SUMMER PLACE CONDO WATER MAIN REPLACEMENT BRADENTON, FL 404-6110070 **JULY, 2023** HILLSBOROUGH COUNTY 301 LAKE PARRISH (39)(37) 54TH AVE E MANATEE RIVER 54TH AVE DR E 13TH CT E 55TH AVE DR E ပ ш 55TH AVENUE Drive E 55TH AVE DR E SARASOTA COUNTY (70) - (780) -PROJECT SITE VICINITY MAP SITE LOCATION N.T.S. SARASOTA COUNTY

PROJECT DESCRIPTION

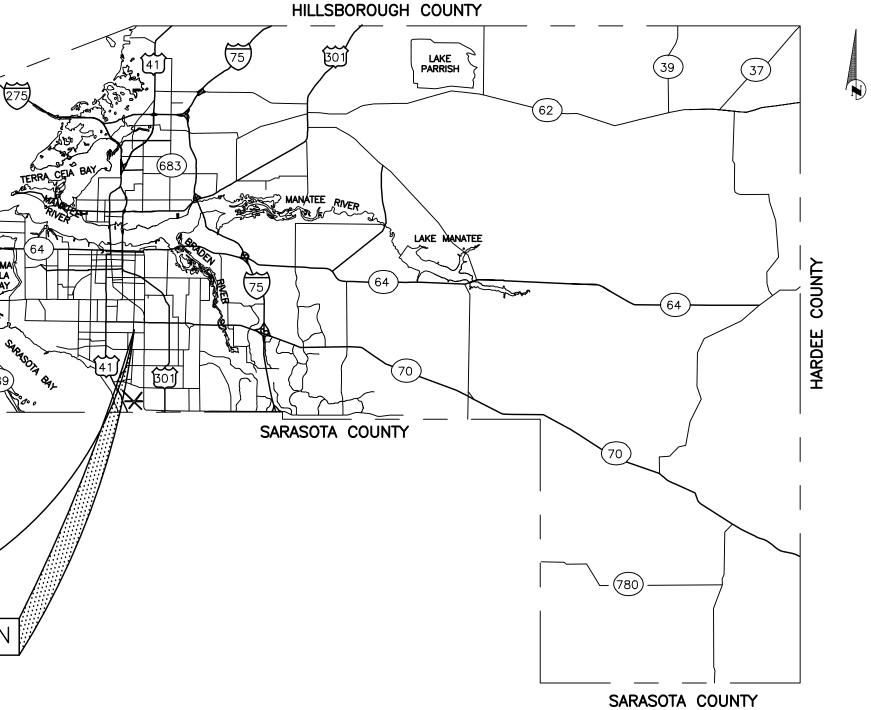
ENSURE PRESSURE IS MAINTAINED.

TO ELIMINATE THIN WALL WHITE PVC WITH GLUED FITTINGS THAT

DUE TO AGE IS PRONE TO LINE BREAKS. REPLACE WITH APPROX.

4100 LF TOTAL OF 8", 6", 4", & 2", KEEP LOOPING SYSTEM TO





SHEET NUMBER	SHEET TITLE				
1	COVER				
2	NOTES				
3	KEY SHEET				
4	55TH AVE DR E				
5	12TH ST CT E				
6	13TH ST E SOUTH				
7	13TH ST E NORTH				
8	15TH ST E				
9	14TH ST E				
10	54TH AVE E				
11	13TH ST E				
12	13TH CT E				
13	54TH AVE DR E				
14	55TH AVE DR E & 12TH ST CT E				
15	RESTORATION PLAN				
16	SURVEY CONTROL				
17	DETAILS.				
18	DETAILS				
18A	DETAILS				
19	EROSION CONTROL				

BID PLANS



SUMMER FLACE CONDO				- '			COVER	FR 9/26/2023 11:47 AM Jim Anderson 1:1 ANSI full bleed D (22 00 × 34 00 Inches) MC = 2016 STB
09/20/23								1.1 ANSI full
JEA								Anderson
ADD STEEL CASING TO SHEET 8. ADD SHEET 18A								VP Summer Place Condos dwa COVER 972672023 11:47 AM Jim
-								her Plac
			4					Sumn
		RGF						
LE	••/						,	
			BY			DA	TE	Jon Con
VEYEI	D	Z	ZNS	5		· _		, Plac
)							19mm
								NM-S
CKED	~~`	((m • -	6,	/20	023	Proi/W
SEC./TWN./RGE 13 35S 17E SCALE N.T.S. BY DATE SURVEYED ZNS 06/2022 DESIGNED CAK 12/2022 DRAWN CAK 6/2023 CHECKED CAK 6/2023 FLORIDA RENS 92162 No. 92102 X SIGNAL SIGNAL MARE								
	Intrinct D<	TITULA TO DE SE SEL CASING TO SHEET 8. JEA 09/20/23 TO DE SEC CASING TO	MATER COUNT.	MULTINIC CONTRACTOR OFFEL (SSING TO SHEET 188 ADD	BY VEYED ZNS IE 00/50/53 IE 00	8 8 8 8 10 10 10 10 10 10 10 10 10 10 10 11 12 13	8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 10 11 12 13 13 14 13 14 15 16 13 13 14 15 16 17 18 13 13 14 15 16 17 10 10 12 13 14 15 16 17 16 </td <td>SO A SO A A A A A A A A A A A A A A A A A A A A A A A A A A A <</td>	SO A A A A A A A A A A A A A A A A A A A A A A A A A A A <

SHEET 1 OF 19

ENGINEERING SERVICES

22 26th Avenue East. Bradenton, FL 3420

1.	ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: MARCENAL JOSEPH, P.E. AND CAN BE REACHED AT 941.708.7450 x7329.									
	SITE VISITS ARE MANDATORY FOR ALL BIDDERS. ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY									
	FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND/OR THE FLORIDA BUILDING CODE. ALL WORK PERFORMED BY A LICENSED PLUMBER REGISTERED IN MANATEE COUNTY, UNLESS OTHERWISE INDICATED ON THE PLANS.									
4.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GO AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID D TO THE OWNER.									
	THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.									
6.	THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE									
	AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORID NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FO FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.									
	NO WORK, EXCEPT FOR EMERGENCY TYPE, SHALL BE PERFORMED AFTER 7:00 PM AND BEFORE 7:00 AM. FOR ADDITIONAL SECTION 01310 OF THE SPECIFICATIONS.	PROJEC	T RESTRAINT	S, REFER TO						
	FETY THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90—96, LAWS OF FLC AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.									
	. THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONF . THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUN									
	. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLE PROVIDING A CONTINUOUS SAFE WORKSPACE. IVIRONMENTAL	EVIATE T	HE CONTRAC	TOR FOR						
	. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL ME FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.									
14.	- STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOC FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCK SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.									
15.	STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND WHICH MUST BE APPROVED BY THE WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.									
16.	D. SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTEN PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTA CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SU OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION	ALLED, (JCH SYS) BERMS	CONSTRUCTE), OR IN THE BE FULLY						
17.	ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING WITHIN THREE (3) DAYS OF EXCAVATION.	NG CON	STRUCTION A	ND BE SODDED						
18.	S SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEM SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.									
19.	ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND S REPAIRED AS REQUIRED.	SHALL B	E CLEANED	OUT AND/OR						
	D. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONST VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT	S AND/0	OR PERMITS							
	. FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS. <u>GHT-OF-WAY</u>									
	2. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENT 5. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE									
	AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.									
	CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF T CONTROL AND SAFE PRACTICES". A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTR	I. ALL M RANSPO RUCTION	IAINTENANCE RTATION "MA MEETING.	AND PROTECTION NUAL OF TRAFFIC						
	5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PI ON THE PLANS OR NOT. THE HEADWALLS SHALL BE REPLACED IN ACCORDANCE WITH F.D.O.T. STANDARDS.									
	5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT—OF—WAY LINES, BASE LINES, BENC STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT.									
	7. THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEW AT THE END OF THE WORK DAY AND FULLY RESTORED PER SECTION 02575.									
	3. A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DONE OUTSIDE OF THE RIGHT—OF—WAY OR EASEMENT.	DRIVEW	AY CONSTRU	ICTION WORK IS						
	<u>'ILITIES</u> D. ALL EXISTING FACILITIES IN THE PROJECT AREA SHALL REMAIN OPERATIONAL AND ACCESSIBLE BY COUNTY PERSONNEL AT A COVERS, SEWER CLEAN–OUTS, ETC. ALL SHALL BE ADJUSTED TO FINISHED GRADE.	ALL TIME	S, I.E. VALVE	ES, MANHOLE						
	D. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE E TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPR WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHI PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AN UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY EFFECT HIS WORK. ALL CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.	OVEMEN OWN OF ND DIME _ EXISTII	TS, UTILITIES RELOCATED NSIONS OF / NG UTILITIES	, ETC. WHICH ARE SINCE THE ALL EXISTING TO BE EXTENDED,						
	. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER/RECLAIM/SEWER LINES, STORM DRAINS, OTHER UTILITI MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION COND THE COUNTY. ALL EXISTING AND PROPOSED VALVE COVERS, RIMS, ETC, SHALL BE BROUGHT TO FINAL GRADE OF THE PROJ	E CONTR	ACTOR SHAL	L REPAIR AND/OR						
32.	2. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED, OR OFFERED BY AN EXISTING UTIL TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OF CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ANY RELATED COSTS.									
33.	ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CO MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DA AT NO ADDITIONAL COST TO THE OWNER.	N ACCO	RDANCE WITH	I THE CONTRACT						
34.	FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DET SECTION 02720.									
NO.	. REVISION DESCRIPTION	BY	DATE							
				S						

<u>GENERAL</u>

35. Al	L WATEF	R SERVICES	TO BE IN	NSTALLED	OR MODIFIE	D ON PRI	ATE PROP	ERTY	SHALL	REQUIRE A	PLUMBING	PERMIT;				
A.	THE C	ONTRACTOR'S	S PLUMB	ER SHALL	. INSTALL A	REDUCED	PRESSURE	(RP)	TYPE	BACKFLOW	PREVENTION	ASSEMBLIES	(BPA'S)	EQUIPPED	WITH /	A PRESSURE

• SWIMMING POOL

REQUIRED.

RESTORATION

THE COUNTY.

PART OF DAILY CLEAN UP

SHOWN ON THE DETAIL SHEETS.

COATED WITH TWO COATS OF EPOXY.

MAXIMUM ALLOWABLE RECOMMENDED DEFLECTION

THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT

CONSTRUCTION

BOTTOM

FITTINGS.

FNGINFFR.

UPON REQUEST.

POINT OF CONNECTION.

• SOLAR WATER HEATING SYSTEM,

• CROSS CONNECTION IS FOUND,

• FIRE SPRINKLER SYSTEM.

• FOUNTAIN WITH A DEDICATED FILL PIPE,

RELIEF VALVE AT THE POTABLE WATER METER WHENEVER ANY OF THE FOLLOWING CONDITIONS EXIST AT A PROPERTY:

• PROPERTY THAT ABUTS A BODY OF WATER, INCLUDING RIVER, BAY, LAKE OR POND ON THE PROPERTY OR BORDERING THE PROPERTY,

B. A LICENSED PLUMBER SHALL INSTALL THE BPA'S IN ACCORDANCE WITH THE CURRENT FLORIDA PLUMBING CODE AND MANATEE COUNTY CODE OF

D. ALL BPA SHALL BE INSTALLED 4-5 FEET FROM THE EDGE OF DRIVEWAYS OR ANY OTHER ITEMS/FEATURES THE BPA MAY CREATE AN OBSTRUCTION.

ORDINANCES, AND SHALL SELECT A PRESSURE RELIEF VALVE WITH AN APPROPRIATE PRESSURE SET POINT TO PROTECT THE CUSTOMERS' PLUMBING AND NOT

ALLOW EXCESSIVE LEAKAGE DUE TO SYSTEM SUPPLY PRESSURE. A PRESSURE REDUCING VALVE MAY BE NECESSARY UPSTREAM OF THE PRESSURE RELIEF

VALVE, WHERE NORMAL SUPPLY PRESSURE EXCEEDS 80 PSI. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION CONTROL STAFF AS

F. CONTRACTOR SHALL COORDINATE WITH COUNTY CROSS CONNECTION STAFF & PRIVATE PROPERTY OWNER AS REQUIRED. CROSS CONNECTION STAFF SHALL

34. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE. ALL RESTORATION

35. ALL DISTURBED GRASSED AREAS SHALL BE SODDED OR SEEDED UNLESS OTHERWISE INDICATED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS

38. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE MANATEE COUNTY

39. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A

COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN

40. ALL EXISTING SIGNING, THERMOPLASTIC PAVEMENT MARKINGS, ETC ... SHALL BE RESTORED/PROVIDED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE MUTCD,

41. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST. RESTORATION EFFORTS SHALL BE INCLUDED IN THE PROJECT

42. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS

FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BAFFLES POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO

43. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEPT DAILY AS

45. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH THE

47. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH

48. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE

51. ALL FITTINGS FOR PRESSURE CLASS-RATED PIPE SHALL BE RESTRAINED DUCTILE IRON. RESTRAINED LENGTHS OF PIPE SHALL ADHERE TO THE REQUIREMENTS AS

54. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF

56. ALL PENETRATIONS OF EXISTING STRUCTURES SHALL BE BY MECHANICAL ROTARY CORE DRILLING METHOD. ALL CONCRETE PENETRATED OR DISTURBED SHALL BE

INFORMATIONAL SIGNS IN THE NEIGHBORHOOD AT LEAST TWO DAYS (48 HRS) PRIOR TO THE WATER SHUT-OFF. REFERENCE SECTION 01580, PARAGRAPH 1.03 OF THE SPECIFICATIONS. WHEN FEASIBLE, "DOOR HANGERS" SHALL BE DELIVERED TO AFFECTED RESIDENCES AT LEAST TWO DAYS (48 HRS) PRIOR TO WATER SHUT-OFF. FOR LARGE PROJECTS WITH HUNDREDS OF HOMES AFFECTED. THE CONTRACTOR SHALL ALSO MAKE EXTENSIVE USE OF THE MEDIA AND SHALL HAVE PRIOR CONTACT WITH HOMEOWNER'S ASSOCIATIONS. WRITTEN NOTIFICATIONS SHALL ALSO BE FAXED TO THE TAMPA TRIBUNE, BRADENTON HERALD, SARASOTA HERALD TRIBUNE, WBRD RADIO, EMERGENCY COMMUNITY CENTERS, INSPECTIONS, WATER TREATMENT PLANT, WATER MANAGER, HELPLINE, CUSTOMER SERVICE, AND

57. THE CONTRACTOR, PRIOR TO ANY TEMPORARY WATER SHUT-OFFS DURING WATER MAIN TIE-IN, ETC., SHALL NOTIFY THE AFFECTED RESIDENTS BY POSTING

58. ALL NEW PIPE LINES SHALL BE PIG CLEANED (4" AND LARGER), FLUSHED, PRESSURE TESTED, DISINFECTED AND CERTIFIED PRIOR TO TIE-INS TO EXISTING

59. ALL TEST POINT PIPING SHALL BE CUT LOOSE FROM THE CORPORATION STOP AND COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR PRIOR TO

FACILITIES. THE CONTRACTOR WILL BE ALLOWED TO USE TEMPORARY PLUGS FOR PIG CLEANING AND PRESSURE TESTING.

FINAL ACCEPTANCE. A CORPORATION STOP BRASS PLUG SHALL BE INSTALLED AND THE CORPORATION STOP SHALL REMAIN IN PLACE.

50. ALL PIPE AND FITTINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND ALL PIPE JOINTS SHALL BE RESTRAINED WHERE REQUIRED.

52. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE DEFLECTION SHALL NOT EXCEED 75% OF THE MANUFACTURER'S

53. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES OR

55. ONLY MANATEE COUNTY UTILITY OPERATIONS STAFF ARE AUTHORIZED TO OPERATE VALVES ON COUNTY OWNED AND MAINTAINED UTILITY SYSTEMS.

44. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.

