

COUNTY OF PALM BEACH
STATE OF FLORIDA

LYONS ROAD

FROM L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

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BOARD OF COUNTY COMMISSIONERS
PROJECT NO. 2018503

MARIA G. MARINO
DISTRICT 1

GREGG K. WEISS
DISTRICT 2

MARCI WOODWARD
VICE MAYOR
DISTRICT 4

SARA BAXTER
MAYOR
DISTRICT 6



JOEL G. FLORES
DISTRICT 3

MARIA SACHS
DISTRICT 5

BOBBY POWELL JR.
DISTRICT 7

THIS ITEM HAS BEEN
DIGITALLY SIGNED AND
SEALED BY MAJHARUL ALAM
ON THE DATE ADJACENT
TO THE SEAL USING SHA
AUTHENTICATION CODE.

SIGNATURE MUST BE
VERIFIED ON ANY
ELECTRONIC COPIES.

FINAL SUBMITTAL

GOVERNING STANDARDS:
THE FDOT ROADWAY & TRAFFIC DEISGN STANDARDS FY 2024-25
AND SUPPLEMENTS AND ALL PROVISIONS THERETO NOTED IN THE CONTRACT
FOR THIS PROJECT.

GOVERNING SPECIFICATIONS ARE CONTAINED IN THE CONTRACT DOCUMENTS
FOR THIS PROJECT.

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN
ARE IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS
AND CRITERIA IN EFFECT ON THIS DATE FOR PALM BEACH COUNTY
ENGINEERING DEPARTMENT AND THE STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION.

APPROVED BY: MAJHARUL, ALAM, PE, PMP

DATE: 9/23/2026

P.E. NO.: FL REGISTRATION NO 61600



PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E.# 61600

No.	Revisions	By	Date
△	SIGNALIZATION SHEETS T-1, T-2, T-5 & T-8	DS	9/18/26



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: N.T.S.
APPROVED: MA
DRAWN: DS
CHECKED: IA
DATE: 9/23/2026

LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
COVER SHEET

SHEET: T-1
OF: T-12
PROJECT NO.
2018503

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS		SHEET NUMBERS		TOTAL THIS SHEET		GRAND TOTAL	
			T - 6		T - 8					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
630-2-11-2A	ADDITIONAL 2" PVC (SCH 40) CONDUIT, IN OPEN TRENCH	LF	40		45		85		85	
630-2-12-2-4	4-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE)	LF	365				365		365	
632-7-1-19	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI			1		1		1	
632-7-4	SIGNAL CABLE, ADJUST	PI	1							
632-7-6	SIGNAL CABLE, REMOVE - IN INTERSECTIONADJUST	PI			1		1		1	
635-2-12-A	PULL BOX (17" X 30" X 12"D) HEAVY DUTY COVERS (TIER 22)	EA	7		3		10		10	
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS			1		1		1	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA			1		1		1	
641-2-12-16	PRESTRESSED CONCRETE POLE, F&I, 16' TYPE P-II SERVICE POLE	EA			1		1		1	
641-2-80	CONCRETE POLE REMOVAL - DEEP (INCLUDES POLE AND COMPLETE REMOVAL OF THE POLE FOUNDATION DEPTH OF UP TO 25 FEET) INCLUDES DISPOSAL OF POLE WHEN INSTRUCTED BY ENGINEER	EA			2		2		2	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	1		2		3		3	
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2		1		3		3	
649-22-1L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 30' (A30/S-P1/S/L)	EA			1		1		1	
649-22-6L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 50' (A50/S-P3/S/L)	EA			1		1		1	
649-22-21L-HD	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 78' HEAVY DUTY (A78/S-P6/S /L-HD)	EA			1		1		1	
649-2-12-40	DRILLED SHAFT FOUNDATION ASSEMBLY, 12' DEEP AND 4.0' DIAMETER, FURNISH AND INSTALL (DS/12/4.0)	EA			1		1		1	
649-2-18-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 18' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/18/4.5)	EA			1		1		1	
649-2-20-50	DRILLED SHAFT FOUNDATION ASSEMBLY, 20' DEEP AND 5.0' DIAMETER, FURNISH AND INSTALL (DS/20/5.0)	EA			1		1		1	
649-2-20-50-AD	ADDITIONAL DEPTH FOR DRILLED SHAFT FOUNDATION ASSEMBLY, 20' DEEP AND 5.0' DIAMETER, FURNISH AND INSTALL (DS/20/5.0)	LF			4		4		4	
650-1-13	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS			7		7		7	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS			2		2		2	
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM	EA			2		2		2	
653-192	PEDESTRIAN SIGNAL - COUNT DOWN (2-WAY) ALUMINUM	EA	1		2		3		3	
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA	12		9		21		21	
660-2-106-B	LOOP ASSEMBLY (TYPE F - 46')	EA	12		9		21		21	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	2		2		4		4	
690-80	REMOVE SPAN WIRE ASSEMBLY	PI			1		1		1	
700-5-22	INTERNALLY ILLUMINATED SIGN (8') FLUORESCENT	EA			3		3		3	
715-11-211-L2	FURNISH AND INSTALL 263 WATT COBRAHEAD LED LUMINAIRE	EA			3		3		3	

PAY ITEM NOTES:

635-2-12 A TYPICAL SIGNAL PULL BOXES SHALL BE 17" X 30" X12" IN DIMENSION AND HEAVY DUTY TIER 22 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC"

635-2-12 D TYPICAL ITS PULL BOXES SHALL BE 17" X 30" X 24" (SMALL) OR 30" X 48" X24" (LARGE) AND HEAVY DUTY TIER 22 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC ITS".

649-XX-XXX AT THE DISCRETION OF THE ENGINEER OF RECORD AND WITH MUTUAL AGREEMENT OF PBC TRAFFIC ENGINEERING FINAL LOCATIONS OF THE MAST ARMS MAY BE ADJUSTED IN THE FIELD IF THERE IS ANY CONFLICT WITH UTILITIES. SIGNAL CONTRACTOR SHALL VERIFY THE PROPOSED FOUNDATION ELEVATIONS.

650-1-XX TRAFFIC SIGNAL HEADS ARE TO BE CAST ALUMINUM. LED MODULES SHALL BE INSTALLED ON ALL SIGNAL DISPLAYS, INCLUDING ARROWS. THESE MODULES SHALL INCLUDE A MANUFACTURER'S WARRANTY OF AT LEAST FIVE YEARS. THE MAXIMUM POWER RATING SHALL BE 10 WATTS FOR RED BALLS, 14 WATTS FOR GREEN BALLS, AND 7 WATTS FOR THE ARROWS. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND BACK PLATES.

660-2-XXX TYPICAL LOOP SIZE IS 46' LONG.

665-1-XX ALL PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT. PBC PREFERS THE POLARA ENGINEERING INC BDL3 BULLDOGS III SERIES PUSH BUTTONS (APL 665-003-011) WITH COUNTY LOGO. CONTACT MANUFACTURER FOR THE CUSTOM ETCHED LOGO AND REFER TO BDL3-B-CF. COSTS OF PEDESTRIAN SIGN SHALL BE INCLUDED IN UNIT PRICE FOR PEDESTRIAN DETECTORS.

~~670-1-110 TRAFFIC CONTROLLER ASEMBLE IS TYPE 6 W/ ATC CONTROLLER NEMA.~~ ⚠

700-5-XX ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE SIDED AND FREE SWINGING MOUNTED EXCEPT WHERE NOTED. CONTRACTOR SHALL INSTALL ONE PHOTOCCELL PER INTERNALLY ILLUMINATED STREET NAME SIGN. PER THE FDOT PAY ITEM DETAIL, ALL MOUNTING HARDWARE IS INCLUDED IN THE SIGN PAY ITEM. PER MUTCD, USE CORRECT GREEN TRANSLUCENT FILM FOR SIGN PANEL.

715-11-XXX LUMINAIRE SHALL BE AUTOBAHN SERIES ATB2 LED (ATB2- P604, R4, 263 WATT, 3000K, MVOLT=120 VOLTS) AND EACH FIXTURE SHALL BE PROVIDED WITH PHOTOELECTRIC CELL. A SEPARATE CIRCUIT/BREAKER SHALL BE PROVIDE IN SIGNAL DISCONNECT FOR MAST ARMS WITH LUMINAIRES, COST OF WHICH IS INCLUDED UNDER THE PAY ITEM.



PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

Seal:

MAJHARUL ALAM, PE
P.E.# 61600

No.	Revisions	By	Date
1	NOTE REMOVED	DS	9/17/26

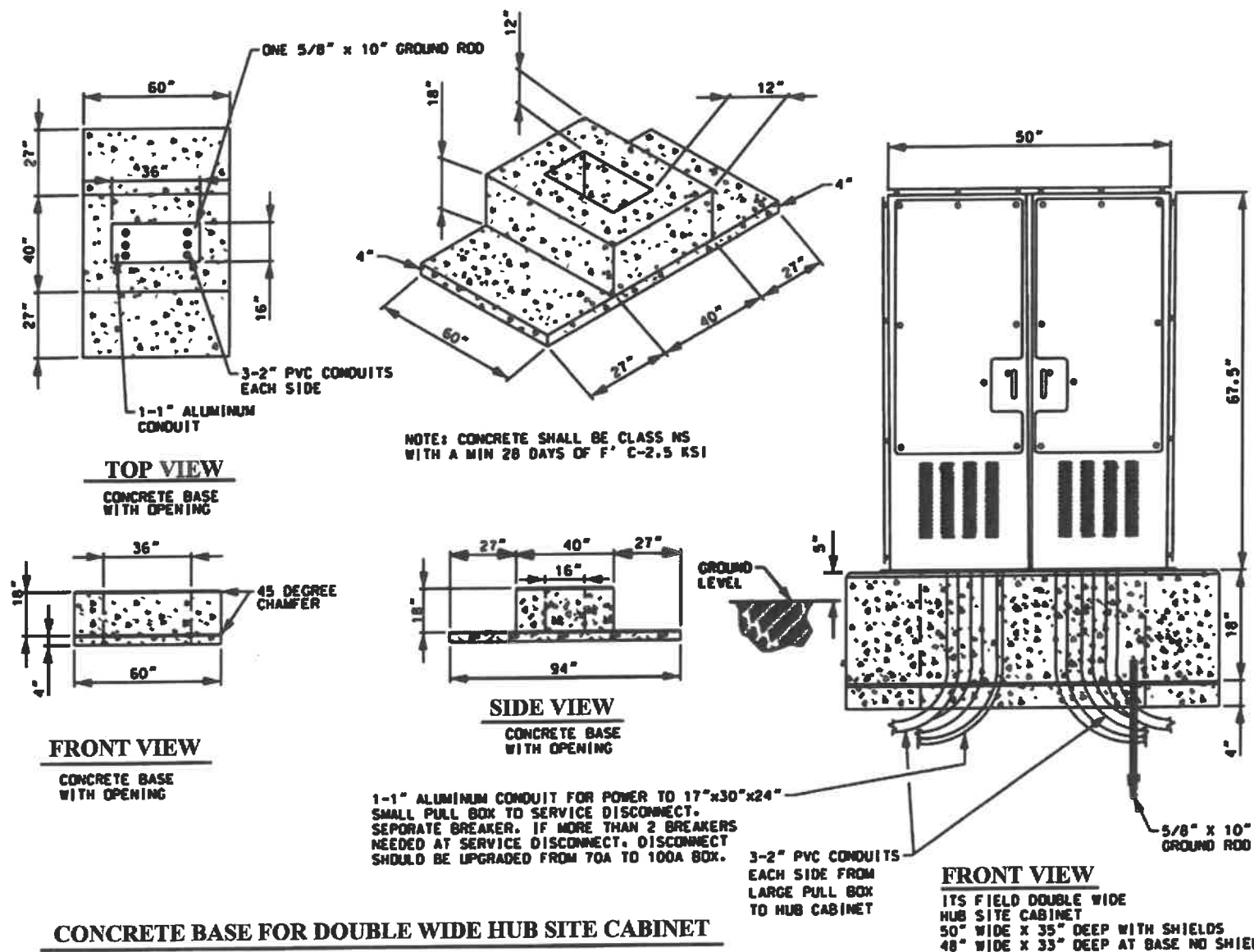


PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

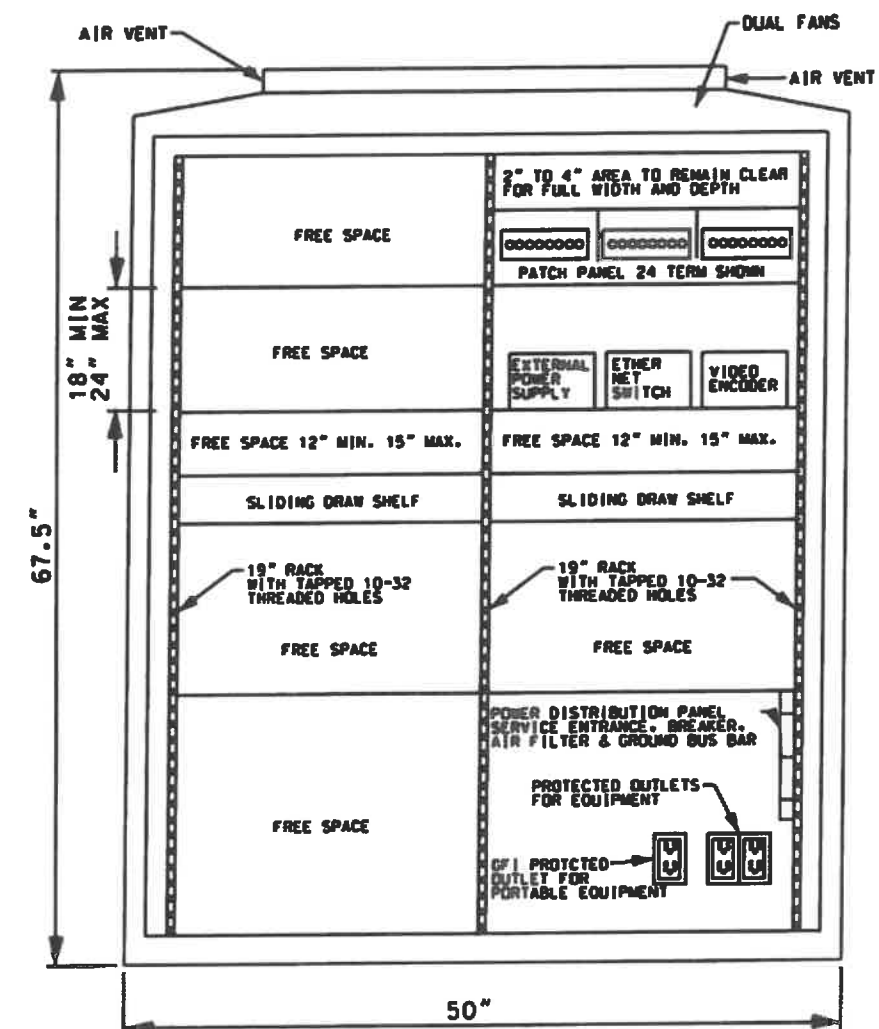
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APPROVED: MA
DRAWN: DS
CHECKED: IA
DATE: 9/23/2026

