

LEGEND

ABBREVIATIONS

EL or ELEV	ELEVATION
INV	INVERT
LF	LINEAR FEET
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NC	NOT IN CONTRACT
SB	SOIL BORING
STA	STATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
CL	CENTERLINE
FL	FLOW LINE
CMP	CORRUGATED METAL PIPE
D.I.P.	DUCTILE IRON PIPE
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
M.H.	MANHOLE
STR	STORM SEWER STRUCTURE
XXX' LT/XXX' RT	FEET LEFT or FEET RIGHT

SYMBOLS

	IN-LINE PLUG VALVE W/ BOX
	IN-LINE GATE VALVE W/ BOX
	FIRE HYDRANT, COMPLETE
	WATER METER
	IRRIGATION METER
	SANITARY SEWER MANHOLE
	SANITARY SEWER LATERAL & CLEAN-OUT
	STORM SEWER & STRUCTURE
	ENDWALL
	PROPOSED ELEVATION
	EXISTING ELEVATION
	DIRECTION OF DRAINAGE FLOW
	PROPOSED CONTROL STRUCTURE
	PROPOSED LAKE
	PROPOSED LITTORAL SHELF
	MINIMUM FINISHED FLOOR ELEVATION

NOTE: OPEN SYMBOLS AND DASHED LINES DENOTE EXISTING IMPROVEMENTS

SITE DEVELOPMENT DATA:

PROJECT: ARIA

ENGINEER: STANTEC, INC.
6900 PROFESSIONAL PKWY EAST
SARASOTA, FL 34240

SURVEYOR: BRIGHAM ALLEN LAND SURVEYING
807 US 41 BYPASS SOUTH SUITE E
VENICE, FL 34285

DEVELOPER/OWNER: NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC
5800 LAKEWOOD RANCH BLVD
SARASOTA, FL 34240

ZONING: MILANO PUD

FLOOD ZONE: 'AE' 12.6,12.7,12.8,12.9 (NAVD 1988) & 'X' (SEE SHEET #2)
PER FIRM #12115C0332F & 12115C0244F

EXISTING LAND USE: PASTURE - AGRICULTURE - VACANT

PROPOSED LAND USE: SINGLE FAMILY RESIDENTIAL

SEWER PROVIDER: SARASOTA COUNTY UTILITIES

WATER PROVIDER: CITY OF VENICE UTILITIES

ELECTRIC PROVIDER: FLORIDA POWER & LIGHT

GARBAGE: CITY OF VENICE

PROJECT AREA: 176.39 AC

PROPOSED IMPERVIOUS: 35.2 AC

PID: PORTIONS OF PID#0392001000 AND #0389001000
AND ENTIRETY OF PID#039004020 AND #0390004010

DATUM: NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
(UNLESS SPECIFIED OTHERWISE)

SARASOTA COUNTY UTILITY CONSTRUCTION, FDEP AND FDOH
WATER AND WASTEWATER PERMITS ARE REQUIRED.

GENERAL NOTES:

THE HOMEOWNERS ASSOCIATION IS RESPONSIBLE FOR THE MAINTENANCE OF THE COMMON AREAS, STORMWATER
MANAGEMENT SYSTEM, IRRIGATION AND ROADS. THE WATER SYSTEM SHALL BE TURNED OVER TO THE CITY OF VENICE FOR
OWNERSHIP AND MAINTENANCE. THE SANITARY SEWER SYSTEM SHALL BE TURNED OVER TO SARASOTA COUNTY FOR
OWNERSHIP AND MAINTENANCE.

THE HOA DOCUMENTS SHALL BE CONSISTENT WITH THE HOA MAINTENANCE RESPONSIBILITIES IDENTIFIED.

THE DATUM OF THE ELEVATIONS SHOWN ARE NGVD 1929

TO CONVERT FROM THE GRADES SHOWN HEREIN IN THE NGVD 1929 DATUM TO THE NAVD 1988 DATUM, SUBTRACT 1.11
FT.

DEVELOPMENT ON THE ±177 ACRES IS CONSISTENT WITH THE LAND USE ILLUSTRATED ON THE PUD PLAN.

ANY WELLS ON SITE THAT WILL NOT BE USED MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN AN
APPROVED MANNER PURSUANT TO RULE 400-3.531(2) F.A.C.

ANY WELL DISCOVERED DURING EXCAVATION, EARTHMOVING OR CONSTRUCTION MUST BE REPORTED TO THE SARASOTA
COUNTY HEALTH DEPARTMENT, ENVIRONMENTAL HEALTH WITHIN 24 HOURS OF DISCOVERY.

IRRIGATION SHALL BE BY PRIVATE SYSTEM THROUGH LAKE AND WELL SUPPLEMENT.

LIFT STATION INTERIM CONDITIONS TO FINAL OPERATION ADJUSTMENTS:
FOR INTERIM CONDITION (ARIA AND WOODS) - WET WELL TO BE BUILT PER SPECS FOR
BUILD-OUT CONDITION WITH ONLY ONE EXCEPTION:
SET THE LEAD PUMP OFF ELEVATION AT ELEV = (-) 5.98

AT BUILD-OUT LEAD PUMP OFF ELEVATION TO BE CHANGED TO ELEV = (-) 6.28

CITY OF VENICE NOTES:

- ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT-OF-WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW PERMIT.
- ALL WORK CONDUCTED IN SARASOTA COUNTY AND/OR FDOT ROW SHALL REQUIRE A COPY OF THE ISSUED PERMITS.
- TREE REMOVAL PERMIT MUST BE OBTAINED FROM SARASOTA COUNTY NATURAL RESOURCES DEPARTMENT.
- POST DEVELOPMENT RUNOFF DOES NOT EXCEED PRE-DEVELOPMENT RUNOFF VOLUME OR RATE FOR A 24-HOUR, 25-YEAR STORM EVENT.
- ALL FIRE SERVICE BACKFLOW ASSEMBLIES SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR WITH A CLASS I, II, OR V CERTIFICATE OF COMPETENCY ISSUED BY THE STATE FIRE MARSHALL AS PER F.S. 633.521
- CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION
- ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE AND / OR SARASOTA COUNTY STANDARDS.
- CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION.
- ENGINEER'S QUANTITY ESTIMATE OF INFRASTRUCTURE IMPROVEMENTS:
ON SITE:
LINEAR FEET OF RECLAIMED WATER 0 LF
LINEAR FEET OF POTABLE WATER MAIN 11,688 LF
LINEAR FEET OF GRAVITY SEWER MAIN 10,793 LF
LINEAR FEET OF FORCE MAIN 223 LF
NUMBER OF MANHOLES 39

