

CONSTRUCTION PLANS

PROPOSED GAS MAIN IMPROVEMENTS

REPLACE EXISTING GAS MAIN ALONG NW 32nd STREET

MIAMI, 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 PREPARIORY TO EXCAVATING AND ALSO FAMILIARIZE HIMSELF WITH ALL VOLTAGES CARRIED IN OVERGROUND 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 RAW 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 WHATSOEVER 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 CONTRACTORS 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."

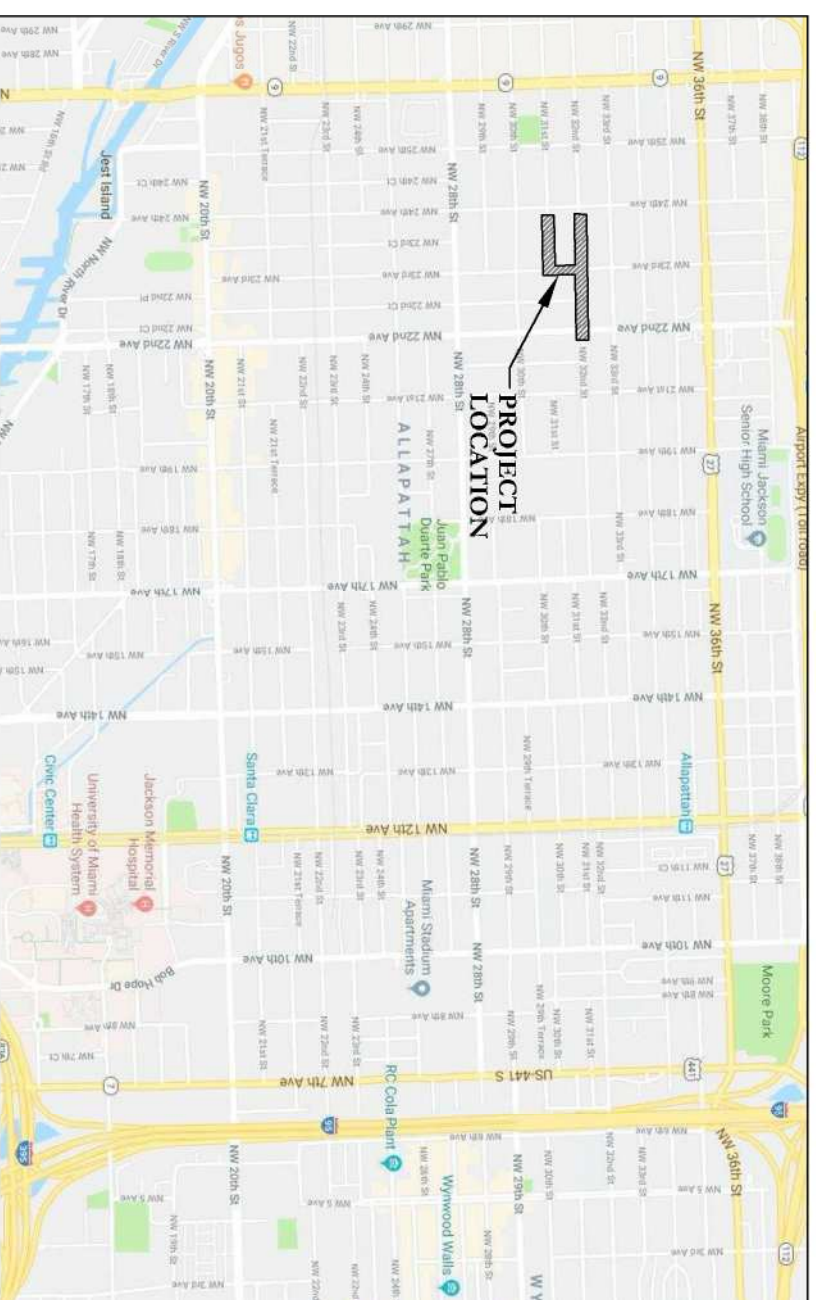
CALL 48 HOURS BEFORE YOU DIG IN FLORIDA



1-800-432-4770

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

PROJECT NO. D0065407



VICINITY MAP

Not To Scale

SHEET INDEX

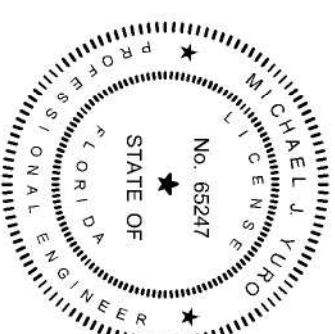
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2. GENERAL NOTES
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- 10 - 11. SWPPP

100% SUBMITTAL

4/24/2018



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



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NO.	DATE	REVISIONS

PROJECT NO. Y18 - 566
 DRAWN BY: GPY
 CHECKED BY: MY
 DATE: 4/24/18

145 Hidden Road, Unit 108
 Ponte Vedra, FL 32081
 (904) 342-5199

CERTIFICATE OF AUTHORIZATION NO. 28658

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

NW 32nd STREET - GAS MAIN REPLACEMENT
 PREPARED FOR:
 TECO- PEOPLES GAS SYSTEMS, INC.
 COVER SHEET

SHEET NO.
1

GENERAL NOTES:

1. ALL WORK SHALL BE COMPLETED IN CONFORMANCE AS APPLICABLE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND ENGINEERING DEPARTMENT.
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 OR 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 AND/OR RELOCATION OF SAME IF REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES TO 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 HIS OWN EXPENSE.
8. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY INSURANCE AND BONDS REQUESTED BY THE OWNER FOR THIS PROJECT.
9. THE OWNER WILL PROVIDE THE SELECTED CONTRACTOR WITH COPIES OF ALL PERMITS RECEIVED FOR THE PROJECT.
10. ANY N.G.V.D. (899 MONUMENT(S) WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE PROJECT CONTRACTOR SHOULD NOTIFY:

 GEODETIC INFORMATION CENTER
 ATTN: MARK MAINTENANCE SECTION, ATTN: N.G.V.D. #2
 601 EXECUTIVE BROWLELAND
 ROCKVILLE, MARYLAND 20852
 TELEPHONE No. (301) 463-8379
11. BENCH MARK DATA BASE IS NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929.
12. THE CONTRACTOR SHALL PROTECT AND USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.
13. ALL PROPERTY CORNERS AND SURVEY MONUMENTS, WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED, THE PROJECT ENGINEER AND OWNER SHOULD BE NOTIFIED IMMEDIATELY IN ORDER THAT THE COUNTY MAY HAVE A SURVEYOR REFERENCE SAID POINT PRIOR TO DISTURBANCE. ALSO ALL G.P.S. CONTROL POINTS ARE TO BE PROTECTED. IF DESTROYED DURING CONSTRUCTION IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE THE CONTROL POINT(S) AT THEIR EXPENSE.
14. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE, AT ALL TIMES, ONE COPY OF APPROVED CONSTRUCTION PLANS, SPECIFICATIONS, ANY SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS IN COMPLIANCE WITH ALL PERMITTEE AGENDA.
15. SUBMITTAL OF AS-BUILT SITE SURVEY, INCLUDING BENCH 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, FEASIBILITY OF THE DRILL, TO AVOID CONFLICT WITH UNDERGROUND UTILITIES AND TO MAINTAIN VEHICLE TRAFFIC AS BEST AS POSSIBLE, AS APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.
17. CONTRACTOR SHALL HAVE SURVEYOR VERIFY LOCATIONS OF ALL EXISTING RIGHT-OF-WAY LINES AND TO ADJUST LOCATION OF PROPOSED PIPE AS CLOSE TO THE RIGHT-OF-WAY AS POSSIBLE PER TECO GAS PREFERENCE.
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, WHEREVER POSSIBLE.
19. CONTRACTOR MAY CHOOSE TO DRILL SHORTER OR LONGER SECTIONS AS NECESSARY TO AVOID CONFLICT 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 R/W DEPARTMENT PRIOR TO ANY ROADWAY CUT.

MAINTENANCE OF TRAFFIC NOTES:

1. THE CONTRACTOR SHALL INSTALL STAND MOUNTED ADVANCE CONSTRUCTION SIGNING IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX NO. 802 FOR ANY WORK LESS THAN 15 FEET FROM EDGE OF PAVEMENT.
2. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 16 FEET FROM THE EDGE OF EXISTING PAVEMENT OR AS FAR AWAY AS POSSIBLE WITHIN THE R/W LIMITS, AND SHALL BE PROTECTED BY THE 11 BARRICADES WITH FLASHING YELLOW LIGHTS.
3. THERE SHALL BE NO EXCAVATIONS LEFT OPEN AFTER DARK.
4. THE CONTRACTOR SHALL NOTIFY ALL LOCAL MUNICIPALITIES AS WELL AS THE FOOT OFFICE 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE SUNSHINE STATE ONE CALL SYSTEM AT (800) 432-4770 FOR LOCATION OF UNDERGROUND UTILITIES.
6. NOT INDEXES SHOWN IN THIS PLAN SET MAY NOT COVER ALL WORK APPLICATIONS ENCOUNTERED FOR THIS EFFORT. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL APPLICABLE FOOT STANDARDS FOR MAINTENANCE OF TRAFFIC ARE FOLLOWED.

PAVING AND DRAINAGE NOTES:

1. ALL BACKFILL OVER UTILITIES LOCATED UNDER PROPOSED PAVEMENT AREAS SHALL BE COMPACTED PER F.D.O.T. STANDARD SPECIFICATIONS, SECTION 125.8.3, TO 98% OF THE MAXIMUM DENSITY PER AASHTO T-99.
2. ADJUSTMENT OF INLET TOPS SHALL BE INCLUDED IN THE CONTRACTORS BID. NO CLAIM SHALL BE MADE AGAINST THE OWNER AND/OR ENGINEER IN THE EVENT ADJUSTMENTS ARE NECESSARY.
3. CONTRACTOR SHALL COORDINATE CONNECTIONS TO EXISTING STORM DRAINAGE FACILITIES AND SHALL VERIFY LOCATION AND ELEVATION OF SAID FACILITIES PRIOR TO THE START OF CONSTRUCTION. ANY FACILITIES DISTURBED SHALL BE REPAIRED TO EQUAL OR BETTER THAN EXISTING CONDITIONS.
4. THE OWNER RESERVES THE RIGHT TO REQUEST FROM THE CONTRACTOR ASPHALTIC CONCRETE SURFACE COURSE MIX CERTIFICATIONS TO ASSURE COMPLIANCE WITH F.D.O.T. SPECIFICATIONS.
5. EXTRA BASE MATERIAL SHALL BE REQUIRED AT CROSS CULVERTS WHEN COVER DIMENSION IS LESS THAN 12" BELOW BOTTOM OF BASE (F.D.O.T. INDEX NO. 205).