LYONS ROAD
L.W.D.D. L-30 CANAL TO BOYNTON BEACH BLVD.
GENERAL NOTES

SHEET: T-5
OF: T-12
PROJECT NO.
2018503

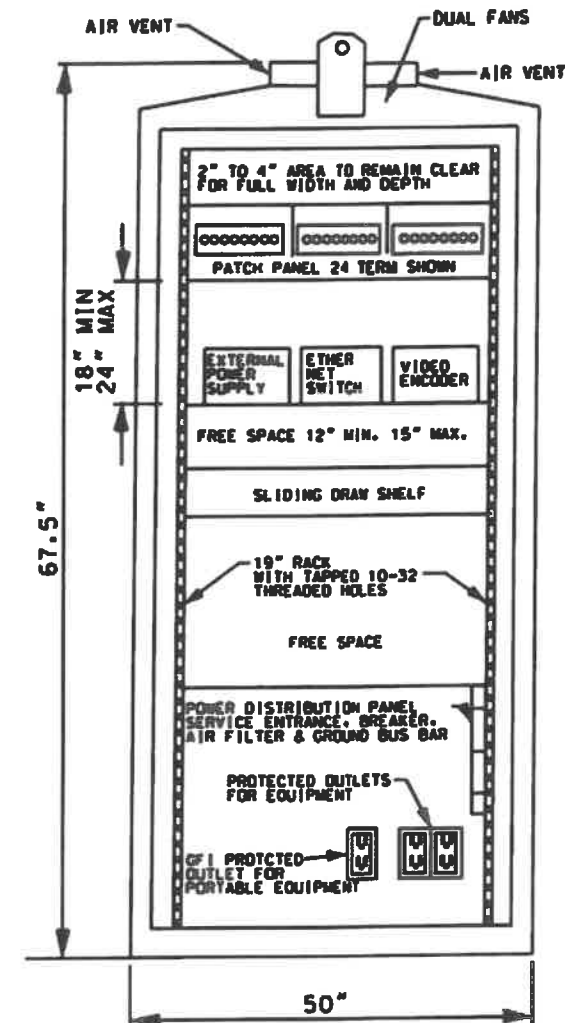


CONCRETE BASE FOR DOUBLE WIDE HUB SITE CABINET



FRONT VIEW

ITS FIELD DOUBLE WIDE HUB SITE CABINET



SIDE VIEW

Prepared By: Palm Beach County
Traffic Engineering ITS Section
2300 North Jog Road, 4th Floor
West Palm Beach, Florida 33411
(561) 684-4030 Fax (561) 681-4311

Project: Palm Beach County Traffic
Title: ITS DOUBLE WIDE HUB SITE FIELD CABINET

Drawing: Communications Cable
Title: Routing Plans

Design: Traffic Engineering

Checked:

Drawn: NICK ALEXANDRIAN

NO.	Date:	REVISION	BY	APP.	Communication Contract Number	
					Date: 9/16/2026	
					SCALE: NTS	Sheet No. T-14-C

BOARD OF COUNTY COMMISSIONERS
PBCWUD PROJECT NO. 24-019
LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD &
LYONS ROAD AND BOYNTON BEACH BLVD INTERSECTION IMPROVEMENTS
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

BOARD OF COUNTY COMMISSIONERS

PBCWUD PROJECT NO. 24-019

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD &
LYONS ROAD AND BOYNTON BEACH BLVD INTERSECTION IMPROVEMENTS
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

LYONS ROAD FROM LWDD L-30
CANAL TO BOYNTON BEACH BLVD
INDEX OF UTILITY PLANS

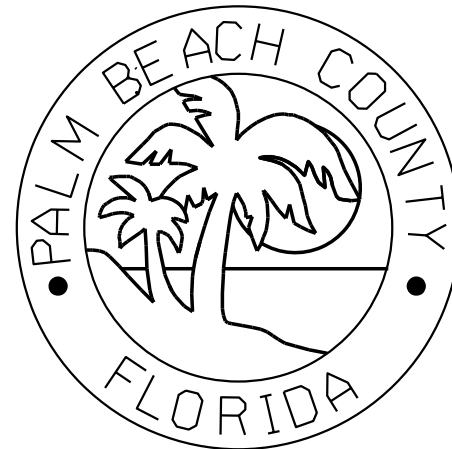
SHEET NO.	SHEET DESCRIPTION
UT-01	COVER SHEET
UT-02 thru UT-03	GENERAL NOTES
UT-04 thru UT-34	UTILITY PLAN (WM, FM, & RCWM)
UT-35 thru UT-38A	CONFLICT RESOLUTION DATA
UT-39 thru UT-51	TEST HOLE INFORMATION DATA
UT-52 thru UT-57	PCWUD POTABLE WATER STANDARD DETAILS
UT-58 thru UT-63	PCWUD WASTEWATER STANDARD DETAILS
UT-64 thru UT-69	PCWUD RECLAIMED WATER STANDARD DETAILS

Gregg K. Weiss
DISTRICT 2

Marci Woodward
DISTRICT 4

Sara Baxter
DISTRICT 6

Maria G. Marino
DISTRICT 1



Joel G. Flores
DISTRICT 3

Maria Sachs
DISTRICT 5

Bobby Powell Jr.
DISTRICT 7

100% DESIGN SUBMITTAL
09/25/2026



MASSE CONSULTING SERVICES, LLC
PROVIDING COST EFFECTIVE & SAFE DESIGNS

PLANS PREPARED BY:
KHAN, MD. ABUL BASHER, P.E.
MASSE CONSULTING SERVICES, LLC
2101 VISTA PARKWAY, SUITE 237
WEST PALM BEACH, FLORIDA 33411
PH. (561) 568-3197
www.masseconsulting.com

GOVERNING STANDARDS AND SPECIFICATIONS:

- 1) PALM BEACH COUNTY WATER UTILITIES MINIMUM
DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION)
- 2) THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD
SPECIFICATIONS AND BRIDGE CONSTRUCTION (LATEST EDITION)

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

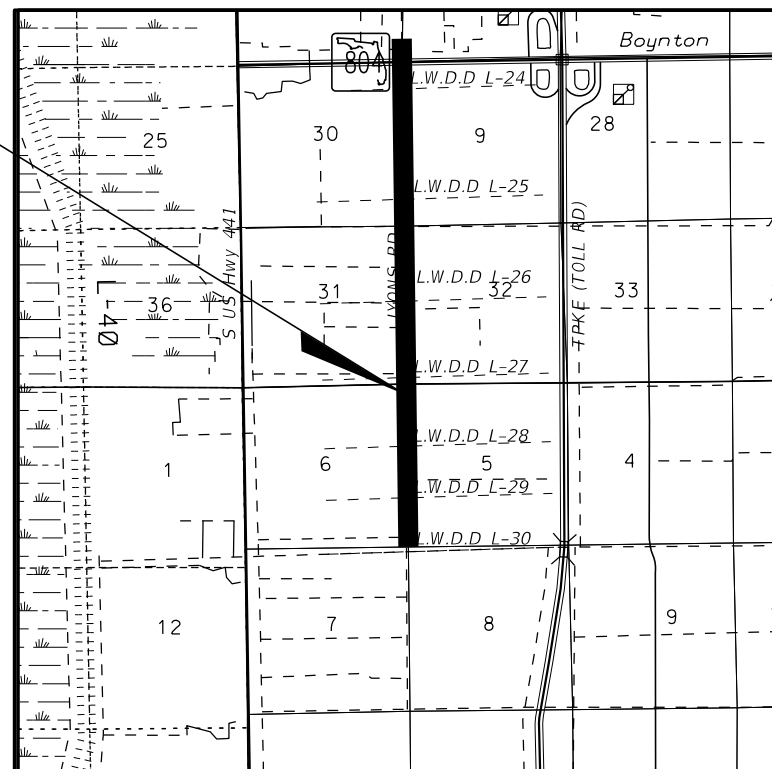
ENGINEERING CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN ARE IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS AND CRITERIA IN EFFECT ON THIS DATE FOR THE PALM BEACH COUNTY WATER UTILITIES DEPARTMENT AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION.

DATE _____

KHAN, MD. ABUL BASHER
PROFESSIONAL ENGINEER
NO. 53863, STATE OF FLORIDA

PROJECT LOCATION
LYONS ROAD



LOCATION MAP
TWP 42E, RNG 42E
N.T.S.

IT'S THE LAW !



CALL 48 HOURS BEFORE YOU DIG

1-800-432-4770

SUNSHINE STATE ONE CALL OF FLORIDA, INC.
UTILITIES NOTIFICATION CENTER

**PALM BEACH COUNTY
WATER UTILITIES DEPARTMENT
P.O. BOX 16097
WEST PALM BEACH, FLORIDA, 33416
(561) 493-6000**



NO.		FIELD BOOK NO.
REVISION		
BY	DATE	

SCALE: NTS
 APPROVED: BK
 DRAWN: FM
 CHECKED: FM
 DATE: 08/26

MASSE CONSULTING SERVICES, LLC
 KHAN, MD. ABUL BASHER
 PE LICENSE NO.: 53863 & COA 33487
 2101 VISTA PARKWAY, SUITE 237
 WEST PALM BEACH, FL 33411

LYONS ROAD

PBCWUD UTILITY RELOCATION (WM, FM, & RCWM)

COVER SHEET

SHEET: UT-01

OF: UT-69

NO. 24-019

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

C:\Users\Fenson\Masse\MASSE CONSULTING SERVICES\WCS DRIVE - Documents\PROJECTS - PBC\CADD FILES\FDOT\WUD LYONS_BBQ&D 5:29:57 AM Fenson\Masse BBB INTERSECTION - CADD UTILITIES\BORDEROI-UT-MCS - GNL NOTES.dgn

GENERAL NOTES

1. ALL WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING GOVERNING STANDARDS AND SPECIFICATIONS:

PBCWUD MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION)
FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION)

ANY CONFLICTS BETWEEN GOVERNING STANDARDS, SPECIFICATIONS, AND THE CONTRACT PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.

2. THE CONTRACTOR IS TO REQUEST A PRE-CONSTRUCTION MEETING FROM PBCWUD SEVEN (7) BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
3. ALL MATERIALS AND PRODUCTS SHALL BE INSPECTED AND APPROVED BY PBCWUD PRIOR TO ANY CONSTRUCTION ACTIVITIES.

4. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A NOTICE TO PROCEED BY PALM BEACH COUNTY WATER UTILITIES DEPARTMENT (PBCWUD). THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND/OR APPROVAL TO COMMENCE CONSTRUCTION. CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN (MOT) TO PALM BEACH COUNTY ENGINEERING DEPARTMENT FOR APPROVAL.

5. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD OR UNDERGROUND UTILITIES. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 353.851 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES AND CHAPTER 556 FOR THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.

6. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, BY DIALING 811 OR (800) 432-4770 TO REQUEST A LOCATE TICKET A MINIMUM OF 2 FULL BUSINESS DAYS IN ADVANCE OF ANY CONSTRUCTION.

7. CONTRACTOR SHALL MAINTAIN DRIVEWAY ACCESS FOR THE RESIDENTIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE FOR ANY REQUIRED INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT AND MATERIAL NECESSARY FOR INSPECTION AND/OR TEST.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED TESTS TO BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE ENGINEER. IF ANY TESTS FAIL TO MEET THEIR SPECIFICATIONS, THE CONTRACTOR, AT HIS EXPENSE, SHALL CORRECT ALL DEFICIENT WORK AND SUBMIT TEST RESULTS INDICATING COMPLIANCE WITH THE PROJECT'S SPECIFICATIONS.

10. CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF ALL EXISTING AND NEWLY INSTALLED ABOVE GROUND, UNDERGROUND STRUCTURES AND UTILITIES FROM DAMAGE OR SERVICE DISRUPTION.

11. THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT HAS BEEN ACCEPTED. ALL FAULTY CONSTRUCTION AND/OR MATERIALS FOUND DURING AFORESAID PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

12. WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH AND AREA DETERMINED BY THE ENGINEER AND BACKFILLED WITH CLEAN GRANULAR SAND OR SELECT MATERIAL APPROVED BY THE ENGINEER. BACKFILLING SHALL BE IN LAYERS NOT GREATER THAN 1' THICKNESS AND COMPACTED TO 98 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.

13. BENCHMARK (B.M.) DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (REFER TO THE SURVEY PREPARED BY STANTEC FOR THE ROADWAY PLANS). ANY NAVD 88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHALL NOTIFY: NATIONAL GEODETTIC INFORMATION SERVICES CENTER NOAA NATIONAL GEODETTIC SURVEY, N/CG 17 SSMC 3, STATION 09202 SILVER SPRING, MARYLAND 20910 TELEPHONE NO: (301) 713-3242.

14. EXISTING SECTION CORNERS, QUARTER SECTION CORNERS, PROPERTY CORNERS, PALM BEACH COUNTY SURVEY CONTROL MONUMENTS AND ALL OTHER PERMANENT MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION BY A PROFESSIONAL SURVEYOR & MAPPER WITH A MONUMENT BEARING EITHER THE FLORIDA LICENSE NUMBER OR CERTIFICATE OF AUTHORIZATION NUMBER OF THE PARTY IN RESPONSIBLE CHARGE.

15. WHEN UTILITY POLES ARE IN AREAS OF EXCAVATIONS, CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION OF FIVE (5') FEET BETWEEN THE POLE AND ANY EXCAVATION. IF THIS SEPARATION CAN NOT BE MET, CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER TO HOLD AND PROTECT POLE DURING CONSTRUCTION AT HIS EXPENSE.

16. EXISTING SPRINKLERS IN THE RIGHT-OF-WAY SHALL BE PROTECTED OR REPLACED AFTER CONSTRUCTION AT CONTRACTOR'S EXPENSE.

17. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AS AMENDED BY PALM BEACH COUNTY, AND PBCWUD MINIMUM DESIGN REQUIREMENTS.

18. CONTRACTOR SHALL MINIMIZE THE TRENCH WIDTH UNDER SWALE AREAS USING APPROPRIATE SHORING, IF NECESSARY, AT HIS OWN COST.

19. DENSITY TESTING FOR TRENCHES SHALL BE TAKEN IN ONE (1') FOOT LIFTS MEASURED FROM THE TOP OF PIPE. DENSITY TESTS ARE REQUIRED FOR ALL ROADWAY, DRIVEWAY AND SIDEWALK REPLACEMENT AREAS.

20. ALL PIPE TRENCHES SHALL BE DRY WHILE PIPE IS BEING LAID AND TO BE BEDDED PER DETAILS.

21. APPROVED RECORD DRAWINGS DOCUMENTS ARE REQUIRED ACCORDING TO PBCWUD MINIMUM DESIGN STANDARDS:
A. RECORD DRAWINGS SHALL BE PREPARED IN STATE PLANE COORDINATE SYSTEM.
B. ALL UTILITY FEATURES SHALL BE SHOWN IN THE AS-BUILT LOCATION.
C. STATE PLANE COORDINATES SHALL BE DISPLAYED ON RECORD DRAWINGS FOR ALL FEATURES SPECIFIED IN PBCWUD MINIMUM DESIGN STANDARDS.
D. ALL RECORD DRAWING INFORMATION MUST BE OBTAINED BY A PROFESSIONAL SURVEYOR AND MAPPER, WHO IS LICENSED IN THE STATE OF FLORIDA. THE SURVEYOR WILL BE RETAINED BY THE CONTRACTOR. INFORMATION MUST BE SIGNED AND SEALED.
E. AT THE CONCLUSION OF THE PROJECT, CONTRACTOR SHALL SUBMIT ELECTRONIC FILES AND UP TO THREE (3) SETS OF SIGNED AND SEALED PRINTS TO THE ENGINEER FOR PERMANENT RECORD KEEPING.

WATER, RECLAIMED, AND SEWER CONSTRUCTION NOTES:

1. THESE PLANS PERTAIN SOLELY TO THE CONSTRUCTION AND SPECIFIC REQUIREMENTS OF THE WATER MAIN (WM), RECLAIMED WATER MAIN (RCWM) AND FORCE MAIN (FM). THE CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR TO SEQUENCE ALL WATER MAIN, RECLAIMED WATER MAIN AND FORCE MAIN WORK IN CONJUNCTION WITH THE ROADWAY CONSTRUCTION ASSOCIATED WITH PALM BEACH COUNTY PROJECT NO. 2018503 & 2020110.

2. CONTRACTOR SHALL SUPPORT AND PROTECT THE EXISTING WATER MAIN, RECLAIMED WATER MAIN, AND FORCE MAIN DURING CONSTRUCTION UNTIL THE NEW WATER MAIN, RECLAIMED WATER MAIN, AND FORCE MAIN ARE CONSTRUCTED. CONTRACTOR MUST SUBMIT A PLAN AND SEQUENCE TO PBCWUD FOR THE PROTECTION OF THE WATER MAIN, RECLAIMED WATER MAIN, AND FORCE MAIN.

3. LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE BASED ON RECORD DRAWINGS PROVIDED BY PBCWUD AND ENGINEERING SURVEY FOR THE PROPOSED ROADWAY. IF ANY ATTEMPT HAS BEEN MADE TO PROVIDE ACCURATE DATA THE CONTRACTOR SHALL CONSIDER ALL LOCATIONS, ELEVATIONS, EXISTING PIPE SIZES, EXISTING PIPE MATERIALS TYPES, ANY EXISTING UTILITIES FEATURE PROPERTIES, ETC. ARE APPROXIMATE IN NATURE. PRIOR TO THE START OF CONSTRUCTION AND/OR ORDERING OF ANY MATERIALS OR FABRICATED ITEMS, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATIONS, ELEVATIONS, EXISTING PIPE SIZES, EXISTING PIPE MATERIALS TYPES, ANY EXISTING UTILITIES FEATURE PROPERTIES AT NO ADDITIONAL COST TO THE OWNER. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER STRUCTURES, UTILITIES, ETC. NOT SHOWN ON THE DRAWINGS EXIST WITHIN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AS-BUILT INFORMATION AND WRITTEN NOTIFICATION OF ALL CONFLICTS WITH THE PROPOSED CONSTRUCTION TO THE ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL ALL CONFLICTS HAVE BEEN RESOLVED.

4. WATER MAIN, RECLAIMED WATER MAIN, AND FORCE MAIN CONSTRUCTION SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY ADOPTED BY THE STATE OF FLORIDA D.E.P., PALM BEACH COUNTY H.R.S. AND PBCWUD.

5. ALL PROPOSED WATER MAIN, RECLAIMED WATER MAIN, AND FORCE MAIN SHALL HAVE MIN. 36" COVER. 30" COVER IS ACCEPTABLE WITH PBCWUD APPROVAL ON A CASE BY CASE BASIS.

6. POUR A 2X2' CONCRETE COLLAR TO GRADE IN VALVES LOCATED IN SODDED AREAS. SEE DETAILS 13W IN THE PBCWUD MINIMUM DESIGN STANDARDS.

7. CHANGES IN PIPE ALIGNMENT MAY BE ACCOMPLISHED USING APPROPRIATE FITTINGS OR THROUGH PIPE DEFLECTION. PIPE DEFLECTION AT THE JOINT IS ALLOWED WITH DUCTILE IRON PIPE AND WITH SPECIALLY DESIGNED PVC PIPES (SEE PBCWUD APPROVED MATERIALS LISTS). THE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION. NO DEFLECTION AT THE JOINT IS ALLOWED FOR PVC PIPE UNLESS ALLOWED BY THE PIPE MANUFACTURER. IF JOINT DEFLECTION IS NOT ALLOWED, PVC PIPE CURVATURE SHALL BE ACCOMPLISHED BY INSTALLING APPROPRIATE BENDS.

8. CONTRACTOR TO PRESSURE TEST THE NEW WATER MAIN PRIOR TO TIE IN.

9. POTABLE WATERMAIN SHALL BE MARKED WITH ONE CONTINUOUS STRIP OF 6" WIDE MAGNETIC BLUE CODED TAPE IMPRINTED WITH ONE AND ONE-HALF (1.5) INCH HIGH LETTERING READING "CAUTION WATER LINE BELOW" AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF THE PIPE. THE WORDING SHALL OCCUR EVERY THREE (3) FEET. BURIED DIP SMALLER THAN 24" SHALL BE PAINTED WITH A 4" WIDE CONTINUOUS BLUE LINE PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ON TOP OF PIPE.

10. FORCEMAIN SHALL BE MARKED WITH ONE CONTINUOUS STRIP OF SIX (6) INCH WIDE, BROWN CODED MAGNETIC TAPE IMPRINTED WITH ONE AND ONE-HALF (1.5) INCH HIGH LETTERING READING "CAUTION FORCE MAIN BELOW" AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF PIPE. THE WORDING SHALL OCCUR EVERY THREE (3) FEET.

11. RECLAIMED WATER MAINS SHALL BE MARKED WITH ONE CONTINUOUS STRIP OF 6" WIDE MAGNETIC PURPLE CODED TAPE IMPRINTED WITH ONE AND ONE-HALF (1 1/2) INCH HIGH LETTERING READING "CAUTION RECLAIMED WATER LINE BELOW", AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF THE PIPE. THE WORDING SHALL OCCUR EVERY THREE (3) FEET. BURIED DIP SMALLER THAN 24" SHALL BE PAINTED WITH A 4" WIDE CONTINUOUS PURPLE LINE PARALLEL TO THE TOP AXIS OF THE PIPE AND THAT IS LOCATED ON TOP OF PIPE.
12. CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S ACTIVITIES INVOLVING CONSTRUCTION, STAGING AREAS, AND ACCESS ROADS TO ORIGINAL OR BETTER CONDITION. CONTRACTOR TO PROVIDE VIDEO TAPING OF ENTIRE SCOPE OF WORK AREA PRIOR TO PRE-CONSTRUCTION MEETING. ALL DISTURBED NON-PAVED AREAS SHALL BE PLANTED WITH "IN-KIND" VEGETATION. THE CONTRACTOR SHALL GRADE SITE UNIFORMLY AND PROVIDE AN APPROVED FILL MATERIAL, FREE FROM ROCKS, ORGANIC MATERIAL AND OTHER EXTRANEOUS MATERIAL FOR BACKFILLING TO RESTORE AREAS DISTURBED BY CONSTRUCTION.
13. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE DEPICTING EACH PHASE OF THE WORK.
14. CONTRACTOR SHALL MAINTAIN A NEAT, ORDERLY, AND SAFE SITE AT ALL TIMES.
15. CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS SILT FENCES AND INLET PROTECTION WHERE NECESSARY IN ORDER TO COMPLY WITH THE STATE AND LOCAL WATER QUALITY STANDARDS AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
16. IF DEWATERING IS REQUIRED, CONTRACTOR MUST SUBMIT A DEWATERING PLAN TO SFWMU FOR APPROVAL PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE EXISTING FLOW CAPACITY, STORMWATER CONVEYANCE, AND FLOOD PROTECTION SYSTEMS FOR IMPACTED AREAS AT ALL TIMES DURING CONSTRUCTION.
17. ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF PBCWUD, PALM BEACH COUNTY ENGINEERING DEPARTMENT, ENGINEER, AND REGULATORY AGENCIES.
18. THE CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO CONSTRUCTION.
19. THE CONTRACTOR SHALL COORDINATE WITH PBCWUD FOR THE SELECTION OF PROPOSED CONSTRUCTION STAGING AREAS AND/OR STOCKPILING OF MATERIALS.
20. WORK HOURS AS ALLOWED BY PALM BEACH COUNTY AND/OR PERMITTING AGENCY.
21. CONTRACTOR SHALL LIMIT ACCESS AND CONSTRUCTION OPERATIONS TO WITHIN LIMITS OF THE ROADWAY AND CANAL RIGHT OF WAY AND THE UTILITY EASEMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY.
22. AREAS FOR THE STORAGE OF EXCAVATED MATERIAL ARE LIMITED. SUCH MATERIAL MAY BE REMOVED AND STORED OFFSITE AND IF NECESSARY, RETURNED FOR BACKFILLING. UNSUITABLE MATERIAL SHALL NOT BE RETURNED FOR BACKFILLING. ALL COSTS ARE INCIDENTAL TO THE PROJECT.
23. ALL EXCESS FILL FROM THE SITE SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE CONTRACTOR.
24. CONTRACTOR SHALL HAVE NO TRENCHES OPEN AT THE END OF EACH WORKDAY. IF NECESSARY, TRENCHES SHALL BE TEMPORARILY BACKFILLED AND BARRICADED.
26. ALL NEW PIPE FITTINGS, VALVES AND MATERIALS SHALL COMPLY WITH THE LATEST PBCWUD MINIMUM DESIGN STANDARDS AND APPROVED MATERIALS LIST.
27. CONTRACTOR SHALL BE REQUIRED TO FURNISH WATER AND COORDINATE WITH THE PBCWUD FOR USE OF A HYDRANT METER FOR POTABLE WATER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS AND EQUIPMENT.
28. COORDINATE WITH PBCWUD TO CLOSE OR OPEN ANY EXISTING VALVES REQUIRED TO FACILITATE CONSTRUCTION, ONE WEEK IN ADVANCE.
29. ALL BRASS COMPONENTS IN CONTACT WITH POTABLE WATER SHALL BE LEAD FREE.
30. ALL STRUCTURE COORDINATES ARE FOR THE CENTER OF THE STRUCTURE, UNLESS OTHERWISE NOTED.
31. ALL WATERMAIN SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 AND FLORIDA ADMINISTRATIVE CODE, CHAPTER 62-555. CONTRACTOR SHALL REPEAT THIS PROCEDURE, IF NECESSARY, UNTIL ALL WATERMAIN PASSES BACTERIOLOGICAL TESTING. THE COST FOR ALL DISINFECTION SHALL BE INCLUDED IN THE COST PER LINEAR FOOT OF THE PIPE.
32. ALL NEWLY INSTALLED WATERMAIN SHALL NOT BE PLACED INTO SERVICE UNTIL APPROVAL BY THE PALM BEACH COUNTY HEALTH DEPARTMENT OR PBCWUD. BEFORE RECEIVING THIS APPROVAL, THE FOLLOWING ARE REQUIRED:
A. FLUSHING AND PRESSURE TEST.
B. DISINFECTION AND PASSING BACTERIOLOGICAL TESTS FOR TWO CONSECUTIVE DAYS (WATERMAIN ONLY).
C. RECORD DRAWINGS PREPARED BY THE CONTRACTOR'S REGISTERED LAND SURVEYOR DETAILING RECORD ELEVATIONS, LOCATION INFORMATION, AND OTHER CHANGES MADE DURING CONSTRUCTION.
33. PIPELINES SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE PIPELINE SHALL BE INSTALLED WITHOUT ADDITIONAL LOW POINTS OR HIGH POINTS EVEN THOUGH THE DEPTH OF COVER MAY INCREASE FOR A DISTANCE. FAILURE TO FOLLOW THIS CRITERIA MAY RESULT IN THE REQUIREMENT FOR AIR RELEASE VALVES AND MANHOLES WHICH SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSE. DURING CHANGES IN PIPELINE VERTICAL GRADE, MAINTAIN A CONSTANT UP-SLOPE OR DOWN-SLOPE TO THE MAXIMUM EXTENT POSSIBLE.

