



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, JACKSONVILLE DISTRICT  
P. O. BOX 4970  
JACKSONVILLE, FLORIDA 32232-0019

JULY 1, 2019

## ***PUBLIC NOTICE***

Permit Application Number SAJ-2019-01066(SP-MRE)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: Florida Public Utilities  
Attn: Mr. John Burke  
1705 7<sup>th</sup> Street  
Winter Haven, Florida 33880

### **WATERWAY AND LOCATION:**

The project would affect waters of the United States (wetlands) associated with Mill Creek (a tributary to the St. Marys River), Alligator Creek, Boggy Creek, and Plummer Creek (tributaries to the Nassau River). The project corridor is located within Sections 1, 7, 8, 9, 10, and 11, Township 1 North, Range 24 East; Sections 31, 30, 29, 51, 47, 21, 42, 15, 43, 14, 13, and 42, Township 2 North, Range 25 East; Sections 1, 4, 5, 7, 8, 9, 10, and 11, Township 2 North, Range 26 East; and Sections 7, 8, 9, and 42, Township 2 North, Range 27 East, Nassau County, Florida.

The proposed alignment begins along Crawford Road at an existing utility easement (buried pipe/cable and overhead powerlines) and future proposed regulator tap station, which would connect the proposed pipeline to an existing pipeline, at latitude 30.519613, longitude -81.951656. The alignment then continues approximately 5 miles east along Crawford Road then turns east on to US Highway 301 and continues 16 miles east/northeast through Callahan, Florida. The alignment turns south on to Semper Fi Drive, crosses Interstate 95, and continues east along Mentoria Road. The alignment turns east from Mentoria Road through a forested area adjacent to Harper Chapel Road. The alignment turns north at the Nassau County Veterans Services and continues east along William Burgess Boulevard before turning south on to Harvester Street. The alignment continues south along Harvester Street and then turns east along Clyde Higginbotham Road and Commercial Park Drive. The alignment reaches its terminus near the intersection of Commercial Park Drive and Highway 17 in Yulee, Florida, at latitude 30.603861, longitude -81.598041, where it would connect to an existing pipeline.

### **PROJECT PURPOSE:**

Basic: The basic project purpose is the transmission of natural gas.

Overall: The overall project purpose is the transmission of additional natural gas to eastern Nassau County.

**EXISTING CONDITIONS:** The proposed corridor traverses numerous vegetative community types identified by the *Florida Land Use, Cover, and Forms Classification System* (FLUCFCS). The jurisdictional aquatic FLUCFCS community types affected by the project are listed in tables associated with the project drawings.

#### **PROPOSED WORK:**

The applicant seeks authorization to temporarily affect wetlands through the discharge of fill material, permanently affect wetlands through the conversion of forested wetlands to herbaceous wetlands, and use horizontal directional drill (HDD) techniques to traverse under navigable waters of the United States to install a 16-inch high pressure steel pipe that would transport natural gas. The project would result in temporary impacts to 23 jurisdictional wetlands and 11 jurisdictional streams; and, permanent impacts to 33 jurisdictional wetlands (wetland conversion) within the project corridor.

The proposed pipeline would cross under two navigable waters - Alligator Creek and Mill Creek. The pipeline also would cross under the existing road culvert of a third navigable water, Plummer Creek. This work would be accomplished using HDD and the pipeline would be drilled to a minimum depth of 10 feet below the bottom of the stream channels.

The proposed pipeline would be installed using three different methods (open trench cut, jack and bore, and HDD). A majority of the temporary and permanent disturbances would occur within existing roadway right-of-way (ROW) and temporary easements and workspaces adjacent to the ROW. Approximately 1.3 miles of the eastern section of the proposed alignment would be routed alongside an existing un-paved road (Crawford Road) along silvicultural lands.

Temporary impacts associated with this project are a result of pipeline installation by open trench construction methodology. For these impacts, no permanent fill would be discharged and the disturbed wetlands would be returned to pre-existing contours. Across the project corridor, a total of 4.23-acres of jurisdictional wetlands and 0.21-acres of jurisdictional streams would be temporarily impacted.

Permanent impacts associated with this project are a result of wetland conversion from forested to herbaceous conditions to maintain a permanent easement. For these impacts, no permanent fill would be discharged and the disturbed wetlands would be returned to pre-existing contours but these systems would be converted to herbaceous wetlands. Across the project corridor, a total of 7.13-acres of jurisdictional wetlands would be cleared and wetland type converted. Compensatory mitigation is proposed for these impacts (see below).

**AVOIDANCE AND MINIMIZATION INFORMATION** – The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

The applicant examined multiple potential routes for the proposed pipeline; and, determined that the final proposed route avoided wetlands and stream systems to the maximum extent practicable. In addition, the applicant indicates that the work proposed is the minimum necessary to install the proposed pipeline.

**COMPENSATORY MITIGATION** – The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:



Compensatory mitigation for the proposed permanent impacts will be accomplished through the purchase of 0.69 credits wetland credits from a federally approved mitigation bank.

#### CULTURAL RESOURCES:

The applicant's agent conducted a desktop survey and review of the pipeline corridor for historic, cultural, and archaeological resources within the pipeline study area. Research of the Florida Master Site File (FMSF) identified 29 previous cultural resources surveys, two of which parallel/overlap significant portions of the route. One survey found two archeological sites, neither of which was considered eligible for NRHP listing, and the other survey found 38 architectural and other above ground historic resources, including eight historic bridges and one culvert. None of the individual identified resources were considered eligible for NRHP listing.

Inspections of the FMSF records located 10 previously recorded archaeological sites. Eligibility recommendations are unknown. Searches of the FMSF identified nine historic bridges and 10 historic resource groups. The nearest NRHP eligible bridge is located roughly 460 meters from the proposed pipeline route. The nearest NRHP eligible historic standing structures are positioned roughly 300 and 290 meters from the pipeline route, respectively. The Florida Railroad and Harts Road are eligible resource groups that directly bisect the property.

The Corps will initiate consultation with the State Historic Preservation Office and those federally recognized tribes with concerns in Florida and the Permit Area, and the Advisory Council on Historic Preservation as applicable pursuant to 33 CFR 325, Appendix C and Section 106 of the National Historic Preservation Act, by separate letter.

#### ENDANGERED SPECIES:

Red Cockaded Woodpecker (*Picoides borealis*): The project corridor traverses the consultation area identified by the U.S. Fish and Wildlife Service (FWS) and the Corps for this species. Therefore, this species could utilize the area encompassed by the ESA scope of analysis for this project. Habitat for Red Cockaded Woodpecker typically incorporates mature pine woodlands (not wetlands); and, optimal habitat is characterized as a broad savanna with a scattered overstory of large pines and a dense groundcover containing a diversity of grass and shrub species. Nesting and roosting occur in cavity trees that are almost exclusively old, living, flat-topped pine trees. The project corridor does not encompass typical or optimum habitat; or, trees capable of supporting cavities. Further, as significant forested habitat is located near the project corridor, it is likely that this species would only opportunistically forage within the project corridor, which the installation of the proposed pipeline would not preclude. Therefore, the Corps concludes that the project would have *no effect* on this species.

Wood Stork (*Mycteria americana*): The project corridor traverses a portion of the Core *Foraging Area* of the Pumpkin Hill (594105) Wood Stork colony. Therefore, this species could utilize the area encompassed by the ESA scope of analysis for this project. However, the project would not adversely affect suitable foraging habitat for Wood Stork. In consideration of this information, the Corps utilized *The Corps of Engineers, Jacksonville District, U.S. Fish and Wildlife Service, Jacksonville Ecological Services Field Office and State of Florida Effect Determination Key for the Wood Stork in Central and North Peninsular Florida, September 2008*, to determine potential effects upon this species. Use of this key resulted in the sequence A-B-*no effect*. The FWS has indicated that they concur with determinations of *no effect* based on the key for Wood Storks; and, that no additional consultation is necessary.

Manatee (*Trichechus manatus*): This species could be present within the stream systems traversed by the project corridor. However, within those stream systems that could support manatee, the applicant would utilize HDD. Therefore, unless there is a frac-out, the Corps concludes that the project would have *no effect* on this species. In consideration of potential frac-outs, The Corps reviewed the project utilizing The Corps of Engineers, Jacksonville District, and the State of Florida Effect Determination Key for the Manatee in Florida, April 2013. Use of this key resulted in the sequence A-B-C-G-N-O-P5-*may affect, but is not likely to adversely affect*. The Corps partially based this determination on the implementation of the *Standard Manatee Conditions for In-Water Work, 2011*, which the frac-out plan incorporates.

Eastern Indigo Snake (*Drymarchon corais couperi*): This species frequents several habitat types, including pine flatwoods, scrubby flatwoods, high pine, dry prairie, tropical hardwood hammocks, edges of freshwater marshes, agricultural fields, coastal dunes, and human-altered habitats. Therefore, this species could utilize the area encompassed by the ESA scope of analysis for this project. Gopher tortoise (*Gopherus polyphemus*) burrows are commonly utilized as refuge from winter cold and/or desiccating conditions in xeric habitats; and, hollowed root channels, hollow logs, or burrows of rodents, armadillo (*Dasypus novemcinctus*), or land crabs (*Cardisoma guanhumi*) provide shelter in wetter habitats. A recent survey of the project corridor identified two areas supporting less than 25 active/inactive gopher tortoise burrows. In consideration of the potential presence of eastern indigo snake habitat, the Corps utilized *The Eastern Indigo Snake Programmatic Effect Determination Key, August 2013*. Use of this key resulted in the sequence A-B-C-D-E-*may affect, but is not likely to adversely affect*, as the applicant has agreed to implement the *Standard Protection Measures for the Eastern Indigo Snake, August 12, 2013*. The FWS has indicated that they concur with determinations of *may affect, not likely to adversely affect* based on the key for eastern indigo snakes; and, that no additional consultation is necessary.

The Corps executed a *Resources At Risk* (RAR) report. The RAR did not indicate that the site is utilized by, or contains habitat critical to, any other federally listed threatened or endangered species. The Corps also reviewed geospatial data and other available information. The Corps has not received or discovered any information that the project site is utilized by, or contains habitat critical to, any other federally listed threatened or endangered species.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The project would not affect marine and/or estuarine systems nor EFH. Our initial determination is that the proposed action would not adversely impact on EFH or federally managed fisheries in the St. Marys River or Nassau River. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The Corps is currently evaluating the proposed delineation of aquatic resources, including wetlands, and the extent of Federal jurisdictional.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Jacksonville Permits Section, Post Office Box 4970, Jacksonville, Florida 32232 within 30 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Mark R. Evans, in writing at the Jacksonville Permits Section, Post Office Box 4970, Jacksonville, Florida 32232; by electronic mail at [mark.r.evans@usace.army.mil](mailto:mark.r.evans@usace.army.mil); by facsimile transmission at (904)232-1940; or, by telephone at (904)232-2028.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

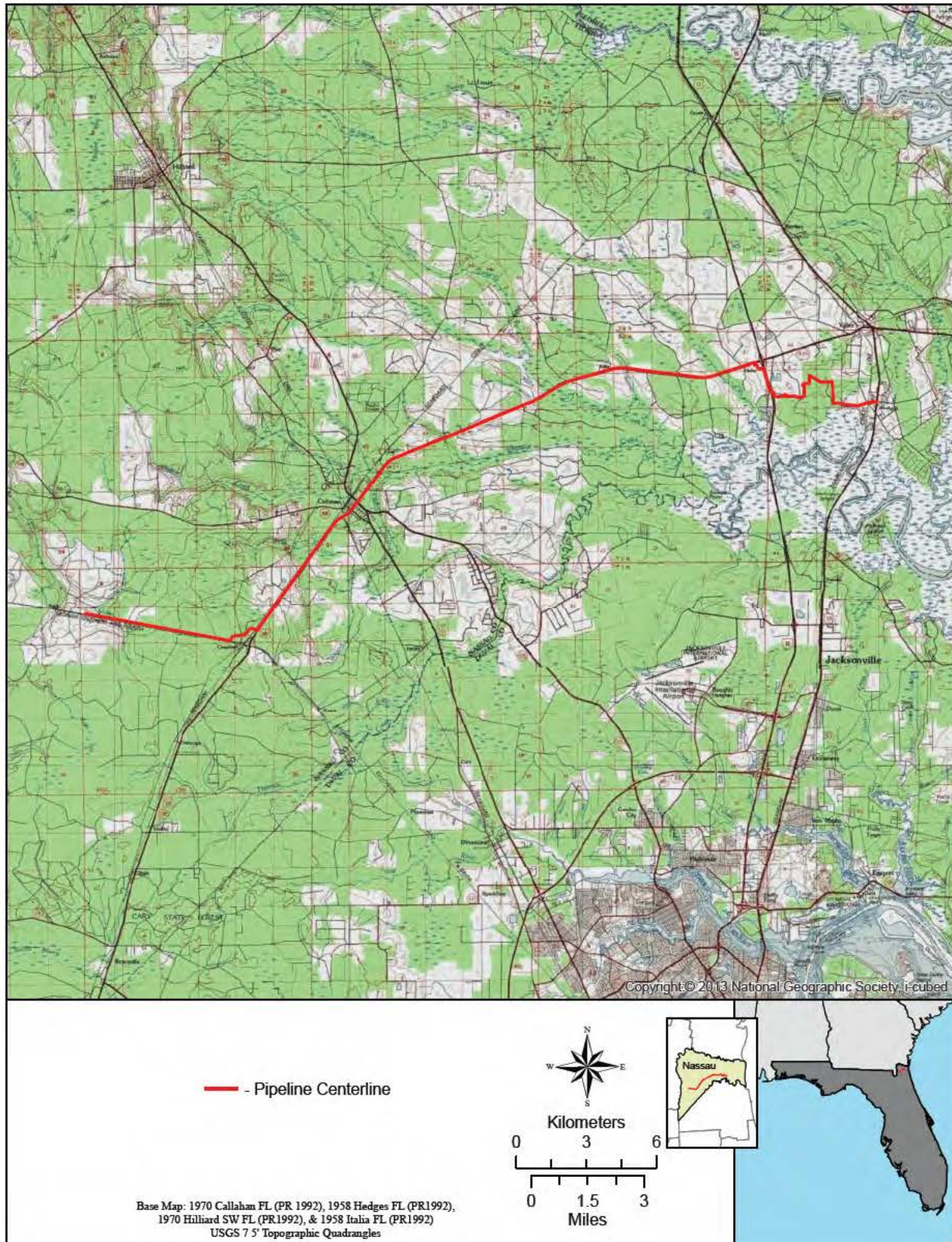
The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

COASTAL ZONE MANAGEMENT CONSISTENCY: In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

REQUEST FOR PUBLIC HEARING: Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing. The Corps will review/evaluate any requests; and, determine whether or not a public hearing will be held.



General Project Corridor



WL & SW ID	UMAM Assessment Area Name(s)	WL & SW Type	WL & SW Size (within Corridor) (acres)	WL & SW Not Impacted (within corridor) (acres)	Total WL & SW Impacted (acres)	Temporary WL & SW Impact Size (acres)	Temporary WL & SW Impact Type	Permanent WL & SW Impact Size (acres)	Permanent WL & SW Type
Jurisdictional Tributary 1	N/A	510 Streams and Waterways	0.016	0.00	0.016	0.016	O	0.00	N/A
Jurisdictional Tributary 2	N/A	510 Streams and Waterways	0.007	0.00	0.007	0.007	O	0.00	N/A
Jurisdictional Tributary 3	N/A	510 Streams and Waterways	0.01	0.00	0.01	0.01	O	0.00	N/A
Jurisdictional Tributary 4	N/A	510 Streams and Waterways	0.04	0.00	0.04	0.04	O	0.00	N/A
Jurisdictional Tributary 5	N/A	510 Streams and Waterways	0.007	0.007	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 6	N/A	510 Streams and Waterways	0.01	0.01	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 7	N/A	510 Streams and Waterways	0.03	0.00	0.03	0.03	O	0.00	N/A
Jurisdictional Tributary 8 (TNW 1)	N/A	510 Streams and Waterways	0.009	0.009	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 9	N/A	510 Streams and Waterways	0.01	0.01	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 10	N/A	510 Streams and Waterways	0.001	0.001	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 11	N/A	510 Streams and Waterways	0.002	0.002	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 12	N/A	510 Streams and Waterways	0.002	0.002	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 13	N/A	510 Streams and Waterways	0.006	0.006	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 14 (TNW 2)	N/A	510 Streams and Waterways	0.09	0.09	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 15	N/A	510 Streams and Waterways	0.00	0.00	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 16	N/A	510 Streams and Waterways	0.00	0.00	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 17 (TNW 3)	N/A	510 Streams and Waterways	0.00	0.00	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 18	N/A	510 Streams and Waterways	0.001	0.001	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 19	N/A	510 Streams and Waterways	0.001	0.00	0.001	0.001	O	0.00	N/A
Jurisdictional Tributary 20	N/A	510 Streams and Waterways	0.0004	0.00	0.0004	0.0004	O	0.00	N/A
Jurisdictional Tributary 21	N/A	510 Streams and Waterways	0.03	0.00	0.03	0.03	O	0.00	N/A
Jurisdictional Tributary 22	N/A	510 Streams and Waterways	0.00	0.00	0.00	0.00	N/A	0.00	N/A
Jurisdictional Tributary 23	N/A	510 Streams and Waterways	0.001	0.00	0.001	0.001	O	0.00	N/A
Jurisdictional Tributary 24	N/A	510 Streams and Waterways	0.005	0.00	0.005	0.005	O	0.00	N/A
Jurisdictional Tributary 25	N/A	510 Streams and Waterways	0.07	0.00	0.07	0.07	O	0.00	N/A
Totals =			0.343	0.135	0.209	0.209		0.000	

WL & SW ID	UMAM Assessment Area Name(s)	WL & SW Type	WL & SW Size (within Corridor) (acres)	WL & SW Not Impacted (within corridor) (acres)	Total WL & SW Impacted (acres)	Temporary WL & SW Impact Size (acres)	Temporary WL & SW Impact Type	Permanent WL & SW Impact Size (acres)	Permanent WL & SW Impact Type	UMAM Mitigation Credits
Jurisdictional Wetland A	Wetland A	6300: Wetland Forest Mix	0.18	0	0.18	0	N/A	0.18	C	0.02
Jurisdictional Wetland B	Wetland B	6300: Wetland Forest Mix	0.00002	0	0.00002	0	N/A	0.00002	C	0.000002
Jurisdictional Wetland C	Wetland C	6170: Mixed Wetland Hardwoods	0.05	0	0.05	0	N/A	0.05	C	0.01
Jurisdictional Wetland D	Wetland D	6170: Mixed Wetland Hardwoods ; 6250: Wet Pinelands- Hydric Pine	0.14	0	0.14	0	N/A	0.14	C	0.02
Jurisdictional Wetland E	Wetland E	6170: Mixed Wetland Hardwoods ; 6250: Wet Pinelands- Hydric Pine	0.41	0	0.41	0	N/A	0.41	C	0.05
Jurisdictional Wetland F	Wetland F	6200: Pine Plantation ; 6300: Wetland Forest Mix	0.97	0	0.97	0	N/A	0.97	C	0.16
Jurisdictional Wetland G	Wetland G	6200: Pine Plantation	0.02	0	0.02	0	N/A	0.02	C	0.001
Jurisdictional Wetland H	Wetland H	6200: Pine Plantation	0.44	0	0.44	0	N/A	0.44	C	0.03
Jurisdictional Wetland I	Wetland I	6200: Pine Plantation	0.20	0	0.20	0.16	O	0.04	C	0.001
Jurisdictional Wetland J	Wetland J	6200: Pine Plantation ; 6250: Hydric Pine Flatwoods	1.40	0	1.40	1.01	O	0.40	C	0.03
Jurisdictional Wetland K	N/A	6200: Pine Plantation (cleared)	0.95	0	0.95	0.95	O	0.00	N/A	0
Jurisdictional Wetland L	N/A	6200: Pine Plantation	0.01	0	0.01	0.01	O	0.00	N/A	0
Jurisdictional Wetland M	N/A	6300: Wetland Forest Mix	0.02	0	0.02	0.02	O	0.00	N/A	0
Jurisdictional Wetland N	N/A	6170: Mixed Wetland Hardwoods	0.22	0	0.22	0.22	O	0.00	N/A	0
Jurisdictional Wetland O	N/A	6400: Vegetated Non-Forested Wetlands	0.02	0.02	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland P	N/A	6170: Mixed Wetland Hardwoods	0.15	0	0.15	0.15	O	0.00	N/A	0
Jurisdictional Wetland Q	N/A	6460: Mixed Scrub-Shrub Wetland	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland R	Wetland R	6300: Wetland Forest Mix	0.08	0	0.08	0	N/A	0.08	C	0.01
Jurisdictional Wetland S	Wetland S	6300: Wetland Forest Mix	0.17	0	0.17	0.043	O	0.12	C	0.01
Jurisdictional Wetland T1	Wetland T1	6300: Wetland Forest Mix	0.19	0	0.19	0	N/A	0.19	C	0.02

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Jurisdictional Wetland T2	Wetland T2	6300: Wetland Forest Mix	0.02	0	0.02	0	N/A	0.02	C	0.002
Jurisdictional Wetland U	Wetland U	6300: Wetland Forest Mix	0.04	0	0.04	0	N/A	0.04	C	0.004
Jurisdictional Wetland V	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland W	Wetland W	6300: Wetland Forest Mix	0.01	0	0.01	0	N/A	0.01	C	0.001
Jurisdictional Wetland X	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland Y	N/A	6400: Vegetated Non-Forested Wetlands	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland Z	Wetland Z	6300: Wetland Forest Mix	0.09	0	0.09	0.04	O	0.05	C	0.005
Jurisdictional Wetland AA	N/A	6300: Wetland Forest Mix	0.01	0.01	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AB	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AC	Wetland AC	6170: Mixed Wetland Hardwoods	0.12	0	0.12	0	N/A	0.12	C	0.012
Jurisdictional Wetland AD	N/A	6400: Vegetated Non-Forested Wetlands	0.05	0.05	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AE1	Wetland AE1	6170: Mixed Wetland Hardwoods	0.63	0	0.63	0	N/A	0.63	C	0.063
Jurisdictional Wetland AE2	N/A	6400: Vegetated Non-Forested Wetlands	0.13	0	0.13	0.13	O	0.00	N/A	0
Jurisdictional Wetland AF1	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AF2	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AG	N/A	6300: Wetland Forest Mix	0.003	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AH	N/A	6400: Vegetated Non-Forested Wetlands	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AI	N/A	6460: Mixed Scrub-Shrub Wetland	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AJ1	N/A	6170: Mixed Wetland Hardwoods	0.56	0.03	0.53	0.53	O	0.00	N/A	0
Jurisdictional Wetland AJ2	N/A	6170: Mixed Wetland Hardwoods	0.07	0.07	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AK1	Wetland AK1	6170: Mixed Wetland Hardwoods	0.17	0	0.17	0.15	O	0.02	C	0.002

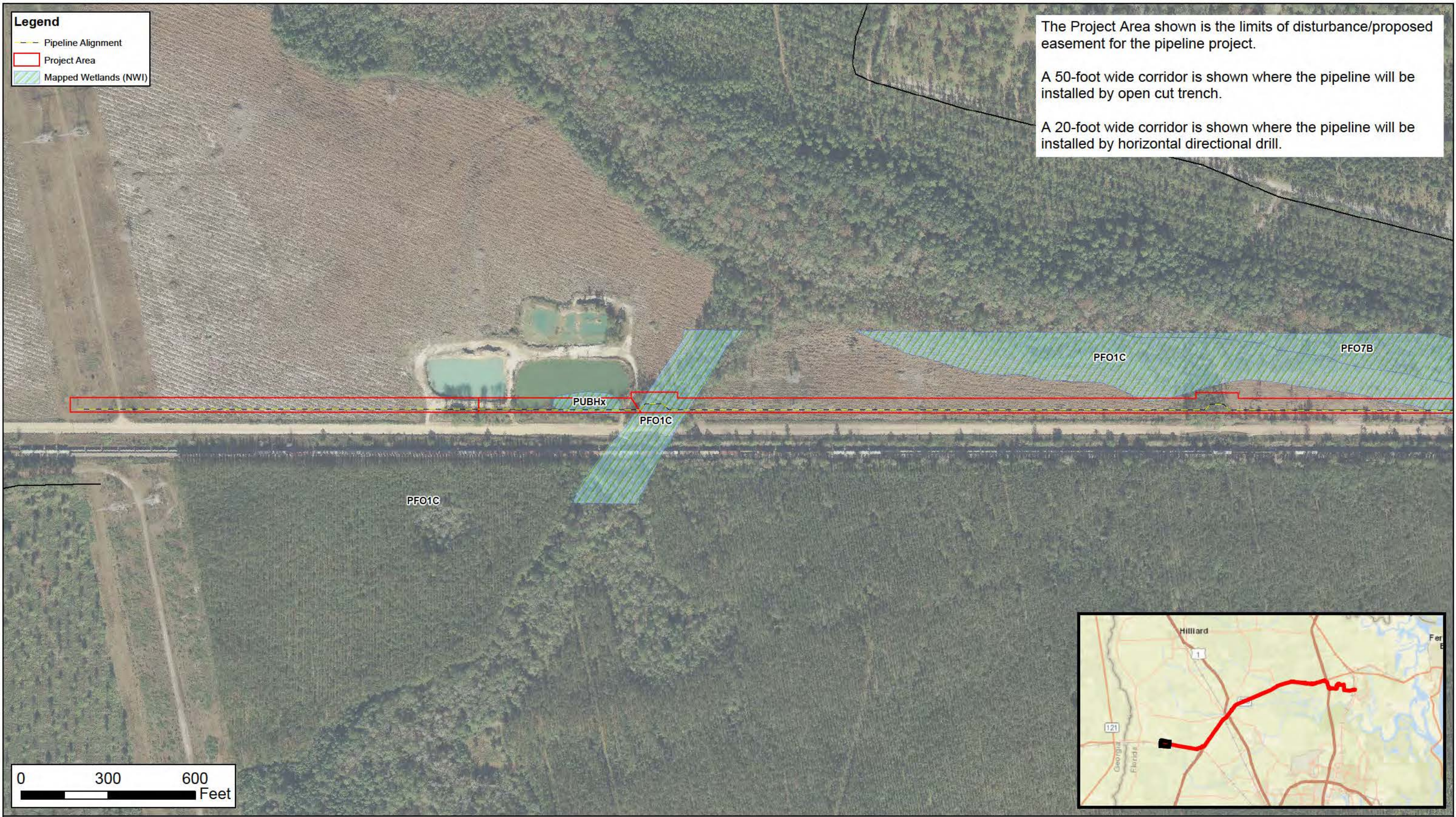


WL & SW ID	UMAM Assessment Area Name(s)	WL & SW Type	WL & SW Size (within Corridor) (acres)	WL & SW Not Impacted (within corridor) (acres)	Total WL & SW Impacted (acres)	Temporary WL & SW Impact Size (acres)	Temporary WL & SW Impact Type	Permanent WL & SW Impact Size (acres)	Permanent WL & SW Impact Type	UMAM Mitigation Credits
Jurisdictional Wetland AK2	N/A	6170: Mixed Wetland Hardwoods	0.04	0.04	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AL	N/A	6400: Vegetated Non-Forested Wetlands	0.04	0	0.04	0.04	O	0.00	N/A	0
Jurisdictional Wetland AM	N/A	6170: Mixed Wetland Hardwoods	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AN	N/A	6400: Vegetated Non-Forested Wetlands	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AO	N/A	6300: Wetland Forest Mix	0.02	0.02	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AP1	N/A	6300: Wetland Forest Mix	0	0	0		N/A	0.00	N/A	0
Jurisdictional Wetland AP2	N/A	6400: Vegetated Non-Forested Wetlands	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AQ	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AR	N/A	6300: Wetland Forest Mix	0.36	0	0.36	0.36	O	0.00	N/A	0
Jurisdictional Wetland AS	N/A	6300: Wetland Forest Mix	0	0	0	0	N/A	0.00	N/A	0
Jurisdictional Wetland AT	N/A	6460: Mixed Scrub-Shrub Wetland	0.02	0	0.02	0.02	O	0.00	N/A	0
Jurisdictional Wetland AU	N/A	6400: Vegetated Non-Forested Wetlands	0.02	0	0.02	0.02	O	0.00	N/A	0
Jurisdictional Wetland AV1	N/A	6400: Vegetated Non-Forested Wetlands	0.02	0	0.02	0.02	O	0.00	N/A	0
Jurisdictional Wetland AV2	N/A	6400: Vegetated Non-Forested Wetlands	0.03	0	0.03	0.03	O	0.00	N/A	0
Jurisdictional Wetland AW	N/A	6400: Vegetated Non-Forested Wetlands	0.0006	0	0.00	0.0006	O	0.00	N/A	0
Jurisdictional Wetland AX	N/A	6400: Vegetated Non-Forested Wetlands	0.03	0	0.03	0.03	O	0.00	N/A	0
Jurisdictional Wetland AY	N/A	6400: Vegetated Non-Forested Wetlands	0.14	0	0.14	0.14	O	0.00	N/A	0
Jurisdictional Wetland AZ1	Wetland AZ1	6200: Pine Plantation	0.000001	0	0.000001	0	N/A	0.000001	C	0.0000001
Jurisdictional Wetland AZ2	Wetland AZ2	6200: Pine Plantation	0.01	0	0.01	0	N/A	0.01	C	0.0007
Jurisdictional Wetland BA	Wetland BA	6200: Pine Plantation	0.03	0	0.03	0	N/A	0.03	C	0.002
Jurisdictional Wetland BB	Wetland BB	6200: Pine Plantation	0.38	0	0.38	0	N/A	0.38	C	0.025

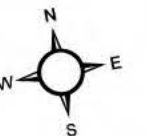
WL & SW ID	UMAM Assessment Area Name(s)	WL & SW Type	WL & SW Size (within Corridor) (acres)	WL & SW Not Impacted (within corridor) (acres)	Total WL & SW Impacted (acres)	Temporary WL & SW Impact Size (acres)	Temporary WL & SW Impact Type	Permanent WL & SW Impact Size (acres)	Permanent WL & SW Impact Type	UMAM Mitigation Credits
Jurisdictional Wetland BC	Wetland BC	6170: Mixed Wetland Hardwoods ; 6200: Pine Plantation	0.02	0	0.02	0	N/A	0.02	C	0.002
Jurisdictional Wetland BD1	Wetland BD1	6170: Mixed Wetland Hardwoods ; 6200: Pine Plantation	0.17	0	0.17	0	N/A	0.17	C	0.034
Jurisdictional Wetland BD2	Wetland BD2	6170: Mixed Wetland Hardwoods ; 6200: Pine Plantation	0.07	0	0.07	0	N/A	0.07	C	0.014
Jurisdictional Wetland BE	Wetland BE	620: Pine Plantation ; 625: Hydric Pine Flatwoods	0.85	0	0.85	0	N/A	0.85	C	0.057
Jurisdictional Wetland BF	Wetland BF	6310: Wetland Scrub	0.86	0	0.86	0	N/A	0.86	C	0.057
Jurisdictional Wetland BG	Wetland BG	6310: Wetland Scrub	0.14	0	0.14	0	N/A	0.14	C	0.009
Jurisdictional Wetland BH	Wetland BH	6200: Pine Plantation	0.10	0	0.10	0	N/A	0.10	C	0.007
Jurisdictional Wetland BI1	Wetland BI1	6200: Pine Plantation	0.44	0	0.44	0	N/A	0.44	C	0.029
Jurisdictional Wetland BI2	Wetland BI2	6200: Pine Plantation	0.11	0	0.11	0	N/A	0.11	C	0.007
Jurisdictional Wetland BJ	N/A	6200: Pine Plantation	0.10	0	0.10	0.10	O	0.00	N/A	0
Jurisdictional Wetland BK	N/A	6200: Pine Plantation	0.04	0	0.04	0.04	O	0.00	N/A	0
Totals =			11.60	0.25	11.36	4.23		7.13		0.69

Comments: O = other / open cut trench, C = Clearing

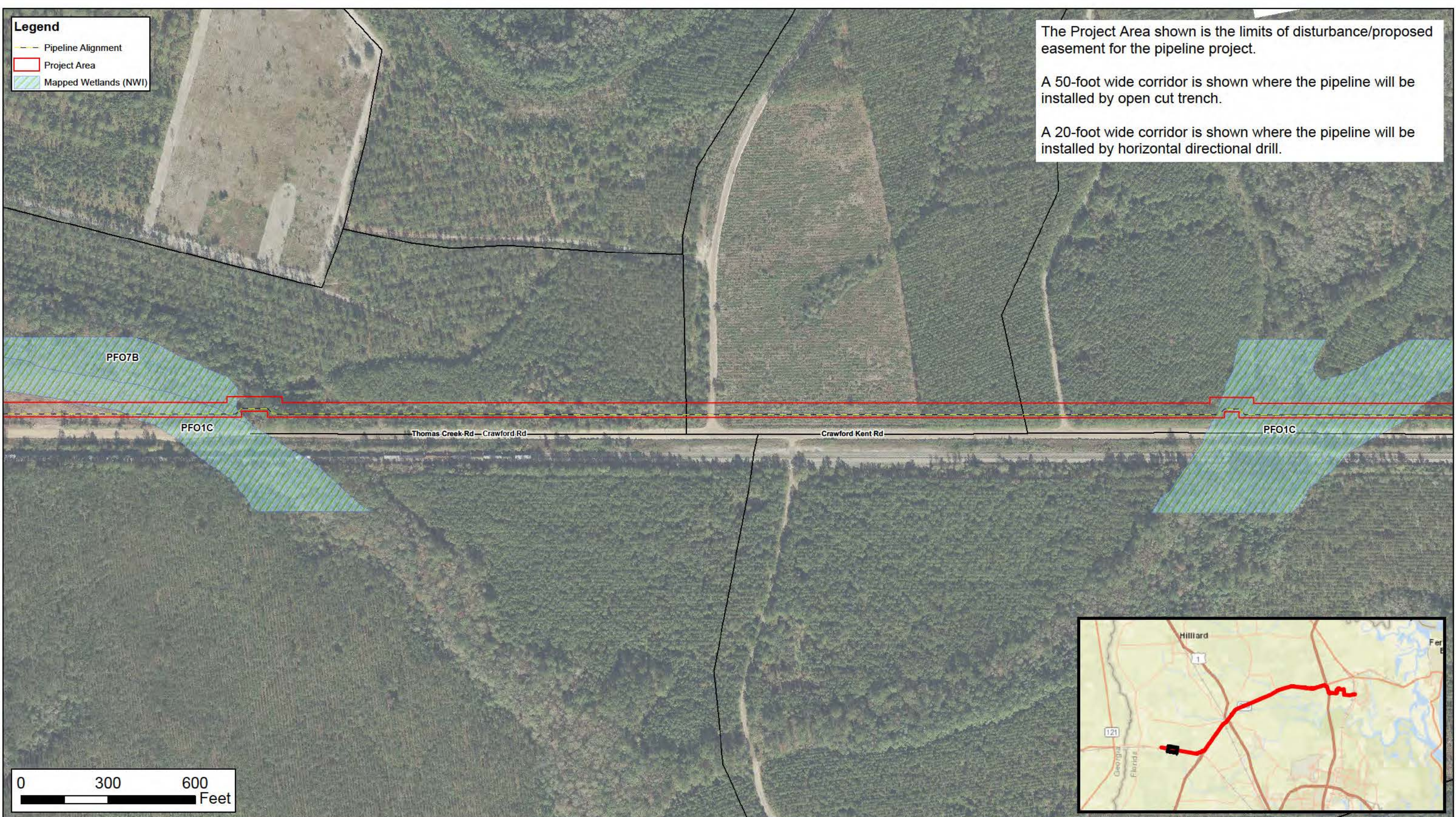




**Figure 3A - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**













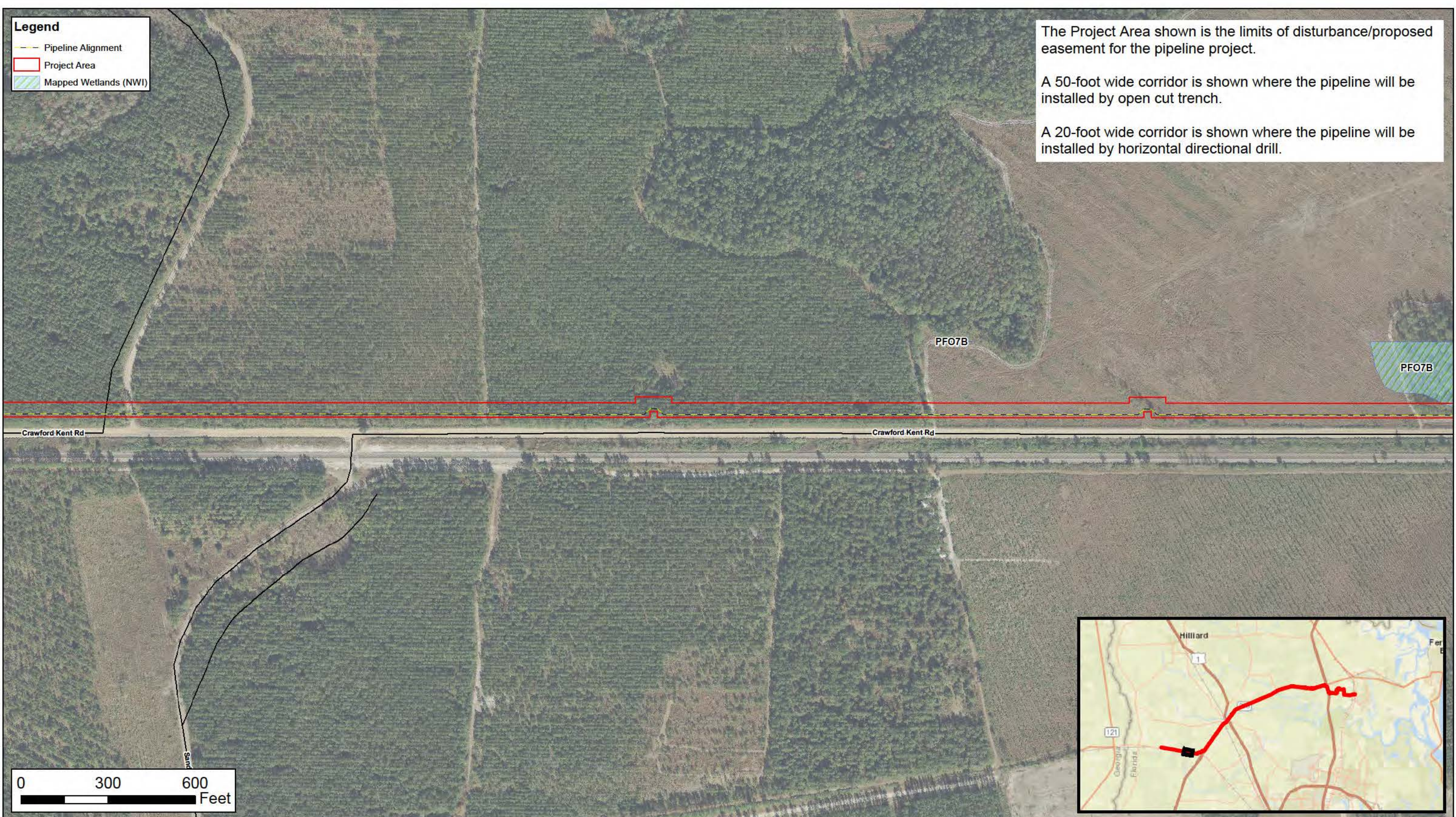
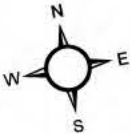


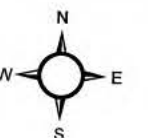
Figure 3D - National Wetlands Inventory (NWI) Map  
Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension  
Nassau County, Florida  
April 2019



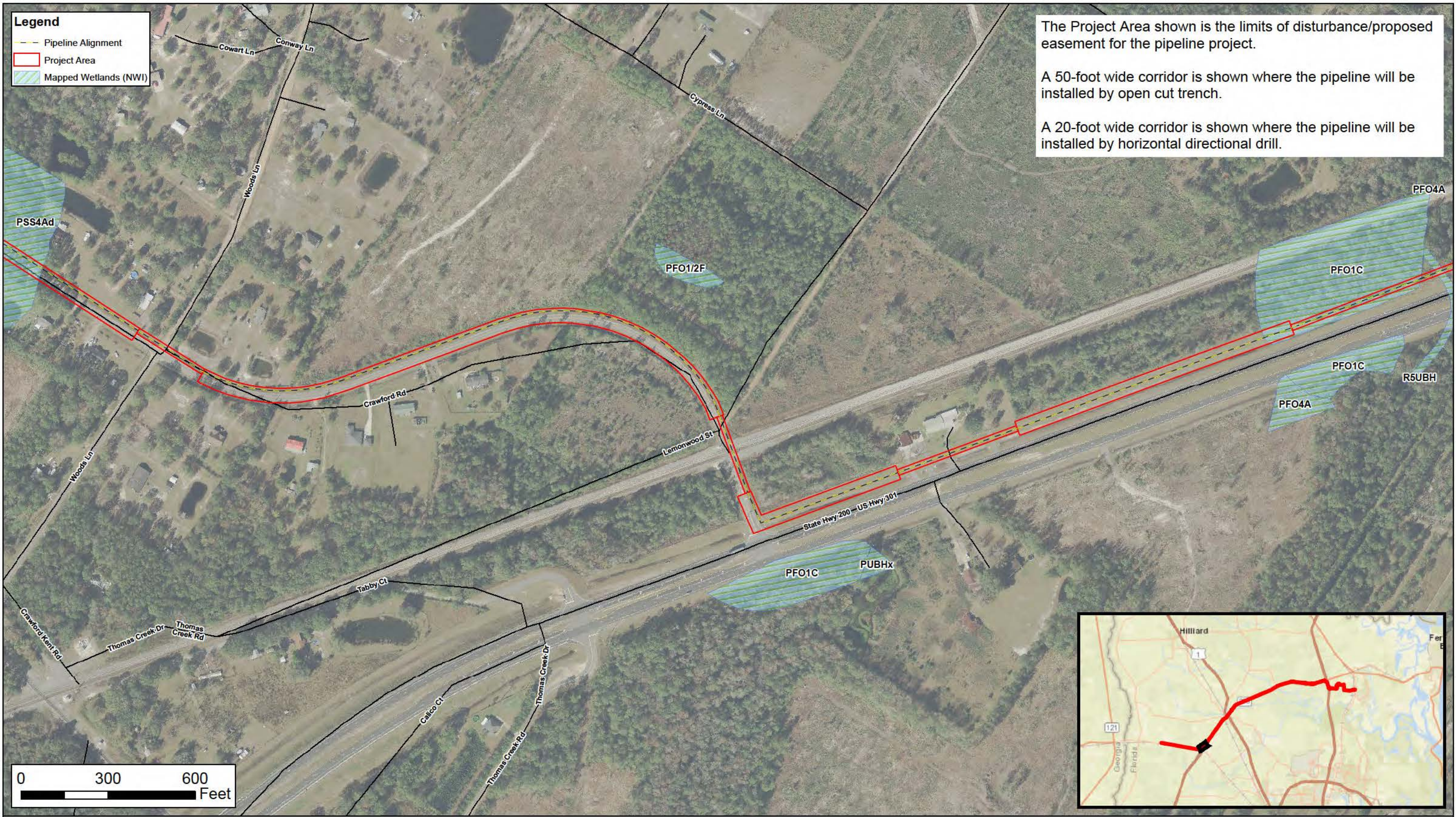




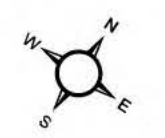
**Figure 3E - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



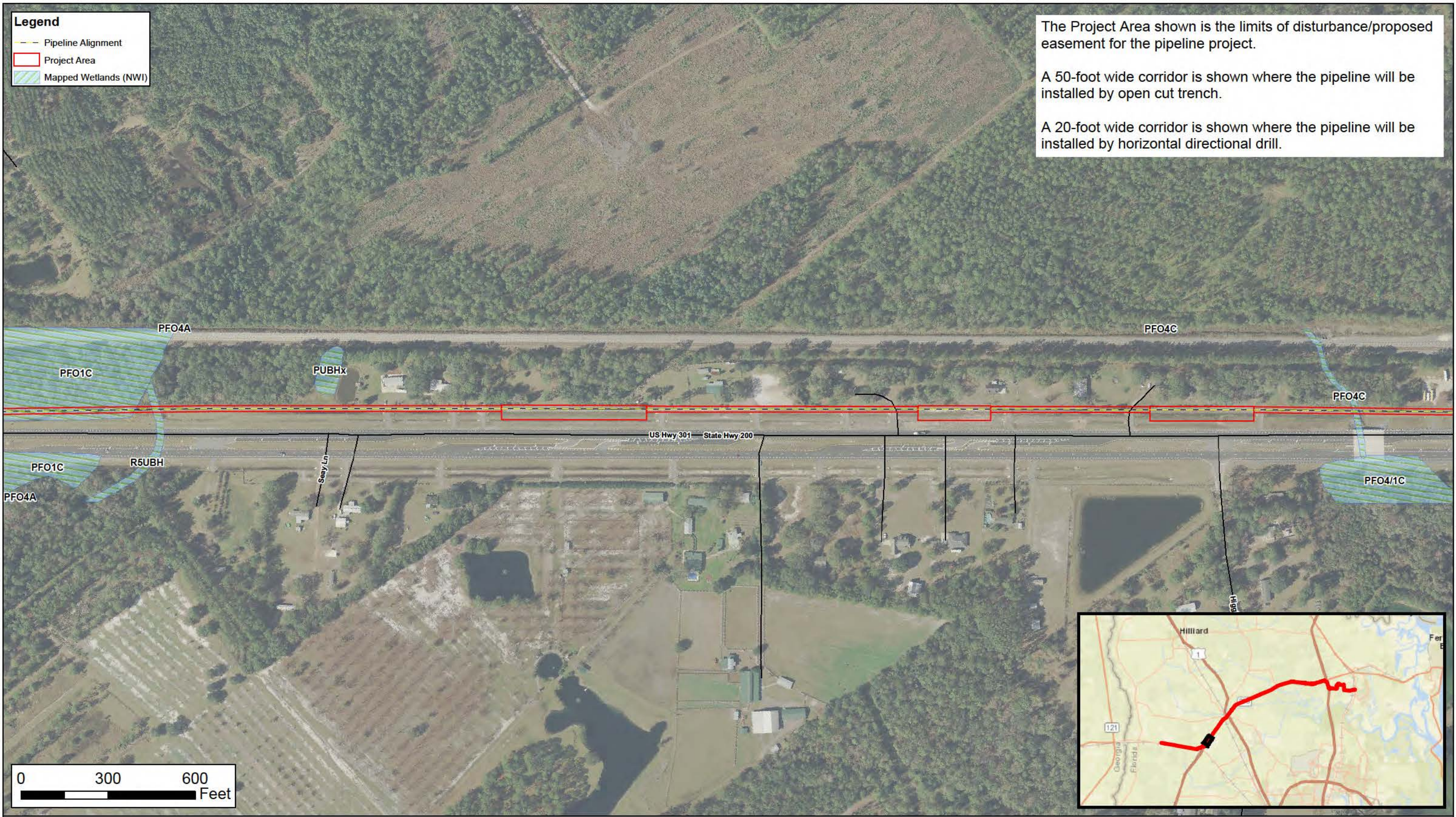




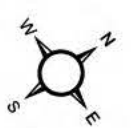
**Figure 3F - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



