Loxahatchee River District Island Country Estates Low Pressure Force Main System

Addendum Number 2 August 30, 2019

This addendum is issued as a result of additional clarifications regarding the project. The following clarifications and modifications are hereby made to the bidding documents for the above referenced project.

Acknowledge receipt of the addendum by inserting its number and date in Article 2 Item No. 12 of the bid. Failure to do so may subject the bidder to disqualification.

NEW BID DEADLINE

1. The bid deadline is hereby changed to October 3, 2019 at 2:00 pm. Any questions of clarifications must be submitted in writing to either Christine Miranda at Christine.miranda@holtzconsulting.com or Kaitlin Wood at Kaitlin.wood@holtzconsulting.com by close of business Wednesday, September 25, 2019 (5 p.m.) for inclusion in addendum prior to the revised bid opening date.

CHANGES TO CONTRACT DOCUMENTS

- **Item 2-1 ATTACHED** to this sheet are the mandatory Pre-Bid Meeting Minutes.
- **Item 2-2 REPLACE** the originally issued drawing set with the attached drawings.
- **Item 2-3 REPLACE** the originally issued bid form with the attached bid form.
- Item 2-4 REPLACE originally issued Specification Section 01200 with the attached.
- Item 2-5 The Engineer's estimate for this project has been REVISED to \$590,000.
- **Item 2-6** The following are the questions asked during the pre-bid meeting or subsequently thereafter and corresponding answers for each question.

RESPONSES TO BIDDER'S QUESTIONS

1. Is locate wire required from beginning to end?

No, locate wire is not required.

2. The area is very wet and low lying which could cause problems for installation if there are hurricanes/storms. Will time accommodations be made in the event of storm events?

The District and Engineer will work to accommodate the Contractor's schedule in the event that large storm events cause issues for installation.

3. Boring vs. HDD: If Contractor elects to directional drill entire neighborhood, how will this impact the pipe sizing?

If project is installed via open cut, pipe will be 2" PVC everywhere with 3" HDPE installed at bores beneath roadways. If project is entirely installed via directional drill, piping installed will be a combination of 2-3" HDPE.

4. Will LRD be providing any sort of support for the tie in to the existing main?

LRD will provide assistance with shutdown of the main. However, they will not provide any sort of vac truck assistance.

5. In what line item does Contractor get compensated for sod restoration?

Cost of sod restoration shall be included in unit price of pipe.

6. How thick is the existing asphalt that is being milled? If at any point the 1.5" milling is performed and rock is exposed, will the Contractor be required to pave within 24 hours?

The existing asphalt is 1" thick. The drawings have been revised to reflect milling the 1" of existing asphalt and replacement with 1.5" of SP-12.5 asphalt. Pavement resurfacing should commence directly after milling operations are complete in the neighborhood, however due to the time to mill the entire neighborhood this time frame may be longer than 24 hours.

7. Does Pay Item No. 6 include all fittings for the force main?

Yes. Pay item No. 6 is inclusive of all fittings required for complete successful installation of the force main. No additional pay item will be included for payment.

8. For the sections of piping that are directional drilled (HDPE), will the contractor be required to use compression fittings or fused fittings?

Fused HDPE fittings will be required. For services, a 2" x 2" x 1.5" HDPE tee with a 16" stub-out shall be required. The fused tee shall attach to the service lateral with a brass ball valve with pack joint x pack joint coupling B777-XXX-NL style with stainless steel stiffener. This shall be required at all isolation and service valves.

9. There is a property on Canaan Way that shows a service located near a preservation easement. Is this correct? Will the Contractor need to work within the Preservation easement?

The location of the terminus of the service will be outside of the preservation easement, such that the Contractor will not need to work within the preservation easement.

10. The subject project calls for 2-1/2" HDPE Directional Bores. My supplier is telling me that 2-1/2" HDPE is not made. Please clarify if you want 2" or 3" HDPE.

All directional bores will be constructed utilizing 3" HDPE.

11. Regarding the asphalt paving spec; will the District accept a TLC in lieu of a TLA?

Asphalt types and mixtures must be in accordance with Martin County Standards and Specifications.

12. Please confirm striping is to be calculated per existing layout

Striping will be per the existing layout. No new additional striping is proposed for the project.

13. Technical specifications, sheet 01200-10 shows "milling and resurfacing areas shall not overlap areas included in the Asphalt Pavement Replacement bid item. Please confirm this sentence is to be disregarded, or clarify where is the reference "Asphalt Pavement Replacement" to be installed.

The drawings have been revised and now reflect specific areas in which point repairs of the existing asphalt and base will be removed and replaced. Please refer to the revised drawings.

END OF ADDENDUM NO. 2



Prebid Meeting Agenda

Client: Loxahatchee River District

Project: Island Country Estates Low Pressure Force Main System

Date: 07/23/2019 **Time:** 2:00 PM

Engineer: Holtz Consulting Engineers, Inc.

- 1. Introduction and Sign-In:
- 2. Bid Opening August 6, 2019 at 2:00 PM.
- 3. Questions asked at today's pre-bid meeting will be recorded and will be responded to in writing in an addendum unless the questions can be answered directly by way of reference to specific specification section or plan sheet.
- 4. Award will be made to the lowest responsive and responsible bidder submitted within budget.
- 5. Summary of work (per Section 01000):
 - A. Installation of approximately 5,500 linear feet of 2-inch PVC low-pressure force main (or a combination of 2-inch and 3-inch HDPE) with service connections, cleanouts, valves and other appurtenances per District standards. This will be installed via either open-cut or horizontal directional methods along SE Country Estates Way, SE Peach Way, SE Canaan Way, and SE Red Apple Lane.
 - B. Connection of proposed low-pressure force main to the existing 2.5-inch low pressure force main located at the west side of Loxahatchee River Road.
 - C. Mill and resurfacing of all paved areas in the development.
 - D. Restoration of all affected areas to existing conditions or better.
 - E. Testing and startup services.
 - F. Restoration of all areas affected by construction activities to existing conditions or better.

- 6. Mandatory that all contractors planning to submit Bids on this Project attend this meeting or listen to the complete tapes of the prebid conference and sign a certification attesting that they have listened to and understood the contents of the meeting as recorded. The tapes will be available for listening at the District's Engineering Office at 2500 Jupiter Park Drive, Jupiter, Florida 33458, between the hours of 9:00 a.m. and 5:00 p.m. local time, Monday through Friday (except legal holidays) through and including August 6, 2019.
- 7. Bids are to be submitted to the office of the District same location as this meeting 2500 Jupiter Park Drive, Jupiter, FL 33458. Bids will be opened in the Board Room.
- 8. All blanks on the Bid Forms must be printed in blue or black ink or typed.
- 9. All Addenda must be acknowledged.
- 10. A single Bid shall be submitted for all portions of the Work.
- 11. Bid requirements:
 - 1. Instructions to Bidders Article 1
 - 2. Proposal Article 2
 - Bid form
 - Article 2a- Questionnaire
 - List of subcontractors. If work is to be self-performed, please indicate so.
 - Sworn Statement on Public Entity Crimes
 - Condensed Financial Statement
 - 3. Bid Security Article 3
- 12. No separate line items for sod, trees and shrubbery, irrigation, etc. restoration costs. Any restoration costs are to be included in the unit price for the low- pressure force main. No separate payment shall be made for these items. Roadway Items have their own line items.
- 13. Mobilization and Demobilization line item shall not exceed 10% of the total bid.
- 14. Provide public construction bonds in the full amount of the contract price.
- 15. Adhere to all requirements included within the permits from Florida Department of Environmental Protection (FDEP) and Martin County Engineering. Contractor is responsible for obtaining a Martin County ROW permit for the tie-in on Loxahatchee River Road. A copy of the FDEP permit is provided in the Appendix.



17. Project Schedule:

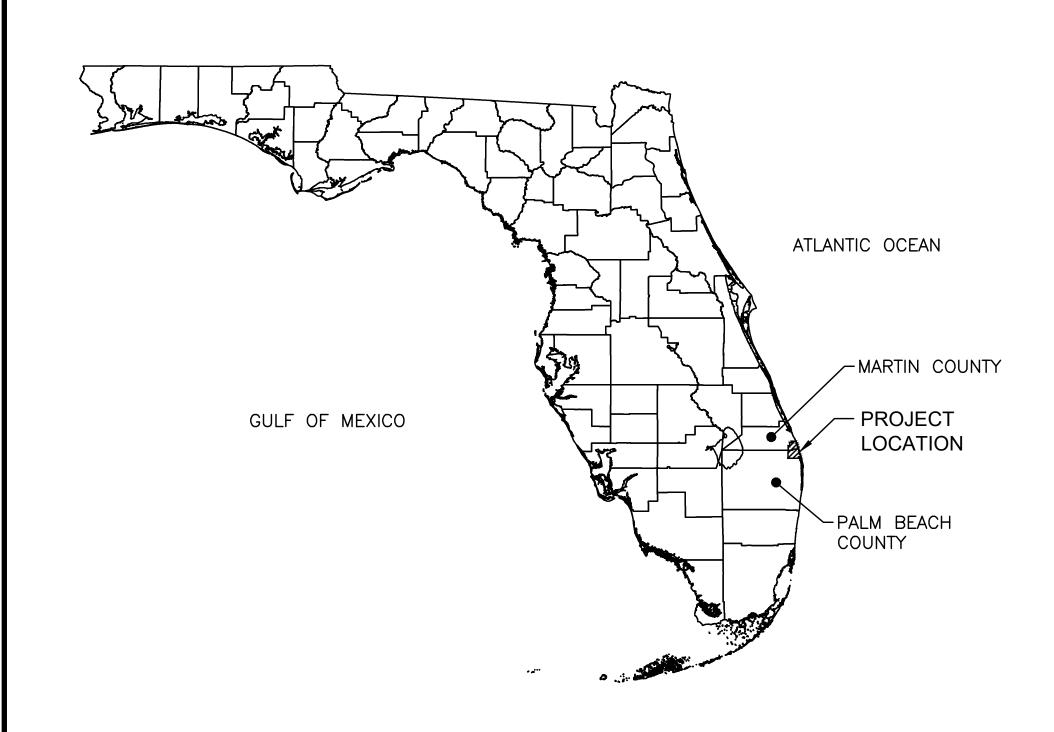
- A. Contract time is 120 calendar days to reach substantial completion and 65 calendar days from substantial to reach final completion. Substantial completion is considered the point at which all tasks necessary to receive FDEP clearance to place the system into service have been completed.
- B. Liquidated damages are \$100 per day for failure to meet the substantial completion and \$75 per day for failure to meet final completion milestones.
- 18. Any questions or clarifications must be submitted in writing to HCE by close of business Friday, July 30, 2019 by 5 p.m. for inclusion in addendum.
- 19. Current LRD standards require the use of a live-wire tracing system during horizontal directional drilling operations. Due to the size of the proposed low-pressure force main, this method of tracking will not be required on this project.
- 20. "Missile" or "Mole" type installation methods are not permitted to be used on this project as an alternative to horizontal directional drilling.
- 21. The Engineering Construction Cost Estimate is approximately \$512,000.



ISLAND COUNTRY ESTATES LOW PRESSURE FORCE MAIN

PREPARED FOR LOXAHATCHEE RIVER DISTRICT

MARTIN COUNTY, FLORIDA SECTION 21, TOWNSHIP 40S, RANGE 42E



ISLAND COUNTRY ESTATES Related Relate

VICINITY MAP

NTS

SHEET INDEX

	SHEET INDEX
SHEET NO.	SHEET TITLE
G-1	COVER SHEET
G-2	LEGEND
G-3	KEY SHEET
C-1	PLAN SHEET - SE CANAAN WAY
C-2	PLAN SHEET - SE COUNTRY ESTATES WAY - STA. 6+40 TO STA. 14+0
C-3	PLAN SHEET - SE COUNTRY ESTATES WAY & SE PEACH WAY
C-4	PLAN SHEET - SE COUNTRY ESTATES WAY & SE RED APPLE LANE
C-5	PLAN SHEET - SE COUNTRY ESTATES WAY - STA. 28+00 TO STA. 34+
C-6	PLAN SHEET - SE PEACH WAY
C-7	PLAN SHEET - SE RED APPLE LANE - STA. 50+80 TO STA. 56+60
C-8	PLAN SHEET - SE RED APPLE LANE - STA. 56+60 TO STA. 61+94
D-1	DETAILS
D-2	DETAILS
D-3	DETAILS

LOXAHATCHEE RIVER DISTRICT GOVERNING BOARD

CHAIRMAN
VICE CHAIRMAN
TREASURER
SECRETARY
ASST. SEC'Y/TREAS.