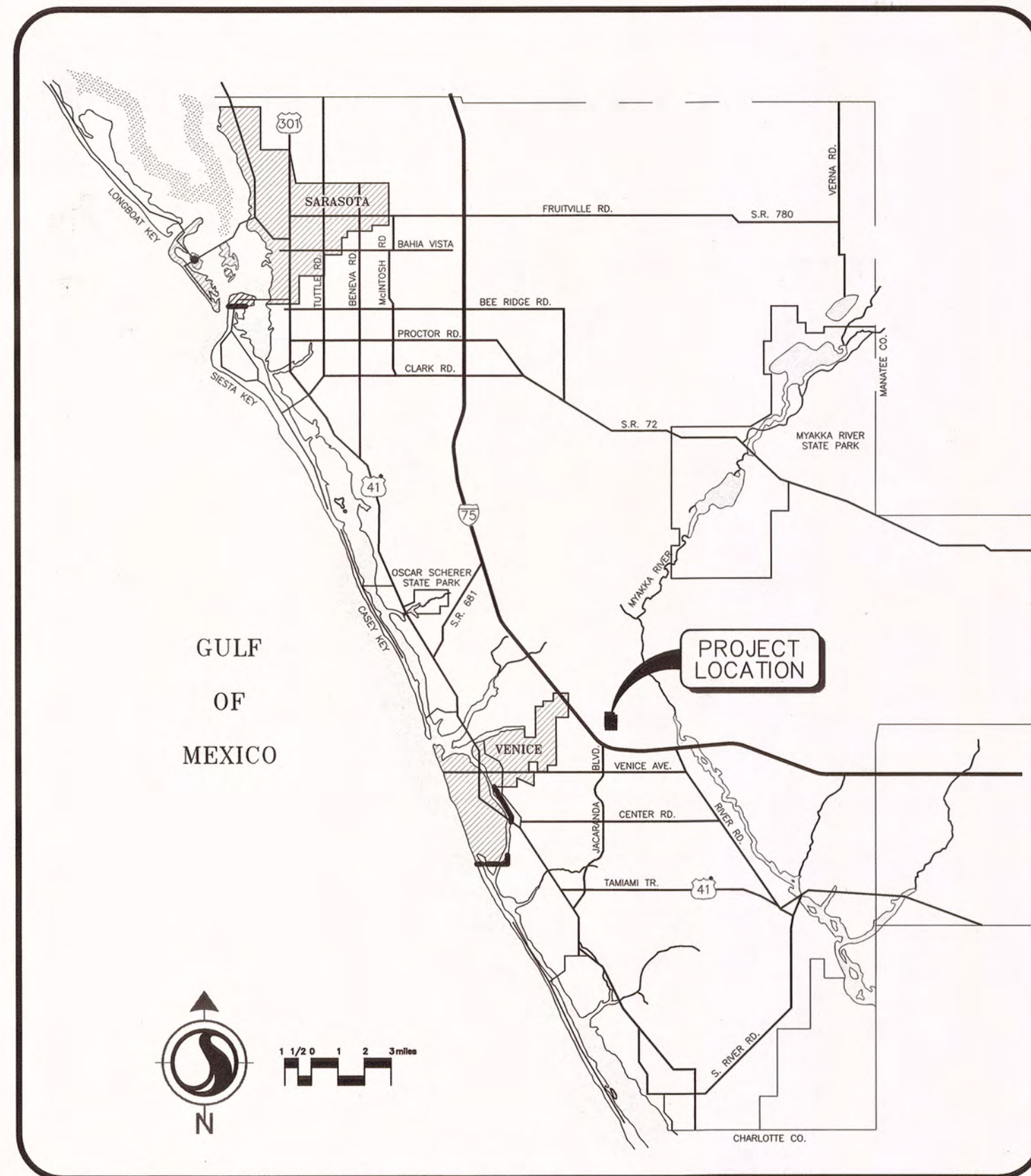
SUB-PHASE 3 WATER MAIN RECORD DRAWINGS FOR

ARIA

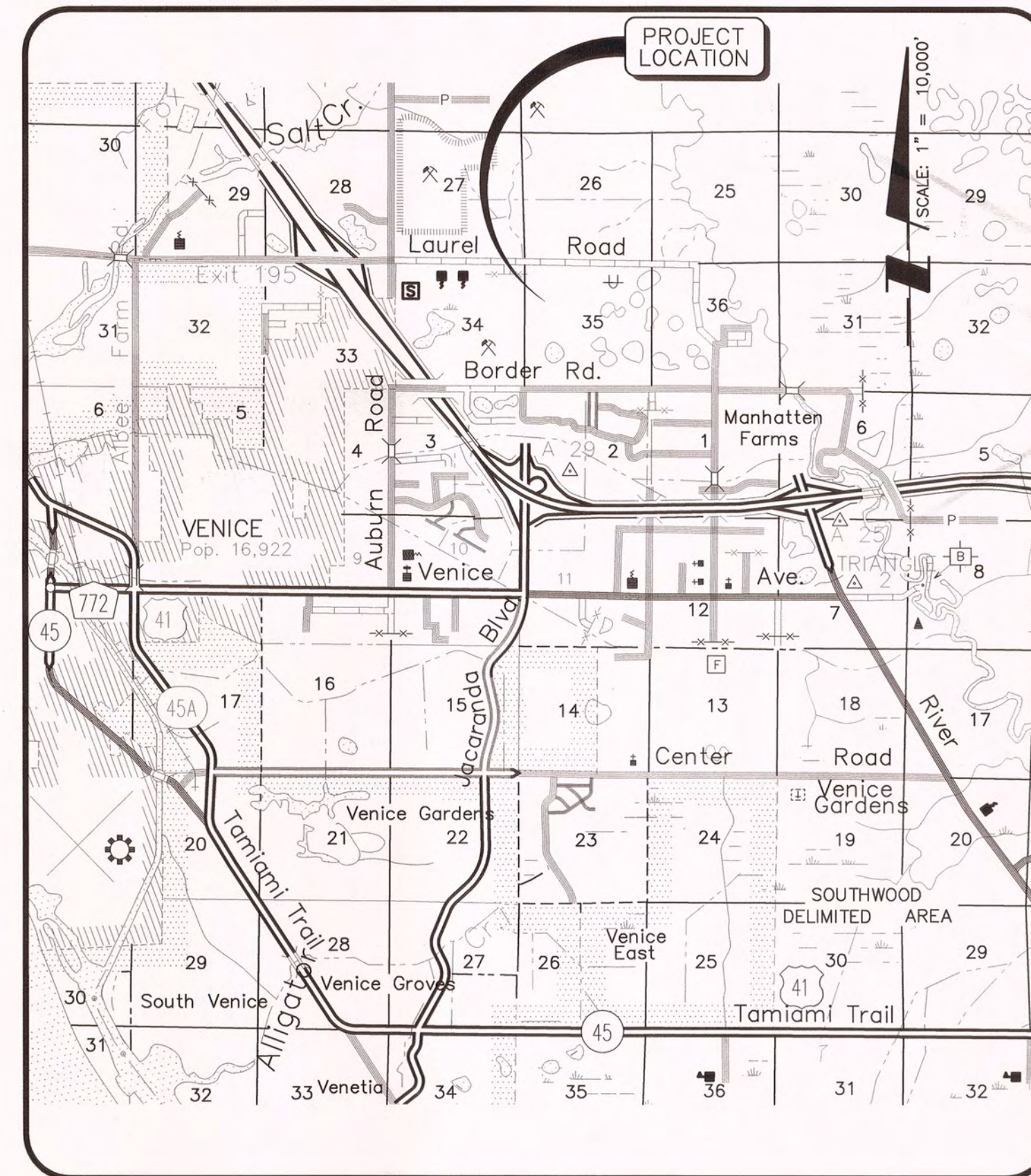
PART OF SECTION 35, TOWNSHIP 38 SOUTH,
RANGE 19 EAST,
SARASOTA COUNTY, FLORIDA

A DEVELOPMENT BY
NEAL SIGNATURE HOMES, LLC
5800 LAKEWOOD RANCH BLVD
SARASOTA, FLORIDA 34240
(941)-328-1111

APPROVED
APR 23 2020
RECORD DRAWINGS



LOCATION MAP



SITE MAP

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	AERIAL LOCATION MAP
3	EXISTING CONDITIONS PLAN
4	MASTER SITE PLAN
5-12	SITE PLAN
13	MASTER PAVING AND DRAINAGE PLAN
14-21	PAVING AND DRAINAGE PLAN
22	MASTER WATER AND SEWER PLAN
23	PLAN AND PROFILE KEY PLAN
24-26	PLAN AND PROFILE ARIA DRIVE
27-30	PLAN AND PROFILE GORELLI DRIVE
31-43	PLAN AND PROFILE BOCELLI DRIVE
44	PLAN AND PROFILE ROSSINI WAY
45	PAVING DETAILS
46	GRADING DETAILS
47	GRADING SECTIONS
48	DRAINAGE DETAILS
49	DRAINAGE DATA TABLE
50-51	OUTFALL CONSTRUCTION DETAILS
52	GENERAL UTILITY CONSTRUCTION DETAILS
53	WATER DISTRIBUTION CONSTRUCTION DETAILS
54	WASTEWATER COLLECTION CONSTRUCTION DETAILS
55-57	PLAN AND PROFILE OFFSITE SANITARY
58	LIFT STATION DETAILS
59	SIGNAGE AND MARKING PLAN
60	BEST MANAGEMENT PRACTICES PLAN
61	BEST MANAGEMENT PRACTICES DETAILS