LINES AND GRADES SHOWN ON THE PLANS AND PROFILES. MODIFICATIONS MUST BE APPROVED BY THE ENGINEER OF RECORD.

FDOT DESIGN STANDARDS AND THE MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY, TRAFFIC AND STORMWATER STANDARDS, AND/OR AS DIRECTED BY

PUBLIC WORKS STANDARDS PART 3. HIGHWAY & TRAFFIC STANDARDS MANUAL DATED JUNE 2015, SECTION 3.7 DRIVEWAYS AND SECTION 3.8 SIDEWALKS AND/OR THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN AND THE F.D.O.T. DESIGN STANDARDS. CONCRETE WITH A 3,000 PSI @ 28 DAYS SHALL BE USED.

36. ALL CONCRETE THRUST BLOCKS INSTALLED FOR TESTING PURPOSES AND NOT REQUIRED FOR THE OPERATION OF THE PIPELINE SHALL BE REMOVED AND

37. ASPHALT DRIVES THAT ARE CUT SHALL BE RESTORED PER SECTION 02513 OF THE INFRASTRUCTURE ENGINEERING STANDARD SPECIFICATION.

C. IF IN-GROUND IRRIGATION SYSTEM IS CONNECTED TO THE POTABLE WATER LINE, AN ADDITIONAL REDUCED PRESSURE (RP) BPA SHALL BE INSTALLED AT THE

•IN-GROUND IRRIGATION SYSTEM OR UNDERGROUND SPRINKLERS,

E. VACUUM BREAKERS SHALL BE INSTALLED ON ALL EXTERNAL HOSE BIBBS.

IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER.

CUTTING. LIME ROCK BASE SHALL COME FROM AN APPROVED FDOT PIT.

AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.

PROPERTY OWNER PRIOR TO CONSTRUCTION ACTIVITIES.

DETERMINE WHICH PROPERTIES REQUIRE A BPA AND TYPE OF BPA TO BE INSTALLED.

LIMITS ARE APPROXIMATE AND SUBJECT TO THE DIRECTION OF THE COUNTY FIELD REPRESENTATIVE.

SCHEDULING AND PHASING PLAN TO DEMONSTRATE HOW THE RESTORATION WILL BE ACHIEVED.

46. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA.

PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.

STANDARDS" AND MANATEE COUNTY UTILITY STANDARDS UNLESS NOTED OTHERWISE ON THE PLANS.

49. ALL PIPE SHALL BE COLOR CODED TO CONFORM TO MANATEE COUNTY STANDARDS.

DISPOSED OF BY THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, AT NO ADDITIONAL COST TO THE OWNER.

• SECONDARY SOURCE OF WATER (I.E. RECLAIMED WATER OR WELL)

•FLOOD ZONE DESIGNATION, (IF ONLY FLOOD ZONE, INSTALL A DOUBLE CHECK BPA),

• COMMERCIAL, INDUSTRIAL, MULTISTORY OR MULTIFAMILY RESIDENTIAL FACILITY,

NOTES

63. THE CONTRACTOR SHALL MAINTAIN AS-BUILT DRAWINGS OF THE WORK AS CONSTRUCTED. AS-BUILT DRAWINGS SHALL INCLUDE THE LOCATION OF ABANDONED MAINS CUT AND PLUG POINTS. AS-BUILT DRAWINGS SHALL BE ANNOTATED EACH DAY AS THE WORK PROCEEDS AND SHALL BE AVAILABLE TO THE COUNTY PROJECT MANAGER AND/OR FIELD INSPECTOR FOR REVIEW ON AN ONGOING BASIS, AS-BUILT DRAWINGS SHALL PROVIDE THE HORIZONTAL AND VERTICAL INSTALLED LOCATION OF ALL NEW PIPELINE, FITTINGS, VALVES AND APPURTENANCES REFERENCED TO FIXED SURFACE FEATURES THAT ARE SHOWN ON THE CONSTRUCTION DRAWINGS AND/OR RIGHT-OF-WAY LINES, PROPERTY CORNERS OR OTHER SURVEYED POINTS. THE CONTRACTOR SHALL BE ABLE TO PRESENT THE RECORD DRAWINGS TO THE COUNTY PROJECT MANAGER AND/OR INSPECTOR ON DEMAND AS THE WORK PROGRESSES. SEE SECTION 01720 FOR FURTHER

UMMER PLACE CONDO WATER MAIN REPLACEMENT

BRADENTON, FL

60. WATER MAINS CROSSING OVER OR UNDER SANITARY SEWERS, FORCE MAINS, AND RECLAIMED WATER LINES SHALL BE LAID PER CURRENT EDITION OF "10 STATE 61. FIELD CONDITIONS MAY NECESSITATE MINOR ALIGNMENT AND GRADE DEVIATION OF THE PROPOSED UTILITIES TO AVOID OBSTACLES, AS ORDERED BY THE 62. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH SECTION 1.15 AND/OR 1.16 IN THE CURRENT MANATEE COUNTY UTILITY STANDARDS AT NO COST TO THE OWNER. RECORD DRAWINGS SHALL BE SIGNED & SEALED BY A SURVEYOR CURRENTLY LICENSED BY THE STATE OF FLORIDA. ALL RECORD DRAWING INFORMATION REQUIREMENTS IN SECTION 1.15 AND/OR 1.16 SHALL BE STRICTLY ENFORCED. A COPY OF SECTION 1.15 AND 1.16 CAN BE PROVIDED

FRONTIFR

(941) 708-7450 EXT. 7220

PUBLIC WORKS DEPT UTILITY ENGINEERING JIM RENNEBERG, P.E.

MANATEE COUNTY

SEE LEGEND ON SHEET 16 "SURVEY CONTROL SHEET"

89. UPON PASSING THE FINAL INSPECTION, THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION, 2904 12TH STREET COURT EAST. BRADENTON. FLORIDA 34208 (ATTN: MR. AARON BURKETT) REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY. MANATEE COUNTY WILL RESPOND WITHIN 5 WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY.

- INTACT AS LONG AS FEASIBLE TO LIMIT THE DURATION OF SYSTEM DOWN TIME.

- WIRE).

<u>FIBER</u>

EXISTING UTILITY LOCATIONS

MAINTENANCE OF TRAFFIC

ARE CONCEPTUAL.

CLOSURES OR DETOURS.

SEPARATE PAYMENT.

STANDARD INDEX 600.

COST OF PIPE.

DETAILED REQUIREMENTS OF THE DAILY RECORD DRAWING DOCUMENTATION

64. THE FOLLOWING IDENTIFIES THE QUALITY LEVEL OF EXISTING UTILITY LINEWORK ON PLANS. LEVEL "A" -VISUALLY LOCATED OR SOFT DIGS (HORIZONTAL AND VERTICAL) LEVEL "B" –DESIGNATED BY GPR OR FLAGGING (HORIZONTAL) LEVEL "C" -SURFACE VISIBLE FEATURES SURVEY LEVEL "D" -EXISTING RECORDS OR GIS

REFERENCE 2010 EDITION OF FDOT UTILITY ACCOMMODATION MANUAL (UAM)

65. THE CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROL PLAN (TCP) IMPLEMENTED. THE TCP SHALL BE PREPARED BY AN INDIVIDUAL CERTIFIED TO PREPARE A TCP IN THE STATE OF FLORIDA THAT MEETS OR EXCEEDS THE REQUIREMENTS OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS LATEST EDITION (SERIES 600). ANY DEVIATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SUBMITTED TO COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

66. THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHT-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN (TCP). THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES". A TCP SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

67. THE CONTRACTOR SHALL USE, BUT ARE NOT LIMITED TO, FDOT INDICES 415, 600, 615, 616, AND 621. THE RECOMMENDED FDOT DESIGN STANDARD INDICES

68. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TEMPORARY DRAINAGE. THERE WILL BE NO DIRECT PAY FOR THIS WORK. COSTS SHALL BE INCLUDED IN THE

69. MOTORIZED AND MECHANICAL EQUIPMENT SHALL BE EFFECTIVELY SHIELDED, PADDED, OR LOCATED TO MINIMIZE NOISE.

70. THE CONTRACTOR WILL NOTIFY ALL EMERGENCY AND RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF ANY PROPOSED LANE

71. ACCESS TO ALL SIDE STREETS AND DRIVEWAYS MUST BE PROVIDED AND MAINTAINED DURING CONSTRUCTION.

72. USE FDOT INDEX NO. 619 FOR TRAFFIC CONTROL MEASURES WHEN CONSTRUCTION EQUIPMENT IS DRIVEN ON OPEN TRAVEL LANES. THE REGULATORY SPEED IN WORK ZONES SHOULD BE AS CLOSE TO NORMAL CONDITIONS AS POSSIBLE, UNLESS NOTED ON THE TRAFFIC CONTROL PLANS.

73. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO WORKING NEAR THEIR EXISTING FACILITIES.

74. CONSTRUCTION SEQUENCES SHALL BE COORDINATED TO PROVIDE POSITIVE DRAINAGE OF THE TRAVELWAYS AT ALL TIMES.

75. ANY MOT ITEM NOT SPECIFICALLY LISTED UNDER A PARTICULAR PAY ITEM SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS. THERE SHALL BE NO

76. THE MAXIMUM SPACING BETWEEN WARNING DEVICES USED FOR DELINEATION BETWEEN THE TRAVELWAY(S) AND CONSTRUCTION AREA SHALL BE AS PER FDOT

77. ALL DETOURS, IF APPROVED BY THE COUNTY, SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D. LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION (600 SERIES). ANY DETOUR RECOMMENDED BY THE CONTRACTOR MUST BE SUBMITTED TO THE COUNTY (AND FDOT) FOR APPROVAL AT LEAST FOURTEEN (14) DAYS PRIOR TO THE START OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COUNTY (AND FDOT) APPROVAL PRIOR TO IMPLEMENTATION AND FAILURE TO OBTAIN APPROVAL SHALL NOT BE GROUNDS FOR ANY DELAY CLAIM FOR TIME OR ADDITIONAL COMPENSATION.

78. ENSURE RESIDENT ACCESS MAINTAINED AT ALL TIMES. SINGLE LANE ALTERNATING TRAFFIC PERMITTED AS LONG AS FLAGGED OR AUTOMATED SIGNAL CONTROLLED. NO FULL CLOSURE WITHOUT AT LEAST TWO WEEK ADVANCED NOTICE WITH TIME TO REVIEW DETOUR PLAN.

79. INSTALL A FIBER OPTIC ROUTE MARKER AT THE PROPOSED PULL BOX AND RESTORE THE FIBER OPTIC LOCATION SYSTEM (I.E., ROUTE MARKERS AND TRACER

80. ALL MATERIAL REMOVED SHALL BE REPLACED WITH LIKE KIND TYPE AND SPECIFICATION.

81. NEW ADVANCED TRAFFIC MANAGEMENT SYSTEM (ATMS) INFRASTRUCTURE SHOULD BE PLACED WHILE LEAVING EXISTING ATMS INFRASTRUCTURE IN PLACE AND

82. THE DEVELOPER WILL NEED TO HIRE A CERTIFIED CONTRACTOR THAT IS LICENSED TO PERFORM THIS WORK TO RELOCATE THE ATMS INFRASTRUCTURE AT THEIR

83. AT LEAST FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MUKUNDA GOPALAKRISHNA, P.E., PTOE OF THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION AT (941) 749-3500, EXT. 7813 TO INFORM HIM OF CONSTRUCTION OPERATIONS.

84. THE CONTRACTOR MUST PROVIDE A SPLICE DIAGRAM FOR THE PROPOSED SPLICE ENCLOSURE AT THIS TIME.

85. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (811) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

86. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RIGHT-OF-WAY USE PERMITS WITH MATT MERUCCI, MANATEE COUNTY PUBLIC WORKS INFRASTRUCTURE INSPECTION OFFICER, AT (941) 708-7450, EXT. 7342.

87. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BOND REQUIREMENTS WITH BRANDY WILKINS, MANATEE COUNTY PUBLIC WORKS SENIOR ADMINISTRATIVE SPECIALIST, AT (941) 708-7450, EXT. 7215.

88. DELIVER THREE HARD-COPY SETS OF AS-BUILT RECORDS DRAWINGS THAT ARE SIGNED AND SEALED BY THE ENGINEER OF RECORD, AND ONE COMPACT DISC OF RECORD DRAWINGS IN ADOBE ACROBAT (.PDF) AND AUTOCAD (.DWG) FORMAT TO THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION (ATTN: MR. MUKUNDA GOPALAKRISHNA, P.E., PTOE) AT 2101 47TH TERRACE EAST BRADENTON, FL 34203. RECORD DRAWINGS MUST BE DELIVERED TO THE COUNTY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.

1022 26TH AVENUE EAST BRADENTON, FL. 34208

TECO/PEOPLES GAS CO. ALEX McFARLANE 8261 VICO COURT SARASOTA, FL. 34240 (813) 275-3762 ÈMERGENCY: 1-877-832-6911

JOHN PLOTT 1701 RINGLING BLVD. SARASOTA, FL. 34236 (941) 906-6707 **JOHN.PLOTT@FTR.COM**

EMERGENCY CONTACTS

FLORIDA POWER & LIGHT TODD BOLKEMA 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 927–4262 ÈMERGENCY: 1-800-4-OUTAGE TODD.BOLKEMA@FPL.COM

MANATEE COUNTY HEALTH DEPT. HANS ROESE 410 6TH AVENUE EAST BRADENTON, FL. 34208 (941) 748-0747 EXT. 1355

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SARASOTA SERVICE OFFICE STEVE LOPES, P.E. 6750 FRUITVILLE ROAD SARASOTA, FL. 34240 (941) 377–3722



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

FLORIDA GAS TRANSMISSION JOHN LUDLOW 7804 ANDERSON RD. TAMPA FL 33634 PHONE: (813) 466-3327 E-MAIL: CHAD.HARRELL@SUG.COM

FDEP, SOUTHWEST DISTRICT ED WATSON 13051 N. TELECOM PKWY TEMPLE TERRACE, FL 33637 (813) 470–5875

CHARTER COMMUNICATIONS TOM WRIGHT 5413 E. STATE ROAD 64 BRADENTON, FL. 34208-5535 (941) 748-3816 EXT. 21348 TOM.WRIGHT@CHARTER.COM

SUNSHINE STATE ONE CALL OF FLORIDA 1-(800) 432-4770

BY

ZNS

CAK

CAK

CAK

404-6110070

W2200087

13 35S 17E

N.T.S.