DR. MATT H. ROSTOCK STEPHEN B. ROCKOFF GORDON M. BOGGIE HARVEY M. SILVERMAN JAMES D. SNYDER

FOR BIDDING PURPOSES ONLY NOT FOR CONSTRUCTION



CIVIL SYMBOLOGY **GENERAL ABBREVIATIONS LINETYPES** PIPING SYMBOLOGY Abandon or Abandoned Maximum 0+00 **EXISTING*** PROPOSED* CONCENTRIC REDUCER ACP Asbestos Cement Pipe Mailbox CONSTRUCTION BASE LINE ADD'L **MECH** Mechanical **Additional** CABLE TV ---- CATV --- CATV ---ECCENTRIC REDUCER Manhole DIRECTION OF FLOW Aluminum AL, Alum Minimum **APPROX** CENTER LINE **Approximate** x 19.5 ——||—— UNION ARV Air Release Valve Miscellaneous **EXIST. SPOT ELEVATION** Mechanical Joint ——— DR ———— DR ——— ASP, Asph Asphalt BALL VALVE (BV) **/-0.0** PROP. SPOT ELEVATION **EASEMENT Backflow Preventer** Nail and Disk —— GATE VALVE (GV) **♦** EL. 20.90 **BENCHMARK** BFV **Butterfly Valve** Number ELECTRIC _____ E ____ E ____ BUTTERFLY VALVE (BFV)/ NTS Not to Scale B/L Base Line ODOR CONTROL DAMPENER FENCE NEW CONTOUR ELEV. 79.5 BLDG Building ____ x ____ x ____ 00,0/0 On Center Benchmark PLUG VALVE (PV) FIBER OPTIC — - - FOC - - - FOC — —— — FOC — — FOC — $-\bigcirc -\bigcirc -\bigcirc-$ BO Outside Diameter Blowoff EXIST. UTILITY POLES Bottom of Pipe BOP Overhead Wire POWER TELEPHONE LIGHT FIRE MAIN —— FIRE ——— FIRE ——— CHECK VALVE (CV) ORB Official Records Book Cable Television CATV FORCE MAIN ——— FM ———— FM ——— NEW UTILITY POLES Plat Book PLUG/CAP CB Catch Basin TELEPHONE LIGHT UTILITY POWER CO Profile Grade Line Cleanout Polyvinyl Chloride/Polyvinyl Chloride Pipe PVC CL Center Line CLEAN OUT **GUARDRAIL** CLF ______ PIPING CONFLICT LOCATION Chain Link Fence CIP Reinforced Concrete Cast Iron Pipe / Cast in Place IRRIGATION ----- IRR ------ IRR -----TAPPING VALVE **RCP** Reinforced Concrete Pipe CMP Corrugated Metal Pipe SP1 **RCW** CONC Reclaimed Water Concrete OVERHEAD UTILITIES —— ОНU ——— ОНU ——— LINE STOP RED Reducer CONST Construct/Construction SAMPLE POINT REINF RAILROAD TRACK Reinforce/Reinforced HOSE BIBB \longrightarrow Restrained Joint Drainage Easement RAW WATER MAIN ----- RWM -----Ductile Iron Raw Water Main EXISTING PIPE WATER SURFACE DIP Ductile Iron Pipe R/W,ROW Right of Way RECLAIMED WATER MAIN —— RCW ——— RCW —— EL.48.00 ____ DIA Diameter ———— EXISTING BURIED PIPE Dimensional Ratio/Drainage RIGHT-OF-WAY Slope (FT/FT)/(Rise/Run) DR _____ PROPOSED PIPE DWY Driveway Sanitary 公 SANITARY SEWER ---s--s--s-— - - s - - - s - - - s -SCH/SCHED Schedule FIRE HYDRANT ———— PROPOSED PIPE Elevation Section SANITARY SEWER SERVICE EXIST. ----ss---ss---NEW EOP Edge of Pavement Silt Fence **ESMT** Easement SP Sample Point SILT FENCE —☐— MECHANICAL JOINT —— SF ——— SF ——— EOW Edge of Water Existing Sanitary Sewer EXIST. MANHOLE, DRAINAGE STRUCTURE STORM DRAINAGE EX, EXIST --- ST --- ST --- ST -_____st___st___ **TELEPHONE** NEW MANHOLE, DRAINAGE STRUCTURE 0 — — — T — — T — — T — **FDOT** Florida Department of Transportation TBM FLEXIBLE COUPLING Temporary Benchmark FH Fire Hydrant Temporary TOP OF BANK ______ _____ FLEXIBLE COUPLING WITH THRUST TIES FM Force Main TOB Top of Bank TO BE REMOVED/DEMOLISHED TON TOP TOS TYP FND Found Top of Nut TOE OF SLOPE ELBOW UP **FNPT** Female Nominal Pipe Thread Top of Pipe FPL Florida Power and Light TRAFFIC SIGNAL ---TS---TS---TS-----TS----TS---Toe of Slope C- ELBOW DOWN FW Finished Water Typical TURBIDITY BARRIER — TB —— TB — **GPS** Global Positioning System Utility Easement UNKNOWN —— — UNK — — UNK — GV Gate Valve UEC UGE Underground Electric Conduit SECTION/DETAIL SYMBOL ──── TEE UP Underground Electric VACUUM SEWER --- \vee S --- \vee S --- \vee S -Underground Telephone ———— TEE DOWN HDD Horizontal Directional Drill WATER MAIN Unknown _____ wm ____ wm ____ - SECTION LETTER/DETAIL NUMBER **HDPE** High Density Polyethylene WATER SERVICE SECTION ——— WS ———— WS ——— Hydrant 5 ` With (Combined Form) 15 Wood Fence SCALE: WOOD FENCE ID Identification Water Main or Water Meter Invert/Invert Elevation INV Wire Pullbox IRC Iron Rod & Cap Water Treatment Plant IRR Irrigation Water Valve - SECTION LETTER/DETAIL NUMBER * DEPICTS ABOVE GRADE Waste Water Treatment Plant Limited Access Easement * DEPICTS BELOW GRADE --- TEXT Linear Feet Light Pole Lift Station LS SHEET/DRAWING NO. ON WHICH SECTION/DETAIL IS SHOWN Landscape Area SECTION CUT LOW-PRESSURE SYSTEM LEGEND SURVEY ABBREVIATIONS & LEGEND SECTION CUT ON DETAILS SANITARY SEWER SERVICE LOCATION FORM PROVIDED BY HOME OWNER. 8" DIP FORCE MAIN PIPE DESIGNATION (C) = CALCULATED C.B.S. = CONCRETE BLOCK STRUCTURE (W) = WATER SERVICE C.B.S. — CONCRETE BLOCK STRUCTURE C.M.B. = COMMISSIONERS' MINUTES BOOK CMH = CONFLICT MANHOLE CONC. = CONCRETE D.B. = DEED BOOK NOMINAL PIPE DIA.(IN.) -=LANDSCAPE LIGHT PIPE MATERIAL (IF SHOWN) NO LOCATION FORM PROVIDED BY HOME OWNER. =LIGHT POLE FLOW STREAM IDENTIFICATION F.H. = FIRE HYDRANT FND. = FOUND F.P.L. = FLORIDA POWER & LIGHT (IF SHOWN) E =ELECTRIC BOX NOTE: ACTUAL LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR WITH PROPERTY OWNER, LRD STAFF, AND ENGINEER PRIOR TO CONSTRUCTION. =WATER METER I.P. = IRON PIPE INV. = INVERTSymbols: I.R. = IRON RODLB = LICENSE BUSINESS Pounds/Number LP = LIGHT POLE-Ò-=FIRE HYDRANT LS = LICENSE SURVEY Angle (M) = MEASURED MH = MANHOLE Round/Diameter =CATCH BASIN M.H.W. = MEAN HIGH WATERMON. = MONUMENT=CATCH BASIN O.R.B. = OFFICIAL RECORD BOOK (P) = PLAT P.B. = PLAT BOOK = IRRIGATION CONTROL VALVE P.R.M. = PERMANENT REFERENCE MONUMENT T =TELEPHONE R.O.W. = RIGHT-OF-WAYRCP = REINFORCED CONCRETE PIPE =CABLE TV R.P.B. = ROAD PLAT BOOK (S) = SURVEY SLP = STOP LIGHT POLE ())=SANITARY MANHOLE SMH = SANITARY MANHOLE SBTMH = SOUTHERN BELL TELEPHONE MANHOLE =STORM MANHOLE STMH = STORM MANHOLE TB = TRAFFIC BOX =CLEANOUT TLP = TRAFFIC LIGHT POLE NOTE: TV = TELEVISION=SIGN U.E. = UTILITY EASEMENT ELEVATIONS SHOWN ARE BASED ON NORTH AMERICAN VERTICAL WP = WOOD POLE WUP = WOOD UTILITY POLE WV = WATER VALVE DATUM OF 1988 (N.A.V.D. 88). TO CONVERT FROM NORTH =YARD DRAIN AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88) TO NATIONAL =WOOD POWERPOLE GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D. 29) ADD 1.50 FEET. Know what's below. Call before you dig. \smile =ANCHOR

