
			CHECKED BY	MJY				
			DATE	6/22/18				



NO.	DATE	REVISIONS	PROJECT NO.	Y17-131	 145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION NO. 2968	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO- PEOPLES GAS SYSTEMS, INC. SITE PLAN	SHEET NO.
			DRAWN BY	NDG				10
			CHECKED BY	MJY				
			DATE	5/22/18				



NO.	DATE	REVISIONS

PROJECT NO.	Y17-134
DRWN BY	NDG
CHECKED BY	MJY
DATE	6/22/18

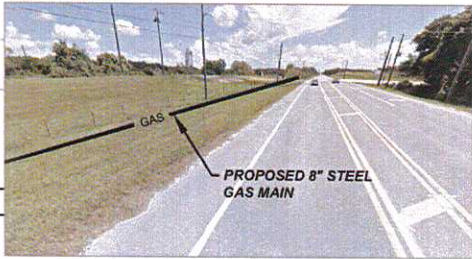
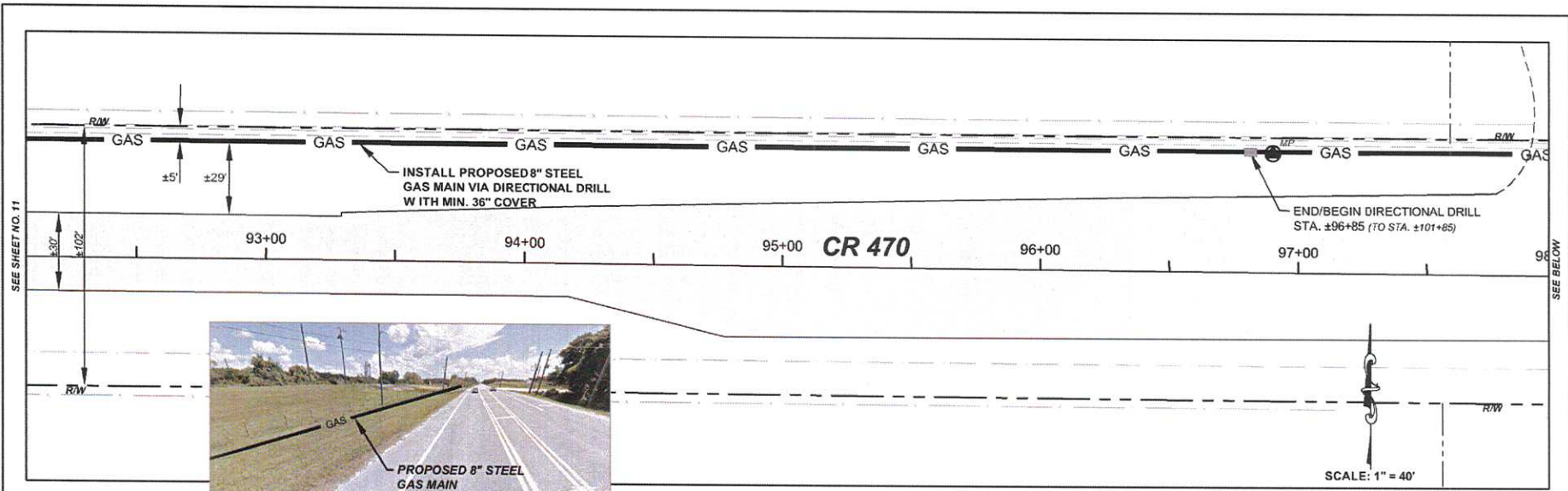