CLEAN UP & RESTORATION NOTES:

1. CONTRACTOR SHALL CLEAN UP AND PROPERLY DISPOSE OF ALL DEBRIS AND SHALL MEET ALL AGENCIES STANDARDS.
2. CONTRACTOR SHALL RESTORE ALL ITEMS TO THE EXISTING CONDITIONS OR BETTER. ITEMS INCLUDE BUT NOT LIMITED TO CONCRETE DRIVEWAY, DRIVEWAY APPROX. MAIL BOXES, DITCH, CONCRETE SIDEWALK, TREES, LANDSCAPING, UNDERGROUND UTILITIES, ABOVEGROUND UTILITIES, AND GRASS.
3. NO OPEN HOLES SHALL REMAIN OPEN OVERNIGHT WITHOUT PRIOR APPROVAL FROM CITY, COUNTY, AND/OR FOOT R/W DEPARTMENT.
4. NO PAVEMENT IS PROPOSED TO BE CUT. CONTRACTOR IS RESPONSIBLE TO OBTAIN APPROVAL FROM FOOT, CITY OR COUNTY FOR ANY ROAD CUT DUE TO CONSTRUCTION.
5. THE DIRECTIONAL DRILL CONTRACTOR SHALL CONTAIN THE DRILLING MUD, BENTONITE CLAY, AND DISPOSE OF THE MATERIAL 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 OUTSIDE OF THE CONTAINMENT AREA.
6. ALL DRIVES DAMAGED OR OPEN CUT DUE TO CONSTRUCTION ACTIVITIES SHALL BE REPLACED 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 CONSTRUCTION JOINT. ALL DRIVES SHALL BE SAW CUT.
7. ALL DISTURBED ASPHALT OR CONCRETE, INCLUDING ROADWAYS, PATHS, DRIVES, ETC. SHALL BE RESTORED TO THEIR ORIGINAL DESIGN SPECS OR THE LATEST FOOT/CITY REPAIR SPECS, AS APPROPRIATE.

SITE PREPARATION NOTES:

- NORMAL, GOOD PRACTICE SITE PREPARATION PROCEDURES SHALL BE USED FOR THIS PROJECT. THESE PROCEDURES INCLUDE: STRIPPING THE SITE OF EXISTING VEGETATION AND TOPSOIL, COMPACTING THE SUBGRADE AND PLACING NECESSARY FILL OR BACK FILL TO GRADE WITH ENGINEERED FILL. A MORE DETAILED SYNOPSIS OF THIS WORK IS AS FOLLOWS:
1. PRIOR TO CONSTRUCTION, THE LOCATION OF ANY EXISTING UNDERGROUND UTILITY LINES WITHIN THE CONSTRUCTION AREA SHOULD BE ESTABLISHED. PROVISIONS SHOULD THEN BE MADE TO RELOCATE INTERFERING UTILITIES TO APPROPRIATE LOCATIONS. ABANDONED PIPES SHALL BE PROPERLY REMOVED OR PLUGGED AS THEY MAY SERVE AS CONDUITS FOR SUB-SURFACE EROSION WHICH MAY SUBSEQUENTLY LEAD TO EXCESSIVE SETTLEMENT OF OVERLAY STRUCTURE(S).
 2. IT IS RECOMMENDED THE TOP OF THE CLAYEY SANDS BE MAINTAINED A MINIMUM OF 2 FEET BELOW THE PROPOSED BOTTOM OF THE BASE MATERIAL OR CONCRETE PAVEMENT. IF THE SITE GRADING IS SUCH THAT THE MINIMUM SEPARATION DOES NOT EXIST, THE RECOMMEND UNDERCUTTING THE CLAYEY MATERIALS TO MAINTAIN THIS SEPARATION AND BACK FILLING WITH CLEAN STRUCTURAL FILL, AS DESCRIBED BELOW.
 3. COMPACT THE SUBGRADE FROM THE SURFACE WITH A LIGHT WEIGHT VIBRATORY ROLLER (A 2 TO 3 TON ROLLER, STATIC WEIGHT AND 3 FOOT DRUM DIAMETER) OR TRACKED DOZER EQUIPMENT UNTIL A MINIMUM DENSITY OF AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557), TO A DEPTH OF 12 INCHES BELOW THE COMPACTED SURFACE IS OBTAINED. A MINIMUM OF EIGHT (8) COMPLETE COVERAGES SHOULD BE MADE IN THE PAVEMENT CONSTRUCTION AREA WITH A ROLLER TO IMPROVE THE UNIFORMITY AND INCREASE THE DENSITY OF THE UNDERLYING SANDY SOILS. THE USE OF HEAVY VIBRATORY COMPACTOR EQUIPMENT SHALL NOT BE UTILIZED DUE TO THE POTENTIAL FOR PUMPING OF THE NEAR CLAYEY SOILS ENCOUNTERED, UNLESS APPROVED BY THE ENGINEER.

SHOULD THE SUBGRADE SOILS EXPERIENCE PUMPING AND SOIL STRENGTH LOSS DURING THE COMPACTON OPERATIONS, COMPACTATION WORK SHOULD BE IMMEDIATELY TERMINATED AND (1) THE DISTURBED SOILS REMOVED AND BACKFILLED WITH DRY STRUCTURAL FILL SOILS WHICH ARE THEN COMPACTED, OR (2) THE EXCESS PORE PRESSURES WITHIN THE DISTURBED SOILS ALLOWED TO DISSIPATE BEFORE RECOMPACTING.

TO AVOID PUMPING OF THE UNDERLYING CLAYEY SOILS, SELF PROPELLED VIBRATING EQUIPMENT SHALL REMAIN A MINIMUM OF 2 FEET ABOVE THE CLAYEY SOILS. THE SANDY SOILS WITHIN 2 FEET OF THE CLAYEY SOILS MAY BE COMPACTED WITH A VIBRATORY ROLLER.

OPERATE IN THE STATIC MODE OR WITH A TRACK DOZER TO AVOID DISTURBING THE CLAYEY SOILS. A MINIMUM OF 18 INCHES OF SAND SHALL OVERLAY THE CLAYEY SOILS PRIOR TO OPERATION OF ANY TYPE OF CONSTRUCTION EQUIPMENT. EXCESS DISTURBANCE OF THE CLAYEY SOILS WILL DEGRADE THE STRENGTH CHARACTERISTICS OF THE SOIL AND MAY RESULT IN AN UNSUITABLE SOIL WHICH WILL REQUIRE OVER AND SUBSEQUENT BACKFILLING WITH CLEAN FINE SAND FILL MATERIAL. IN AREAS WHERE CLAYEY SOILS ARE ENCOUNTERED NEAR THE GROUND SURFACE OR ARE EXPOSED BY OVER EXCAVATION, AN INITIAL LIFT OF STRUCTURAL FILL MAY BE PLACED PRIOR TO COMPACTATION OF THE SUBGRADE SOILS.