DATE

06/2022

12/2022

6/2023

6/2023

PROJECT #

SEC./TWN./RGE

SURVEY #

SURVEYED

DESIGNED

CHECKED

DRAWN

SCALE

PEACE RIVER ELECTRIC COOPERATIVE, INC. P.O. BOX 1310 WACHULA, FL 33873 KENDELL COKER (863) 767-4660 KENDELL.COKER@PRECO.COOP

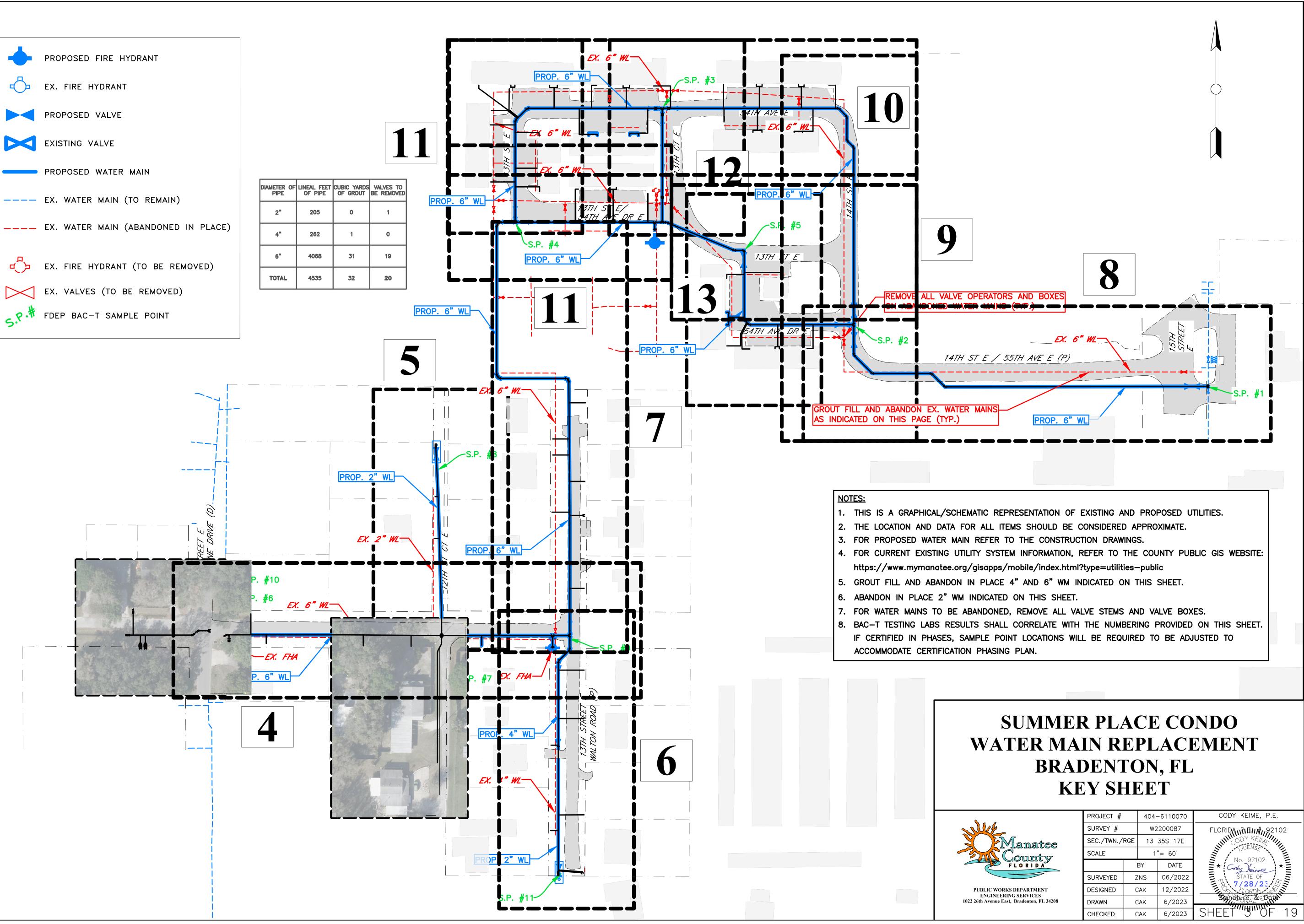
MANATEE COUNTY PUBLIC WORKS DEPT./TRAFFIC ENGINEERING/ ATMS 2101 47TH TERRACE EAST BRADENTON, FL 34203 VISHAL KAKKAD, P.E. (941) 749-3500 EXT. 7812 VISHAL.KAKKAD@MYMANATEE.ORG.

CITY OF BRADENTON PUBLIC WORKS 1411 9TH ST. W. BRADENTON, FL 34205 JIM MCLELLAN JIM.MCLELLAN@CITYOFBRADENTON.COM PHONE: (941) 708-6300

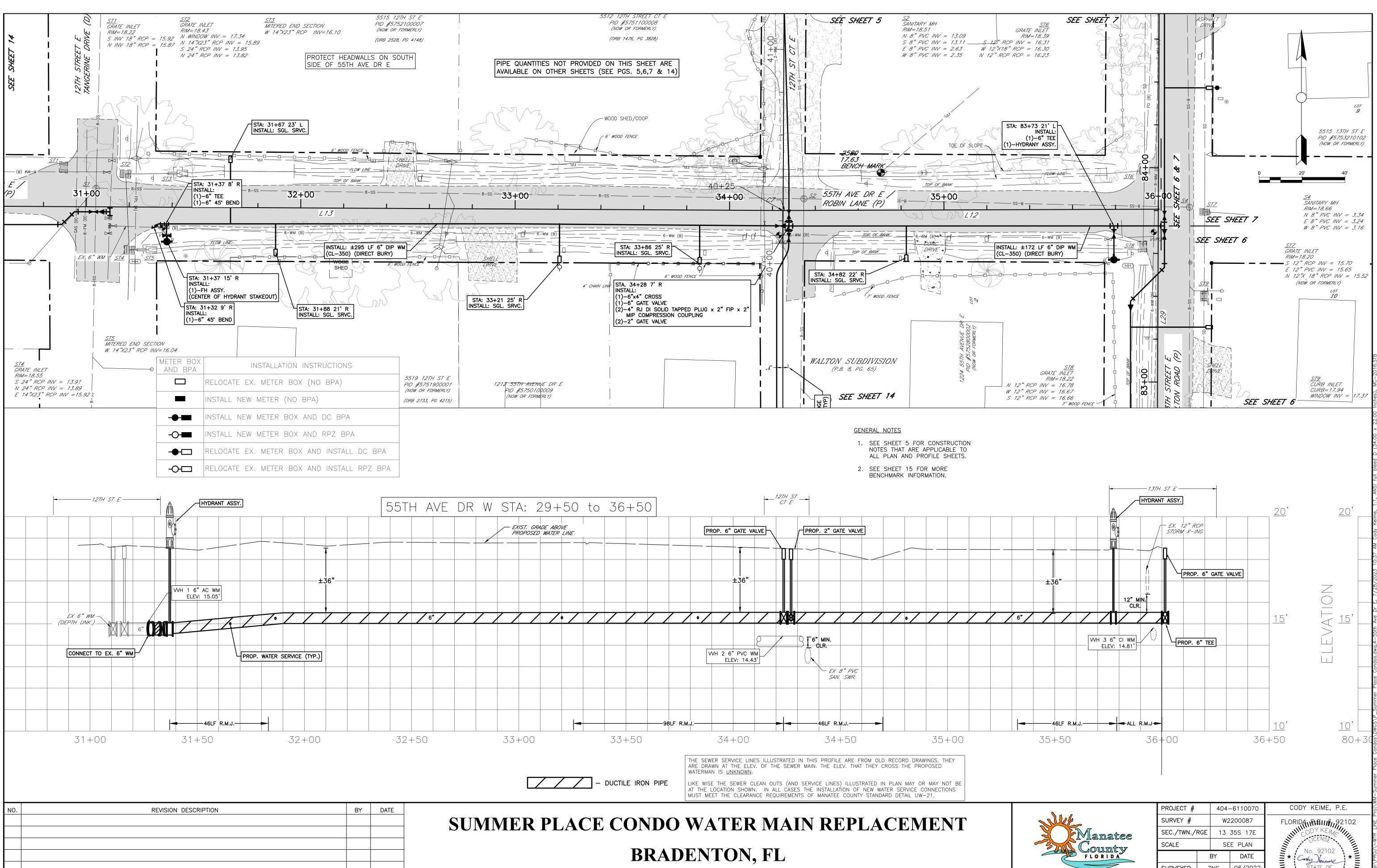
······································
CODY KEIME, P.E.
FLORIDA, R.F.I.1#, 92102
FLORIDA PEINE ODY KEMA CCENSE No. 92102 * No. 92102 * STATE OF 7/28/23 Complexing State of
No 92102
= * Costy heimme * =
STATE OF
Conde Sandture
A A A A A A A A A A A A A A A A A A A
SHEET 2 OF 19

•	PROPOSED FIRE HYDRANT
- C-	EX. FIRE HYDRANT
	PROPOSED VALVE
	EXISTING VALVE
	PROPOSED WATER MAIN
	EX. WATER MAIN (TO REMAIN)
	EX. WATER MAIN (ABANDONED IN PLACE)
	EX. FIRE HYDRANT (TO BE REMOVED)
\bowtie	EX. VALVES (TO BE REMOVED)
5.P.#	FDEP BAC-T SAMPLE POINT

DIAMETER OF PIPE	LINEAL FEET OF PIPE	CUBIC YARDS OF GROUT	VALVE BE RE
2*	205	0	
4*	262	1	(
6"	6" 4068		1
TOTAL	4535	32	2



PROJECT #		404-	-6110070	CODY KEIME, P.E.			
SURVEY #		W2200087		FLORIDAN RIEII#,,92102			
SEC./TWN./RGE		13 35S 17E		CODY KEIME			
SCALE		1	"= 60'	FLORIDANTIENT#192102			
		BY	DATE	* Cody Jeinne *			
SURVEYED	Z	INS	06/2022	STATE OF			
DESIGNED	C	CAK	12/2022	LORDA			
DRAWN		CAK	6/2023	Signature & EDQ18			
CHECKED	C	CAK	6/2023	SHEET'''''''''''''''''''''''''''''''''''			



55TH AVE DR E

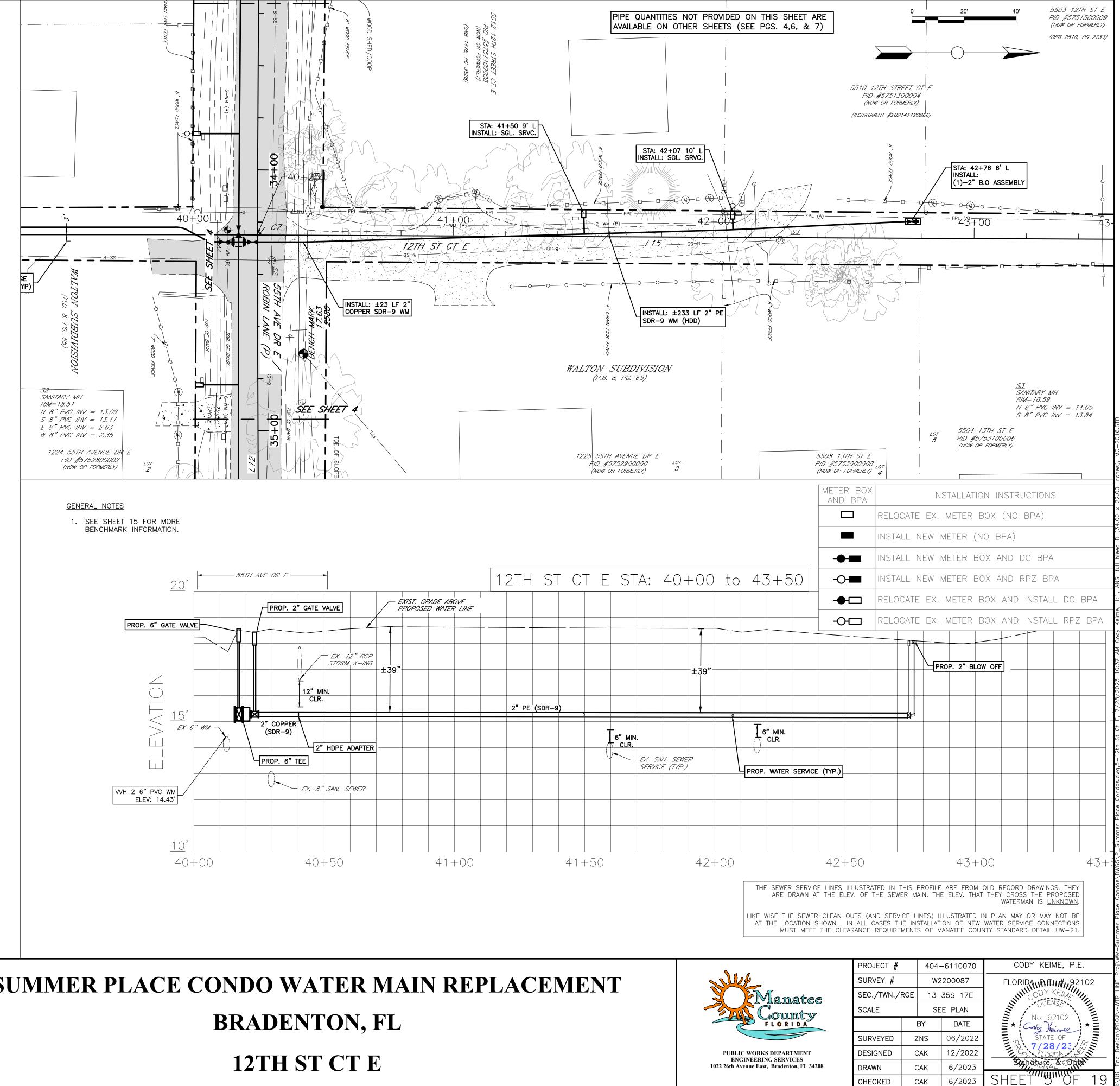
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

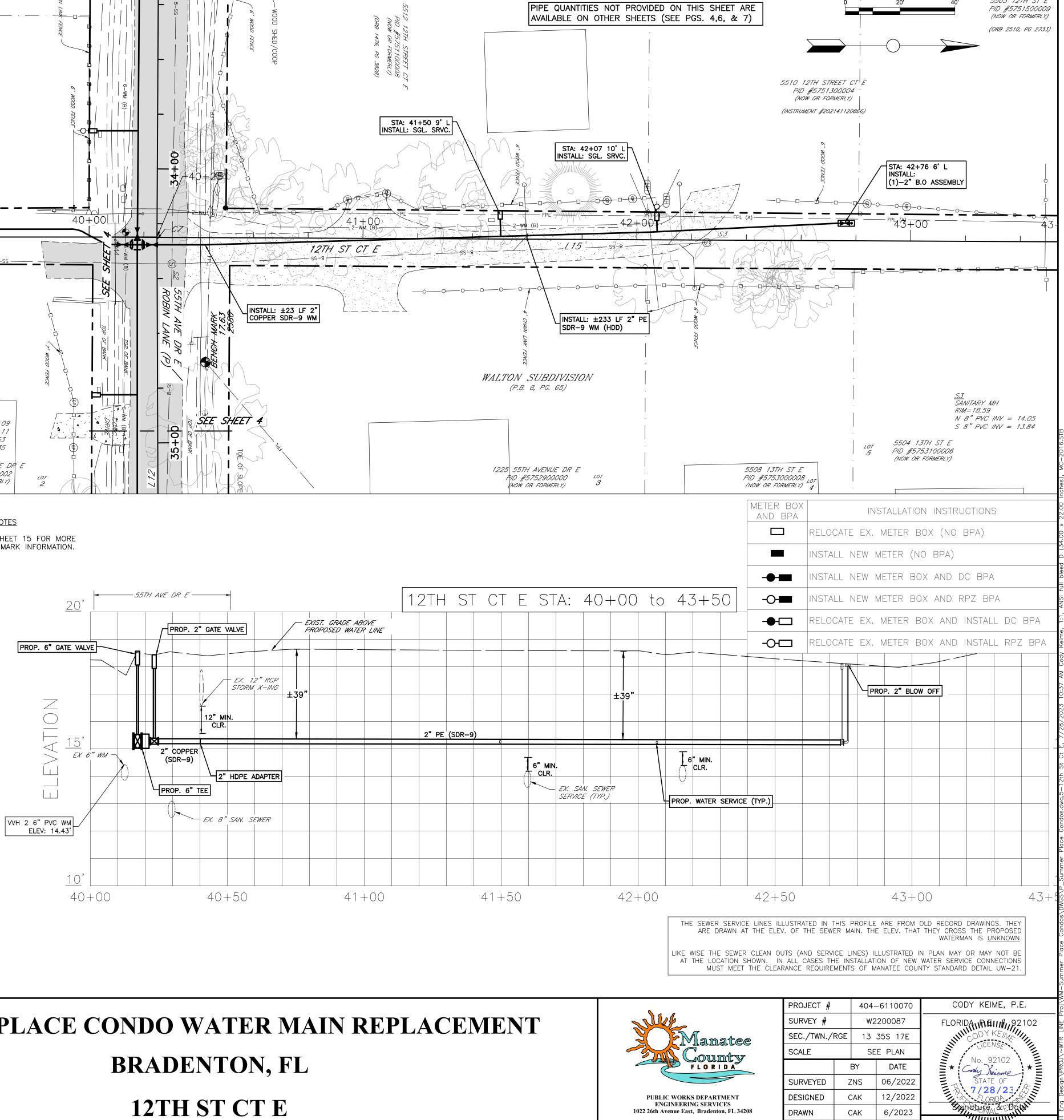
PROJECT #		404-	-6110070	CODY KEIME, P.E.
SURVEY #		W2200087		FLORIDANREII#,,92102
SEC./TWN./RGE		13	35S 17E	UNIT CODY KEIME
SCALE		SE	E PLAN	FLORIDA PEINE ODY KENNE No. 92102
		BY	DATE	* Conty Preimine *
SURVEYED	Z	ZNS	06/2022	STATE OF
DESIGNED	SIGNED CAK		12/2022	7/28/23/25
DRAWN C		CAK	6/2023	Signature a celoque.
CHECKED	(CAK	6/2023	SHEET 4 OF 19