145 Holden Road, Unit 108
 Ponte Vedra, FL 32081
 (904) 342-5199
 CERTIFICATE OF AUTHORIZATION NO. 29658

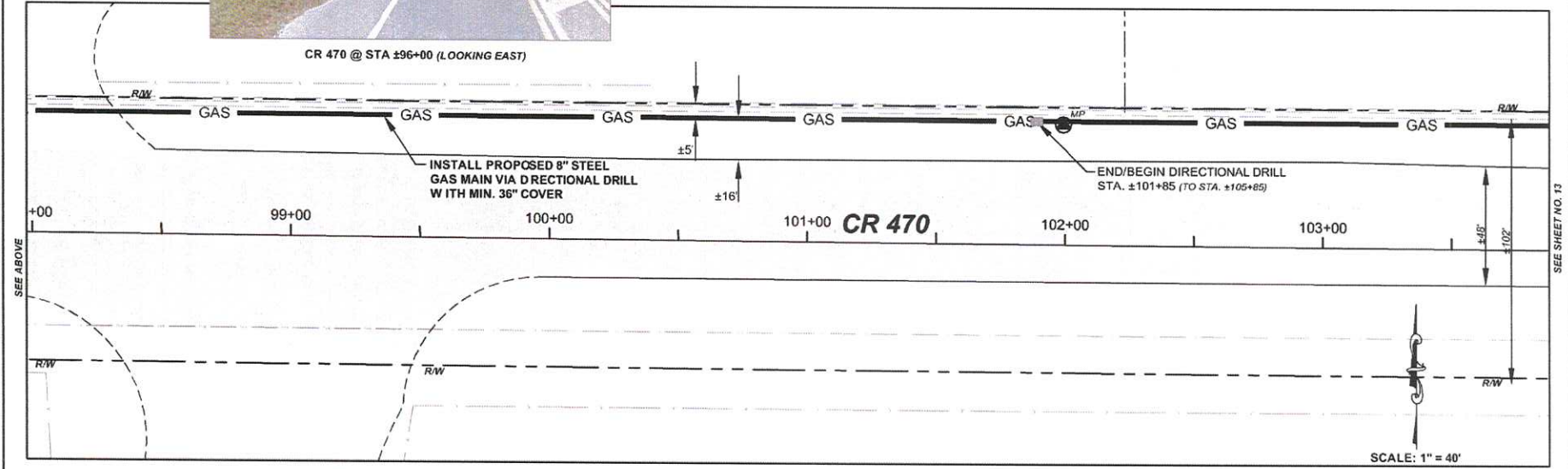
MICHAEL J. YURO, P.E.
 FLORIDA P.E. LICENSE NO. 65247
 REGISTERED PROFESSIONAL

CR 470 - GAS MAIN INSTALLATION
 PREPARED FOR
 TECO- PEOPLES GAS SYSTEMS, INC.
 SITE PLAN

SHEET NO.	11
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CR 470 @ STA ±96+00 (LOOKING EAST)