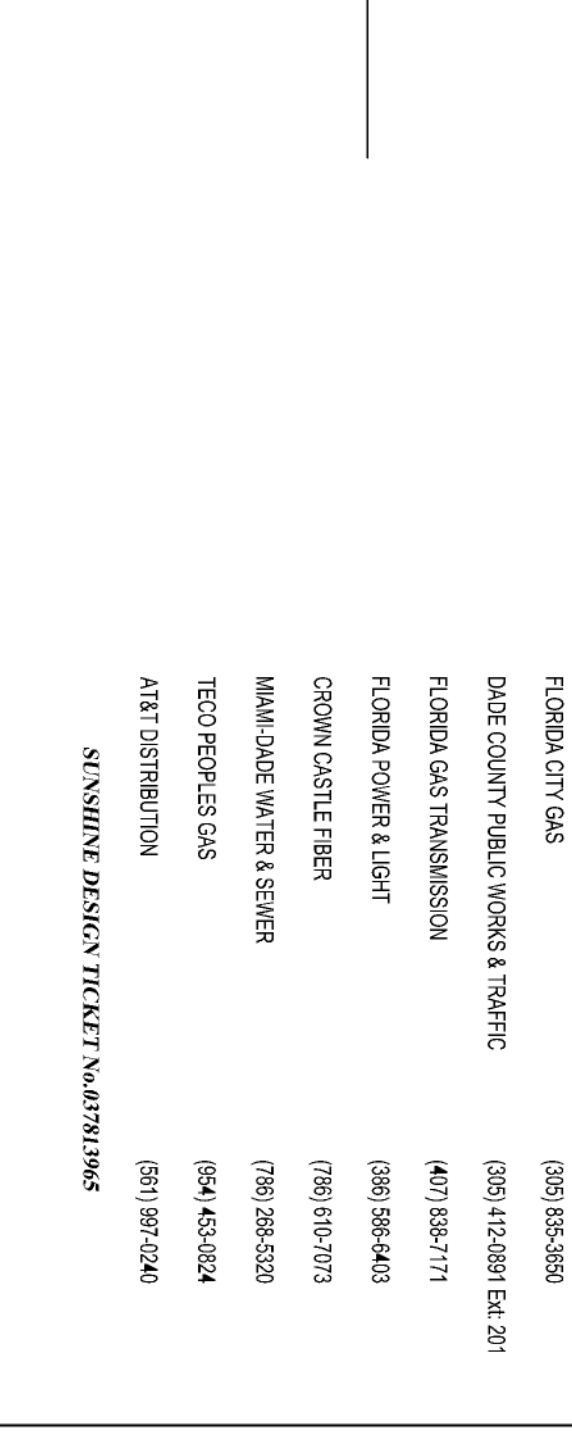
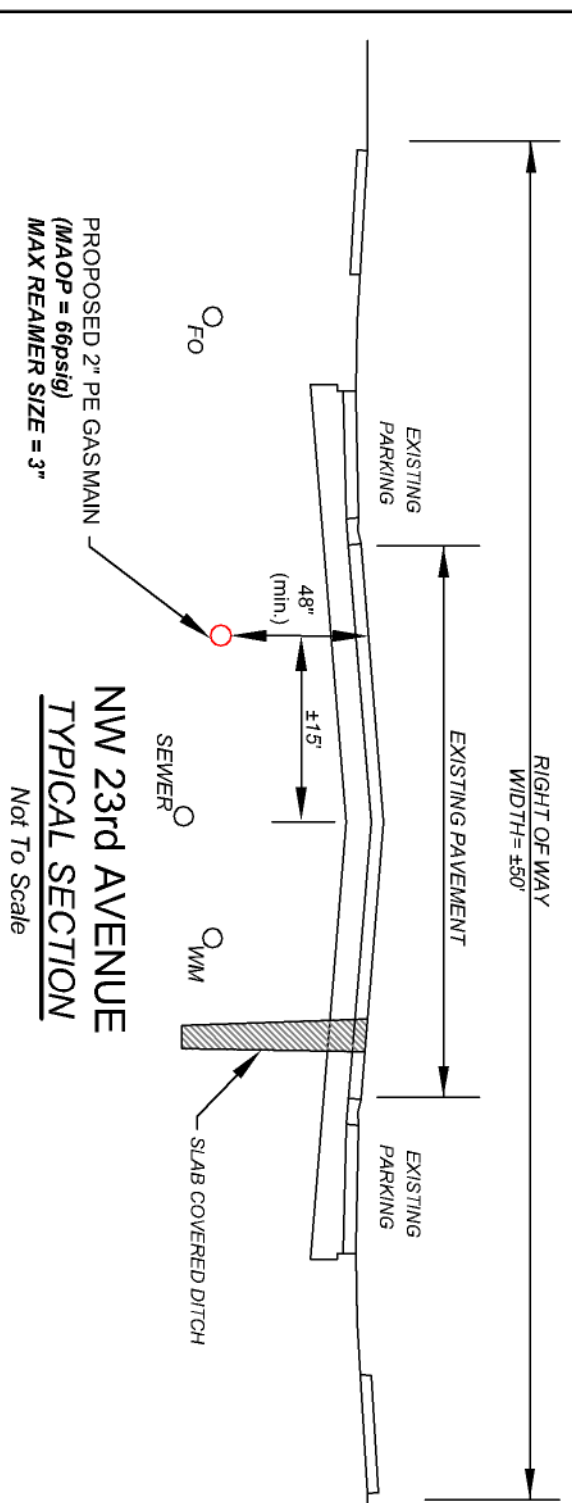
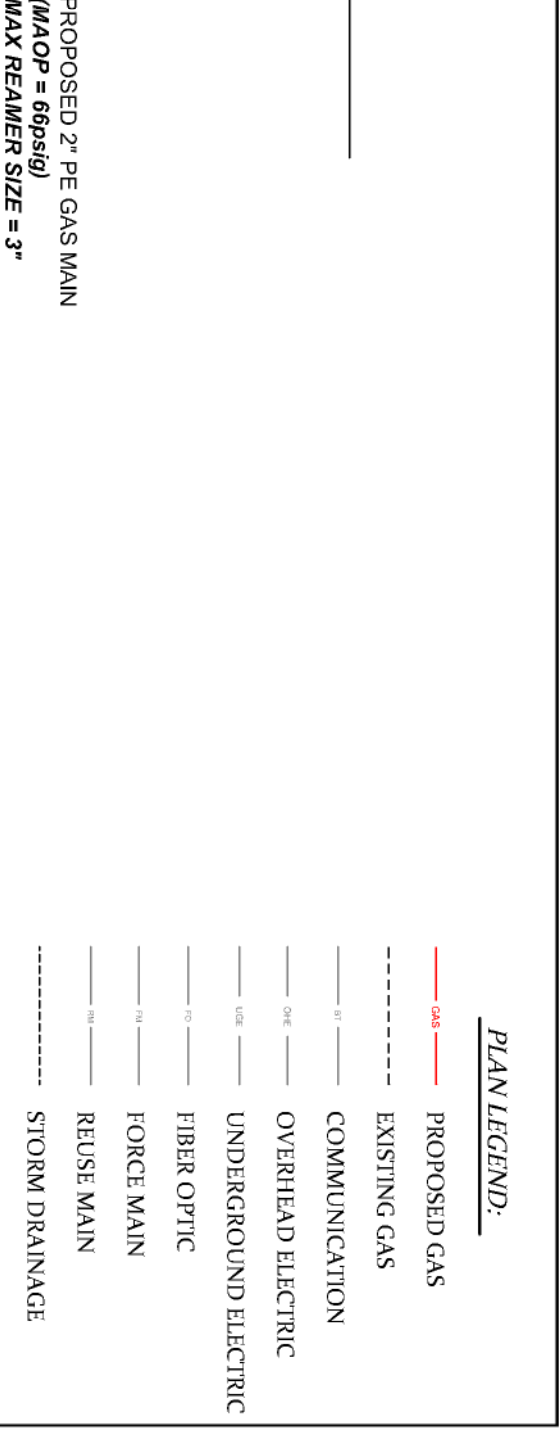
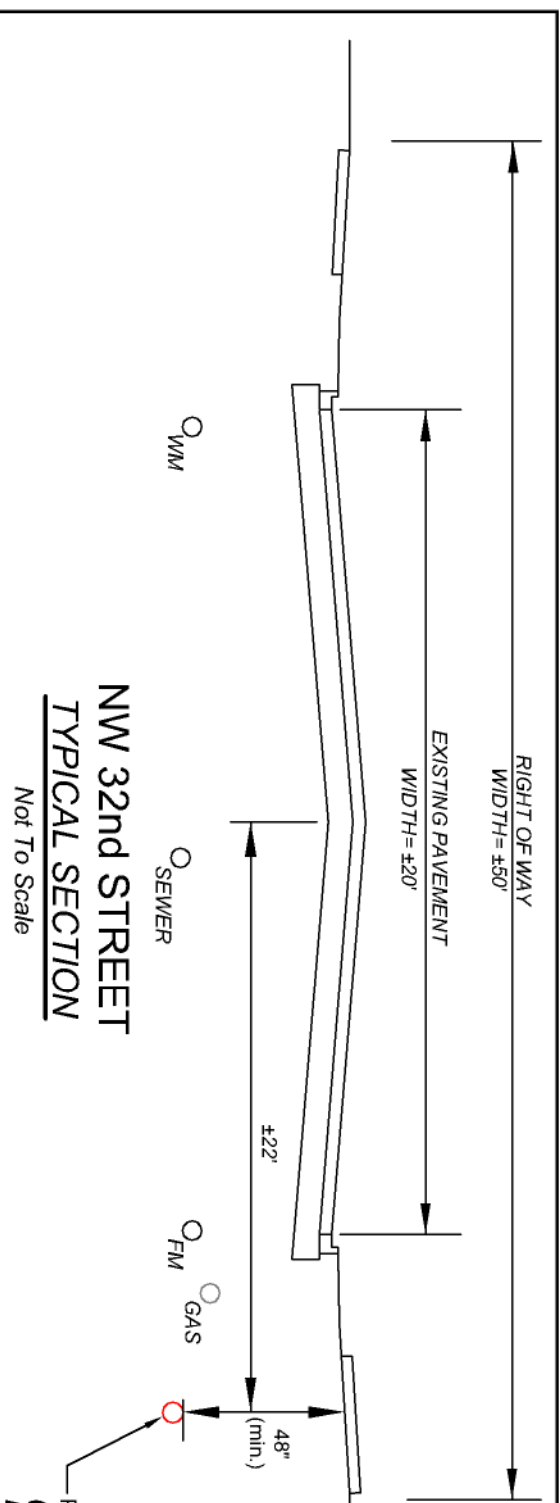
DUE TO THE PRESENCE OF THE NEAR SURFACE CLAYEY SOILS, THE SITE MAY BECOME DIFFICULT TO WORK DURING WET WEATHER. IF CONSTRUCTION IS BEGUN DURING WET WEATHER, IT IS RECOMMENDED THE BUILDING AND PAVEMENT SUBGRADES NOT BE DISTURBED OTHER THAN TO STRIP VEGETATION, FILL AND GRADING OPERATIONS SHOULD BE PERFORMED WITH A MINIMUM DISTURBANCE TO THE SURFICIAL SOILS. IN THIS REGARD, IT IS RECOMMENDED THAT TRACK EQUIPMENT BE USED ON SITE.

4. TEST THE SUBGRADE FOR COMPACTON AT A FREQUENCY OF NOT LESS THAN ONE TEST PER 10,000 SQUARE FEET.
5. PLACE FILL MATERIAL, AS REQUIRED, THE FILL SHOULD CONSIST OF CLEAN, FINE SAND WITH LESS THAN 10 PERCENT SOIL FINES, PLACE FILL IN UNIFORM 10 TO 12 INCH LIFTS AND COMPACT EACH LIFT TO A MINIMUM DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY.
6. CONTRACTOR SHALL OBTAIN RECORD/EVIDENCE OF ALL EXISTING FEATURES VIA VIDEO TAPING OR PHOTOGRAPHS 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 SOD ALL OPEN SPACE AREAS TO BE GRASSED IMMEDIATELY FOLLOWING FINAL GRADING AND COMPLETION OF ALL UNDERGROUND UTILITIES.
3. SILT FENCES SHALL BE INSTALLED ALONG LIMITS OF CONSTRUCTION.
4. SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND REPAIRED IMMEDIATELY IF DAMAGED.
5. ALL SIDE SLOPES OF STORM WATER MANAGEMENT AREAS SHALL BE SODED UPON COMPLETION OF FINAL GRADING.
6. ALL INLETS SHALL BE PROTECTED FROM COLLECTION OF ERODED MATERIALS BY INSTALLATION OF TEMPORARY FILTER FABRIC AND/OR HAYBALES.
7. FLOATING TURBIDITY BARRIERS SHALL BE INSTALLED WITHIN ALL WATER BODIES DOWNSTREAM OF CONSTRUCTION ACTIVITIES WHERE PROTECTION AGAINST TURBID WATERS DISCHARGE MAY OCCUR.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NPDES PERMIT PRIOR TO THE START OF CONSTRUCTION.

NO.	DATE	REVISIONS	PROJECT NO.	Y18 - 566		145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION NO. 28658	MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	NW 32nd STREET - GAS MAIN REPLACEMENT PREPARED FOR: TECO - PEOPLES GAS SYSTEMS, INC.	SHEET NO.
			DRAWN BY:	GPY					



PLAN LEGEND:

- PROPOSED GAS
- EXISTING GAS
- COMMUNICATION
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- FORCE MAIN
- REUSE MAIN
- STORM DRAINAGE
- SEWER
- WATER
- TYPICAL 4'x6' BORE PIT
- IN LINE VALVE
- END CAP
- MARKER POST

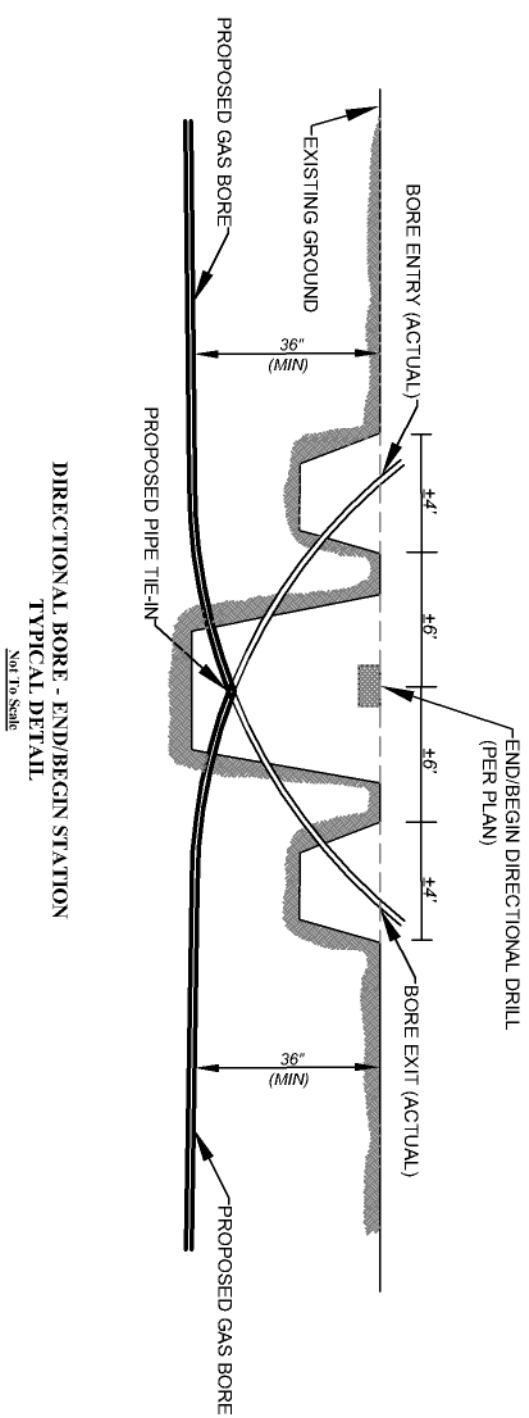
UTILITY CONTACT INFORMATION

(CONTRACTOR TO VERIFY CURRENT CONTACT INFORMATION)