34. ALL AFFECTED UTILITY MANHOLES AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AND PROPERLY SET TO PAVEMENT CROSS SLOPE. CONTRACTOR SHALL ADJUST MANHOLE COVERS AND VALVE BOXES WITHIN THE LIMITS OF CONSTRUCTION, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE INSTALLING PAVEMENT OR FINAL LIFT OF ASPHALT.
35. EXISTING STORM PIPES AND/OR STRUCTURES AFFECTED BY CONSTRUCTION OF UTILITIES SHALL INCLUDE CLEANING AND FULL RESTORATION OF THE AFFECTED SYSTEMS TO LIKE OR BETTER CONDITION IN ACCORDANCE WITH THE SYSTEM OWNER REQUIREMENTS.
36. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE ROAD CONTRACTOR SHALL SURVEY AND DOCUMENT THE EXISTING HORIZONTAL LOCATIONS OF ALL WUD FACILITIES WITHIN THE ROAD PROJECT LIMITS, INCLUDING BUT NOT LIMITED TO, VALVE BOXES, MANHOLE COVERS, METER BOXES, FIRE HYDRANTS, AND OTHER WUD APPURTENANCES, IN COORDINATION WITH THE PALM BEACH COUNTY WATER UTILITIES DEPARTMENT (WUD). THE ROAD CONTRACTOR SHALL PROVIDE WUD WITH A SURVEY REPORT IDENTIFYING THE GPS COORDINATES FOR EACH WUD FACILITY.
37. DURING ROADWAY CONSTRUCTION, THE ROAD CONTRACTOR SHALL PROTECT ALL WUD FACILITIES AND ADJUST THEM, AS NECESSARY, TO MATCH THE FINAL ROADWAY GRADES AND MAINTAIN PROPER ACCESS.
38. UPON COMPLETION OF ROADWAY CONSTRUCTION, INCLUDING FINAL GRADING AND PAVING, THE ROAD CONTRACTOR SHALL RE-SURVEY ALL WUD FACILITIES IN COORDINATION WITH WUD TO VERIFY THAT THEY HAVE NOT BEEN COVERED, BURIED, PAVED OVER, OR OTHERWISE OBSTRUCTED BY ASPHALT, DIRT, OR OTHER CONSTRUCTION MATERIALS, AND THAT THEY REMAIN READILY ACCESSIBLE TO WUD.
39. THE ROAD CONTRACTOR SHALL ENSURE THAT NO WUD FACILITY IS COVERED, BURIED, PAVED OVER, OBSTRUCTED, OR OTHERWISE RENDERED INACCESSIBLE AT ANY TIME DURING OR AFTER CONSTRUCTION. ALL WUD FACILITIES SHALL REMAIN READILY ACCESSIBLE TO WUD PERSONNEL AND EQUIPMENT FOR OPERATION, MAINTENANCE, EMERGENCY RESPONSE, AND REPAIR.
40. ANY WUD FACILITY REQUIRING ADJUSTMENT SHALL BE COORDINATED WITH WUD PRIOR TO PERFORMING THE ADJUSTMENT. THE ROAD CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING OR ADJUSTING ANY WUD FACILITY AFFECTED BY THE CONSTRUCTION

RECORD DRAWING NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS WITH CURRENT FIELD CHANGES ACCURATELY MARKED AND SHALL DELIVER THESE PLANS TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION. THE CURRENT MARKINGS SHALL BE REVIEWED WITH THE ENGINEER DAILY, OR AS NEEDED. THE CONTRACTOR WILL PROVIDE IN-PROGRESS PROJECT RECORD DRAWING FOR THE WORK THAT HAS BEEN COMPLETED THAT IS PREPARED BY A STATE OF FLORIDA CERTIFIED PROFESSIONAL SURVEYOR AND MAPPER EVERY MONTH WITH THE PAY APPLICATION OR UPON REQUEST FROM THE ENGINEER OF RECORD OR THE OWNER; OTHERWISE THE OWNER MAY WITHHOLD THE MONTHLY PAY APPLICATION UNTIL THE CONTRACTOR SUBMITS AN APPROVED IN-PROGRESS AS-BUILTS. THE CONTRACTOR WILL PREPARE A COMPLETE SET OF PROJECT RECORD DRAWINGS AT THE CONCLUSION OF THE PROJECT BASED ON THE MARK-UP DRAWINGS TO REFLECT ACTUAL "AS-BUILT" CONDITIONS.
2. RECORD DRAWINGS SHALL BE PREPARED IN THE STATE PLAN COORDINATE SYSTEM.
3. ALL UTILITY FEATURES SHALL BE SHOWN IN THEIR AS-BUILT LOCATION.
4. STATE PLANE COORDINATES SHALL BE DISPLAYED ON RECORD DRAWINGS FOR ALL FEATURES SPECIFIED IN PBCWUD MINIMUM DESIGN AND CONSTRUCTION STANDARDS SECTION 6, PROJECT COMPLETION REQUIREMENTS.
5. STATE PLANE COORDINATE SHALL BE SHOWN ON PROPERTY CORNERS AS REQUIRED BY PBCWUD.

TEMPORARY FORCEMAIN BY-PASS

1. CONTRACTOR SHALL PROVIDE A TEMPORARY BY-PASS FOR FORCEMAIN CONSTRUCTION. CONTRACTOR SHALL PREPARE A TEMPORARY BY-PASS PLAN, COORDINATE WITH PBCWUD FOR THE TEMPORARY BY-PASS SET UP, AND OBTAIN APPROVAL FROM PBCWUD PRIOR TO CONSTRUCTION. A STAND-BY VACUUM TRUCK MAY BE REQUIRED AT LIFT STATION IN CASE OF EMERGENCY.
2. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHOD FOR THE TEMPORARY BY-PASS OPERATION.
3. CONTRACTOR TO COORDINATE THE FM SHUTDOWN AND PROVIDE AT LEAST A MINIMUM 7 BUSINESS DAY ADVANCE NOTICE TO PBCWUD FOR ANY SHUTDOWNS. LINES TOPS MAY BE UTILIZED FOR THE SHUTDOWN.

LEGENDS

- Be(D)--- EXIST. BURIED ELECTRIC CABLE (LEVEL D)
---BFOC(D)--- EXIST. BURIED FIBER OPTIC CABLE (LEVEL D)
---BT(D)--- EXIST. BURIED TELEPHONE CABLE (LEVEL D)
---BTV(D)--- EXIST. BURIED TELEPHONE TV CABLE (LEVEL D)
---G(D)--- EXIST. GAS MAIN (LEVEL D)
----OE---- EXIST. OVERHEAD ELECTRIC CABLE
----OT---- EXIST. OVERHEAD TELEPHONE CABLE
----S(B)---- EXIST. FORCE MAIN (LEVEL B)
----S(D)---- EXIST. FORCE MAIN (LEVEL D)
---W(B)--- EXIST. WATER MAIN (LEVEL B)
---W(D)--- EXIST. WATER MAIN (LEVEL D)
- ✕ EXISTING VALVE
➡ PROPOSED VALVE
📍 SAMPLE POINT
🕒 TEST HOLE
🔥 FIRE HYDRANT (EXIST.)
🔥 FIRE HYDRANT (PROP.)

ABBREVIATIONS

- ARV AIR RELEASE VALVE
BOP BOTTOM OF PIPE
BFV BUTTERFLY VALVE
CLR CLEARANCE
DIP DUCTILE IRON PIPE
E EASTING
EL. ELEVATION
ELEV. ELEVATION
EOP EDGE OF PAVEMENT
EX. EXISTING
EXIST. EXISTING
FM FORCEMAIN
GV GATE VALVE
HORIZ. HORIZONTAL
MH MANHOLE
MJ MECHANICAL JOINT
N NORTHING
PROP. PROPOSED
PVC POLYVINYL CHLORIDE PIPE
PBCWUD PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
SP SAMPLE POINT
SS SANITARY SEWER
SEP. SEPARATION
RJ RESTRAIN JOINTS
RCWM RECLAIMED WATER MAIN
TOP TOP OF PIPE
TH TEST HOLE
VERT. VERTICAL
WM WATERMAIN



MASSE CONSULTING SERVICES, LLC
KHAN, MD. ABUL BASHER
PE LICENSE NO.: 53863 & COA 33487
2101 VISTA PARKWAY, SUITE 237
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NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FL 33406