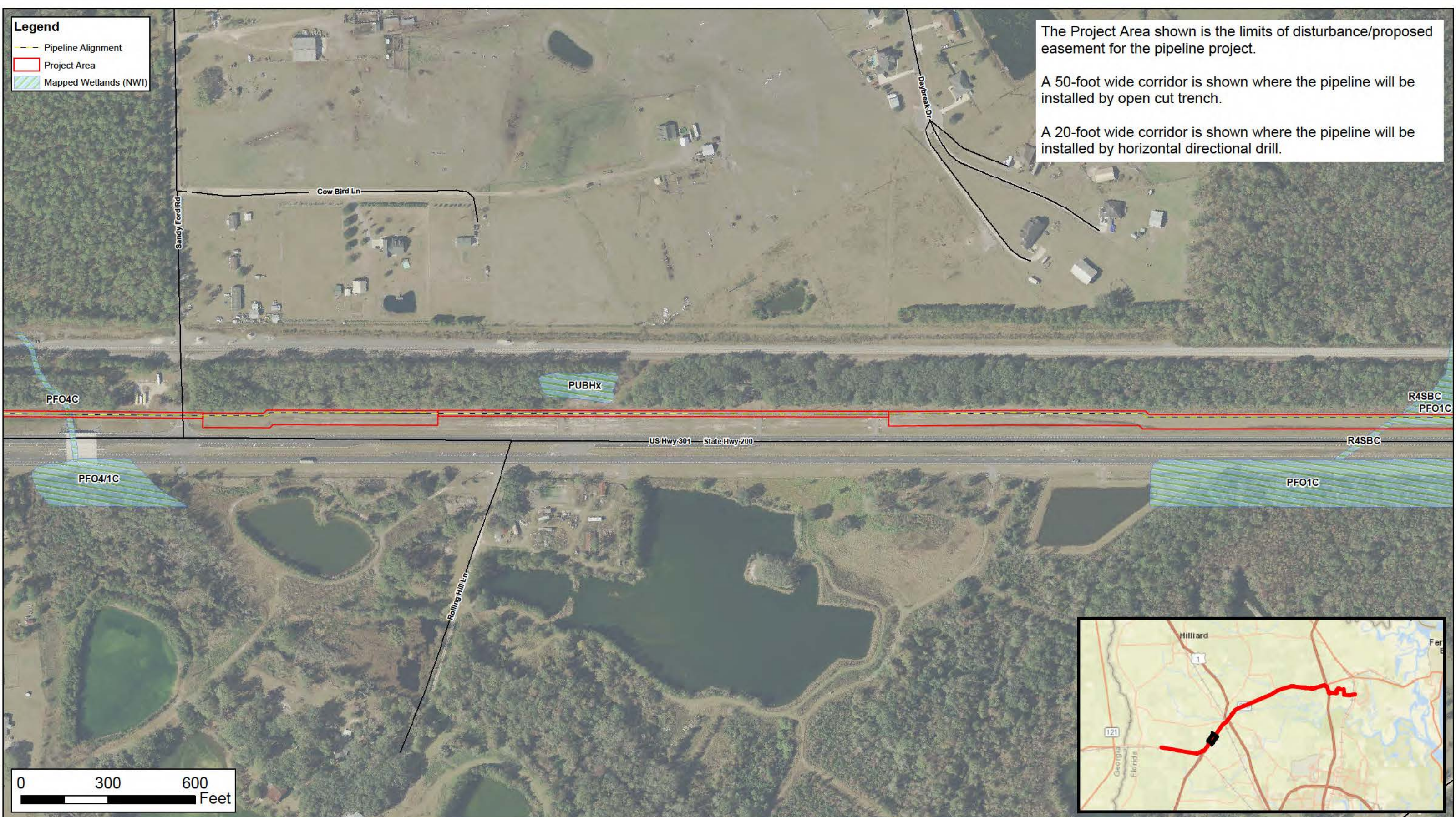




**Figure 3G - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



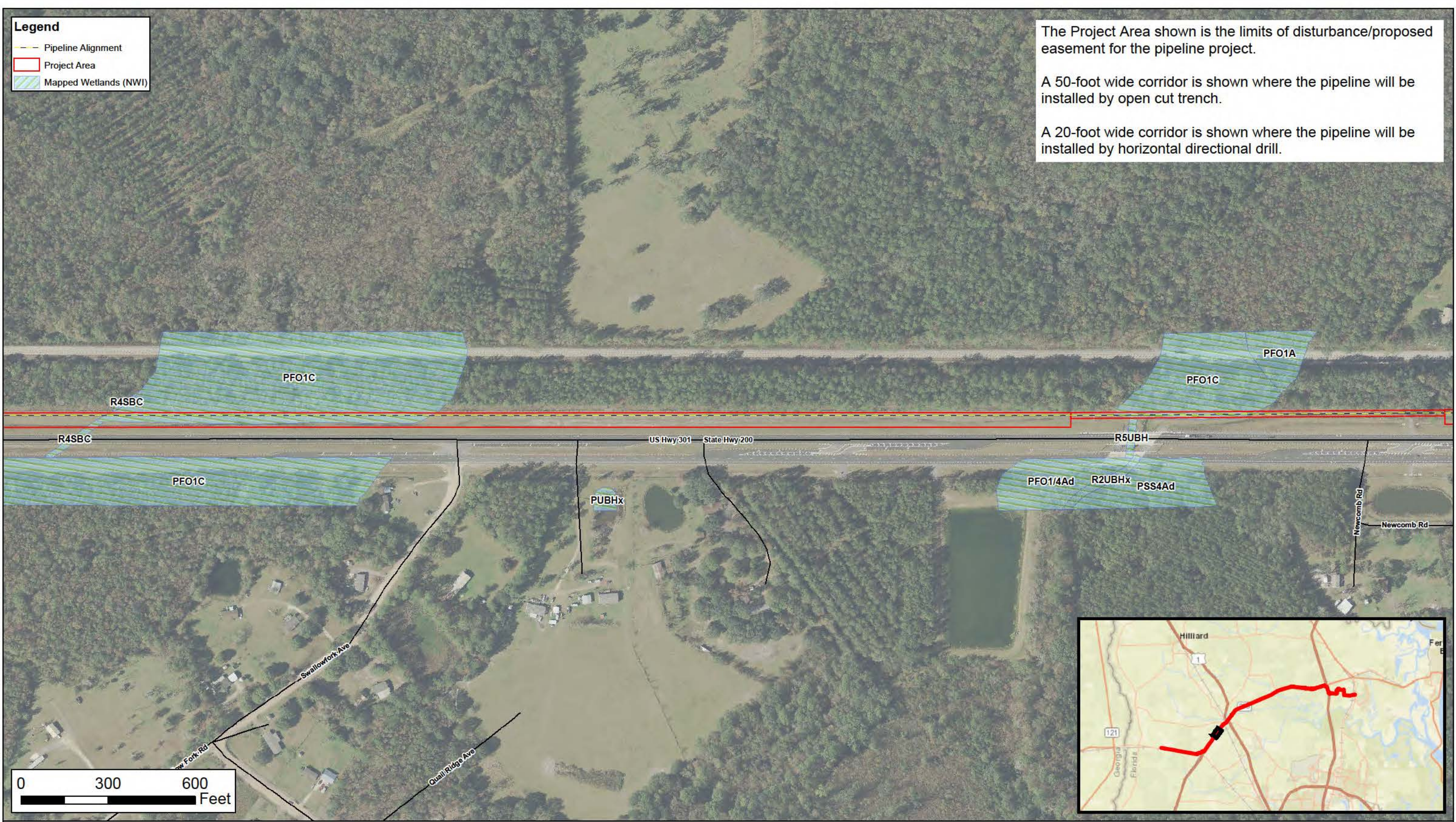




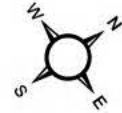
**Figure 3H - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



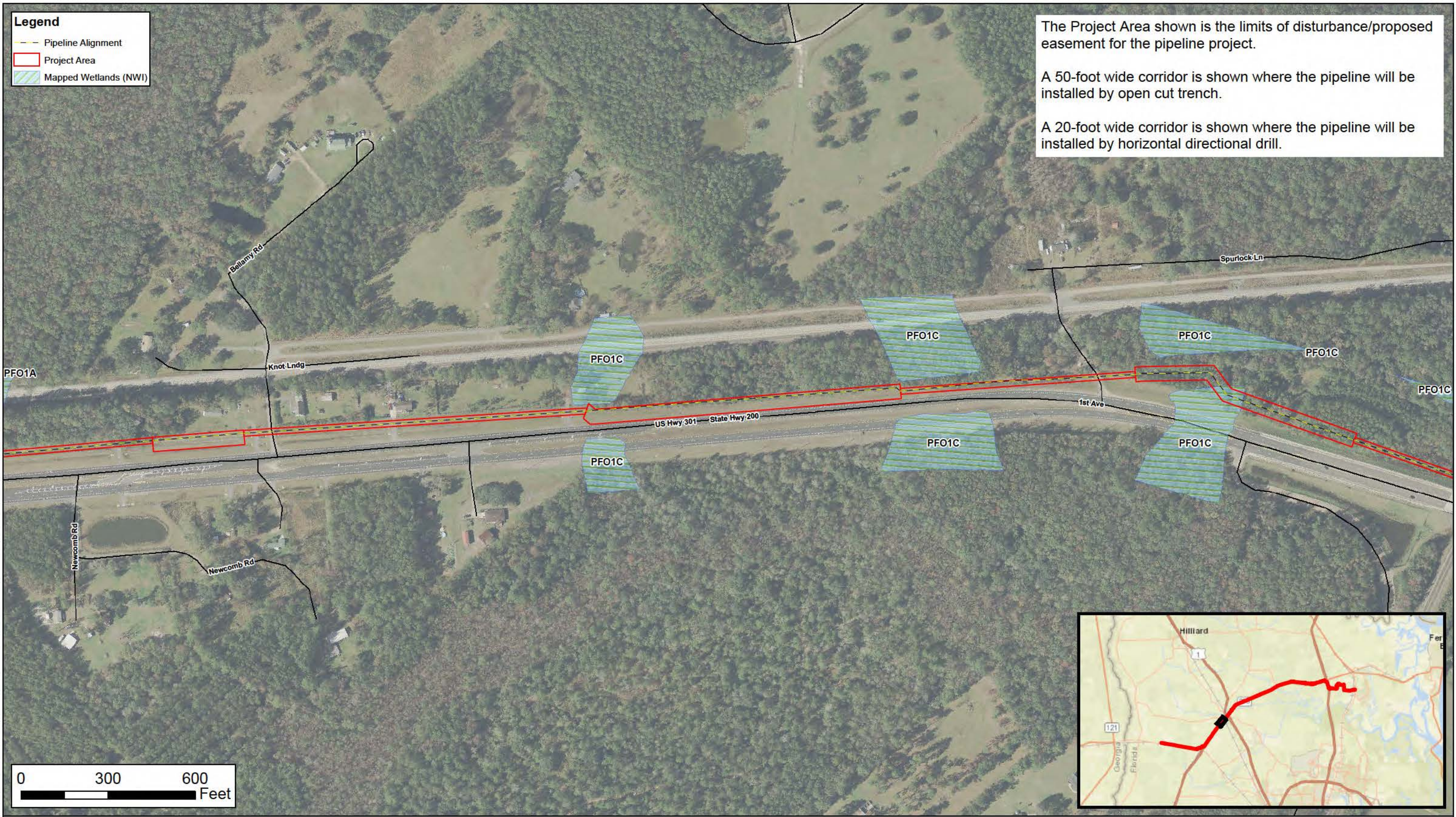




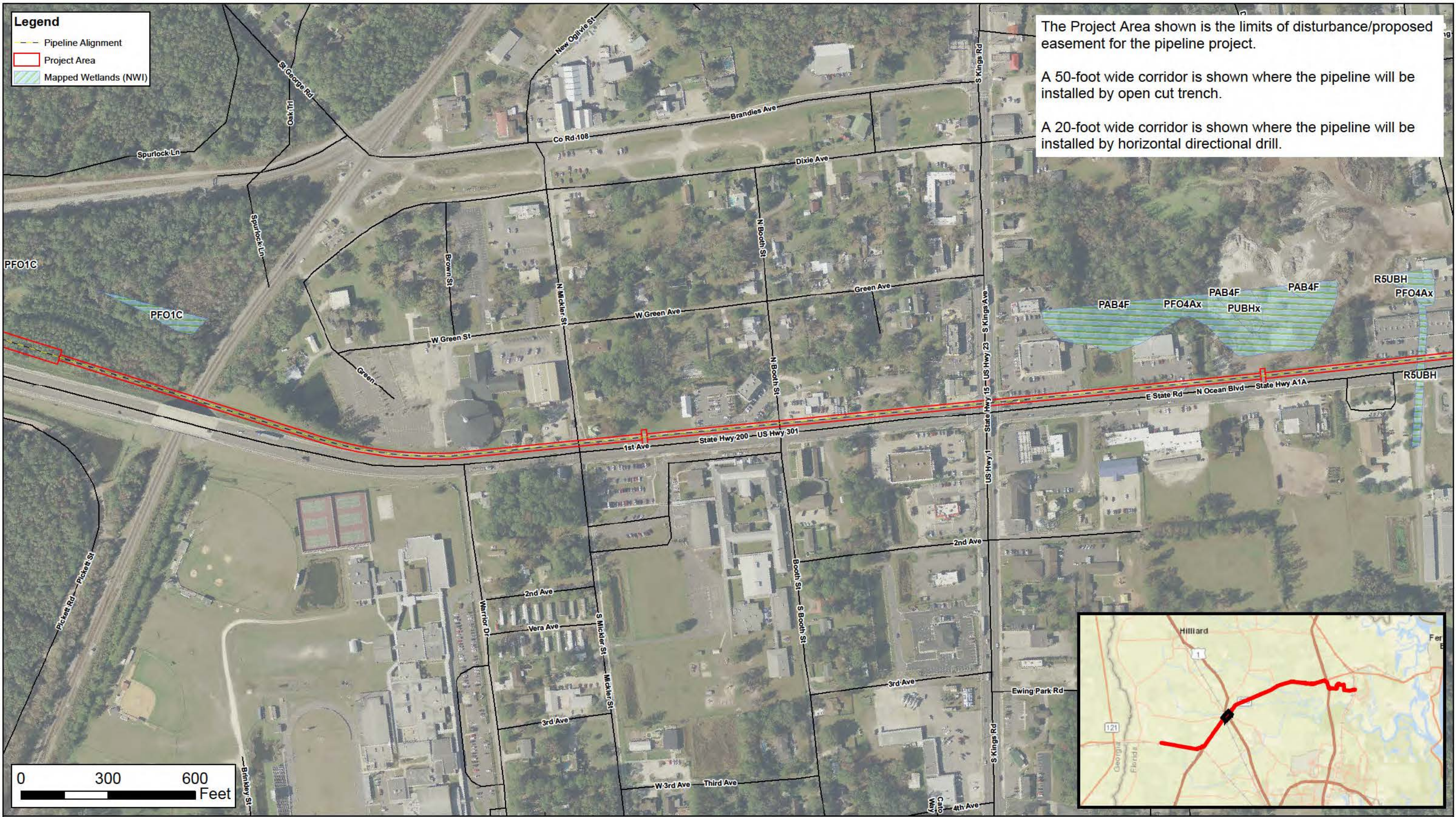
**Figure 3I - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**







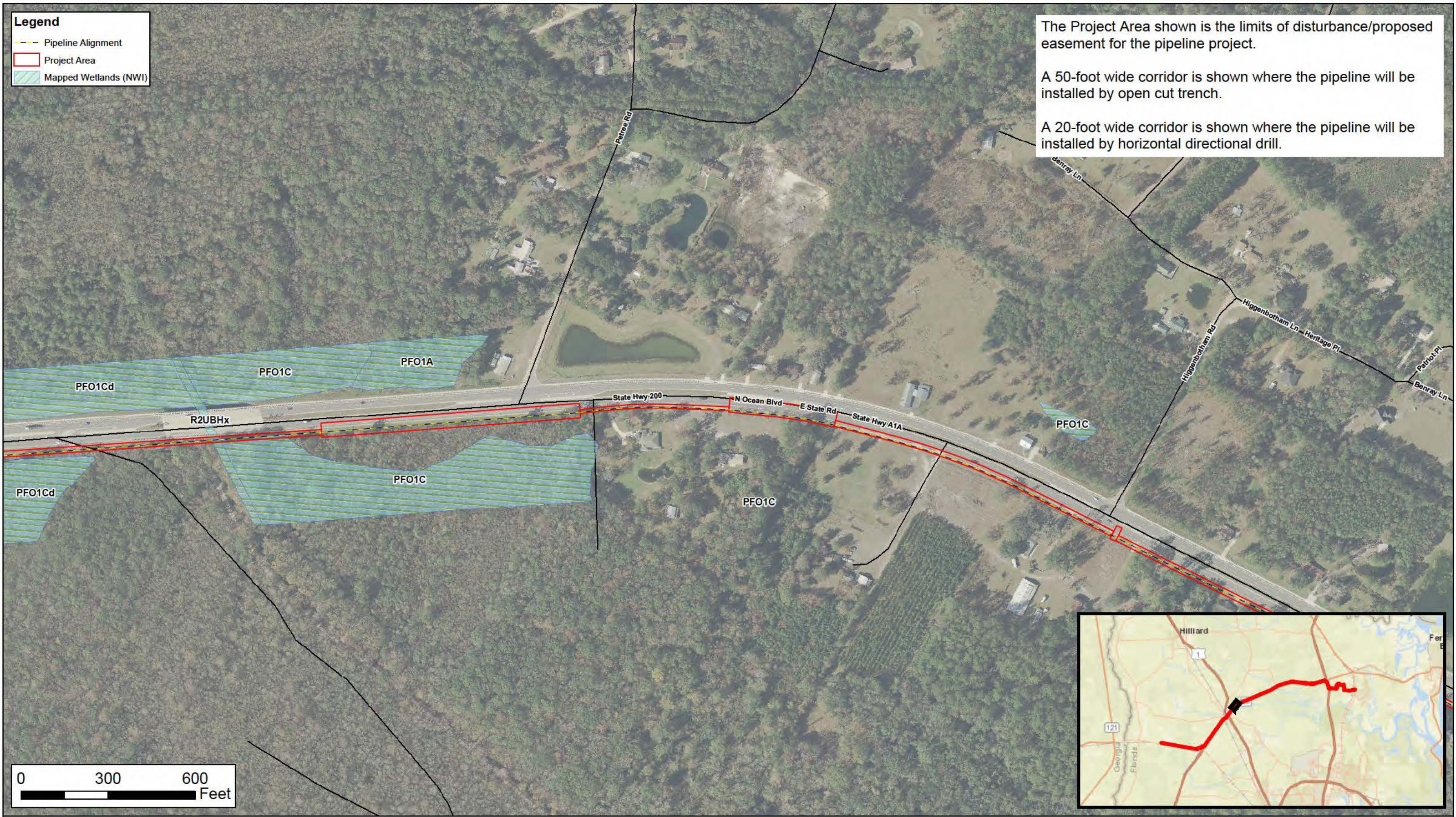












**Legend**

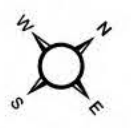
- Pipeline Alignment
- Project Area
- Mapped Wetlands (NWI)

The Project Area shown is the limits of disturbance/proposed easement for the pipeline project.

A 50-foot wide corridor is shown where the pipeline will be installed by open cut trench.

A 20-foot wide corridor is shown where the pipeline will be installed by horizontal directional drill.

**Figure 3M - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**







The Project Area shown is the limits of disturbance/proposed easement for the pipeline project.

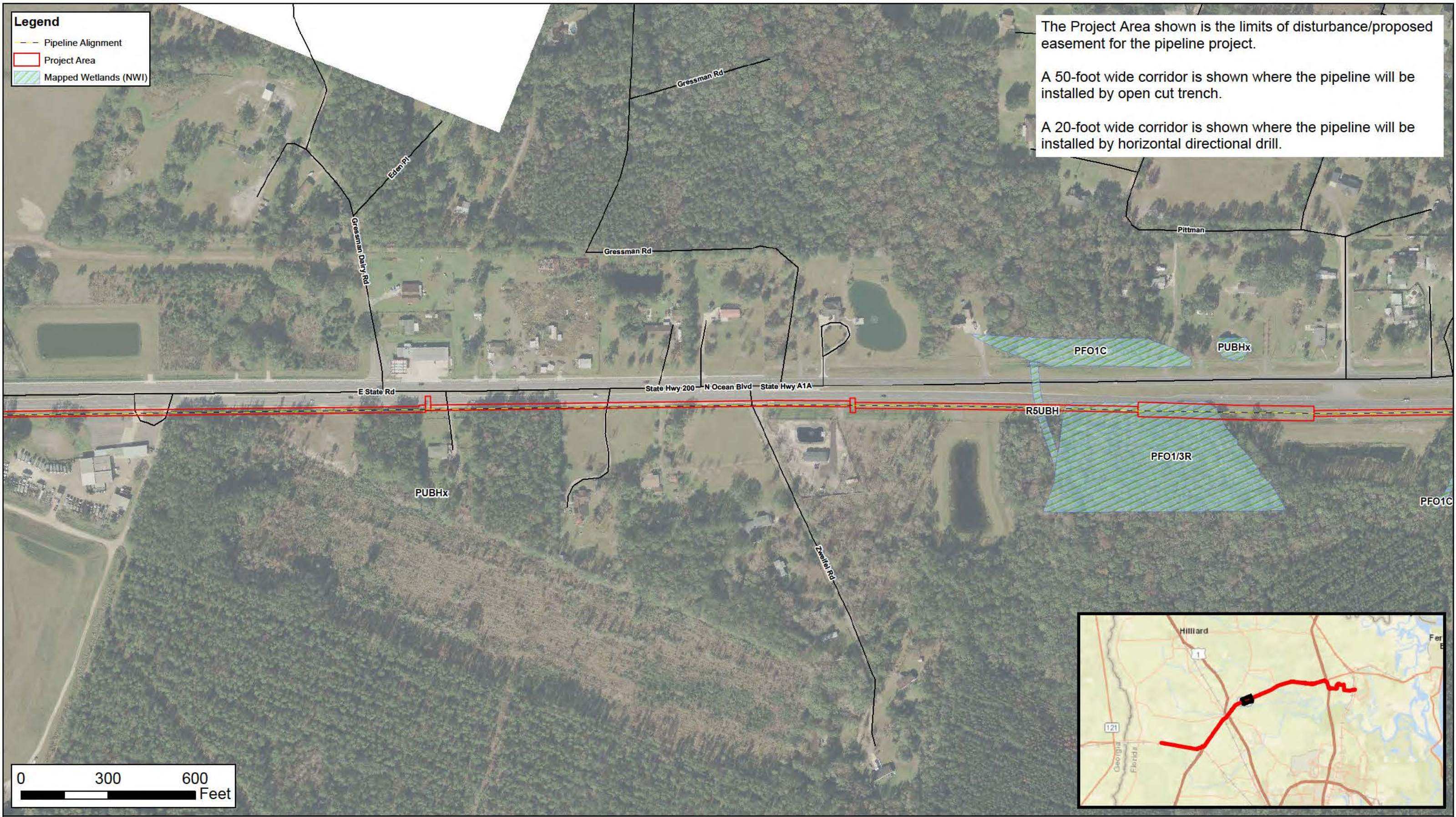
A 50-foot wide corridor is shown where the pipeline will be installed by open cut trench.

A 20-foot wide corridor is shown where the pipeline will be installed by horizontal directional drill.

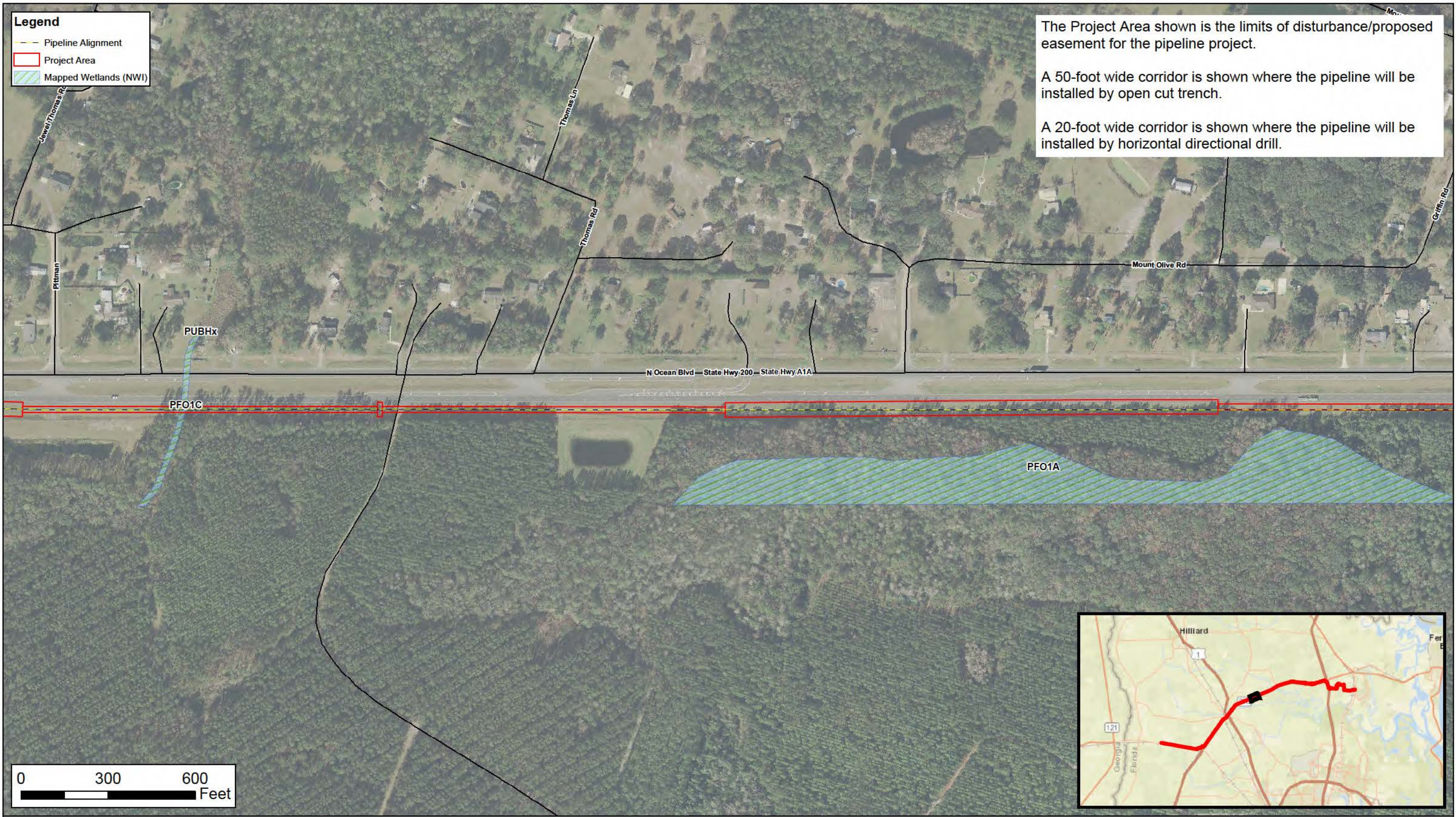
Figure 3N - National Wetlands Inventory (NWI) Map  
Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension  
Nassau County, Florida  
April 2019





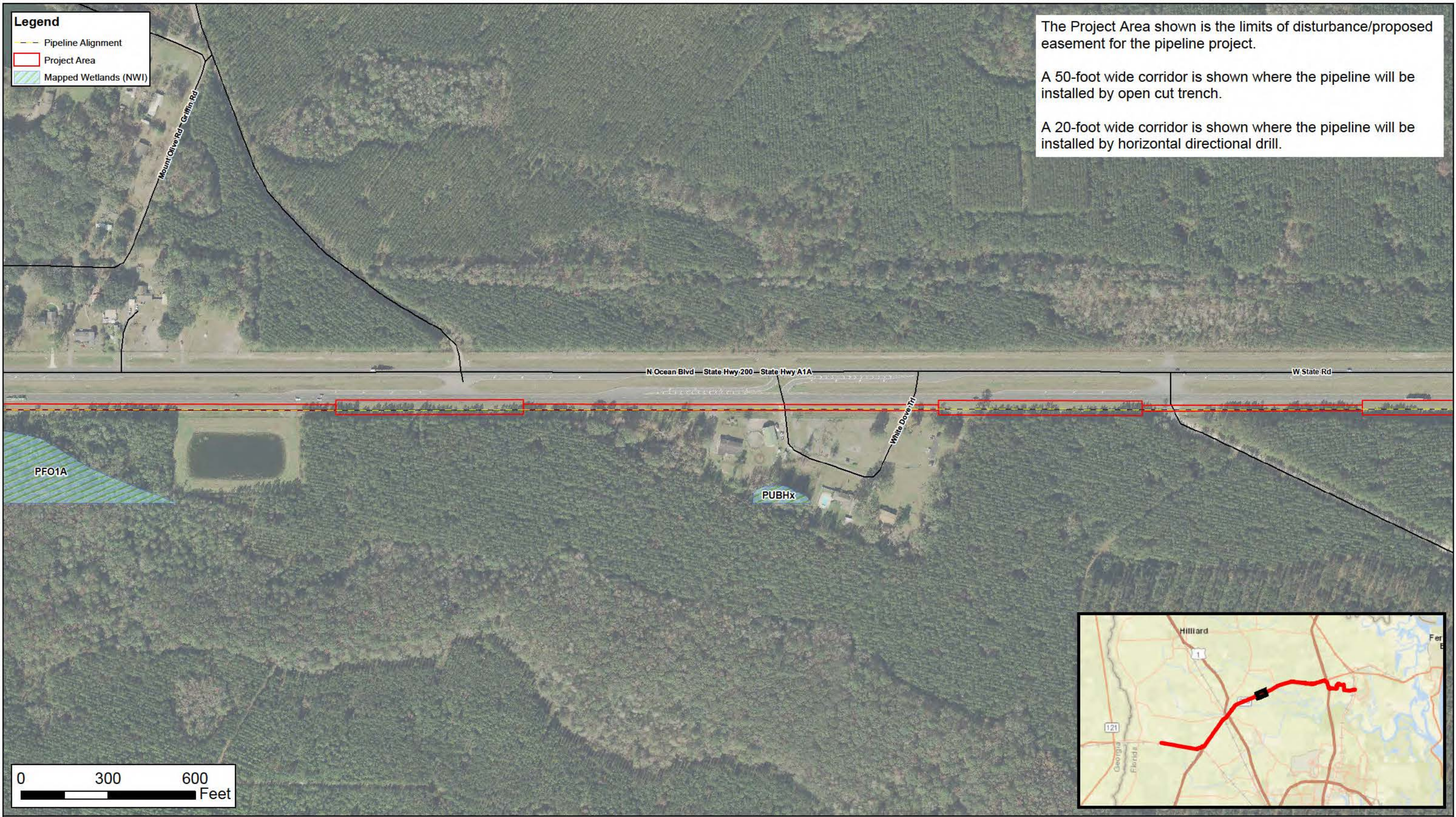






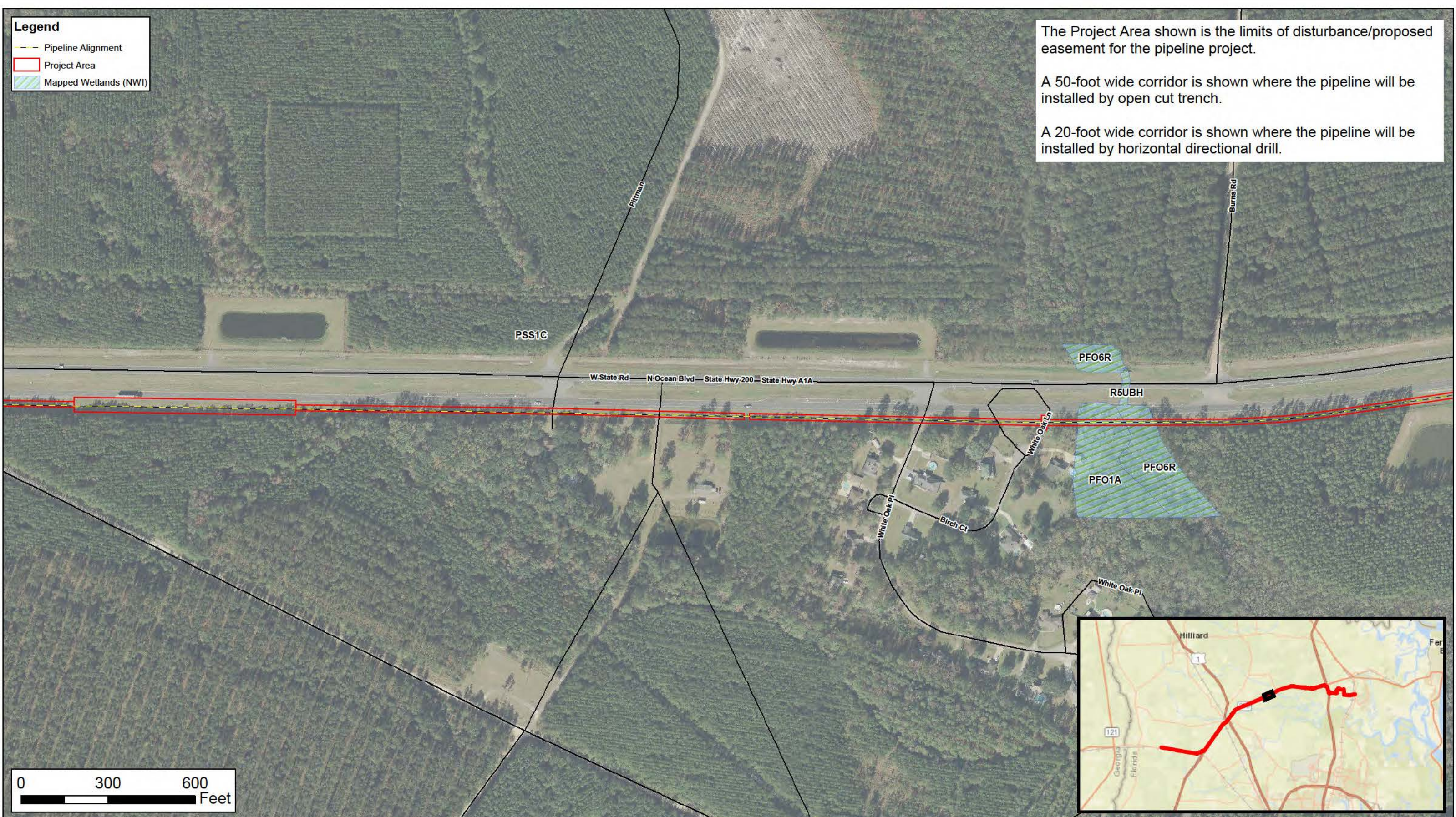
**Figure 3P - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



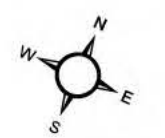


**Figure 3Q - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**

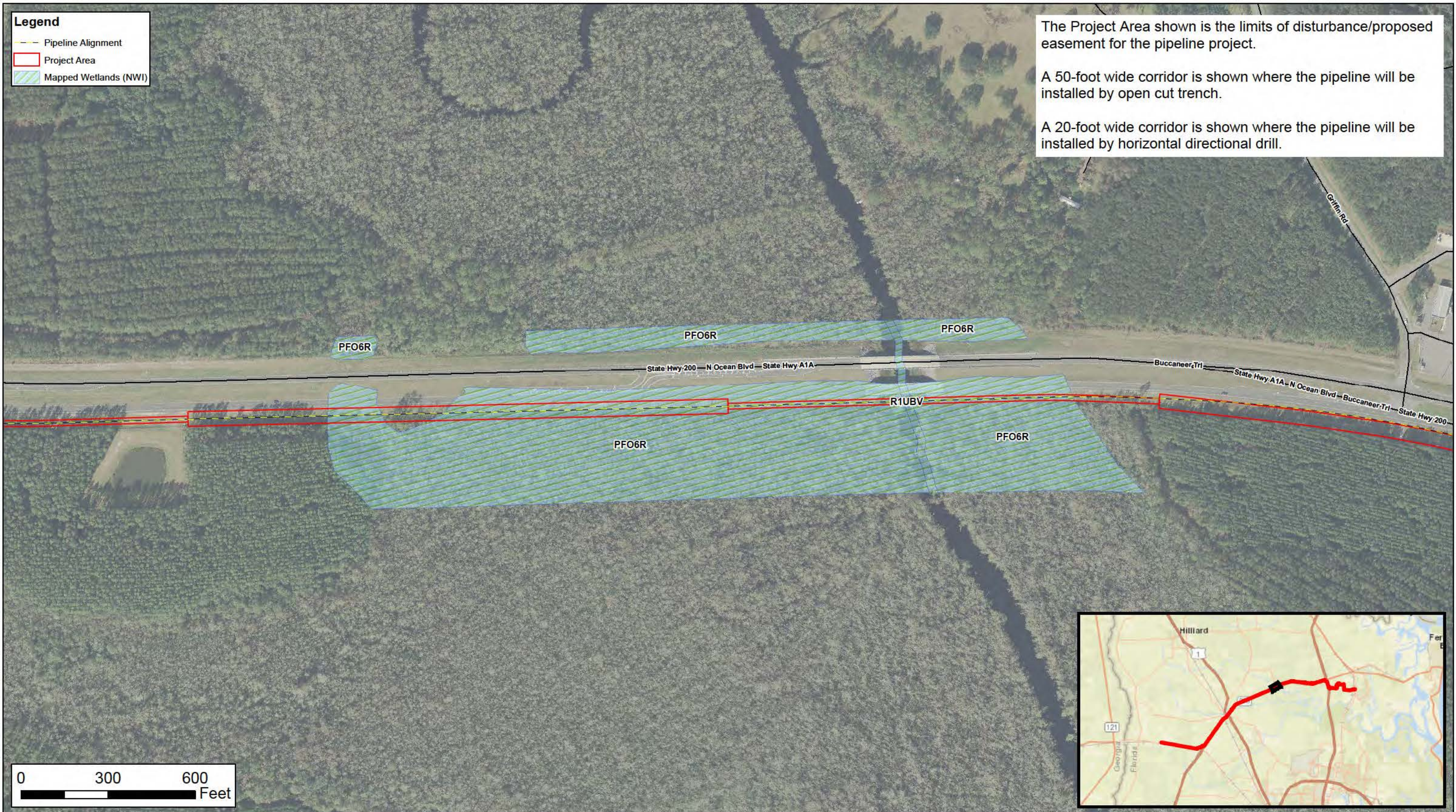




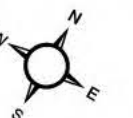
**Figure 3R - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



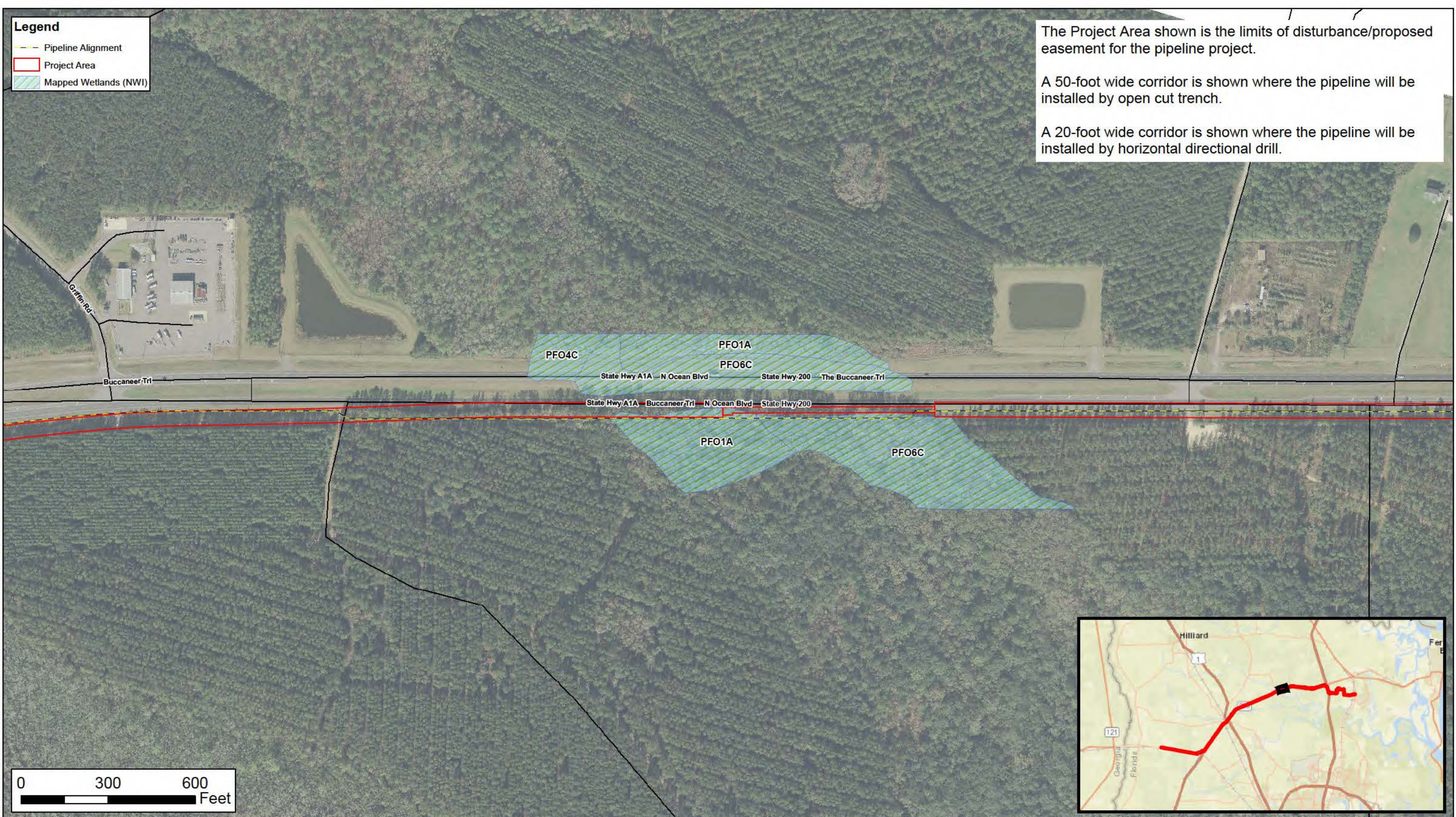




**Figure 3S - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**







**Legend**

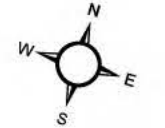
- Pipeline Alignment
- Project Area
- Mapped Wetlands (NWI)

The Project Area shown is the limits of disturbance/proposed easement for the pipeline project.

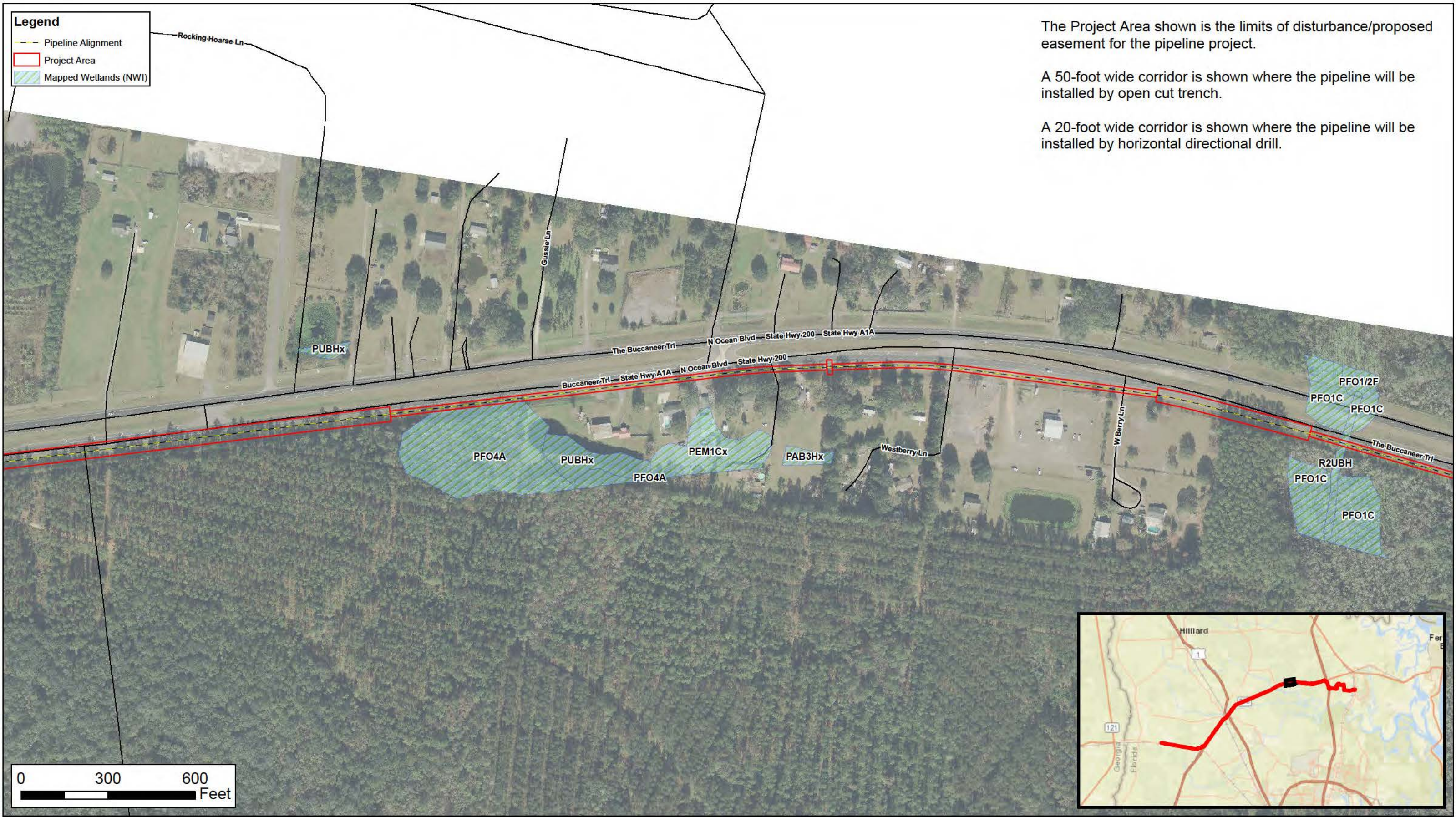
A 50-foot wide corridor is shown where the pipeline will be installed by open cut trench.

A 20-foot wide corridor is shown where the pipeline will be installed by horizontal directional drill.

**Figure 3T - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**





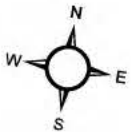


The Project Area shown is the limits of disturbance/proposed easement for the pipeline project.

A 50-foot wide corridor is shown where the pipeline will be installed by open cut trench.

A 20-foot wide corridor is shown where the pipeline will be installed by horizontal directional drill.

Figure 3U - National Wetlands Inventory (NWI) Map  
Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension  
Nassau County, Florida  
April 2019





**Legend**

Pipeline Alignment

Project Area

Mapped Wetlands (NWI)

The Project Area shown is the limits of disturbance/proposed easement for the pipeline project.

A 50-foot wide corridor is shown where the pipeline will be installed by open cut trench.

A 20-foot wide corridor is shown where the pipeline will be installed by horizontal directional drill.