NO.	DATE	REVISIONS

PROJECT NO.	Y17-131
DRAWN BY	NIDG
CHECKED BY	MJY
DATE	5/22/18

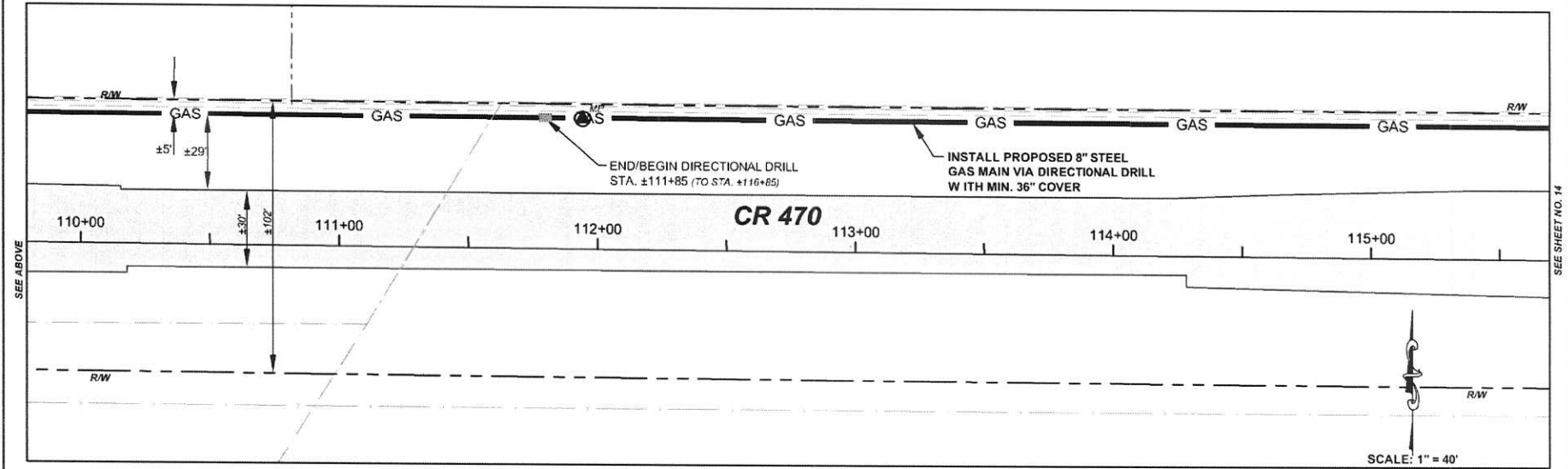
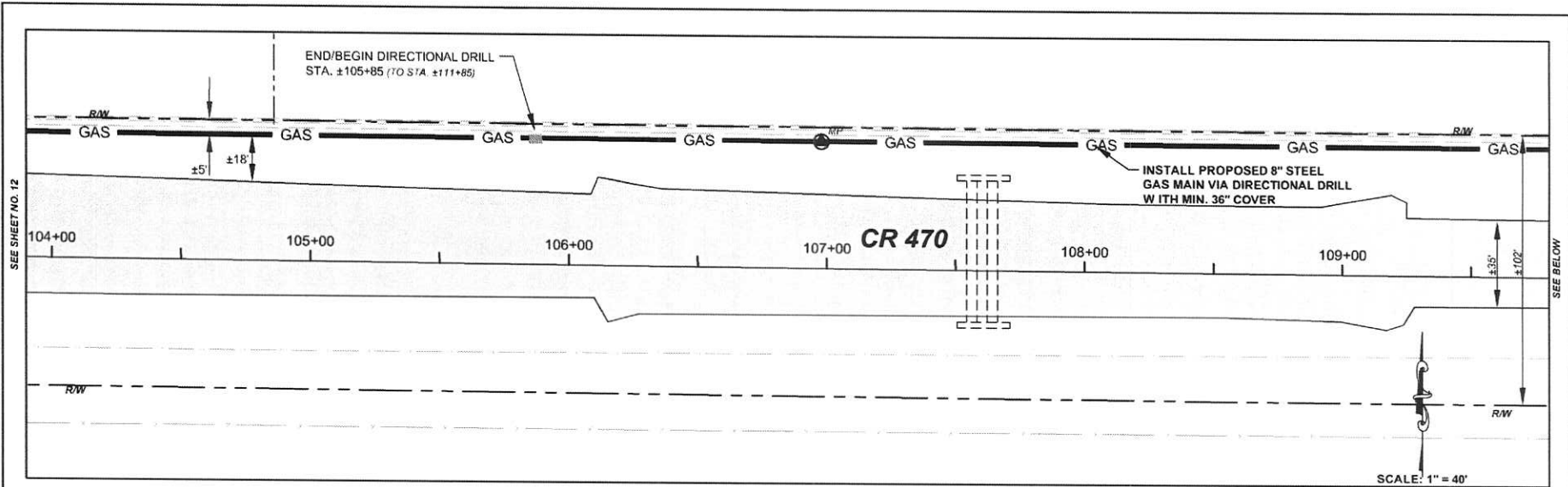


145 Hilden Road, Unit 108
 Ponte Vedra, FL 32081
 (904) 342-5199
 CERTIFICATE OF AUTHORIZATION NO. 29658

MICHAEL J. YURO, P.E.
 FLORIDA P.E. LICENSE NO. 65247
 REGISTERED PROFESSIONAL

CR 470 - GAS MAIN INSTALLATION
 PREPARED FOR
 TECO - PEOPLES GAS SYSTEMS, INC.
 SITE PLAN

SHEET NO.	12
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NO.	DATE	REVISIONS