SCALE: NTS
APPROVED: BK
DRAWN: FM
CHECKED: FM
DATE: 08/26

GENERAL NOTES

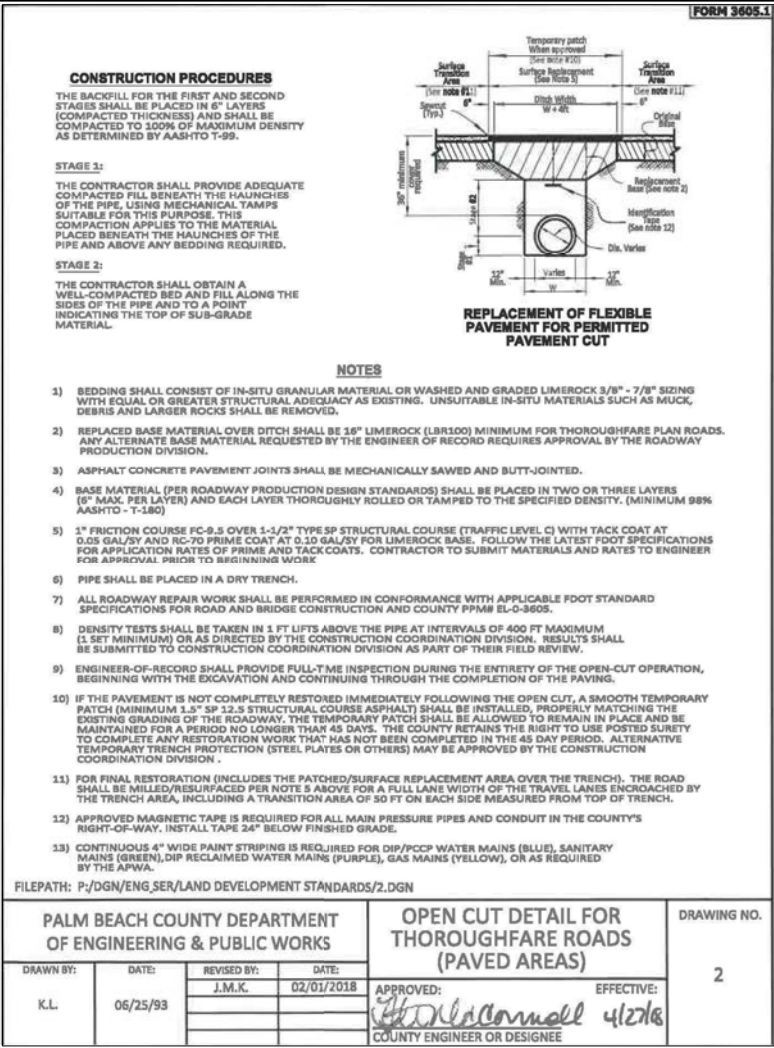
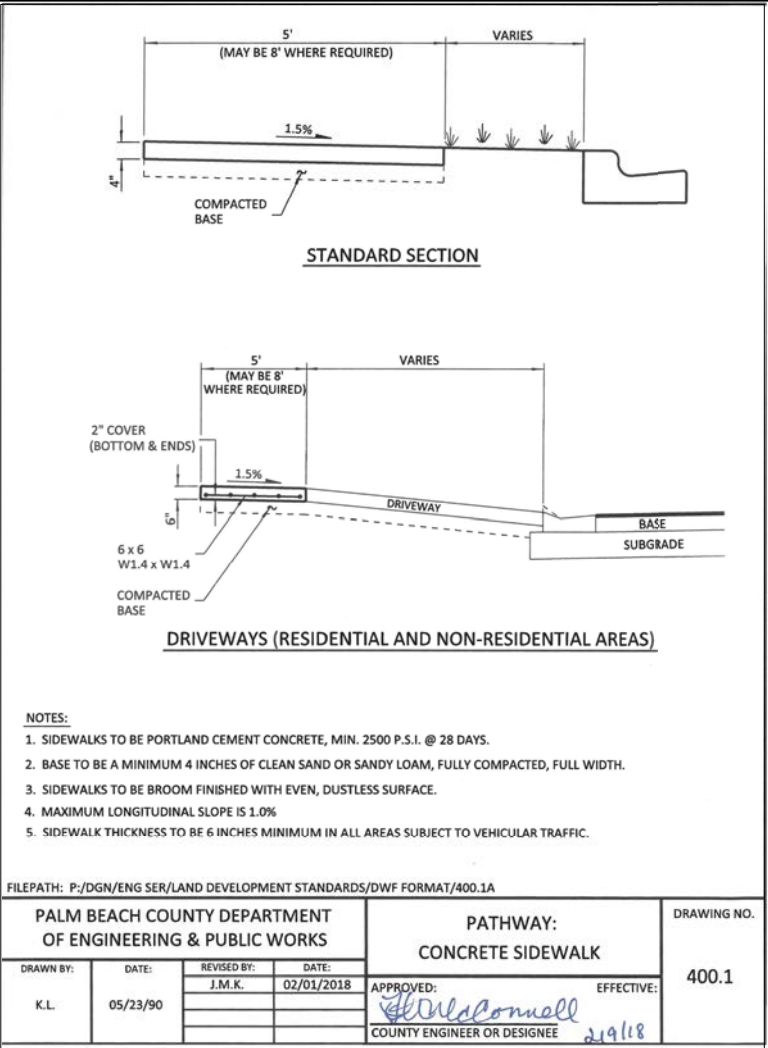
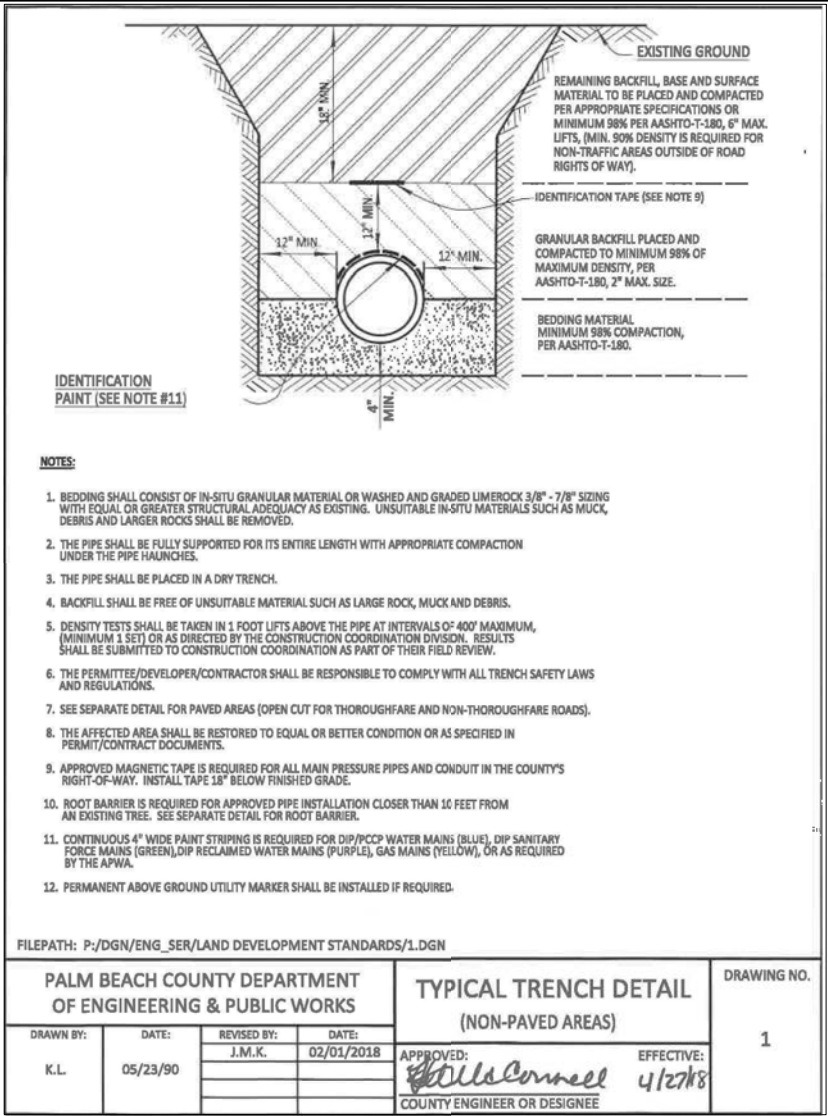
LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-02
OF: UT-69
WUD PROJECT
NO. 24-019

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PBC TRAFFIC DIVISION NOTES

- CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT 561-233-3900 FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT.
- DAMAGE TO LOOPS OR ANY SIGNAL EQUIPMENT CAUSED BY THE CONSTRUCTION OF THIS PROJECT MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM BEACH COUNTY.
- NO EXCAVATION AROUND PALM BEACH COUNTY SIGNAL POLES WITHIN A 6 FOOT RADIUS FROM THE CENTER OF THE POLE AND 6 FEET AROUND THE GUY WIRE ANCHOR ROD. NO EXCAVATION BETWEEN PBC SIGNAL POLES AND SUPPORTING GUY WIRE ANCHOR ROD. PLEASE SEE PALM BEACH COUNTY TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS 2024 DRAWING T-5.4.

PBC ROAD & BRIDGE DIVISION NOTES

- ANY AND ALL PB COUNTY STORM DRAIN / SIDEWALK / PATHWAY / C&G / ADA AND OR ADDITIONAL ROADWAY THAT IS AFFECTED BY THE PROPOSED CONSTRUCTION MUST BE RESTORED TO LIKE OR BETTER THAN LIKE CONDITION TO INCLUDE ALL APPLICABLE FDOT / PB COUNTY DETAILS AND SPECIFICATIONS (APPLICABLE THOROUGHFARE / NON-THOROUGHFARE).
- SIDEWALK AFFECTED TO INCLUDE ONE FLAG ON EITHER SIDE OF THE DISTURBED AREA. SIDEWALKS WILL BE RESTORED BY REPLACING TWO FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED AT A CONTROL JOINT AND THREE FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED BETWEEN CONTROL JOINTS. NO PARTIAL JOINTS ACCEPTED. (PER SITUATION)
- ROADWAY LANES AFFECTED WILL REQUIRE THE AFFECTED LANES AND/OR ADDITIONAL LANES BE RESTORED TO LIKE OR BETTER THAN LIKE CONDITION AND TO EQUAL DIMENSIONS AS THE ADJACENT LANES (EOP TO EOP).
- ALL AFFECTED ROADWAYS ARE TO BE RESTORED FROM EOP TO EOP, LANE WIDTH MIN. AND 50 FT IN EITHER DIRECTION (THOROUGHFARE) AND 25FT MIN. RESTORATION (NON-THOROUGHFARE).
- MILL AND PAVE TRANSITION AREA IN PALM BEACH COUNTY R/W, (ADD NAME OF STREET(S)) WILL BE REQUIRED TO INCLUDE THE INTERSECTION IN ITS ENTIRETY, (25 FT IN ALL DIRECTIONS).
- FLOW ABLE FILL IS NOT AN APPROVED WEAR COURSE IN PB COUNTY. PBC THOROUGHFARE ROAD RESTORATION DETAIL / LANE WIDTH NEEDS TO REFLECT A MIN. 50' OUTSIDE THE PC IN ALL DIRECTIONS.
- IF PROPOSED CONSTRUCTION/CROSSING ANY EXISTING PB COUNTY STORM DRAIN PIPE/STRUCTURES ARE AFFECTED IN ANY WAY. PB COUNTY R&B REQUIRES FULL RESTORATION OF THE AFFECTED SYSTEM TO LIKE OR BETTER THEN LIKE CONDITION AND TO PB COUNTY/FDOT STANDARD.
- ANY DRAINAGE SWALES AFFECTED BY THE PROPOSED CONSTRUCTION, SHALL BE RESTORED TO LIKE OR BETTER THEN LIKE CONDITION TO INCLUDE ORIGINAL DESIGN ELEVATIONS.



MASSE CONSULTING SERVICES, LLC
KHAN, MD. ABUL BASHER
PE LICENSE NO.: 53863 & COA 33487
2101 VISTA PARKWAY, SUITE 237
WEST PALM BEACH, FL 33411

NO.	REVISION	BY	DATE



**PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION**
P.O. BOX 21229, WEST PALM BEACH, FL 33406

SCALE: NTS
APPROVED: BK
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DATE: 08/26

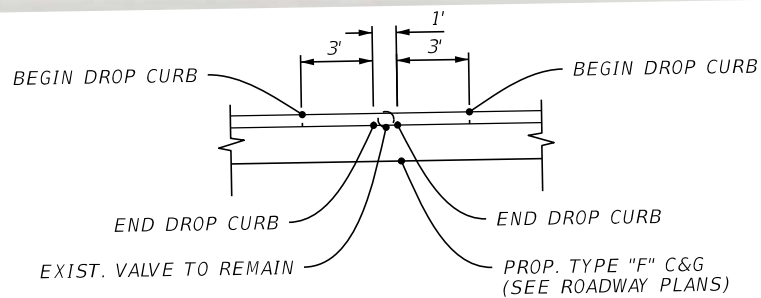
GENERAL NOTES

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-03
OF: UT-69
WUD PROJECT
NO. 24-019

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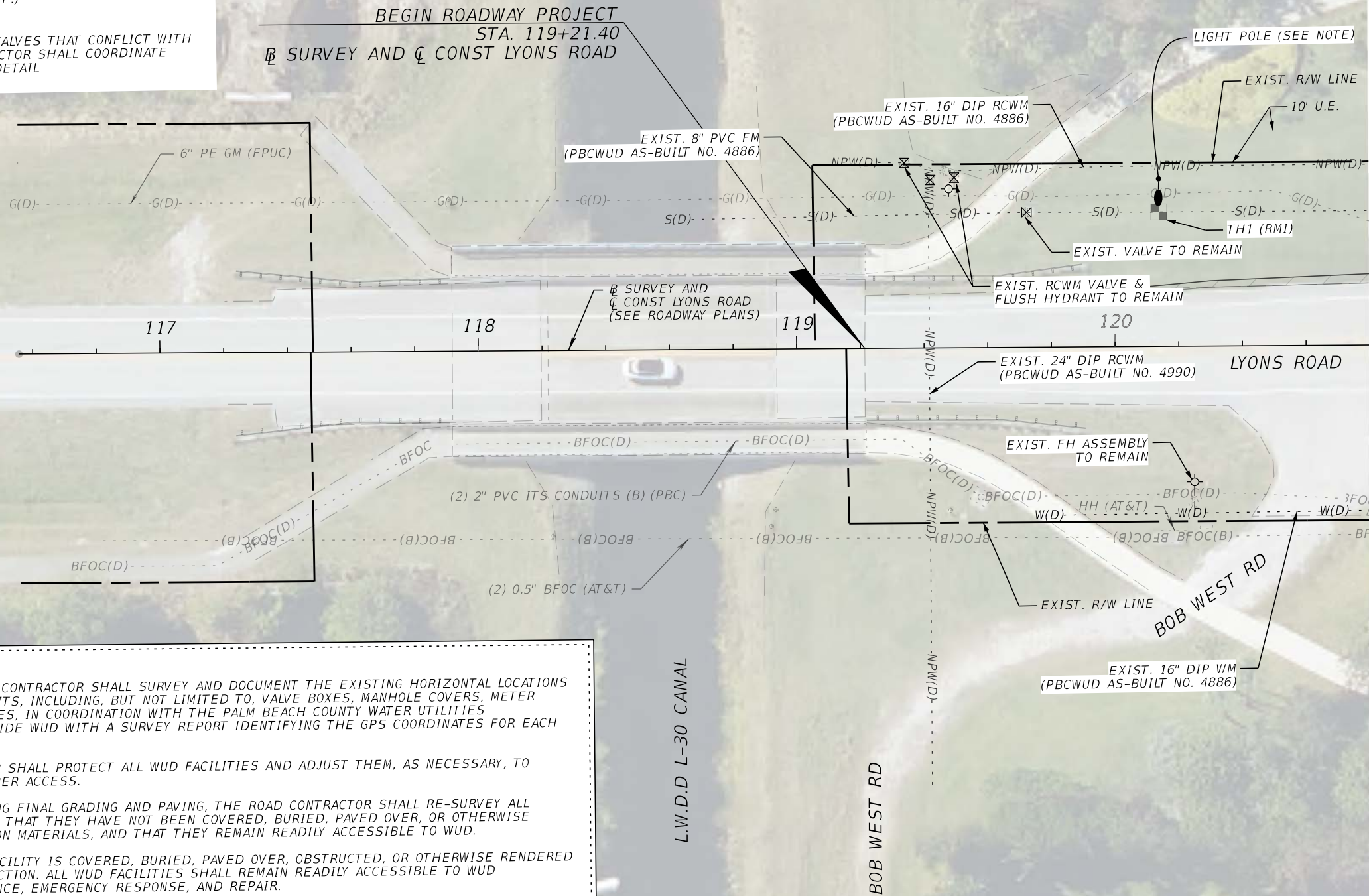
PROP. TYPE "F" C&G & WUD EXIST. VALVE
CONFLICT RESOLUTION DETAIL (TYP.)