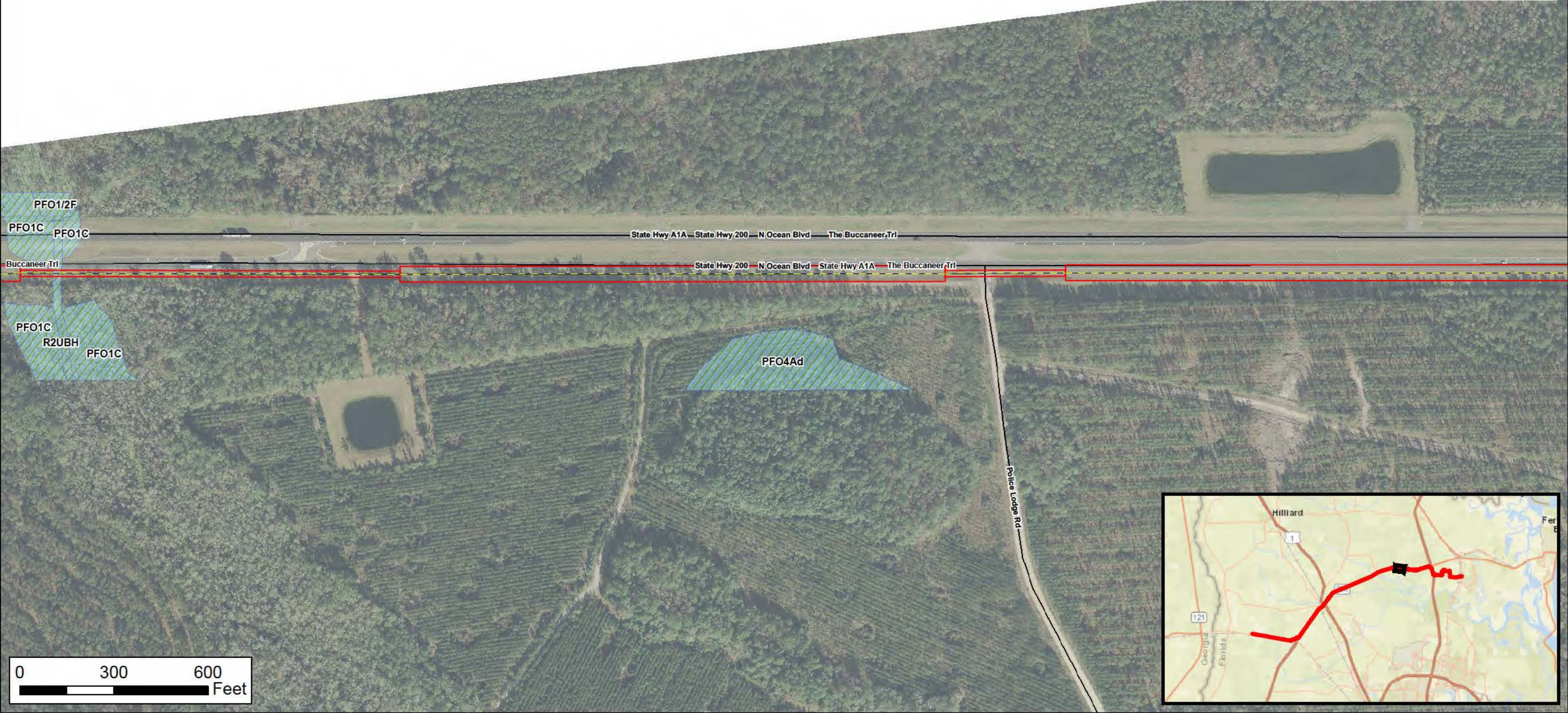
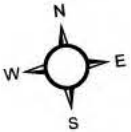


Figure 3V - National Wetlands Inventory (NWI) Map

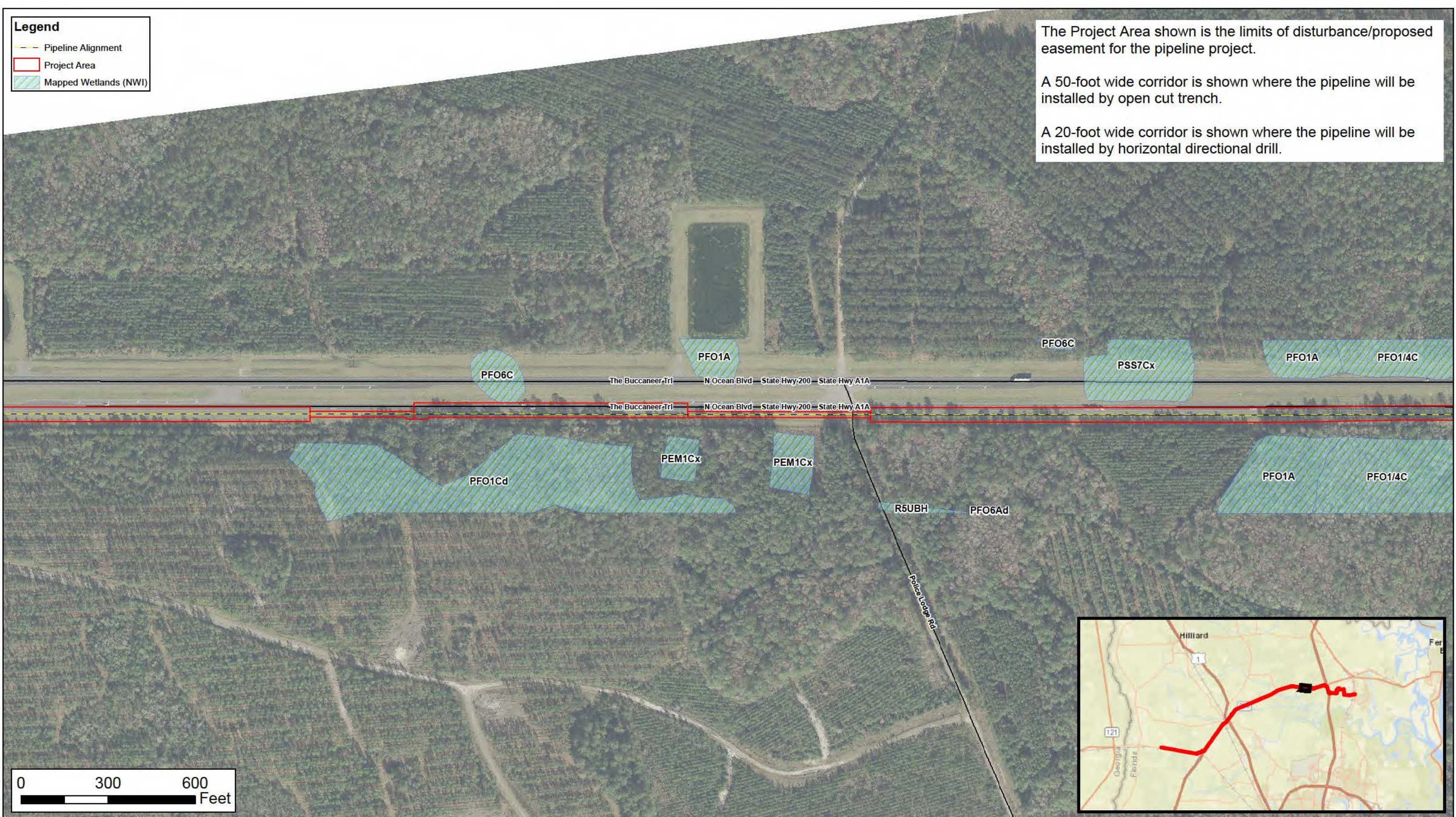
Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension

Nassau County, Florida

April 2019





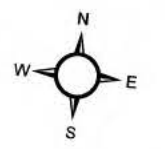


**Figure 3W - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**

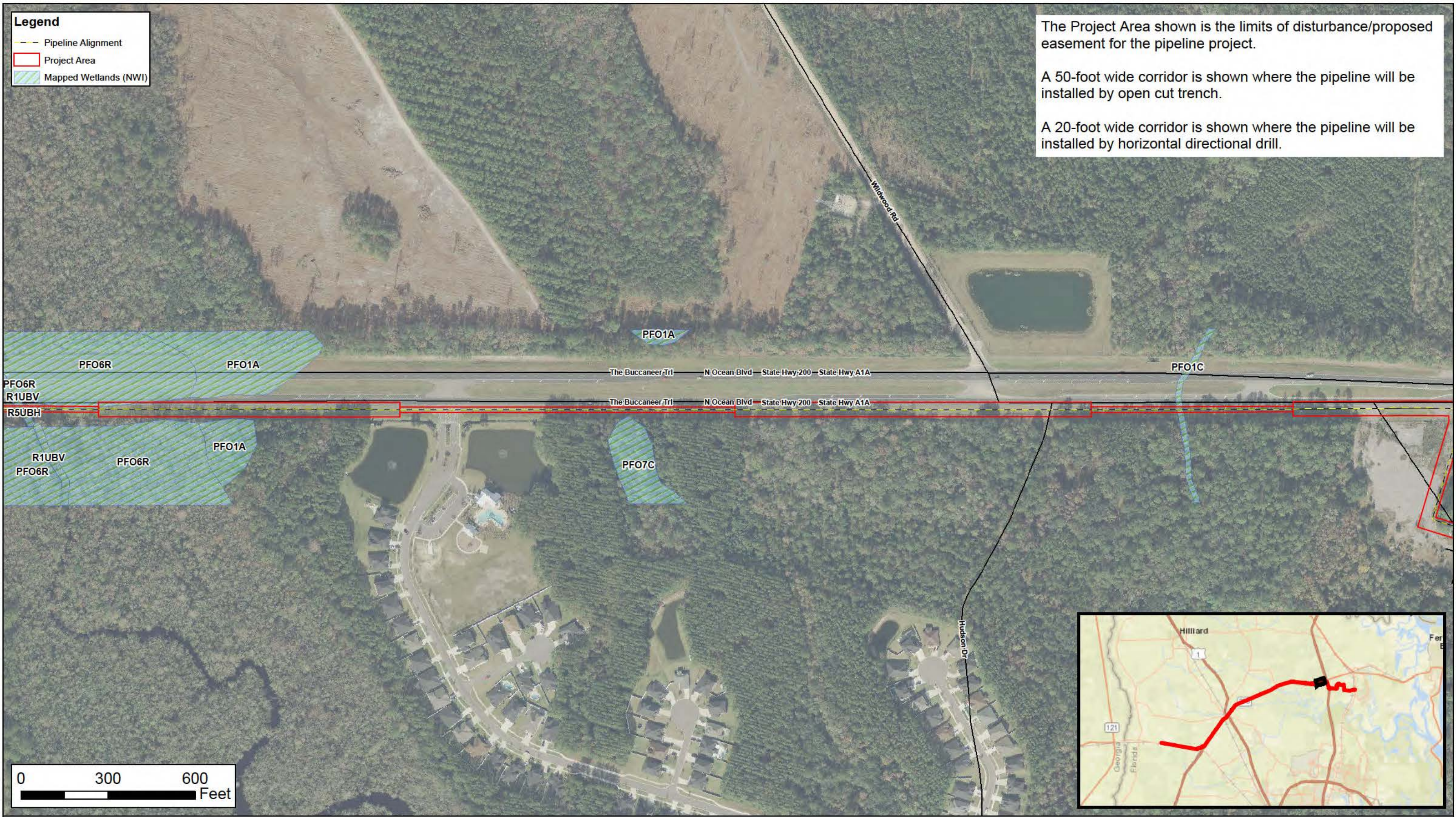




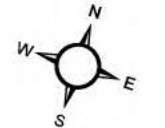
**Figure 3X - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



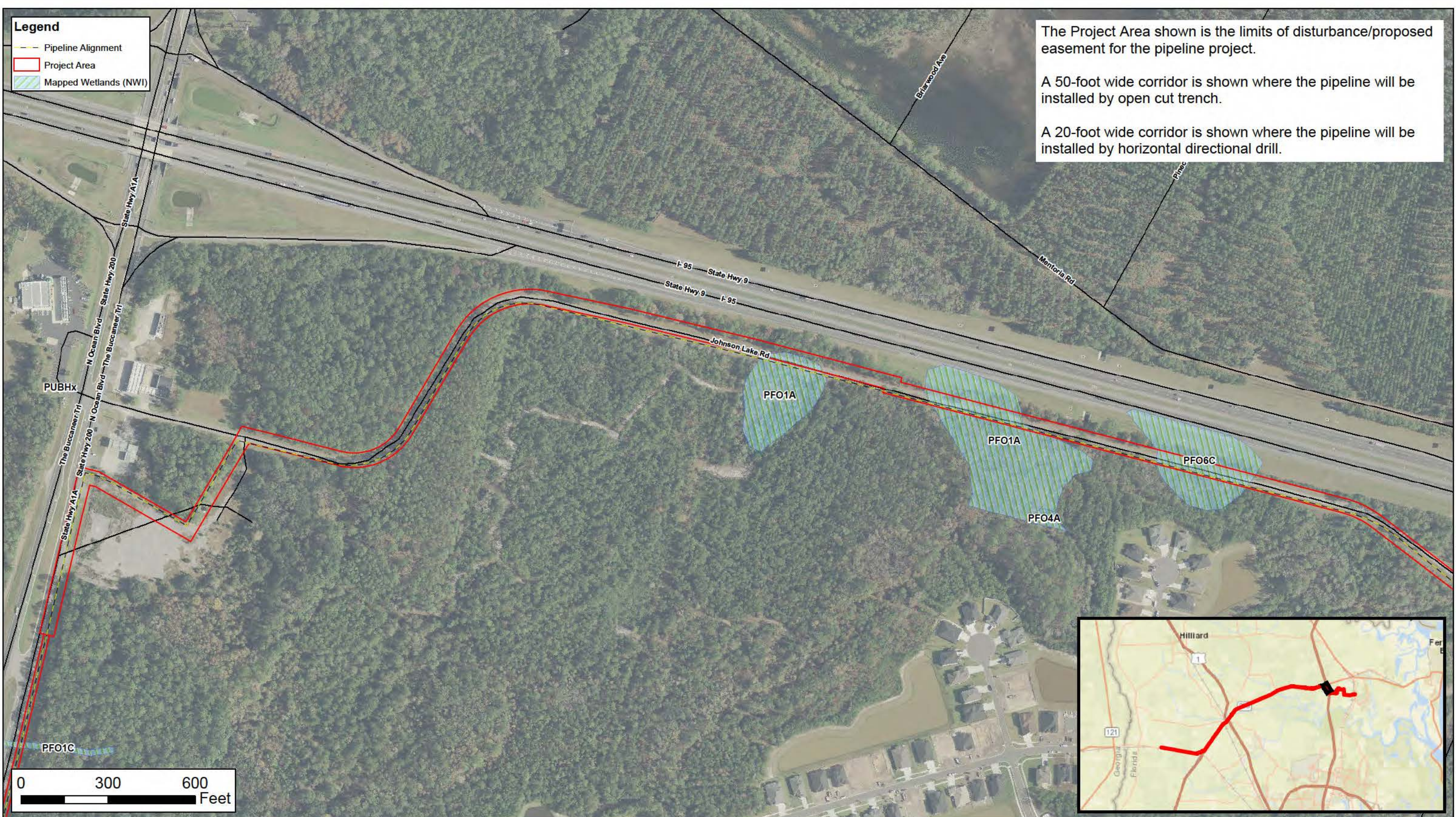




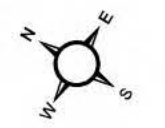
**Figure 3Y - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



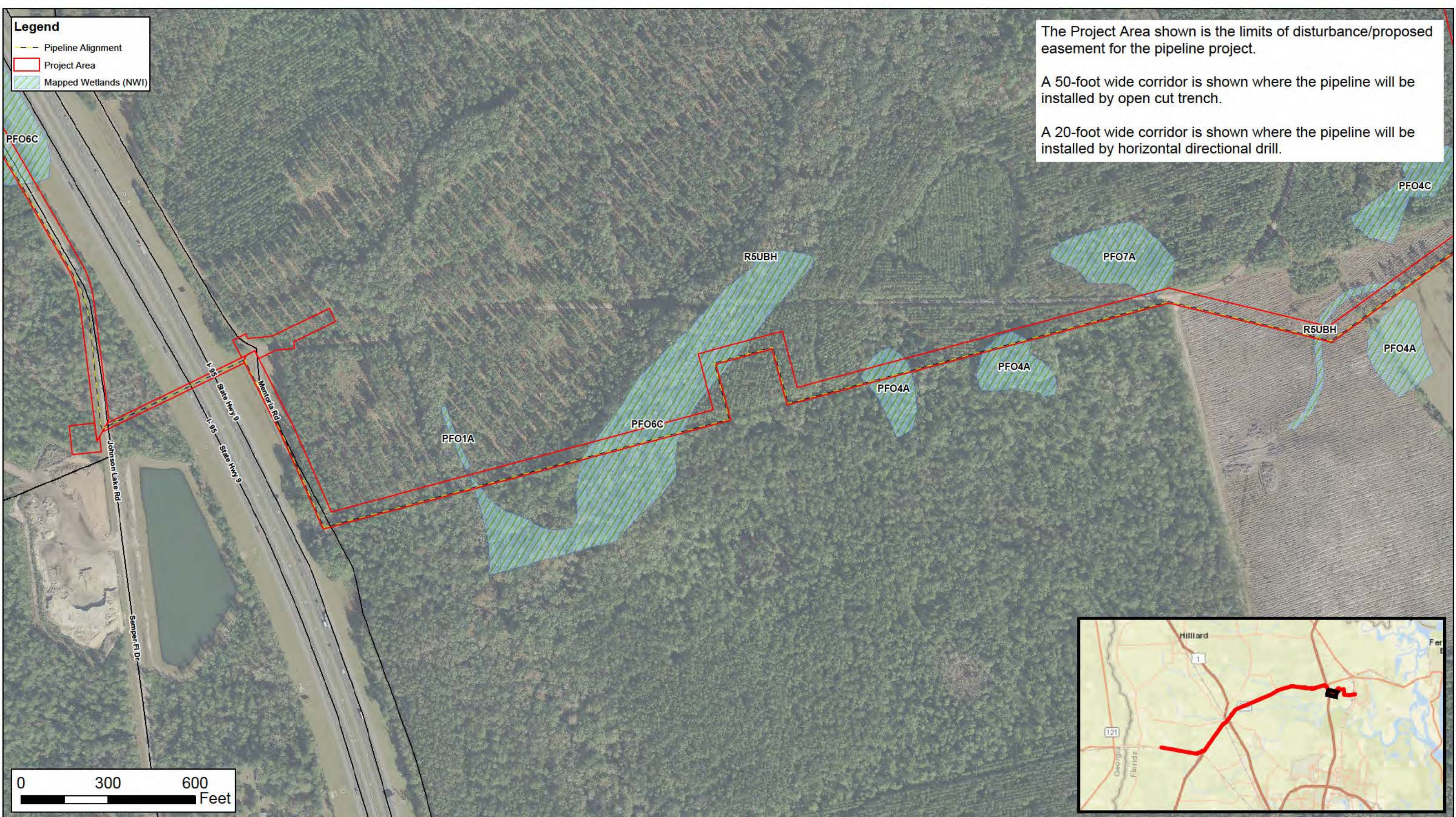




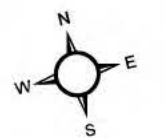
**Figure 3Z - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



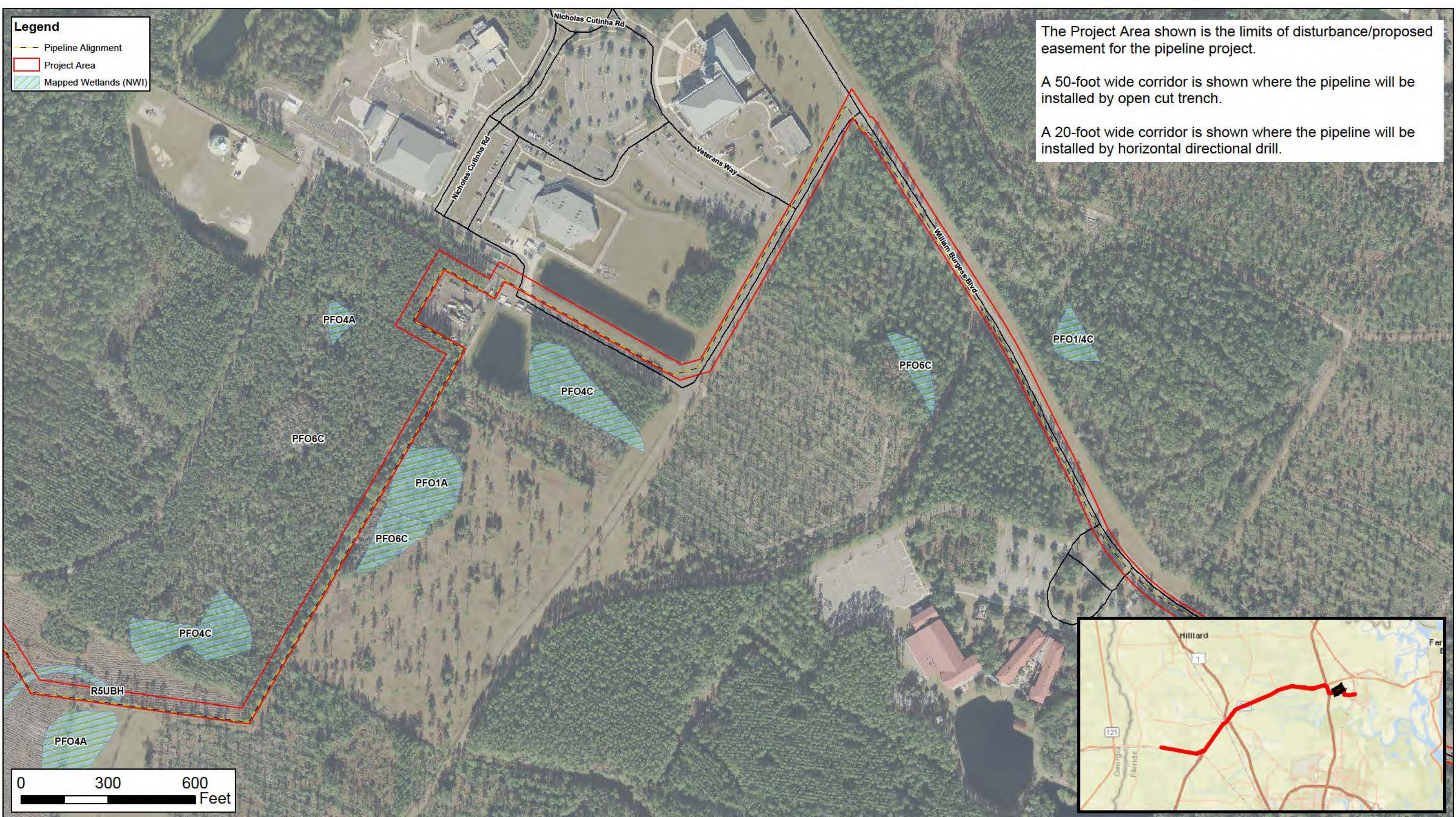




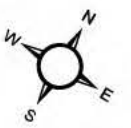
**Figure 3AA - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**



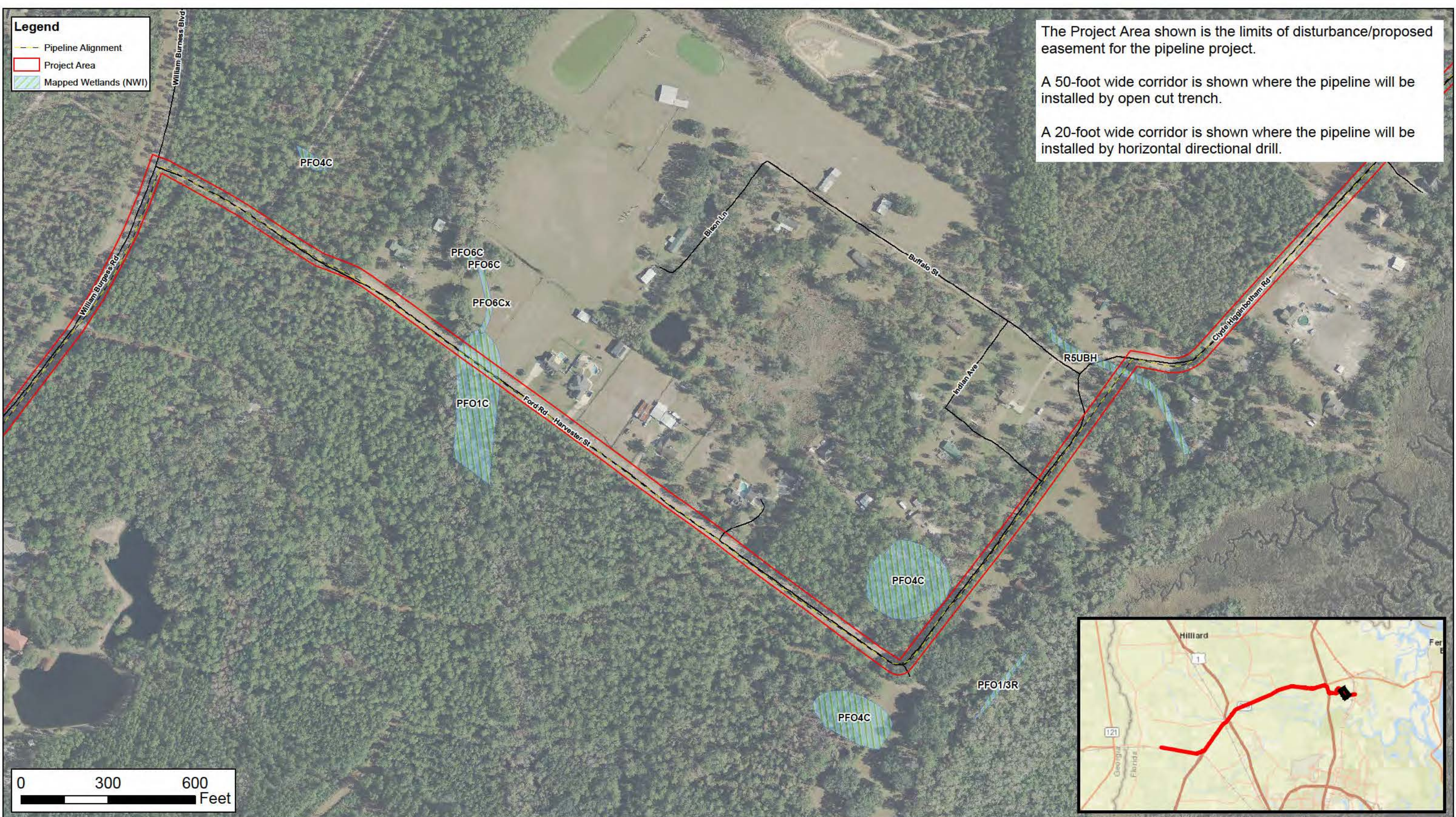




**Figure 3AB - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**







The Project Area shown is the limits of disturbance/proposed easement for the pipeline project.

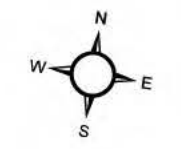
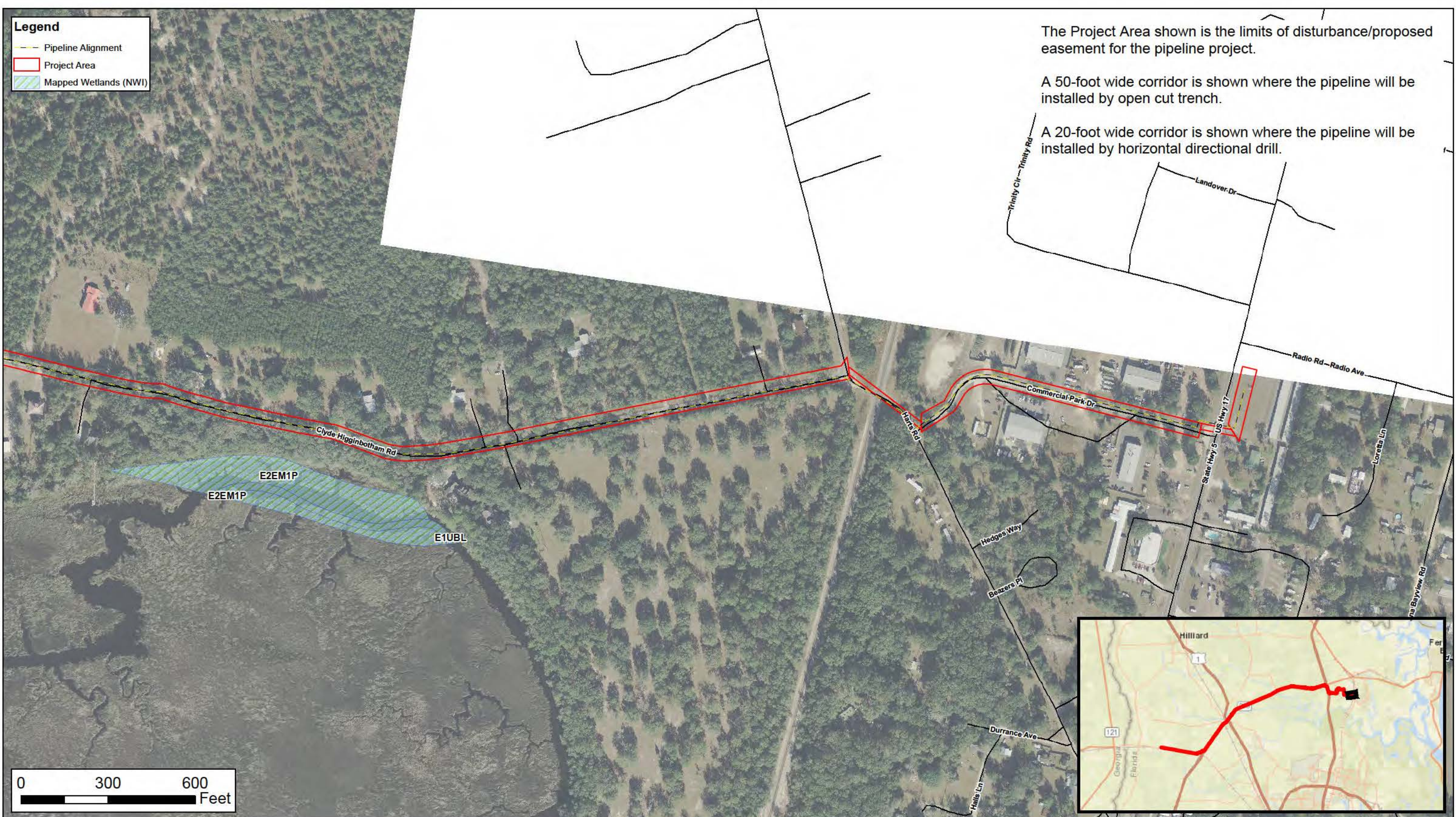
A 50-foot wide corridor is shown where the pipeline will be installed by open cut trench.

A 20-foot wide corridor is shown where the pipeline will be installed by horizontal directional drill.

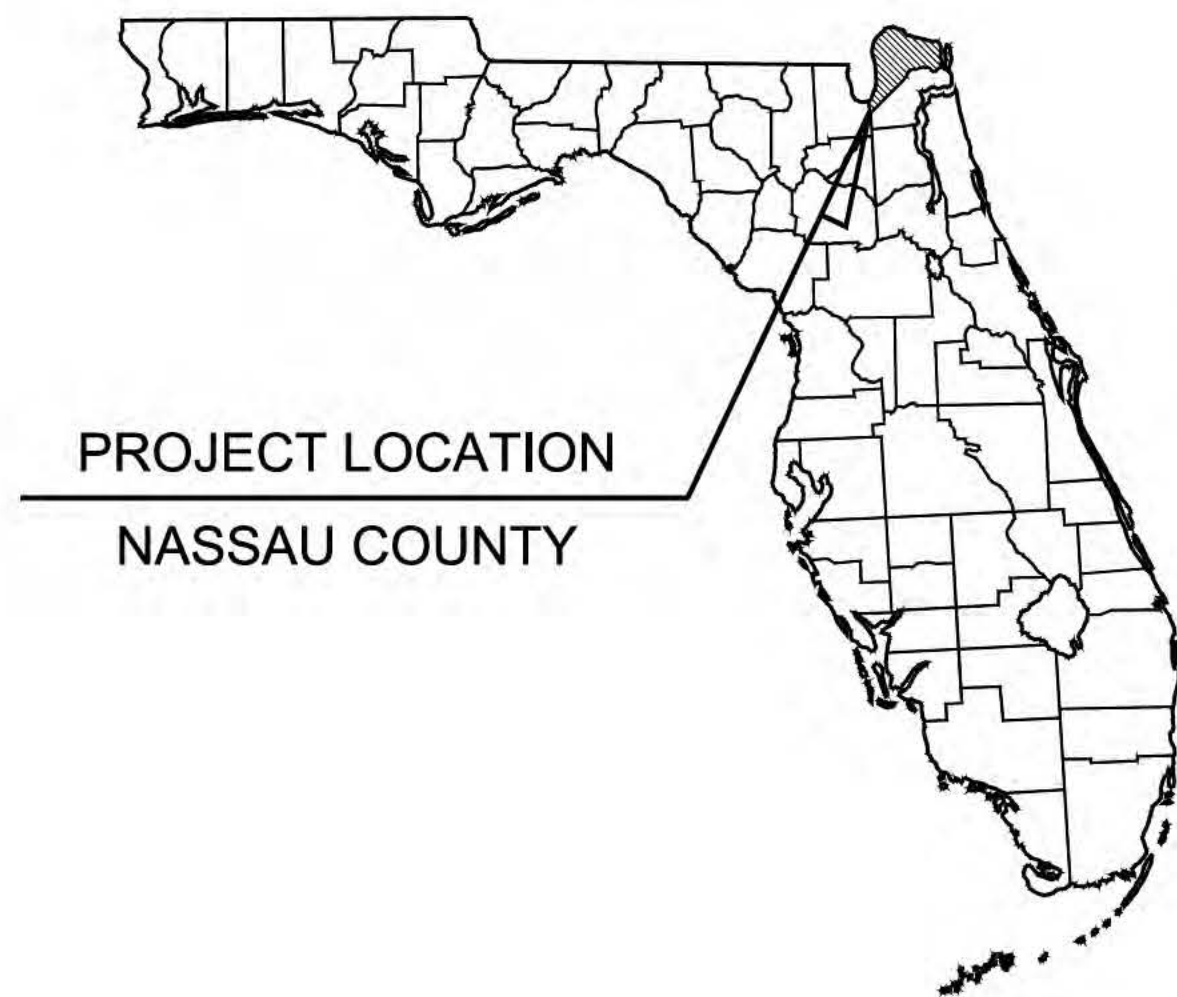
**Figure 3AC - National Wetlands Inventory (NWI) Map**  
**Peninsula Pipeline - Callahan 16" Steel Natural Gas Main Extension**  
**Nassau County, Florida**  
**April 2019**











# CALLAHAN PIPELINE 16" STEEL NATURAL GAS MAIN EXTENSION NASSAU COUNTY, FL

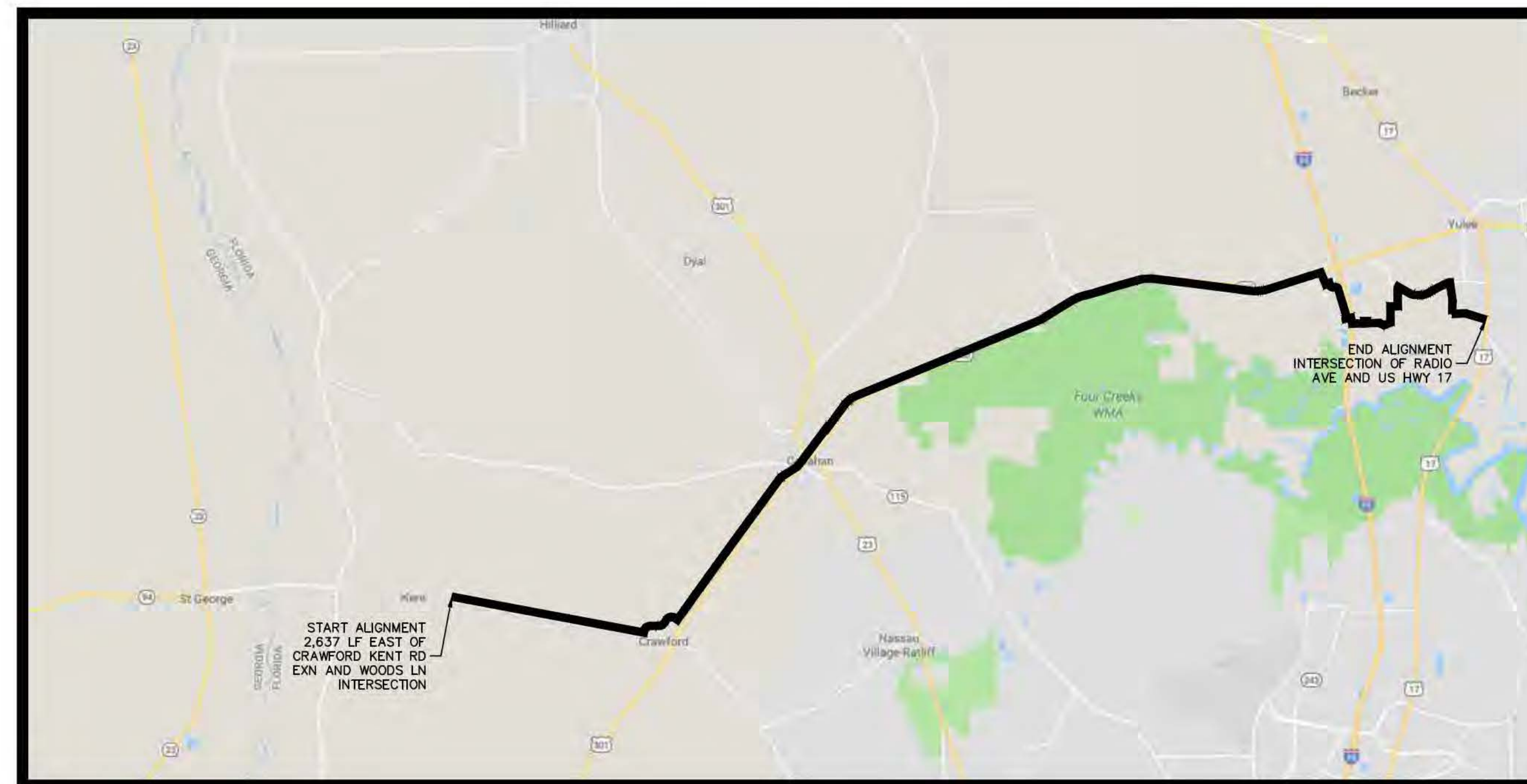
## CONTACTS

OWNER: PENINSULA PIPELINE  
1705 7TH ST SW  
WINTER HAVEN, FL 33880  
561-629-6433

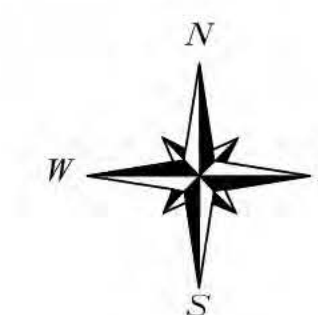
ENGINEER: KIMLEY-HORN AND ASSOCIATES, INC.  
189 SOUTH ORANGE AVENUE STE 1000  
ORLANDO, FLORIDA 32801  
407-427-1685

SURVEYOR: ATWELL  
1800 PARKWAY PLACE, SUITE 700  
MARIETTA, GA 30067  
770-423-0807

24-HOUR CONTACT: PENINSULA PIPELINE  
JOHN BURKE  
561-629-6433



**PROJECT LOCATION**  
NOT TO SCALE



PREPARED IN THE OFFICE OF:

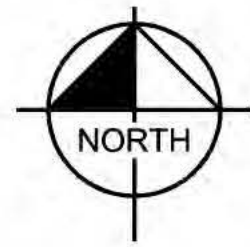
# Kimley»Horn

189 SOUTH ORANGE AVENUE  
SUITE 1000  
ORLANDO, FLORIDA 32801  
PHONE: (407) 427-1685

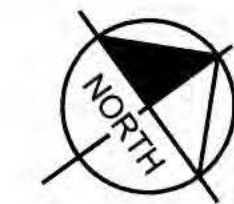
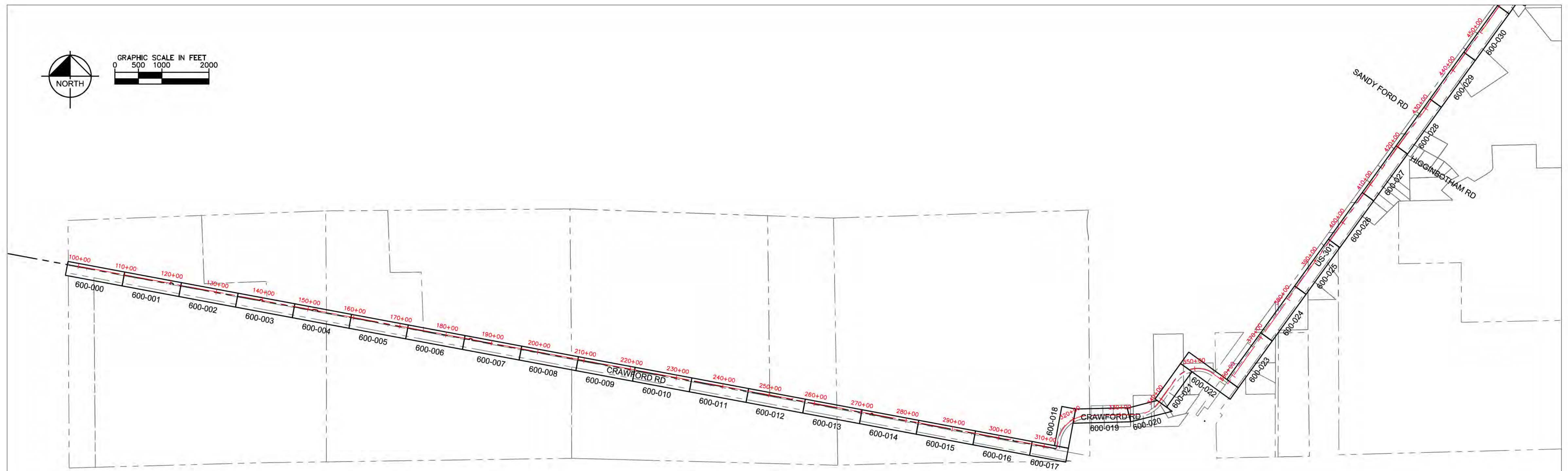
## REVISIONS

REVISIONS		ISSUED FOR CONSTRUCTION BY DATE
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0 500 1000 2000



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ENGINEER:

**Kimley»Horn**

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SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

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**PENINSULA**  
PIPELINE

PROJECT NAME:

**CALLAHAN PIPELINE 16" TRANSMISSION MAIN**

SHEET TITLE:

**KEY SHEET**

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SCALE (V): AS SHOWN  
DRAWN BY: AK  
DESIGNED BY: MA  
CHECKED BY: RC

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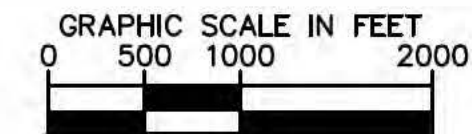
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PLANS**

KHA PROJECT NUMBER:  
**143797004**

DRAWING NUMBER:  
**000-003**

SHEET INDEX:  
**4 OF 142**





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ENGINEER:

**Kimley»Horn**

189 SOUTH ORANGE  
SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

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**PENINSULA**  
PIPELINE

PROJECT NAME:

**CALLAHAN PIPELINE 16" TRANSMISSION MAIN**

SHEET TITLE:

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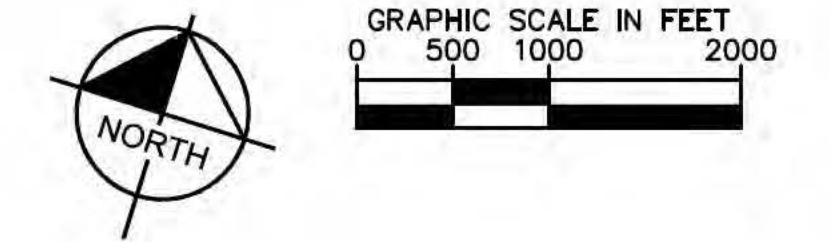
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DESIGNED BY: MA
CHECKED BY: RC

SEAL:

**90%  
PLANS**

KHA PROJECT NUMBER: <b>143797004</b>
DRAWING NUMBER: <b>000-004</b>
SHEET INDEX: <b>5 OF 142</b>





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ENGINEER:

**Kimley»Horn**

189 SOUTH ORANGE  
SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

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CLIENT:

**PENINSULA  
PIPELINE**

PROJECT NAME:

**CALLAHAN PIPELINE 16" TRANSMISSION MAIN**

SHEET TITLE:

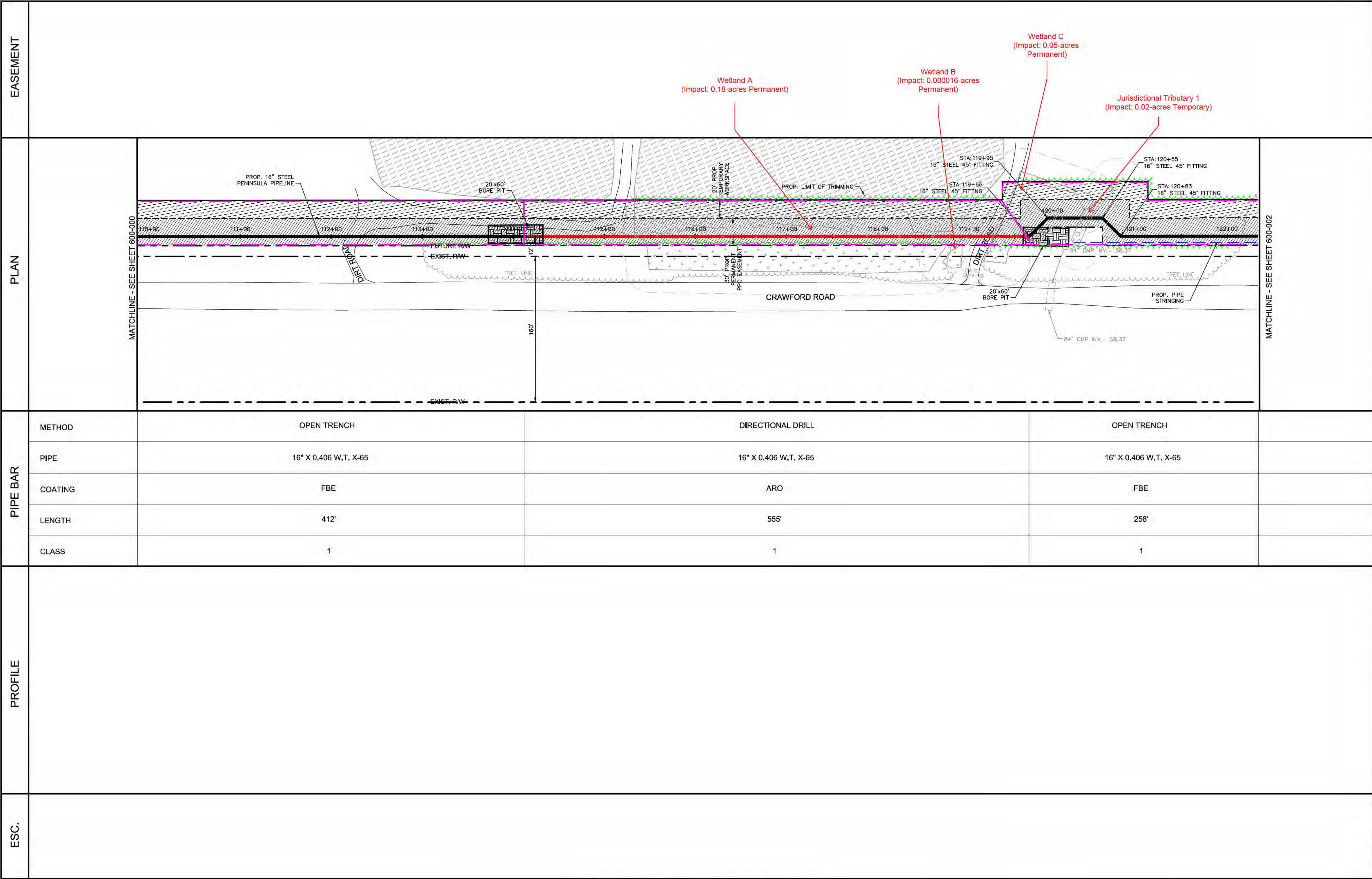
**KEY SHEET**

DATE: 4/23/2019	SCALE (H): AS SHOWN	SCALE (V): AS SHOWN	DRAWN BY: AK	DESIGNED BY: MA	CHECKED BY: RC	SEAL:
<b>90% PLANS</b>						
						KHA PROJECT NUMBER: <b>143797004</b>
						DRAWING NUMBER: <b>000-005</b>
						SHEET INDEX: <b>6 OF 142</b>









**LEGEND**

EASEMENT BOUNDARY  
RIGHT-OF-WAY  
EDGE OF PAVEMENT  
DRIVEWAY EDGE  
BUILDING  
EXISTING MAJOR CONTOURS  
FENCE LINE  
OVERHEAD POWER LINE  
SANITARY SEWER LINE  
STORM LINE  
SANITARY SEWER FORCE MAIN  
SUBSURFACE  
TELECOMMUNICATIONS  
WATER  
SUBSURFACE RECLAIMED  
SUBSURFACE GAS  
SUBSURFACE FIBER OPTIC  
CABLE  
SUBSURFACE UNKNOWN  
UTILITY  
EXIST. TREELINE  
ENVIRONMENTAL FEATURE  
BUFFER  
INSTALLATION CORRIDOR  
BOUNDARY

PROP. GAS LINE: OPEN  
TRENCH  
PROP. GAS LINE: BORE  
PROP. PIPE STRINGING  
PROP. LIMIT OF TRIMMING  
DRILL PIT  
CONSTRUCTION EASEMENT  
WETLAND  
STREAM  
DRAINAGE FEATURE  
PERMANENT UTILITY  
EASEMENT  
TEMPORARY WORK SPACE

POWER POLE  
& GUY WIRE  
TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**  
0 25 50 100

**CONTRACTOR IS RESPONSIBLE FOR  
FIELD VERIFYING EXACT LOCATIONS  
AND ELEVATIONS OF ALL EXISTING  
UTILITIES PRIOR TO CONSTRUCTION**

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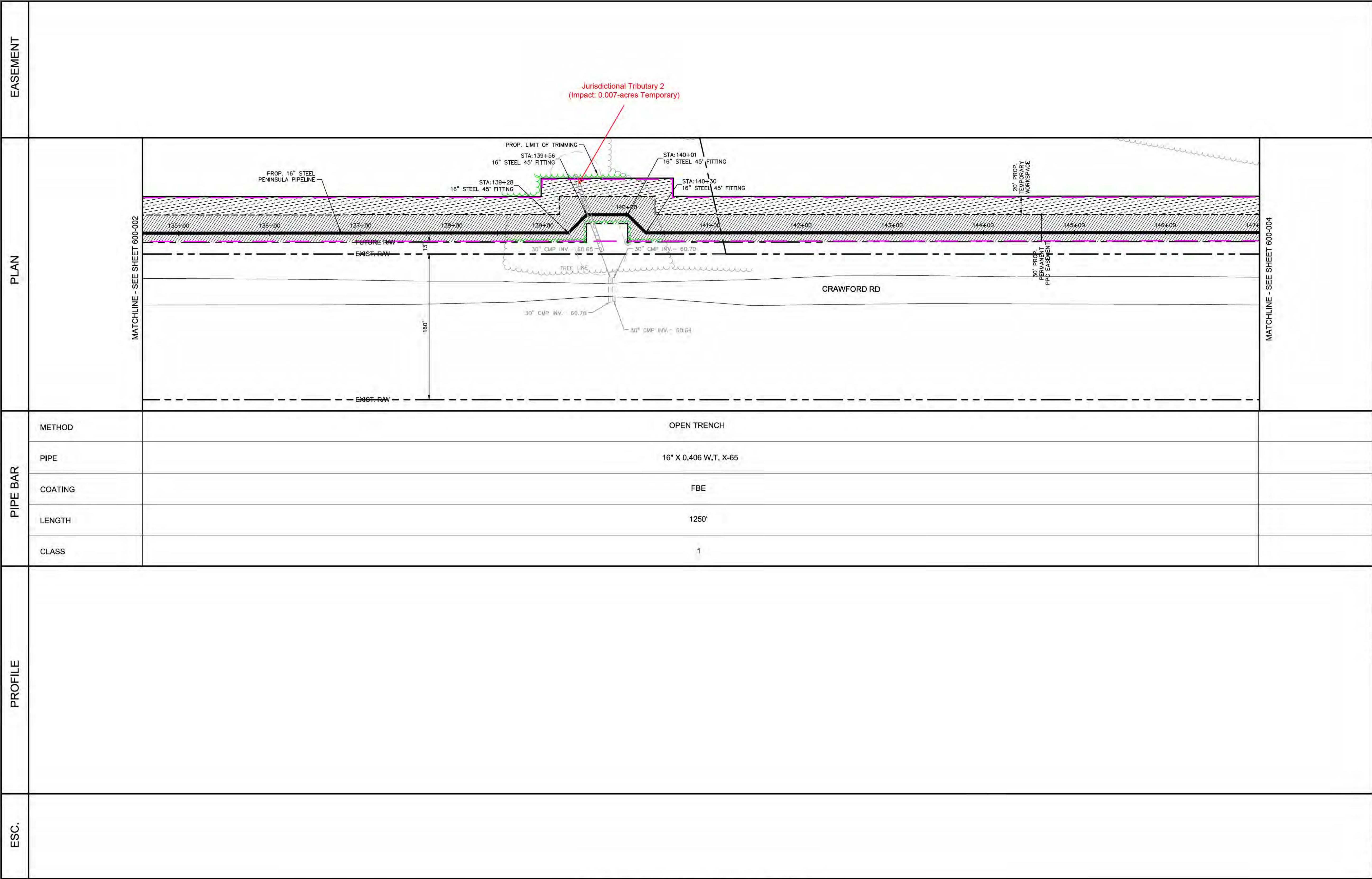
SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