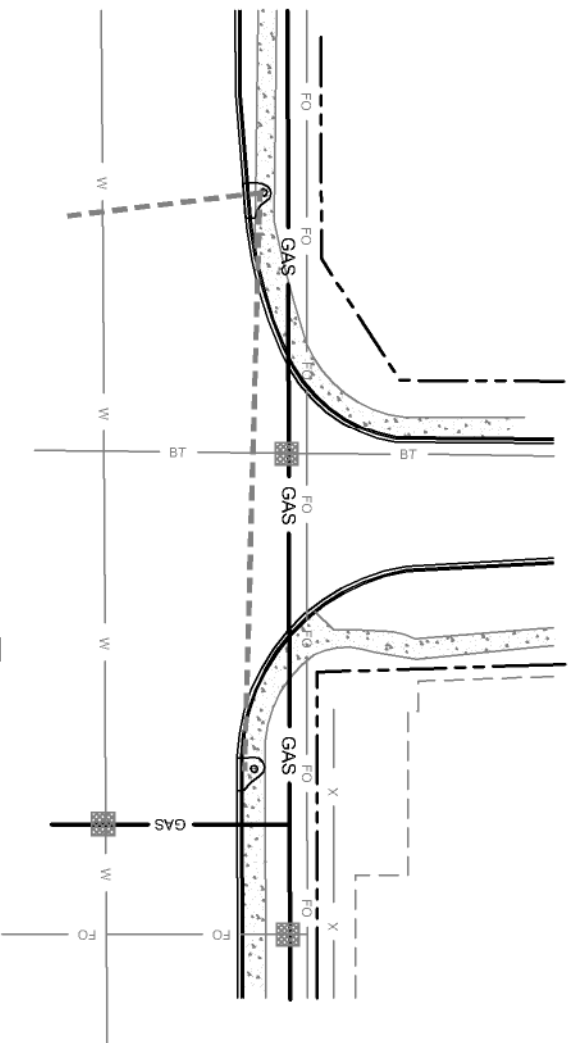
- COMCAST CABLE (954) 447-8405
- FLORIDA CITY GAS (305) 835-3650
- DADE COUNTY PUBLIC WORKS & TRAFFIC (305) 412-0891 Ext. 201
- FLORIDA GAS TRANSMISSION (407) 838-7171
- FLORIDA POWER & LIGHT (386) 586-6403
- CROWN CASTLE FIBER (786) 610-7073
- MIAMI-DADE WATER & SEWER (786) 268-5320
- TECO PEOPLES GAS (954) 453-0824
- AT&T DISTRIBUTION (561) 997-0240

SUNSHINE DESIGN TICKET No.037813965

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			DRAWN BY:	GPY			DETAILS	3
			CHECKED BY:	MY				
			DATE:	4/24/18	CERTIFICATE OF AUTHORIZATION NO. 2868			

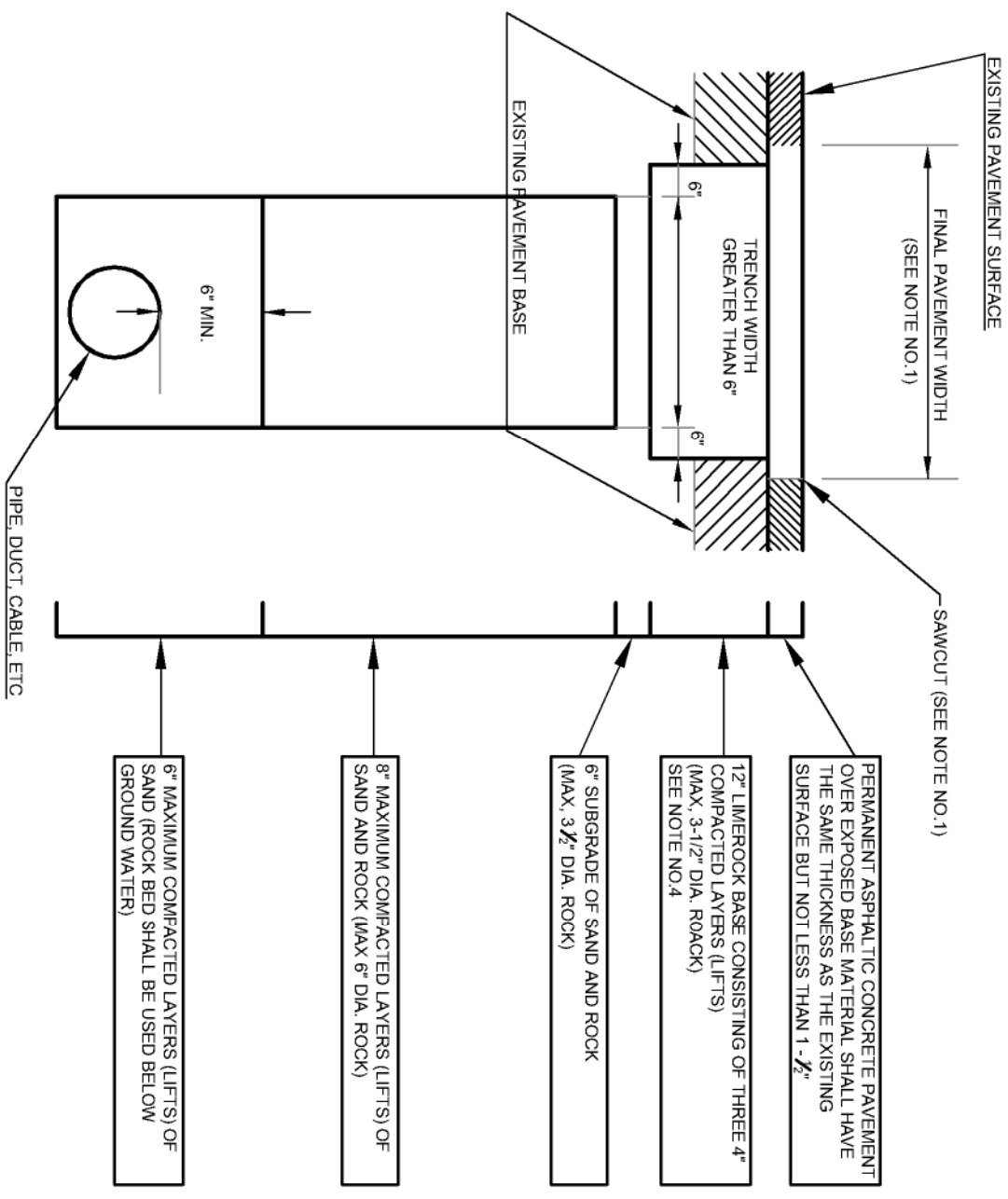


DIRECTIONAL BORE - END/BEGIN STATION
TYPICAL DETAIL
Not To Scale



POTHOLE
TYPICAL DETAIL
Not To Scale

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




1. FINAL PAVEMENT RESTORATION WIDTH SHALL BE IN ACCORDANCE WITH DEPARTMENT OF PUBLIC WORKS BULLETIN NO. 27.
2. EXISTING CONCRETE PAVEMENT OR CONCRETE BASE SHALL BE REPLACED WITH CONCRETE.
3. CONCRETE BASE SHALL BE REINFORCED WITH NO. 6 GAUGE, 6" BY 6" WIRE FABRIC. A MINIMUM OF ONE (1) CERTIFIED LABORATORY DENSITY TEST SHALL BE REQUIRED FOR EACH BACKFILL LAYER FOR EVERY FIFTY (50) LINEAR FEET OR LESS OF TRENCH.
4. TRENCH BACKFILL, INCLUDING TEMPORARY BASE AND SUBGRADE, SHALL BE COMPACTED TO A DENSITY NOT LESS THAN NINETY-FIVE PERCENT (95%) OF AASHTO T-180 (MODIFIED PROCTOR).
5. "CONTROLLED LOW STRENGTH MATERIAL" (FLOWABLE FILL) IN ACCORDANCE WITH F.D.O.T. STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 121, MAY BE SUBSTITUTED FOR SAND AND ROCK BACKFILL BETWEEN THE BOTTOM OF THE PAVEMENT BASE AND 6" ABOVE THE CROWN OF THE UTILITY. CERTIFICATION FROM THE FLOWABLE FILL SUPPLIER SHALL BE REQUIRED.

BACKFILL AND PERMANENT PAVEMENT STANDARDS
FOR TRENCHES GREATER THAN 6' IN WIDTH
IN THE PUBLIC RIGHT OF WAY
Not To Scale

NO.	DATE	REVISIONS

PROJECT NO. Y18 - 566
DRAWN BY: GPY
CHECKED BY: MLY
DATE: 4/24/18

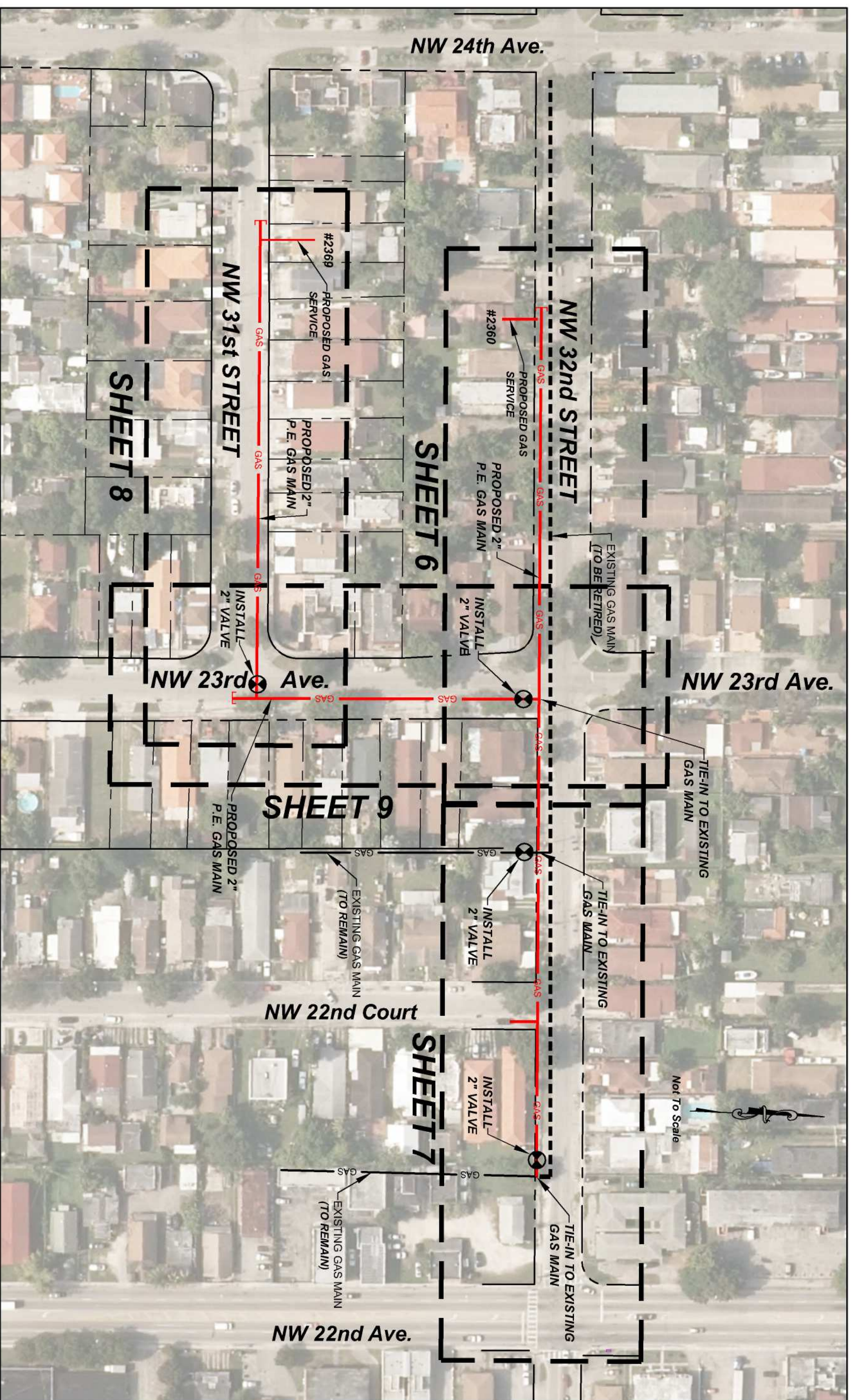


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Ponte Vedra, FL 32081
(904) 342-5199