LOXAHATCHEE RIVER DISTRICT ISLAND COUNTRY ESTATES LOW PRESSURE FORCE MAIN

Date: 12-28-18

Design By: CM

Scale: AS NOTED

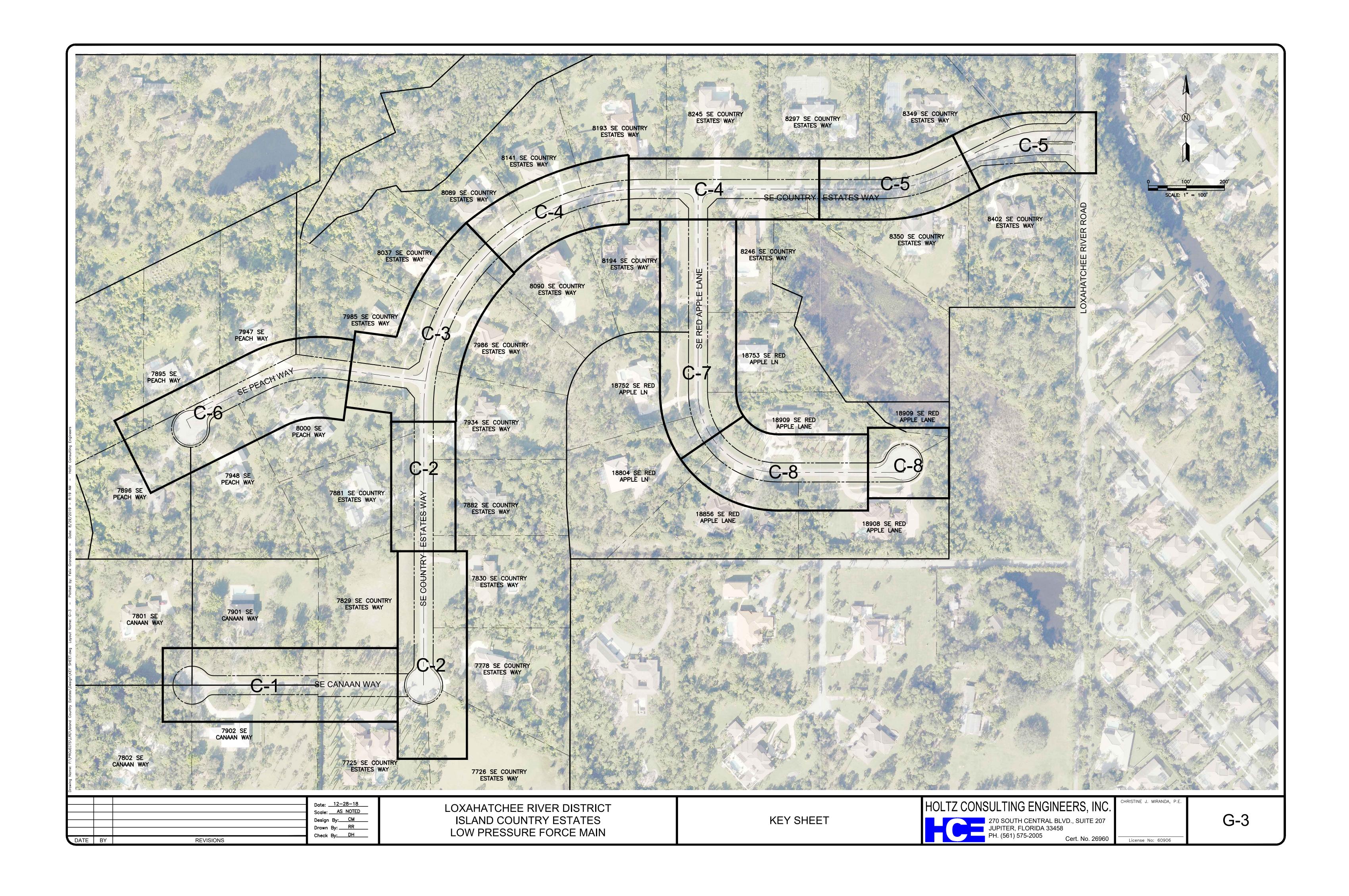
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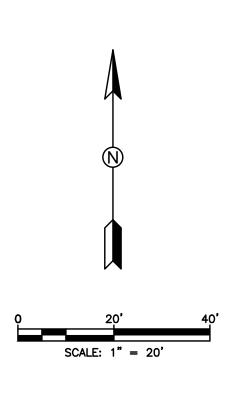
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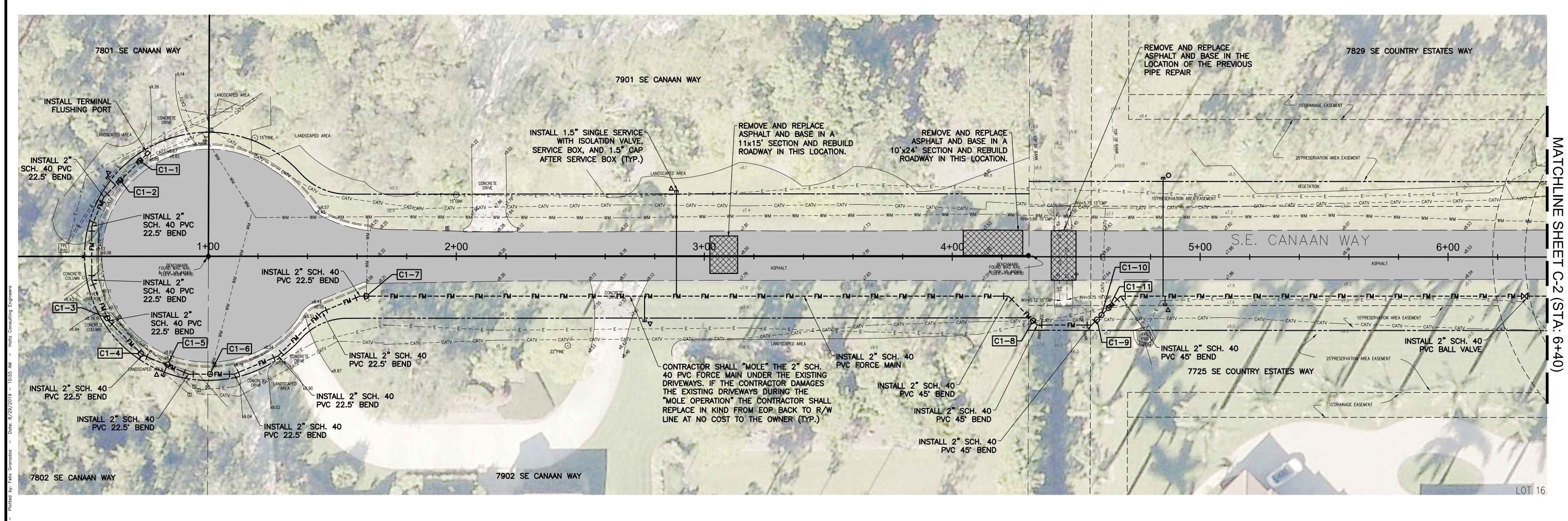
DATE BY

REVISIONS









C1-1	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING CABLE TV. MAINTAIN MINIMUM 12" CLEARANCE
C1-2	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING CABLE TV. MAINTAIN MINIMUM 12" CLEARANCE
C1-3	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING BURIED ELECTRIC. MAINTAIN MINIMUM 12" CLEARANCE
C1-4	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING ATT TELEPHONE. MAINTAIN MINIMUM 12" CLEARANCE
C1-5	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING CABLE TV AND EXISTING BURIED ELECTRIC. MAINTAIN MINIMUM 12" CLEARANCE
C1-6	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING WATER MAIN. MAINTAIN MINIMUM 12" CLEARANCE
C1-7	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING WATER MAIN. MAINTAIN MINIMUM 12" CLEARANCE

C1-8	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING CABLE TV AND BURIED ELECTRIC. MAINTAIN MINIMUM 12" CLEARANCE
C1-9	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING CABLE TV. MAINTAIN MINIMUM 12" CLEARANCE
C1-10	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING CABLE TV. MAINTAIN MINIMUM 12" CLEARANCE
C1-11	PROPOSED 2" SCH. 40 PVC FORCEMAIN UNDER EXISTING BURIED ELECTRIC. MAINTAIN MINIMUM 12" CLEARANCE

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UTILITIES IN THE VICINITY OF THE PROJECT WORK LOCATED AND VERIFIED PRIOR TO INITIATING WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES DURING CONSTRUCTION.

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORTING, REMOVING, AND REPLACING ALL UTILITY POLES AND LIGHT POLES AS NECESSARY.
- 3. THE LOCATION OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL LOCATE AND FIELD VERIFY PRIOR TO CONSTRUCTION.
- 4. SERVICE LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR TO COORDINATE SERVICE LOCATION WITH PROPERTY OWNER, LRD, AND THE ENGINEER AFTER SEPTIC TANK IS LOCATED AND PRIOR TO CONSTRUCTION.
- 5. CONTRACTOR SHALL COORDINATE ANY EXISTING VEGETATION REMOVAL WITH PROPERTY OWNER PRIOR TO BEGINNING CONSTRUCTION ON EACH PROPERTY.
- 6. THE ROADS SHALL BE MILLED 1" AND RESURFACED WITH A 1-1/2" OF SP12.5 STRUCTURAL COURSE (TRAFFIC LEVEL A) WITH TACK COAT AT 0.05 GAL/SY AND RC-70 PRIME COAT AT 0.10 GAL/SY.
- 7. DUE TO THE PROJECT'S CLOSE PROXIMITY TO THE LOXAHATCHEE RIVER, THE WATER TABLE ELEVATIONS ARE HIGHLY VARIABLE AND DEWATERING MAY BE NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY REQUIRED DEWATERING AND DETERMINING ALL REQUIREMENTS AND GOVERNMENTAL REGULATIONS PRIOR TO COMMENCEMENT OF WORK INCLUDING, BUT NOT LIMITED TO, METHODS OF DRAINAGE, REMOVAL OF WATER, DISPOSAL OF WATER AND PERMITTING.

LE	:GI	ΞN	D:

EXISTING CONCRETE DRIVEWAY

EXISTING STAMPED CONCRETE DRIVEWAY

EXISTING PAVER DRIVEWAY

MILL AND RESURFACE ASPHALT PAVEMENT (SEE NOTE 6)