PROJECT NO.	Y17-134
DRAWN BY	NDG
CHECKED BY	MJY
DATE	6-22-18

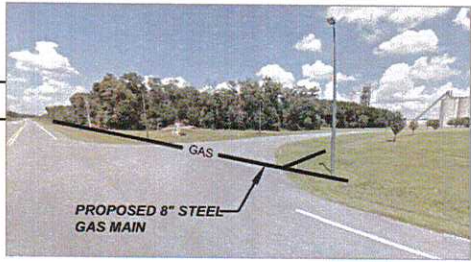
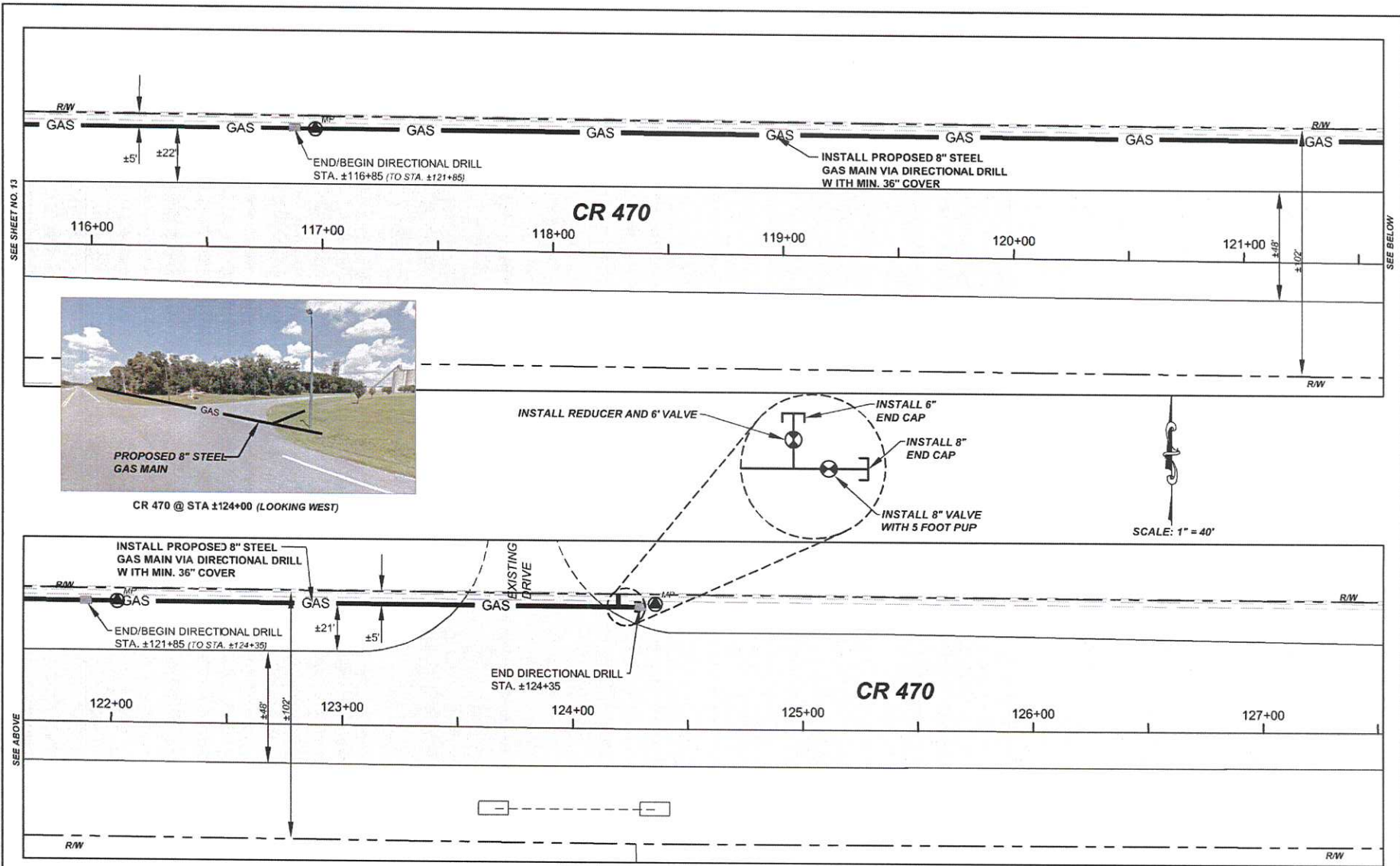