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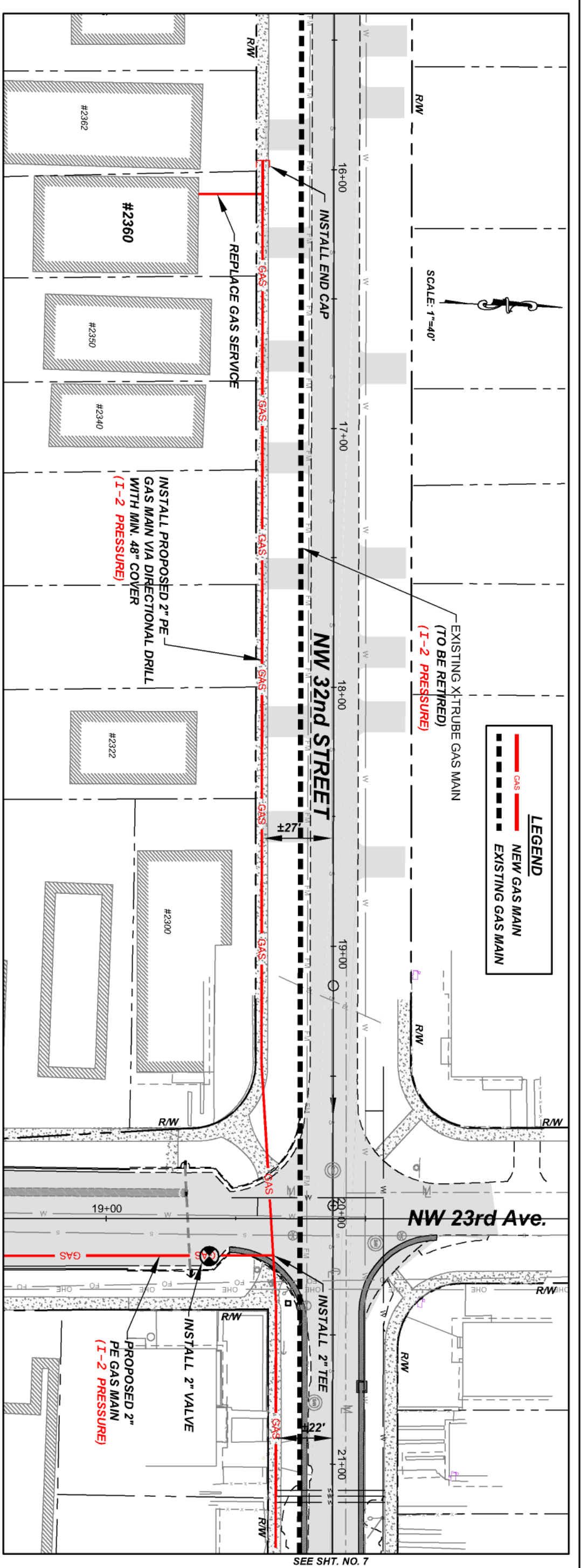
NW 32nd STREET - GAS MAIN REPLACEMENT
PREPARED FOR:
TECO - PEOPLES GAS SYSTEMS, INC.
DETAILS



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			CHECKED BY:	MY				
			DATE:	4/24/18				

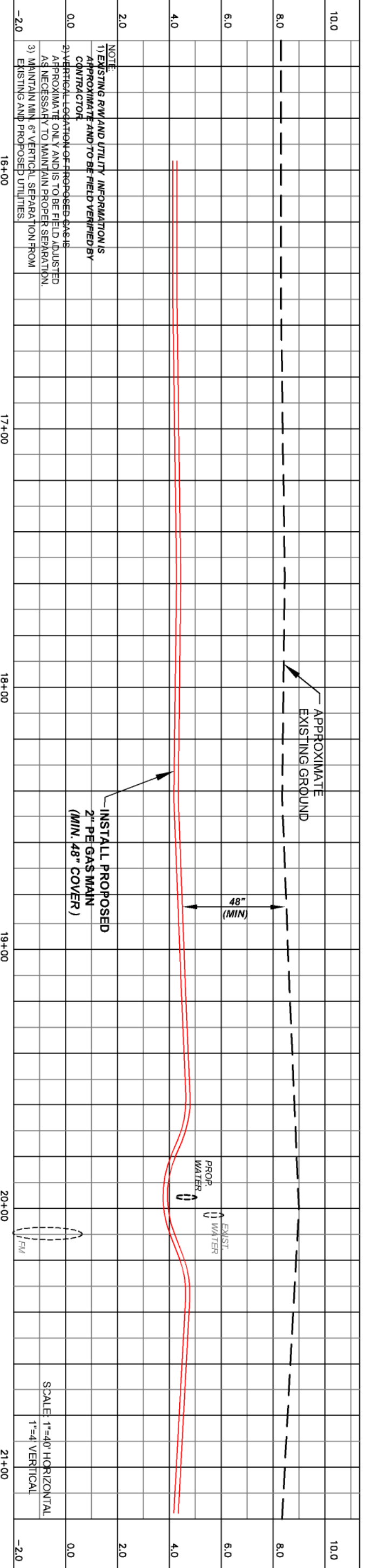


CERTIFICATE OF AUTHORIZATION NO. 2868



SCALE: 1"=40'

LEGEND	
	GAS NEW GAS MAIN
	EXISTING GAS MAIN



NOTE:
 1) EXISTING RW AND UTILITY INFORMATION IS APPROXIMATE AND TO BE FIELD VERIFIED BY CONTRACTOR.
 2) VERTICAL LOCATION OF PROPOSED GAS IS APPROXIMATE ONLY AND IS TO BE FIELD ADJUSTED AS NECESSARY TO MAINTAIN PROPER SEPARATION.
 3) MAINTAIN MIN. 6" VERTICAL SEPARATION FROM EXISTING AND PROPOSED UTILITIES.

SCALE: 1"=40' HORIZONTAL
 1"=4' VERTICAL

NO.	DATE	REVISIONS	PROJECT NO.	Y18 - 566	145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199	MICHAEL J. YURO, P.E.	NW 32nd STREET - GAS MAIN REPLACEMENT	SHEET NO.
			DRAWN BY:	GPY		FLORIDA P.E. LICENSE NO. 65247	TECO - PEOPLES GAS SYSTEMS, INC.	6
			CHECKED BY:	MYJ		REGISTERED PROFESSIONAL	PLAN AND PROFILE	
			DATE:	4/24/18				

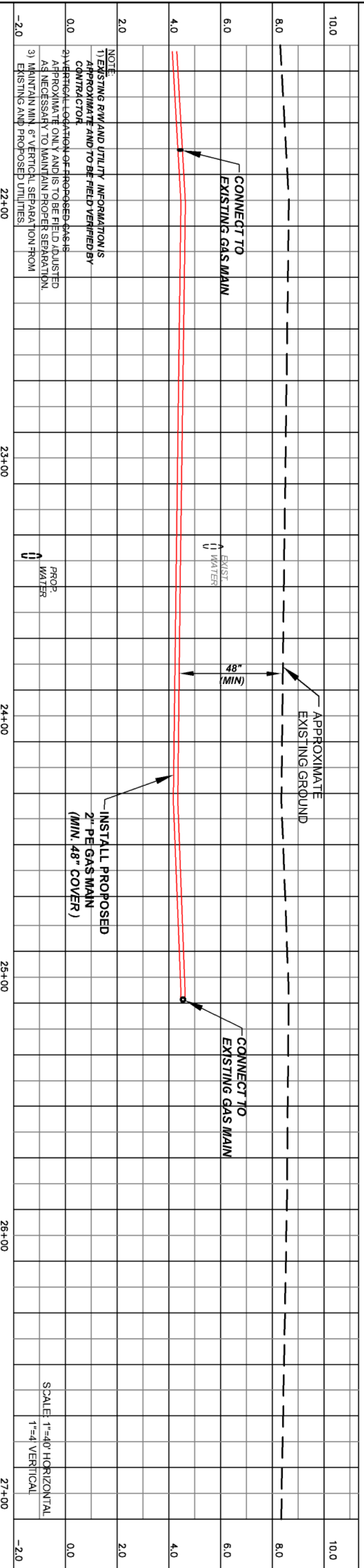
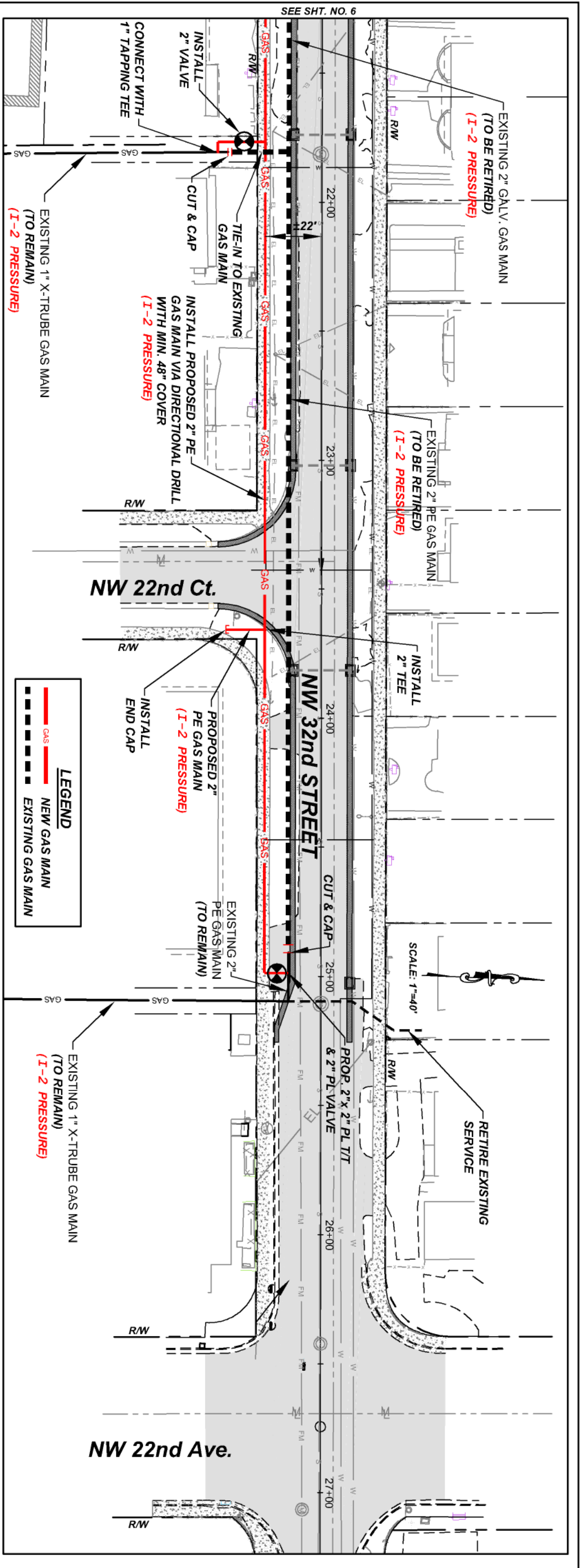


CERTIFICATE OF AUTHORIZATION NO. 28658

REGISTERED PROFESSIONAL

PREPARED FOR:
 TECO - PEOPLES GAS SYSTEMS, INC.