ROAD POINT REPAIRS

Date: 12-28-18
Scale: AS NOTED

Design By: CM

Drawn By: RR

REVISIONS

DATE BY

Check By: DH

LOXAHATCHEE RIVER DISTRICT ISLAND COUNTRY ESTATES LOW PRESSURE FORCE MAIN

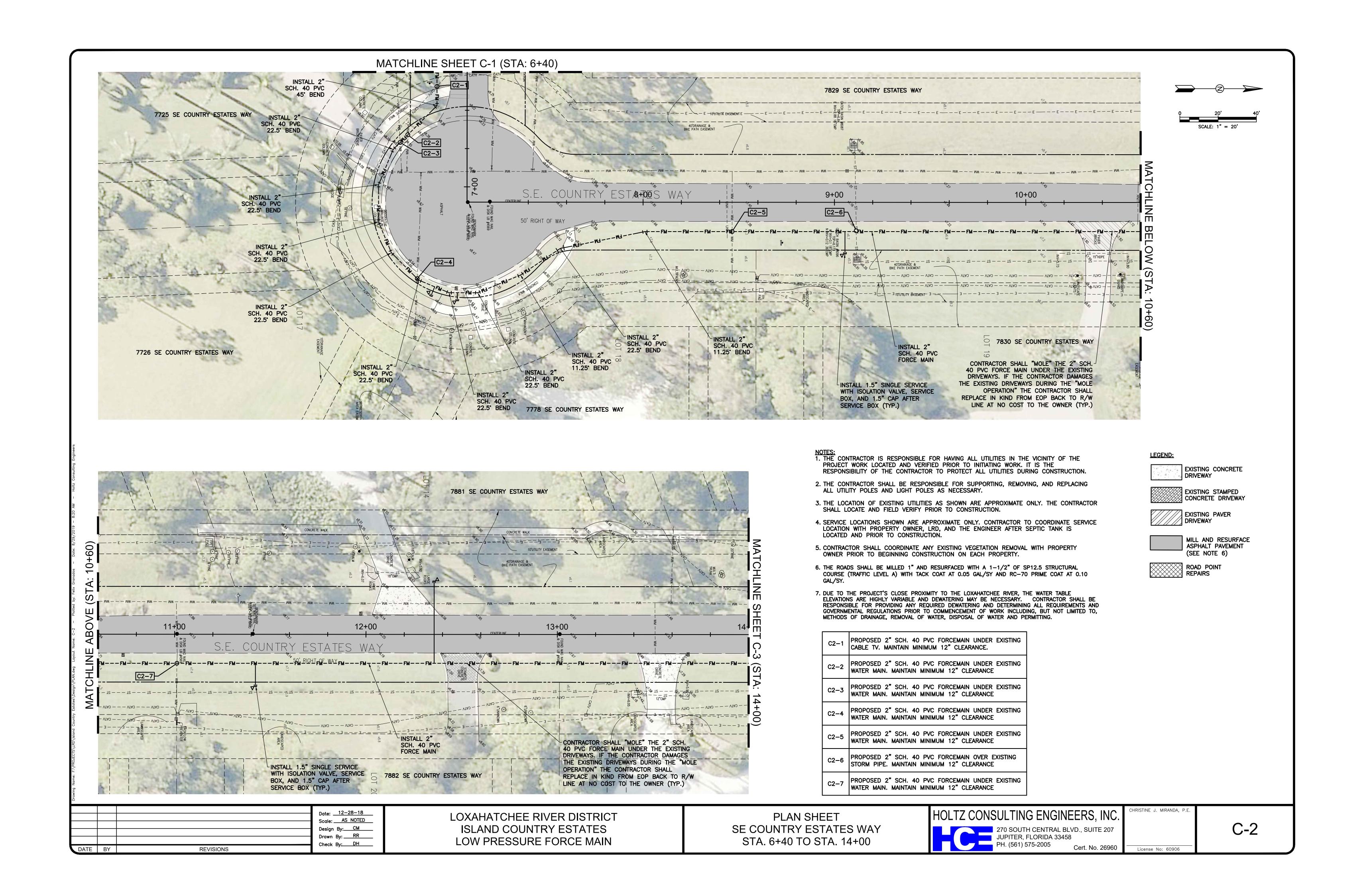
PLAN SHEET SE CANAAN WAY

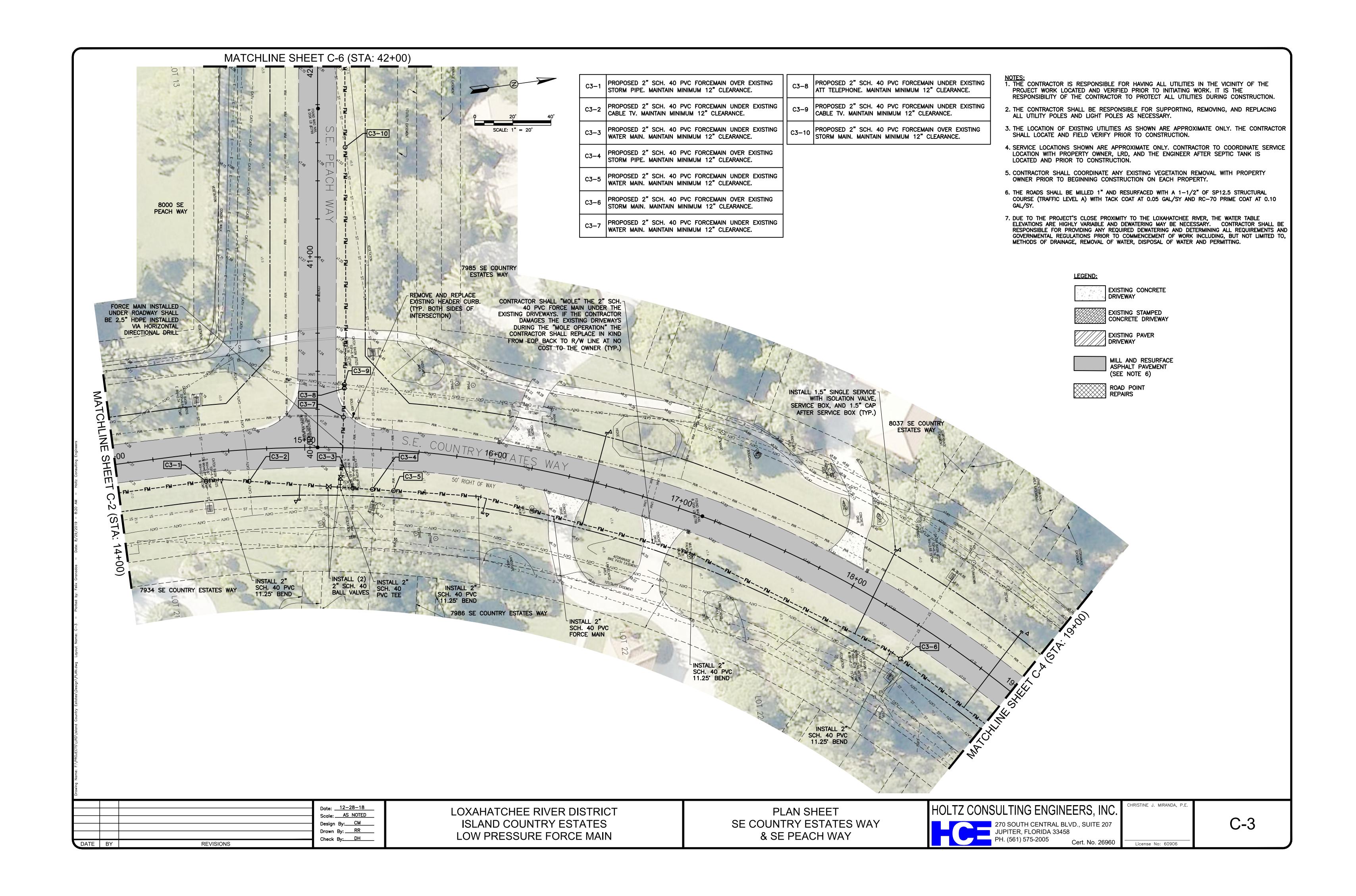


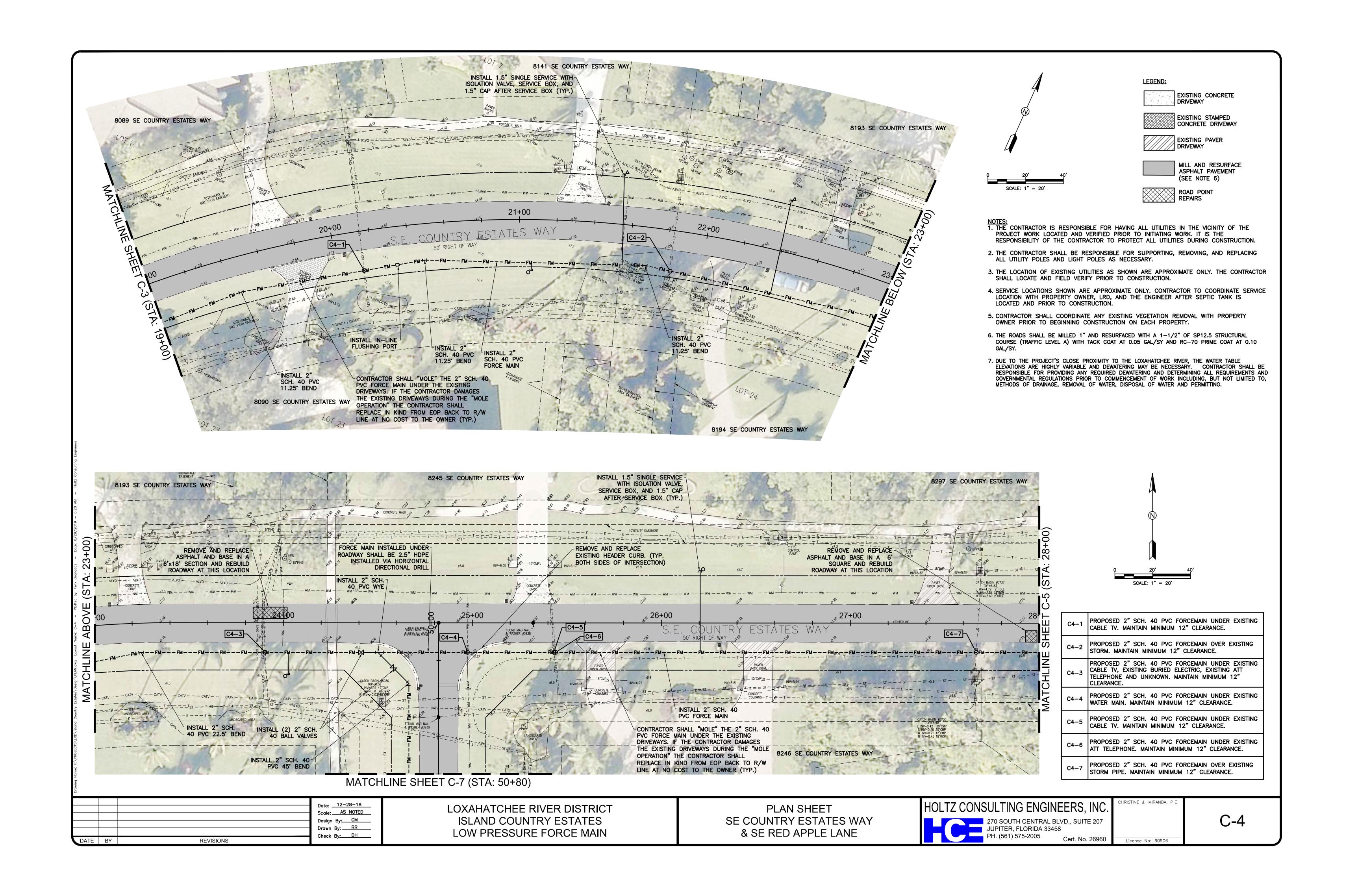
CHRISTINE J. MIRANDA, P.E.

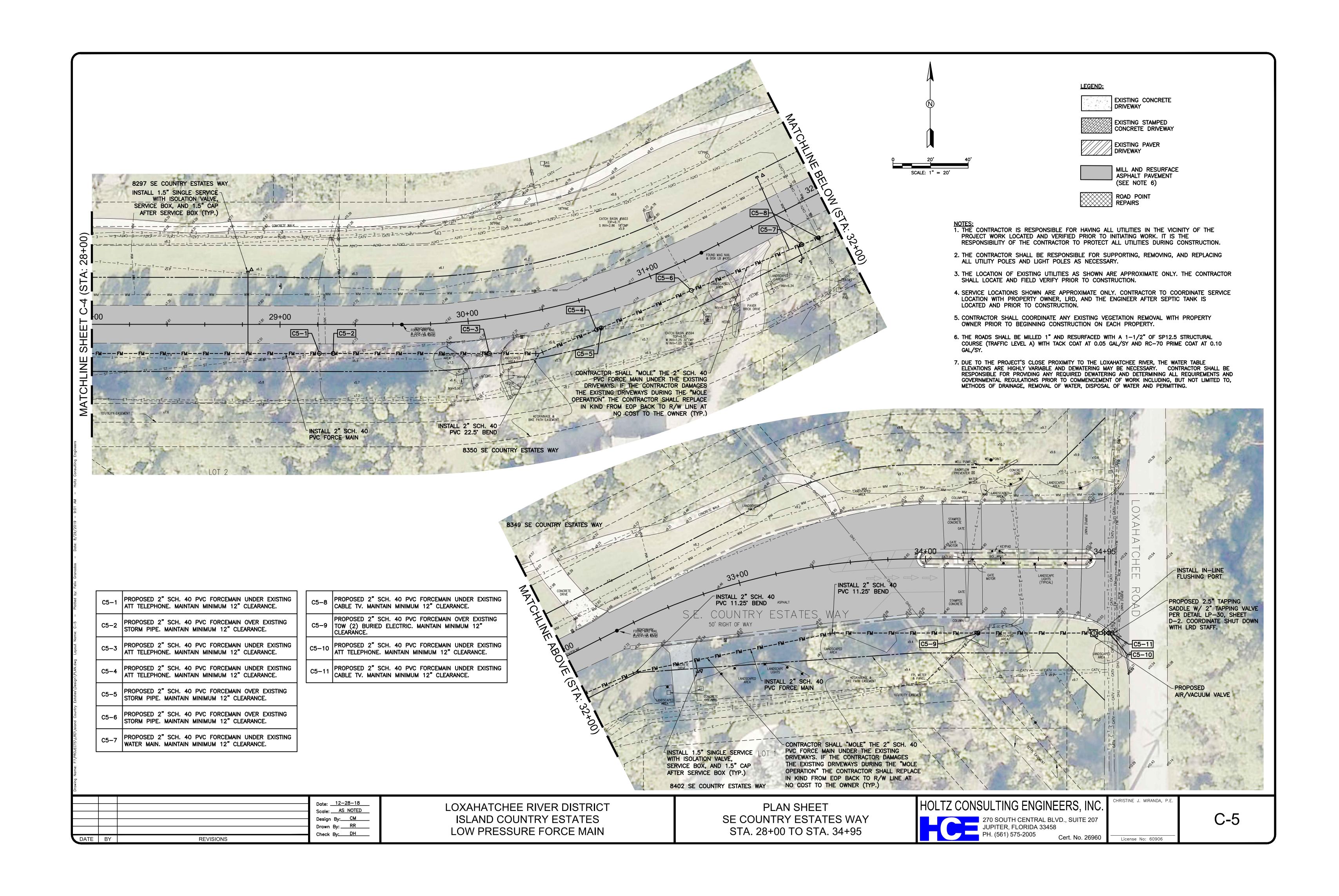
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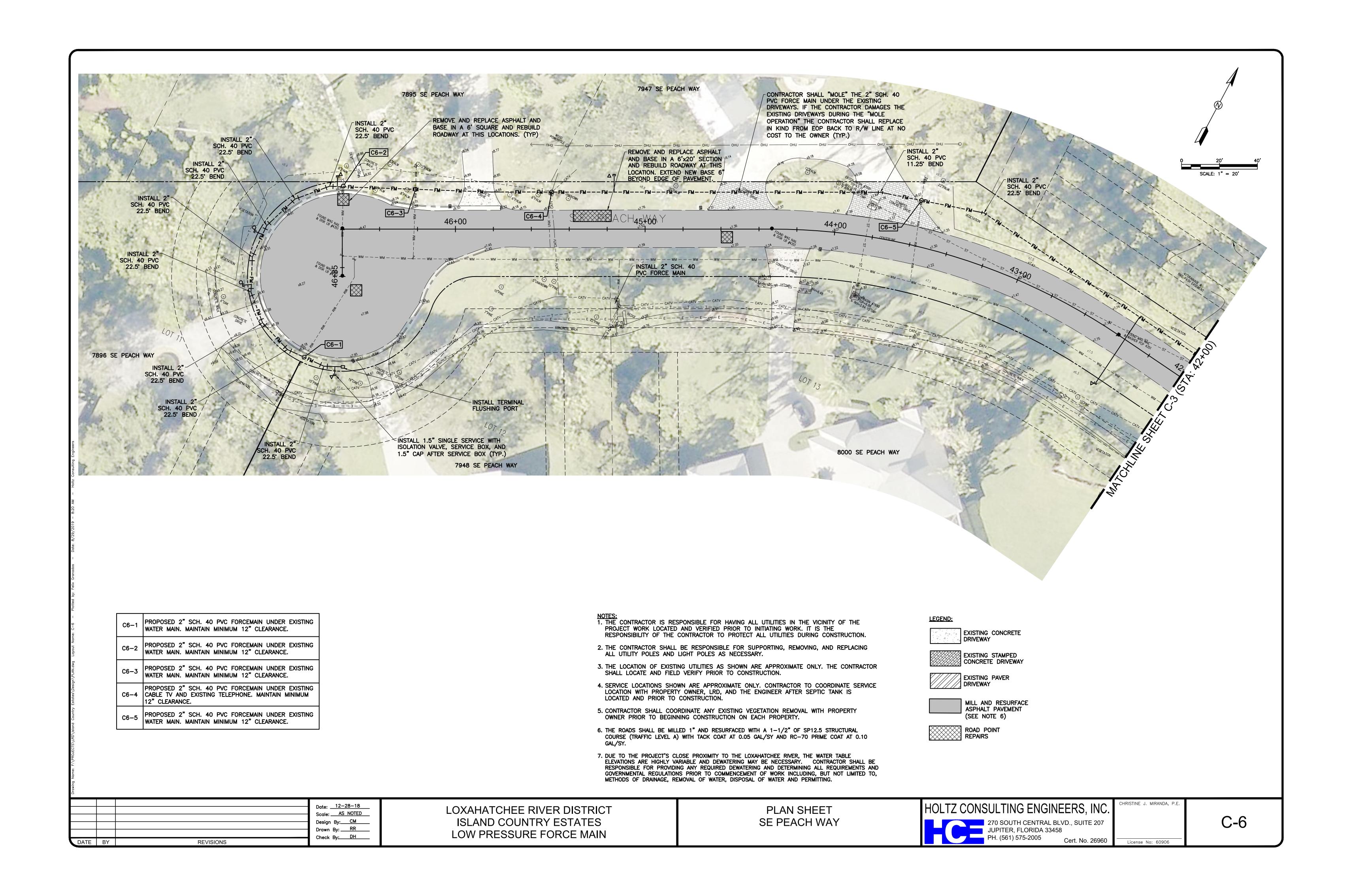
C-1