REVISION:	DATE:	DRAWN BY:	CHECKED BY:	ENGINEER:	CLIENT:	PROJECT NAME:	DATE:	SCALE (H):	SCALE (V):	DRAWN BY:	DESIGNED BY:	CHECKED BY:	SEAL:	90% PLANS	KHA PROJECT NUMBER: 143797004
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															SHEET INDEX: 9 OF 142









**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

GRAPHIC SCALE IN FEET

0 25 50 100

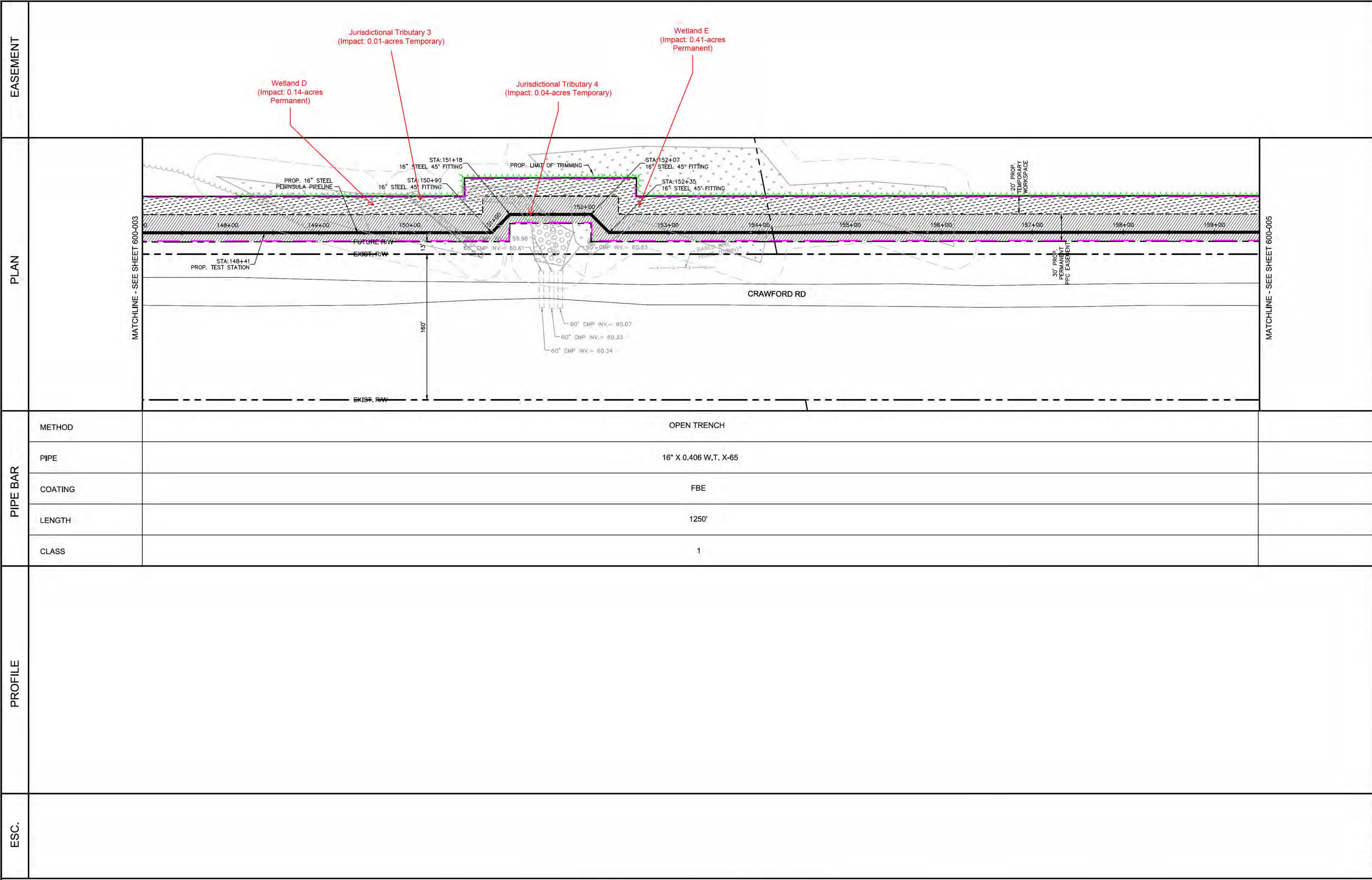
NORTH

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**LEGEND**

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- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

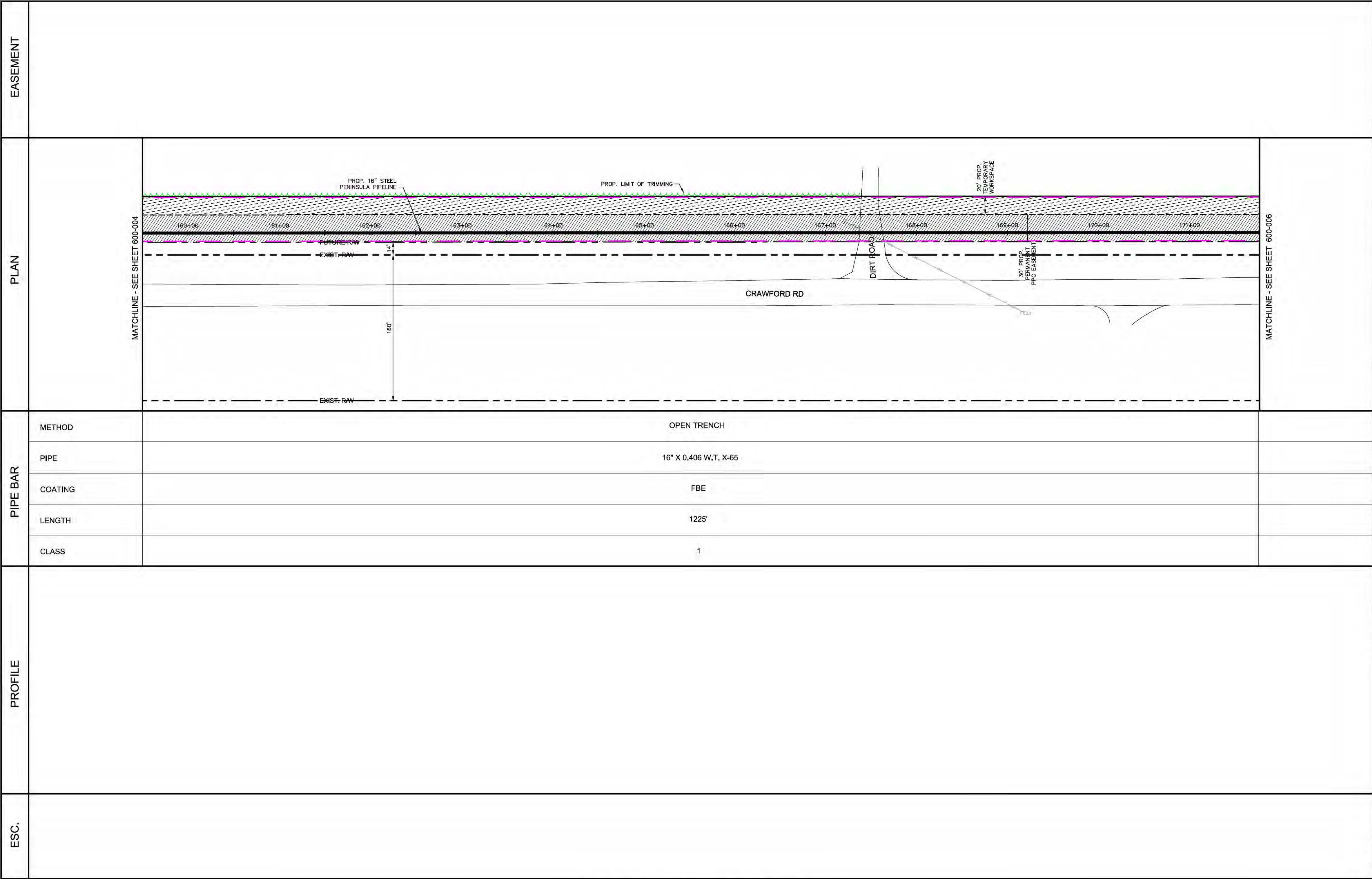
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL									
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				Kimley»Horn		PENINSULA PIPELINE		CALLAHAN PIPELINE 16" TRANSMISSION MAIN	
				189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685				SHEET TITLE:	
				© 2019 Kimley-Horn & Associates, Inc.				PLAN & PROFILE	
								DATE: 4/23/2019	
								SCALE (H): AS SHOWN	
								SCALE (V): AS SHOWN	
								DRAWN BY: AK	
								DESIGNED BY: MA	
								CHECKED BY: RC	
								SEAL:	
								90% PLANS	
								KHA PROJECT NUMBER: 143797004	
								DRAWING NUMBER: 600-004	
								SHEET INDEX: 12 OF 142	





**LEGEND**

- EASEMENT BOUNDARY
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- EDGE OF PAVEMENT
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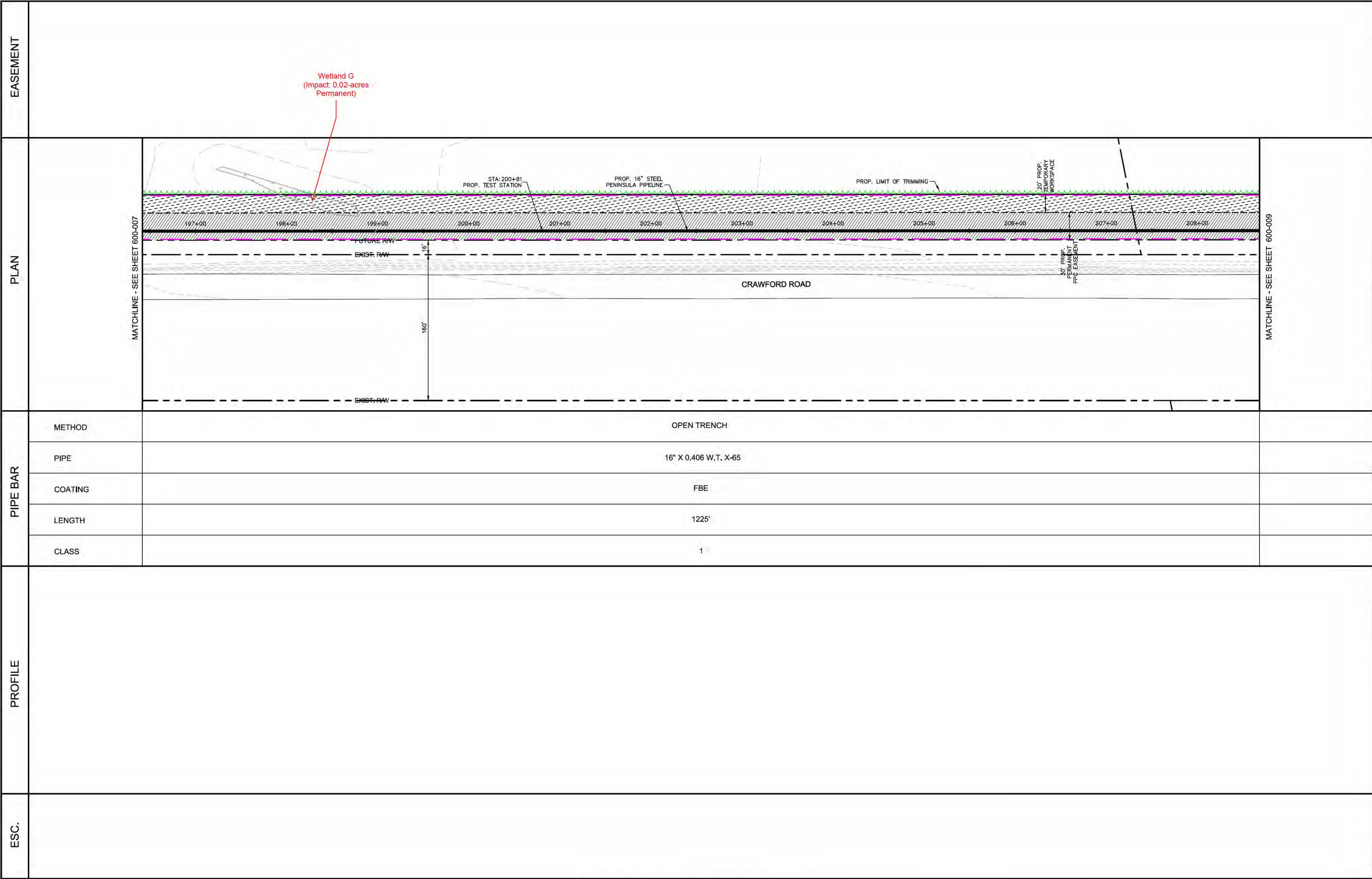












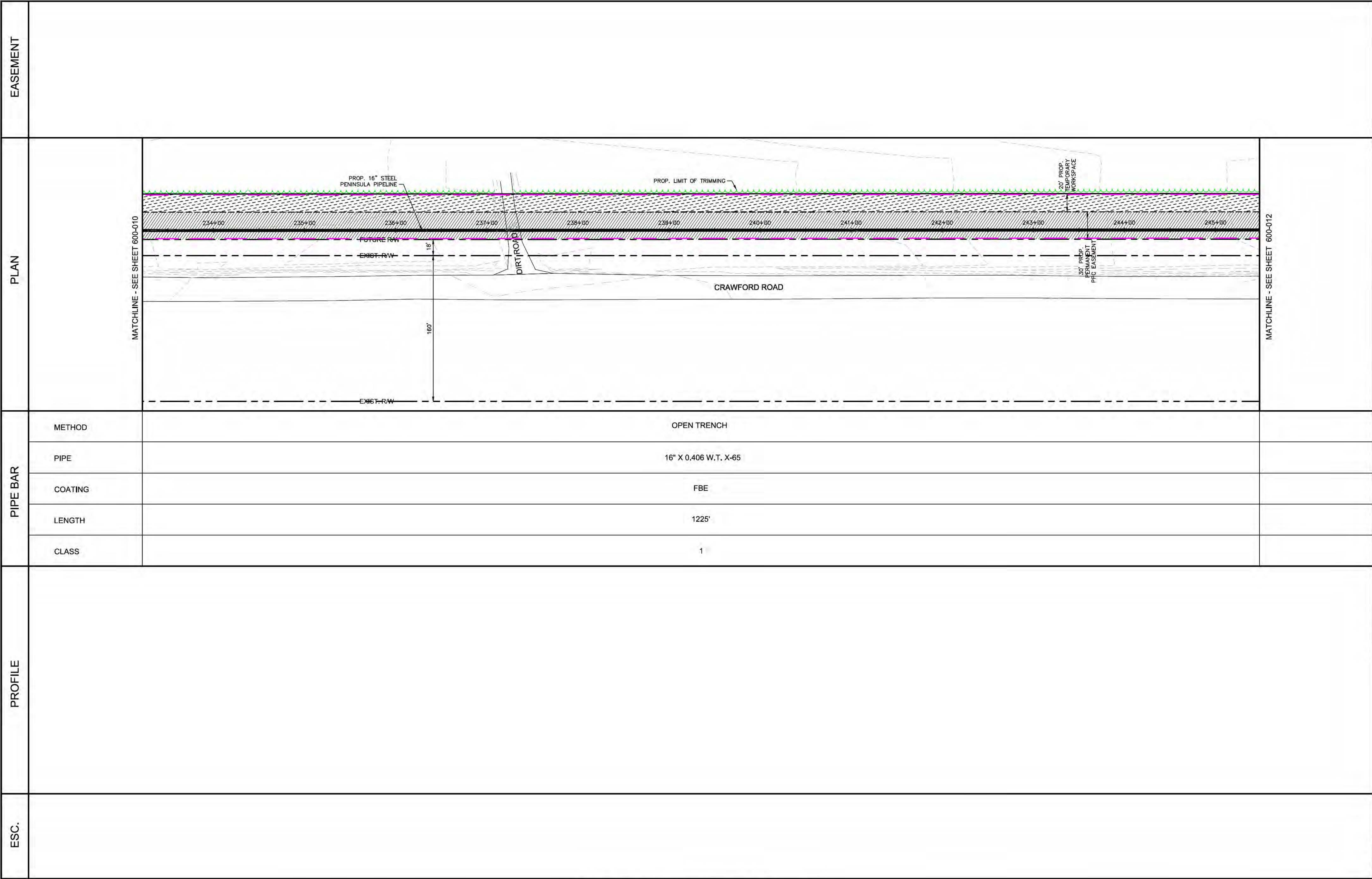












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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

ENGINEER:	<b>Kimley»Horn</b>	CLIENT:	<b>PENINSULA PIPELINE</b>	PROJECT NAME:	CALLAHAN PIPELINE 16" TRANSMISSION MAIN	DATE:	4/23/2019	SEAL:	
	189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685			SHEET TITLE:	PLAN & PROFILE		SCALE (H): AS SHOWN		
							SCALE (V): AS SHOWN		
							DRAWN BY: AK		
							DESIGNED BY: MA		
							CHECKED BY: RC		

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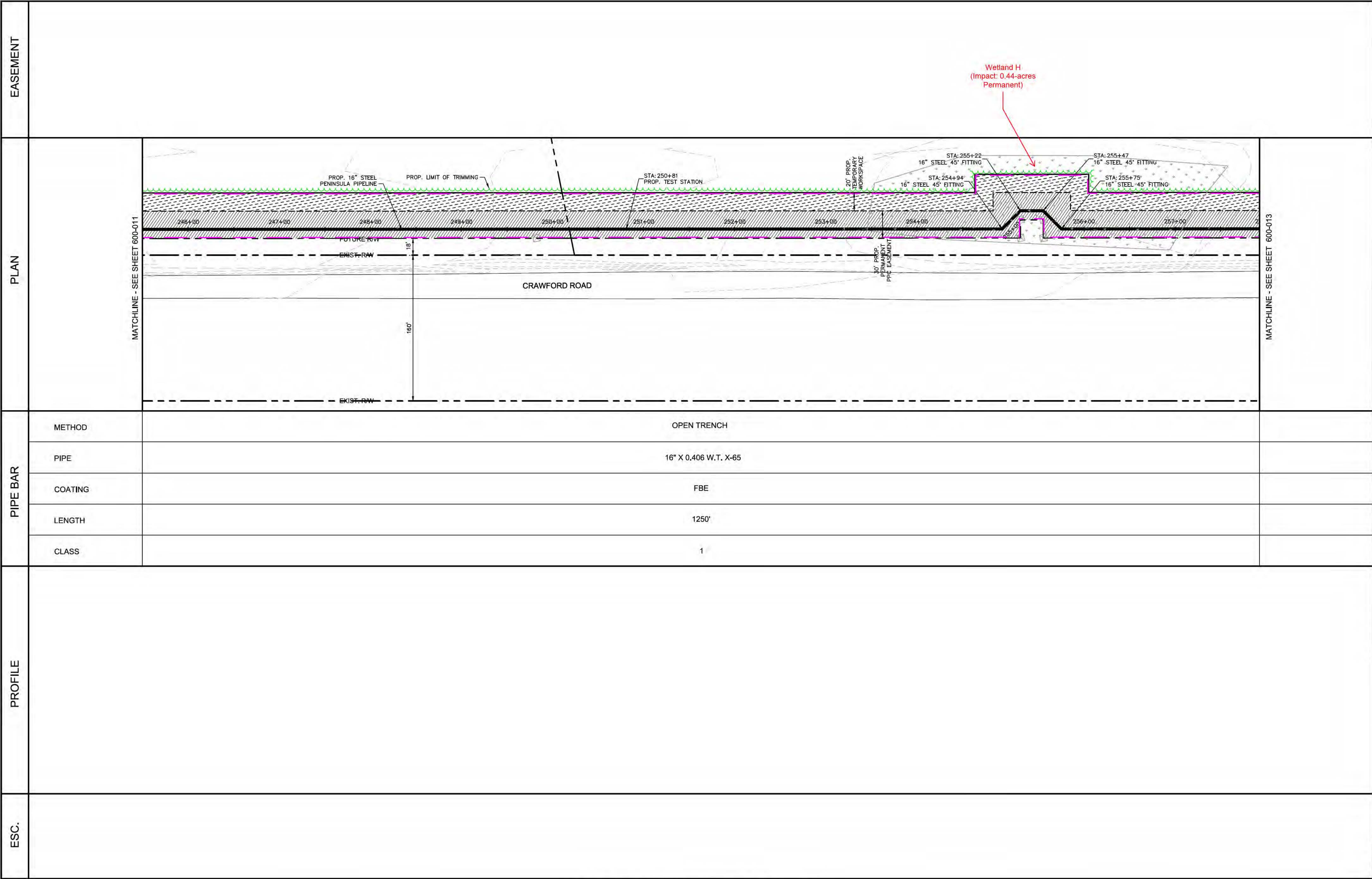
90% PLANS

KHA PROJECT NUMBER: 143797004

DRAWING NUMBER: 600-011

SHEET INDEX: 19 OF 142

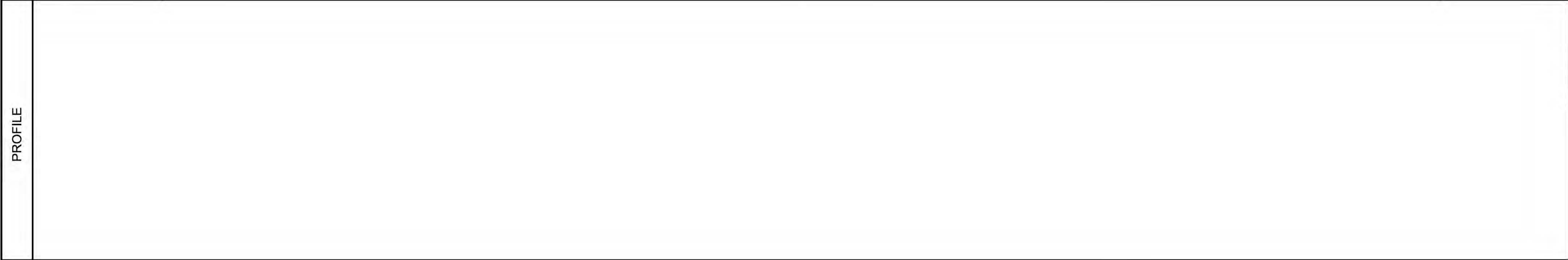




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- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

PIPE BAR	METHOD	OPEN TRENCH	
	PIPE	16" X 0.406 W.T. X-65	
	COATING	FBE	
	LENGTH	1250'	
	CLASS	1	



CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

ESC.	
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

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CLIENT:  
**PENINSULA PIPELINE**

PROJECT NAME:  
CALLAHAN PIPELINE 16" TRANSMISSION MAIN

SHEET TITLE:  
PLAN & PROFILE

DATE:  
4/23/2019  
SCALE (H):  
AS SHOWN  
SCALE (V):  
AS SHOWN  
DRAWN BY:  
AK  
DESIGNED BY:  
MA  
CHECKED BY:  
RC

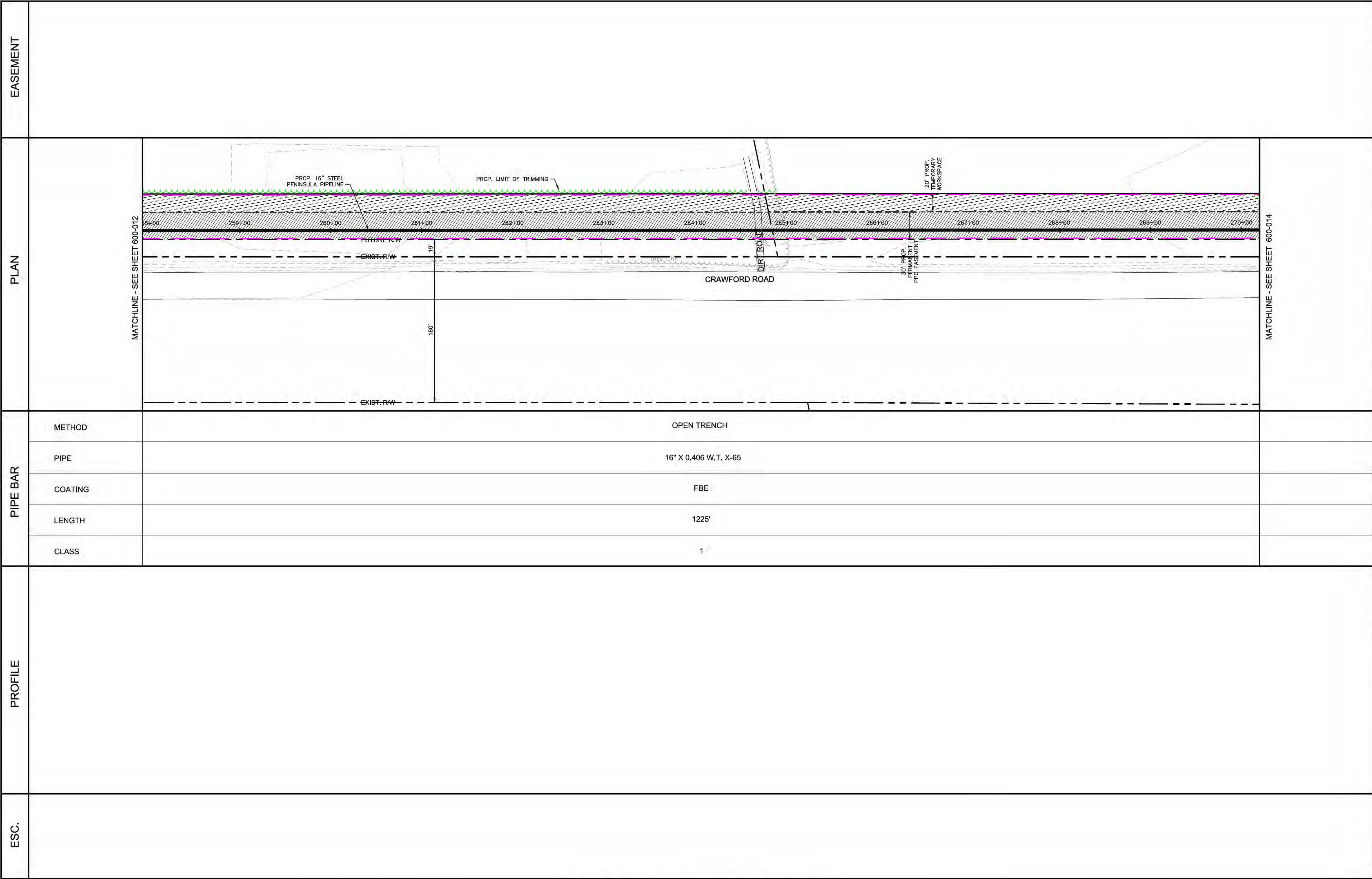
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**90% PLANS**

KHA PROJECT NUMBER:  
**143797004**

DRAWING NUMBER:  
**600-012**

SHEET INDEX:  
**20 OF 142**





**LEGEND**

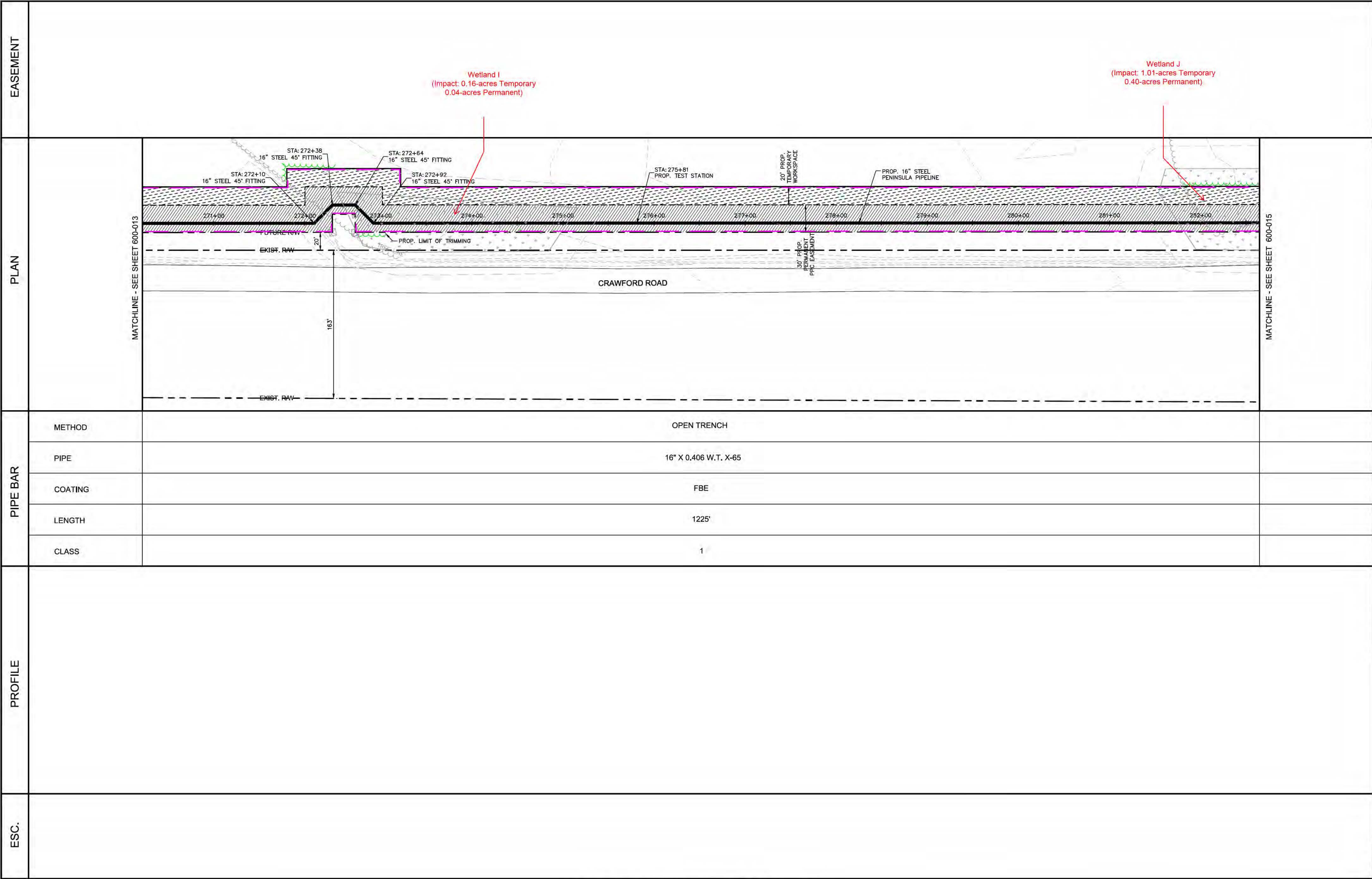
- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY
- BUILDING
- EXISTING MAJOR CONTOURS
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- PROP. LIMIT OF TRIMMING
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- TEST HOLE LOCATION

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### LEGEND

---	EASEMENT BOUNDARY
---	RIGHT-OF-WAY
---	EDGE OF PAVEMENT
---	DRIVEWAY EDGE
---	BUILDING
---	EXISTING MAJOR CONTOURS
---	FENCE LINE
---	OVERHEAD POWER LINE
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---	SUBSURFACE GAS
---	SUBSURFACE FIBER OPTIC CABLE
---	SUBSURFACE UNKNOWN UTILITY
---	EXIST. TREELINE
---	ENVIRONMENTAL FEATURE BUFFER
---	INSTALLATION CORRIDOR BOUNDARY
---	PROP. GAS LINE: OPEN TRENCH
---	PROP. GAS LINE: BORE
---	PROP. PIPE STRINGING
---	PROP. LIMIT OF TRIMMING
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---	CONSTRUCTION EASEMENT
---	WETLAND
---	STREAM
---	DRAINAGE FEATURE
---	PERMANENT UTILITY EASEMENT
---	TEMPORARY WORK SPACE
---	POWER POLE & GUY WIRE
---	TEST HOLE LOCATION

NORTH

GRAPHIC SCALE IN FEET

0 25 50 100

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

ENGINEER:	<b>Kimley»Horn</b>	CLIENT:	<b>PENINSULA PIPELINE</b>	PROJECT NAME:	CALLAHAN PIPELINE 16" TRANSMISSION MAIN	DATE:	4/23/2019	SEAL:	
	189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685			SHEET TITLE:	PLAN & PROFILE		SCALE (H): AS SHOWN		
							SCALE (V): AS SHOWN		
							DRAWN BY: AK		
							DESIGNED BY: MA		
							CHECKED BY: RC		

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90% PLANS	KHA PROJECT NUMBER: 143797004
	DRAWING NUMBER: 600-014
	SHEET INDEX: 22 OF 142





















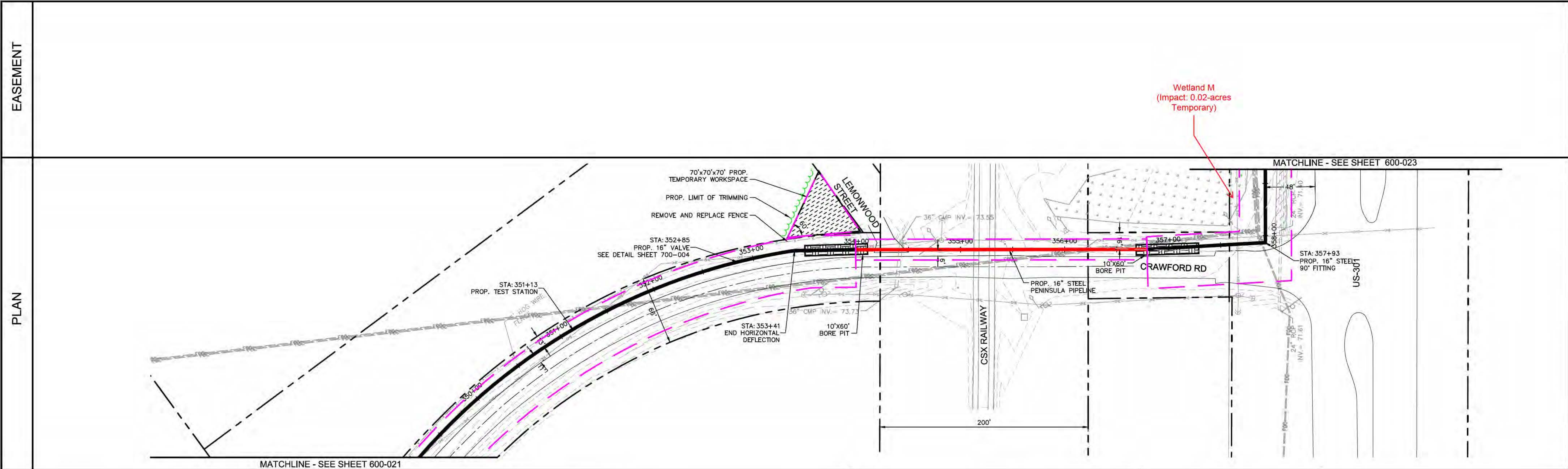












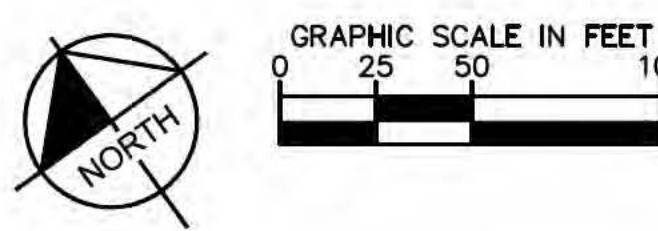
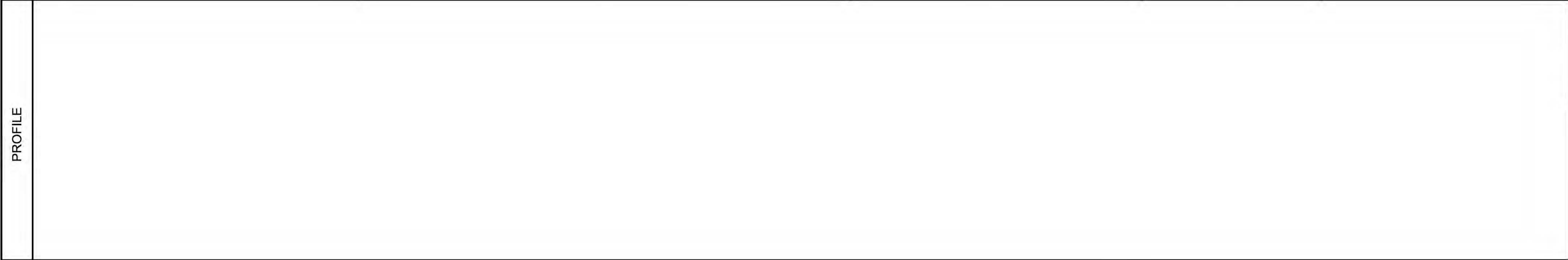
**LEGEND**

EASEMENT BOUNDARY  
RIGHT-OF-WAY  
EDGE OF PAVEMENT  
DRIVEWAY EDGE  
BUILDING  
EXISTING MAJOR CONTOURS  
FENCE LINE  
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SANITARY SEWER LINE  
STORM LINE  
SANITARY SEWER FORCE MAIN  
UGT  
SUBSURFACE TELECOMMUNICATIONS  
W  
SUBSURFACE WATER  
RW  
SUBSURFACE RECLAIMED WATER  
G  
SUBSURFACE GAS  
FDC  
SUBSURFACE FIBER OPTIC CABLE  
UNKNOWN  
UTILITY  
EXIST. TREELINE  
ENVIRONMENTAL FEATURE BUFFER  
INSTALLATION CORRIDOR BOUNDARY

PROP. GAS LINE: OPEN TRENCH  
PROP. GAS LINE: BORE  
PROP. PIPE STRINGING  
PROP. LIMIT OF TRIMMING  
DRILL PIT  
CONSTRUCTION EASEMENT  
WETLAND  
STREAM  
DRAINAGE FEATURE  
PERMANENT UTILITY EASEMENT  
TEMPORARY WORK SPACE

POWER POLE & GUY WIRE  
TEST HOLE LOCATION

PIPE BAR	METHOD	OPEN TRENCH	JACK & BORE	OPEN TRENCH	
	PIPE	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65	
	COATING	FBE	ARO	FBE	
	LENGTH	476'	278'	171'	
	CLASS	2	2	2	



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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

REVISION:	DATE:	DRAWN BY:	CHECKED BY:	ENGINEER:	CLIENT:	PROJECT NAME:	DATE:	SCALE (H):	SCALE (V):	DRAWN BY:	DESIGNED BY:	CHECKED BY:	SEAL:	90% PLANS	KHA PROJECT NUMBER:
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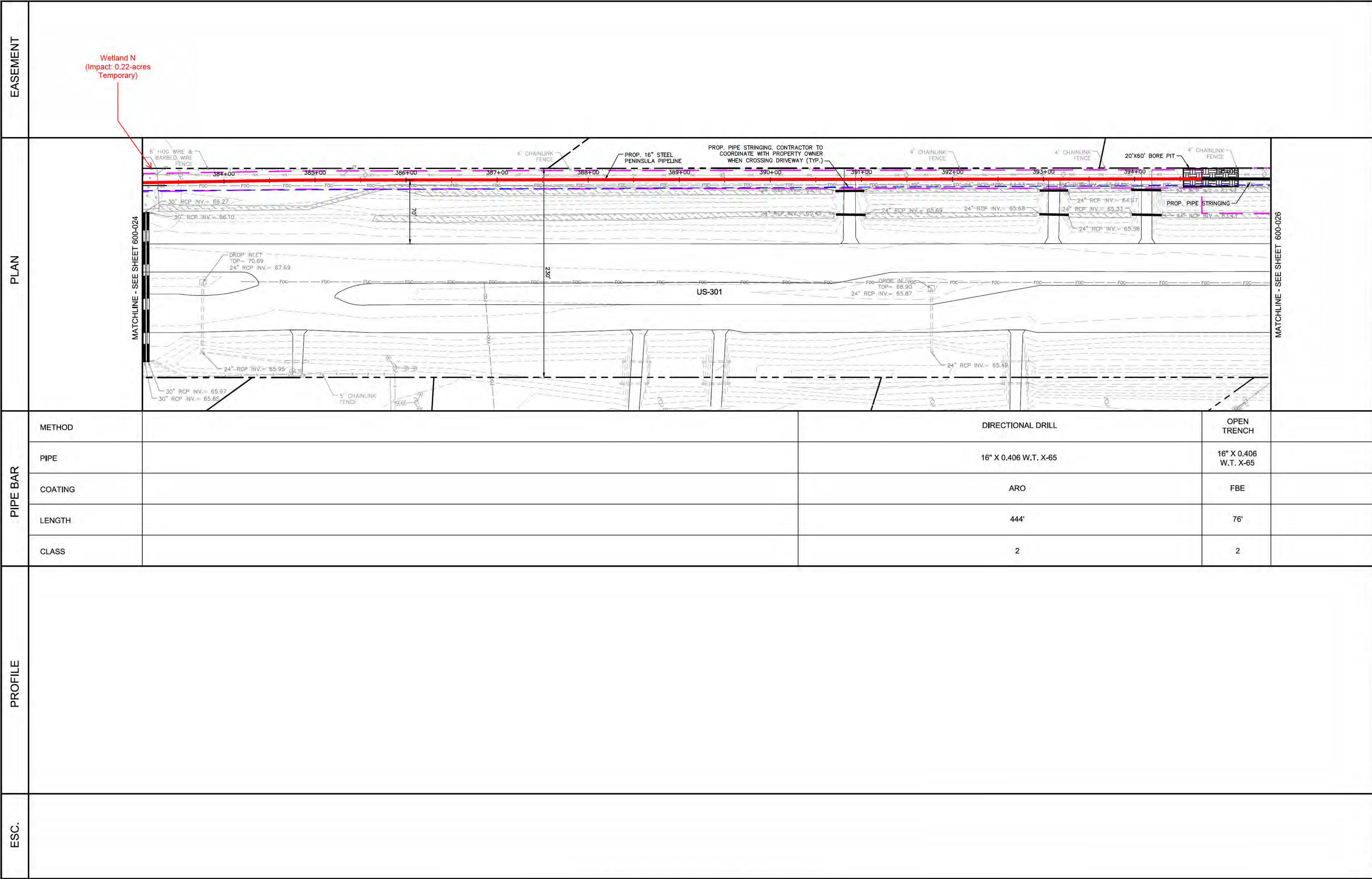












**LEGEND**

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--- STORM LINE  
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--- UGT  
--- SUBSURFACE TELECOMMUNICATIONS  
--- W- SUBSURFACE WATER  
--- RW- SUBSURFACE RECLAIMED WATER  
--- G- SUBSURFACE GAS  
--- FOC- SUBSURFACE FIBER OPTIC CABLE  
--- UNKNOWN SUBSURFACE UTILITY  
--- EXIST. TREELINE  
--- ENVIRONMENTAL FEATURE BUFFER  
--- INSTALLATION CORRIDOR BOUNDARY

--- PROP. GAS LINE: OPEN TRENCH  
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--- PROP. LIMIT OF TRIMMING  
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CONSTRUCTION EASEMENT

WETLAND

STREAM

DRAINAGE FEATURE

PERMANENT UTILITY EASEMENT

TEMPORARY WORK SPACE

POWER POLE & GUY WIRE

TEST HOLE LOCATION

PIPE BAR	METHOD	DIRECTIONAL DRILL	OPEN TRENCH	
	PIPE	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65	
	COATING	ARO	FBE	
	LENGTH	444'	76'	
	CLASS	2	2	

PROFILE

NORTH

GRAPHIC SCALE IN FEET  
0 25 50 100

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

REVISION:	DATE:	DRAWN BY:	CHECKED BY:	ENGINEER: <b>Kimley»Horn</b> 189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685 © 2019 Kimley-Horn & Associates, Inc.	CLIENT: <b>PENINSULA PIPELINE</b>	PROJECT NAME: <b>CALLAHAN PIPELINE 16" TRANSMISSION MAIN</b>	SHEET TITLE: <b>PLAN &amp; PROFILE</b>	DATE: 4/22/2019 SCALE (H): AS SHOWN SCALE (V): AS SHOWN DRAWN BY: AK DESIGNED BY: MA CHECKED BY: RC	SEAL: <b>90% PLANS</b>	KHA PROJECT NUMBER: <b>143797004</b> DRAWING NUMBER: <b>600-025</b> SHEET INDEX: <b>33 OF 142</b>
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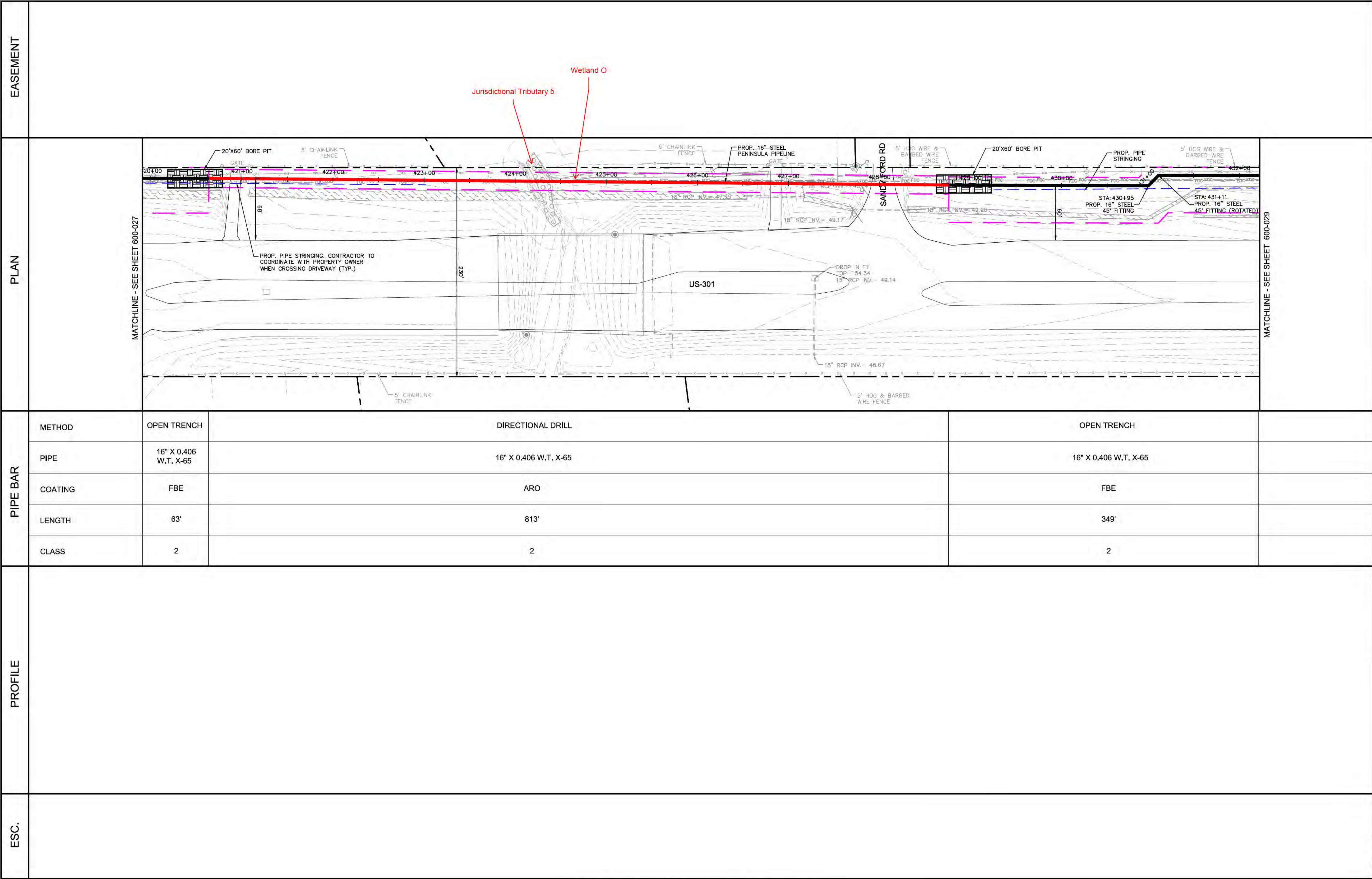