SUPPLEMENTAL DRAWINGS

LANDSCAPE PLANS	
COVER	PLANTING PLAN KEY
PL1-8	PLANTING PLANS
PL9-10	LANDSCAPE NOTES
SARASOTA COUNTY SUPPLEMENTAL LIFT STATION DETAILS	
5 SHEETS	STANDARD FABRICATION PLANS FOR THREE PHASE DUPLEX LIFT STATION (COVER, BILL OF MATERIALS, CONTROL PANEL LAYOUT / DETAILS, CONTROL PANEL WIRING, PUMP CONTROL SCHEMATIC)
3 SHEETS	STANDARD INSTALLATION PLANS FOR THREE PHASE DUPLEX LIFT STATION (COVER, CONTROL PANEL AND RTU INSTALLATION PLAN DETAILS, CONTROL PANEL AND RTU INSTALLATION PLAN DETAILS)

NO.	DATE	DESCRIPTION	BY
1	02-05-2020	PHASE 3 WATER MAIN RECORD DRAWINGS	JRC/007
2	12-05-2018	REVISED SHEET 49	RTD/89450
3	11-08-2018	REVISED GRADING PER SANITARY CONFLICT	RSB/115155
4	10-16-2018	REVISED PER X	RSB/115155
5	07-13-2018	REVISED PER CITY COMMENTS DATED 7/12	RSB/115155
6	07-06-2018	REVISED PER CITY COMMENTS DATED 6/29 AND COUNTY COMMENTS DATED 7/2	RSB/115155
7	03-05-2018	REVISED PLAT BOUNDARY	RSB/115155
8	02-23-2018	REVISED PER ADDENDUM #3	RSB/115155
9	02-16-2018	REVISED PER ADDENDUM #2	RSB/115155
10	01-02-2018	REVISED PER CITY COMMENTS	RSB/115155

STATUS : REVISIONS

PROJECT PLANNER	PROJECT DEVELOPER	PROJECT CONSULTANT
JIM COLLINS	NEAL COMMUNITIES	STANTEC
PROJECT DESIGNER	PROJECT MANAGER	PROJECT ENGINEER
RUSSELL DICKENS	MELANIE DELEHANTY SMITH, P.E. FLORIDA LICENSE NO. 75447	TRAVIS FLEDDERMAN, P.E. FLORIDA LICENSE NO. 82341

CHECKED BY _____ DATE _____

BASED ON THE RECORD INFORMATION SHOWN HEREON, CERTIFIED BY A FLORIDA
LICENSED SURVEYOR AND MAPPER, I HEREBY CERTIFY THAT THIS PROJECT'S
IMPROVEMENTS HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH
THE APPROVED PLANS.

Digitally signed by
Travis J. Fledderman
Reason: This form
has been
electronically signed
and sealed by Travis
J. Fledderman, P.E.
on 4/10/2020 using a
digital signature
Printed copies of this
document are not
considered signed
and sealed until the
signature must be
verified on any
electronic copy.

TRAVIS J. FLEDDERMAN, P.E.
FLORIDA LICENSE NO. 8234

RESERVED FOR STATUS AND DATE STAMPS

PROJECT NUMBER
215613459

DATE
FEBRUARY 2017

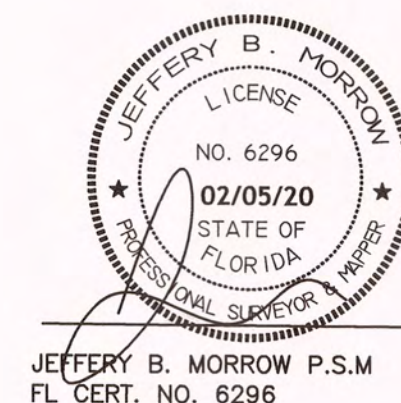
INDEX NUMBER
RECORD-PH3-WM-COVER

POINT BREAK SURVEYING, LLC

CERTIFICATE OF AUTHORIZATION LB 0007384

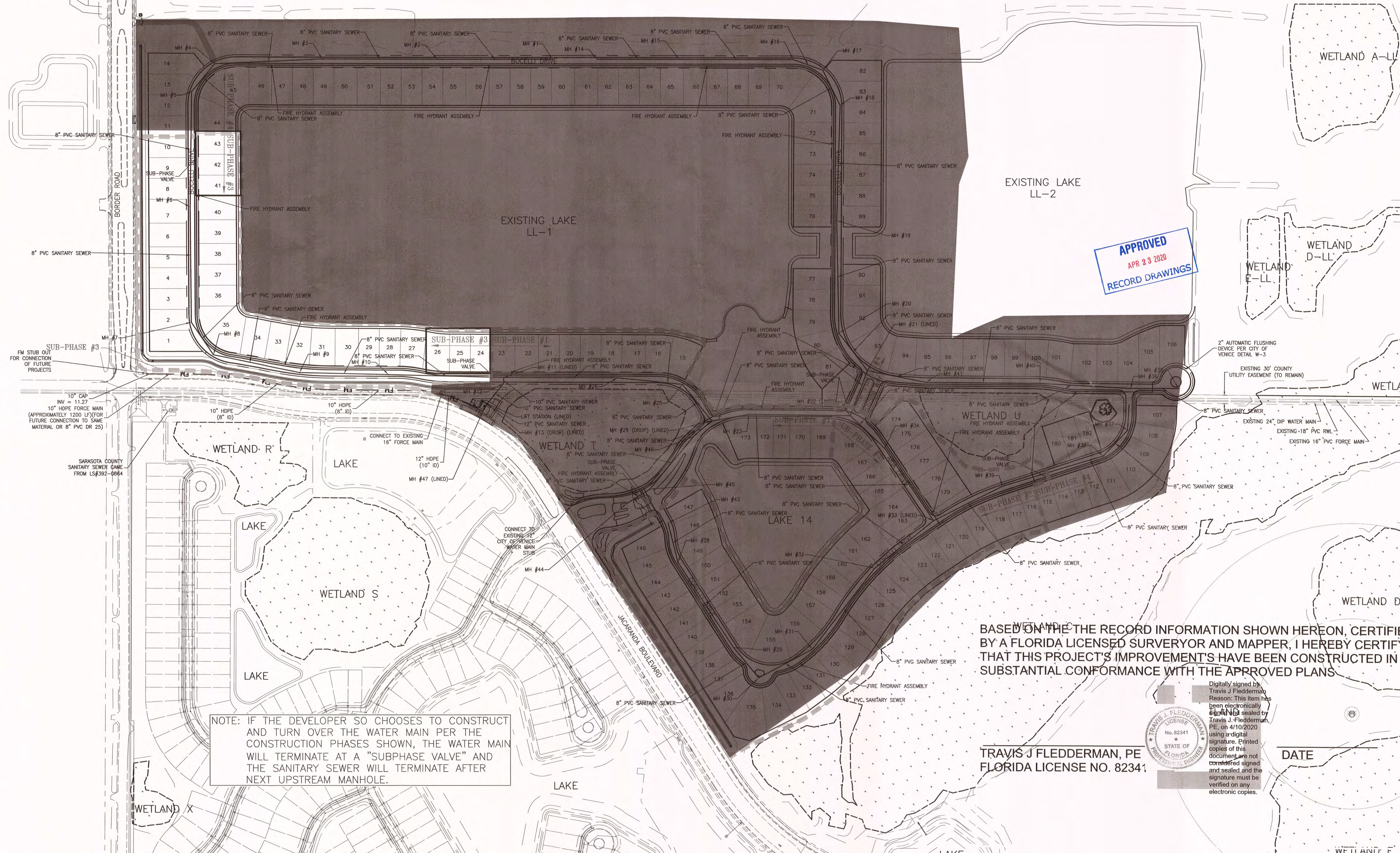
8111 Blakie Ct, Suite E
Sarasota, FL 34240
Office: 941-378-4797
Fax: 941-378-0058

CERTIFICATION:
I HEREBY CERTIFY THAT THE AS-BUILT
MEASUREMENTS SHOWN HEREON ARE TRUE AND
CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF AS SURVEYED IN THE FIELD UNDER MY
DIRECTION TOGETHER WITH AS-BUILT MEASUREMENTS
FROM MARKERS POSITIONED AND INFORMATION
PROVIDED BY CONTRACTOR.
DATE OF LAST FIELD MEASUREMENTS: 01-25-20

JEFFERY B. MORROW P.S.M.
FL CERT. NO. 6296

NOTE: STANDARD 10' DRY UTILITY EASEMENT PROVIDED ON EACH SIDE OF THE 43' PRIVATE R-O-W.