CONSTRUCTION NOTES (APPLICABLE TO ALL PLAN AND PROFILE SHEETS):

- 1. WATER CONNECTIONS TO THE EXISTING RESIDENCES ARE UNKNOWN. THE CONTRACTOR/PLUMBER MAY SHIFT LOCATIONS OF THE PROPOSED WATER METER TO CREATE A MORE EFFICIENT ALIGNMENT TO THE EXISTING WATER SERVICE CONNECTION AT THE RESIDENCE. SHIFT MAY OCCUR AFTER NOTIFYING THE COUNTY PRIOR TO INSERTION. CUSTOMER USE OF PROPERTY MIGHT DICTATE SERVICE LOCATION.
- 2. ALL METER BOXES PROPOSED AND/OR RELOCATED SHALL BE INSTALLED PER UW-21, UNLESS OTHERWISE NOTED.
- 3. CONTRACTOR SHALL COORDINATE ALL WATER SERVICE LINE INSTALLATIONS WITH THE UTILITY DEPARTMENT (JAMES LEE @ 941-792-8811 x5055) PRIOR TO INSTALLATION. THE CONTRACTOR SHALL INSTALL 3/4-INCH REDUCE PRESSURE BACKFLOW PREVENTION ASSEMBLIES (BPA'S) (WILKINS 975XL2 OR APOLLO VALVE RPLF4A) WITH VACUUM BREAKERS ON ALL EXTERIOR HOSE BIBBS, UNLESS OTHERWISE NOTED.
- 4. WATER SERVICE TAPS SHALL NOT BE LOCATED UNDER DRIVEWAYS.
- 5. INSTALLATION OF THE PROPOSED PIPE SHALL BE AS SHOWN IN THE PLAN AND PROFILE VIEWS, UNLESS REVISIONS ARE APPROVED BY THE COUNTY. THE DEPTH OF BURY OR TOP OF PIPE ELEVATION ARE TO BE AS INDICATED BY THE ELEVATION GRID, UNLESS OTHERWISE STATED ON THE PLANS BY ELEVATION CALLOUTS OR SPOT GRADES. IT IS EXPECTED THE INSTALLATION OF THE PIPE OR APPURTENANCES SHALL MATCH THE ELEVATIONS SHOWN IN THE CONSTRUCTION PLANS.
- 6. ALL NECESSARY DEVIATIONS BEYOND THE ACCEPTED TOLERANCES WILL NOT BE ACCEPTED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE COUNTY.
- 7. INSTALLATION VERTICAL AND HORIZONTAL TOLERANCES SHALL BE AS STATED IN THE SPECIFICATION DOCUMENT, SECTION 02617, 3.03.H. PIPE PLACED OUT OF TOLERANCE IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO THE COUNTY.
- 8. CONTRACTOR SHALL SURVEY THE EXISTING TOP OF "PIPE" ELEVATION AT ALL PROPOSED UTILITY CROSSINGS WHEN EXPOSED. THIS INFORMATION SHALL BE PROVIDED ON THE RECORD DRAWINGS.
- 9. CONTRACTOR SHALL USE A TAPE MEASURE AND PROVIDE PHOTOGRAPHIC EVIDENCE THAT ALL MINIMUM REQUIRED HORIZONTAL OR VERTICAL DISTANCES HAVE BEEN PROVIDED. THESE PHOTOS SHALL BECOME PART OF THE PROJECT FILE. PHOTOS SHALL BE LABELED WITH THE BASELINE STATION NUMBERING AND UPLOADED TO eBUILDER WITHIN 1 TO 2 DAYS OF THE CROSSING INSTALLATIONS. THIS REQUIREMENTS SHALL APPLY TO ALL CROSSINGS. THESE PHOTOS SHALL BE USED TO SUPPORT THE AS-BUILT RECORD INFORMATION.
- 10. ALL EXISTING, UNDAMAGED, ROME 1910 CAST IRON METER BOXES MAY BE REUSED. REPLACE ALL OTHERS WITH CURRENT STANDARD.
- 11. CONTRACTOR SHALL NOT USE LEVERAGE OR MECHANICAL MEANS TO ALIGN THE PIPE AND/OR FITTINGS FOR ATTACHMENT. THE PIPE SHALL NOT BE "SPRING-LOADED".
- 12. ALL DISTURBED EX. DRAINAGE DITCHES/SWALES SHALL BE RE-GRADED TO ORIGINAL CONDITION TO PROVIDE POSITIVE DRAINAGE.
- 13. ALL COST TO RESTORE PROPERTY IN THE ROW DURING PIPE INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PIPE BID ITEM, IF NOT SPECIFICALLY ADDRESSED BY OTHER BID ITEMS.
- 14. THERE SHALL BE 3-FOOT MINIMUM HORIZONTAL SEPARATION BETWEEN THE PROPOSED WATER MAIN AND EXISTING/PROPOSED STRUCTURES.
- 15. ANY PROPOSED AIR RELEASE VALVES (ARV) SHALL BE INSTALLED AFTER THE FIRST DRAFT OF THE RECORD DRAWINGS ARE REVIEWED TO ENSURE THE ARVS ARE INSTALLED AT THE ACTUAL HIGH POINTS OF THE NEW INSTALLED MAINS. ANY HIGH POINTS CREATED BY UNAUTHORIZED DEVIATIONS SHALL REQUIRE AN ARV AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 16. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS BOTH HORIZONTALLY AND VERTICALLY ALONG THE PROPOSED WATER MAIN ALIGNMENT AND MARK THEIR LOCATION (HORIZ. & VERT.) ON THE PLANS AND NOTIFY THE COUNTY OF ANY CONFLICTS WITH THE PLAN ELEVATIONS IMMEDIATELY. 6-INCH MIN. VERTICAL CLEARANCE IS REQUIRED FROM THE WATER MAIN. THE REDLINE DRAWINGS SHALL BE SUBMITTED TO THE COUNTY FOR RECORD. ALL EXISTING UTILITIES SHALL BE REFLECTED IN THE RECORD DRAWINGS OF THE PROJECT.
- 17. THE VERTICAL ALIGNMENT OF THE WATER MAIN MAY BE SLIGHTLY VARIED BY ALLOWABLE JOINT DEFLECTIONS BASED ON THE PIPE MANUFACTURER'S RECOMMENDATIONS PER UG-18. FITTINGS SHALL NOT BE USED TO DEFLECT AROUND THE EXISTING UTILITIES. IF A CONFLICT CANNOT BE AVOIDED BY UTILIZING PIPE JOINT DEFLECTIONS, THEN THE EXISTING UTILITIES SHALL BE RELOCATED TO ALLOW CLEARANCE FOR THE WATER MAIN TO PASS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE EXISTING UTILITY PRIOR TO RELOCATION.
- 18. ENSURE RESIDENT ACCESS MAINTAINED AT ALL TIMES. SINGLE LANE ALTERNATING TRAFFIC PERMITTED AS LONG AS FLAGGED OR AUTOMATED SIGNAL CONTROLLED. NO FULL CLOSURE WITHOUT AT LEAST TWO WEEK ADVANCED NOTICE WITH TIME TO REVIEW DETOUR PLAN.