**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION


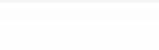
**GRAPHIC SCALE IN FEET**

0 25 50 100

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL										SunshineFL.com 															
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								SHEET TITLE: PLAN & PROFILE				SCALE (H): AS SHOWN		SCALE (V): AS SHOWN		DRAWING NUMBER: 600-028									
														DRAWN BY: AK				SHEET INDEX: 36 OF 142							
														DESIGNED BY: MA											
														CHECKED BY: RC											













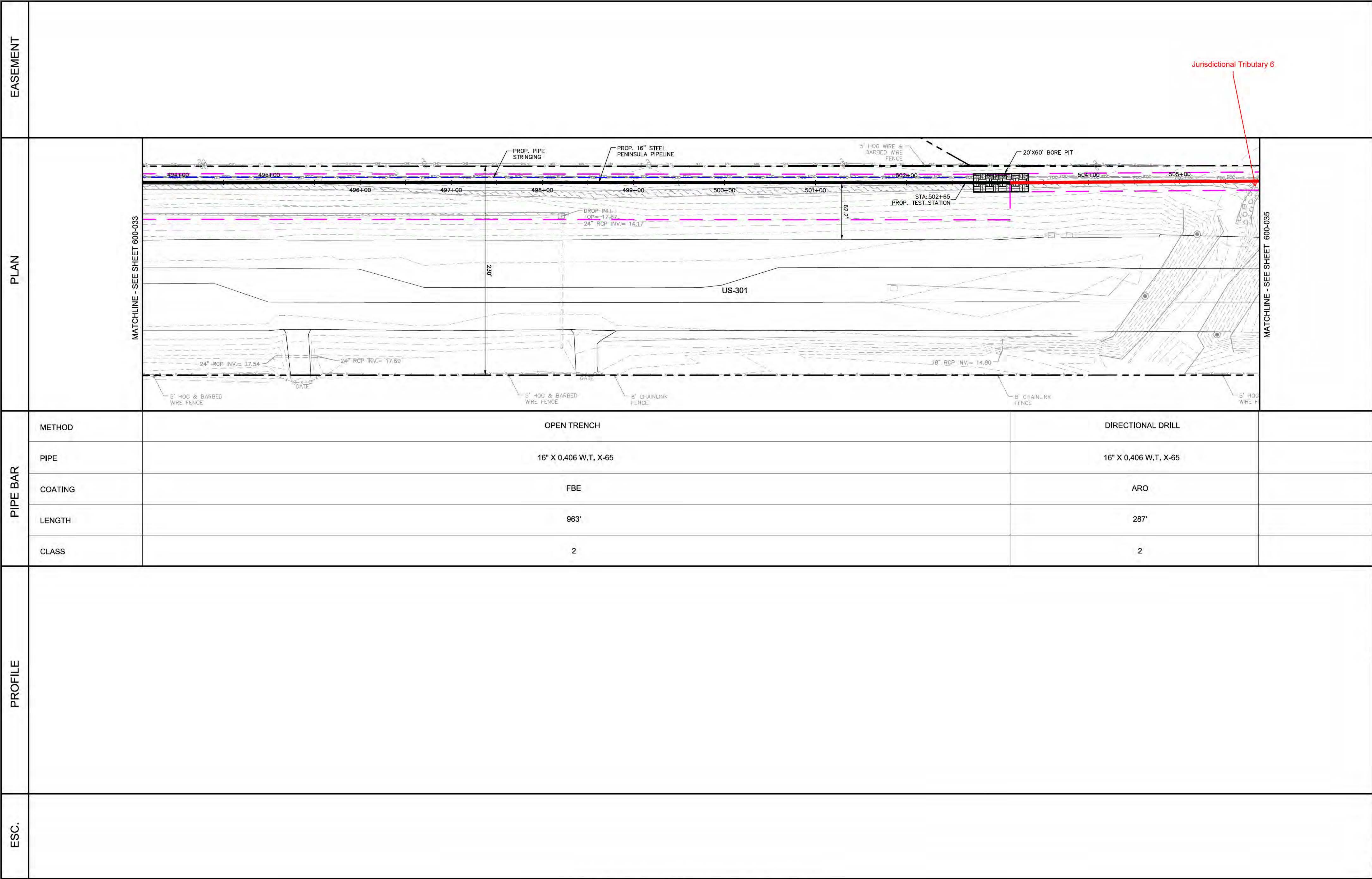












**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
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- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
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- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
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- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

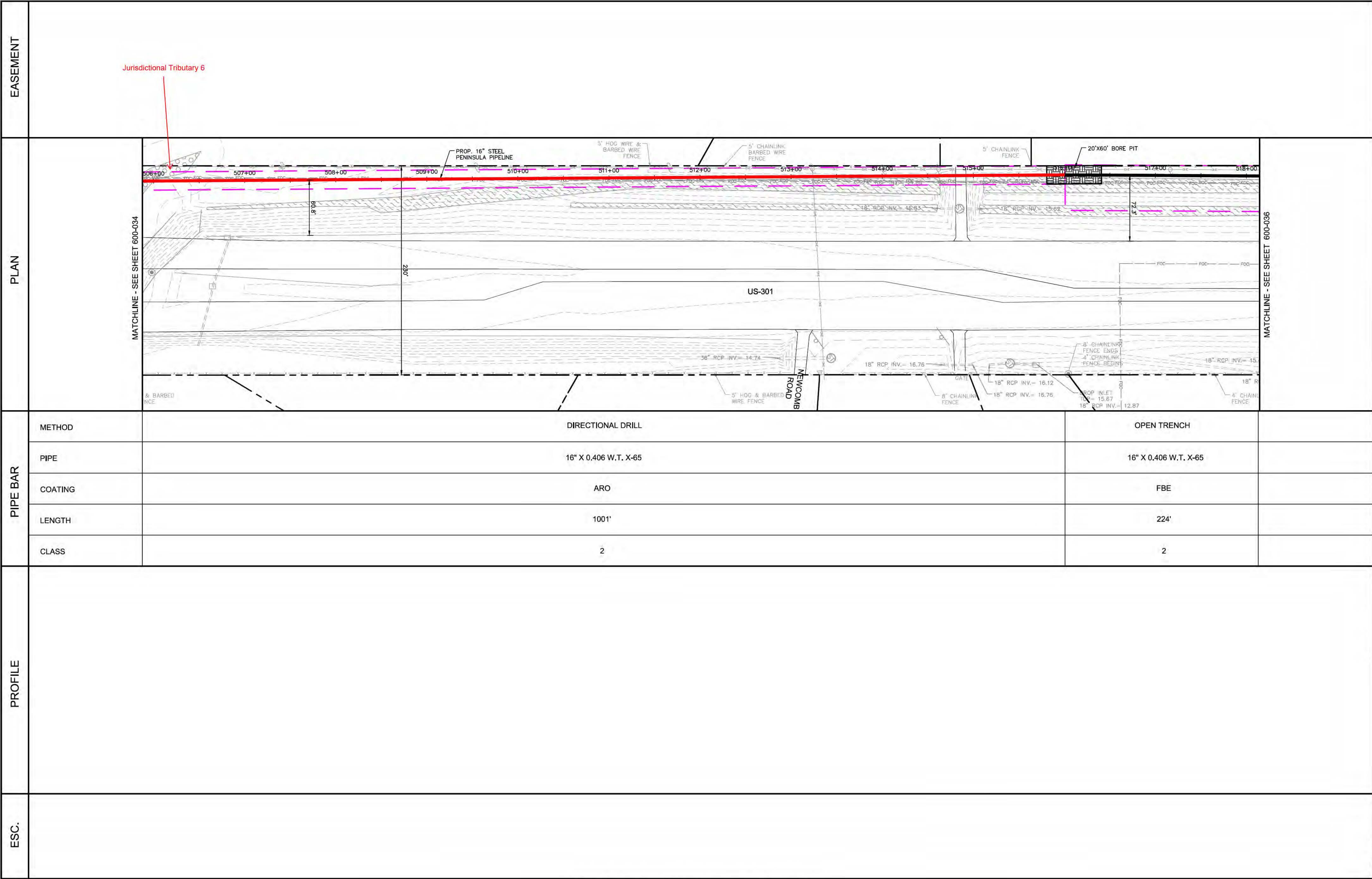
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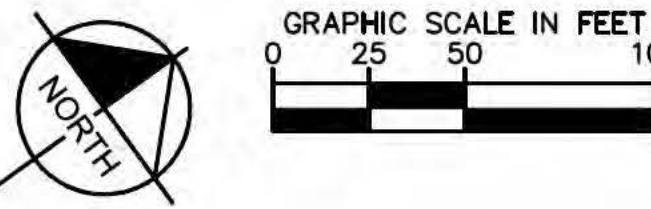


LEGEND

EASEMENT BOUNDARY  
RIGHT-OF-WAY  
EDGE OF PAVEMENT  
DRIVEWAY EDGE  
BUILDING  
EXISTING MAJOR CONTOURS  
FENCE LINE  
OVERHEAD POWER LINE  
SANITARY SEWER LINE  
STORM LINE  
SANITARY SEWER FORCE MAIN  
UGT  
SUBSURFACE TELECOMMUNICATIONS  
SUBSURFACE WATER  
SUBSURFACE RECLAIMED WATER  
SUBSURFACE GAS  
SUBSURFACE FIBER OPTIC CABLE  
SUBSURFACE UNKNOWN UTILITY  
EXIST. TREELINE  
ENVIRONMENTAL FEATURE BUFFER  
INSTALLATION CORRIDOR BOUNDARY

PROP. GAS LINE: OPEN TRENCH  
PROP. GAS LINE: BORE  
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PROP. LIMIT OF TRIMMING  
DRILL PIT  
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STREAM  
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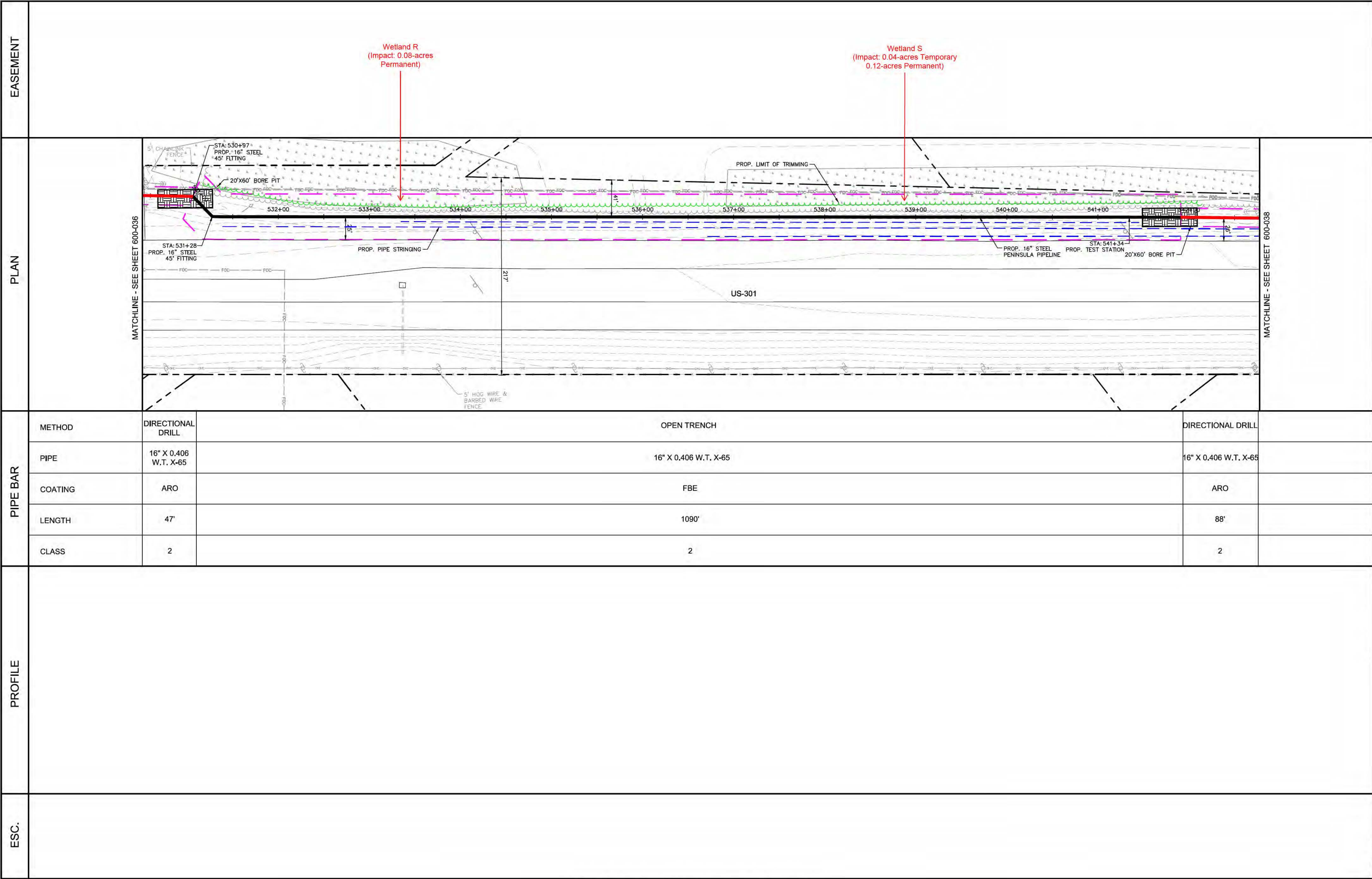
SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

						ENGINEER:		<div>Kimley»Horn</div> <div>189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685</div> <div>© 2019 Kimley-Horn &amp; Associates, Inc.</div>		CLIENT:		<div>PENINSULA PIPELINE</div>		PROJECT NAME:		DATE: 4/22/2019		SEAL:		KHA PROJECT NUMBER: 143797004	
												CALLAHAN PIPELINE 16" TRANSMISSION MAIN		SCALE (H): AS SHOWN		90%		DRAWING NUMBER: 600-035			
														SCALE (V): AS SHOWN		100%		SHEET INDEX: 43 OF 142			
REVISION:				DATE:		DRAWN BY:		CHECKED BY:				SHEET TITLE:		DRAWN BY: AK		DESIGNED BY: MA					
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GRAPHIC SCALE IN FEET

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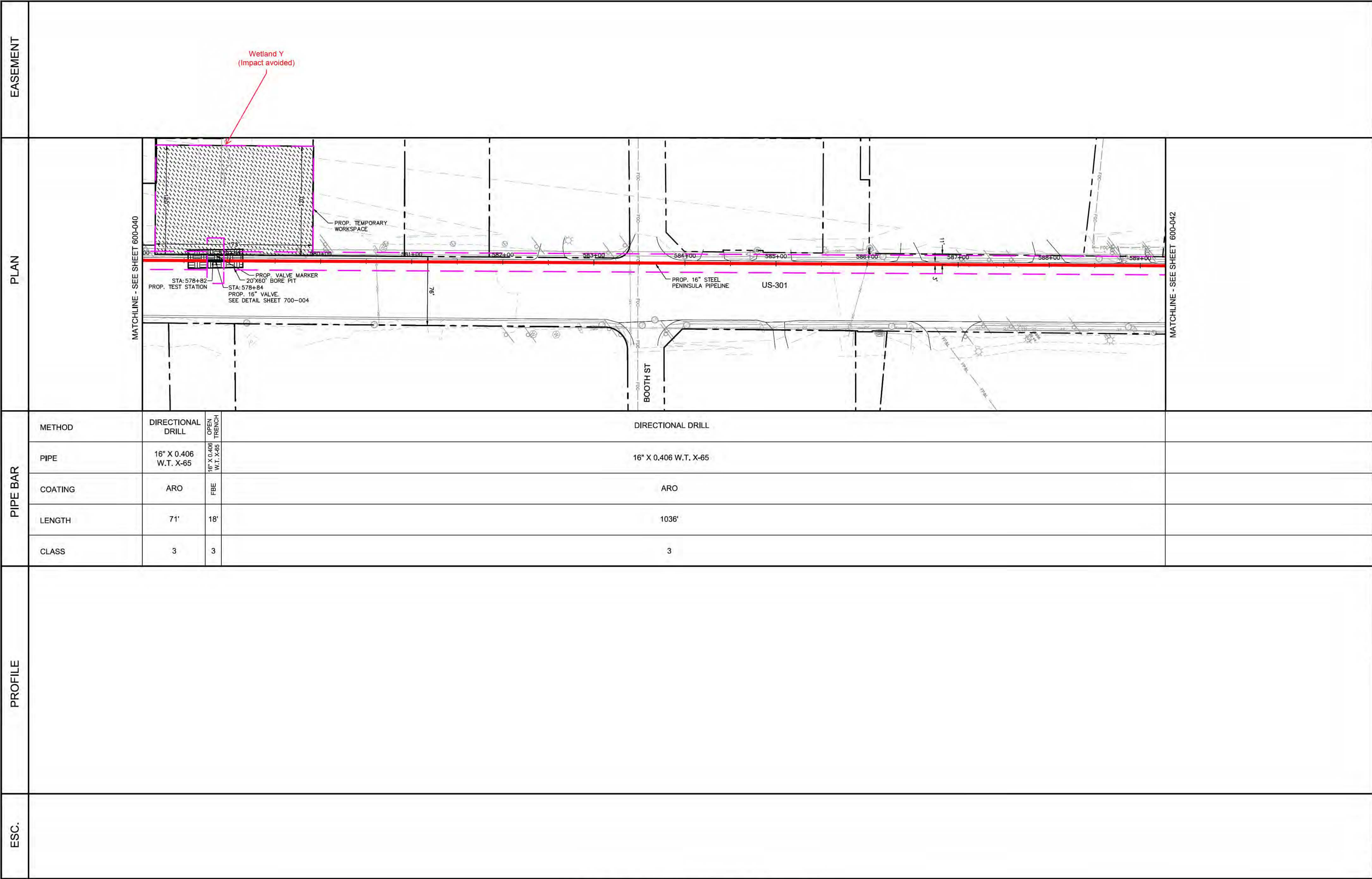












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GRAPHIC SCALE IN FEET

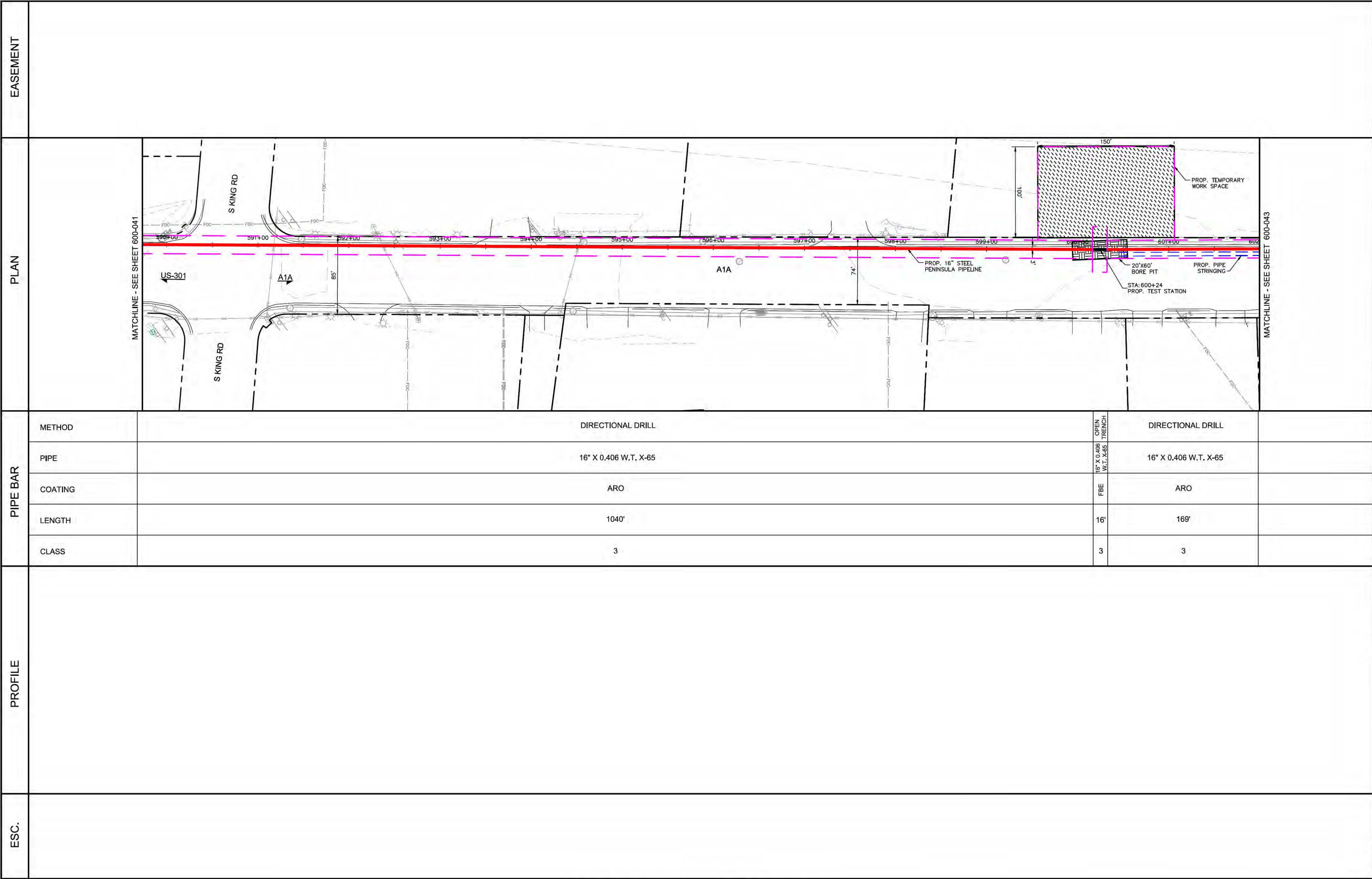
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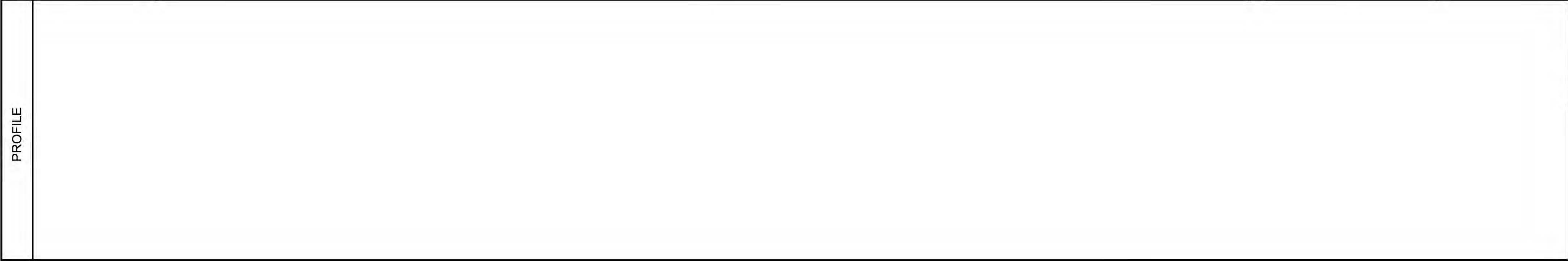




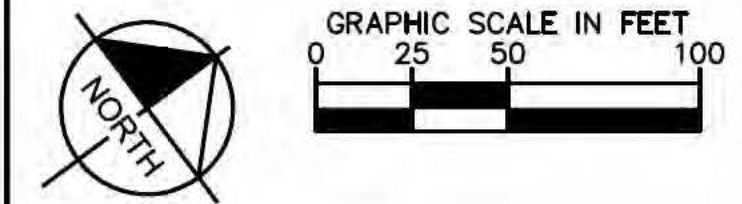
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PIPE BAR	METHOD	DIRECTIONAL DRILL			OPEN TRENCH	DIRECTIONAL DRILL		
	PIPE	16" X 0.406 W.T. X-65			16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65		
	COATING	ARO			FBE	ARO		
	LENGTH	1040'			16'	169'		
	CLASS	3			3	3		



ESC.	
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ENGINEER:  
**Kimley»Horn**  
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CLIENT:  
**PENINSULA PIPELINE**

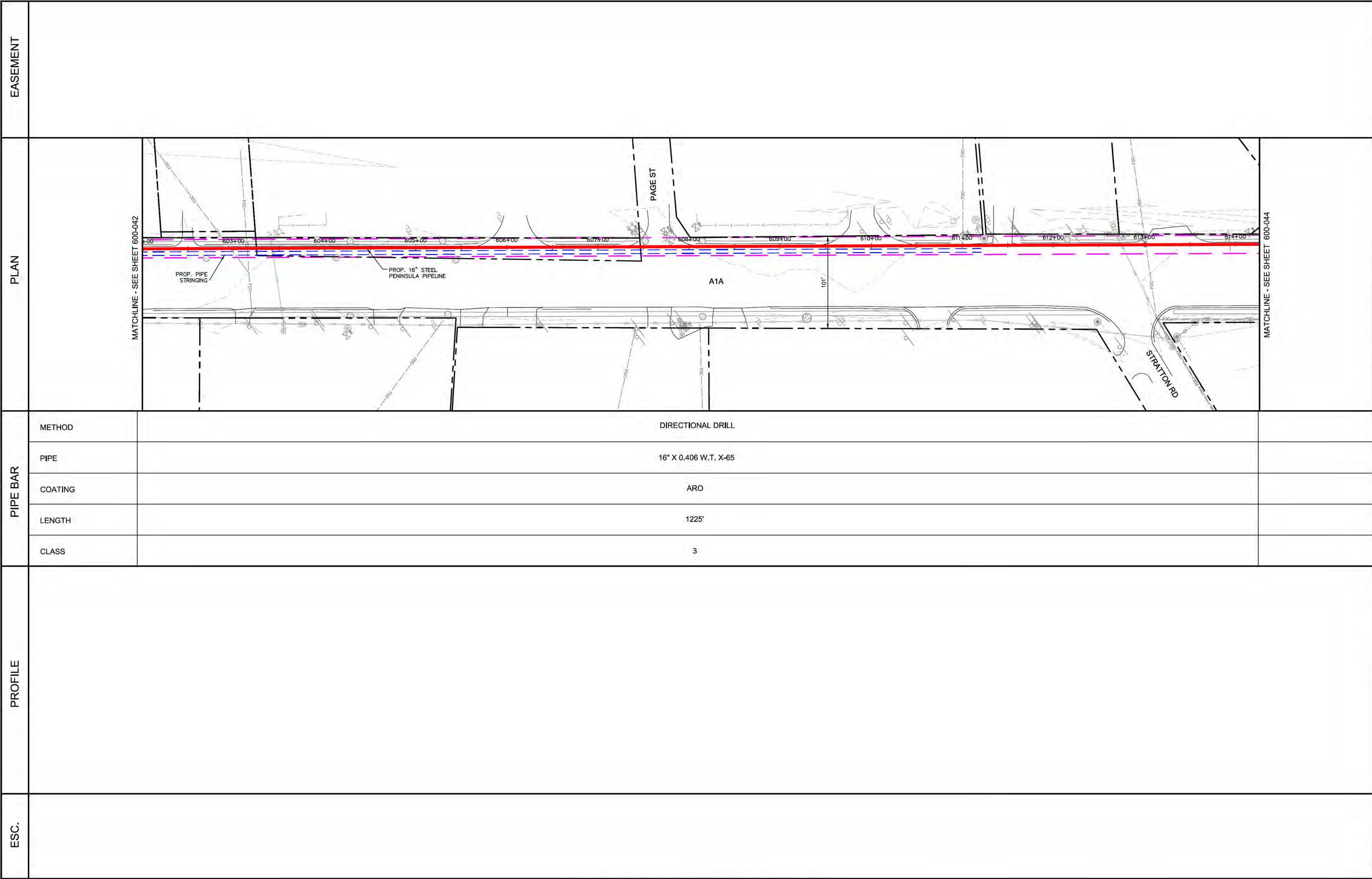
PROJECT NAME:  
CALLAHAN PIPELINE 16" TRANSMISSION MAIN  
SHEET TITLE:  
**PLAN & PROFILE**

DATE: 4/23/2019	SCALE (H): AS SHOWN	SCALE (V): AS SHOWN	DRAWN BY: AK	DESIGNED BY: MA	CHECKED BY: RC
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90%  
**PLANS**

KHA PROJECT NUMBER: <b>143797004</b>
DRAWING NUMBER: <b>600-042</b>
SHEET INDEX: <b>50 OF 142</b>






**LEGEND**

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- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
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- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- W- WATER
- R- RECLAIMED
- G- GAS
- F- FIBER OPTIC
- C- CABLE
- U- UNKNOWN
- UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE
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- INSTALLATION CORRIDOR BOUNDARY
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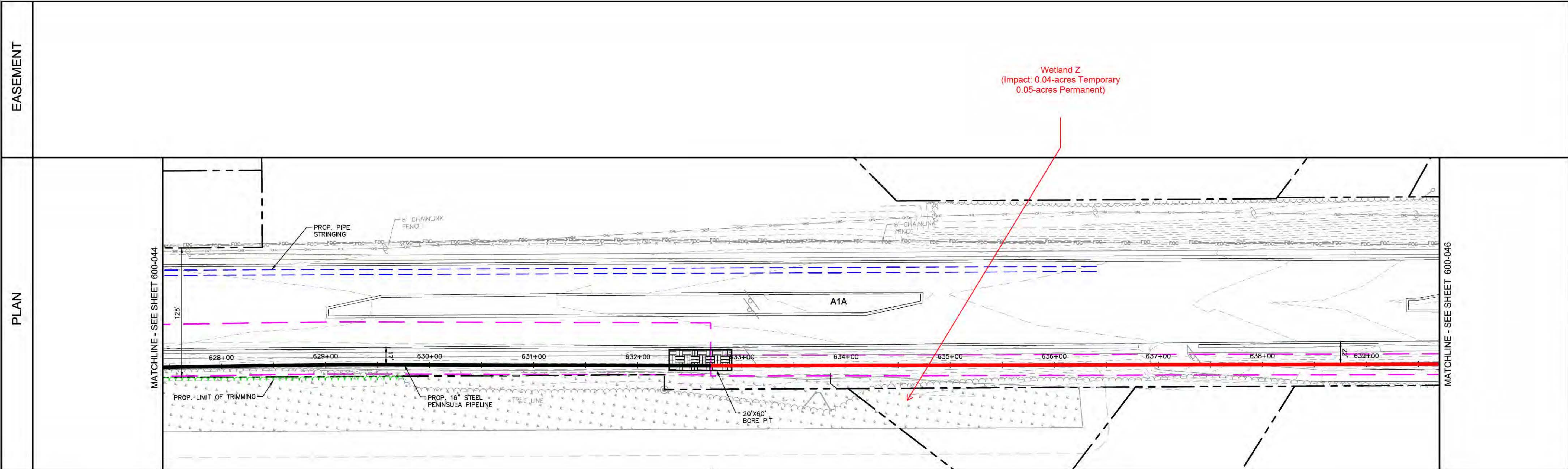
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL										SunshineFL.com 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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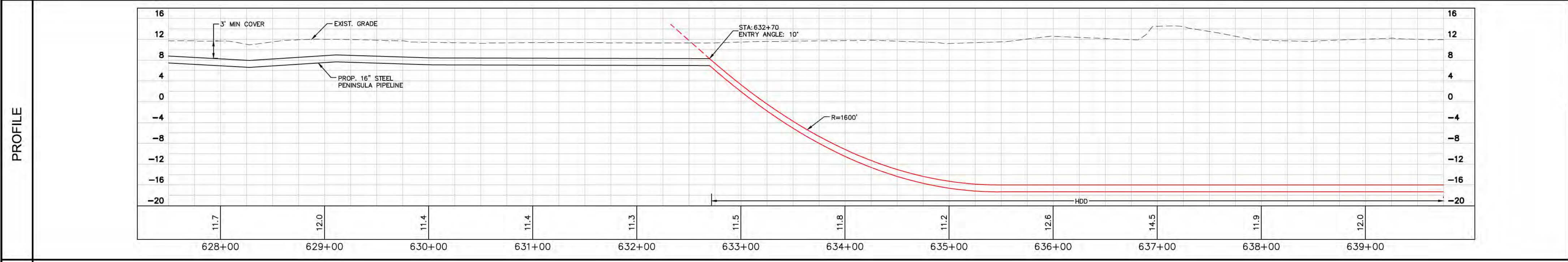


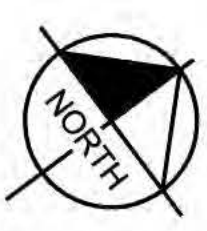


**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

PIPE BAR	METHOD	OPEN TRENCH	DIRECTIONAL DRILL
	PIPE	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65
	COATING	FBE	ARO
	LENGTH	522'	703'
	CLASS	3	3



 **GRAPHIC SCALE IN FEET**  
0 25 50 100

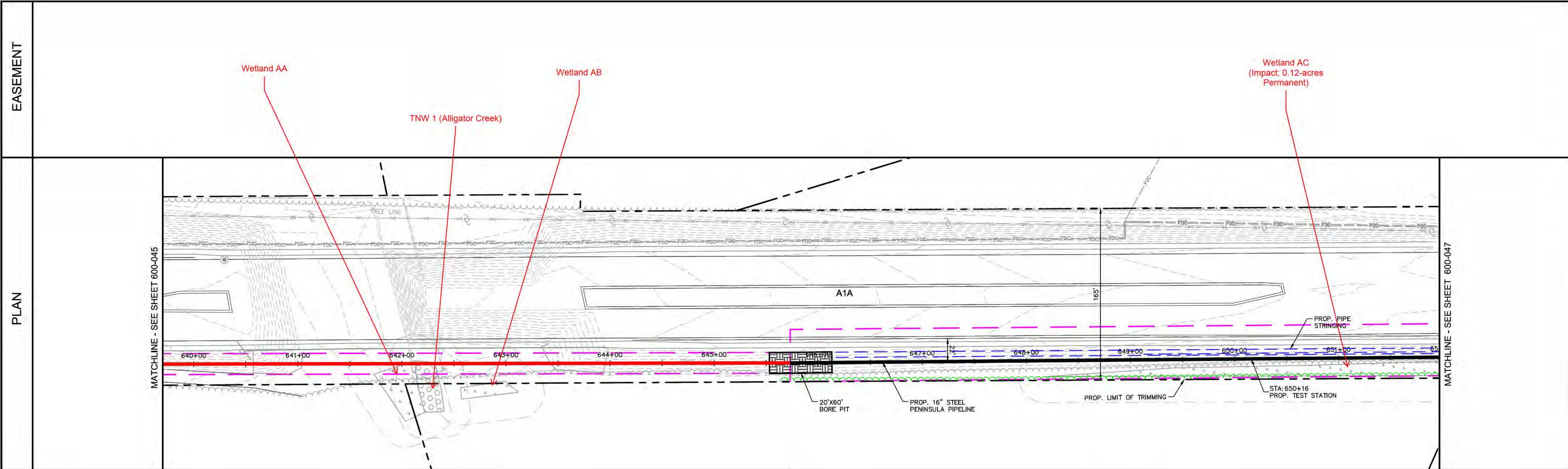
CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

ESC.

SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

<div>REVISION:</div> <div>This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adoption by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. [Copyright Kimley-Horn and Associates, Inc., 2019]</div>				<div>ENGINEER:</div> <div><b>Kimley»Horn</b></div> <div>189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685</div> <div>© 2019 Kimley-Horn &amp; Associates, Inc.</div>		<div>CLIENT:</div> <div><b>PENINSULA PIPELINE</b></div>	<div>PROJECT NAME:</div> <div>CALLAHAN PIPELINE 16" TRANSMISSION MAIN</div> <div>SHEET TITLE:</div> <div>PLAN &amp; PROFILE</div>	<div>DATE:</div> <div>4/22/2019</div> <div>SCALE (H):</div> <div>AS SHOWN</div> <div>SCALE (V):</div> <div>AS SHOWN</div> <div>DRAWN BY:</div> <div>AK</div> <div>DESIGNED BY:</div> <div>MA</div> <div>CHECKED BY:</div> <div>RC</div>	<div>SEAL:</div> <div>90% PLANS</div>	<div>KHA PROJECT NUMBER:</div> <div>143797004</div> <div>DRAWING NUMBER:</div> <div>600-045</div> <div>SHEET INDEX:</div> <div>53 OF 142</div>
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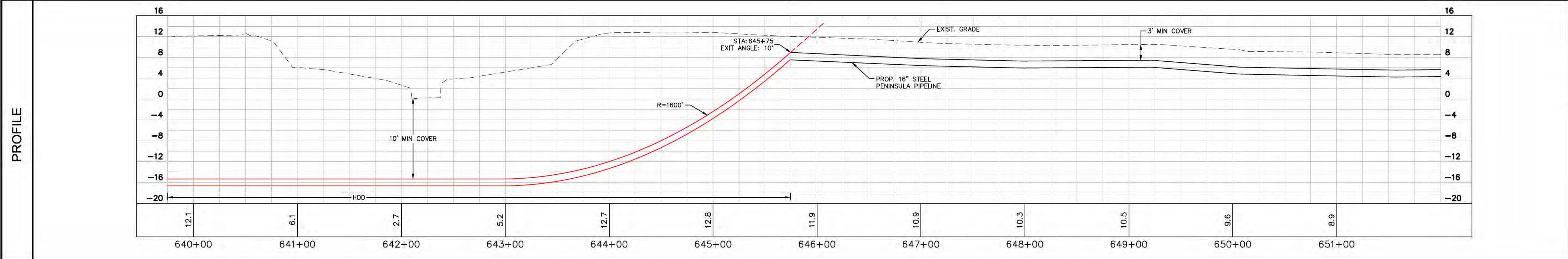


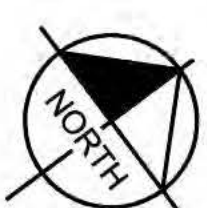


**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- UGT
- W
- RW
- G
- FOC
- C
- UK
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

PIPE BAR	METHOD	DIRECTIONAL DRILL	OPEN TRENCH
	PIPE	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65
	COATING	ARO	FBE
	LENGTH	600'	625'
	CLASS	3	3



 GRAPHIC SCALE IN FEET  
0 25 50 100

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

ESC.	
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

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ENGINEER:

**Kimley»Horn**

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SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

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CLIENT:

**PENINSULA PIPELINE**

PROJECT NAME:

CALLAHAN PIPELINE 16" TRANSMISSION MAIN

SHEET TITLE:

PLAN & PROFILE

DATE: 4/22/2019  
SCALE (H): AS SHOWN  
SCALE (V): AS SHOWN  
DRAWN BY: AK  
DESIGNED BY: MA  
CHECKED BY: RC

SEAL:

90%  
**PLANS**

KHA PROJECT NUMBER:  
**143797004**

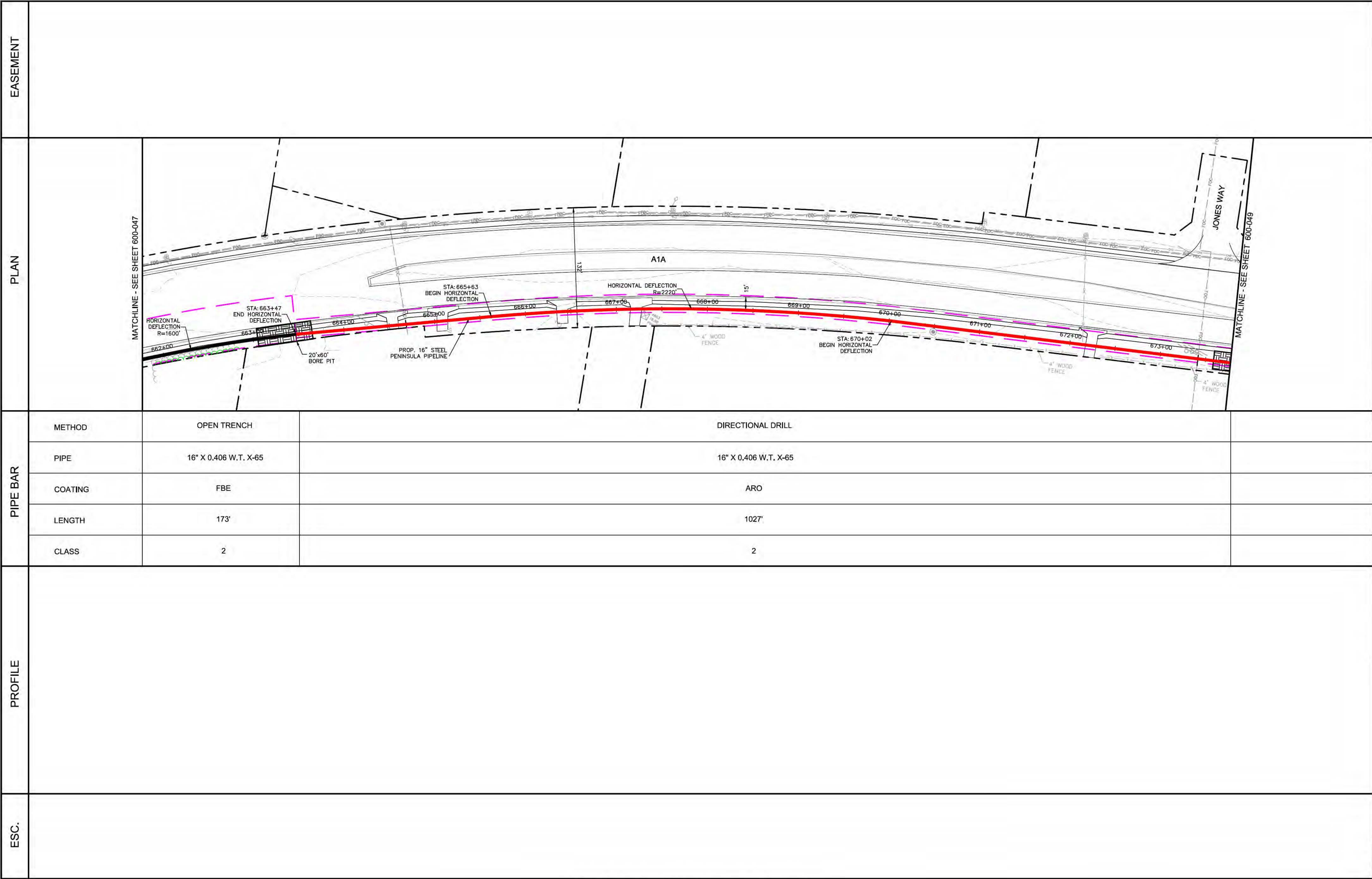
DRAWING NUMBER:  
**600-046**

SHEET INDEX:  
**54 OF 142**









**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- UGT
- W
- RW
- G
- FDC
- UK
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

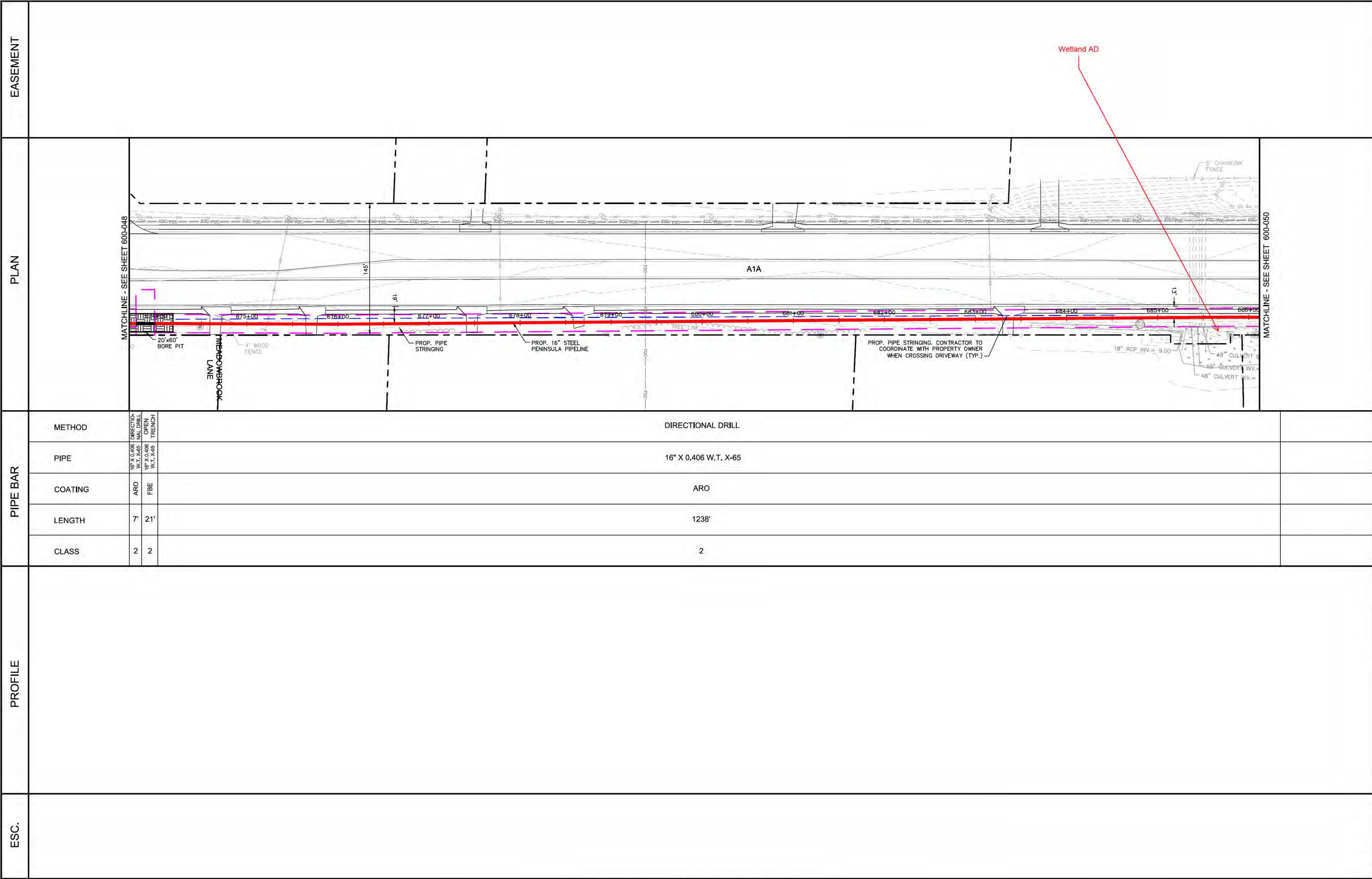
**CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION**

Always call 811 two full business days before you dig

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL									
REVISION:				DATE:		DRAWN BY:		CHECKED BY:	
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				Kimley»Horn		PENINSULA PIPELINE		CALLAHAN PIPELINE 16" TRANSMISSION MAIN	
				189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685				SHEET TITLE:	
				© 2019 Kimley-Horn & Associates, Inc.				PLAN & PROFILE	
								DATE: 4/22/2019	
								SCALE (H): AS SHOWN	
								SCALE (V): AS SHOWN	
								DRAWN BY: AK	
								DESIGNED BY: MA	
								CHECKED BY: RC	
								SEAL:	
								90% PLANS	
								KHA PROJECT NUMBER: 143797004	
								DRAWING NUMBER: 600-048	
								SHEET INDEX: 56 OF 142	





**LEGEND**

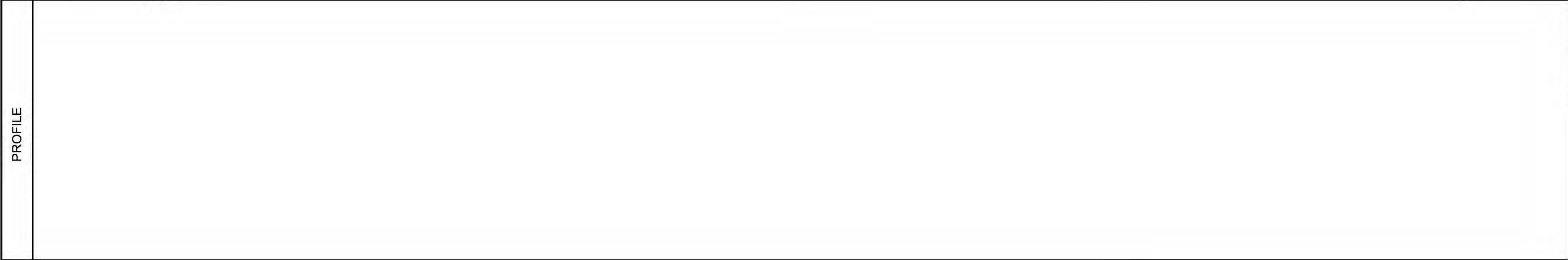
- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- W- WATER
- R- RECLAIMED WATER
- G- GAS
- F- FIBER OPTIC
- UNKNOWN
- UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