SCALE: 1" = 150'



APPROVED
APR 23 2020
RECORD DRAWINGS

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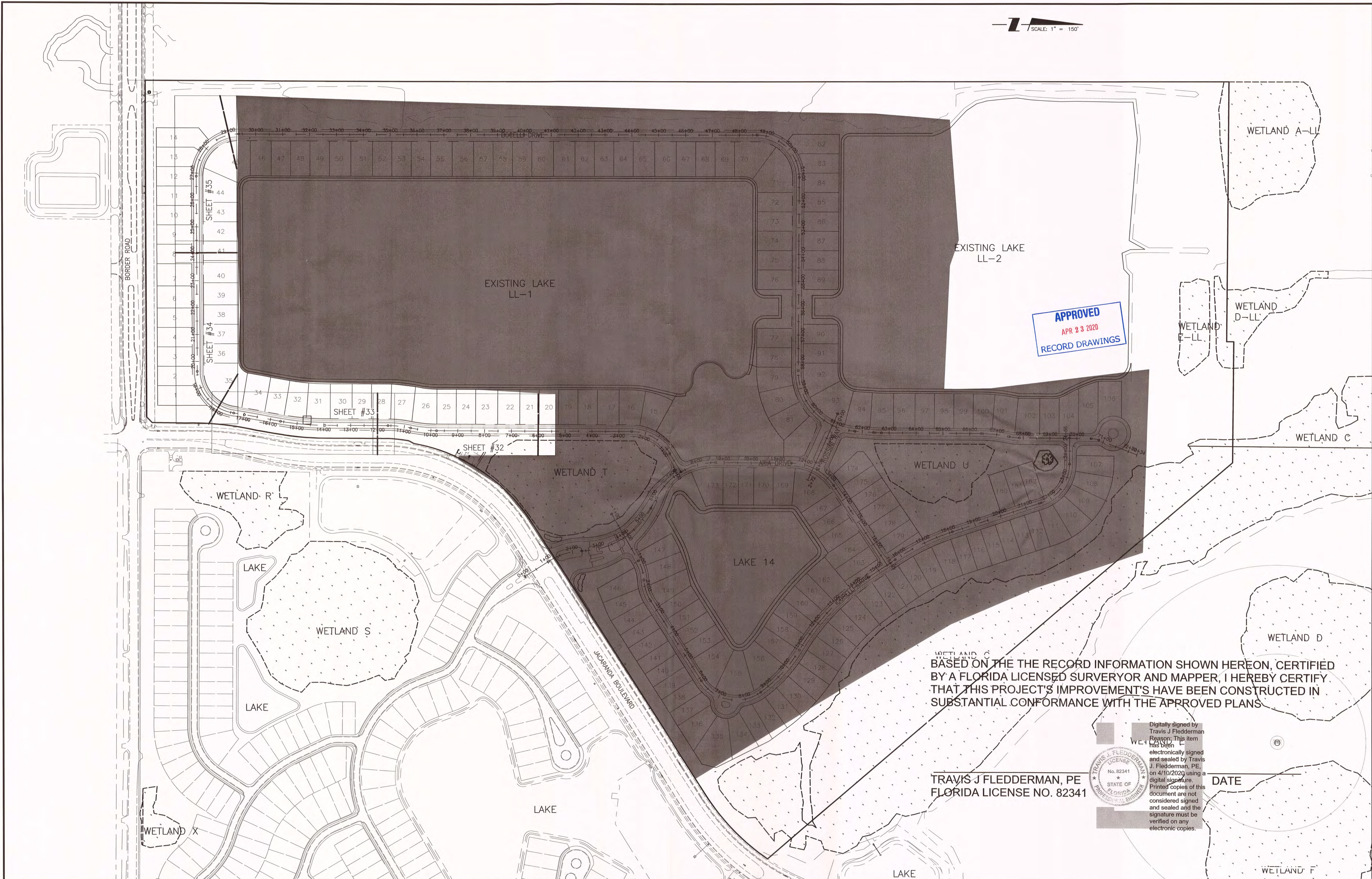
TRAVIS J FLEDDERMAN, PE
FLORIDA LICENSE NO. 82341

Digitally signed by Travis J Fledderman Reason: This item has been electronically signed and sealed by Travis J. Fledderman, PE, on 4/10/2020 using a digital signature. Printed copies of this document are not considered signed and the signature must be verified on any electronic copies.

DATE

RECORD DRAWING				ACTIVITY		INITIALS/EMP. NO.	DATE	RECORD DRAWINGS	CLIENT: NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC	DATE: 2017-08	TITLE: MASTER WATER AND SEWER PLAN	INDEX NUMBER: 215613459-03C-141U				
K	REVISED SHEETS 1,4,8,13,17,22,32,56 FOR CURVE/30' COUNTY PARCEL REMOVAL			07-12-2019	RSB/115155	DESIGNED BY:	2017-08						PROJECT: ARIA - SUBPHASE 3	HORIZONTAL SCALE: 1" = 150'	VERTICAL SCALE:	SHEET NUMBER: 22 OF 61
F	REVISED PER CITY COMMENTS DATED 6/29 AND COUNTY COMMENTS DATED 7/2			07-06-2018	RSB/115155	DRAWN BY:	2017-08									
C	REVISED PER ADDENDUM #2			02-16-2018	RSB/115155	CHECKED BY:										
B	REVISED PER CITY COMMENTS			01-02-2018	RSB/115155	CONTRACT ADMIN. BY:										
ΔREV NO. REVISION				DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:									