NO.	REVISION DESCRIPTION	BY	DATE	
				S
				D

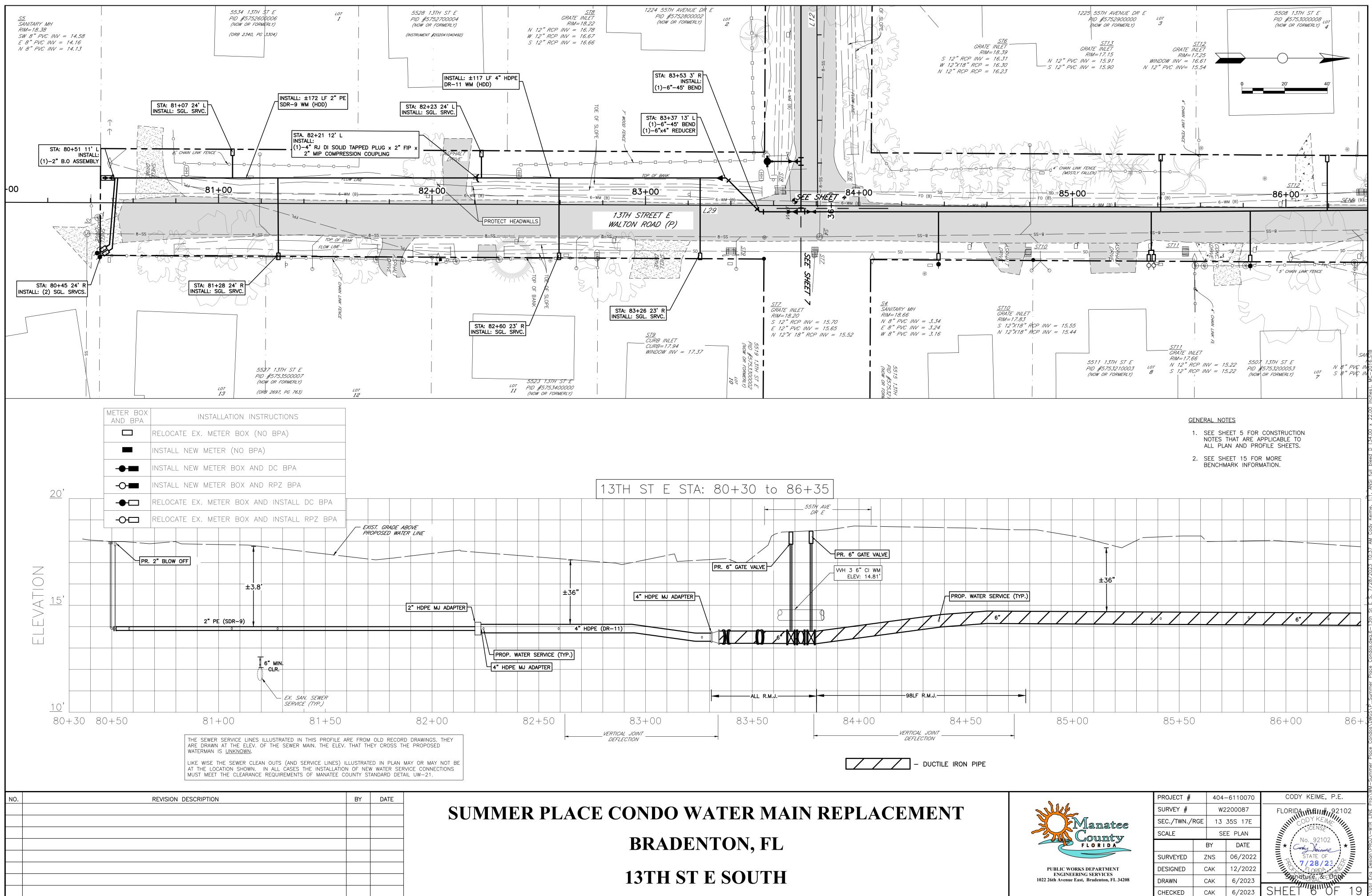


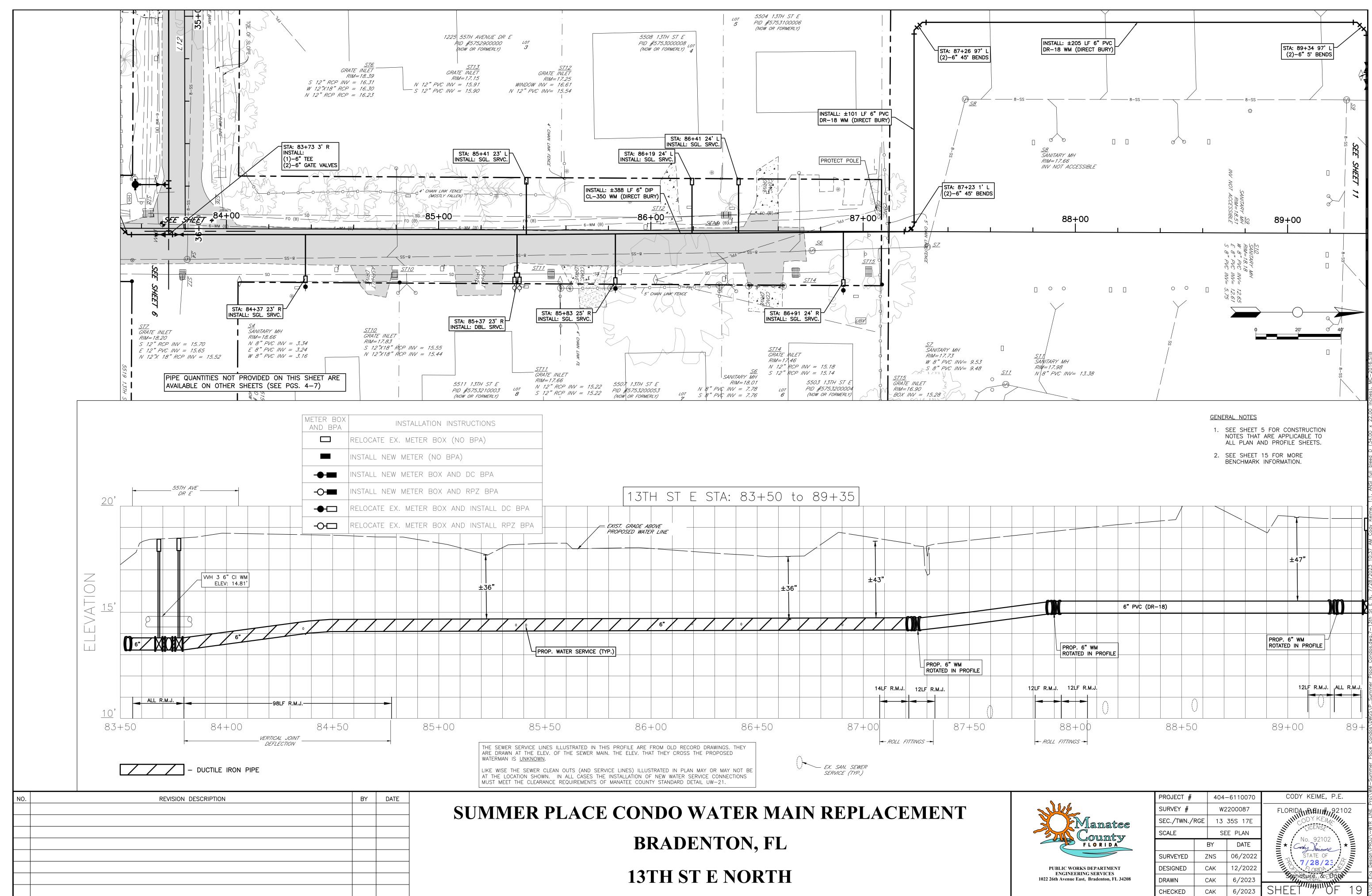


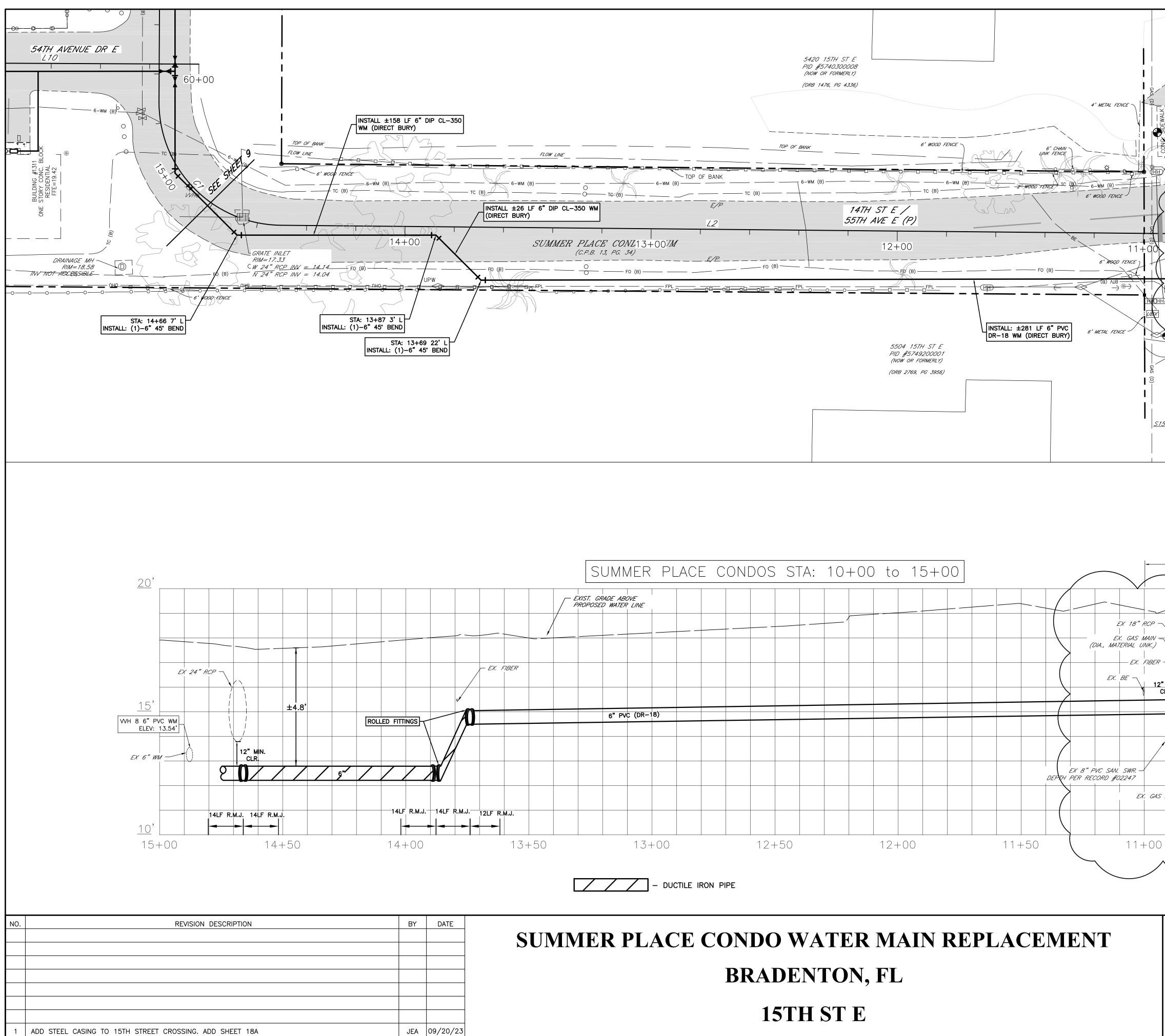
CHECKED

CAK

6/2023







STA: 10- INSTALL: (1)-6" TEE	NG MITERED END SECTION S 18" CMP INV=16.80 +09 17' L	0 20' 40' 5435 15TH ST E PID #1827100209 (NOW OR FORMERLY) (INSTRUMENT #201941093588) 5505 15TH ST E PID #1829600004
SANITARY MH RIM=19.77 N 8" PVC INV= 12.95 S 8" PVC INV= 12.90	MITERED END SECTION N 18" CMP INV=16.40	
——15TH ST E ——	NOTES THAT ALL PLAN A 2. SEE SHEET	5 FOR CONSTRUCTION T ARE APPLICABLE TO AND PROFILE SHEETS. 15 FOR MORE K INFORMATION.
^	VVH 5 1.5" PE FIBER ELEV: 16.46' VVH 4 6" CI W ELEV: 15.7 FIBER 15' EX 6" WM	/M 6'
VVH 7 GAS ELEV: 12.28' 5 MAIN 70LF R.M.J. 10+50	EX B" PVC SAN. SWR.DEPTH PER RECORD #0224710+00	Condee Dwice Blace Condoe dwn 8
Manatee	PROJECT # 404-6110070 SURVEY # W2200087 SEC./TWN./RGE 13 35S 17E SCALE SEE PLAN	CODY KEIME, P.E. FLORIDATION FREMARINE CODY KEIME, P.E.

SURVEYED

DESIGNED

CHECKED

DRAWN

FLORIDA

PUBLIC WORKS DEPARTMENT

1022 26th Avenue East, Bradenton, FL 34208

ENGINEERING SERVICES

STATE OF

9/26/2

Signature & Dat

SHEET 8 OF 19

DATE

06/2022

12/2022

6/2023

6/2023

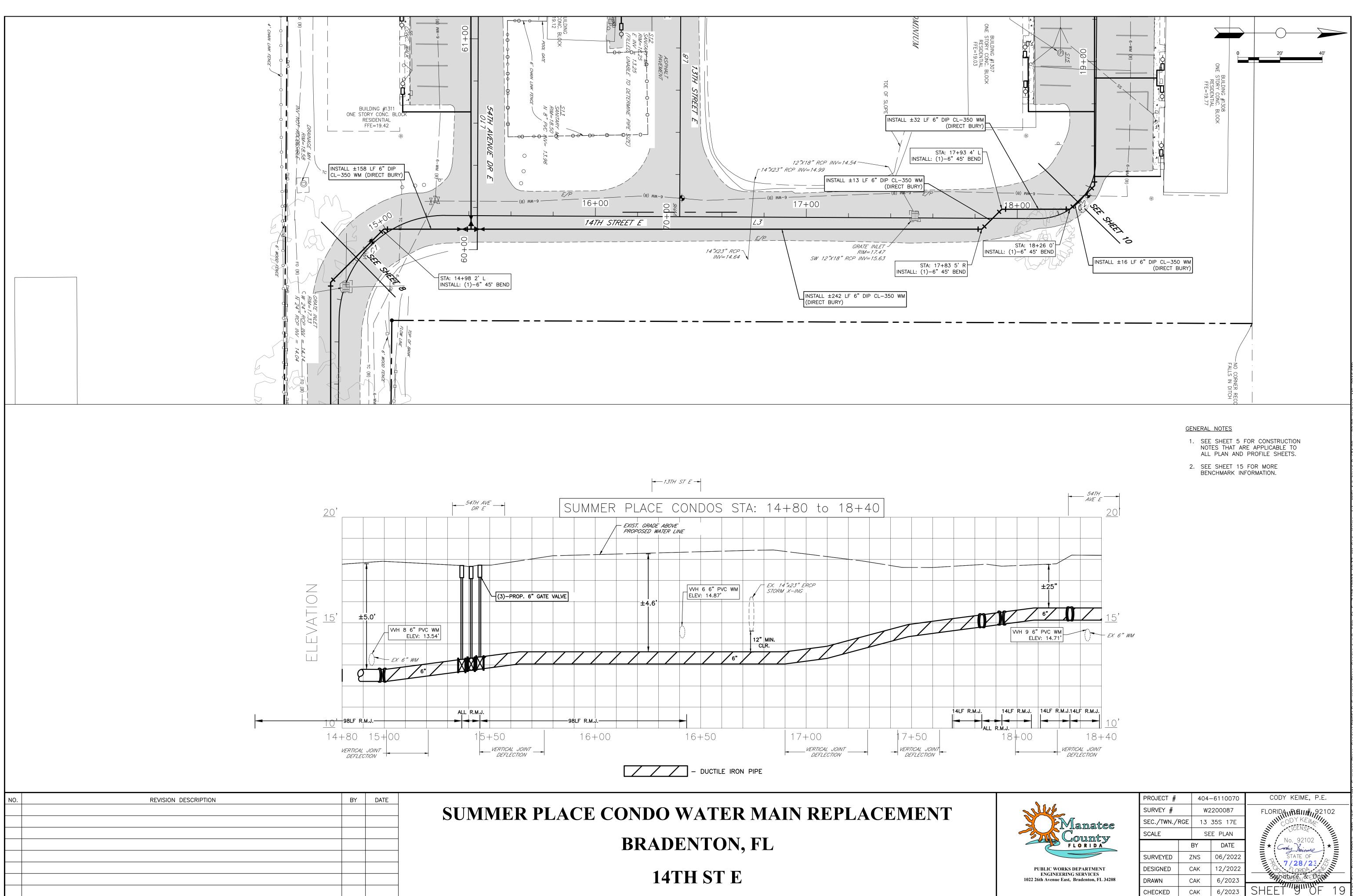
ΒY

ZNS

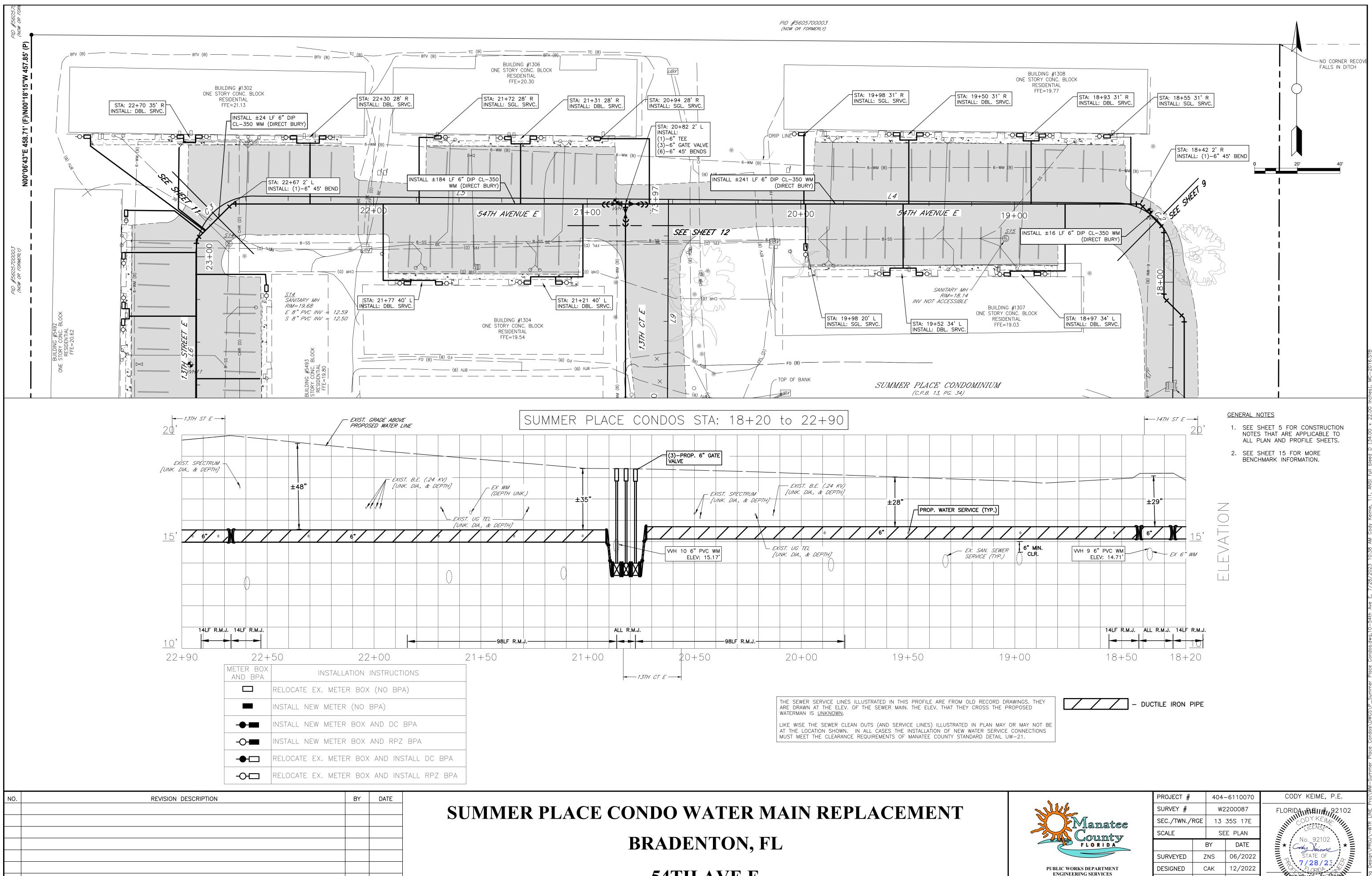
CAK

CAK

CAK







54TH AVE E

1022 26th Avenue East, Bradenton, FL 34208

6/2023

6/2023

*"4*10"