PIPE BAR	METHOD	DIRECTIONAL DRILL	
	PIPE	16" X 0.406 W.T. X-65	
	COATING	ARO	
	LENGTH	1238'	
	CLASS	2	



ESC.	
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

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SHEET TITLE:

PLAN & PROFILE

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4/22/2019

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AS SHOWN

SCALE (V):

AS SHOWN

DRAWN BY:

AK

DESIGNED BY:

MA

CHECKED BY:

RC

SEAL:

90% PLANS

KHA PROJECT NUMBER:

143797004

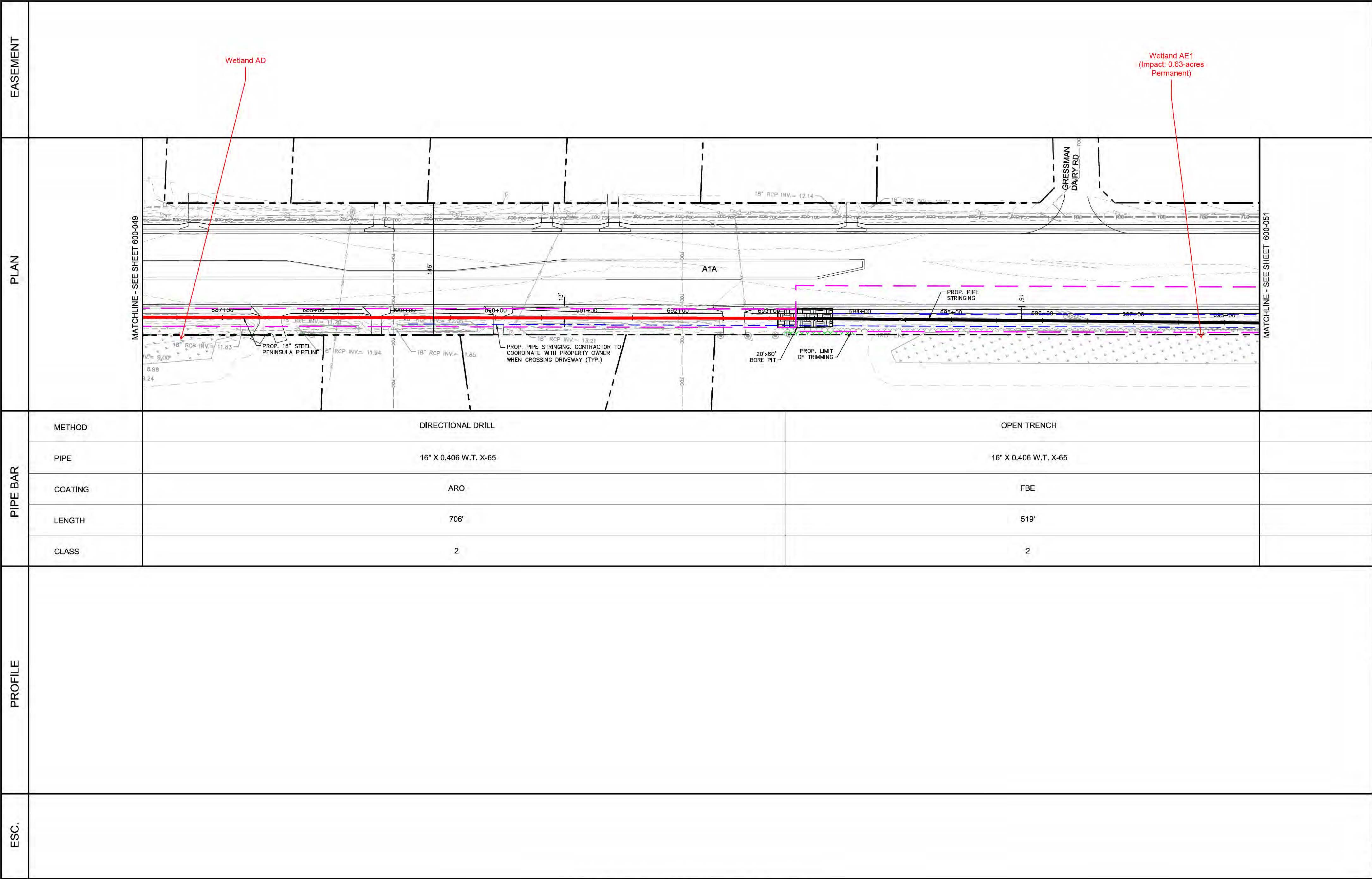
DRAWING NUMBER:

600-049

SHEET INDEX:

57 OF 142





**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
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- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC
- CABLE
- SUBSURFACE UNKNOWN UTILITY
- UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
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- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION


**GRAPHIC SCALE IN FEET**

0 25 50 100

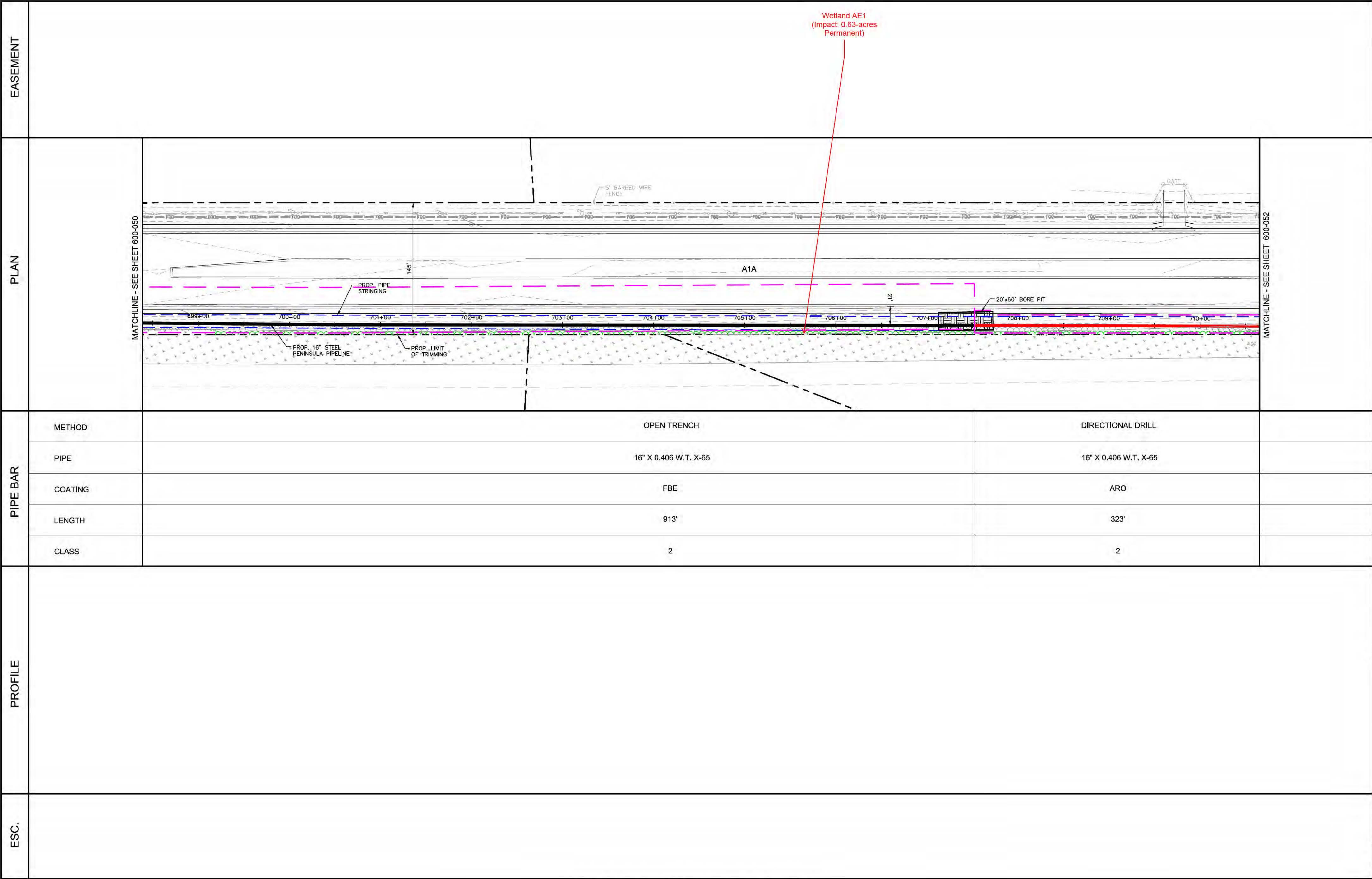
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**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

NORTH

GRAPHIC SCALE IN FEET

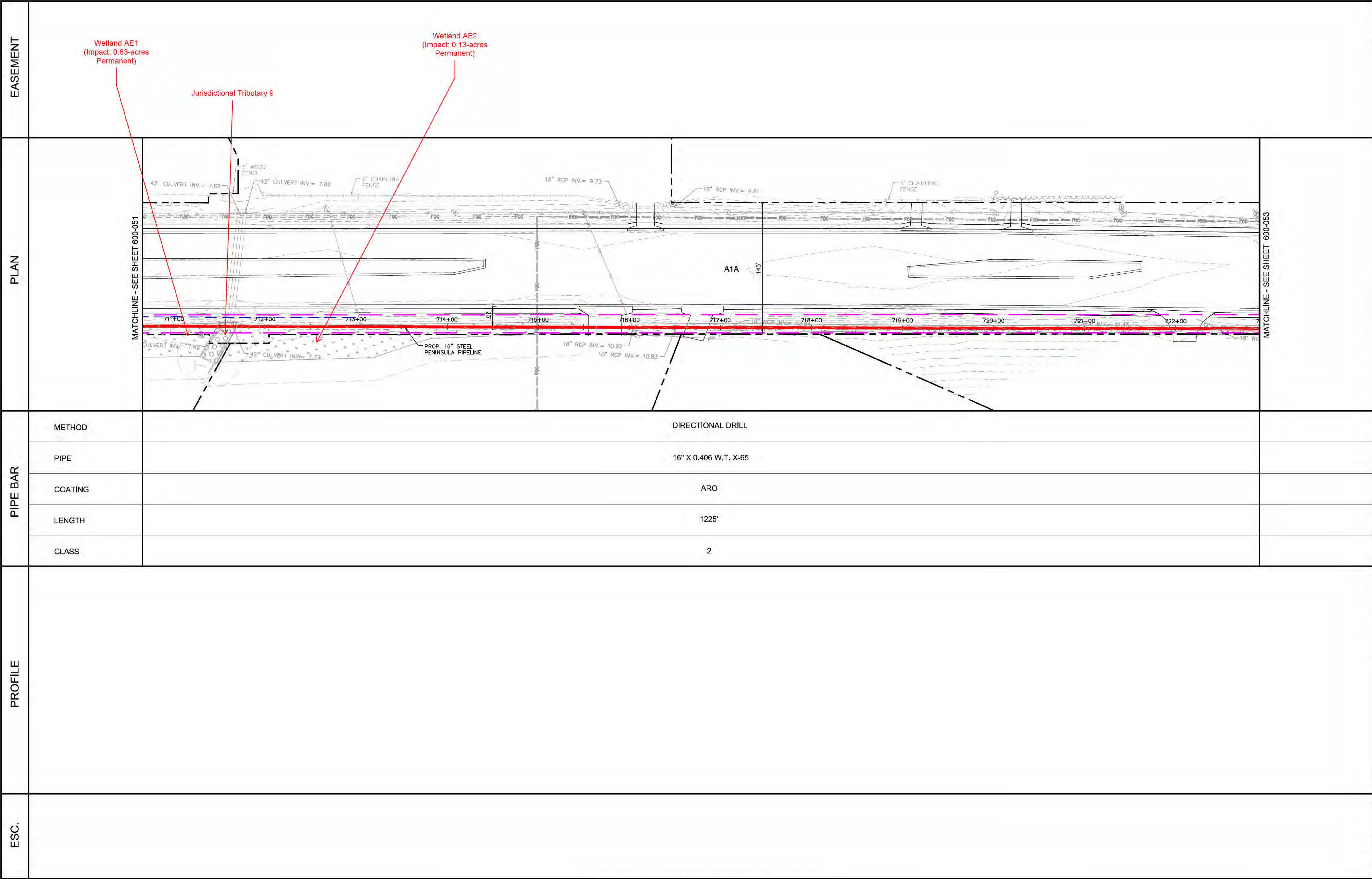
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CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

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### LEGEND

---	EASEMENT BOUNDARY
---	RIGHT-OF-WAY
---	EDGE OF PAVEMENT
---	DRIVEWAY
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---	EXISTING MAJOR CONTOURS
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---	SANITARY SEWER FORCE MAIN
---	SUBSURFACE TELECOMMUNICATIONS
---	W- SUBSURFACE WATER
---	RW- SUBSURFACE RECLAIMED WATER
---	G- SUBSURFACE GAS
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

REVISION:	DATE:	DRAWN BY:	CHECKED BY:
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ENGINEER:

**Kimley»Horn**

189 SOUTH ORANGE  
SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

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CLIENT:

**PENINSULA PIPELINE**

PROJECT NAME:

CALLAHAN PIPELINE 16" TRANSMISSION MAIN

SHEET TITLE:

PLAN & PROFILE

DATE:

4/23/2019

SCALE (H):

AS SHOWN

SCALE (V):

AS SHOWN

DRAWN BY:

AK

DESIGNED BY:

MA

CHECKED BY:

RC

SEAL:

90%  
PLANS

KHA PROJECT NUMBER:

143797004

DRAWING NUMBER:

600-052

SHEET INDEX:

60 OF 142

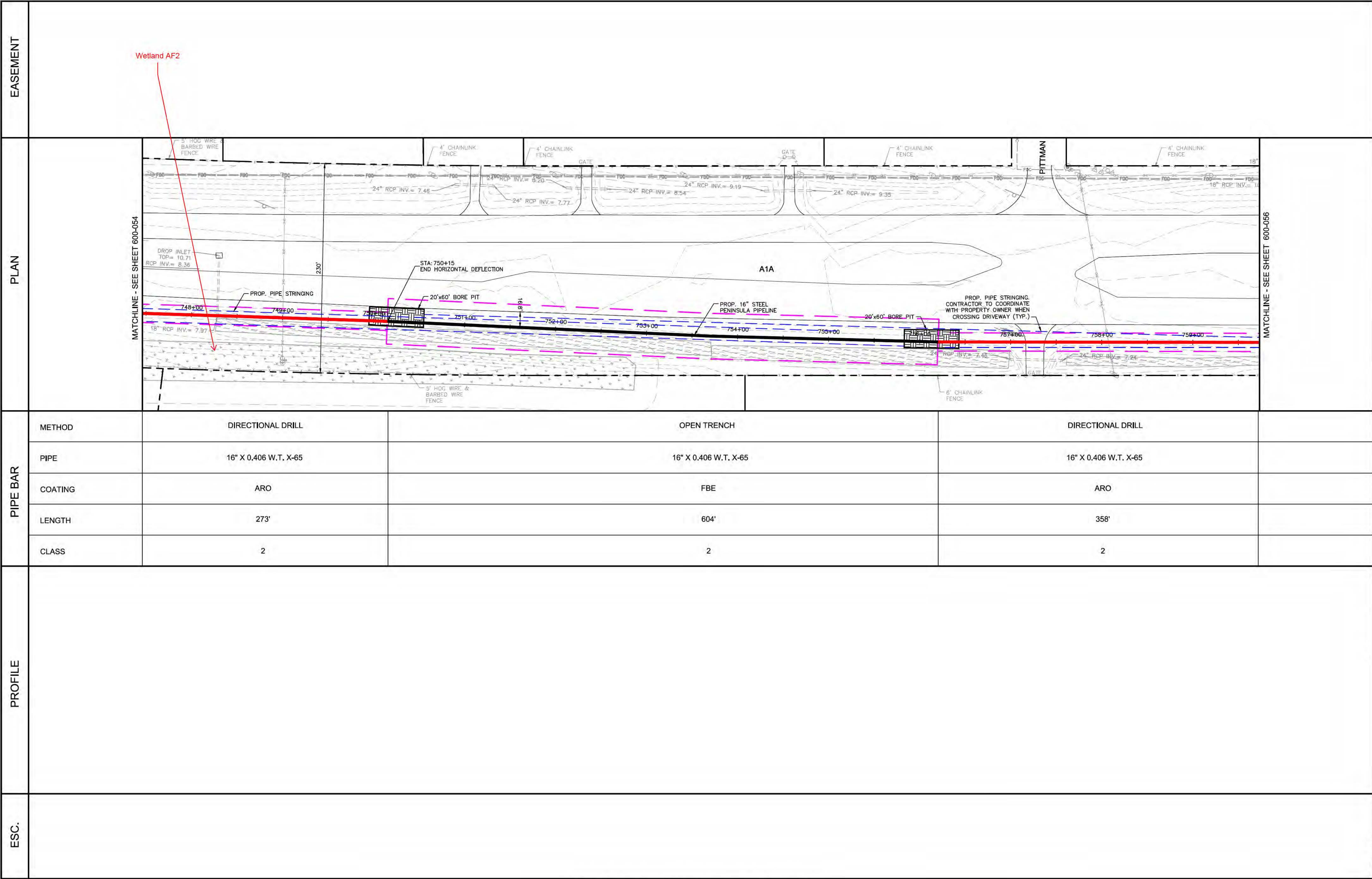












**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY
- EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS CABLE
- W-UGT
- RW
- G
- FDC
- UK
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

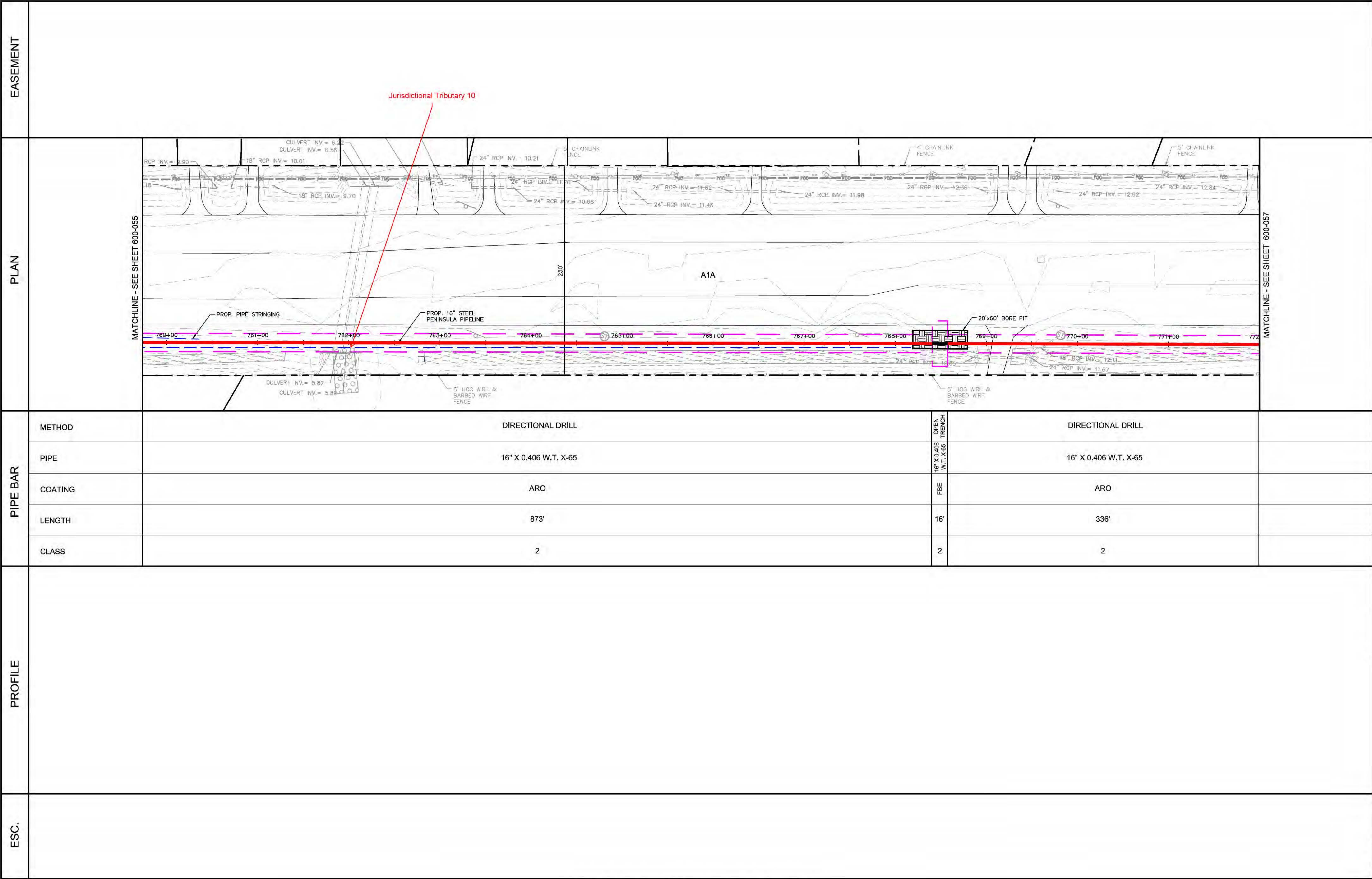
**CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION**

Always call 811 two full business days before you dig

**Sunshine811.com**

SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL					ENGINEER:		CLIENT:		PROJECT NAME:		DATE:		SEAL:	
					Kimley»Horn		PENINSULA PIPELINE		CALLAHAN PIPELINE 16" TRANSMISSION MAIN		4/22/2019			
					189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685				SHEET TITLE:		SCALE (H): AS SHOWN SCALE (V): AS SHOWN		DRAWN BY: AK	
					© 2019 Kimley-Horn & Associates, Inc.				PLAN & PROFILE		DESIGNED BY: MA		CHECKED BY: RC	
REVISION:					DATE:		DRAWN BY:		CHECKED BY:		90% PLANS		KHA PROJECT NUMBER: 143797004	
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													SHEET INDEX: 63 OF 142	





**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- UGT
- TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

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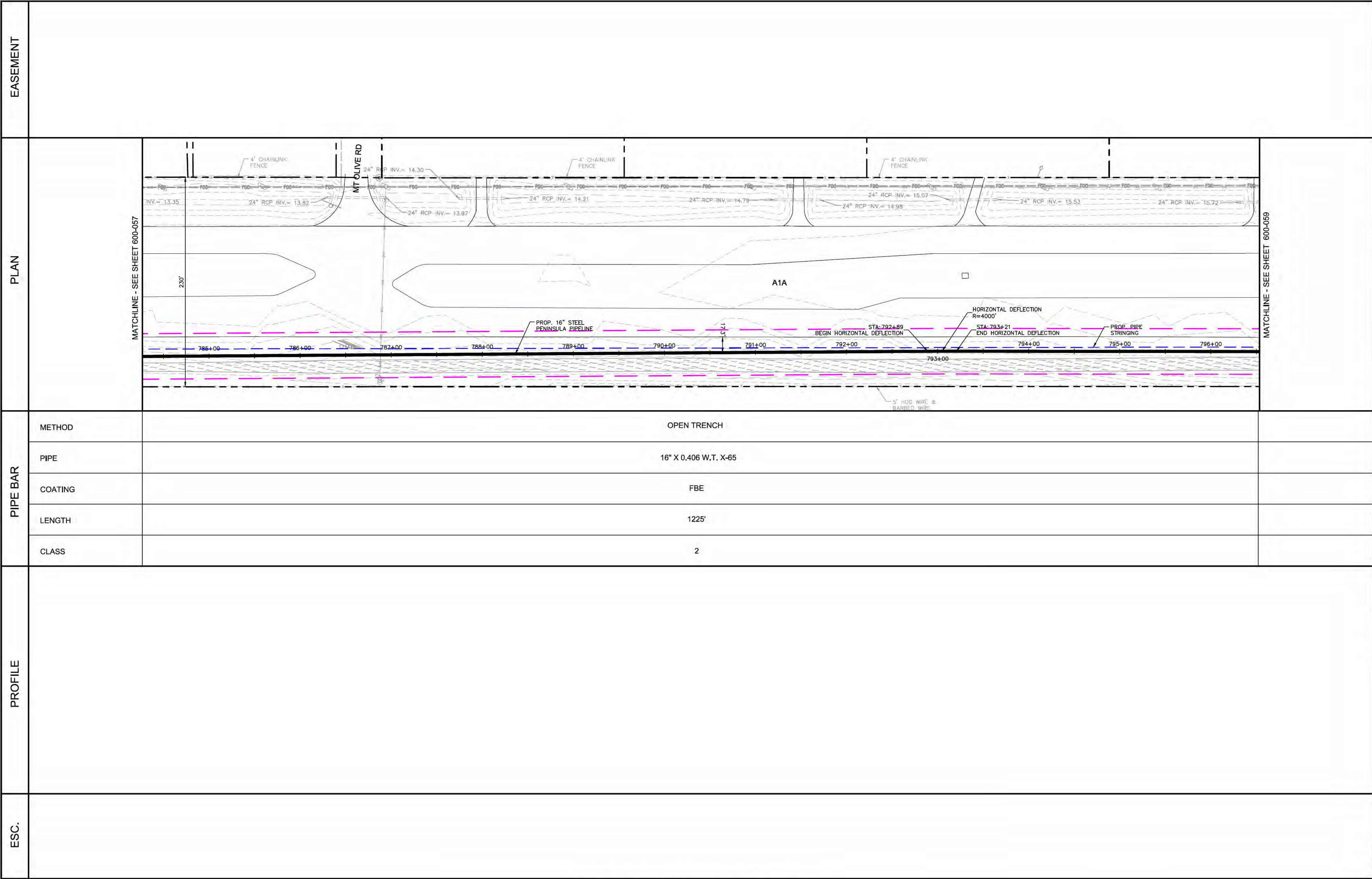
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REVISION:				DATE:	DRAWN BY:	CHECKED BY:	ENGINEER:		CLIENT:	PROJECT NAME:		DATE:	SCALE (H):	SCALE (V):	DRAWN BY:	DESIGNED BY:	CHECKED BY:	SEAL:		SHEET TITLE:	
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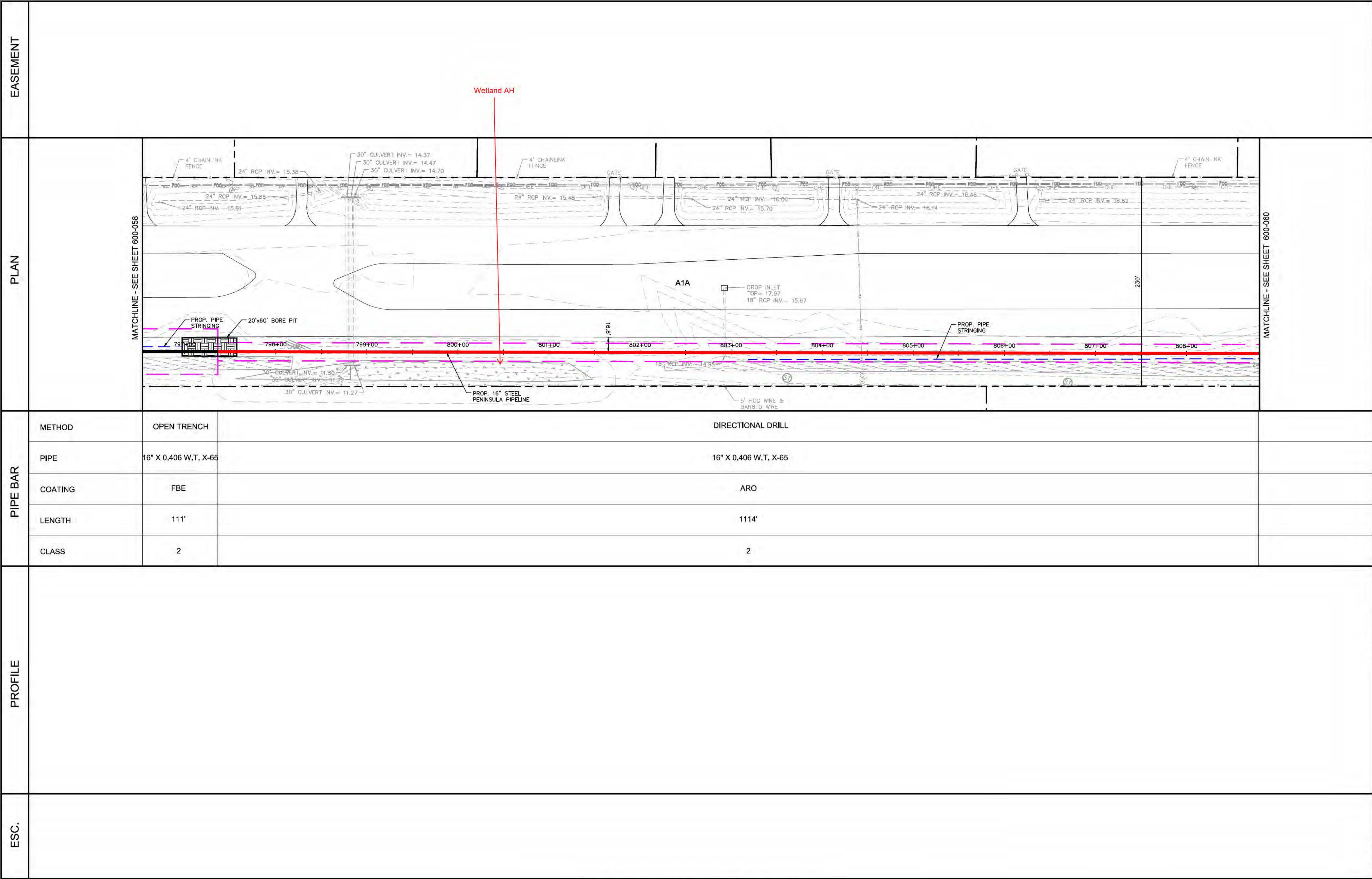
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- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

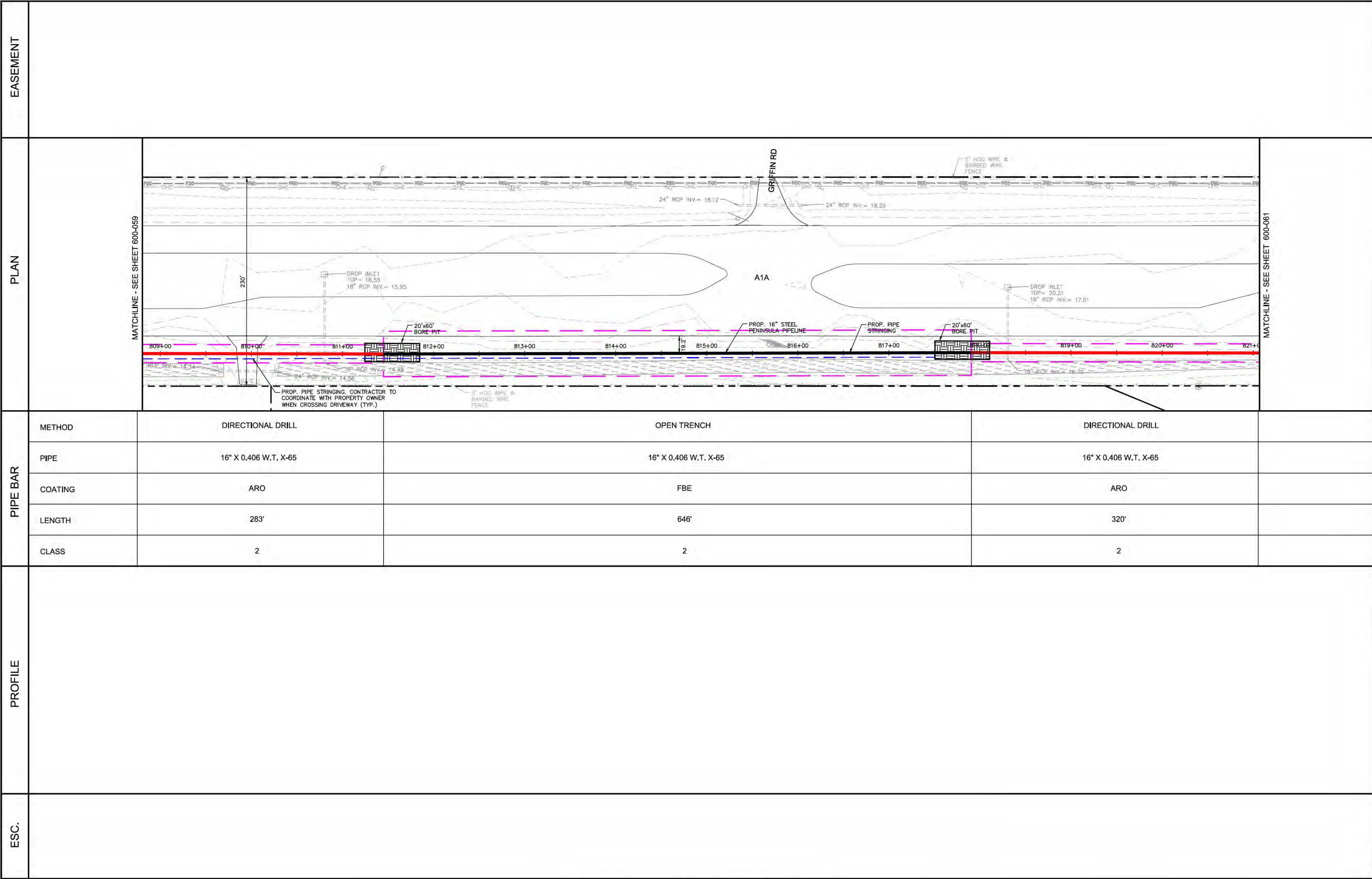
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**CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION**

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- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- W- SUBSURFACE WATER
- RW- SUBSURFACE RECLAIMED WATER
- G- SUBSURFACE GAS
- FDC- SUBSURFACE FIBER OPTIC CABLE
- UK- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION


**GRAPHIC SCALE IN FEET**

0 25 50 100

**CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION**

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL										SunshineFL.com 											
<div>REVISION:</div> <div>This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc. [Copyright Kimley-Horn and Associates, Inc., 2019]</div>				<div>ENGINEER:</div> <div></div> <div>189 SOUTH ORANGE SUITE 1000 ORLANDO, FLORIDA 32801 TEL: (407) 427-1685</div> <div>© 2019 Kimley-Horn &amp; Associates, Inc.</div>				<div>CLIENT:</div> <div></div>				<div>PROJECT NAME:</div> <div>CALLAHAN PIPELINE 16" TRANSMISSION MAIN</div> <div>SHEET TITLE:</div> <div>PLAN &amp; PROFILE</div>				<div>DATE:</div> <div>4/22/2019</div> <div>SCALE (H):</div> <div>AS SHOWN</div> <div>SCALE (V):</div> <div>AS SHOWN</div> <div>DRAWN BY:</div> <div>AK</div> <div>DESIGNED BY:</div> <div>MA</div> <div>CHECKED BY:</div> <div>RC</div>		<div>SEAL:</div> <div>90% PLANS</div>		<div>KHA PROJECT NUMBER:</div> <div>143797004</div> <div>DRAWING NUMBER:</div> <div>600-060</div> <div>SHEET INDEX:</div> <div>68 OF 142</div>	

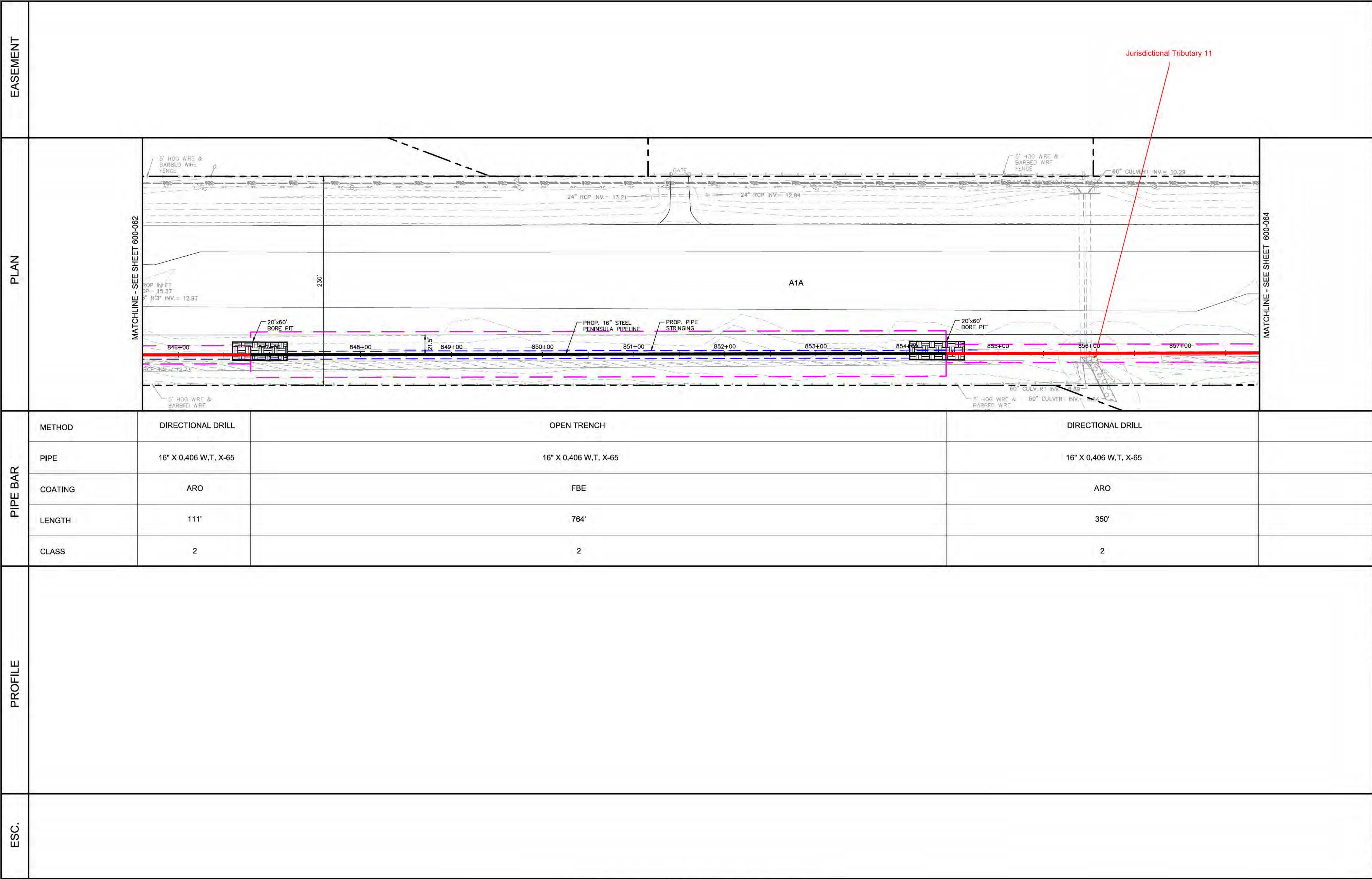












**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY
- EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
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GRAPHIC SCALE IN FEET

0 25 50 100

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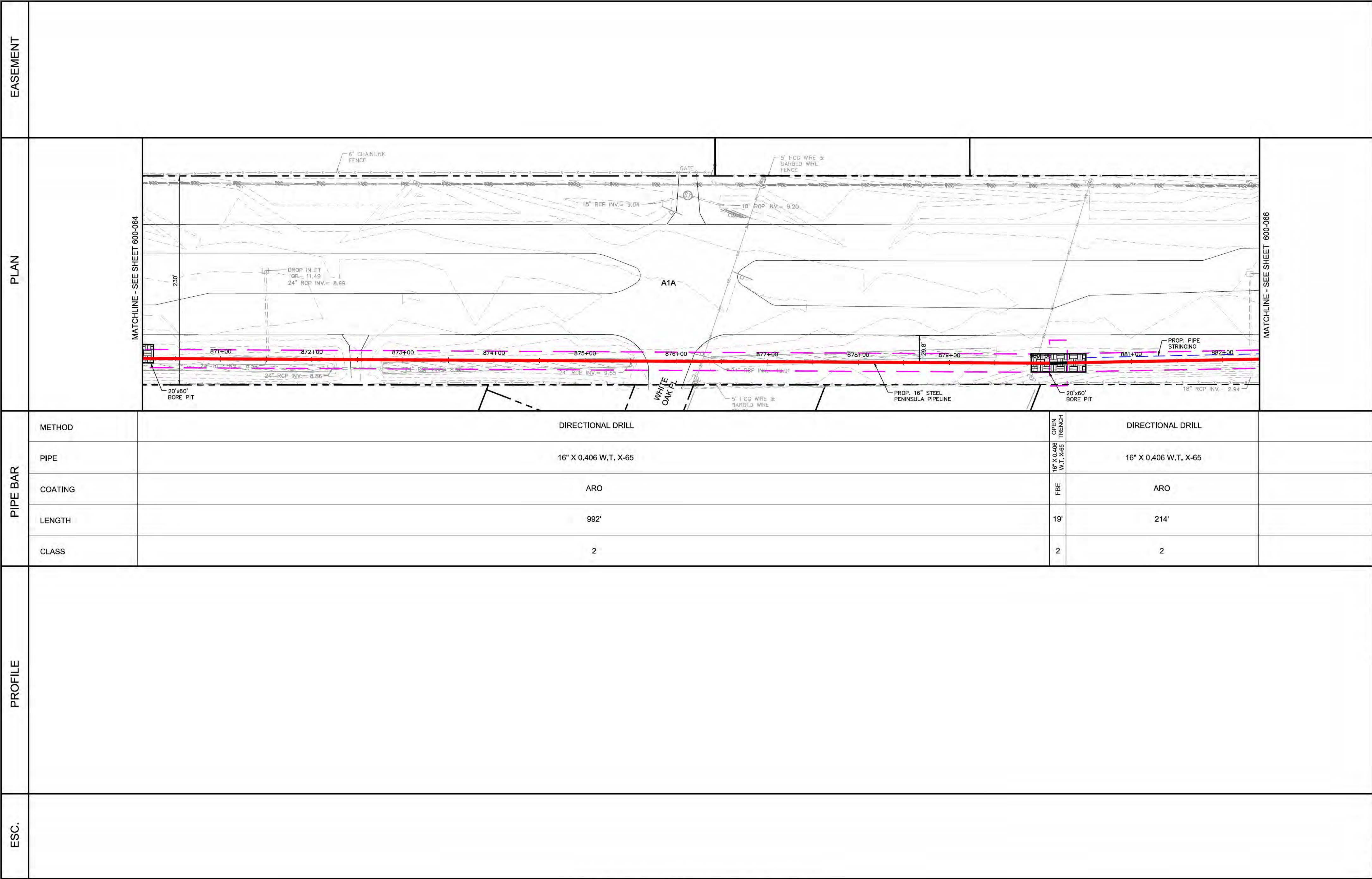
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**LEGEND**

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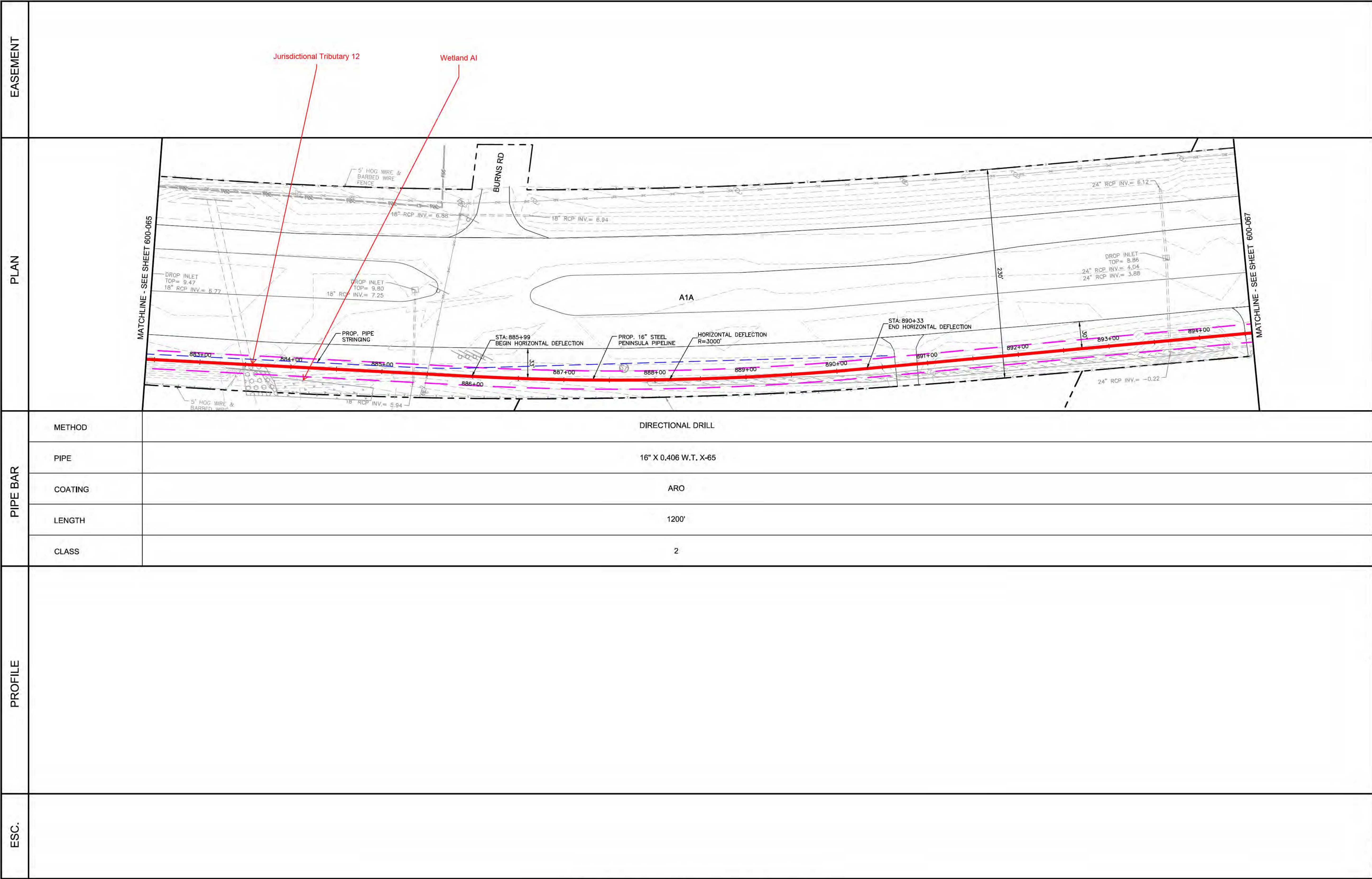
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90% PLANS

KHA PROJECT NUMBER:  
**143797004**  
DRAWING NUMBER:  
**600-065**  
SHEET INDEX:  
**73 OF 142**





### LEGEND

---	EASEMENT BOUNDARY
---	RIGHT-OF-WAY
---	EDGE OF PAVEMENT
---	DRIVEWAY EDGE
---	BUILDING
---	EXISTING MAJOR CONTOURS
---	FENCE LINE
---	OVERHEAD POWER LINE
---	SANITARY SEWER LINE
---	STORM LINE
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---	UGT
---	SUBSURFACE TELECOMMUNICATIONS
---	W
---	RW
---	G
---	SUBSURFACE GAS
---	SUBSURFACE FIBER OPTIC
---	CABLE
---	FOC
---	SUBSURFACE UNKNOWN UTILITY
---	UK
---	EXIST. TREELINE
---	ENVIRONMENTAL FEATURE BUFFER
---	INSTALLATION CORRIDOR BOUNDARY
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---	STREAM
---	DRAINAGE FEATURE
---	PERMANENT UTILITY EASEMENT
---	TEMPORARY WORK SPACE
---	POWER POLE & GUY WIRE
---	TEST HOLE LOCATION