RECORD DRAWINGS



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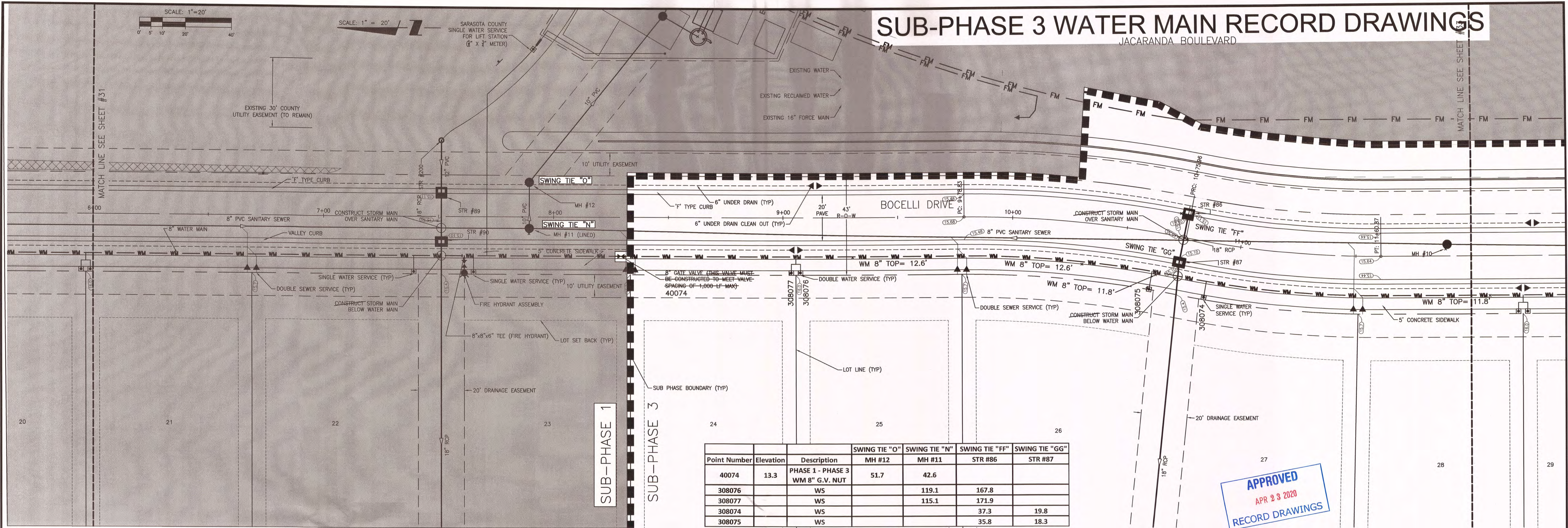
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RECORD DRAWING			ACTIVITY			INITIALS/EMP. NO.			DATE		
F REVISED PER CITY COMMENTS DATED 6/29 AND COUNTY COMMENTS DATED 7/2			DESIGNED BY:						2017-08		
E REVISED PLAT BOUNDARY			DRAWN BY:						2017-08		
B REVISED PER CITY COMMENTS			CHECKED BY:								
			CONTRACT ADMIN. BY:								
			WM APPROVED BY:								
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:						
						CLIENT:			NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC		
						PROJECT:			ARIA - SUBPHASE 3		
						DATE:			2017-08		
						HORIZONTAL SCALE:			1" = 150'		
						VERTICAL SCALE:					
						SEC. TWP. RGE:			35 38S 19E		
						CROSS REFERENCE FILE NO.:					
						PROJECT NUMBER:			215613459		
						INDEX NUMBER:			215613459-03C-151KP		
						SHEET NUMBER:			23 OF 61		

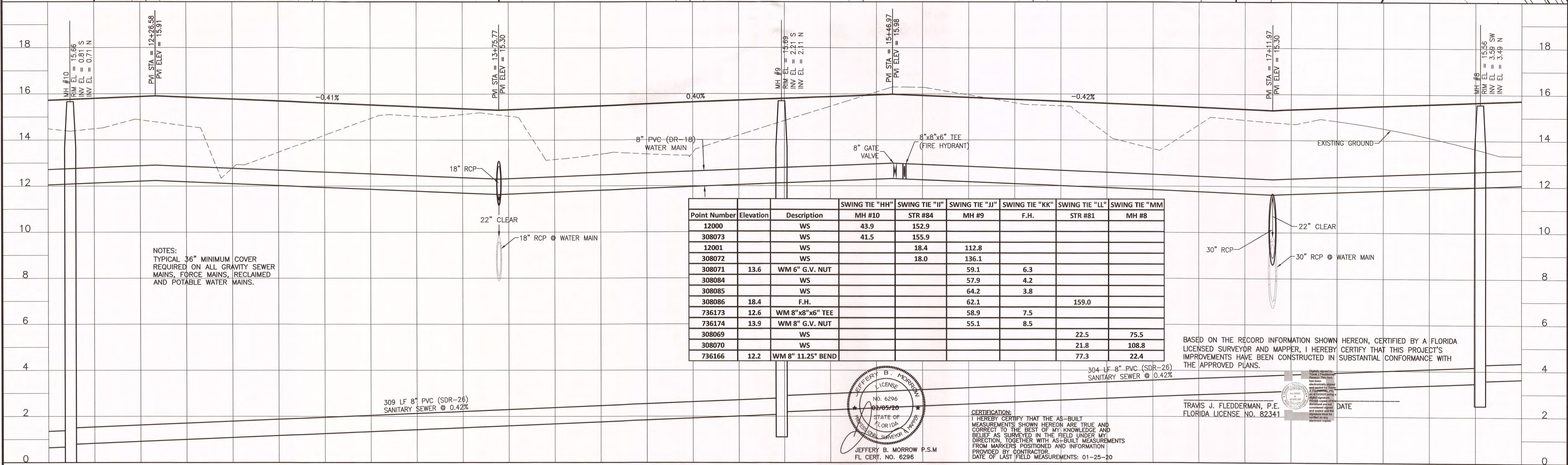
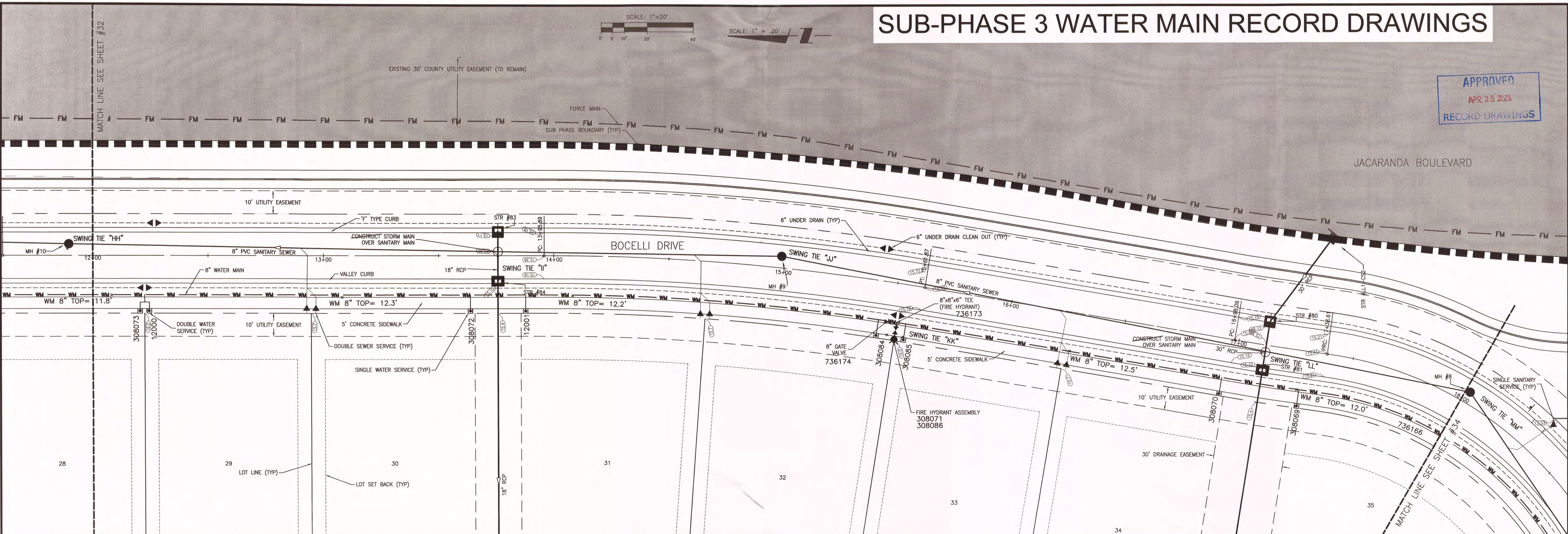
RECORD DRAWINGS

PLAN AND PROFILE KEY PLAN



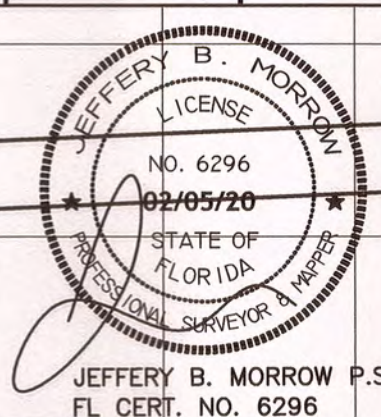
SUB-PHASE 3 WATER MAIN RECORD DRAWINGS

APPROVED
APR 23 2020
RECORD DRAWINGS



NOTES:
TYPICAL 36" MINIMUM COVER
REQUIRED ON ALL GRAVITY SEWER
MAINS, FORCE MAINS, RECLAIMED
AND POTABLE WATER MAINS.