NOTE

THIS DETAIL IS INTENDED TO ADDRESS EXISTING WUD VALVES THAT CONFLICT WITH THE PROPOSED TYPE "F" CURB AND GUTTER. THE CONTRACTOR SHALL COORDINATE WITH THE ROADWAY EOR PRIOR TO IMPLEMENTING THIS DETAIL

LIGHT POLE NOTE

PROPOSED LIGHT POLES WILL BE RELOCATED WITHIN THE EASEMENT AREA TO AVOID CONFLICTS WITH EXISTING PBCWUD UTILITIES. REVISED LIGHTING PLANS SHOWING THE FINAL POLE LOCATIONS ARE PENDING.



NOTES

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DURING ROADWAY CONSTRUCTION, THE ROAD CONTRACTOR SHALL PROTECT ALL WUD FACILITIES AND ADJUST THEM, AS NECESSARY, TO MATCH THE FINAL ROADWAY GRADES AND MAINTAIN PROPER ACCESS.

UPON COMPLETION OF ROADWAY CONSTRUCTION, INCLUDING FINAL GRADING AND PAVING, THE ROAD CONTRACTOR SHALL RE-SURVEY ALL WUD FACILITIES IN COORDINATION WITH WUD TO VERIFY THAT THEY HAVE NOT BEEN COVERED, BURIED, PAVED OVER, OR OTHERWISE OBSTRUCTED BY ASPHALT, DIRT, OR OTHER CONSTRUCTION MATERIALS, AND THAT THEY REMAIN READILY ACCESSIBLE TO WUD.

THE ROAD CONTRACTOR SHALL ENSURE THAT NO WUD FACILITY IS COVERED, BURIED, PAVED OVER, OBSTRUCTED, OR OTHERWISE RENDERED INACCESSIBLE AT ANY TIME DURING OR AFTER CONSTRUCTION. ALL WUD FACILITIES SHALL REMAIN READILY ACCESSIBLE TO WUD PERSONNEL AND EQUIPMENT FOR OPERATION, MAINTENANCE, EMERGENCY RESPONSE, AND REPAIR.

ANY WUD FACILITY REQUIRING ADJUSTMENT SHALL BE COORDINATED WITH WUD PRIOR TO PERFORMING THE ADJUSTMENT. THE ROAD CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING OR ADJUSTING ANY WUD FACILITY AFFECTED BY THE CONSTRUCTION



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KHAN, MD. ABUL BASHER
PE LICENSE NO.: 53863 & COA 33487
2101 VISTA PARKWAY, SUITE 237
WEST PALM BEACH, FL 33411

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PALM BEACH COUNTY
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P.O BOX 21229, WEST PALM BEACH, FL 33406

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DATE: 08/26

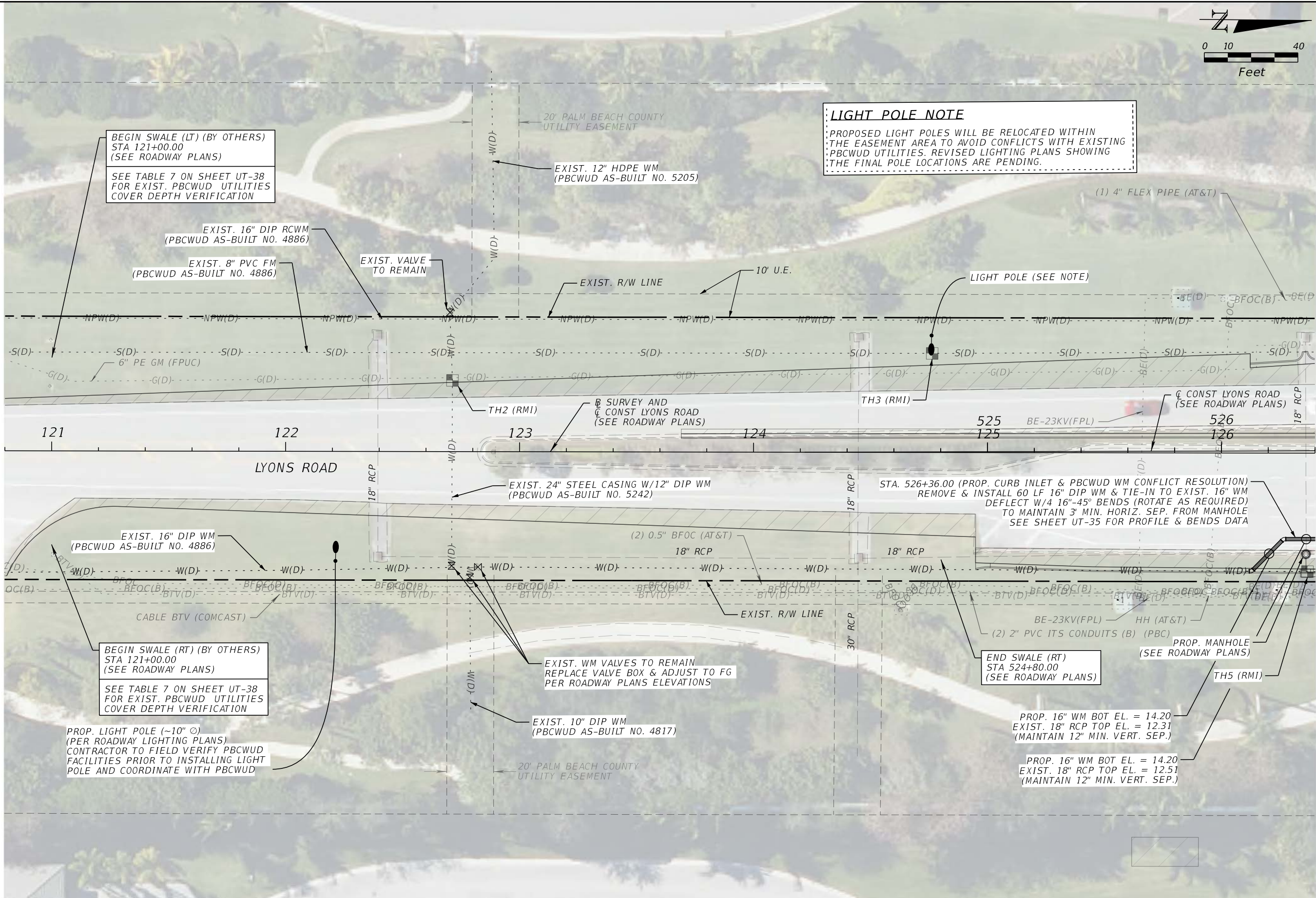
UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-04
OF: UT-69
WUD PROJECT
NO. 24-019

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KHAN, MD. ABUL BASHER
PE LICENSE NO.: 53863 & COA 33487
2101 VISTA PARKWAY, SUITE 237
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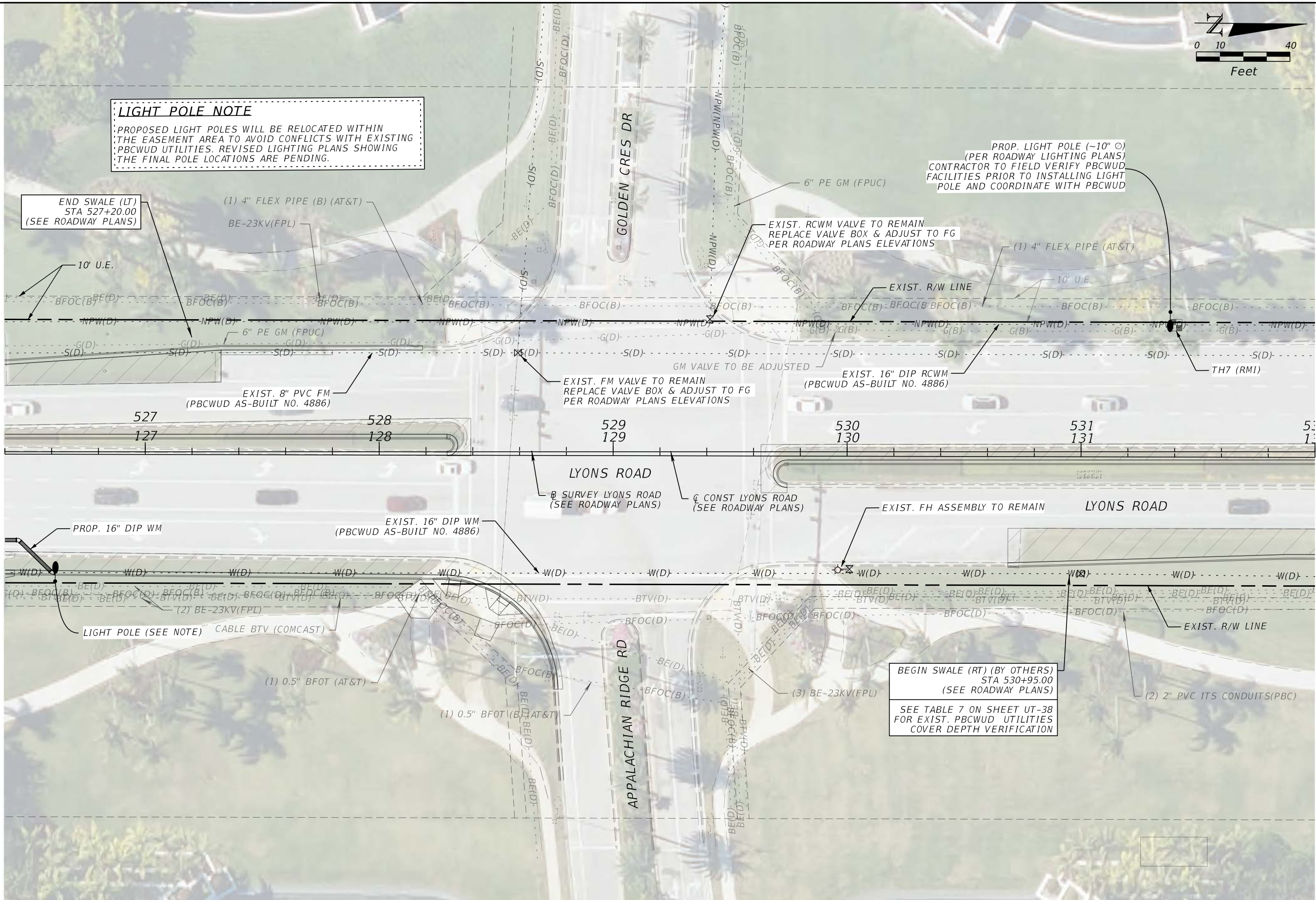
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UTILITY PLAN

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(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-05
OF: UT-69
WUD PROJECT
NO. 24-019

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MASSE CONSULTING SERVICES, LLC
Khan, Md. Abul Basher
PE License No.: 53863 & COA 33487
2101 Vista Parkway, Suite 237
West Palm Beach, FL 33411

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PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FL 33406

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UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-06

OF: UT-69

WUD PROJECT
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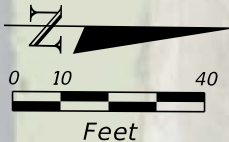
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DRAWN: FM
CHECKED: FM
DATE: 08/26