NORTH


GRAPHIC SCALE IN FEET

0 25 50 100

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

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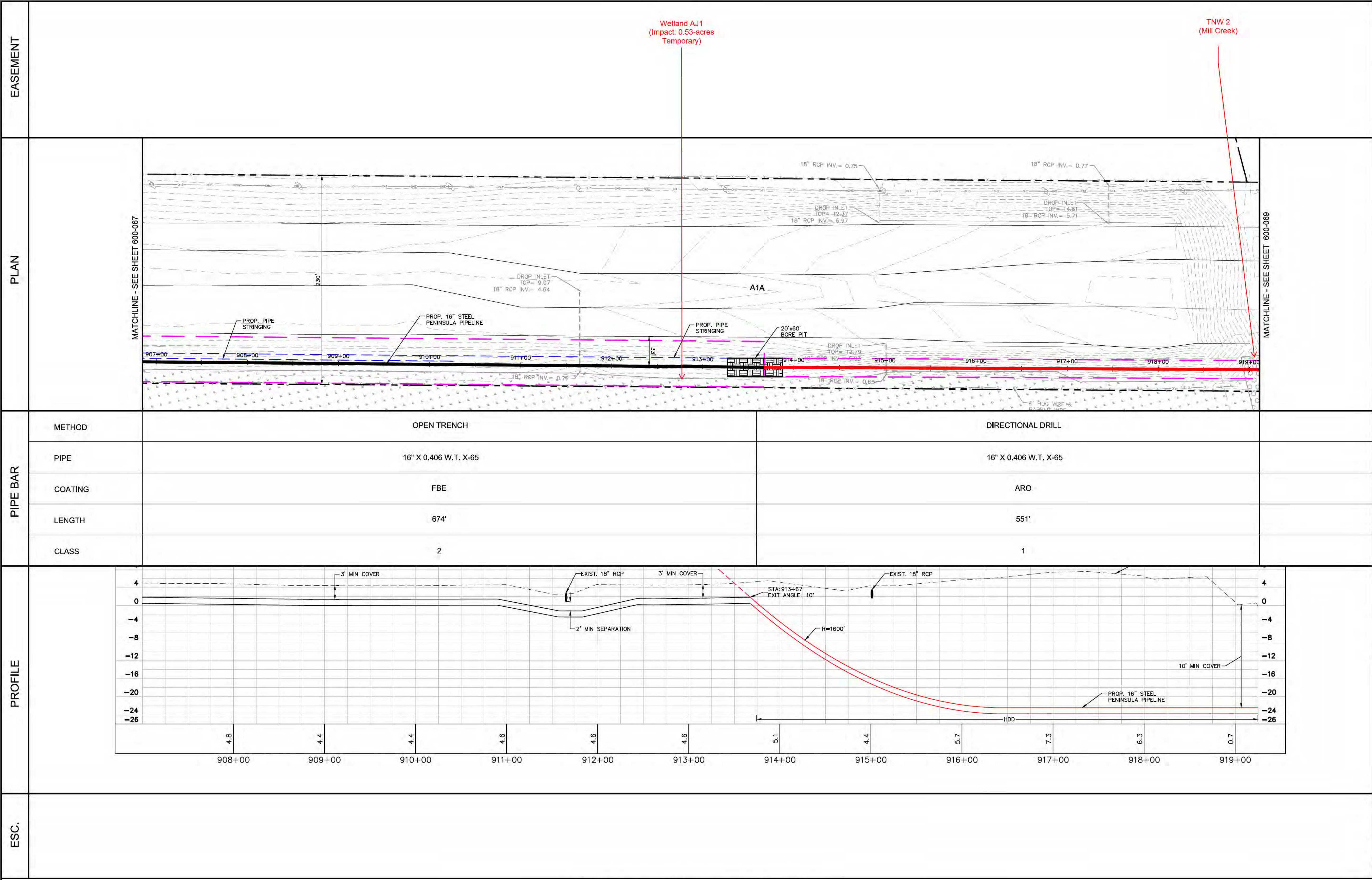
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**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC
- CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

**CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION**

Always call 811 two full business days before you dig

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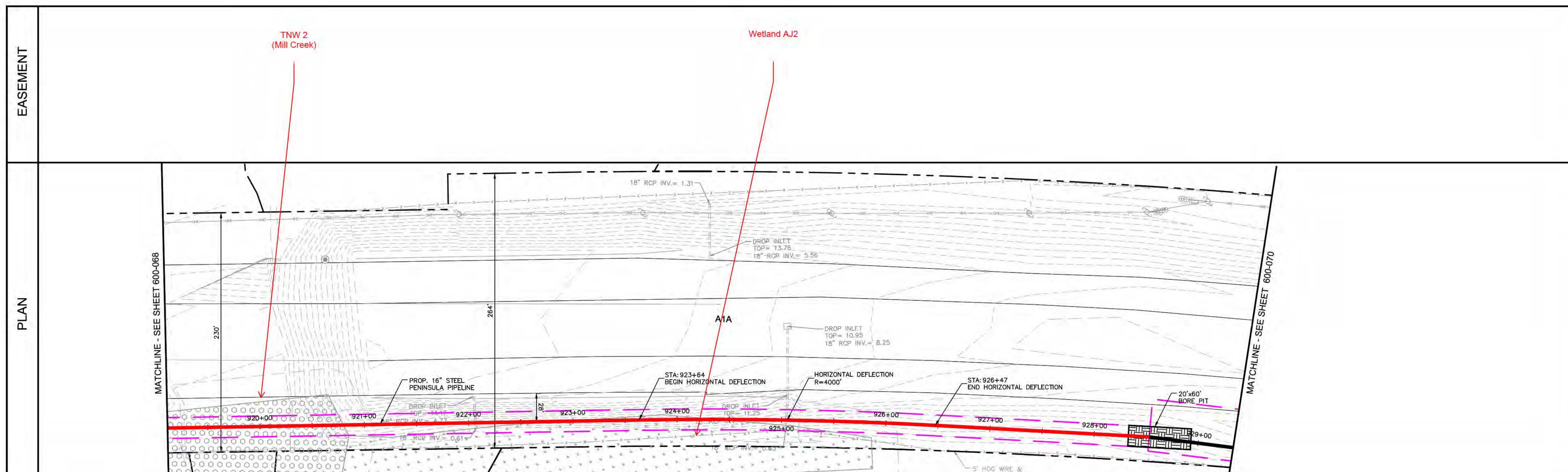
**90% PLANS**

KHA PROJECT NUMBER: 143797004

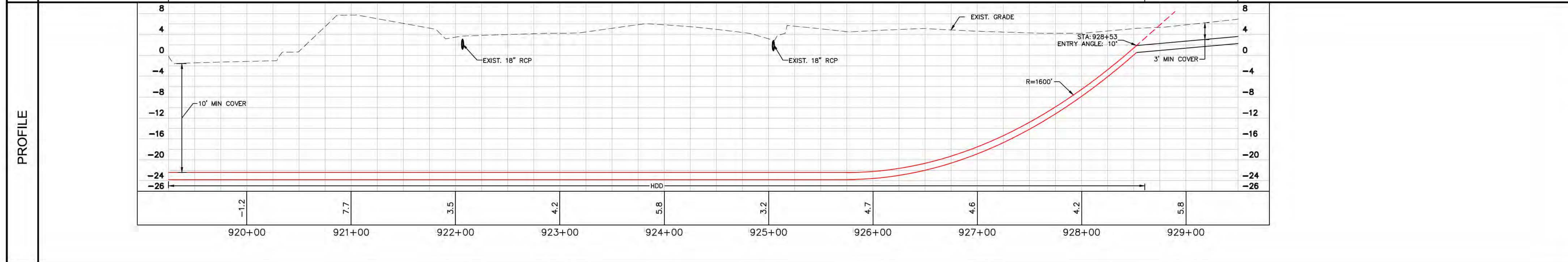
DRAWING NUMBER: 600-068

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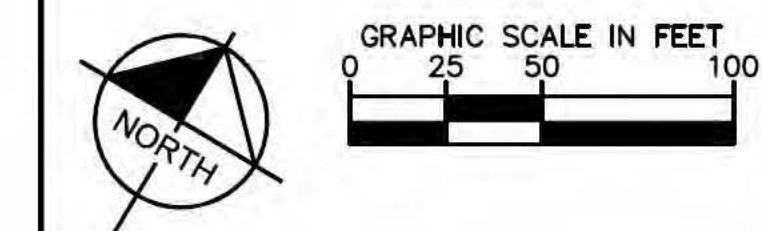


PIPE BAR	METHOD	DIRECTIONAL DRILL	OPEN TRENCH	
	PIPE	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65	
	COATING	ARO	FBE	
	LENGTH	936'	89'	
	CLASS	1	1	



## LEGEND

	EASEMENT BOUNDARY
	RIGHT-OF-WAY
	EDGE OF PAYMENT
	DRIVEWAY EDGE
	BUILDING
	EXISTING MAJOR CONTOURS
	FENCE LINE
	OVERHEAD POWER LINE
	SANITARY SEWER LINE
	STORM LINE
	SANITARY SEWER FORCE MAIN
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	WETLAND
	STREAM
	DRAINAGE FEATURE
	PERMANENT UTILITY EASEMENT
	TEMPORARY WORK SPACE
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	TEST HOLE LOCATION



CONTRACTOR IS RESPONSIBLE FOR  
FIELD VERIFYING EXACT LOCATIONS  
AND ELEVATIONS OF ALL EXISTING  
UTILITIES PRIOR TO CONSTRUCTION

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**90%  
PLANS**

KHA PROJECT NUMBER: <b>143797004</b>
DRAWING NUMBER: <b>600-069</b>
SHEET INDEX: <b>77 OF 142</b>

SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

REVISION:	DATE:	DRAWN BY:	CHECKED BY:
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ENGINEER:

**Kimley»Horn**

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SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

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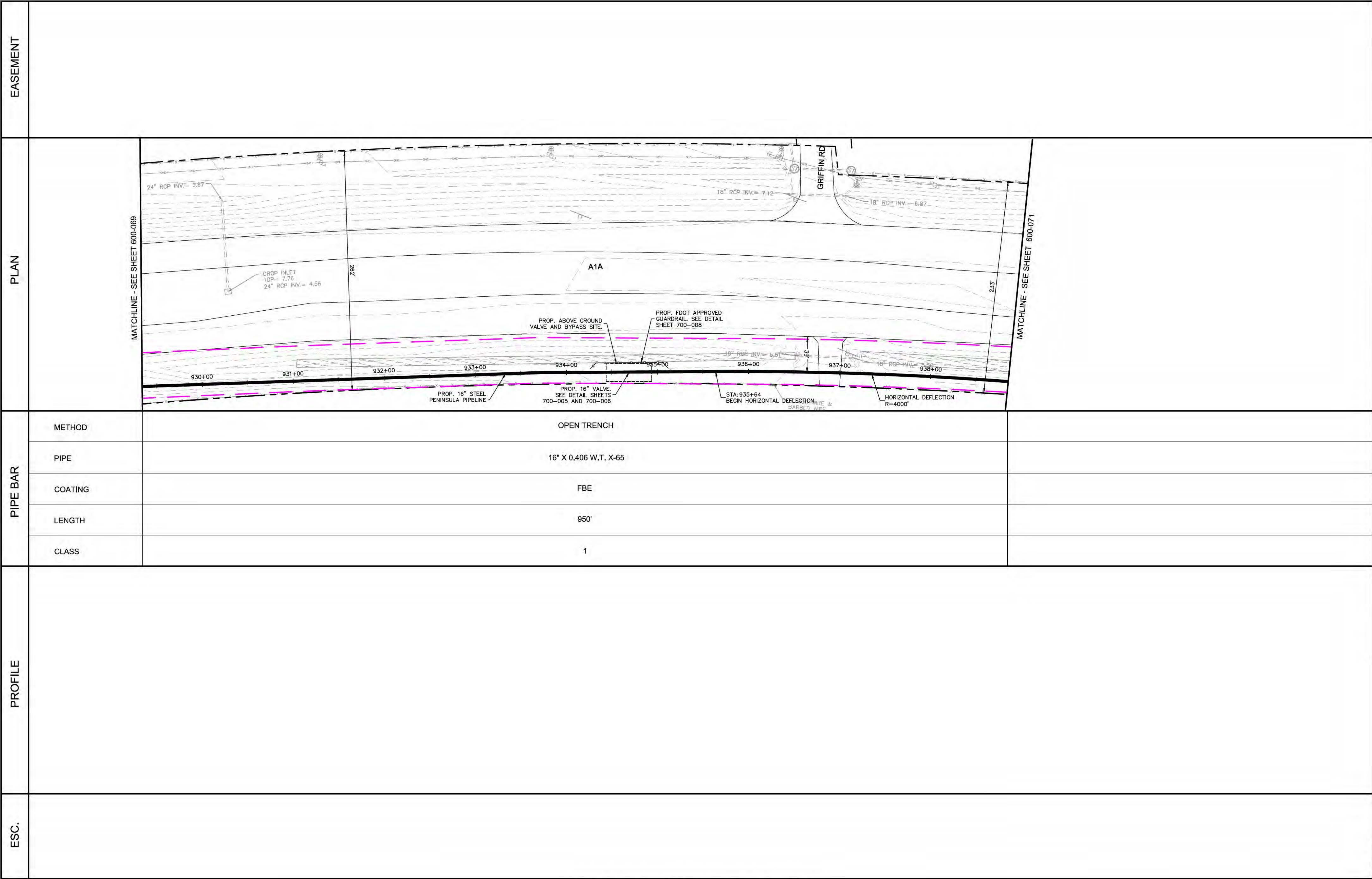
**PENINSULA**  
**PIPELINE**



PROJECT NAME:	CALLAHAN PIPELINE 16" TRANSMISSION MAIN
SHEET TITLE:	PLAN & PROFILE

DATE: 4/23/2019	SEAL:	
SCALE (H): AS SHOWN	<div>90%</div> <div>PLANS</div>	KHA PROJECT NUMBER: 143797004
SCALE (V): AS SHOWN		DRAWING NUMBER: 600-069
DRAWN BY: AK		SHEET INDEX: 77 OF 142
DESIGNED BY: MA		
CHECKED BY: RC		





**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- UGT
- TELECOMMUNICATIONS
- W
- RW
- G
- FDC
- CABLE
- UK
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

GRAPHIC SCALE IN FEET


0 25 50 100

NORTH

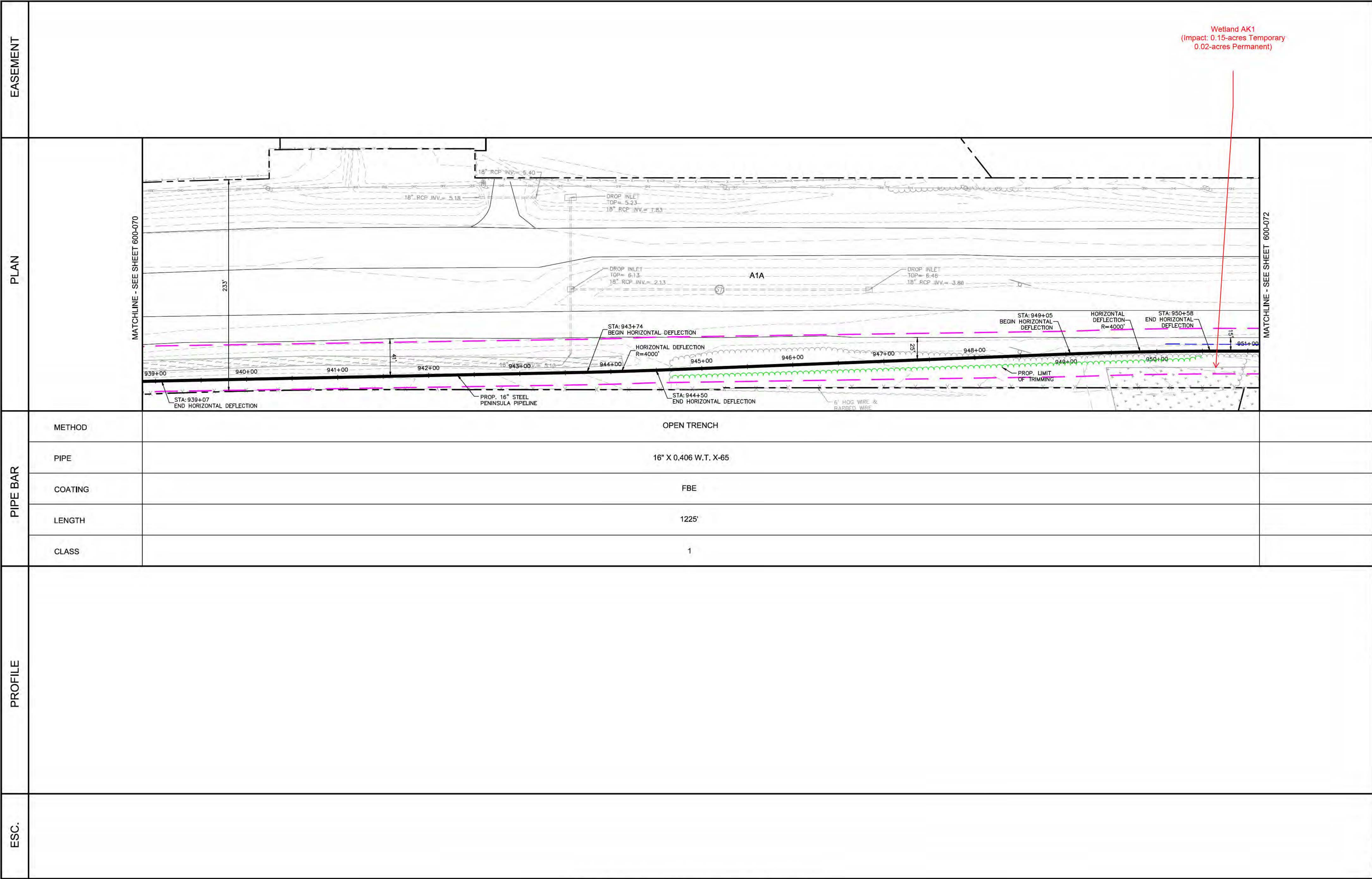
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL										SunshineFL.com 																																			
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**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC
- CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
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- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

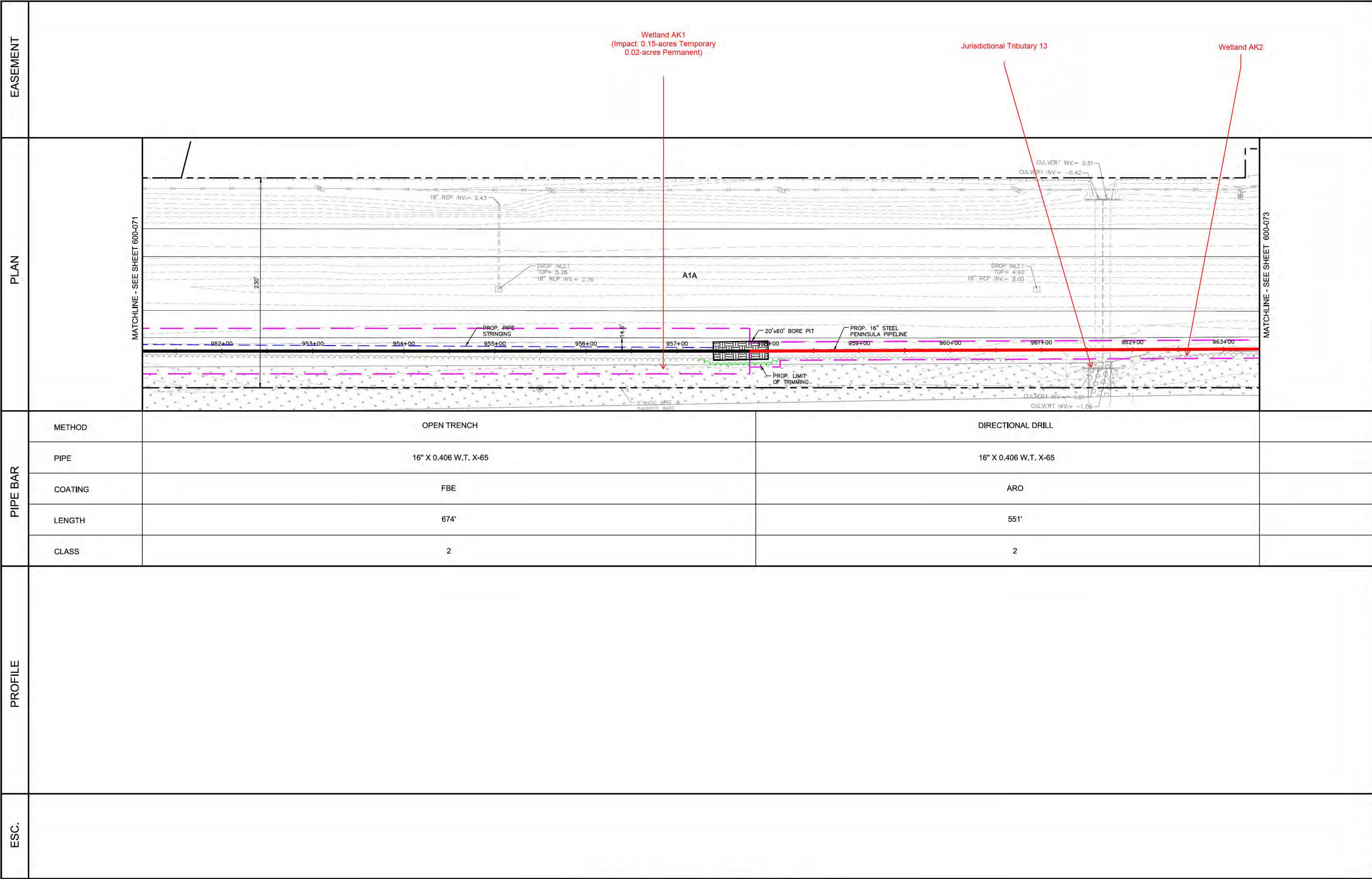
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							<b>PENINSULA PIPELINE</b>		
							CLIENT:		
							PROJECT NAME:		
							CALLAHAN PIPELINE 16" TRANSMISSION MAIN		
							SHEET TITLE:		
							PLAN & PROFILE		
				DATE:	4/23/2019	SCALE (H):	AS SHOWN	SCALE (V):	AS SHOWN
				DRAWN BY:	AK	DESIGNED BY:	MA	CHECKED BY:	RC
				SEAL:		90% PLANS	KHA PROJECT NUMBER:		
							143797004		
							DRAWING NUMBER:		
							600-071		
							SHEET INDEX:		
							79 OF 142		





**LEGEND**

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- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- UGT
- W
- RW
- G
- FDC
- UK
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
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- TEST HOLE LOCATION

**GRAPHIC SCALE IN FEET**

0 25 50 100

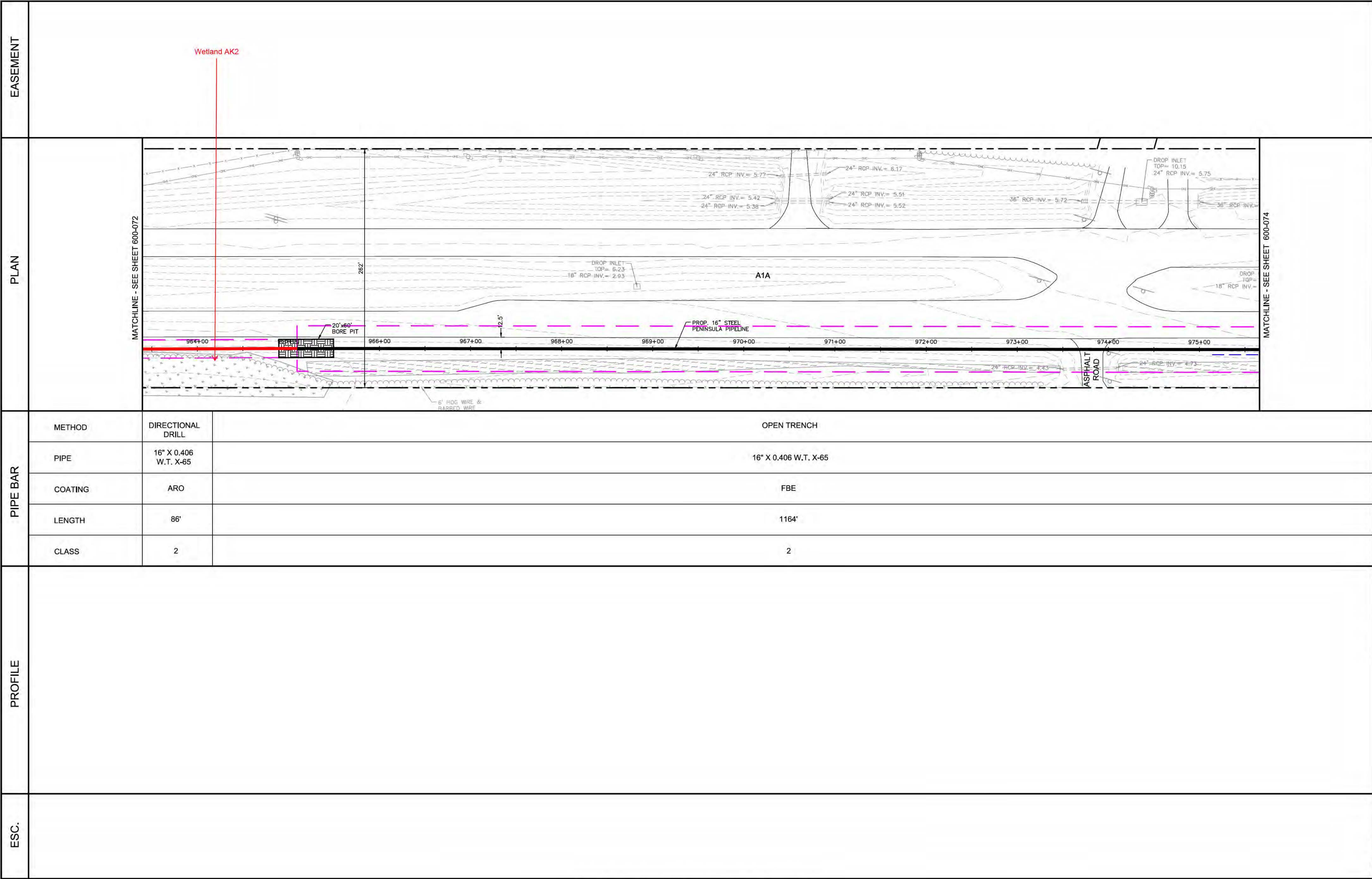
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							90% PLANS		
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							DRAWING NUMBER:		
							600-072		
							SHEET INDEX:		
							80 OF 142		





**LEGEND**

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--- RIGHT-OF-WAY  
--- EDGE OF PAVEMENT  
--- DRIVEWAY EDGE  
--- BUILDING  
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--- SANITARY SEWER LINE  
--- STORM LINE  
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--- UGT  
--- SUBSURFACE TELECOMMUNICATIONS  
--- W-  
--- RW-  
--- G-  
--- FDC  
--- CABLE  
--- SUBSURFACE UNKNOWN UTILITY  
--- EXIST. TREELINE  
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--- INSTALLATION CORRIDOR BOUNDARY

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--- STREAM  
--- DRAINAGE FEATURE  
--- PERMANENT UTILITY EASEMENT  
--- TEMPORARY WORK SPACE

--- POWER POLE & GUY WIRE  
--- TEST HOLE LOCATION

PIPE BAR	METHOD	DIRECTIONAL DRILL	OPEN TRENCH
	PIPE	16" X 0.406 W.T. X-65	16" X 0.406 W.T. X-65
	COATING	ARO	FBE
	LENGTH	86'	1164'
	CLASS	2	2



ESC.	
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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

REVISION:	DATE:	DRAWN BY:	CHECKED BY:	ENGINEER:	CLIENT:	PROJECT NAME:	DATE:	SCALE (H):	SCALE (V):	DRAWN BY:	DESIGNED BY:	CHECKED BY:	SEAL:	90% PLANS	KHA PROJECT NUMBER:											
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PENINSULA PIPELINE

CALLAHAN PIPELINE 16" TRANSMISSION MAIN

PLAN & PROFILE

4/22/2019 AS SHOWN AS SHOWN AK MA RC

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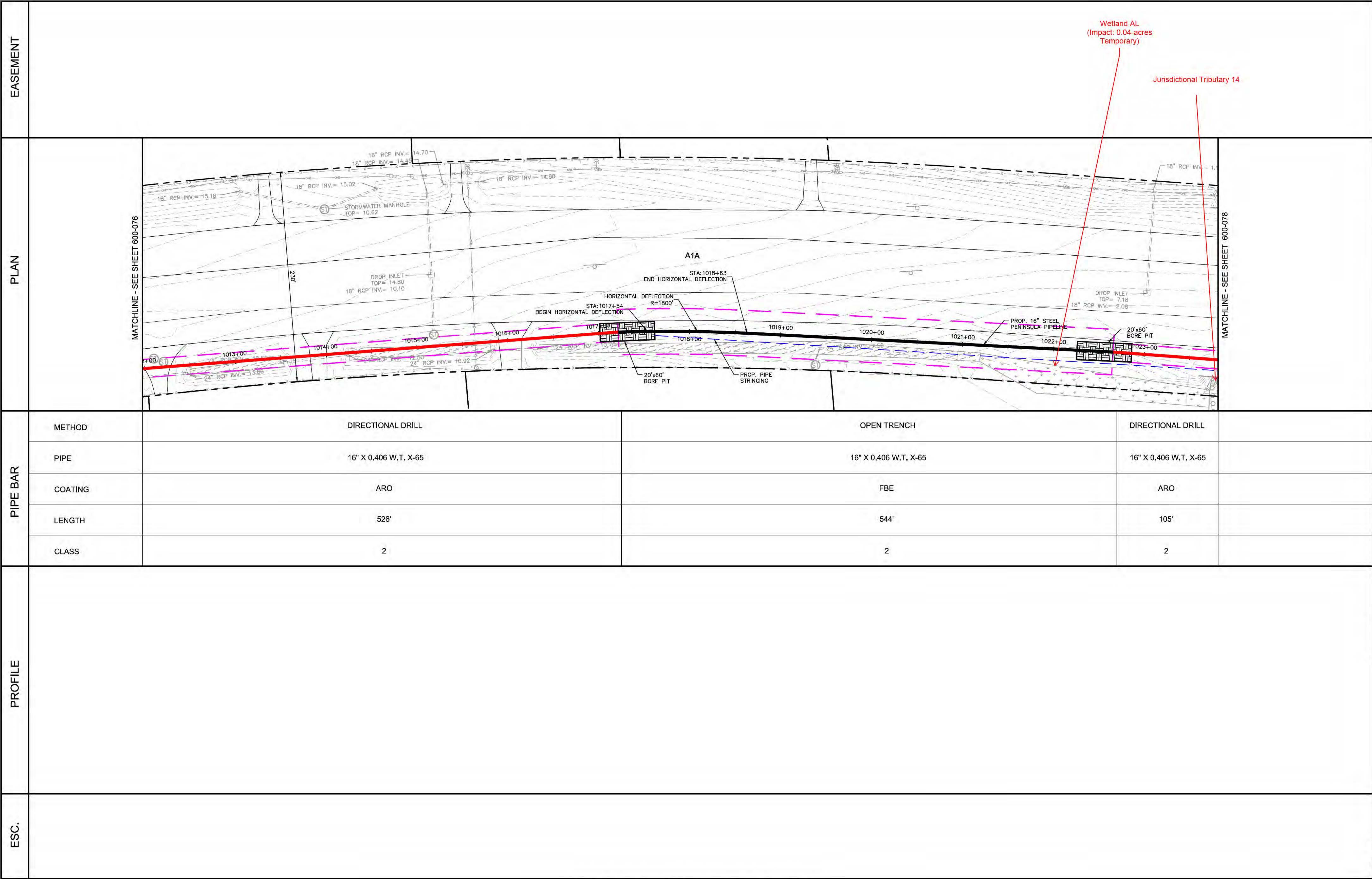












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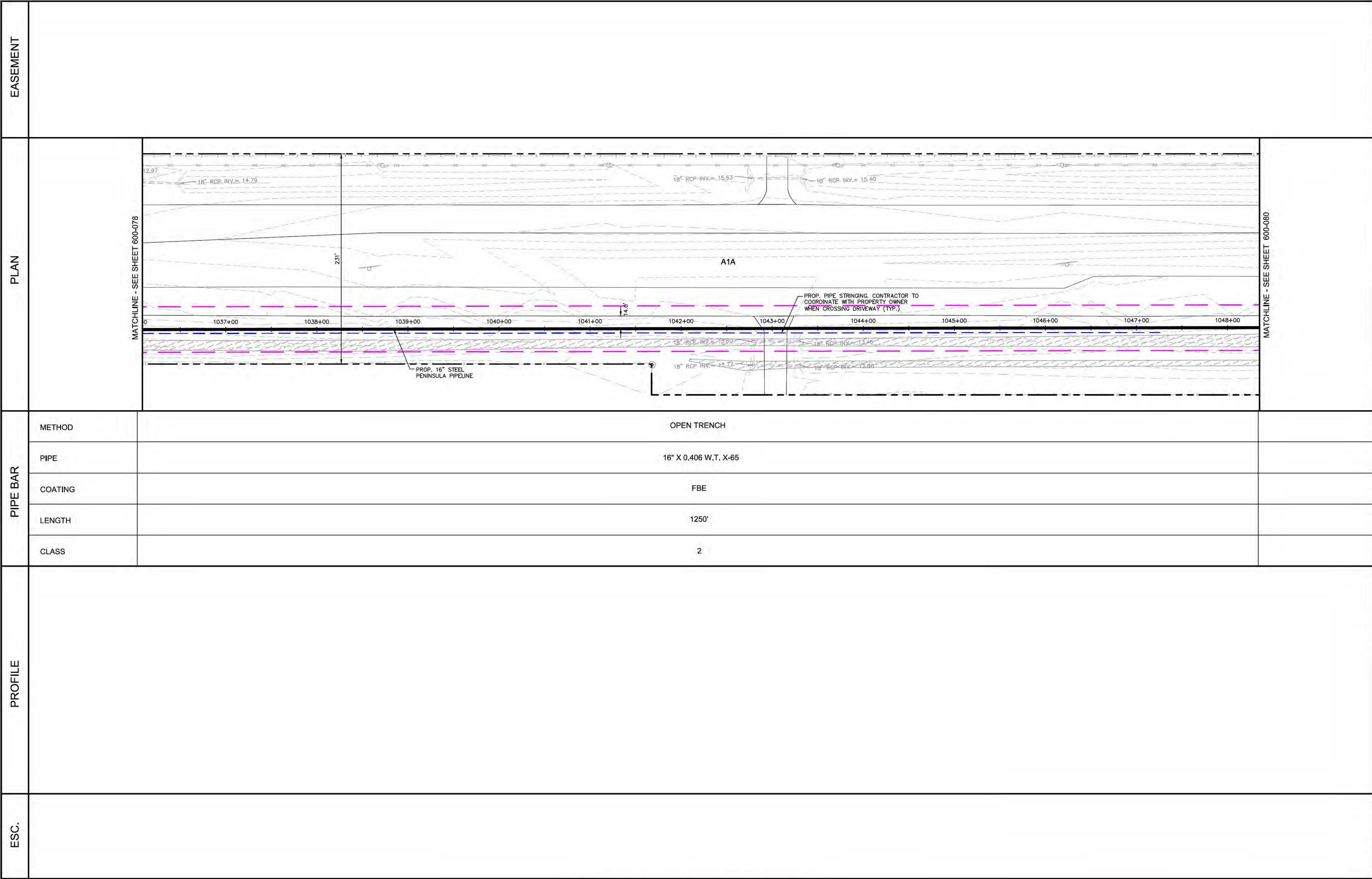
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									DATE: 4/22/2019 SCALE (H): AS SHOWN SCALE (V): AS SHOWN	
									DRAWN BY: AK DESIGNED BY: MA CHECKED BY: RC	
									SEAL:	
									90% PLANS	
									KHA PROJECT NUMBER: 143797004	
									DRAWING NUMBER: 600-077	
									SHEET INDEX: 85 OF 142	









**LEGEND**

- EASEMENT BOUNDARY
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GRAPHIC SCALE IN FEET  
0 25 50 100

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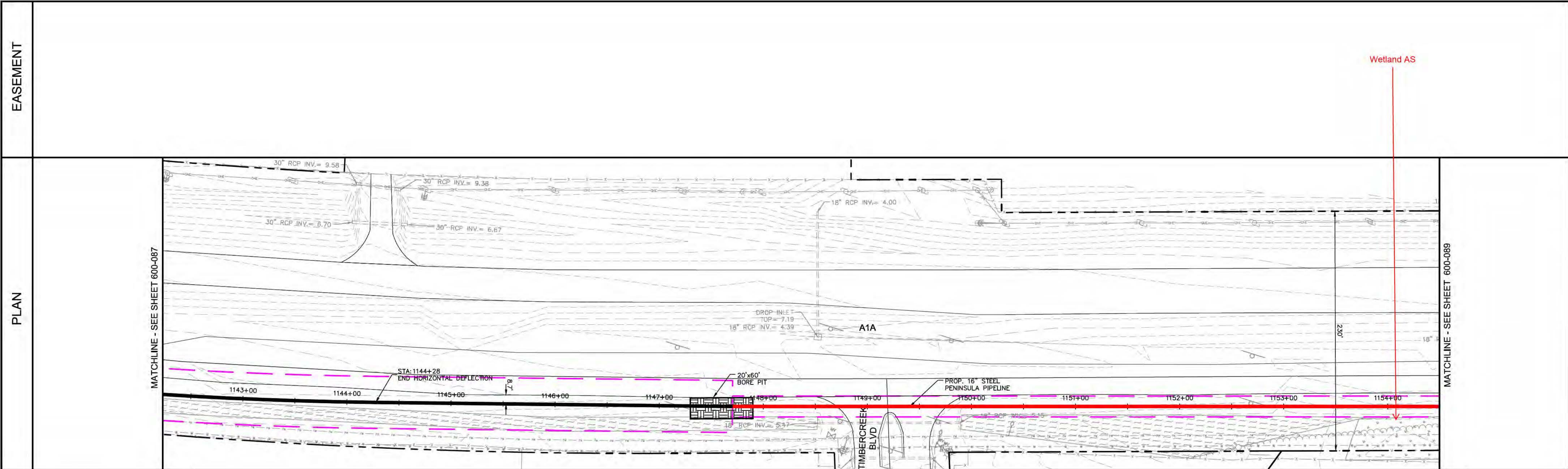






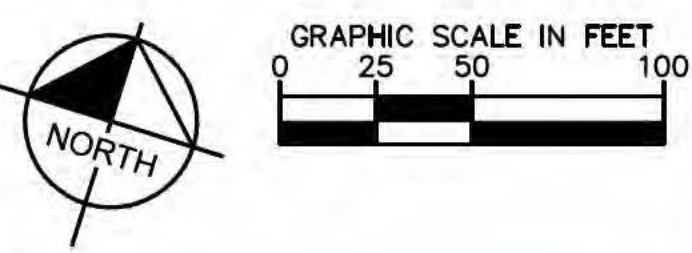
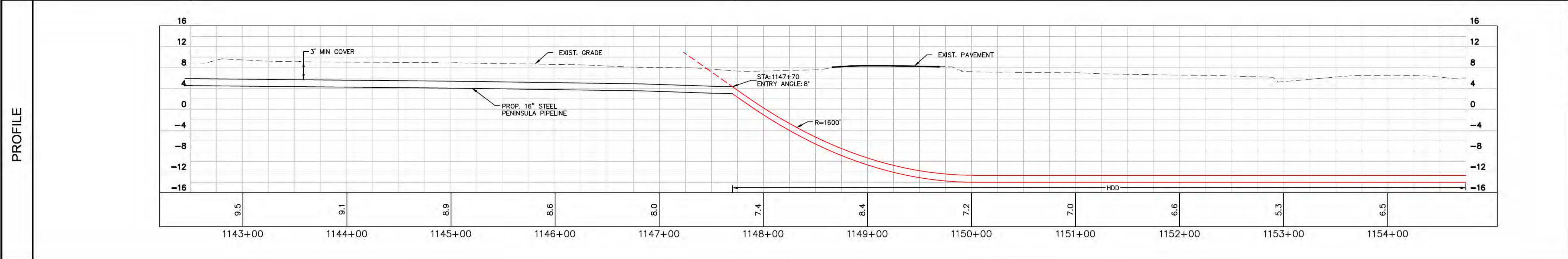






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  - WATER
  - SUBSURFACE RECLAIMED
  - SUBSURFACE GAS
  - SUBSURFACE FIBER OPTIC
  - CABLE
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PIPE BAR	METHOD	OPEN TRENCH		DIRECTIONAL DRILL	
	PIPE	16" X 0.406 W.T. X-65		16" X 0.406 W.T. X-65	
	COATING	FBE		ARO	
	LENGTH	520'		705'	
	CLASS	2		2	



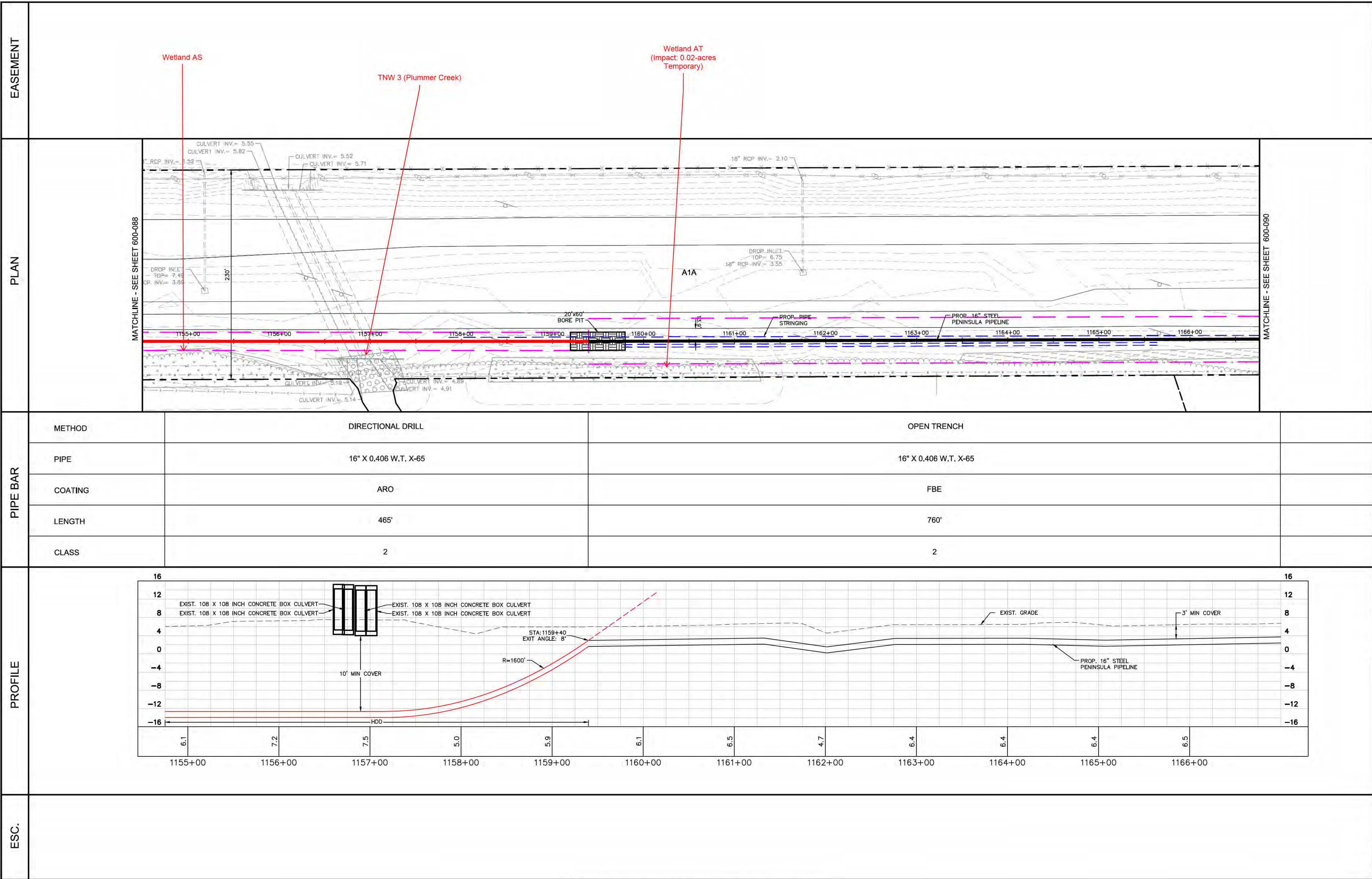
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**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
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**GRAPHIC SCALE IN FEET**

0 25 50 100

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**90% PLANS**

KHA PROJECT NUMBER:  
**143797004**

DRAWING NUMBER:  
**600-089**

SHEET INDEX:  
**97 OF 142**

SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL

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ENGINEER:

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SUITE 1000  
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TEL: (407) 427-1685

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CLIENT:

**PENINSULA PIPELINE**

PROJECT NAME:

**CALLAHAN PIPELINE 16" TRANSMISSION MAIN**

SHEET TITLE:

**PLAN & PROFILE**

DATE:  
4/23/2019

SCALE (H):  
AS SHOWN

SCALE (V):  
AS SHOWN

DRAWN BY:  
AK

DESIGNED BY:  
MA

CHECKED BY:  
RC

SEAL:

















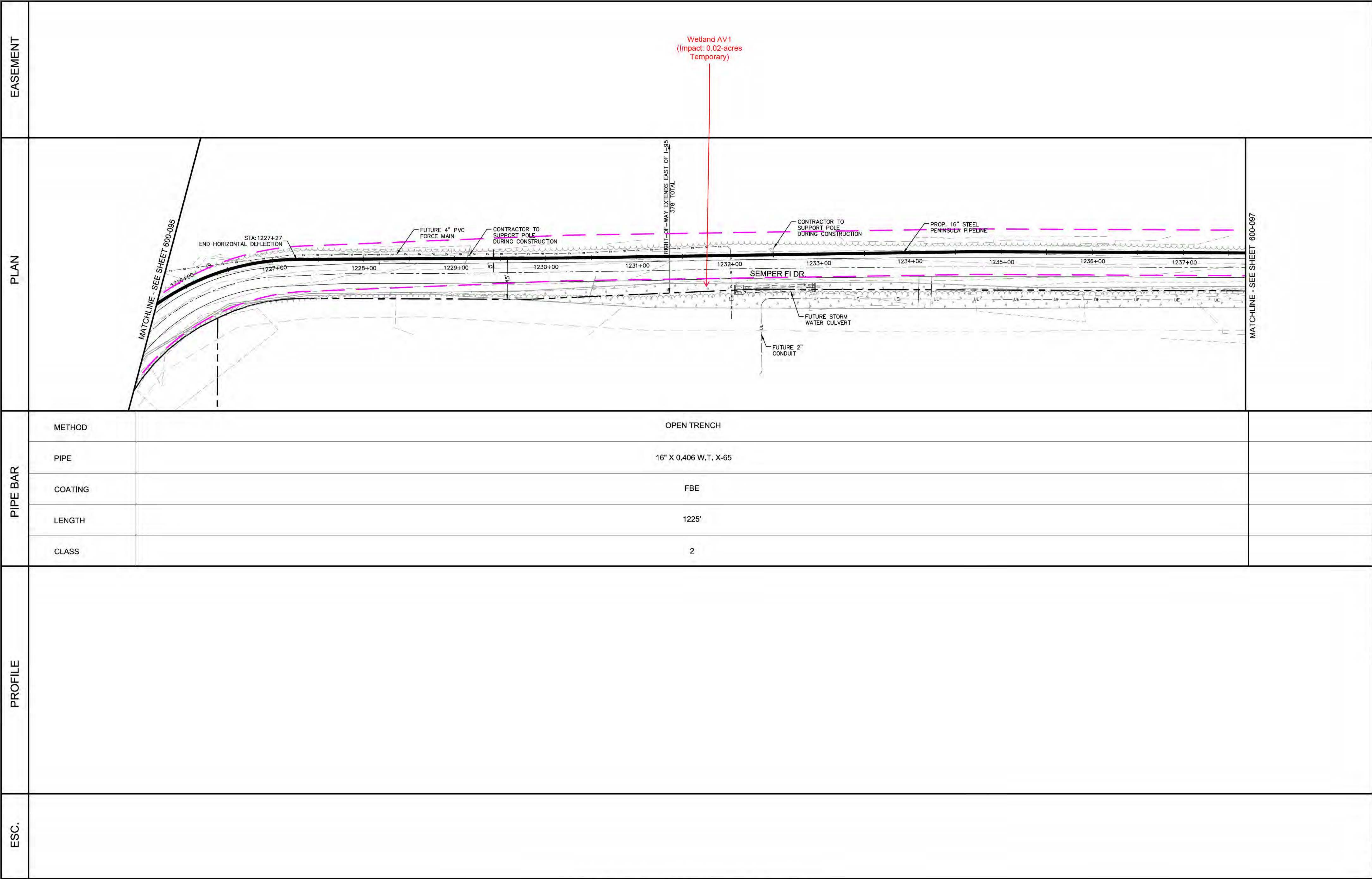












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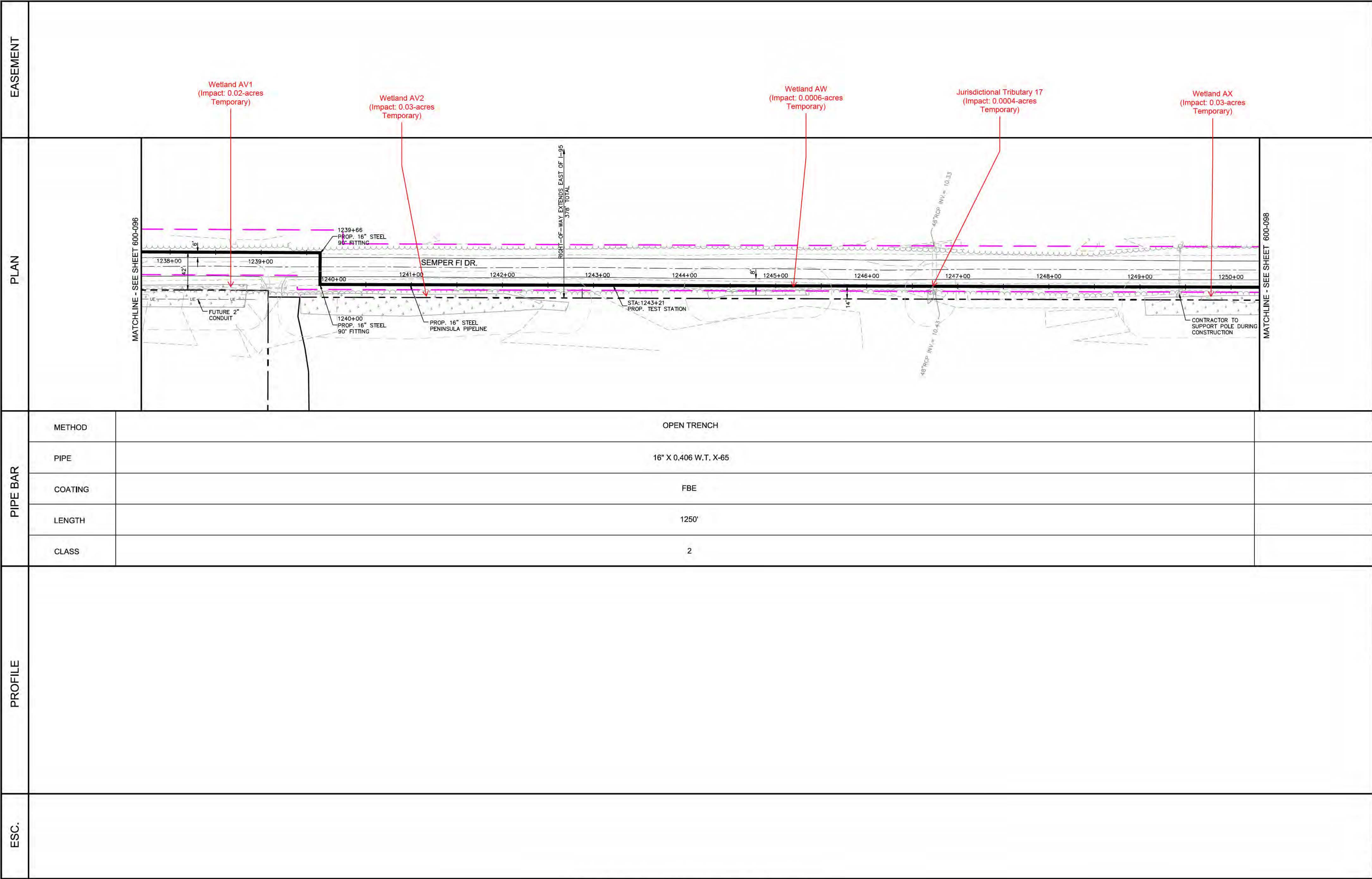
FUTURE MILLS CREEK PRESERVE PHASE 1 PROJECT 100% DESIGN UTILITIES SHOWN ON SEMPER FI DR