BASED ON THE RECORD INFORMATION SHOWN HEREON, CERTIFIED BY A FLORIDA
LICENSED SURVEYOR AND MAPPER, I HEREBY CERTIFY THAT THIS PROJECT'S
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FROM MARKERS POSITIONED AND INFORMATION
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DATE OF LAST FIELD MEASUREMENTS: 01-25-20

TRAVIS J. FLEDDERMAN, P.E.
FLORIDA LICENSE NO. 82341

DATE

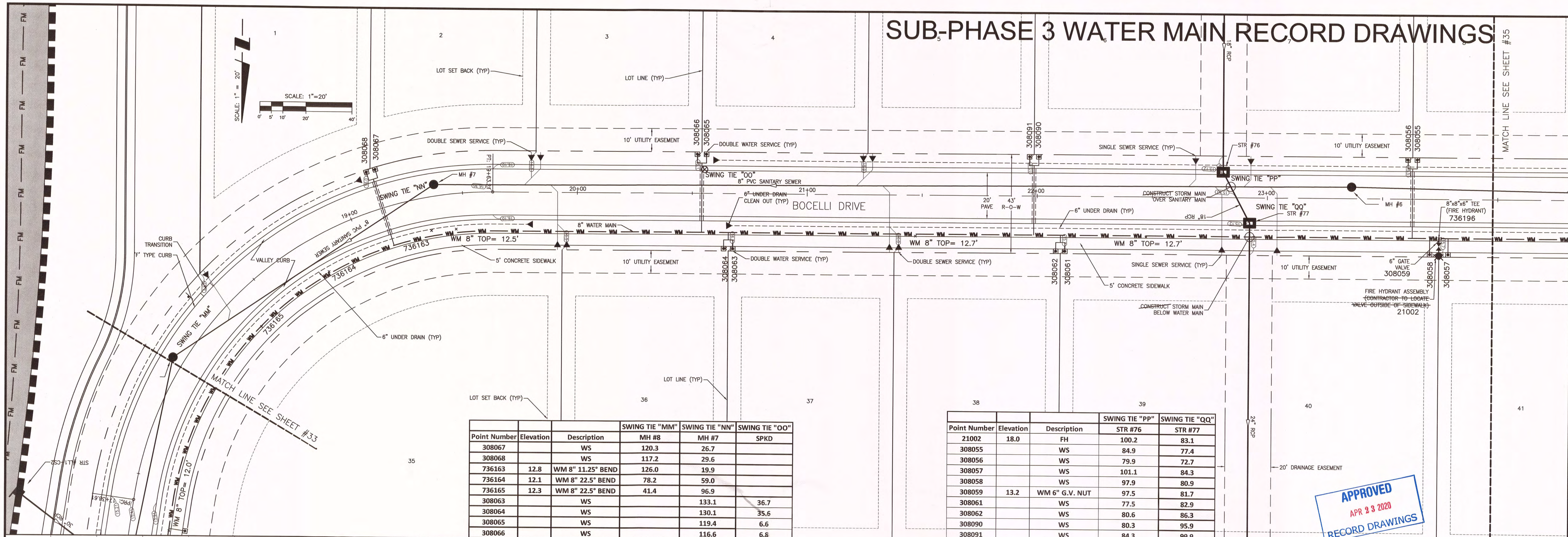
12+00				13+00				14+00				15+00				16+00				17+00				18+00			
C				PHASE 3 WATER MAIN RECORD DRAWINGS				02-05-2020				JRC/007				01-02-2018				RSB/115155				WM APPROVED BY:			
B				REVISED PER CITY COMMENTS				DATE				DRAWN BY / EMP. NO.				CHECKED BY / EMP. NO.				DATE				DATE			
ΔREV NO.				REVISION				DATE				DRAWN BY / EMP. NO.				CHECKED BY / EMP. NO.				DATE				DATE			

ACTIVITY		INITIALS/EMP. NO.		DATE	
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CONTRACT ADMIN. BY:					
WM APPROVED BY:					

POINT BREAK SURVEYING, LLC		CERTIFICATE OF AUTHORIZATION LB 0007384		8111 Blaikie Court, Suite E	
				Sarasota, FL 34240	
				Phone: (941) 378-4797	
				Fax: (941) 378-0058	

CLIENT:		NEAL COMMUNITIES OF		DATE:	
		SOUTHWEST FLORIDA, LLC		2017-08	
PROJECT:		ARIA		HORIZONTAL SCALE:	
				1" = 20'	
				VERTICAL SCALE:	
				1" = 2'	
				SEC. TWP. RGE.	
				35 38S 19E	
				CROSS REFERENCE FILE NO.:	
				PROJECT NUMBER:	
				215613459	
				INDEX NUMBER:	
				RECORD-PH3-WATER	
				SHEET NUMBER:	
				33 OF 61	

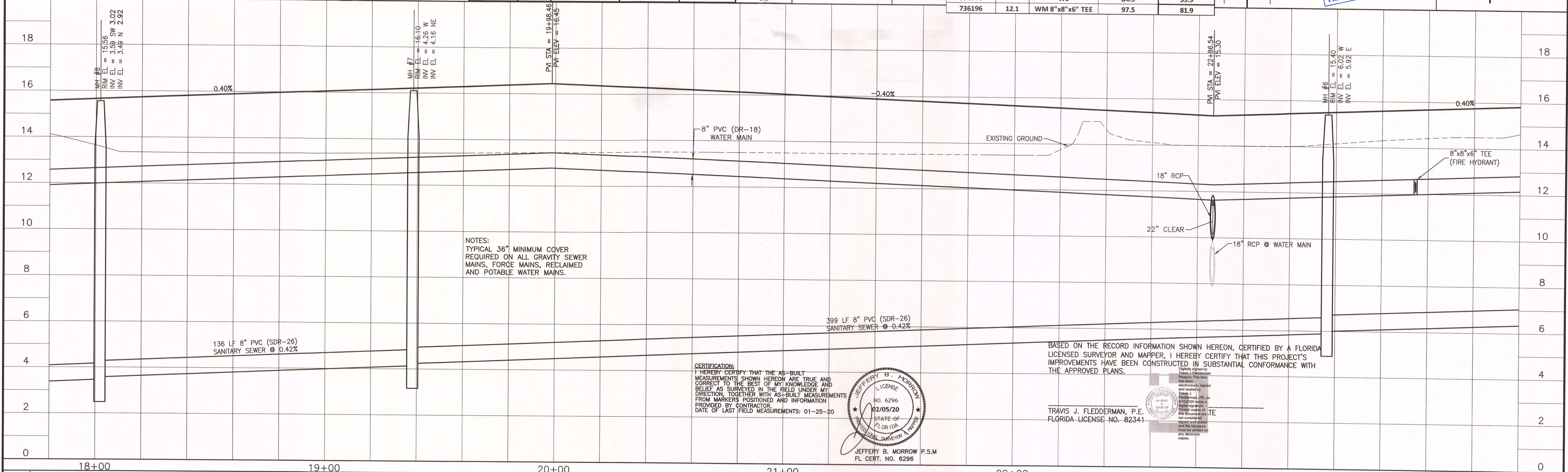
SUB-PHASE 3 WATER MAIN RECORD DRAWINGS



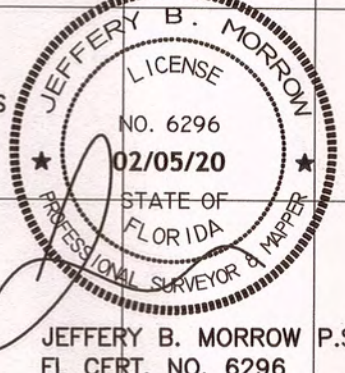
Point Number	Elevation	Description	SWING TIE "MM"	SWING TIE "NN"	SWING TIE "OO"
308067		WS	MH #8	MH #7	SPKD
308068		WS	120.3	26.7	
736163	12.8	WM 8" 11.25° BEND	117.2	29.6	
736164	12.1	WM 8" 22.5° BEND	126.0	19.9	
736165	12.3	WM 8" 22.5° BEND	78.2	59.0	
308063		WS	41.4	96.9	
308064		WS		133.1	36.7
308065		WS		130.1	35.6
308066		WS		119.4	6.6
				116.6	6.8