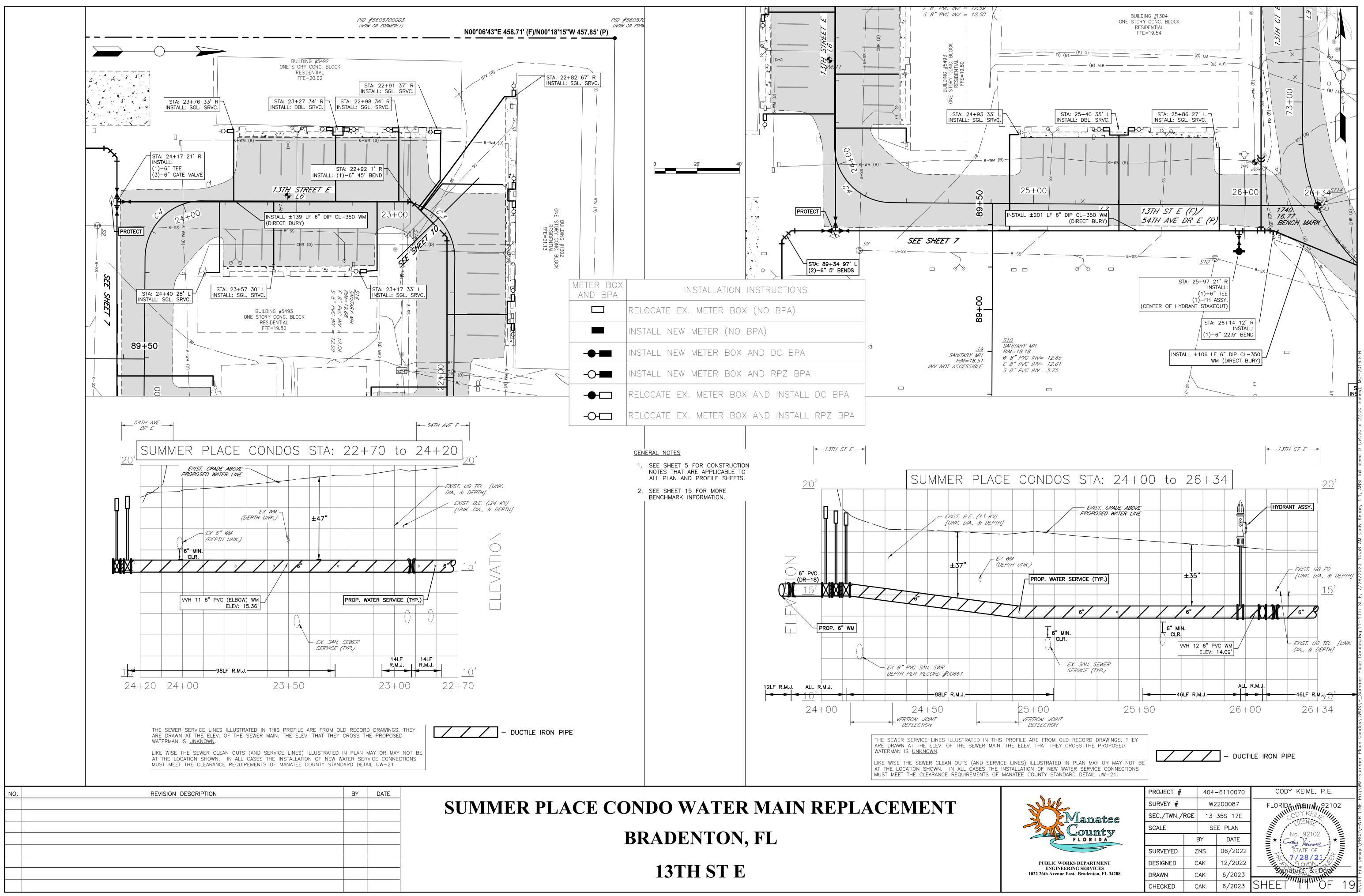
SHEET

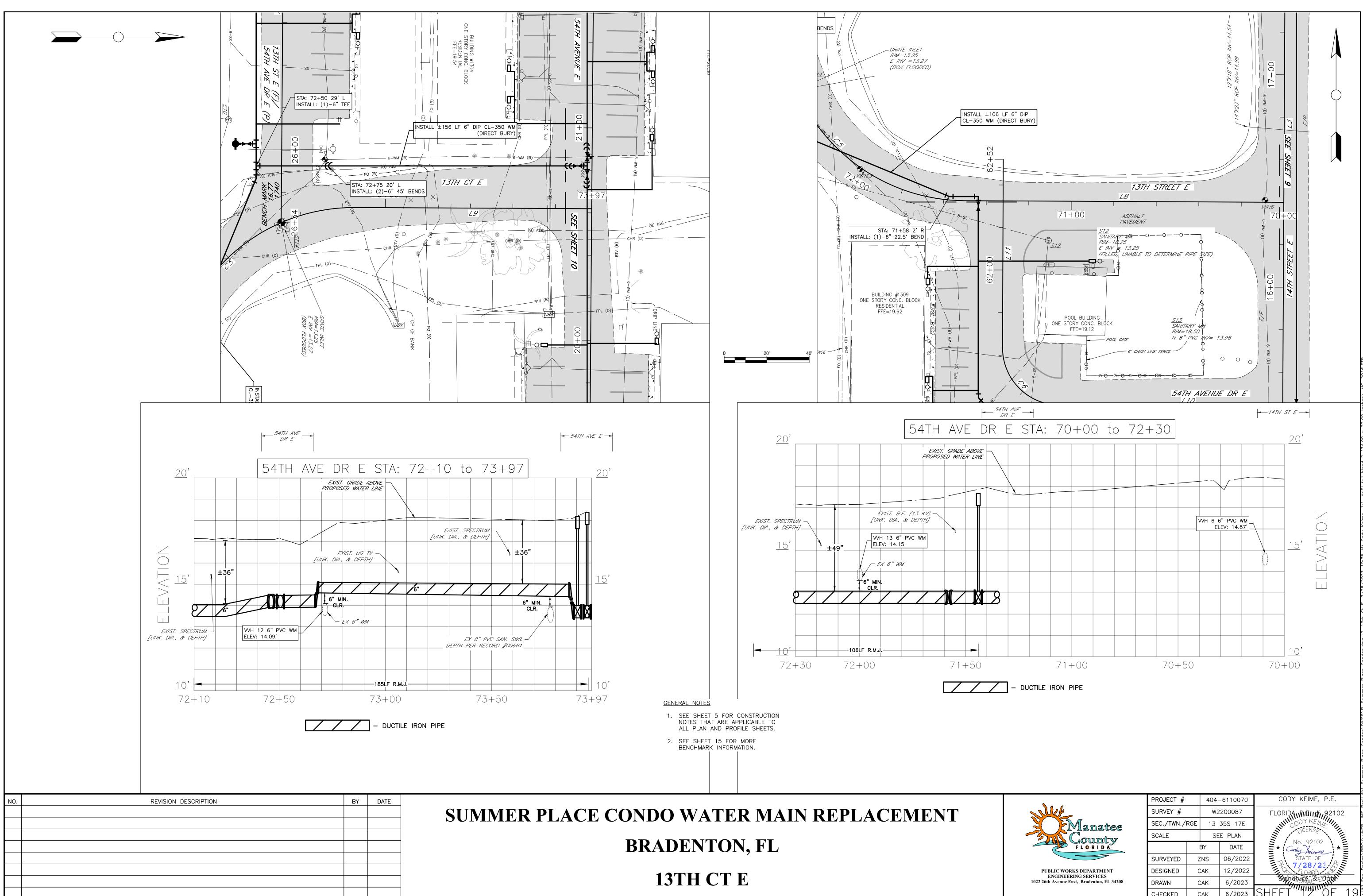
CAK

CAK

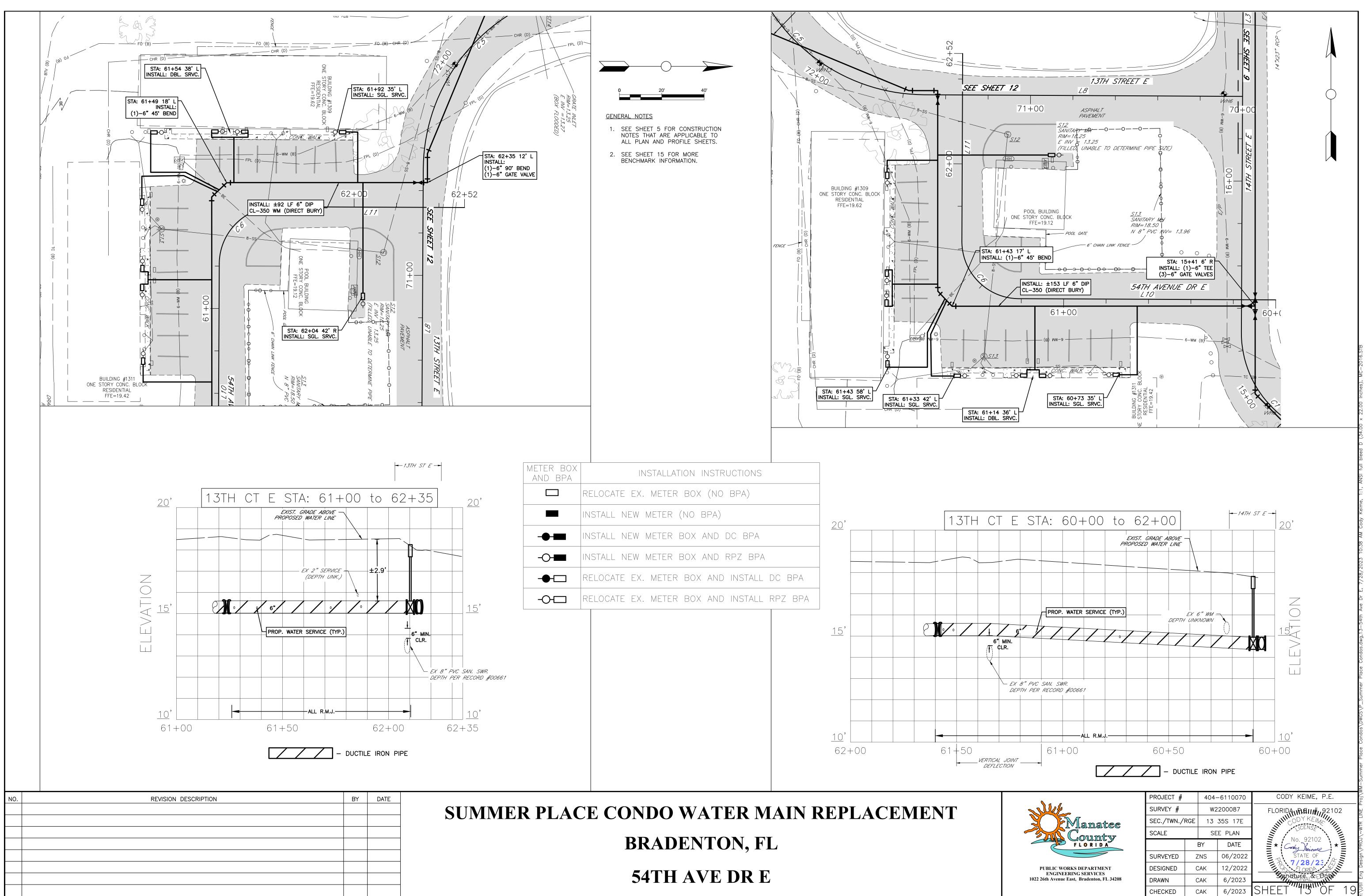
DRAWN

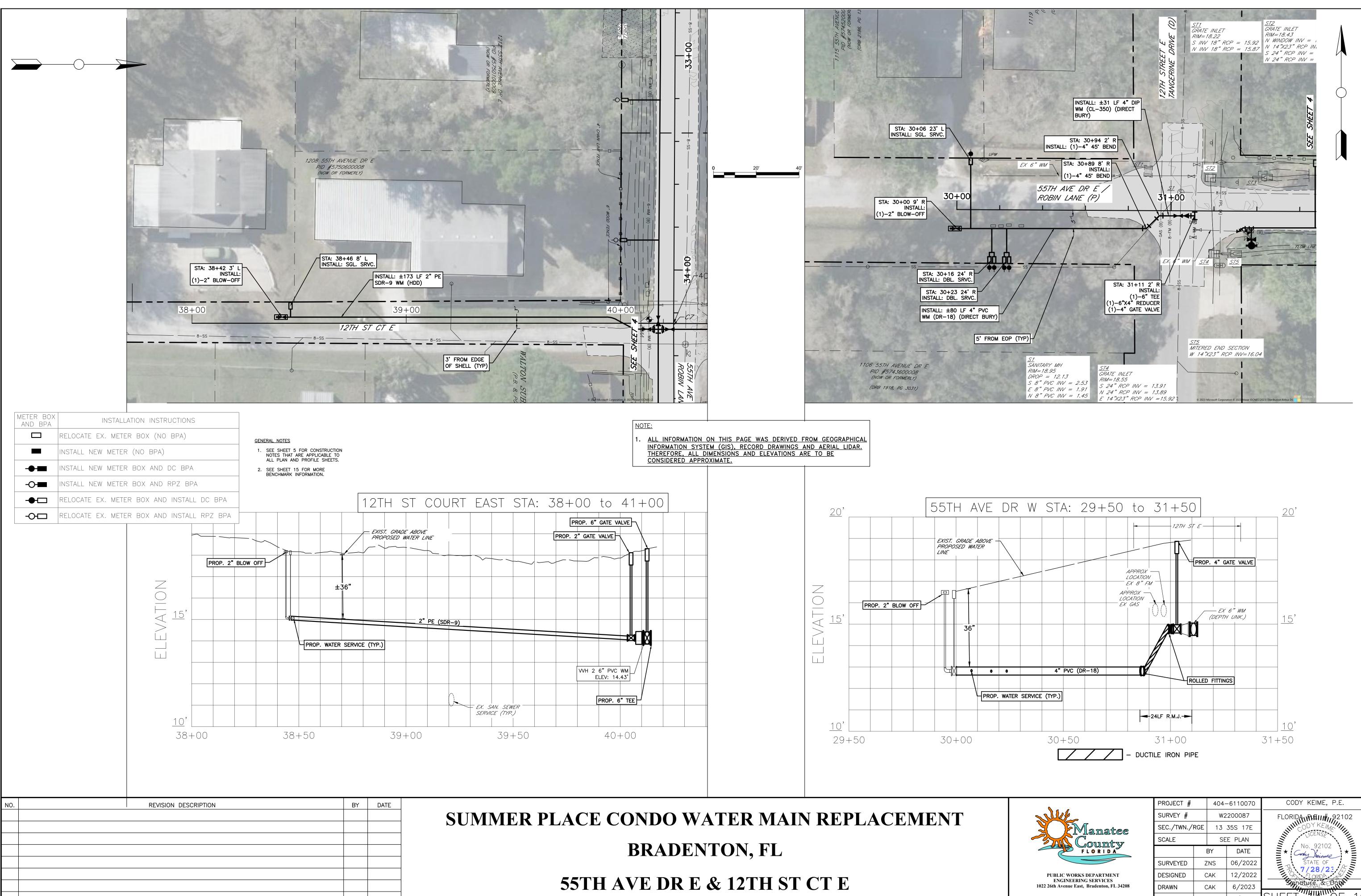
CHECKED



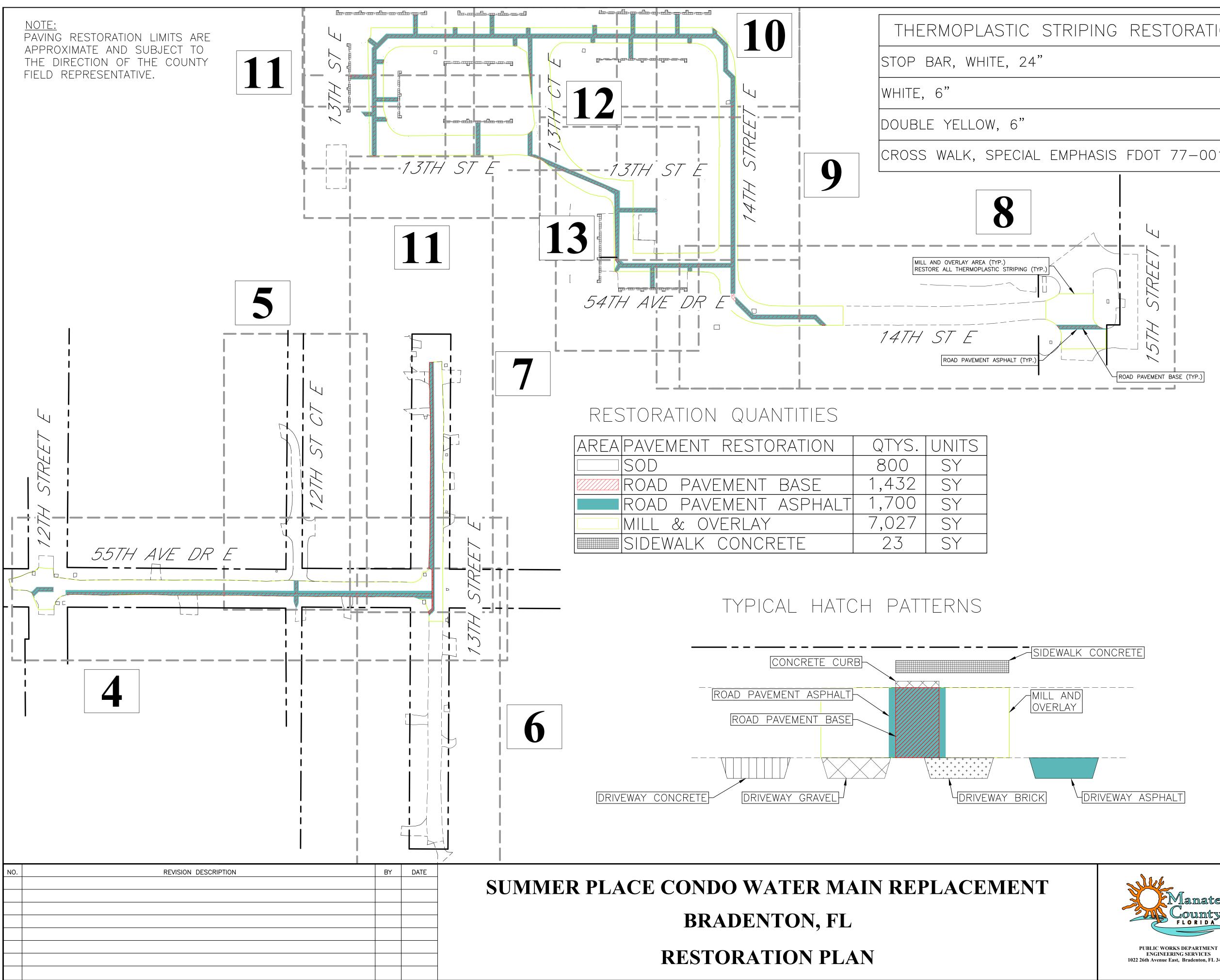


					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	PROJECT #		404-	-6110070	CODY KEIME, P.E.
NUCH	SURVEY #		W2	200087	FLORIDANITEIII#1,92102
Manatee	SEC./TWN./RGE		13 35S 17E		$\square$ $\square$ $\square$ $\square$ $\square$ $\square$ $\square$
CONDETSE	SCALE		SEE PLAN		
FLORIDA		Bì	/	DATE	No. 92102
	SURVEYED	ZN	S	06/2022	STATE OF 7/28/23
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES	DESIGNED	CA	K	12/2022	
1022 26th Avenue East, Bradenton, FL 34208	DRAWN	CA	К	6/2023	S A THE POOL
	CHECKED	CA	К	6/2023	SHEET """""""""""""""""""""""""""""""""""