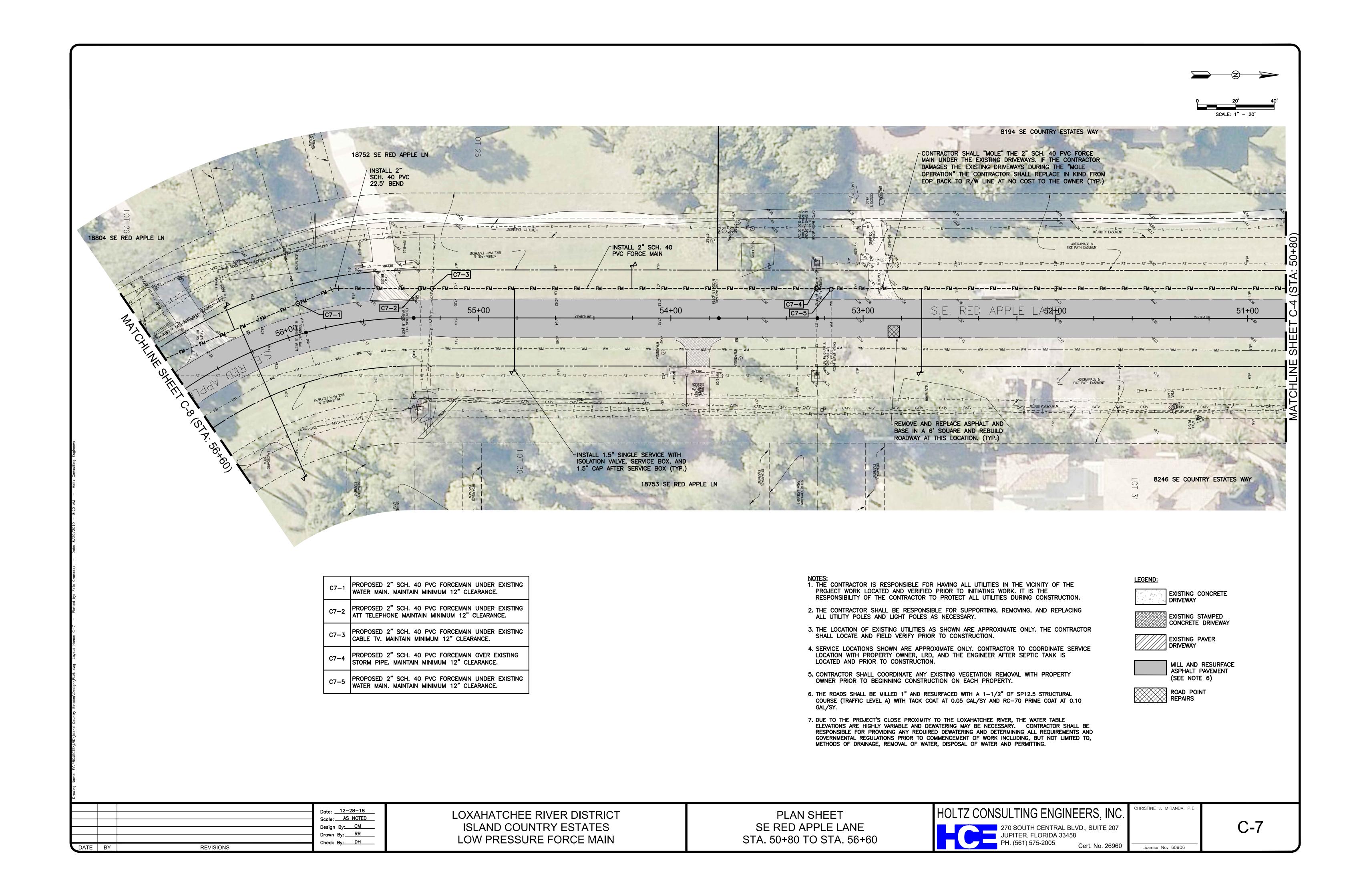


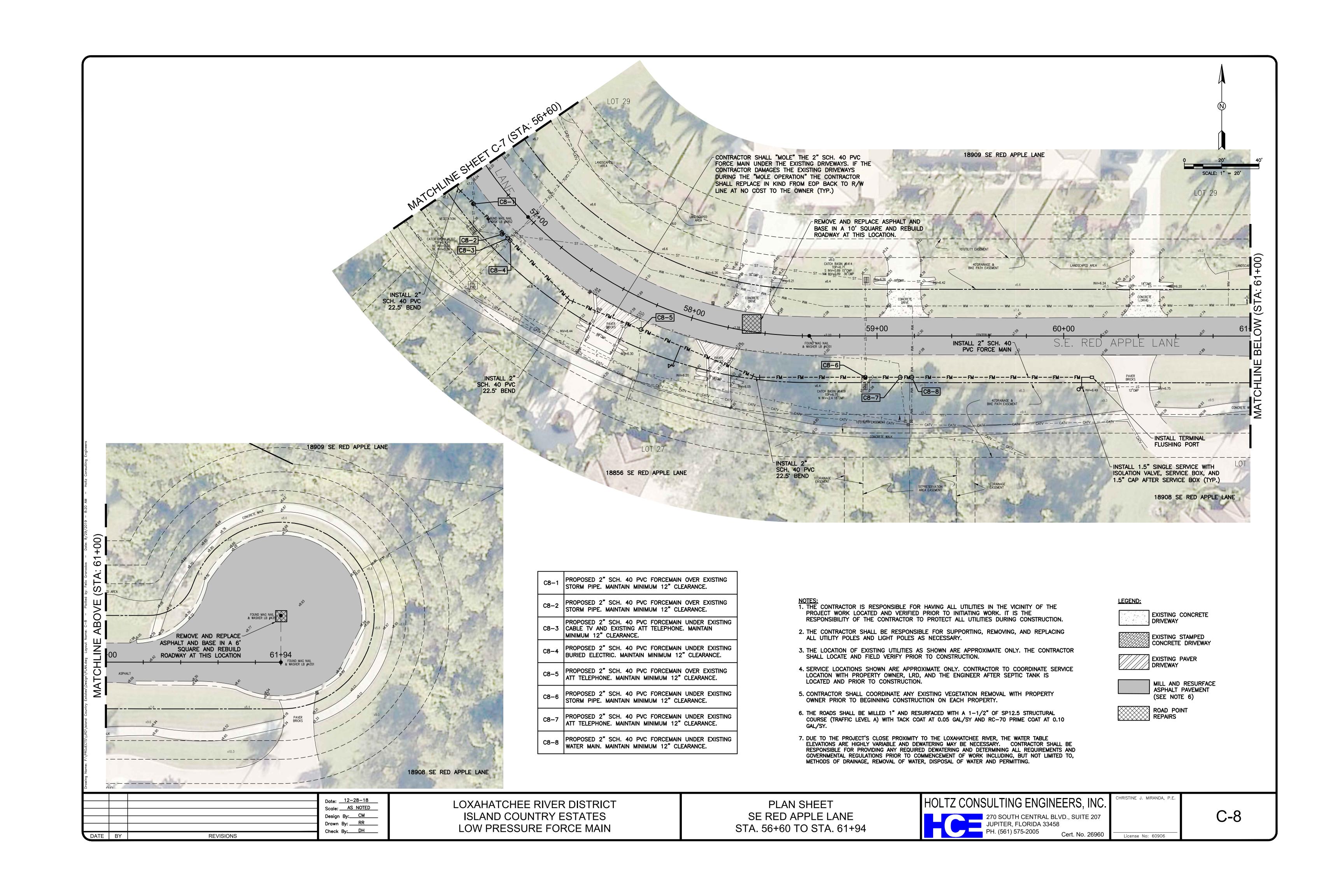


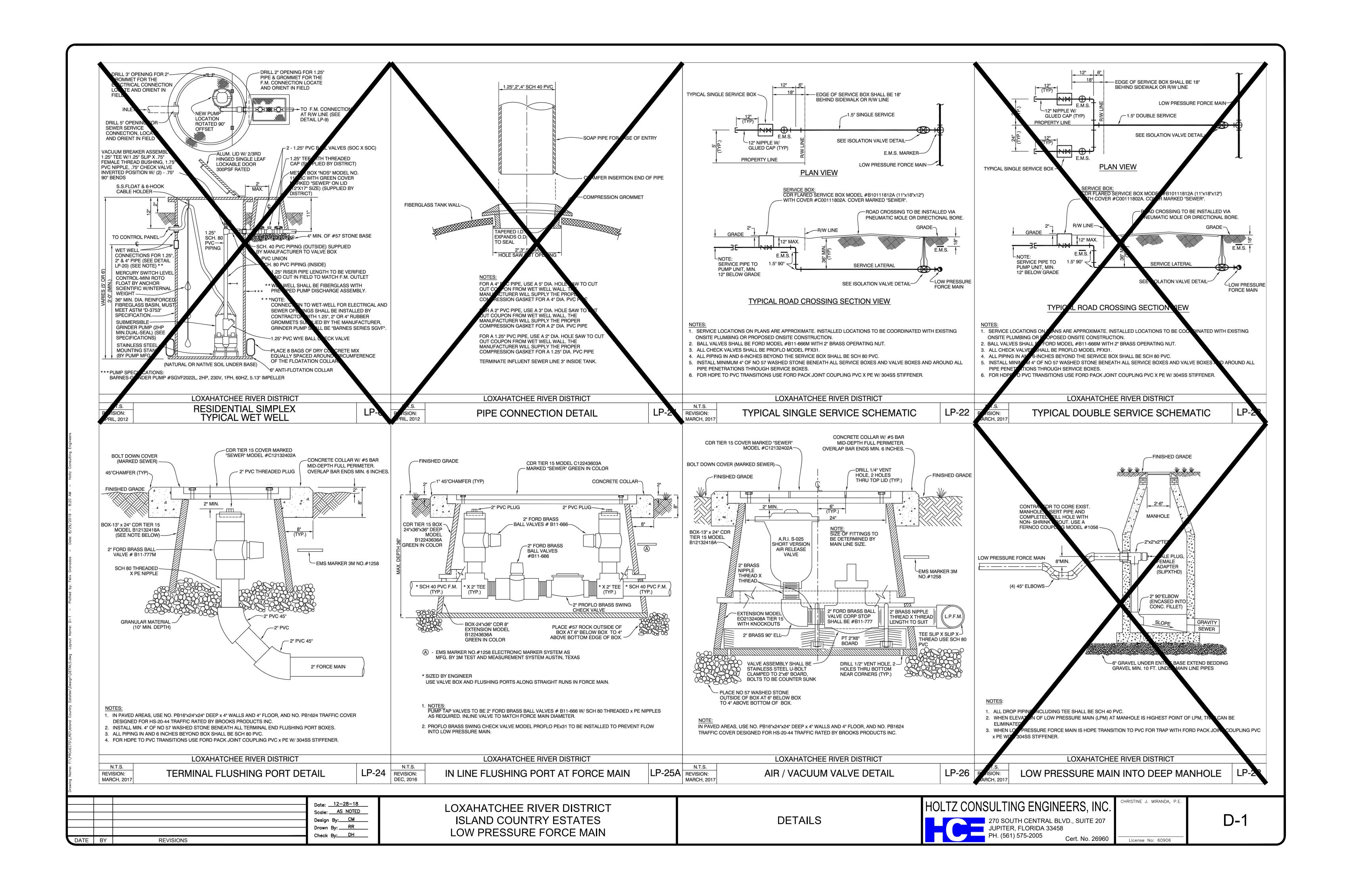


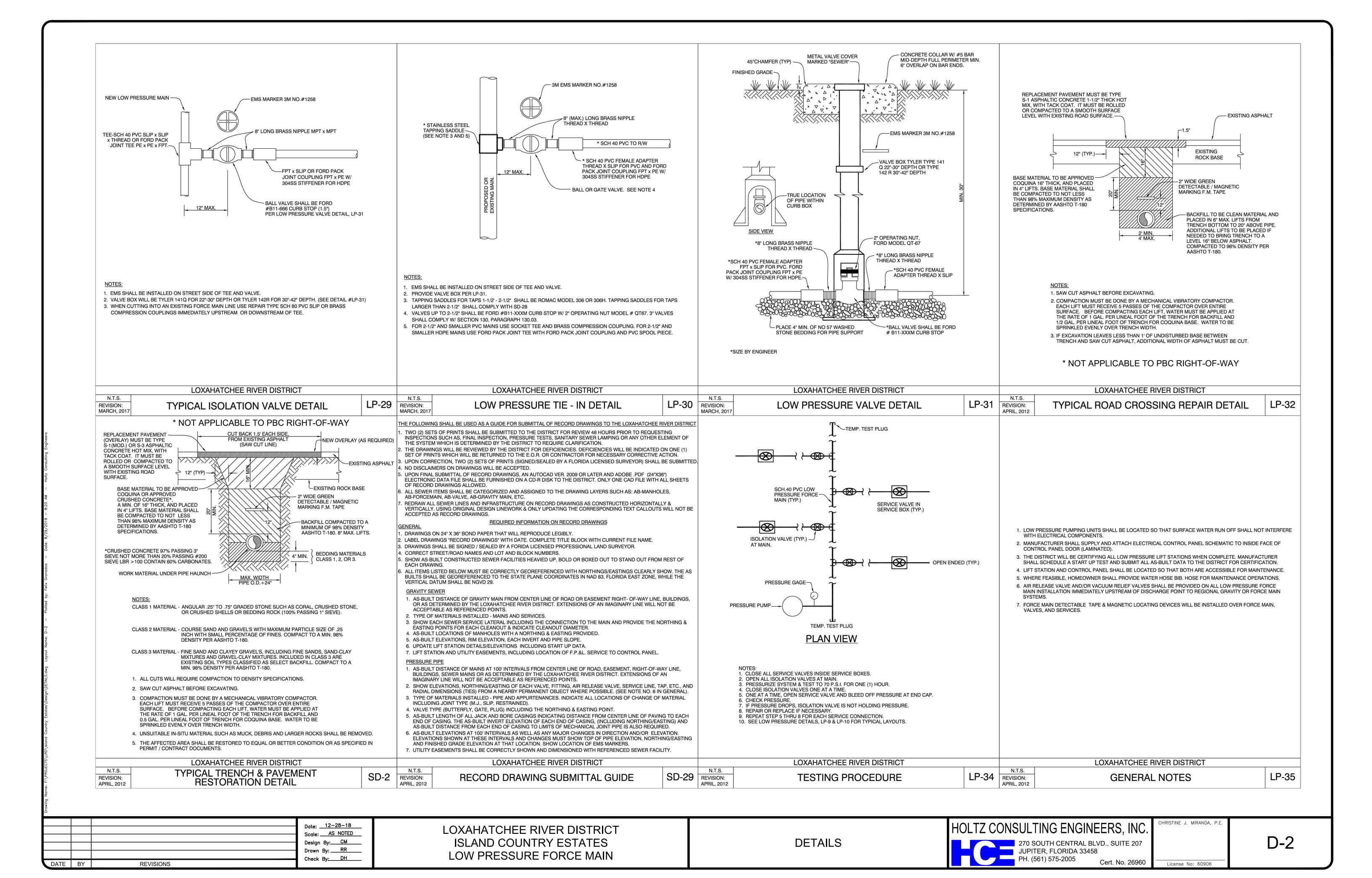


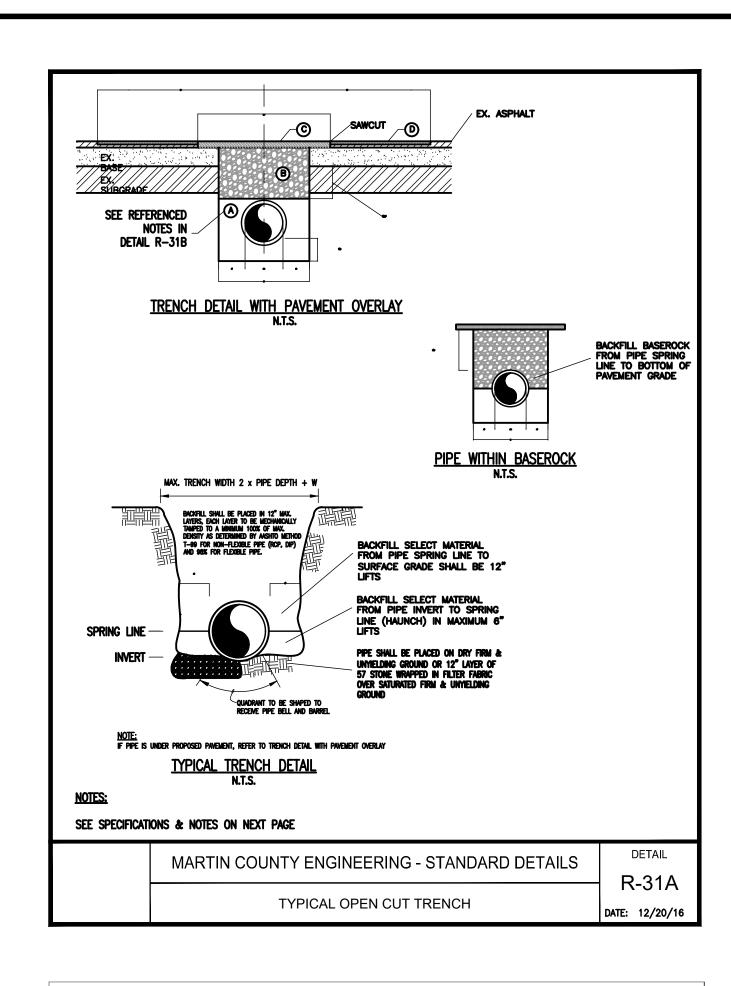


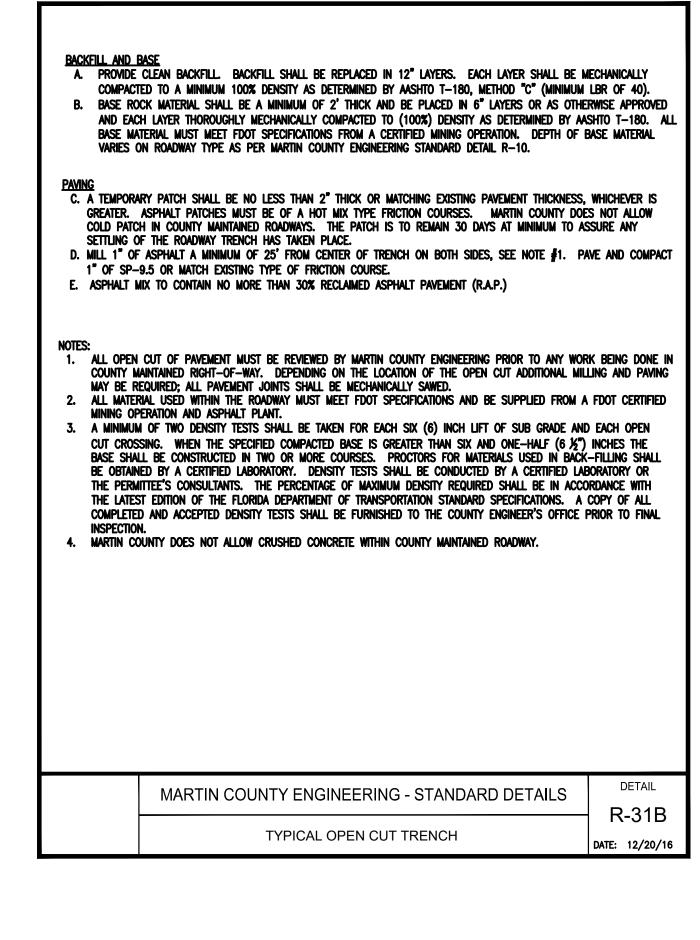


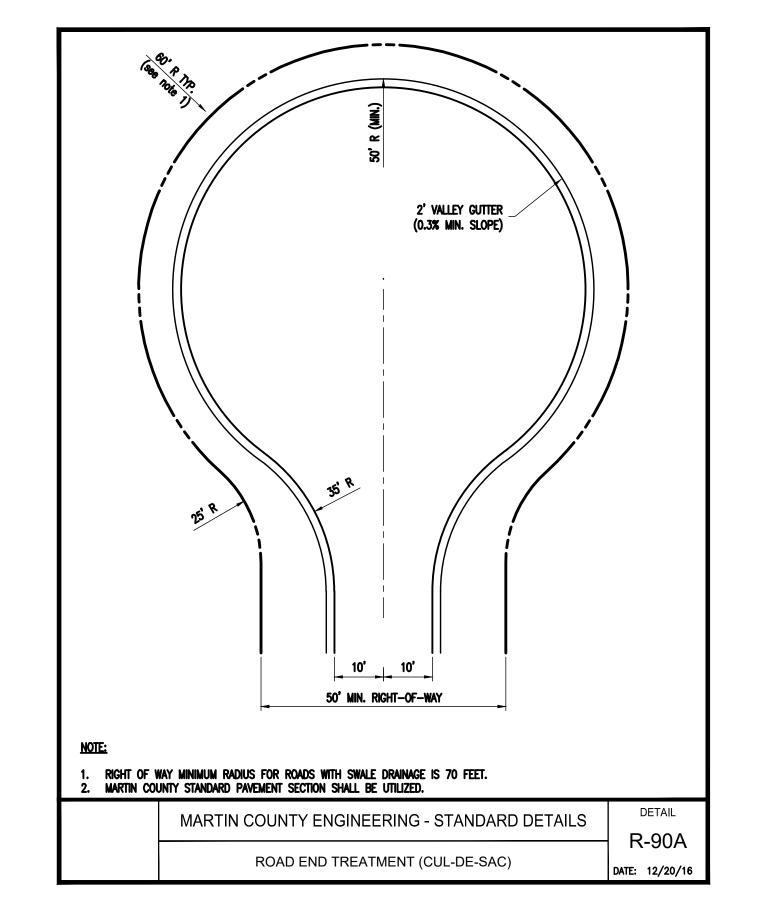




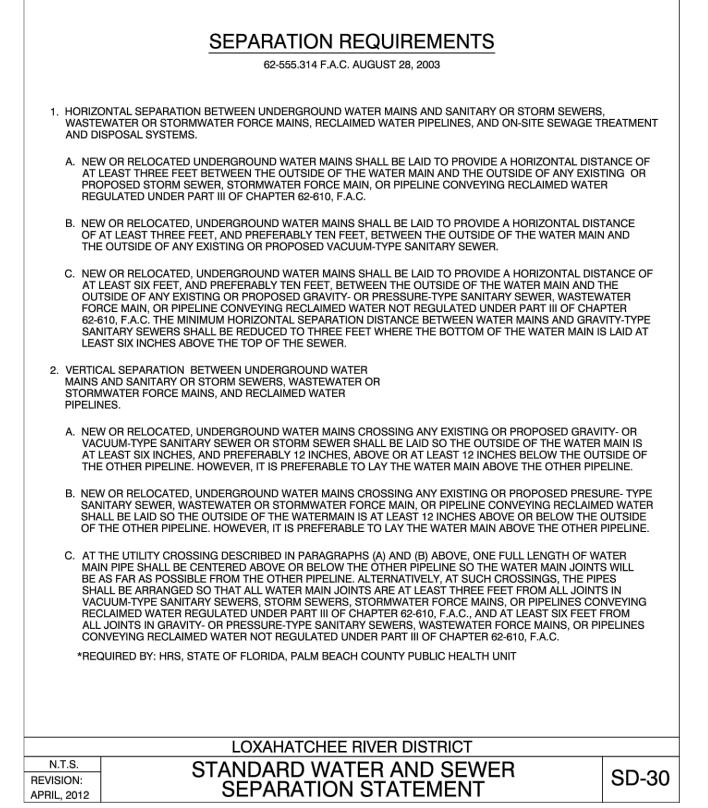








DETAILS



DATE BY

REVISIONS

Date: <u>12-28-18</u>

Design By: CM

Scale: AS NOTED

Drawn By: RR

Check By: DH





License No: 60906

BID FORM — BASE BID LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT ISLAND COUNTRY ESTATES LOW PRESSURE FORCE MAIN SYSTEM

UNIT PRICES

No.	Description	Unit	Qty	Unit Cost	Total
Low Pressure Force Main Items					
1	Force Main Mobilization/Demobilization	1	LS		
2	Maintenance of Traffic	1	LS		
3	Record Drawings	1	LS		
4	Preconstruction Video	1	LS		
5	NPDES Permit/Erosion Measures	1	LS		
6	2" PVC Force Main & Fittings	5,470	LF		
7	1.5" Single Service (Short)	23	EA		
8	1.5" Single Service (Long) – Directional Drilled or Moled	15	EA		
9	Driveway Crossing (Moled)	26	EA		
10	Sidewalk Crossing (Moled)	4	EA		
11	2" Isolation Valve	6	EA		
12	In-Line Flushing Port	3	EA		
13	Terminal Flushing Port	5	EA		
14	Air Release Valve	1	EA		
15	Connect 2" PVC Force Main to Existing 2.5" PVC Force Main	1	EA		
16	Roadway Crossing (Directional Drill)	2	EA		
	Roadway Ite	ems		1	
17	Roadway Mobilization/Demobilization	1	LS		

18	Maintenance of Traffic	1	LS	
19	Mill and Resurface Asphalt Roadway, Including Pavement Markings	14,300	SY	
20	Header Curb Replacement		LF	
21	Asphalt Roadway Removal and Repair, Including Compaction		SY	

TOTAL BASE BID ITEMS 1-19 (in words)	Dollars
	Cents

THE CONTRACT AWARD SHALL BE EVALUATED BASED ON THE TOTAL BASE BID PRICE FOR ITEMS 1 THROUGH 21 AS SUBMITTED BY THE LOWEST, QUALIFIED, RESPONSIBLE, RESPONSIVE BIDDER.

	(Name of Bidder)
	Bidders Name:
	By:Signature of Authorized Officer, Partner, Member, Manager
	Print Name of Person signing:
	Title:
	Business Address:
Incorporated or formed under the l	aws of the State of

SECTION 01200

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. The Unit prices stated in the Contract shall be considered payment in full for the completion of all work. Payment shall be made under each item only for work as it is not specifically included under other items.
- B. The CONTRACTOR shall furnish all labor, equipment and material required to complete the construction of a new 2-inch Sch. 40 PVC and/or 2-inch SDR-11 HDPE low pressure force main. The proposed low pressure force main will be installed along SE Country Estates Way, SE Peach Way, SE Canaan Way, and SE Red Apple Lane and will connect to the proposed low-pressure force main located at the west side of Loxahatchee River Road.

1.02 PERFORMANCE

- A. Section generally defines unless otherwise indicated, the following:
 - 1. Payment item descriptions.
 - 2. Payment application descriptions.
- B. The cost of temporary facilities, bonds, insurance, attending project meetings, administration, record drawings, policing, and other general duties shall be considered incidental to all items.