SHEET NO. 6



NOTE:
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 2) VERTICAL LOCATION OF PROPOSED GAS MAIN IS APPROXIMATE ONLY AND IS TO BE FIELD ADJUSTED AS NECESSARY TO MAINTAIN PROPER SEPARATION.
 3) MAINTAIN MIN. 6" VERTICAL SEPARATION FROM EXISTING AND PROPOSED UTILITIES.

SCALE: 1"=40' HORIZONTAL
 1"=4' VERTICAL

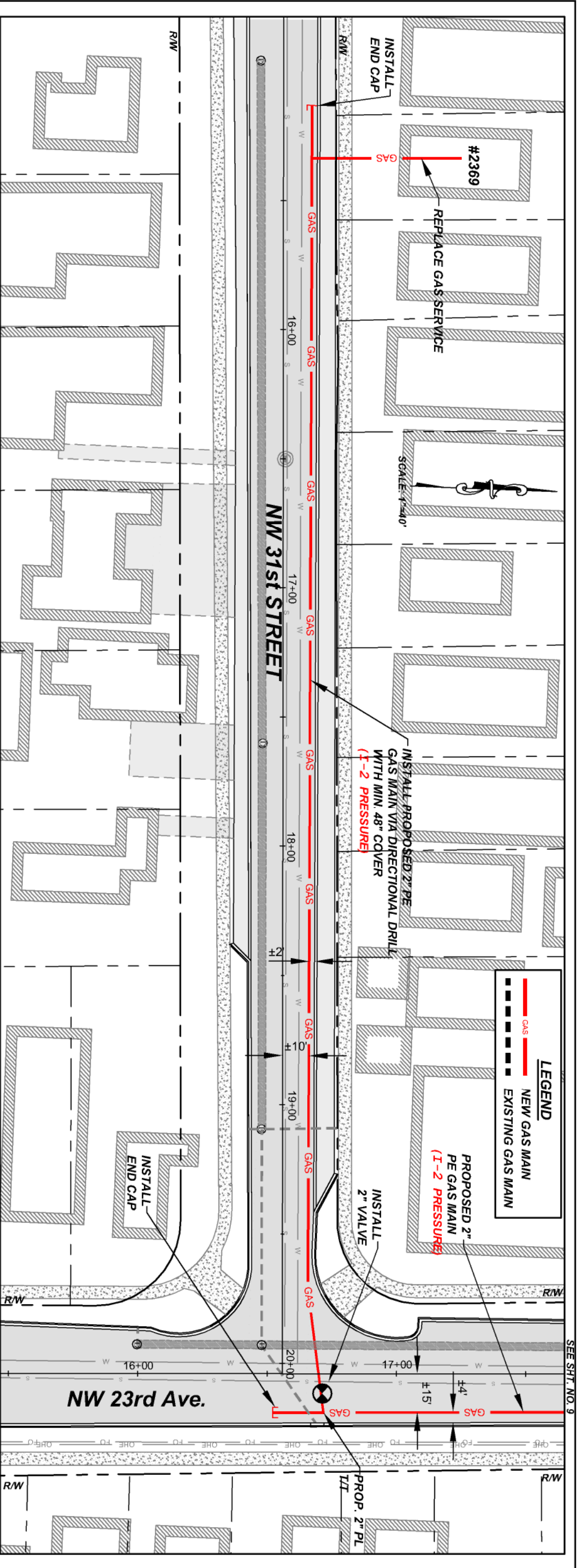
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PROJECT NO.	Y18 - 566
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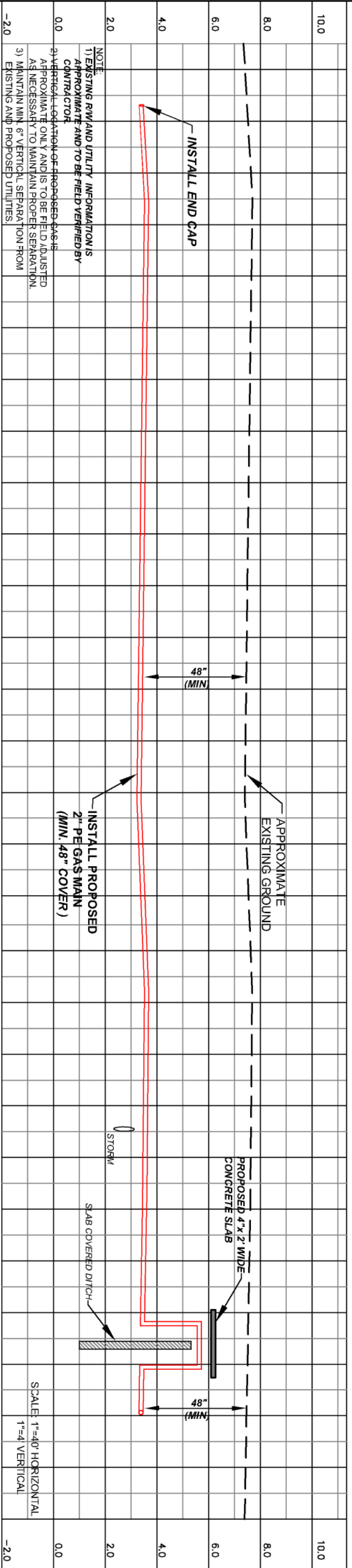
145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199	Yuro & Associates, Inc.
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MICHAEL J. YURO, P.E.	REGISTERED PROFESSIONAL.
FLORIDA P.E. LICENSE NO. 65247	

NW 32nd STREET - GAS MAIN REPLACEMENT	SHEET NO. 7
PREPARED FOR: TECO - PEOPLES GAS SYSTEMS, INC.	
PLAN AND PROFILE	



SEE SHIT. NO. 9



NOTE:
 1) EXISTING RW AND UTILITY INFORMATION IS APPROXIMATE AND TO BE FIELD VERIFIED BY CONTRACTOR.
 2) VERTICAL LOCATION OF PROPOSED GAS IS APPROXIMATE ONLY AND IS TO BE FIELD ADJUSTED AS NECESSARY TO MAINTAIN PROPER SEPARATION.
 3) MAINTAIN MIN. 6\"/>

16+00 17+00 18+00 19+00 20+00

NO.	DATE	REVISIONS

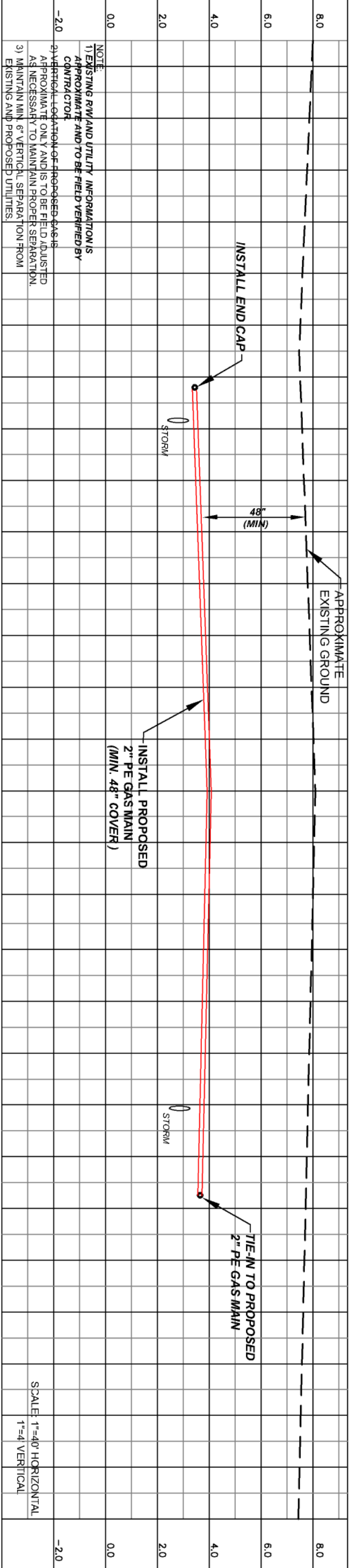
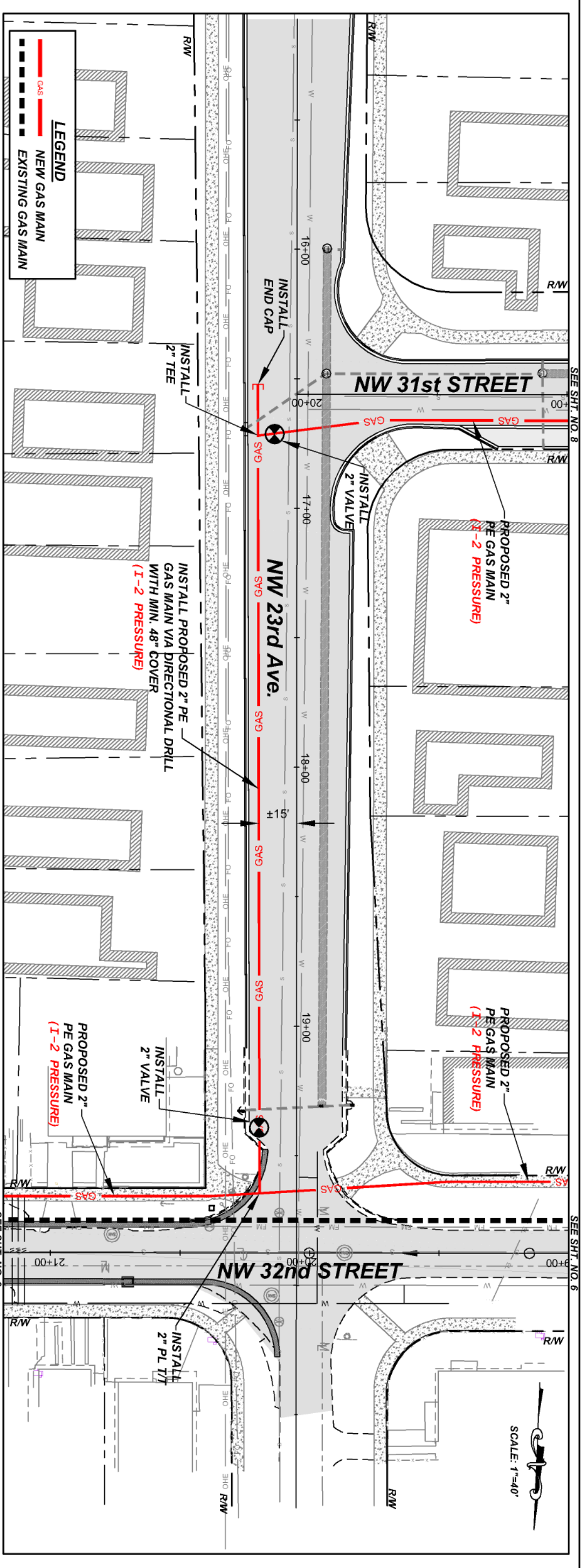
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DATE:	4/24/18

Yuro & Associates, LLC	145 Hidden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199
CERTIFICATE OF AUTHORIZATION NO. 2868	

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

NW 32nd STREET - GAS MAIN REPLACEMENT	PREPARED FOR:
TECO - PEOPLES GAS SYSTEMS, INC.	PLAN AND PROFILE

SHEET NO.	8
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NOTE:
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 3) MAINTAIN MIN. 6" VERTICAL SEPARATION FROM EXISTING AND PROPOSED UTILITIES.