	PROJECT #		404-	-6110070	CODY KEIME, P.E.
allet	SURVEY #		W2	200087	FLORIDA, 17.611, #1,92102
Manatee	SEC./TWN./RGE		13 35S 17E		IN ODY KEMAN
Gounty	SCALE		SE	E PLAN	No. 92102
FLORIDA		l	BY	DATE	* Conty Deinne *
	SURVEYED	Z	INS	06/2022	STATE OF
PUBLIC WORKS DEPARTMENT	DESIGNED	C	CAK	12/2022	LORDA
ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DRAWN	C	CAK	6/2023	Signature & Dotter
	CHECKED	C	CAK	6/2023	SHEET 44 OF 19



AREA	PAVEMENT RESTORATION	QTYS.	UNITS
	SOD	800	SY
	ROAD PAVEMENT BASE	1,432	SY
	ROAD PAVEMENT ASPHALT	1,700	SY
	MILL & OVERLAY	7,027	SY
	SIDEWALK CONCRETE	23	SY

NG RESTORATION	QTYS.	UNITS
	12	LF
	40	LF
	80	LF
SIS FDOT 77-001	0	LF

Manatee Gounty FLORIDA	
DUDI IC WODKS DEDADTMENT	

ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

PROJECT #		404-	-6110070	CODY KEIME, P.E.
SURVEY #		W2	200087	FLORIDA, R. F. 11/#, 22102
SEC./TWN./	RGE	13	35S 17E	UNIT CODY KEIME
SCALE		1	"=60'	FLORIDA PEINE ODY KEIME No. 92102 * Confr Deine
		BY	DATE	* Contry Jeinme *
SURVEYED	Z	ZNS	06/2022	STATE OF
DESIGNED	C	CAK	12/2022	<b>7/28/23</b>
DRAWN	0	CAK	6/2023	Signature La Endler
CHECKED	C	CAK	03/2022	SHEET "15""OF 19

### THE INFORMATION BELOW IS EXTRACTED FROM THE SURVEYORS REPORT FOR THE PURPOSE OF CONSTRUCTION. THE FULL SURVEYORS REPORT AND CAD DELIVERABLES ARE AVAILABLE UPON REQUEST, FROM THE MANATEE COUNTY, PUBLIC WORKS DEPARTMENT, UTILITY ENGINEERING DIVISION.

### <u>Topographic</u> Survey

In Section 13, Township 35 South, Range 17 East Manatee County, Florida

SURVEY CREATED BY: ZNS ENGINEERING LC

SURVEYOR NOTES:

- 1. BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, AS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (2011), FOR THIS SURVEY WAS ESTABLISHED USING REAL TIME KINEMATIC- GLOBAL POSITIONING SYSTEM (RTK GPS) OBSERVATIONS WITH CORRECTION SIGNALS PROVIDED BY FLORIDA DEPARTMENT TRANSPORTATION (FDOT) VIRTUAL REFERENCE STATIONS (VRS) NETWORK, WITH SUBSEQUENT CHECKS TO PUBLISHED HORIZONTAL CONTROL STATIONS UTILIZING THE SHARED SOLUTION RESUL NGS BENCHMARK BREVARD (PID#D05094) AND SWEET GUM (PID#DM6225). THE SOUTH BOUNDARY OF THE HEREON DESCRIBED PROPERTY BEARS N89°34'16"W.
- 2. UNLESS NOTED, LOCATIONS LIMITED TO OBSERVABLE, ABOVE GROUND IMPROVEMENTS. NO UNDERGROUND IMPROVEMENTS HAVE BEEN LOCATED EXCEPT THOSE SHOWN HEREON. SOME FEA BE EXAGGERATED FOR CLARITY. DIMENSIONS SHOWN SUPERSEDE SCALED DIMENSIONS.
- 3. THIS SURVEY DOES NOT CERTIFY OR WARRANTY: TITLE, ZONING, EASEMENTS, OR FREEDOM FROM ENCUMBRANCES.
- 4. THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A CURRENT TITLE REPORT OR ABSTRACT AND THEREFORE DOES NOT NECESSARILY INDICATE ALL THE ENCUMBRANCES ON THE
- 5. THIS SKETCH IS NOT VALID IF WITHOUT THE ORIGINAL SIGNATURE AND RAISED SEAL OF A LICENSED FLORIDA PROFESSIONAL SURVEYOR & MAPPER. AN ELECTRONIC COPY MUST HAVE A VEF INDEPENDENT AUTHENTICATED SEAL AFFIXED.
- 6. ADDITIONS OR DELETIONS TO THIS SKETCH OF SURVEY BY OTHER THAN THE SIGNING PARTY IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY.
- 7. ALL MEASUREMENTS SHOWN HEREON ARE FIELD MEASURED UNLESS SPECIFICALLY ANNOTATED, NOTED OR OTHERWISE STATED ON THIS SKETCH OF SURVEY.
- 8. PARCEL INFORMATION SHOWN ON THIS SURVEY WAS TAKEN FROM THE MANATEE COUNTY PROPERTY APPRAISERS WEB SITE AND IS SUBJECT TO VERIFICATION.
- 9. THE INTENDED DISPLAY SCALE OF THIS 24"X36" PAPER SKETCH OF SURVEY IS 1"=20'. THE REDUCTION OF THIS SURVEY TO FIT A DIFFERENT SIZE MEDIA WILL RESULT IN A NON SCALEAE DRAWING. AN ELECTRONIC DATA FILE OF THIS SURVEY IN MODEL SPACE IS TO BE AT A SCALE OF 1 UNIT TO 1 UNIT.
- 10. ELEVATIONS SHOWN ON HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), AND ARE BASED ON NGS BENCH MARKS GIS 080 (PID-AG9185) WHICH HAS PUBLISHED ELEVATION OF 14.45 FEET; SWEET GUM (PID-DM6225), WHICH HAS A PUBLISHED ELEVATION OF 5.49 FEET (NAVD88); AND BREVARD (PID-D05094), WHICH HAS A PUBLISHED OF 20.20 FEET (NAVD88).
- 11. PARCEL IDENTIFICATION NUMBERS (PID) SHOWN HEREON WERE OBTAINED FROM THE MANATEE COUNTY PROPERTY APPRAISER WEBSITE IN FEBRUARY 2022 AND ARE NOW OR FORMERLY.

### SITE CONTROL:

DESIGNATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
PT #2580	1130632.572	477897.181	17.63'	BENCHMARK
PT #1810	1131007.281	478816.308	19.84'	BENCHMARK
PT #1740	1131183.810	478182.258	16.77'	BENCHMARK

				LEGEND
		EXIS	STING	
	$\bullet$	BENCH MARK	( )	BUSH
СМ		CONCRETE MONUMENT		TREE
	0	IRON PIPE	535	OAK TREE
	•	IRON ROD	X	PALM TREE
	Δ	HUB	ж.	PINE TREE
	۲	NAIL & DISK	×	
15.23		ELEVATION		
<u>(1234</u>	Ð	PARCEL ID NO.		
12378	5	PARCEL ID NO.	$\sim$	EDGE OF VEGETATION
<u>(</u> 77	)	LOT NO.		CHAIN LINK FENCE
	$\leftarrow$	GUY WIRE		WOOD FENCE
PP	ø	POWER POLE		BARBED WIRE FENCE
	, ¢	LIGHT POLE	FM	FORCE MAIN
	ď	MAIL BOX	PW	POTABLE WATER
	þ	SIGN	RCW	RECLAIMED WATER
REF	9	REFLECTOR	ss	SANITARY SEWER
	۲	SPRINKLER	s	STORM DRAIN
	©	GAS MARKER	GAS	GAS LINE
	-0-	BACKFLOW PREVENTER	OCHR	OVERHEAD CHARTER
	No	BLOW OFF VALVE	CHR	UNDERGROUND CHARTER
FH	Ŷ	FIRE HYDRANT	OE	OVERHEAD ELECTRIC
WV	Χ	WATER VALVE	BE	UNDERGROUND ELECTRIC
ARV	(A)	AIR RELEASE VALVE	OH FTR	OVERHEAD FRONTIER
WM		WATER METER	FTR	UNDERGROUND FRONTIER
	S	SANITARY SEWER MANHOLE	PCO	UNDERGROUND PRECO
	0	SANITARY SEWER CLEAN OUT	FPL	UNDERGROUND FPL
SB#1	٠	SOIL BORING LOCATION	—— он ——	OVERHEAD UTILITY
TEL (	TED	TELEPHONE SERVICE BOX	+++++++++++++	RAIL ROAD TRACKS
UE	28	UTILITY BOX		EDGE OF CONCRETE
(K	)	UTILITY RISER		EDGE OF ROAD
		FLOW DIRECTION		TOE OF SLOPE
GI		GRATE INLET		TOP OF BANK
[		MITERED END SECTION		PROPERTY LINE
C	)	STORM SEWER MANHOLE		RIGHT OF WAY

R/W

CONC

BOC

REVISION DESCRIPTION	BY	DATE	
			<b>SI</b> II
			1
	REVISION DESCRIPTION	REVISION DESCRIPTION    BY      Image: Second sec	REVISION DESCRIPTION      BY      DATE        Image: Comparison of the system of

### BASELINE HORIZONTAL CONTROL TABLE

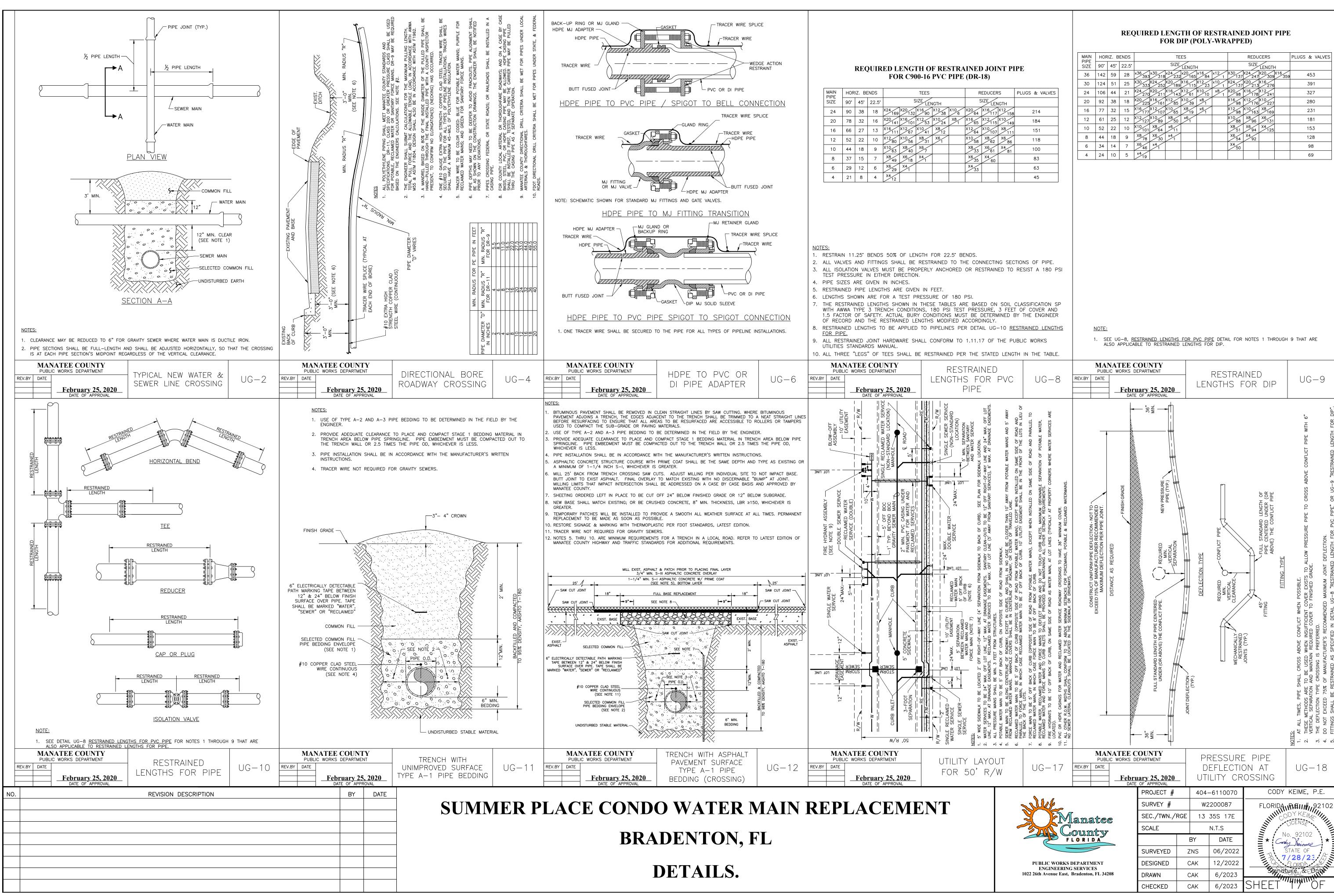
Г	I				1	13TH ST E PLA	_AN															
Γ	SEGMENT	LINE/CHORD		CHORD	ARC												12TH ST	ſ CT E				
		BEARING L N00°14'24.02"E 9	LENGTH L 950.00'	LENGIH   L	LENGTH	TANGE		0N STATION	EAS	ASTING EAST ,234.8834 1,131,18	TING 184.8760 029.0000	SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC H LENGTH	RADIUS	START STAF TANGENT STAT	TART END ATION STATION	START NORTHING EASTING	NG NOF	END ORTHING EASTING
L	L	L								/23.0200 +7.0,02	_9.0000	L15	N00°17'06.86"E	. 353.80'			,	40+0	-00.00 43+53.80	30 1,130,590.10 477,851.4		0,943.9001 7,853.2333
						13TH C	CT E								l	·		PLACE CONDOS				
	SEGMENT	LINE/CHORD BEARING	LINE LENGTH	H CHORD LENGTH	) ARC H LENGTH	RADIUS -	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING	SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH		H RADIUS	START TANGENT		STATION   NO	START NORTHING EASTING	END NORTHING EASTING
A OF 1983 (2011), CONTROL	L17	N89°44'18.36"W	121.13'	· · · · · · · · · · · · · · · · · · ·				60+00.00	61+21.13	3 1,131,035.0360 478,426.9247	1,131,035.5890 478,305.7924	L1	N89°27'32.78"W	100.00'	,				10+00.00 11		30,965.3040 78,910.6530	
RIDA DEPARTMENT OF ED SOLUTION RESULTS FOR	L10	N89°44'18.36"W	121.13'	,				60+00.00	61+21.13	3 1,131,035.0360 478,426.9247		L2	N89°27'32.93"W	350.44'	,		,		11+00.00 14	4+50.44 1,13/	30,966.2480 78,810.6600	0 1,130,969.55 0 478,460.23
HEREON. SOME FEATURES MAY	L16	N89°44'18.36"W	/ 121.13'					60+00.00	61+21.13	3 1,131,035.0360 478,426.9247	1,131,035.5890 478,305.7924	L24	N89°27'32.93"W	350.44'	,		1		11+00.00 14	4+50.44 1,13	30,966.2480 78,810.6600	0 1,130,969.55 0 478,460.23
	C14	N44°41'53.98"W	/	38.18'	· 42.41'	27.00' N89	39°41'53.64"W	61+21.13	61+63.54	4 1,131,035.5890 478,305.7924		L23	N89°27'32.93"W	350.44'	,		1		11+00.00 14		30,966.2480 78,810.6600	
JMBRANCES ON THE PROPERTY. Y MUST HAVE A VERIFIED	C6	N44°41'53.98"W	/	38.18'	42.41'	27.00' N89	39°41'53.64"W	61+21.13	61+63.54	4 1,131,035.5890 478,305.7924		C1	N44°34'43.70"W	<i>i</i>	70.56'	' 78.33'	' 50.00'	N89*27'32.93"W	W 14+50.44 15		30,969.5560 78,460.2353	
MUSI HAVE A VENILED	L18	N00°14'05.95"E	_ 88.51'	;	'			61+63.54	62+52.05	5 1,131,062.7307 478,278.9350	1,131,151.2381 478,279.2980	C9	N44°34'43.70"W	/	70.56'	' 78.33'	' 50.00'	N89°27'32.93"W	W 14+50.44 15		30,969.5560 78,460.2353	
	L11	N00°14'05.95"E	. 88.51'	++	'			61+63.54	62+52.05	5 1,131,062.7307 478,278.9350	1,131,151.2381 478,279.2980	L22	N00°18'05.53"E	. 281.22'					15+28.77 18		31,019.8169 78,410.7080	
			,			54TH AVE	E DR E	L				L28	N00°18'05.53"E	_ 281.22'	,,				15+28.77 18	8,00,00 1,13	31,019.8169 78,410.7080	9 1,131,301.03
IN A NON SCALEABLE	SEGMENT	LINE/CHORD BEARING	LINE LENGTH			RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING	L3	N00°18'05.53"E	281.22'	(,				15+28.77 18	8,00,00 1,13	31,019.8169 78,410.7080	9 1,131,301.0
G9185) WHICH HAS A HAS A PUBLISHED ELEVATION	L20	N89°41'53.67"W	/ 150.26'		'			70+00.00	71+50.26	6 1,131,131.0000 478,411.2930		C2	N44°37'17.07"W	,	38.13'	· 42.34'	' 27.00'	N00°18'05.53"E	'E 18+09.99 18	8,52,33 1,131	31,301.0318 78,412.1880	8 1,131,301.0
OR FORMERLY.	L21	N89°41'53.67"W	/ 150.26'	,	,			70+00.00	71+50.26	, 1,131,131.0000 478,411.2930	1,131,131.7913 478,261.0393	C10	N44°37'17.07"W	,	38.13'	' 42.34'	' 27.00'	N00°18'05.53"E	'E 18+09.99 18		31,301.0318 78,412.1880	B 1,131,301.0 0 478,412.1
	L8	N89°41'53.67"W	/ 150.26'	,				70+00.00	71+50.26		1,131,131.7913 478,261.0393	L4	N89°32'39.68"W	/ 209.62'	,, ,				18+52.33 20	1,131	, 31,328.1730 178,385.4031	0 1,131,329.8
	C13	N44°41'53.74"W	/	122.04'	135.55'	86.29' N8'	39°41'53.67"W	71+50.26	72+85.80	0 1,131,131.7913 478,261.0393	1,131,131.7913 478,261.0393	L26	N89°32'39.68"W	/ 209.62'	, 				18+52.33 20	1,131	31,328.1730 178,385.4031	0 1,131,329.8
	C5	N44°41'53.74"W	/	122.04'	135.55'	86.29' N8'	39°41'53.67"W	71+50.26	72+85.80	0 1,131,131.7913 478,261.0393	1,131,131.7913 478,261.0393	L25	N89°32'38.58"W	/ 194.02'	,, ,				20+61.95 22	1,131	, 31,329.8400 78,175.7890	0 1,131,331.3
	L19	N00°18'06.19"E	. 111.30'	,	''''			72+85.80	73+97.1	1 1,131,218.5367 478,175.2029		L5	N89°32'38.58"W	/ 194.02'	,,,				20+61.95 22	1,131	31,329.8400 78,175.7890	0 1,131,331.3
	L9	N00°18'06.19"E	_ 111.30'	,				72+85.80	73+97.1		1,131,329.8400 478,175.7890	C11	S45°17'02.15"W	,	38.30'	· 42.57'	27.00'	N89°32'38.58"W	N 22+55.97 2	1,131	31,331.3840 77,981.7708	0 1,131,331.3
			,			55TH AVE	E DR W		 			C3	S45°17'02.15"W	v  ,	38.30'	, 42.57 <b>,</b>	27.00'	N89°32'38.58"W	W 22+55.97 2	1,131	31,331.3840 77,981.7708	0 1,131,331.3
	SEGMENT	LINE/CHORD BEARING	LINE LENGTH	CHORD LENGTH	ARC H LENGTH	RADIUS	START TANGENT	START STATION	END STATION	START NORTHING EASTING	END NORTHING EASTING	L6	S00°06'42.89"W						22+98.55 23	477	31,304.4376 77,954.5560	6 1,131,212.2
ABBREVIATIONS	L13	S89°41'10.20"E	423.94'	,	+			30+00.00	34+23.94	1 1 30 617 2240	1,130,614.9019		S00°06'42.89"W						22+98.55 23	477	31,304.4376 77,954.5560	6 1,131,212.2
RIGHT OF WAY	C7	S89°56'38.42"E		1.80'	1.80'	200.00' 58	89°41'10.20"E	34+23.94	34+25.74	1 1 30 614 90 19	1,130,614.9019		S44°43'46.47"E		38.08'	, 42.26'	27.00'	S00°06'42.89"W		4/7	31,212.2852 77,954.3760	2 1,131,212.
CONCRETE ASPHALT	L12	N89°47'53.37"E	_ 174.24'	,				34+25.74	35+99.9	1 1 30 614 9002	1,130,615.5140		S44°43'46.47"E		38.08'			S00°06'42.89"W		4/7	31,212.2852	2 1,131,212.
DRIVEWAY SIDEWALK EDGE OF PAVEMENT BACK OF CURB			J		<u> </u>		L					L7	S89°34'15.83"E						24+32.96 26	+//	77,954.3760 31,185.2340 77,981.1730	0 1,131,183.