- C. The OWNER may direct the CONTRACTOR to install certain portions of the work in advance of other portions without extra payment to the CONTRACTOR.

1.03 RELATED SECTIONS

- A. Notice to Contractors
- B. Article 1 Instructions to Bidders.
- C. Article 2 Bid Form.
- D. Article 4 Contract.

E Article 10 - General Conditions

1.04 LUMP SUM ITEMS

A. The lump sum price shall be full compensation for all labor, materials and equipment to satisfactorily complete the installation of the items as shown on the plans and indicated in the details for lump sum bid items.

1.05 UNIT PRICE ITEMS

A. The ENGINEER or his representative shall determine the number of units of each work item installed.

1.06 SATISFACTORY COMPLETION

A. Satisfactory completion shall include dewatering, if any, and repair or replacement of damaged landscaping, irrigation systems, pavement or other existing improvements.

1.07 PAYMENT ITEMS

A. Unit Price Bid

- 1. Payment shall constitute summation of measured quantities multiplied by the respective unit price for items constructed as specified herein and shown on the engineering drawings; including installation and removal of all temporary facilities, piping; and supply of all incidental materials, equipment and labor necessary to complete the contemplated Work whether specifically identified herein or not.
- 2. Partial progress payments will be made at monthly intervals and will be based upon the value of the Work completed on the date that a partial payment application is submitted less deductions for retainage as defined elsewhere. Signed and Sealed Record Drawings shall be submitted and approved with each partial and final pay request.

1.08 PAYMENT APPLICATION DESCRIPTION

- A. Preparation of Applications:
 - 1. Present required information in type written form, or equivalent.
 - 2. Execute certification by signature of authorized officer.
 - 3. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed.

4. List each authorized Change Order as an extension on the Application for Payment, listing Change Order number and dollar amount as for an original item of Work.

B. Submittal Procedures

1. Submit three (3) copies of each Application for Payment.

Payment Period: Submit monthly as directed by the OWNER.

Submit signed and sealed record drawings covering work for which payment is being requested.

Submit revised progress schedule accurately reflecting the work completed and the schedule of future work items

C. Substantiating Data

- 1. When OWNER requires substantiating information, submit data justifying dollar amounts in question.
- 2. Provide one (1) copy of data with cover letter of each copy of application. Show Application number and date, and line item by number and description on each piece of data.

PART 2 – PRODUCTS

NOT USED

PART 3 - EXECUTION

3.01 BID ITEM DESCRIPTIONS

A. PAY ITEM NO. 1 – MOBILIZATION/DEMOBILIZATION