145 Hidden Road, Unit 108
 Ponte Vedra, FL 32081
 (904) 342-5199
 CERTIFICATED AUTHORIZATION NO. 2968

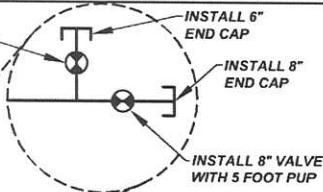
MICHAEL J. YURO, P.E.
 FLORIDA P.E. LICENSE NO. 65247
 REGISTERED PROFESSIONAL

CR 470 - GAS MAIN INSTALLATION
 PREPARED FOR
TECO- PEOPLES GAS SYSTEMS, INC.
 SITE PLAN

SHEET NO.
13

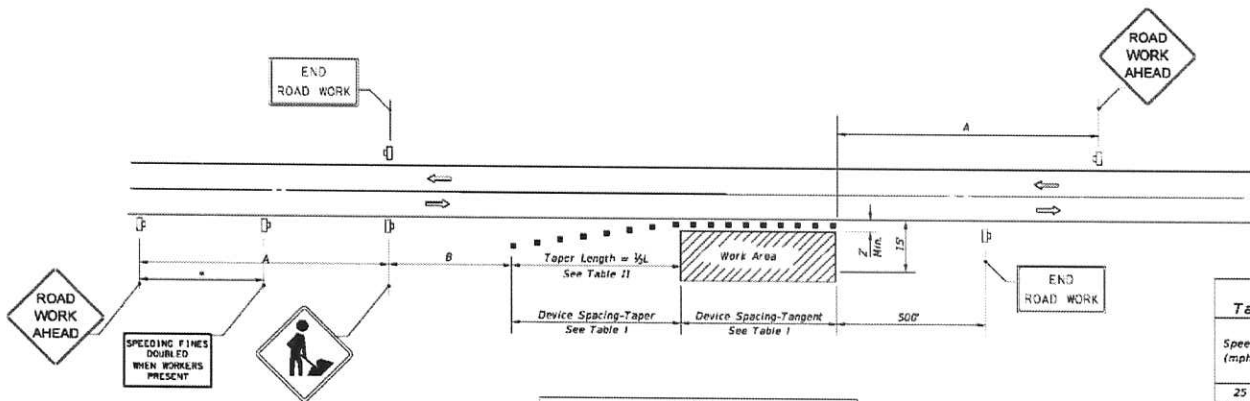


CR 470 @ STA ±124+00 (LOOKING WEST)



SCALE: 1" = 40'

NO.	DATE	REVISIONS	PROJECT NO.	Y17-434		145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5179	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO - PEOPLES GAS SYSTEMS, INC. SITE PLAN	SHEET NO.			
			DRWN BY	NDG								14
			CHECKED BY	MJY								
			DATE	6/22/18								



Speed	Spacing (ft.)	
	A	B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*Midway between signs.

Speed (mph)	Max. Distance Between Devices (ft.)			
	Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

Speed (mph)	1/2 L (ft.)			Notes
	8' Shldr.	10' Shldr.	12' Shldr.	
25	28	35	42	L = WS* 60
30	40	50	60	
35	55	68	82	
40	72	90	107	
45	120	150	180	L = WS
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width

1/2 L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

- Work Area
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

- When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index No. 603.
- SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
- For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Signs and channelizing devices may be omitted if all of the following conditions are met:
 - Work operations are 60 minutes or less.
 - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRoACH THE AREA CLoSER THAN 15' BUT NOT CLoSER THAN 2' TO THE EDGE OF TRAVEL WAY.

LAST REVISION	DESCRIPTION:
07/01/15	

FDOT
FY 2017-18
DESIGN STANDARDS

TWO-LANE, TWO-WAY, WORK ON SHOULDER

INDEX NO. 602	SHEET NO. 1 of 1
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NO.	DATE	REVISIONS	PROJECT NO. V17-151	 145 Hidden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION No. 2668	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	CR 470 - GAS MAIN INSTALLATION PREPARED FOR TECO-PEOPLES GAS SYSTEMS, INC. MOT SHEETS	SHEET NO. 15
			DRAWN BY: MTY				
			CHECKED BY: MJY				
			DATE: 6/22/18				



NE 32nd DR

C-470E

2.45 miles

NE 50th WAY

0.73 mile

NE 54th TER

City of Leesburg

American
Cement

Coleman Federal
Prison

City

tabbles®

EXHIBIT

2