Point Number	Elevation	Description	SWING TIE "PP"	SWING TIE "QQ"
21002	18.0	FH	STR #76	STR #77
308055		WS	100.2	83.1
308056		WS	84.9	77.4
308057		WS	79.9	72.7
308058		WS	101.1	84.3
308059	13.2	WM 6" G.V. NUT	97.9	80.9
308061		WS	97.5	81.7
308062		WS	77.5	82.9
308090		WS	80.6	86.3
308091		WS	80.3	95.9
736196	12.1	WM 8"x8"x6" TEE	84.3	99.9
			97.5	81.9

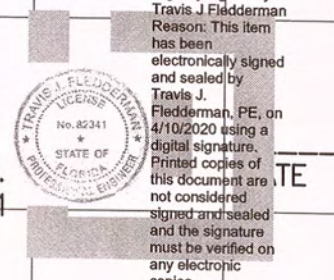
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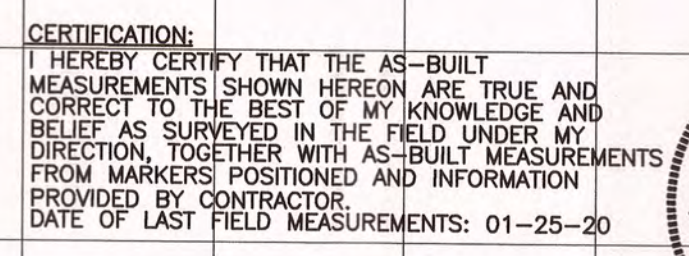
ACTIVITY	INITIALS/EMP. NO.	DATE	CLIENT	PROJECT	TITLE	INDEX NUMBER
DESIGNED BY:		2017-08	NEAL COMMUNITIES OF	ARIA	RECORD PLAN AND PROFILE	RECORD-PH3-WATER
DRAWN BY:		2017-08	SOUTHWEST FLORIDA, LLC		BOCELLI DRIVE	
CHECKED BY:						
CONTRACT ADMIN. BY:						
WM APPROVED BY:						

8111 Blaikie Court, Suite E
Sarasota, FL 34240
Phone: (941) 378-4797
Fax: (941) 378-0058

DATE: 2017-08
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'
SEC: TWP: RGE: 35 38S 19E
CROSS REFERENCE FILE NO.:
PROJECT NUMBER: 215613459
SHEET NUMBER: 34 OF 61



			SWING TIE "RR"	SWING TIE "SS"	SWING TIE "TT"
Point Number	Elevation	Description	F.H.	SPKD	MH #5
308051		WS	146.1	71.1	
308052		WS	142.2	74.4	
308053		WS	141.3	73.8	
308054		WS	138.3	76.8	
308081	14.5	PHASE 3 - PHASE 4 WM 8" G.V. NUT		30.6	139.8



TRAVIS J. FLEDDERMAN, P.E.
FLORIDA LICENSE NO. 82341

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JEFFERY B. MORROW
LICENSE
NO. 6296
02/05/20
STATE OF
FLORIDA
PROFESSIONAL SURVEYOR & MAPS
JEFFERY B. MORROW P.S.M.
FL CERT. NO. 6296

CERTIFICATE OF AUTHORIZATION LB 0007384

8111 Blaikie Court, Suite E
Sarasota, FL 34240
Phone: (941) 378-4797
Fax: (941) 378-0058

CLIENT:	NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC
PROJECT:	ARIA

DATE: 2017-08		TITLE: RECORD PLAN AND PROFILE BOCELLI DRIVE		INDEX NUMBER: RECORD-PH3-WATER	
HORIZONTAL SCALE: 1" = 20'		PROJECT NUMBER: 215613459		SHEET NUMBER: 35 OF 61	
VERTICAL SCALE: 1" = 2'					
SEC: TWP: RGE: 35 38S 19E		CROSS REFERENCE FILE NO.:			

								ACTIVITY	INITIALS/EMP. NO.	DATE
								DESIGNED BY:		2017-08
C	PHASE 3 WATER MAIN RECORD DRAWINGS			02-05-2020	JRC/007			DRAWN BY:		2017-08
B	REVISED PER CITY COMMENTS			01-02-2018	RSB/115155			CHECKED BY:		
								CONTRACT ADMIN. BY:		
Δ REV. NO.	REVISION			DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.		WM. APPROVED BY:		

WATER DISTRIBUTION GENERAL:

- THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE PROJECT SPECIFICATIONS. IT IS ASSUMED THE IRRIGATION MAINS ARE OR WILL CONVEY REUSE WATERS.
1. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF UTILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE CITY OF VENICE UTILITIES DEPARTMENT COUNTY, UTILITY COMPANIES AND THE ENGINEER 48 HOURS PRIOR TO ANY WORK AT SITE. WATER MAIN TIE-INS REQUIRING WATER SERVICE TO BE SHUT OFF SHALL BE MADE WHEN REQUIRED BY CITY OF VENICE UTILITIES
 3. WATER MAIN INSTALLATION SHALL BE CONSTRUCTED WITH A MINIMUM OF 3 FEET OF COVER BELOW PROPOSED GRADE OR TO THE ELEVATIONS AND DEPTHS AS INDICATED ON THE PLANS WITHIN 0.25 FT. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
 4. ALL DISTURBED AREAS IN EXISTING LAWNS SHALL BE REPLACED WITH SOD EQUAL TO OR BETTER THAN EXISTING AND OF THE SAME TYPE. SLOPE SLOPES AND BOTTOM SHALL BE SODDED TO ELIMINATE EROSION. RESTORATION DUE TO EROSION OCCURRING PRIOR TO GRASS ROOTING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL WATER AS NECESSARY ALL SODDED AREAS UNTIL GRASS ROOTS.
 5. DUE TO THE PROXIMITY OF EXISTING DRAINAGE STRUCTURES, ROADWAY PAVEMENT, GOLF CART PATHS, CURBS, CULVERTS, RESIDENTIAL STRUCTURES, MAIL BOXES, ETC., THE CONTRACTOR SHALL USE EXCAVATING METHODS WHICH SHALL PREVENT ANY DAMAGE TO SAME UNLESS REMOVAL IS REQUIRED. THE COST OF ANY DAMAGE AND THE REPLACEMENT OF ALL PRIVATE PROPERTY DAMAGED BY THE CONTRACTORS OPERATIONS SHALL BE BORNE BY THE CONTRACTOR.
 6. ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
 7. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR. COLOR CODED PLASTIC COATED METAL TAPE 3" WIDE WITH THE WORD "WATER MAIN" SHALL BE PLACED 18 INCHES BELOW FINISHED GROUND AND ABOVE D.I.P. AND PVC WATER MAIN. ALSO ATTACH A COLOR- CODED CONTINUOUS NUMBER 12 INSULATED WIRE ON TOP OF THE PIPE AND AS INDICATED ON THE DETAILS FOR VALVES, HYDRANTS, BLOWOFFS, ETC. THE COST FOR COLOR TAPE AND COPPER TRACING WIRE SHALL BE INCLUDED IN THE WATER MAIN UNIT PRICES.
 8. THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE WATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
 9. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF CITY OF VENICE ORDINANCE #99-058 AND #99-063 (UNIFORM WATER, WASTEWATER, & REUSE SYSTEM CODE), LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THAT ORDINANCE WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
 10. WATER TO GO OVER STORM AND SANITARY UNLESS SPECIFICALLY NOTED IN PLANS. WATER SERVICES TO MAINTAIN 1' CLEAR OF ALL UTILITIES (SEE DETAIL W-8 FOR SERVICE COVER REQUIREMENT).
 11. RESTORATION OF ALL EXISTING ROADWAYS TO CITY OF VENICE STANDARDS AND THE REPLACEMENT OF EXISTING CULVERTS AND DRIVEWAYS ETC., SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE WATER MAIN ITEMS.
 12. CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED UNTIL ALL NEW WATER LINES HAVE SUCCESSFULLY COMPLETED ALL PRESSURE AND BACTERIOLOGICAL TESTING AND CLEARANCE HAS BEEN GRANTED BY TOWH IF TURNED OVER TO THE CITY, OR COORDINATED WITH THE WOODS DEVELOPMENT IF PRIOR TO CITY TURNOVER.
 13. THE CONTRACTOR SHALL NOTIFY CITY OF VENICE UTILITIES DEPARTMENT OR THE PRIVATE UTILITY REGARDING THE DISPOSITION OF ANY FITTINGS, ETC., THAT ARE TO BE REMOVED.
 14. THE CONTRACTOR SHALL PROVIDE AND UTILIZE A METERED JUMPER ASSEMBLY BETWEEN THE EXISTING POTABLE WATER SOURCE PIPING AND THE NEW WATER MAIN IN ORDER TO PROVIDE BACKFLOW PREVENTION WHILE FILLING AND FLUSHING THE NEW WATER MAIN. FINAL TIE-IN SHALL BE COMPLETED ONLY AFTER THE NEW SYSTEM HAS BEEN FLUSHED CLEAN, PRESSURE TESTED, DISINFECTED, BACTERIOLOGICALLY CLEARED, CERTIFIED COMPLETE BY THE ENGINEER, AND A RELEASE IS OBTAINED FROM THE HEALTH DEPARTMENT. ENGINEER'S REPRESENTATIVE TO BE PRESENT AT FINAL TIE-IN. THE LENGTH OF PIPE REQUIRED FOR FINAL TIE-IN SHALL BE LIMITED TO LESS THAN 20 FEET. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH HEALTH DEPARTMENT AND LOCAL GOVERNMENT RULES AND REGULATIONS.
 15. ALL CONSTRUCTION SHALL ADHERE TO CITY OF VENICE STANDARD DETAILS