NO.	DATE	REVISIONS

PROJECT NO.	Y18 - 566
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DATE:	4/24/18

	145 Hilden Road, Unit 108 Ponte Vedra, FL 32081 (904) 342-5199 CERTIFICATE OF AUTHORIZATION NO. 2868
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MICHAEL J. YURO, P.E. FLORIDA P.E. LICENSE NO. 65247 REGISTERED PROFESSIONAL	NW 32nd STREET - GAS MAIN REPLACEMENT PREPARED FOR: TECO - PEOPLES GAS SYSTEMS, INC. PLAN AND PROFILE
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SHEET NO.	9
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BEST MANAGEMENT PRACTICES (BMPs)

THE PLAN HAS BEEN PREPARED TO ENSURE COMPLIANCE WITH APPLICABLE CONDITIONS OF THE MAN-MADE COUNTY LAND DEVELOPMENT REGULATIONS, THE RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), CHAPTER 17-25 F.A.C., THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD), CHAPTER 40-4 F.A.C., AND THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) APPLICABLE DOCUMENT NO. THE PLAN ADDRESSES THE FOLLOWING:

- A. PREVENT LOSS OF SOIL DURING CONSTRUCTION BY STORMWATER RUNOFF AND/OR WIND EROSION, INCLUDING PROTECTING TOPSOIL BY STOCKPILING FOR REUSE.
- B. SEDIMENTATION PROTECTION OF STORM SEWER OR RECEIVING STREAM.
- C. PREVENT POLLUTION OF AIR WITH DUST AND PARTICULATE MATTER. THE VARIOUS TECHNIQUES OR ACTIONS IDENTIFIED UNDER EACH SECTION INDICATE THE APPROPRIATE SITUATION WHEN THE TECHNIQUES SHOULD BE EMPLOYED. ALSO IDENTIFIED IS A CROSS-REFERENCE TO A DIAGRAM OR FIGURE REPRESENTING THE TECHNIQUE. IT SHOULD BE NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN ARE ONLY SUGGESTED BMPs. THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. CONTRACTOR SHALL PREPARE REQUIRED NPDES DOCUMENTATION AND OBTAIN PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE THE REQUIRED NPDES DOCUMENT AND OBTAIN THE NPDES PERMIT. ALL COSTS ASSOCIATED WITH SUCH WORK SHALL BE DEEMED INCIDENTAL TO THE PROJECT LUMP SUM COST.

GENERAL EROSION CONTROL NOTES:

- A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THESE EROSION CONTROL DRAWINGS, THE STANDARD DETAILS, THE NPDES PERMIT (TO BE OBTAINED BY THE CONTRACTOR), AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORMWATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THIS DRAWING AND THE STATE OF FLORIDA NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPs) IN ALL CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - 1. FUEL SPILLS AND LEAK PREVENTION
 - 2. VEHICLE AND EQUIPMENT WASHING
 - 3. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR
 - 4. PROPER OUTDOOR LOADING AND UNLOADING OF MATERIALS
 - 5. PREVENT / REDUCE OUTDOOR STORAGE OF RAW MATERIALS, PRODUCTS AND BY-PRODUCTS
 - 6. SOLID WASTE MANAGEMENT
 - 7. HAZARDOUS WASTE MANAGEMENT
 - 8. CONCRETE WASTE MANAGEMENT
 - 10. STRUCTURAL CONSTRUCTION AND PAINTING
 - 11. SPILL PREVENTION AND CONTROL
 - 12. CONTAMINATED SOIL MANAGEMENT
 - 13. SANITARY / SEPTIC WASTE MANAGEMENT
 - 14. SOIL EROSION CONTROL
 - 15. STORM WATER TURBIDITY MANAGEMENT

ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

- D. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
 - E. SITE MAP MUST CLEARLY DELINEATE STATE WATERBODIES. CONTRACTOR MUST MAINTAIN ALL PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERBODIES OR REGULATED WETLANDS ON SITE AT ALL TIMES.
 - F. CONTRACTORS SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
 - G. CONTRACTOR SHALL BEGIN CLEARING AND GRUBBING THOSE PORTIONS OF THE SITE NECESSARY TO COMPLETE PERMITTER CONTROL MEASURES. CLEARING AND GRUBBING FOR THE REMAINING PORTIONS OF THE PROPOSED SITE SHALL COMMENCE ONCE PERMITTER CONTROLS ARE IN PLACE. PERMITTER CONTROLS SHALL BE ACTIVELY MAINTAINED UNTIL SAID AREAS HAVE BEEN STABILIZED AND SHALL BE REMOVED ONCE FINAL STABILIZATION IS COMPLETE.
 - H. GENERAL EROSION CONTROL BMPs SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND POTENTIAL LAKE SLOPE FAILURES. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED AS SOON AS POSSIBLE DURING CONSTRUCTION.
 - I. ON SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
 - J. SURFACE WATER QUALITY SHALL BE MAINTAINED BY EMPLOYING THE FOLLOWING BMPs IN THE PLANNING AND CONSTRUCTION OF ALL IMPROVEMENTS
- STORM WATER EROSION CONTROL PRACTICES**
- A. CONTRACTOR OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM DETENTION POUNDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM DRAINAGE SYSTEM IN CONNECTION WITH THE STABILIZATION OF THE SITE.
 - B. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
 - C. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (COMPOST STOCK DEVICES, ETC.) TO PREVENT EROSION.
 - D. WHERE PRACTICAL, STORMWATER SHALL BE COVERED BY SWALES.
 - E. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
 - 1. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FORTHERS PRACTICAL UTILITY REPAIR LOCATION.
 - 2. STORMWATER INLETS SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED AS SOON AS PRACTICAL DURING THE VARIOUS STAGES OF INLET CONSTRUCTION. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND THE INLETS IS COMPLETE.
 - 3. WHEN NEEDED, A TEMPORARY SEDIMENT TRAP SHOULD BE CONSTRUCTED TO DETAIN SEDIMENT LOADED RUNOFF FROM DISTURBED AREAS.
 - 4. SILT BARRIERS, ANY SILT WHICH ACCUMULATES BEHIND THE BARRIERS AND ANY FILL USED TO ANCHOR THE BARRIERS SHALL BE REMOVED PROMPTLY AFTER THE END OF THE MAINTENANCE PERIOD SPECIFIED FOR THE BARRIERS.
 - 5. SLOPES OF BANKS OF RETENTION / DETENTION POUNDS SHALL BE CONSTRUCTED NOT STEEPER THAN 2:1 FROM TOP OF BANK TO TWO FEET BELOW NORMAL WATER LEVEL, AS APPLICABLE.
 - 6. SOD SHALL BE PLACED FOR A 2-FOOT WIDE STRIP ADJOINING ALL CURBING AND AROUND ALL INLETS. SOD SHALL BE PLACED BEFORE SILT BARRIERS ARE REMOVED.

MAINTENANCE

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN AND IN THE STORM WATER POLLUTION PREVENTION PLANS, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- A. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETEIORATION.
- B. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED AND RE-SEED AS NECESSARY.
- C. THE COMPOST SOCK FILTRATION DEVICE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF DEVICE. COMPOST SOCK SHALL BE REPAIRED TO ITS ORIGINAL CONDITION IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE COMPOST SOCK WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE COMPOST SOCK.
- D. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSINGS OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- E. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING, AS CONDITIONS DEMAND.
- F. OUTLET STRUCTURE IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. THE SEDIMENT BASINS / DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE BASIN CAPACITY HAS BEEN REDUCED BY 10% AND AFTER CONSTRUCTION IS COMPLETE.
- G. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER BUT IN NO CASE LATER THAN SEVEN CALENDAR DAYS FOLLOWING THE INSPECTION.
- H. DIVERSION DICES SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.
- I. MAINTENANCE REPORTS SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILLED IN AN ORGANIZED MANNER AND RETAINED ON SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER THE EROSION CONTROL.
- J. ALL REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.

SPILL PREVENTION AND CONTROL

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

A. GOOD HOUSEKEEPING

- 1. SUPERINTENDENT SHALL INSPECT PROJECT AREA DAILY FOR PROPER STORAGE, USE AND DISPOSAL OF CONSTRUCTION MATERIALS
- 2. STORE ONLY ENOUGH MATERIAL ON SITE FOR PROJECT COMPLETION
- 3. ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER
- 4. ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER
- 5. PRODUCTS SHALL NOT BE MIXED UNLESS DIRECTED BY THE MANUFACTURER
- 6. ALL PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

HAZARDOUS PRODUCTS

- 1. MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINERS WITH LABELS. UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED, IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED
- 2. A MINIMAL AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED FENCIL. ALL CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZERS SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- 3. PAINT CONTAINERS SHALL BE SEALED AND NOT STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- 4. CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OIL OR DISCHARGE SURPLUS CONCRETE OR DRINK WASH WATER ON THE SITE.