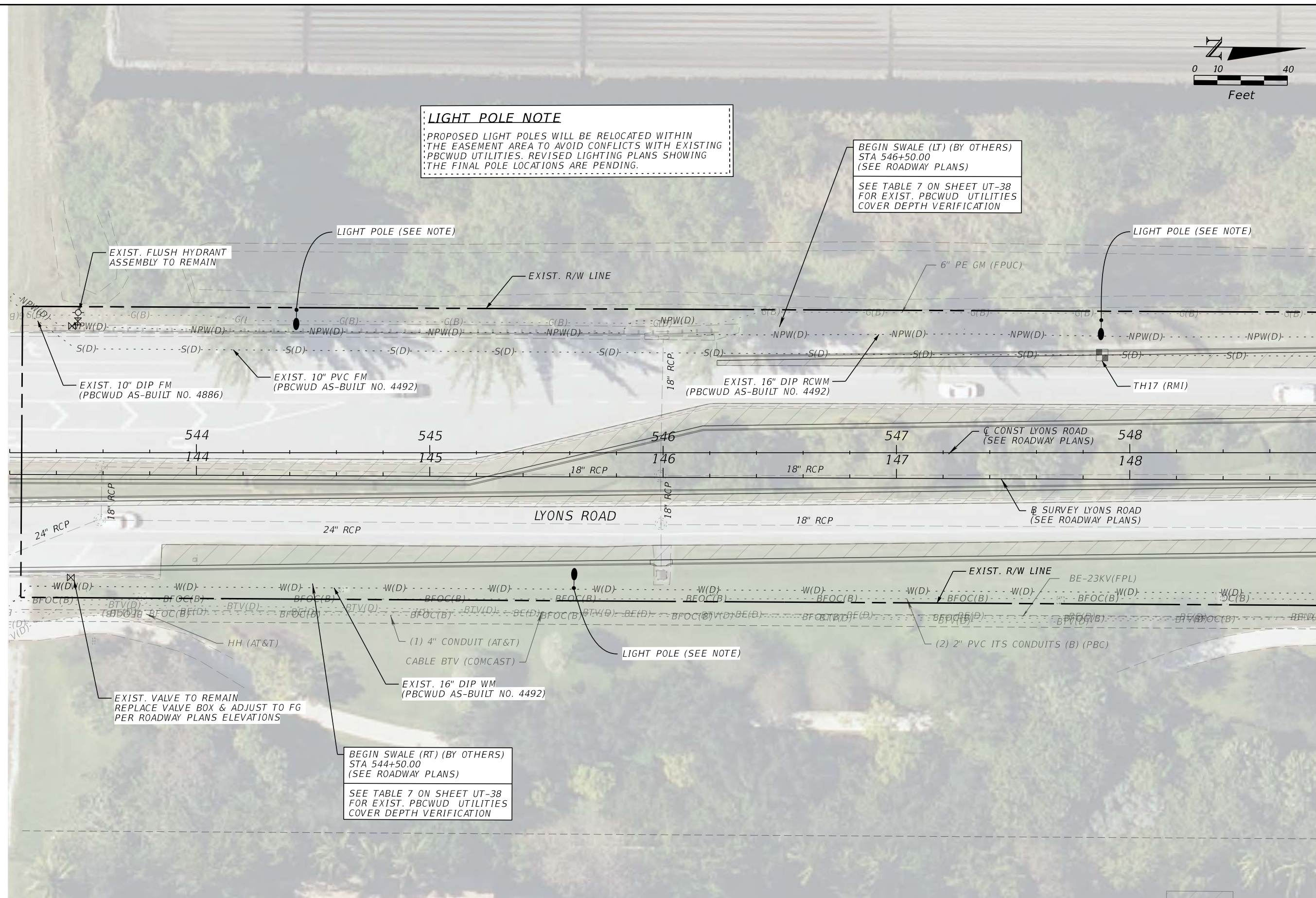
UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD (PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-07
OF: UT-69
WUD PROJECT
NO. 24-019

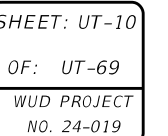


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NO.	REVISION	BY	DATE





PROPOSED LIGHT POLES WILL BE RELOCATED WITHIN THE EASEMENT AREA TO AVOID CONFLICTS WITH EXISTING PBCWUD UTILITIES. REVISED LIGHTING PLANS SHOWING THE FINAL POLE LOCATIONS ARE PENDING.



PROP. BOT 12" STORM PIPE EL. 14.83
PROP. SWALE FG EL. 17.00
(PER ROADWAY PLANS)
EXIST. 16" DIP RCWM TOP EL. 13.91
(PER ZEMAN TH75 DATA)
CLEARANCE = 11.04", COVER = 37.08"
NO RELOCATION REQUIRED
(CONTRACTOR TO FIELD VERIFY)

END SWALE (LT)
STA 556+20.00
(SEE ROADWAY PLANS)

- LIGHT POLE (SEE NOTE)

BEGIN SWALE (LT) (BY OTHERS)
STA 559+60.00
(SEE ROADWAY PLANS)

SEE TABLE 7 ON SHEET UT-38
FOR EXIST. PBCWUD UTILITIES
COVER DEPTH VERIFICATION

— TH75 (ZEMAN)

—EXIST. R/W LINE

— EXIST. 16" DIP RCWM
(PBCWUD AS-BUILT NO. 4492)

6" PE GM (FPUC)

EXIST. 10" PVC FM
(PBCWUD AS-BUILT NO. 4492)

18" RCP

555

556

557

558

559

5¢

155

156

157

158

159

16

LYONS ROAD

— B SURVEY LYONS ROAD
(SEE ROADWAY PLANS)

— EXIST. 16" DIP WM
(PBCWUD AS-BUILT NO. 4492)

— EXIST. R/W LINE

END SWALE (RT)
STA 555+80.00
(SEE ROADWAY PLANS)

(1) 4" CONDUIT (AT&T)
CABLE BTB (COMCAST)

HH (AT&T)

(2) 2" PVC ITS CONDUITS (B) (PBC)

24" D

BE-23KV(FPL)

BLUE MOUNTAIN AVE



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NO.	REVISION	BY	DATE



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ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION**
P.O. BOX 21229, WEST PALM BEACH, FL 33406

SCALE: 1"=40'
APPROVED: BK
DRAWN: FM
CHECKED: FM
DATE: 08/26

UTILITY PLAN

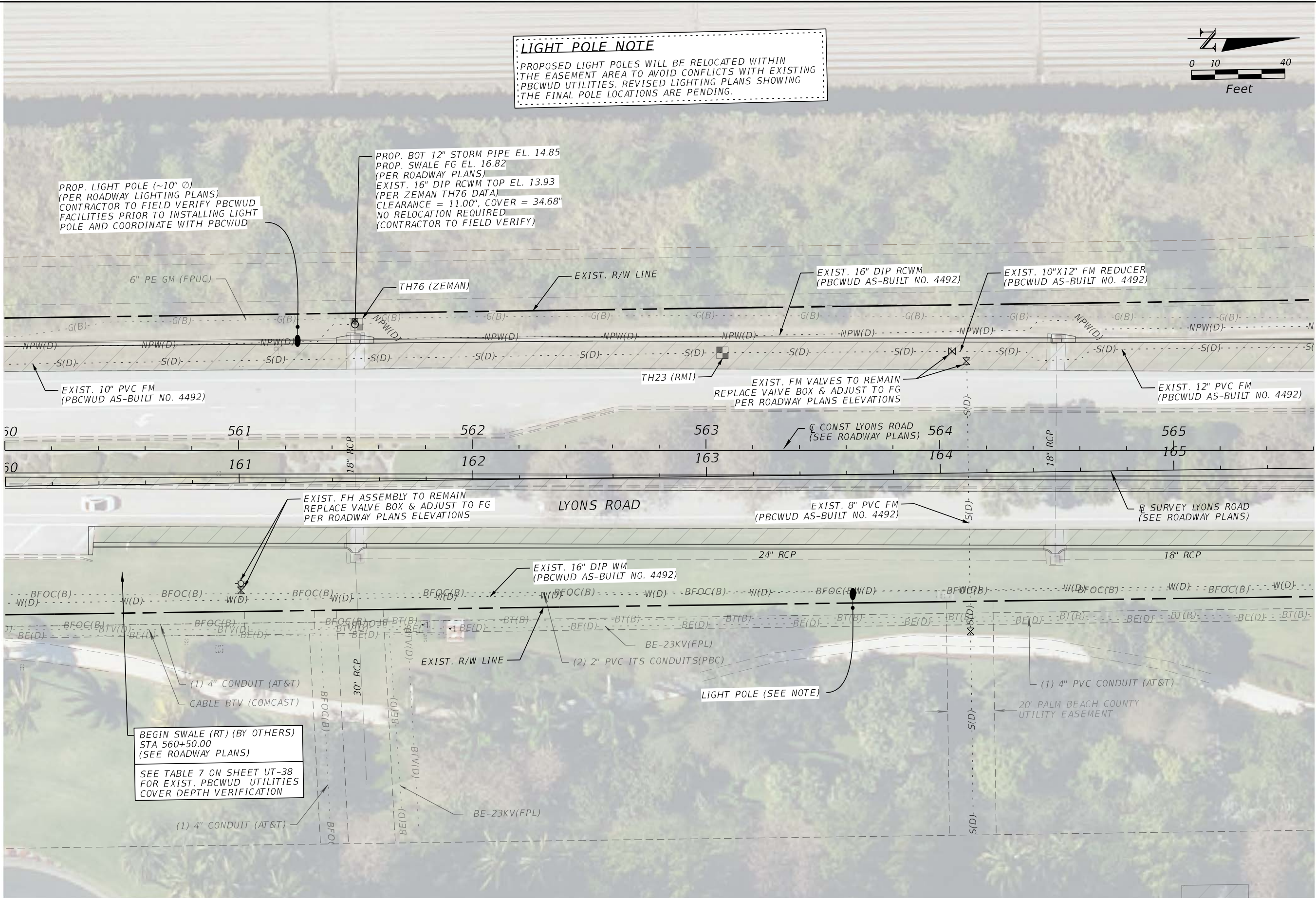
LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-11
OF: UT-69
WUD PROJECT
NO. 24-019

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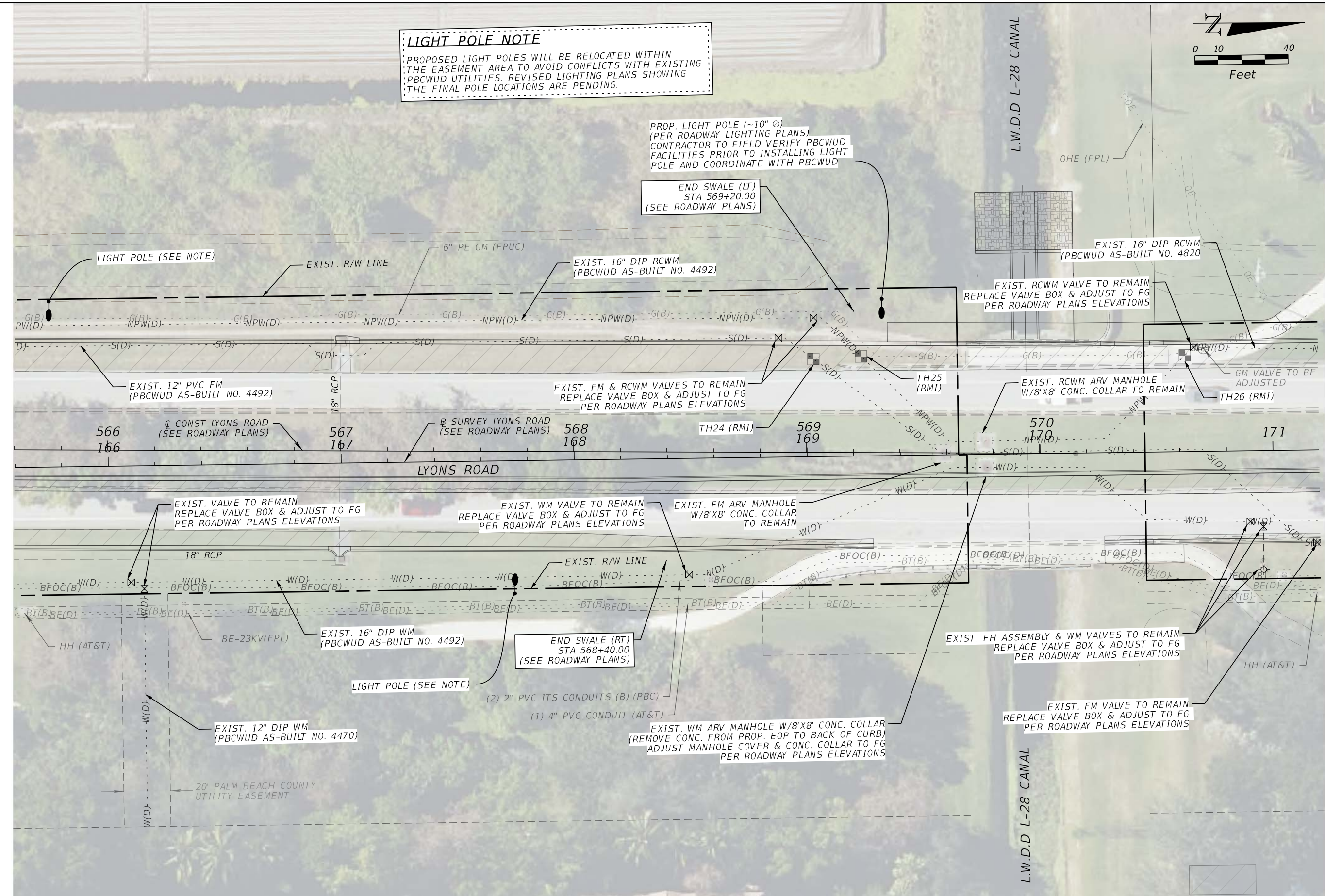
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CHECKED: FM
DATE: 08/26

UTILITY PLAN
LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-12
OF: UT-69
WUD PROJECT
NO. 24-019

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P.O. BOX 21229, WEST PALM BEACH, FL 33406

SCALE: 1"=40'
APPROVED: BK
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CHECKED: FM
DATE: 08/26

UTILITY PLAN

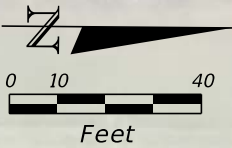
LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-13
OF: UT-69
WUD PROJECT
NO. 24-019

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LIGHT POLE NOTE

PROPOSED LIGHT POLES WILL BE RELOCATED WITHIN THE EASEMENT AREA TO AVOID CONFLICTS WITH EXISTING PBCWUD UTILITIES. REVISED LIGHTING PLANS SHOWING THE FINAL POLE LOCATIONS ARE PENDING.