## JMMER PLACE CONDO WATER MAIN REPLACEMENT **BRADENTON, FL**

**SURVEY CONTROL** 

PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

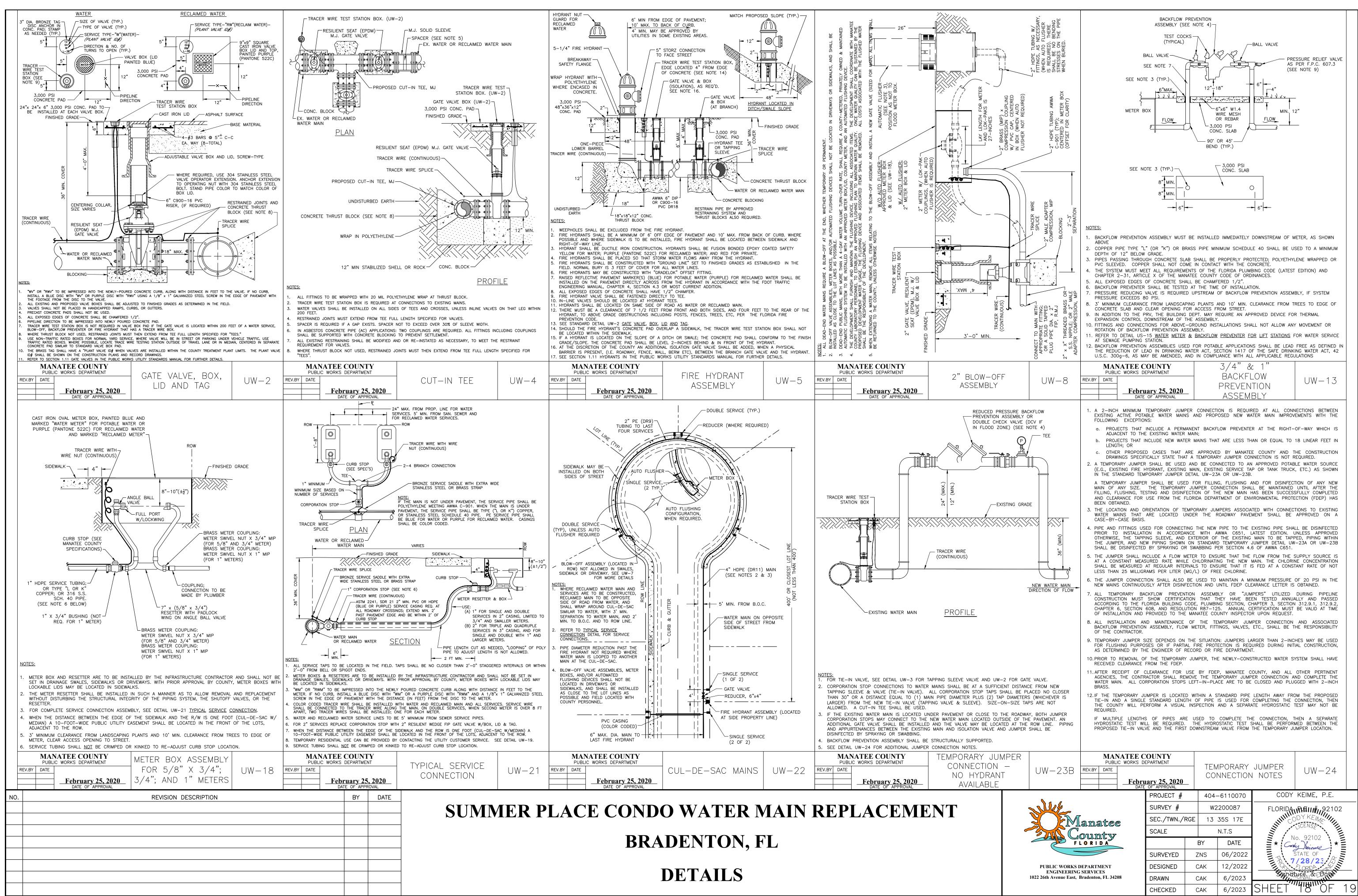
PROJECT #		404-	-6110070	CODY KEIME, P.E.
SURVEY #		W2	200087	FLORIDA 17 E11 #1, 92102
SEC./TWN./	RGE	13	35S 17E	CODY KEMA
SCALE			N.T.S	FLORIDA PHEIN#192102 CODY KEIME LICENSE No. 92102 * Cody Deinne *
		BY	DATE	* Costy heime *
SURVEYED	Z	ZNS	06/2022	STATE OF
DESIGNED	C	CAK	12/2022	
DRAWN	C	CAK	6/2023	Signature & EDate
CHECKED	C	CAK	6/2023	SHEET "16""OF 19
			,	



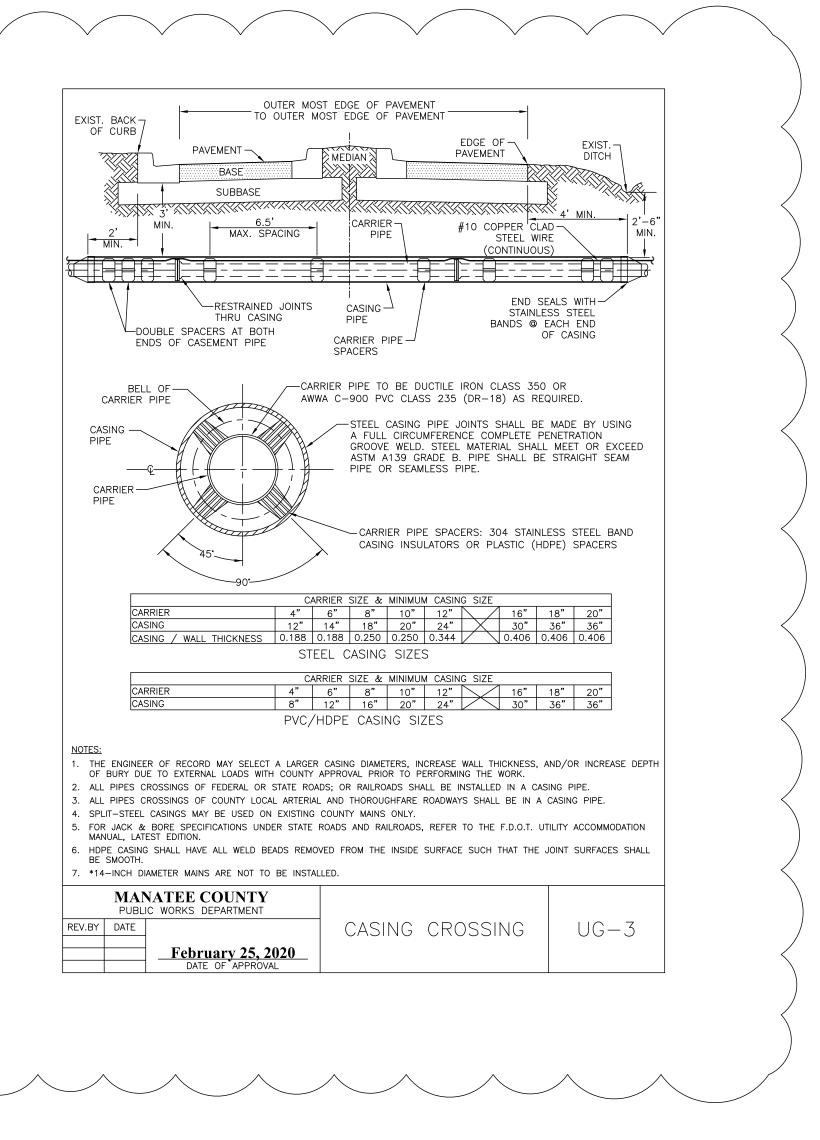
ERS	PLUGS & VALVES
ENGTH	
7 X12 7 158	214
5 X10	184
07 X8 111	151
2 X6 86	118
X4 81	100
$\hat{\mathbf{D}}$	83
	63
	45

MAIN PIPE	HOR	IZ. B	ENDS	TEES							REDU	CERS	PLUGS	& VALVES	
SIZE	90.	45 <b>°</b>	22.5 <b>'</b>			SIZE	LENGTH	4			SIZE	LENGTH			
36	142	59	28	×36 393	x30 318	×24 232	x20 165	x16 84	×12 1	X30 137	X24 247	X20 309	X16 359		453
30	124	51	25	X30 333	X24 252	X20 189		X12 23	x10 1	X24 137	X20 213	X16 276			391
24	106	44	21	X24 270	X20 211	X16 143		X10 10	×8 1	X20 98	X16 178	X12 241			327
20	92	38	18	X20 225	X16 161	X12 85	X10 39	×8_1		X16 98	X12 176	X10 227			280
16	77	32	15	X16 177	X12 107	X10 65	X8 19	×6 1		X12 98	X10 163	X8 169			231
12	61	25	12	X12 127	X10 89	X8 50	x6 1			X10 88	X8 96	X6 131			181
10	52	22	10	X10 101	X8 64	×6 11				X8 51	X6 94	X4 125			153
8	44	18	9	X8 78	X6 30	X4 1				X6 54	X4 92				128
6	34	14	7	X6 46	x4 1					X4 50					98
4	24	10	5	×4 19											69





NO.	REVISION DESCRIPTION	BY	DATE	
				SU
1	ADD STEEL CASING TO 15TH STREET CROSSING. ADD SHEET 18A	JEA	09/26/23	



## MMER PLACE CONDO WATER MAIN REPLACEMENT BRADENTON, FL

## DETAILS



PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208

					ć
PROJECT #			404-	-6110070	CODY KEIME, P.E.
	SURVEY # SEC./TWN./RGE SCALE		W2	200087	FLORIDAN FLORIDA 102
			13	35S 17E	FLORIDANDE KEINE STATE OF 9/26/23
			N.T.S		No. 92102
			BY	DATE	STATE OF *
	SURVEYED	Z	ZNS	06/2022	9/26/23
	DESIGNED		CAK	12/2022	LORDA C
	DRAWN	C	CAK	6/2023	Signature & pare
	CHECKED	HECKED CAK		6/2023	SHEET 18A OF 19