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL									
REVISION:				DATE:	DRAWN BY:	CHECKED BY:	ENGINEER:	CLIENT:	PROJECT NAME:
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									DATE: 4/23/2019
									SCALE (H): AS SHOWN
									SCALE (V): AS SHOWN
									DRAWN BY: AK
									DESIGNED BY: MA
									CHECKED BY: RC
							SEAL:		
							90% PLANS		KHA PROJECT NUMBER: 143797004
									DRAWING NUMBER: 600-096
									SHEET INDEX: 104 OF 142





**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF-WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- UGT
- W
- RW
- G
- FDC
- UK
- TELECOMMUNICATIONS
- SUBSURFACE WATER
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- SUBSURFACE FIBER OPTIC
- CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

GRAPHIC SCALE IN FEET

0 25 50 100

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

FUTURE MILLS CREEK PRESERVE PHASE 1 PROJECT 100% DESIGN UTILITIES SHOWN ON SEMPER FI DR

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ENGINEER:

**Kimley»Horn**

189 SOUTH ORANGE  
SUITE 1000  
ORLANDO, FLORIDA 32801  
TEL: (407) 427-1685

CLIENT:

**PENINSULA PIPELINE**

PROJECT NAME:

CALLAHAN PIPELINE 16" TRANSMISSION MAIN

SHEET TITLE:

PLAN & PROFILE

DATE:

4/23/2019

SCALE (H):

AS SHOWN

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MA

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RC

SEAL:

90%  
PLANS

KHA PROJECT NUMBER:

143797004

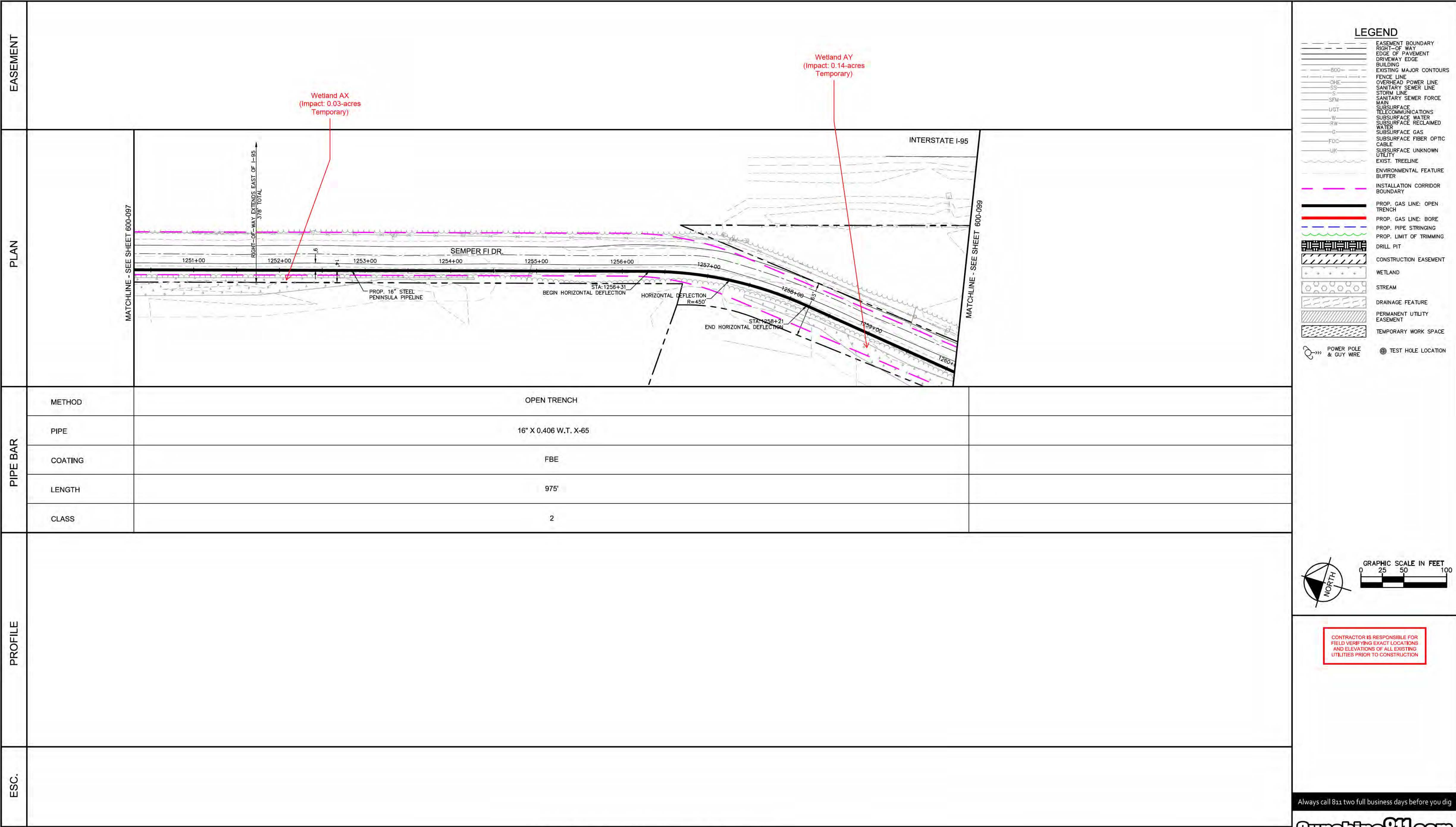
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600-097

SHEET INDEX:

105 OF 142





SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL										SunshineFL.com 																													
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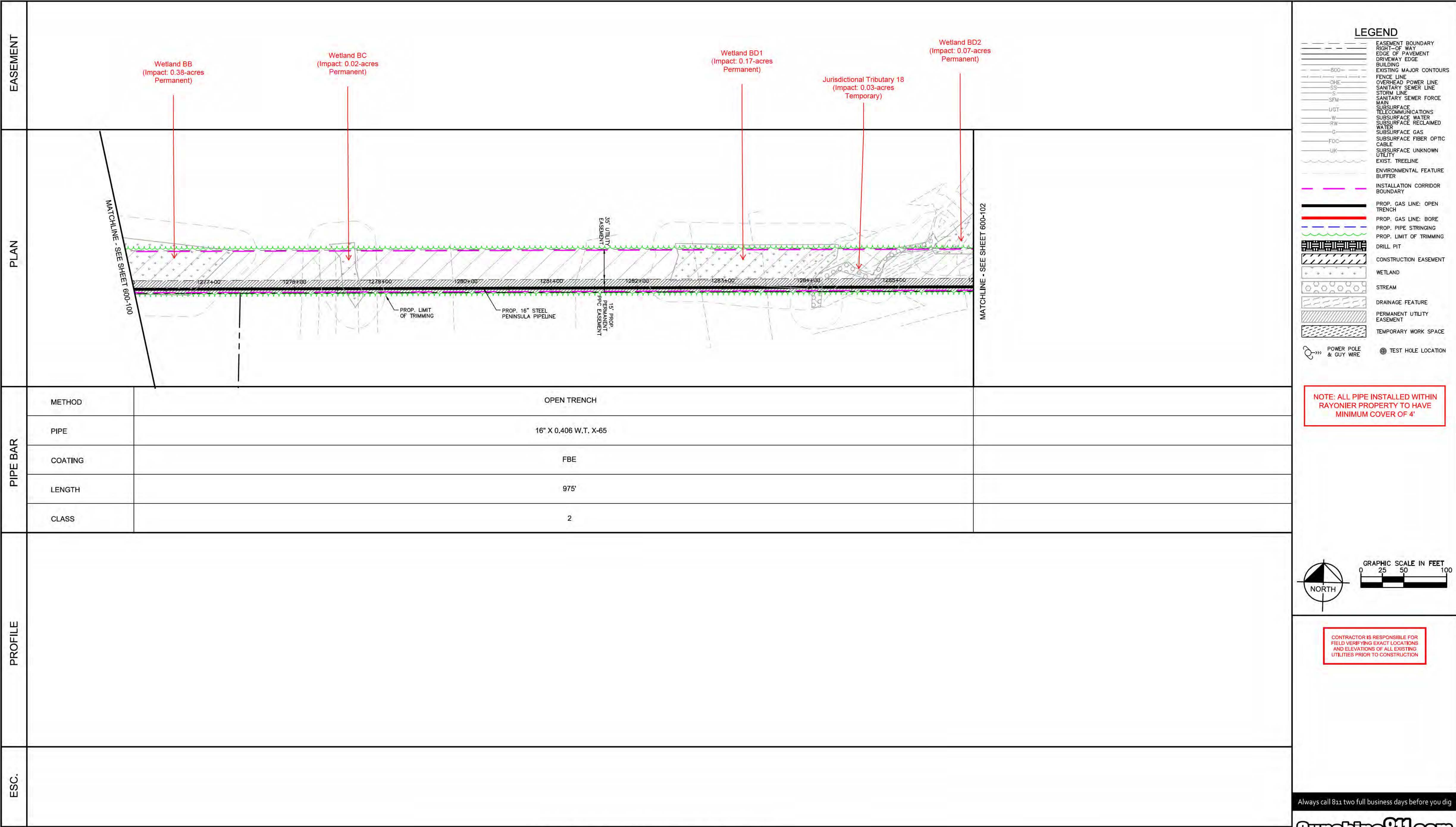











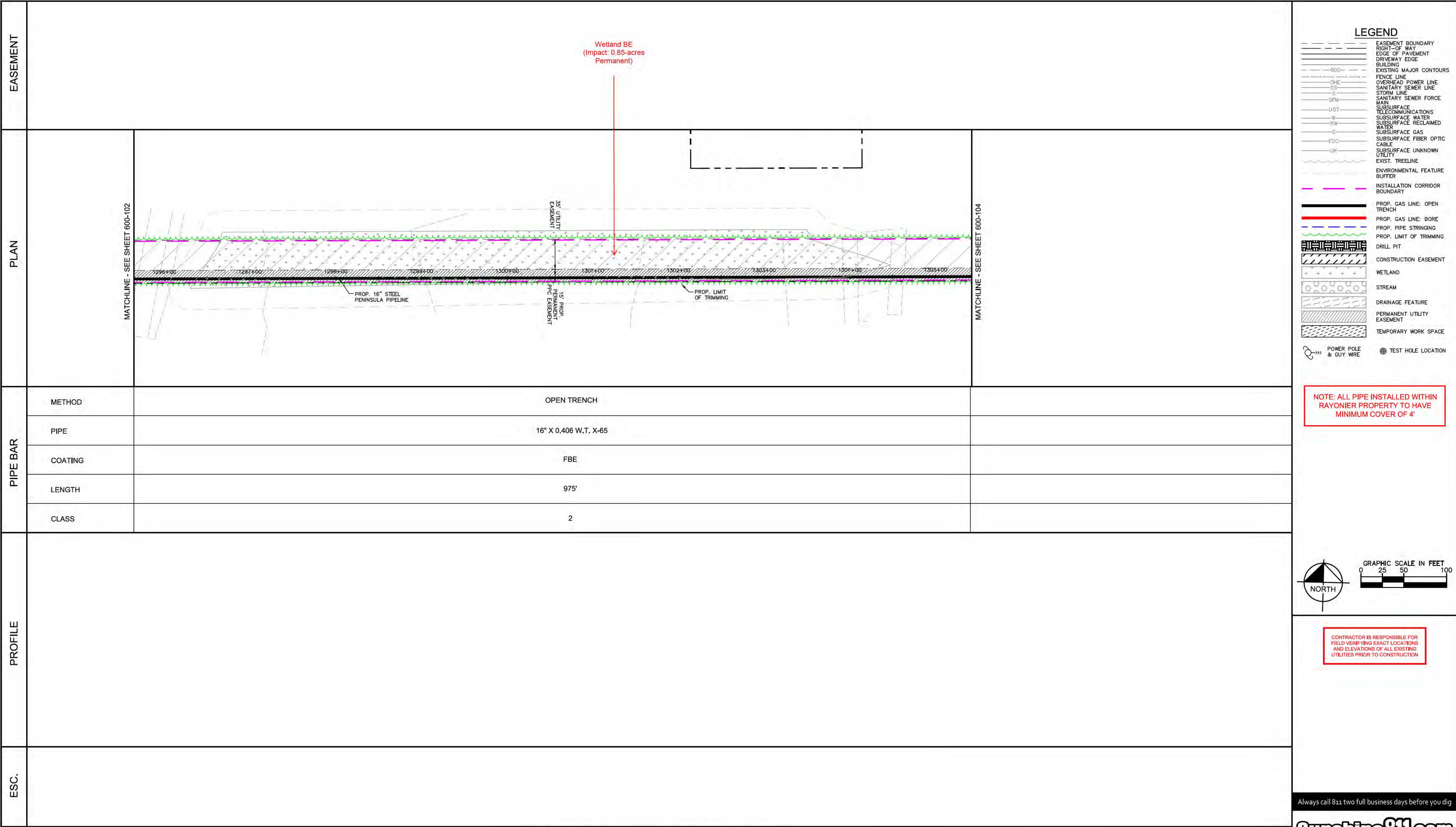


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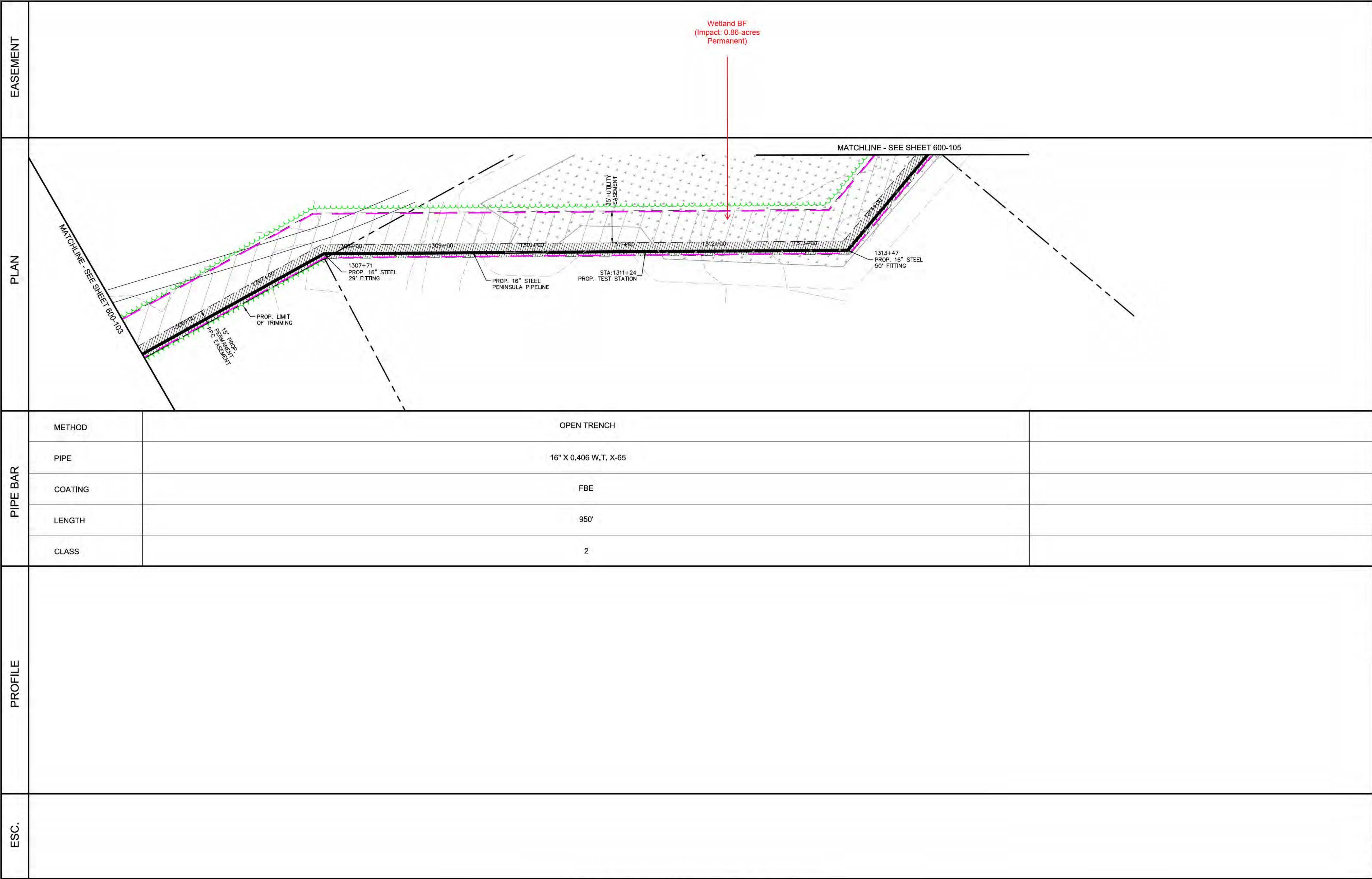












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- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC CABLE
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- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

**NOTE: ALL PIPE INSTALLED WITHIN RAYONIER PROPERTY TO HAVE MINIMUM COVER OF 4'**

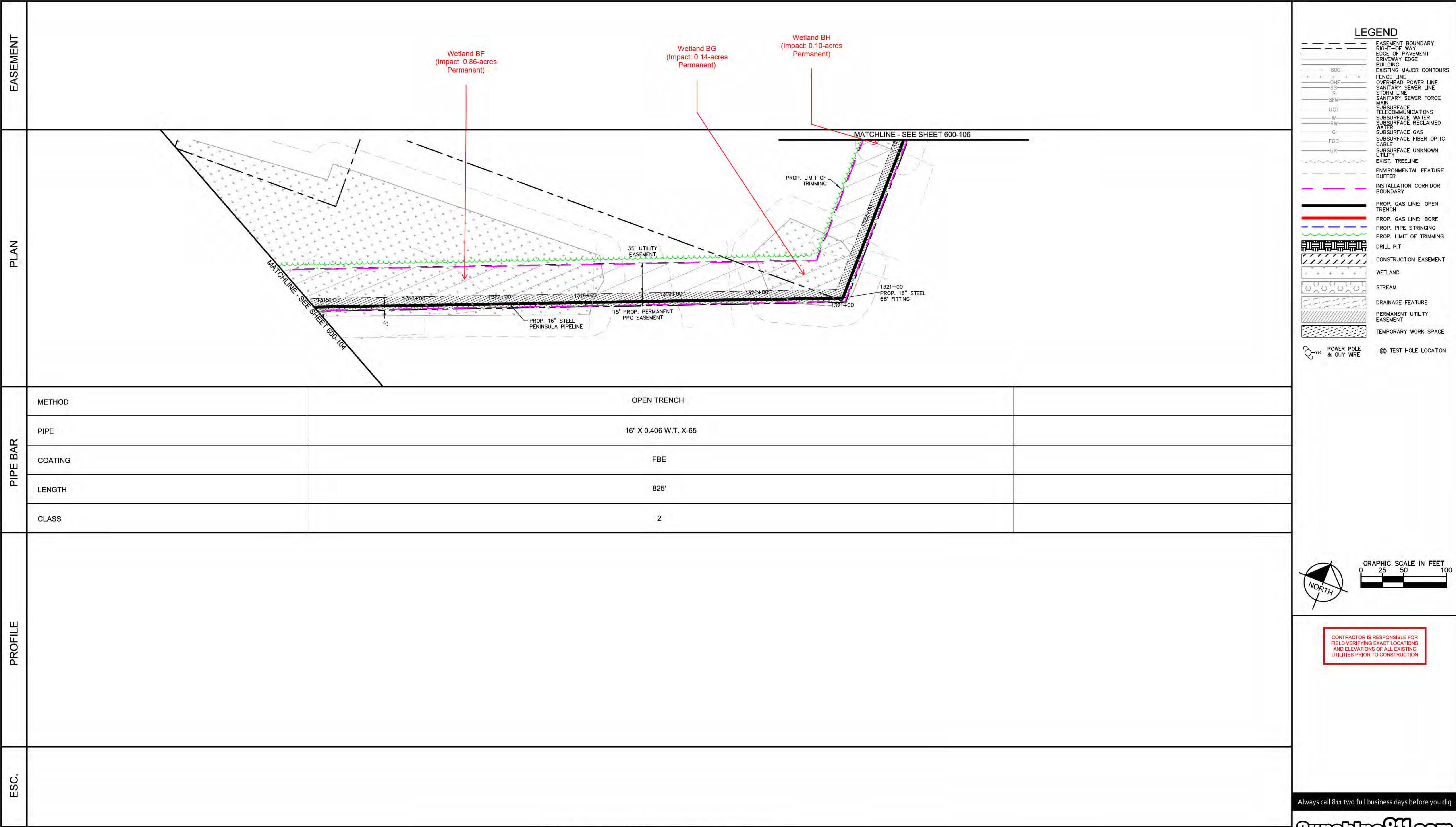
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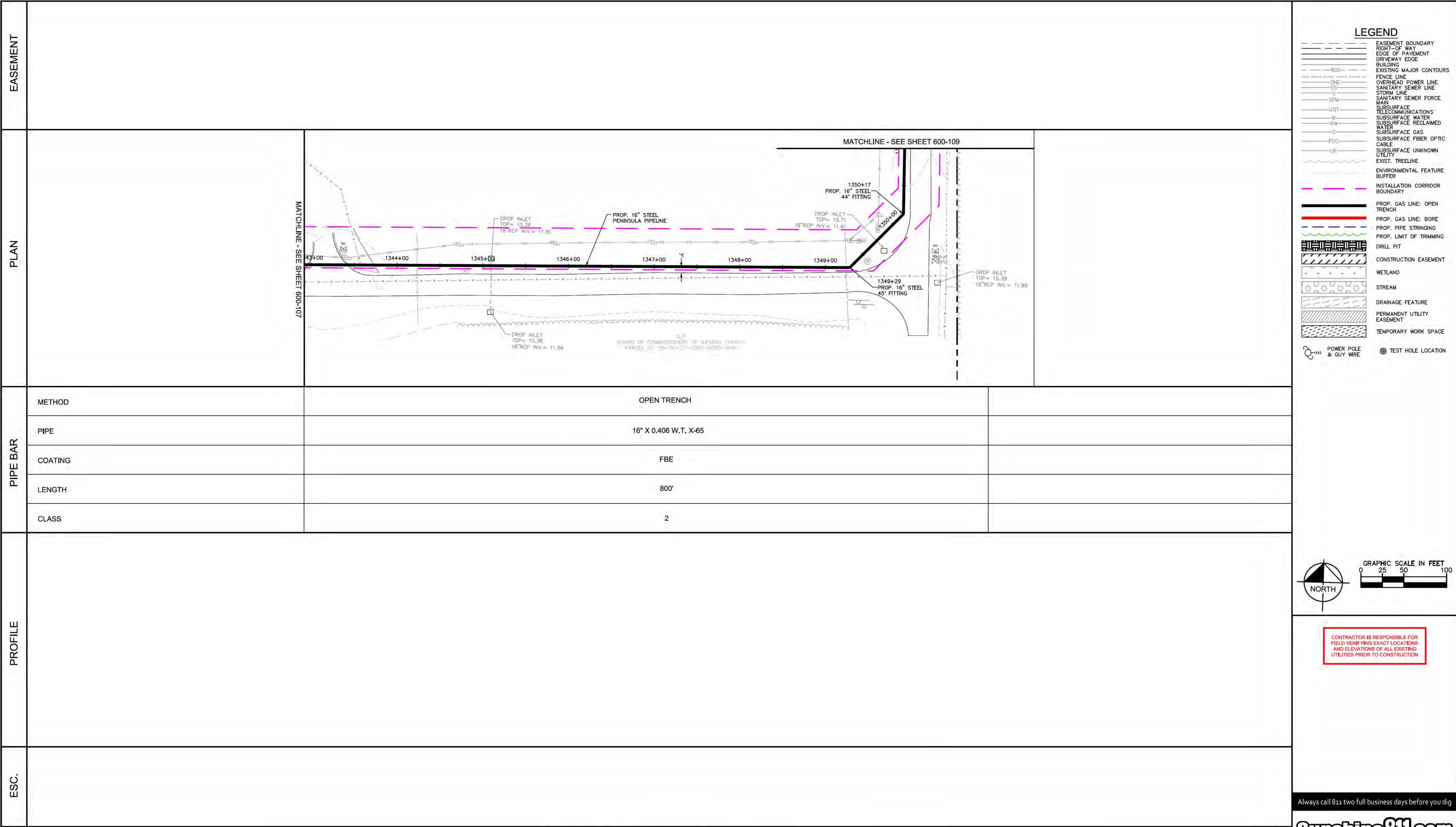












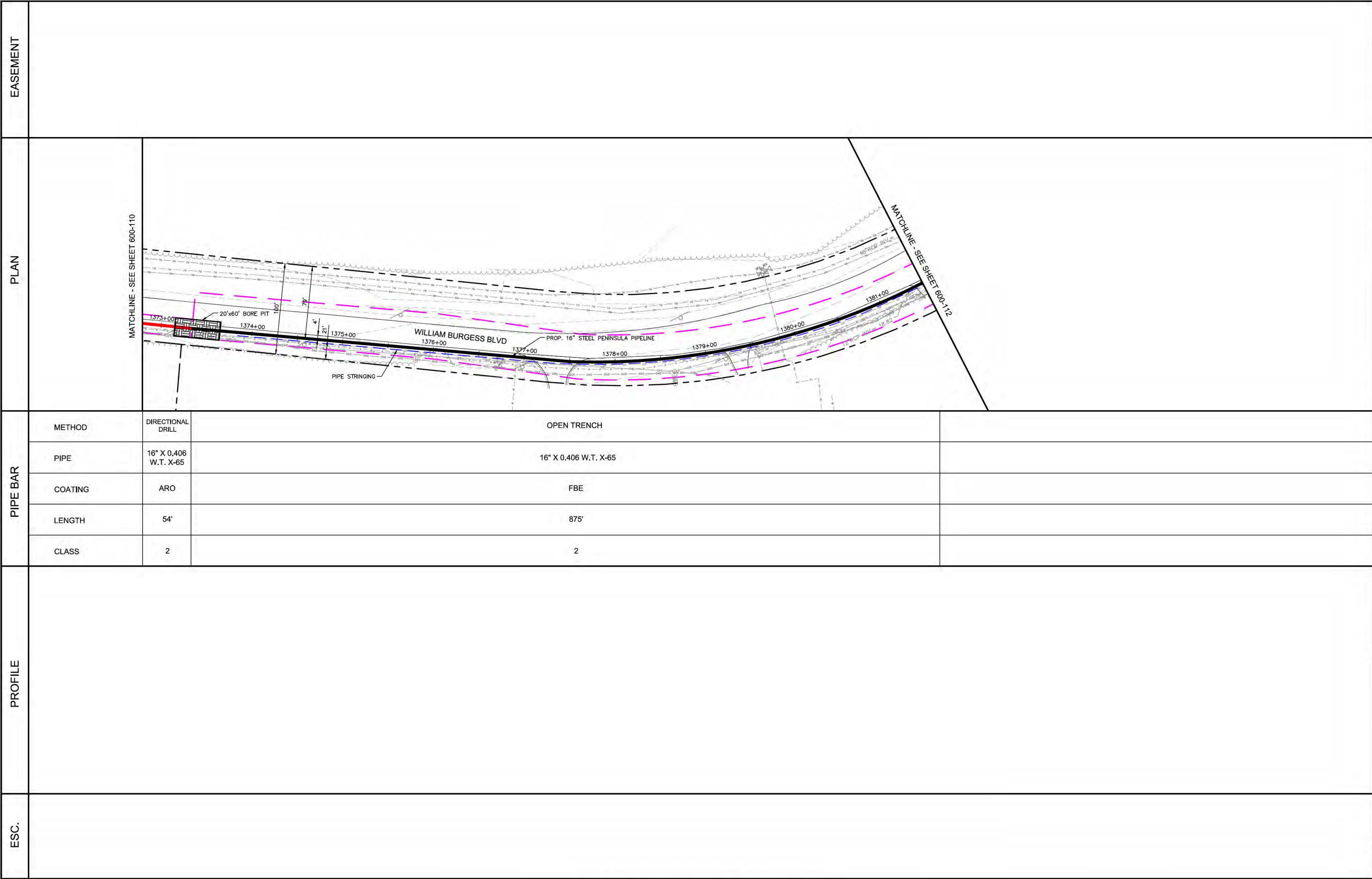












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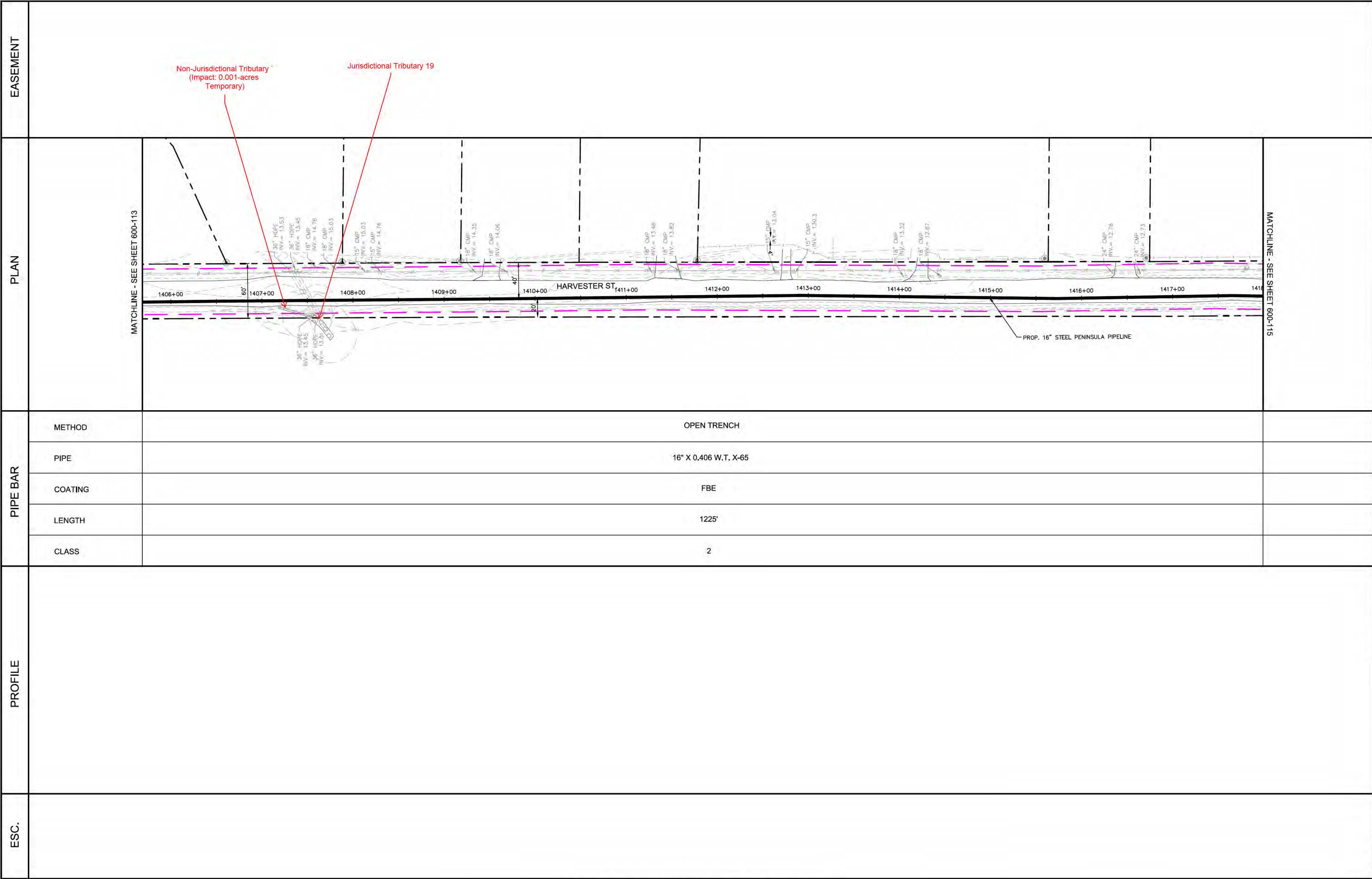












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0 25 50 100

CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXACT LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION

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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL									
REVISION:				DATE:	DRAWN BY:	CHECKED BY:	ENGINEER:		
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							PENINSULA PIPELINE		
							CLIENT:		
							PROJECT NAME:		
							CALLAHAN PIPELINE 16" TRANSMISSION MAIN		
							SHEET TITLE:		
							PLAN & PROFILE		
				DATE:	4/22/2019	SCALE (H):	AS SHOWN	SCALE (V):	AS SHOWN
				DRAWN BY:	AK	DESIGNED BY:	MA	CHECKED BY:	RC
							SEAL:		
							90% PLANS		
							KHA PROJECT NUMBER:		
							143797004		
							DRAWING NUMBER:		
							600-114		
							SHEET INDEX:		
							122 OF 142		

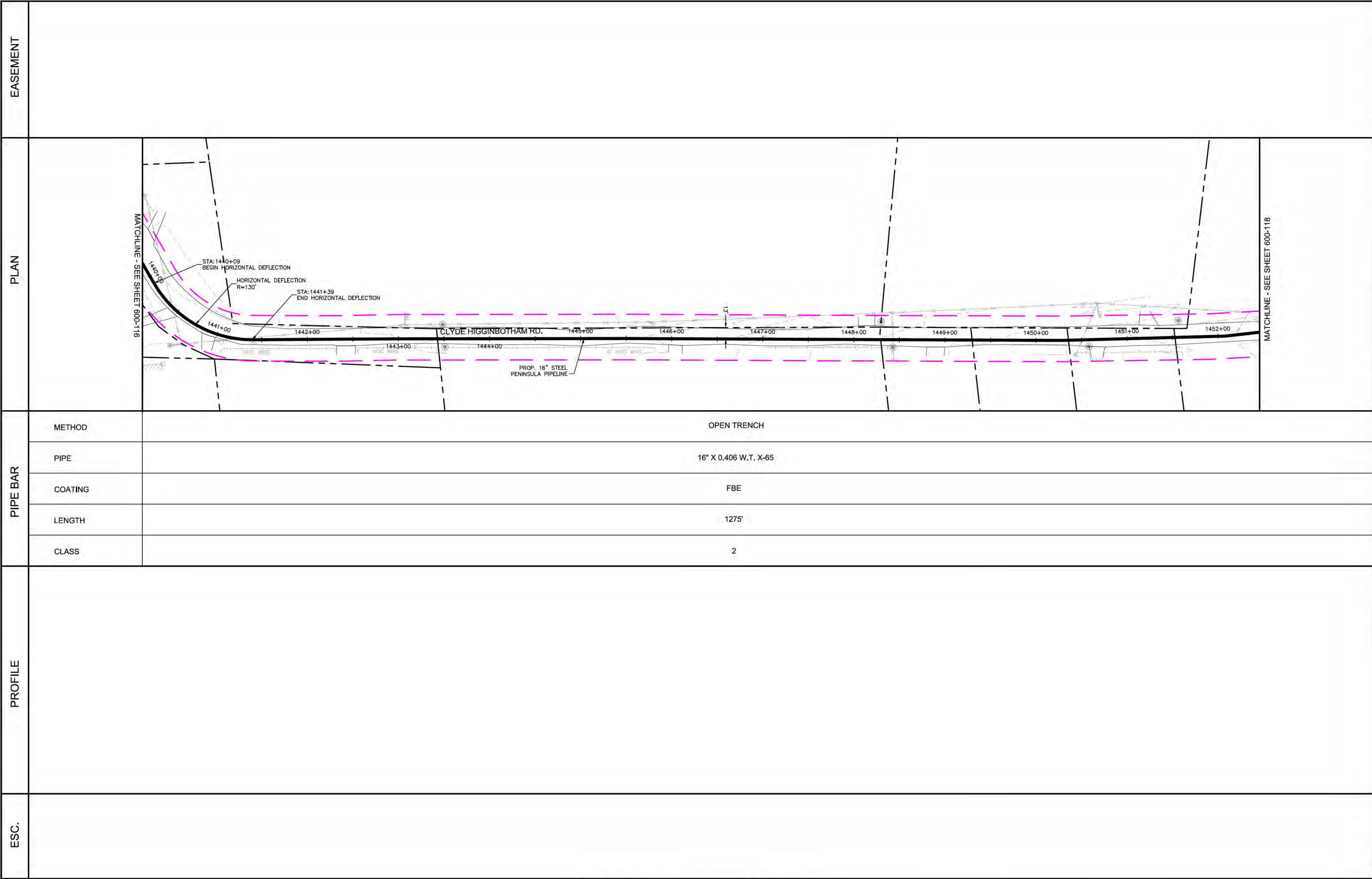








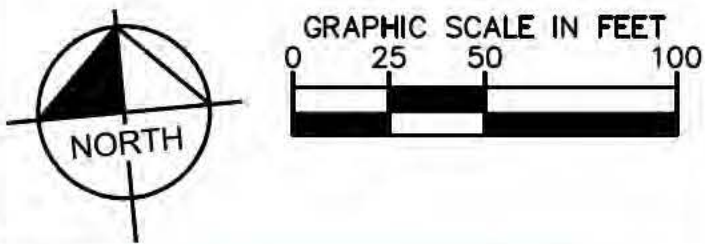




**LEGEND**

- EASEMENT BOUNDARY
- RIGHT-OF WAY
- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
- FENCE LINE
- OVERHEAD POWER LINE
- SANITARY SEWER LINE
- STORM LINE
- SANITARY SEWER FORCE MAIN
- SUBSURFACE TELECOMMUNICATIONS
- SUBSURFACE WATER
- SUBSURFACE RECLAIMED WATER
- SUBSURFACE GAS
- SUBSURFACE FIBER OPTIC
- CABLE
- SUBSURFACE UNKNOWN UTILITY
- EXIST. TREELINE
- ENVIRONMENTAL FEATURE
- BUFFER
- INSTALLATION CORRIDOR BOUNDARY
- PROP. GAS LINE: OPEN TRENCH
- PROP. GAS LINE: BORE
- PROP. PIPE STRINGING
- PROP. LIMIT OF TRIMMING
- DRILL PIT
- CONSTRUCTION EASEMENT
- WETLAND
- STREAM
- DRAINAGE FEATURE
- PERMANENT UTILITY EASEMENT
- TEMPORARY WORK SPACE
- POWER POLE & GUY WIRE
- TEST HOLE LOCATION

NOTE: RIGHT-OF-WAY AND EASEMENT INFORMATION TO BE VERIFIED



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SCALE: 1"=50' HORIZONTAL, 1"=5' VERTICAL									
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DATE: 4/23/2019 SCALE (H): AS SHOWN SCALE (V): AS SHOWN DRAWN BY: AK DESIGNED BY: MA CHECKED BY: RC				SHEET TITLE: <b>PLAN &amp; PROFILE</b>				SEAL: <b>90% PLANS</b>	
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DATE: DRAWN BY: CHECKED BY:				SHEET INDEX: <b>125 OF 142</b>					

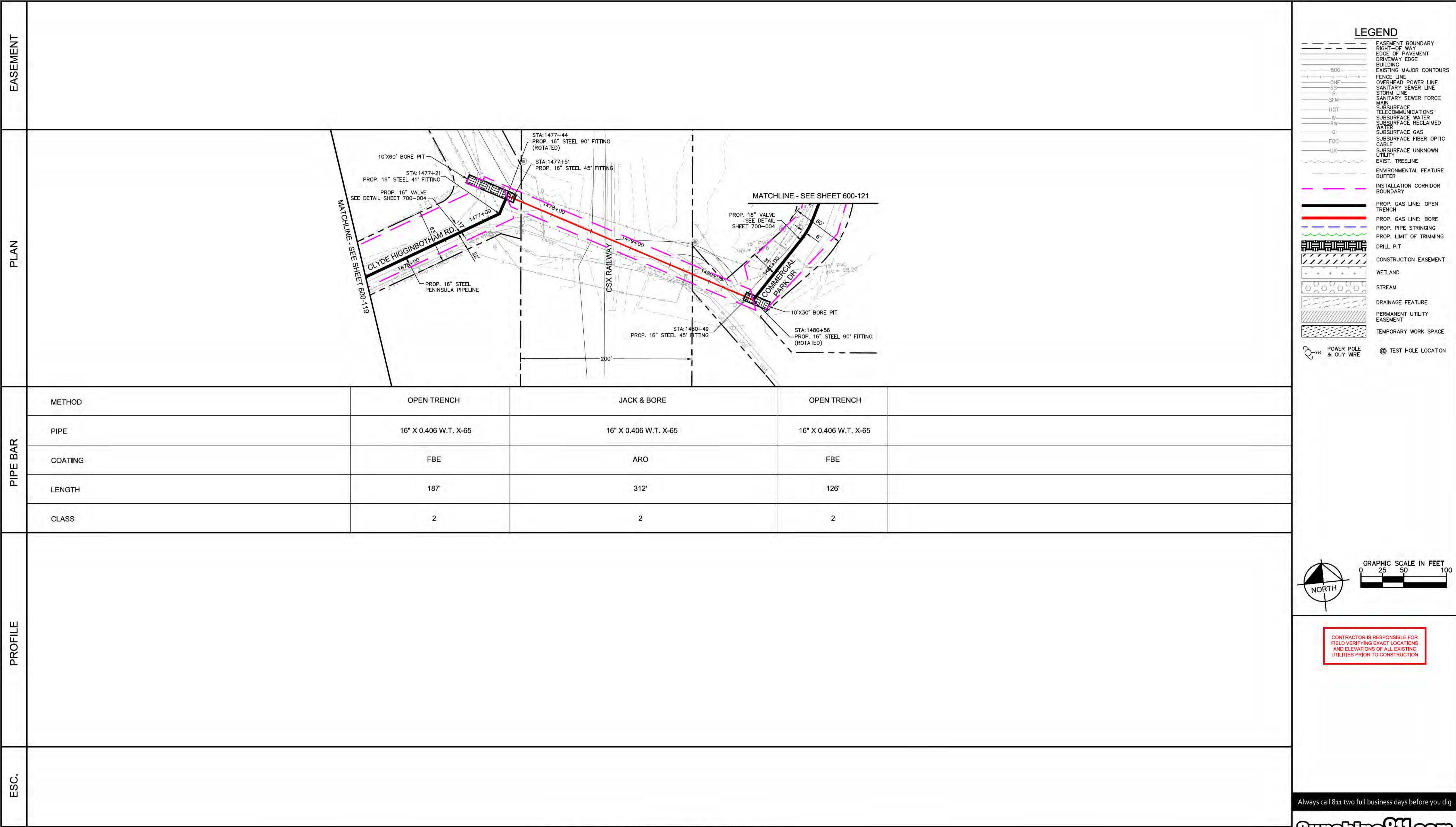




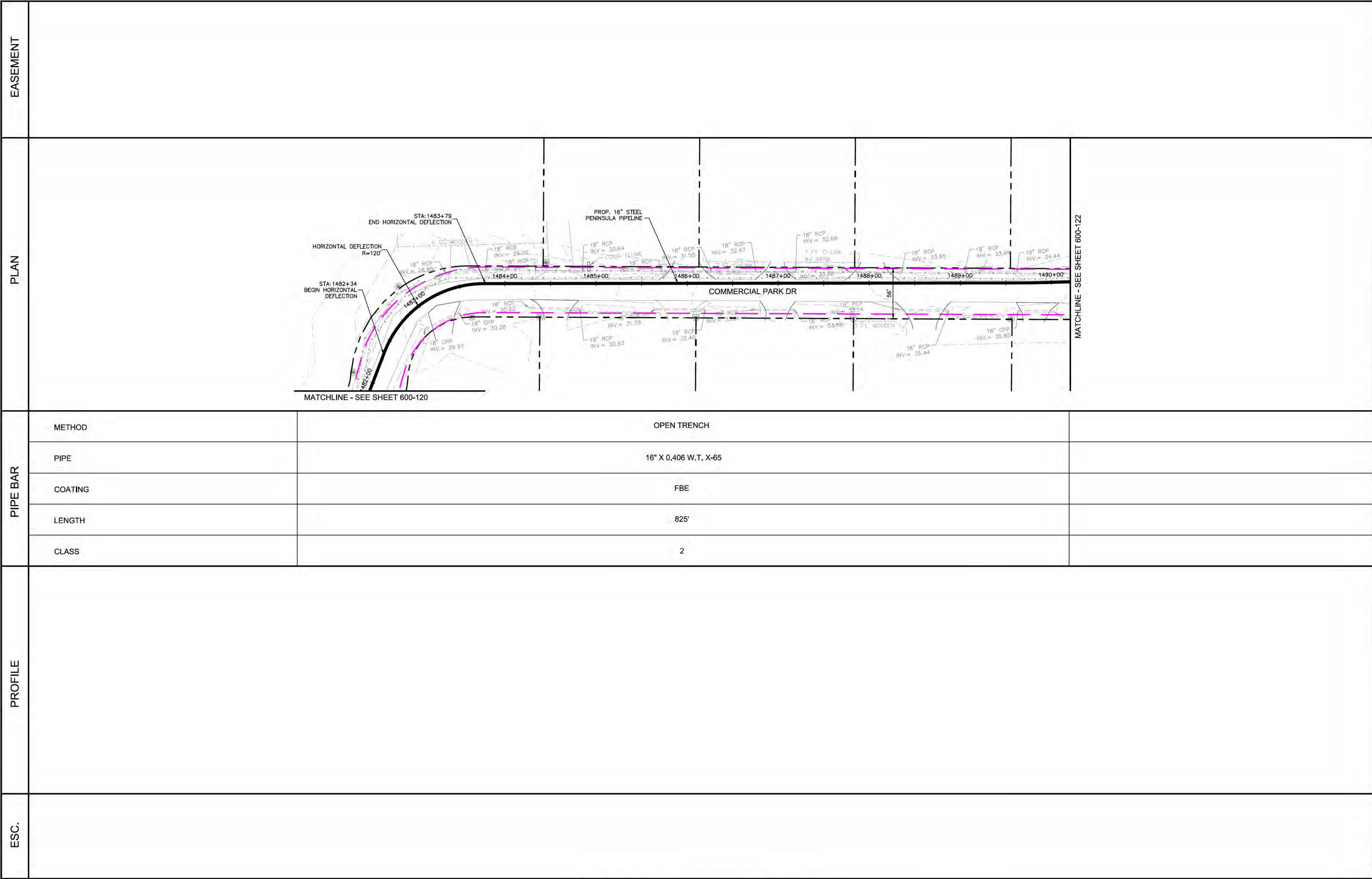












**LEGEND**

- EASEMENT BOUNDARY
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- EDGE OF PAVEMENT
- DRIVEWAY EDGE
- BUILDING
- EXISTING MAJOR CONTOURS
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