SPILL CLEANUP

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED ABOVE, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- A. SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- B. THE FOLLOWING CLEANUP EQUIPMENT MUST BE KEPT ON SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, NPDES BAGS, BROOMS, DUST PAND, SAND, SANDWICH, LIQUID ABSORBER, GOGGLES AND TRASH CONTAINERS.
- C. SURFACENT OILS AND GREAS ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE AND READY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS AND LEAKS.
- D. ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- E. WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
- F. TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
- G. AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL SHALL BE RECORDED.
- H. THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND SHALL BE RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATION OF THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

WIND EROSION CONTROL PRACTICES

- 1. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
- 2. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED (SEE PERMANENT STABILIZATION PRACTICES FOR DETAILS). THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN. CLEARED SITE DEVELOPMENT AREAS NOT CONTAININGLY SCHEDULED FOR CONSTRUCTION ACTIVITIES SHALL BE COVERED WITH HAY OR OVERSEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUND COVER (SEE TEMPORARY STABILIZATION PRACTICES FOR DETAILS).
- 3. AT ANY TIME, BOTH DURING AND AFTER SITE CONSTRUCTION, IF WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL, SHALL BE EMPLOYED. THESE METHODS SHOULD INCLUDE ERECTION OF DUST CONTROL FENCES. A GEOTEXTILE FILTER FIBER SHOULD BE HANGING AGAINST THE EXISTING CHAIN LINK FENCE AND GATE OPERATIONS IS PROHIBITED.
- 4. ALL SUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLIUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

STABILIZATION PRACTICES

SHALL BE IN ACCORDANCE WITH APPLICABLE DEP DOCUMENTS

STRUCTURAL PRACTICES

SHALL BE IN ACCORDANCE WITH APPLICABLE DEP DOCUMENTS

WASTE DISPOSAL

- A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPLOYED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES IN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.
- B. HAZARDOUS WASTE: HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.
- C. SANITARY WASTE: SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.
- D. RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED IN A SEALED CONTAINER. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERBODIES OF THE STATE.

OFFSITE TRACKING

- A. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM THE CONSTRUCTION ON TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARP.
- B. GENERAL CONTRACTOR SHALL DENOTE ON THE PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA. EMPLOYEE PARKING AREA AND AREA FOR LOCATION OF PORTABLE FACILITIES, OFFICE TRAILERS AND TOILET FACILITIES. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DICES, HAY BALS OR SILT SCREENS AROUND AND SEEDMENT SWIPS WITHIN SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF GREASE OR LUBRICANTS. CONTRACTORS SHALL HAVE AVAILABLE AND SHALL USE ABSORBANT LITTER PAD TO CLEAN UP SPILLS AS SOON AS POSSIBLE AFTER OCCURRENCE.
- C. ALL WASH WATER FROM CONCRETE TRUCKS, VEHICLE CLEANING EQUIPMENT CLEANING, ETC. SHALL BE DEIGNED ON SITE AND SHALL BE PROPERLY TREATED OR DISPOSED.
- D. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- E. ALL MATERIAL SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PLACE ALL STORMWATER POLLUTION PROTECTION DEVICES IN ACCORDANCE WITH ALL APPLICABLE STATE & LOCAL REQUIREMENTS.

NO.	DATE	REVISIONS	PROJECT NO.	Y18 - 566
			DRAWN BY:	RKC
			CHECKED BY:	MY
			DATE:	4/19/18

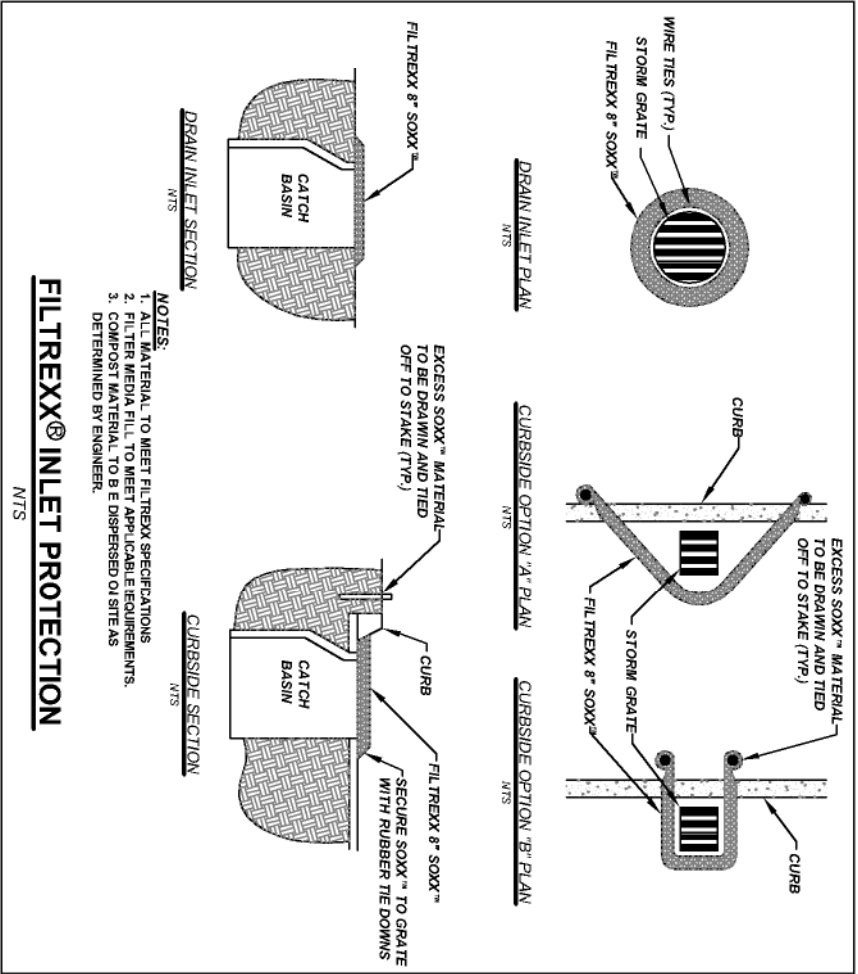
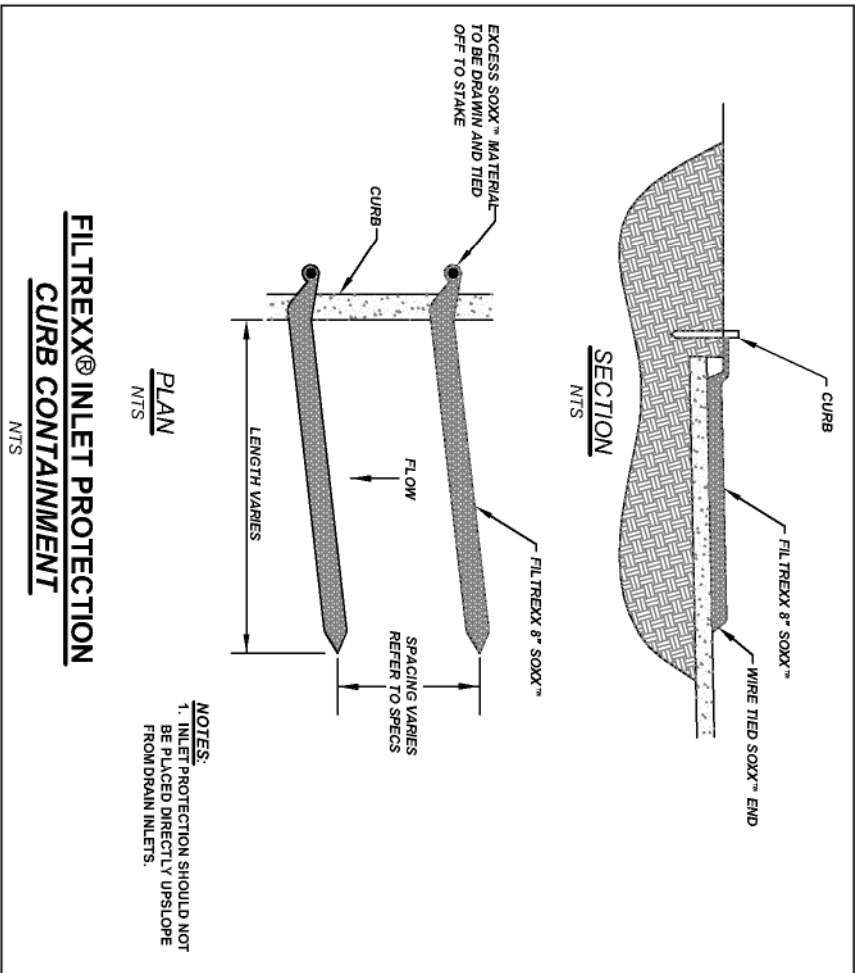
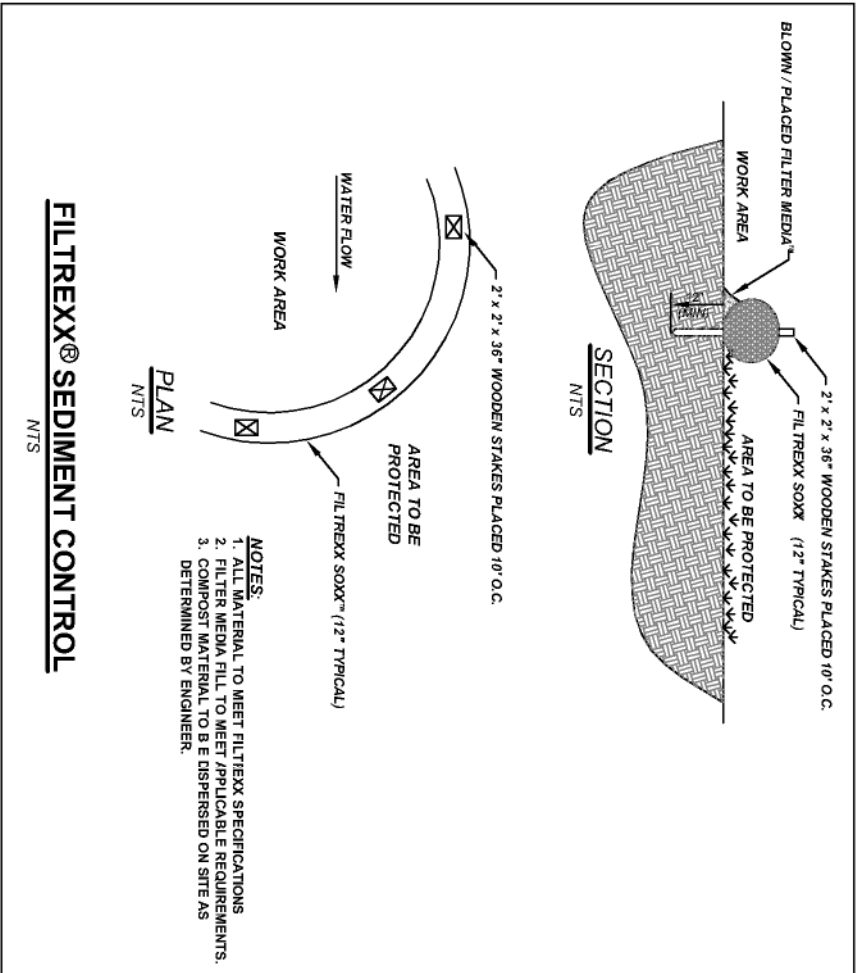


145 Hidden Road, Unit 108
Ponte Vedra, FL 32081
(904) 342-5199

CERTIFICATE OF AUTHORIZATION NO. 2868

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

NW 32nd STREET - GAS MAIN REPLACEMENT		SHEET NO
TECO- PEOPLES GAS SYSTEMS, INC. PREPARED FOR:		
STORMWATER POLLUTION PREVENTION PLAN		10



NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PLACE ALL STORMWATER POLLUTION PROTECTION DEVICES IN ACCORDANCE WITH ALL APPLICABLE STATE & LOCAL REQUIREMENTS.

NO.	DATE	REVISIONS

PROJECT NO.	Y18 - 566
DRAWN BY:	RKC
CHECKED BY:	MY
DATE:	4/19/18

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