BEGIN SWALE (LT) (BY OTHERS)
STA 172+00.00
(SEE ROADWAY PLANS)

NO PBCWUD FACILITIES
WITHIN SWALE AREA

LIGHT POLE (SEE NOTE)

EXIST. 16" DIP RCWM
(PBCWUD AS-BUILT NO. 4820)

B SURVEY AND
C CONST LYONS ROAD
(SEE ROADWAY PLANS)

EXIST. 12" FM
(PBCWUD AS-BUILT NO. 3465)

EXIST. 16" DIP WM
(PBCWUD AS-BUILT NO. 3465)

LYONS ROAD

BEGIN SWALE (RT) (BY OTHERS)
STA 172+00.00
(SEE ROADWAY PLANS)

PBCWUD FM IS NOT
WITHIN SWALE AREA
(BASED ON AS-BUILT)

PROP. LIGHT POLE (~10" Ø)
(PER ROADWAY LIGHTING PLANS)
CONTRACTOR TO FIELD VERIFY PBCWUD
FACILITIES PRIOR TO INSTALLING LIGHT
POLE AND COORDINATE WITH PBCWUD

(1) 4" PVC CONDUIT (AT&T)

(2) 2" PVC ITS CONDUITS (B) (PBC)

LIGHT POLE (SEE NOTE)



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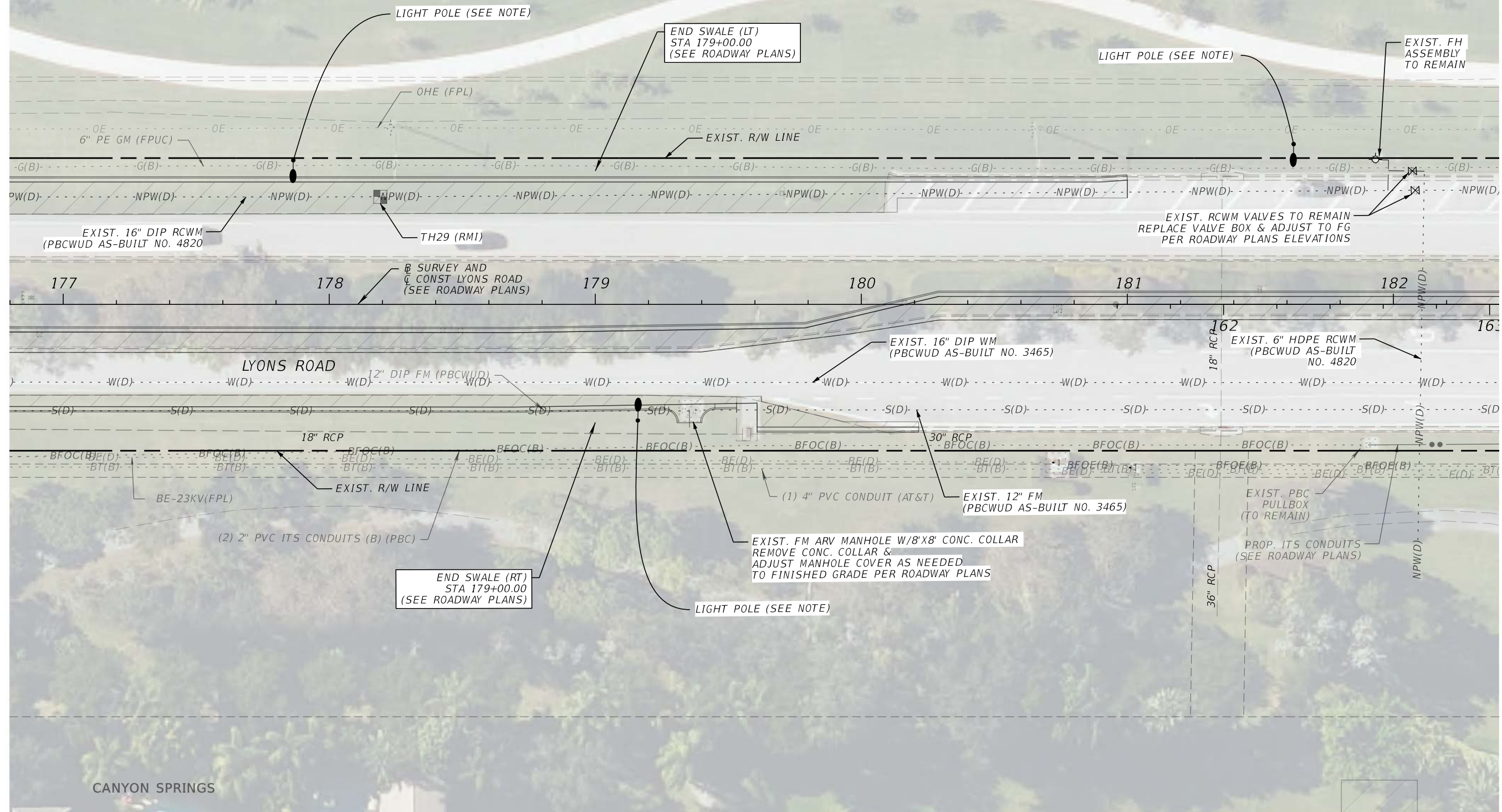
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DRAWN: FM
CHECKED: FM
DATE: 08/26

UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
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SHEET: UT-14
OF: UT-69
WUD PROJECT
NO. 24-019

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P.O. BOX 21229, WEST PALM BEACH, FL 33406**

SCALE: 1"=40'
APPROVED: BK
DRAWN: FM
CHECKED: FM
DATE: 08/26

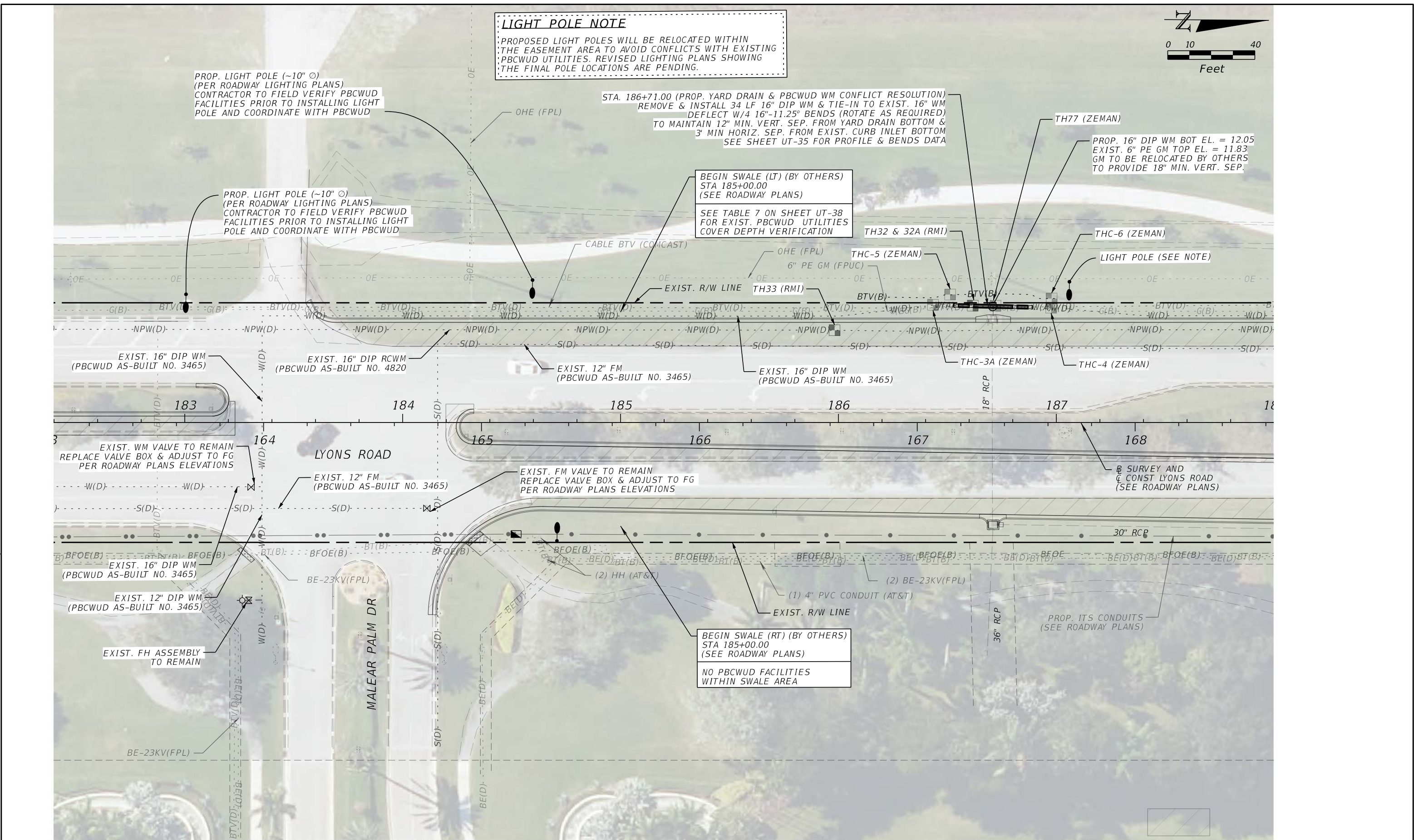
UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-15
OF: UT-69
WUD PROJECT
NO. 24-019

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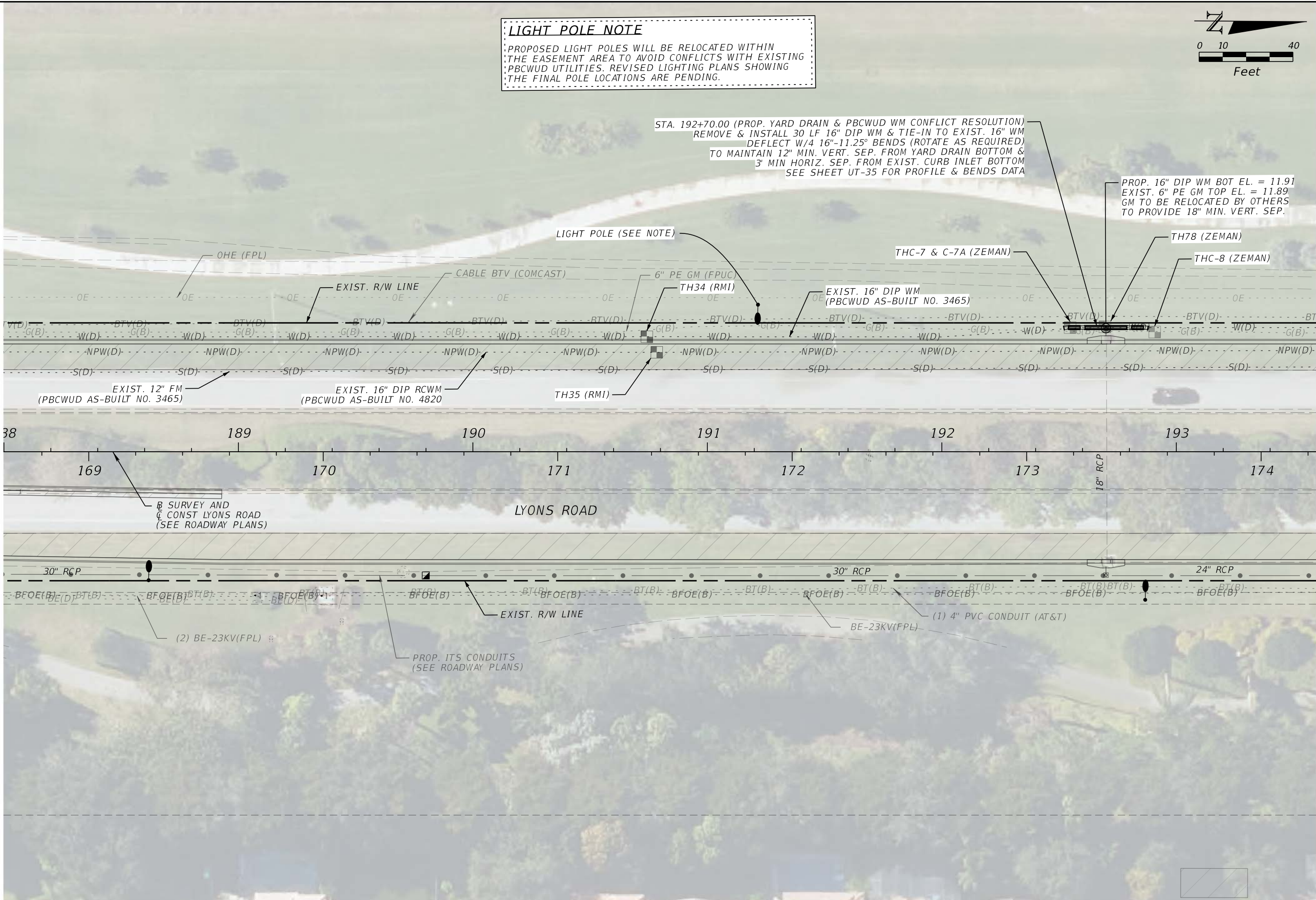
UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-16
OF: UT-69
WUD PROJECT
NO. 24-019

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SCALE: 1"=40'

APPROVED: BK

DRAWN: FM

CHECKED: FM

DATE: 08/26

UTILITY PLAN

LYONS ROAD FROM LWDD L-30 CANAL TO BOYNTON BEACH BLVD
(PBCWUD WM, FM, & RCWM UTILITY RELOCATION)

SHEET: UT-17

OF: UT-69

WUD PROJECT
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