The Contract Lump Sum for this item shall constitute full compensation for mobilization, demobilization, general conditions, insurances, monthly photos, shop drawings, permits, temporary facilities, and bonding in accordance with the contract documents. The first payment shall not include mobilization / demobilization if the CONTRACTOR has not started work at the project site. Payment for this item shall be by Lump Sum (LS). Total cost of this item shall not exceed 10% of the total contract value

B. PAY ITEM NO. 2 – MAINTENANCE OF TRAFFIC

The Contract Lump Sum for this item shall constitute full compensation for providing all necessary permits and traffic devices to maintain traffic during construction and restoration. Traffic devices may be in the form of barricades, personnel, lights, signs, temporary rock roadways, etc. All work shall be in accordance with all applicable Florida Department of Transportation specifications, and in accordance with the governing municipalities and other governing agencies. Payment for this item shall be by Lump Sum (LS).

C. PAY ITEM NO. 3 – RECORD DRAWINGS

The Contract Lump Sum for this item shall constitute full compensation for providing a Professional Surveyor licensed in the State of Florida to perform as-built surveying including: signed and sealed record drawings; AUTOCAD record drawings and other items described in **Section 01720 - Record Documents**. Payment for record drawing information will be made upon completion of all required items in accordance with the requirements of the Contract Documents. Payment for record drawings will be processed after drawings are approved. No partial payments shall be made for record drawings. Payment for this item shall be by Lump Sum (LS).

D. PAY ITEM NO. 4 – PRECONSTRUCTION VIDEO

The Contract Unit Price for this item shall constitute full compensation for providing, prior to start of construction, a video of the project by a professional video-taping service acceptable to the OWNER. The video may include all driveways, landscaping area, etc. for each side of the streets. The video should extend from right-of-way to right-of-way and 10' beyond. A copy of the video shall be turned over to the OWNER and ENGINEER for their use. Payment for this item shall be by Lump Sum (LS).

E. PAY ITEM NO. 5 – NPDES PERMIT/EROSION MEASURES

The Contract Lump Sum for this item shall constitute full compensation for establishing, constructing and maintaining erosion and sediment control measures. The erosion control programs shall be maintained during the entire period of construction, including any extensions in Contract time. Temporary erosion and pollution control shall include construction work off-site where such work is necessary as a result of borrow pit operations, haul roads or equipment storage sites, etc. This work shall also include the preparation of any required Stormwater Pollution Prevention Plan (SWPPP), including modifications and updates. The CONTRACTOR shall obtain and comply with all provisions of the State of Florida, Department of Environmental Protection, Permit for Stormwater Discharge from Large and Small Construction Activities (NPDES Construction Site Permit Program). Payment for this item shall be by Lump Sum (LS).

F. PAY ITEM NO. 6 – 2-INCH PVC FORCE MAIN AND FITTINGS

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to furnish and install PVC force main as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the pipe trench, together with the disposal of all excess materials, bracing, sheeting, and dewatering, the installation of the PVC pipe, fittings, pipe restraints, and trace wire, the backfilling and compaction of the pipe trenches, density testing, hydrostatic testing, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all time, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the water main. This work also includes repairs to irrigation systems damaged or removed during the construction activities and shall include piping, valves, heads, controls, conduit, boxes, wires, panels, etc. irrigation systems shall be restored to the pre-existing condition or better. This item shall also include removal and proper restoration of miscellaneous items such as mailboxes, decorative landscaping, driveway and drainage culverts, irrigation piping, etc. All mailboxes and irrigation piping removed during the course of construction are to be properly restored to the pre-existing condition or better, as directed by the ENGINEER. Where so directed by the OWNER, decorative landscaping shall be replaced. Restoration of all landscaped and sodded areas shall be equal or better than the original condition. If the CONTRACTOR elects to remove landscape material and reinstall the material at a later date, they shall be responsible for properly maintaining and watering the material while it is under their care for thirty (30) days. Payment of this item shall be per Linear Foot (LF) installed.

G. PAY ITEM NO. 7 – 1.5-INCH SINGLE SERVICE (SHORT)

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install PVC service piping (up to 30 feet), fittings, adapters, EMS markers, curb stops, ball valves, swing check valves, service boxes, and any other appurtenances necessary to connect the single service to the force main shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing, sheeting and dewatering, the furnishing and compaction, hydrostatic testing, disinfection, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, constructing and maintaining all bridges required for traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of sewer service lines, service boxes, valves, and appurtenances. Payment for this item shall be the actual number of Each (EA) single service installed.

H. PAY ITEM NO. 8 – 1.5-INCH SINGLE SERVICE (LONG) – (HORIZONTAL DIRECTIONALLY DRILLED OR MOLED)

The Contract Unit Price for this item shall constitute full compensation for providing all labor, materials, equipment, and incidentals necessary to furnish and install HDPE service piping (up to 75 feet), fittings, adapters, EMS markers, curb stops, ball valves, swing check valves, service boxes, and any other appurtenances necessary to connect the single service to the force main via horizontal directional drill or pneumatic mole method below existing roadway as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation and backfill thereof, together with the disposal of all excess materials, bracing, sheeting and dewatering, the furnishing and compaction, hydrostatic testing, disinfection, maintaining uninterrupted flow of existing utilities, providing access to driveways at all times, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of low pressure force main service lines, service boxes, valves, and appurtenances. Payment for this item shall be the actual number of Each (EA) single service installed.

I. PAY ITEM NO. 9 – DRIVEWAY CROSSING (MOLED)

The Contract Unit Price for this item shall constitute full compensation for providing all labor, material, and equipment required for the driveway bore with a new casing for the construction of new low pressure force mains. The quantities for driveway bores are estimated based on where pipeline is installed under existing driveways and is in lieu of open cut methods to restore driveways. If the driveway is damaged during construction, the CONTRACTOR shall be responsible to restoring the driveway to pre-existing or better condition at no additional cost to the OWNER. Payment for this item shall be the actual number of Each (EA) driveway crossing installed.

J. PAY ITEM NO. 10 – SIDEWALK CROSSING (MOLED)

The Contract Unit Price for this item shall constitute full compensation for providing all labor, material, and equipment required for the sidewalk bore with a new casing for the construction of new low pressure force mains. The quantities for sidewalk bores are estimated based on where pipeline is installed under existing sidewalks and is in lieu of open cut methods to restore sidewalks. If the sidewalk is damaged during construction, the CONTRACTOR shall be responsible to restoring the sidewalk to pre-existing or better condition at no additional cost to the OWNER. Payment for this item shall be the actual number of Each (EA) sidewalk crossing installed.

K. PAY ITEM NO. 11–2-INCH ISOLATION VALVE

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete installation of 2-inch ball valve curb stops as shown on the construction drawings, specified herein and as directed by the ENGINEER. This item includes, but is not limited to, all excavation, disposal of excess materials, bracing, sheeting, rock removal, dewatering, the furnishing and installation of the ball valves, valve boxes, valve key extensions, bolts, nuts, gaskets, restraints, glands, adapters, backfilling, compaction, rock bedding, concrete thrust blocks, concrete collars, Operation and Maintenance Manuals, and concrete supports, and protection of utilities, structures, trees, and shrubs. Payment for this item shall be the actual number of Each (EA) valve installed.

L. PAY ITEM NO. 12 – IN-LINE FLUSHING PORT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install in-line flushing ports, as shown on the drawings, as specified herein and as directed by the ENGINEER, including but not limited to: excavation, disposal of excess materials, bracing, sheeting and dewatering, the installation of the materials of the in-line flushing port assembly, box, cover, PVC piping, ball valves, plugs, fittings, gaskets, flanges, and restraints, backfill and compaction, rock bedding, hydrostatic testing, concrete thrust blocks, maintaining uninterrupted service in existing utilities, location and protection of utilities, maintenance of traffic, and all other work required for the complete installation of the in-line flushing port. Payment for this item shall be the actual number of Each (EA) in-line flushing port installed.

M PAY ITEM NO. 13 – TERMINAL FLUSHING PORT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install terminal flushing ports, as shown on the drawings, as specified herein and as directed by the ENGINEER, including but not limited to: excavation, disposal of excess materials, bracing,

sheeting and dewatering, the installation of the materials of the terminal flushing port assembly, box, cover, PVC piping, ball valves, plugs, fittings, gaskets, flanges, and restraints, backfill and compaction, rock bedding, hydrostatic testing, concrete thrust blocks, maintaining uninterrupted service in existing utilities, location and protection of utilities, maintenance of traffic, and all other work required for the complete installation of the terminal flushing port. Payment for this item shall be the actual number of Each (EA) terminal flushing port installed.

N. PAY ITEM NO. 14 – AIR RELEASE VALVE

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to install air release valves as shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the excavation for the valves, together with the disposal of all excess materials, bracing, sheeting and dewatering, the installation of the air release valve, valve boxes, bolts, nuts, and gaskets, backfilling, hydrostatic testing, concrete thrust block and restraints and concrete supports, maintaining uninterrupted flow of existing utilities, providing access to driveways and roadways at all times, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the air release valves. Payment for this item shall be the actual number of Each (EA) air release valve installed.

O. PAY ITEM NO. 15 – CONNECT 2" PVC FORCE MAIN TO EXISTING 2.5" PVC LOW PRESSURE FORCE MAIN

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to connect to the proposed 2-inch PVC force main to the existing 2.5-inch PVC force main where shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: removing existing pipe and fittings, excavation and backfill thereof, sheeting and bracing, dewatering, protection and support of existing utilities, proper handling and disposal of pipe at an approved facility, installing adapters for new the new pipe and fittings, providing access to roadway, driveways, and sidewalks at all times, backfilling and compaction, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs, and lawns, and all other work required for connecting to the existing force main. Payment for this item shall be the actual number of Each (EA) connection installed.

P. PAY ITEM NO. 16 – ROADWAY CROSSING (DIRECTIONAL DRILL)

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools for the complete construction of a 2.5-inch HDPE low pressure force main installed via horizontal directional drill methods as shown on the construction Drawings, specified herein and as directed by the ENGINEER. This item includes, but is not limited to, surveying, erosion control, excavation, backfill, and compaction for entry and exit pits, maintenance of traffic, supporting and protecting existing utilities, dewatering, all pipe, fusing, drilling, reaming, slurry, pulling of pipe through the borehole, disposal of excess materials, frac-out control, pipe marking tape, tracer wire, tracer wire termination boxes, adapters, temporary restoration of irrigation systems (irrigation piping, sprinkler heads, etc.), providing temporary sidewalks and walkways interrupted during

construction activities, temporary restoration of mailboxes, temporary restoration of fences, temporary restoration of driveways, temporary restoration of roads, temporary restoration of structures, etc., and removal and disposal of sidewalks, driveways, asphaltic concrete, rock base and subgrade (including necessary sawcutting). Payment for this item is per actual number of each (EA) horizontal directional drill performed not actual quantity of piping installed. Payment for this item will be from the end of the 2.5-inch pipe with the pulling head connected to it to the end of the last section of 2.5-inch pipe pulled as part of the HDD.

Q. PAY ITEM NO. 17 - ROADWAY WORK MOBILIZATION/DEMOBILIZATION

The Contract Lump Sum for this item shall constitute full compensation for mobilization, demobilization, general conditions, insurances, monthly photos, shop drawings, permits, temporary facilities, and bonding in accordance with the contract documents. The first payment shall not include mobilization / demobilization if the CONTRACTOR has not started work at the project site. Payment for this item shall be by Lump Sum (LS). Total cost of this item shall not exceed 10% of the total contract value.

R. PAY ITEM NO. 18 – MAINTENANCE OF TRAFFIC FOR ROADWAY WORK

The Contract Lump Sum for this item shall constitute full compensation for providing all necessary permits and traffic devices to maintain traffic during construction and restoration of the roadway work. Traffic devices may be in the form of barricades, personnel, lights, signs, temporary rock roadways, etc. All work shall be in accordance with all applicable Florida Department of Transportation specifications, and in accordance with the governing municipalities and other governing agencies. Payment for this item shall be by Lump Sum (LS).

S. PAY ITEM NO. 19 – MILL AND RESURFACE ASPHALT ROADWAY, INCLUDING PAVEMENT MARKINGS

Under this Item, CONTRACTOR shall provide all labor, material, and equipment required for the milling and resurfacing of asphalt pavement areas as shown by hatching on the Drawings. The bid shall include work, labor and materials associated with the sawcutting, MOT, pavement markings, cleaning, milling and resurfacing of the asphalt pavement in accordance with FDOT requirements. The cost shall include the milling of 1 inch and resurfacing asphalt pavement a minimum of one and a half inches (1½ inches) deep in accordance with the specifications, FDOT requirements and to the approval of the OWNER and permitting requirements. Any milling and resurfacing outside of the areas depicted on the Drawings will be paid for by the CONTRACTOR at no additional cost to the OWNER. Payment for this item shall be by Square Yard (SY) of asphalt pavement installed.

T. PAY ITEM NO. 20- HEADER CURB REPLACEMENT

The Contract Unit Price for this item shall constitute full compensation for furnishing all materials, labor, equipment and tools necessary to remove and replace flush header curb where shown on the contract drawings, as specified herein and as directed by the ENGINEER, including but not limited to: the removal of existing curb, together with the disposal of all excess materials, installation of new curb, providing access to driveways and roadways at all time, maintaining traffic control, cleaning the site of the work location and protection of utilities, structures, trees, shrubs and lawns, and all other work required for the complete installation of the curb. This work also includes restoration of any landscaping damaged during the course of construction. All damaged areas are to be properly restored to the preexisting condition or better, as directed by the ENGINEER. Where so directed by the OWNER, decorative landscaping shall be replaced. Restoration of all landscaped areas shall be equal or better than the original condition. If the CONTRACTOR elects to remove landscape material and reinstall the material at a later date, they shall be responsible for properly maintaining and watering the material while it is under their care for thirty (30) days. Payment of this item shall be per Linear Foot (LF) installed.

U. PAY ITEM NO. 21– ASPHALT ROADWAY REMOVAL AND REPAIR, INCLUDING COMPACTION

Under this Item, CONTRACTOR shall provide all labor, material, and equipment required for the replacement in accordance with FDOT requirements, in kind and to the same thickness, but not less than one and a half inches (1½ inches) of asphalt pavement that are damaged by construction activities and as shown by hatching on the Drawings. The bid price shall include but not be limited to installation, compaction, preparation and fine grading of subgrade and base, tack coat, erosion control, placement of the temporary asphalt patch, and final asphalt pavement, finishing, maintenance of traffic, and pavement markings. The cost shall include the replacement of any damaged asphalt pavement as a result of the construction activities in accordance with the specifications and to the approval of the OWNER. Any roadway restoration outside of the areas depicted on the Drawings will be paid for by the CONTRACTOR at no additional cost to the OWNER. Payment for this item shall be by Square Yard (SY) of asphalt pavement installed.

END OF SECTION