SERVICE DETAILS:

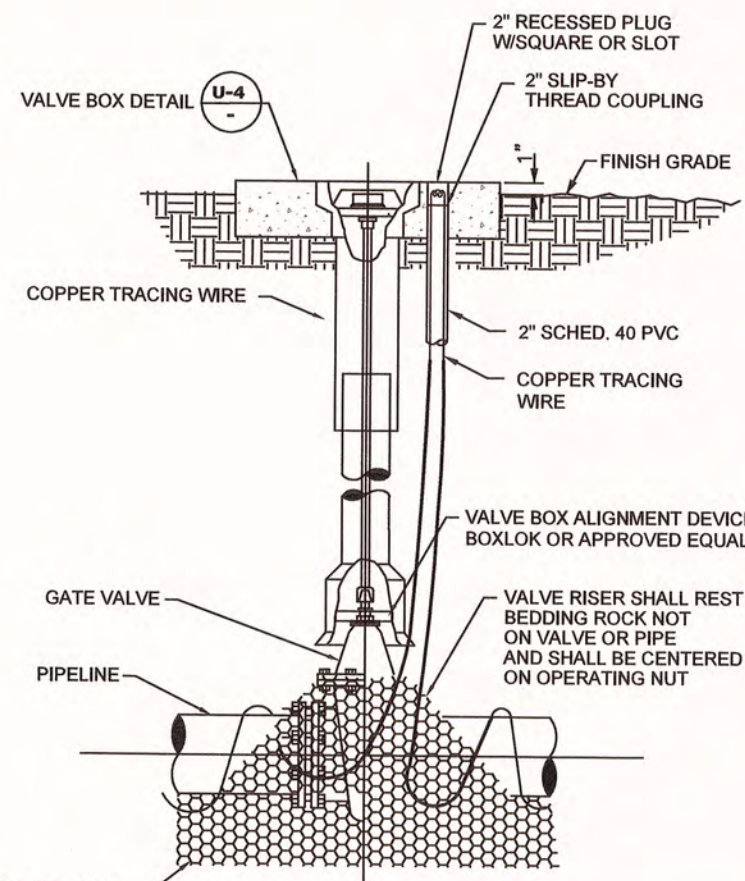
1. ALL METER BOXES HAVE BEEN CALCULATED FOR LOCATION AND SHALL BE STAKED ACCORDINGLY IN THE FIELD. BOXES FOUND NOT CONSTRUCTED TO THE PROPOSED LOCATION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE. THOSE BOXES SHOWN IN CLUSTERS SHALL BE PLACED IN A NEAT ROW AND AGAINST EACH OTHER.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.
3. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR WATER LINES. IF EXTENSIONS ARE REQUIRED, THE COST SHALL BE INCLUDED IN THE PRICE BID.
4. AIR RELEASE TAPS SHALL BE INSTALLED IN WATER MAINS AT HIGH POINTS WHERE REQUIRED. THESE LOCATIONS SHALL BE LOCATED ON THE RECORD DRAWINGS.
5. 2 INCHES OR SMALLER DIAMETER SERVICES SHALL INCLUDE THE SERVICE SADDLE, CORPORATION STOP, VARIABLE LENGTH P.E. 3406 - A.S.T.M. 2737 COPPER TUBE SIZE SERVICE PIPE, CURB STOP AND METER BOX OF THE SIZE FOR METER INDICATED.
6. VERTICAL CLEARANCE BETWEEN WATER AND STORM/ REUSE/ WASTEWATER LINES SHALL BE 18 INCHES MINIMUM.
7. A "W" OR "V" SHALL BE STAMPED INTO CURB WHERE WATER SERVICE OR WATER VALVE IS LOCATED IN ACCORDANCE WITH COUNTY CODE. A MEASUREMENT FROM EDGE OF CURB TAKEN BY THE CONTRACTOR, SHALL BE SHOWN ON THE RECORD PLANS FOR REFERENCE IN LOCATING THE SERVICE OR THE VALVE.

AS-BUILTS:

1. THE CONTRACTOR SHALL LOCATE VALVES, SERVICES, HYDRANTS, AIR RELEASE VALVES, ETC. BY USING A TWO (2) POINT SWING MEASUREMENT FROM PERMANENT PHYSICAL FEATURES THAT CAN READILY BE FOUND ON THE DRAWING AND IN THE FIELD. THESE MEASUREMENTS SHALL BE SHOWN ON THE "AS-BUILT" DRAWING BY THE CONTRACTOR AND PRESENTED TO THE ENGINEER AT EACH PARTIAL PAYMENT APPLICATION FOR PERMANENT RECORDING.
2. THE CONTRACTOR SHALL FURNISH "AS-BUILT" TOP OF PIPE ELEVATIONS OF ALL WATER MAINS EVERY 100', ALL FITTINGS AND ALL CHANGES IN GRADE.
3. THE RECORD DRAWINGS, IF PREPARED BY THE CONTRACTOR OR CONTRACTORS SURVEYOR, DRAFT COPIES OF THE RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINALIZING THE DRAWINGS. ONCE ACCEPTABLE TO THE ENGINEER, THE CONTRACTOR/SURVEYOR WILL PROVIDE 9 SETS OF SIGNED AND SEALED FINALIZED DRAWINGS WITHIN 7 DAYS OF BACTERIOLOGICAL CLEARANCE TESTING FOR SUBMITTAL TO THE COUNTY. ONCE THE DRAWINGS ARE APPROVED BY THE COUNTY, CONTRACTOR/SURVEYOR IS RESPONSIBLE TO PROVIDE THE ENGINEER OF RECORD ONE SET OF MYLARS AND A DIGITAL COPY OF RECORD DRAWINGS IN ACAD 14 FORMAT, RECORD INFORMATION SHALL BE ON UNIQUE LAYER(S), USING TEXT SHAPE FILE THAT COMES WITH STANDARD ACAD

JOINT RESTRAINING:

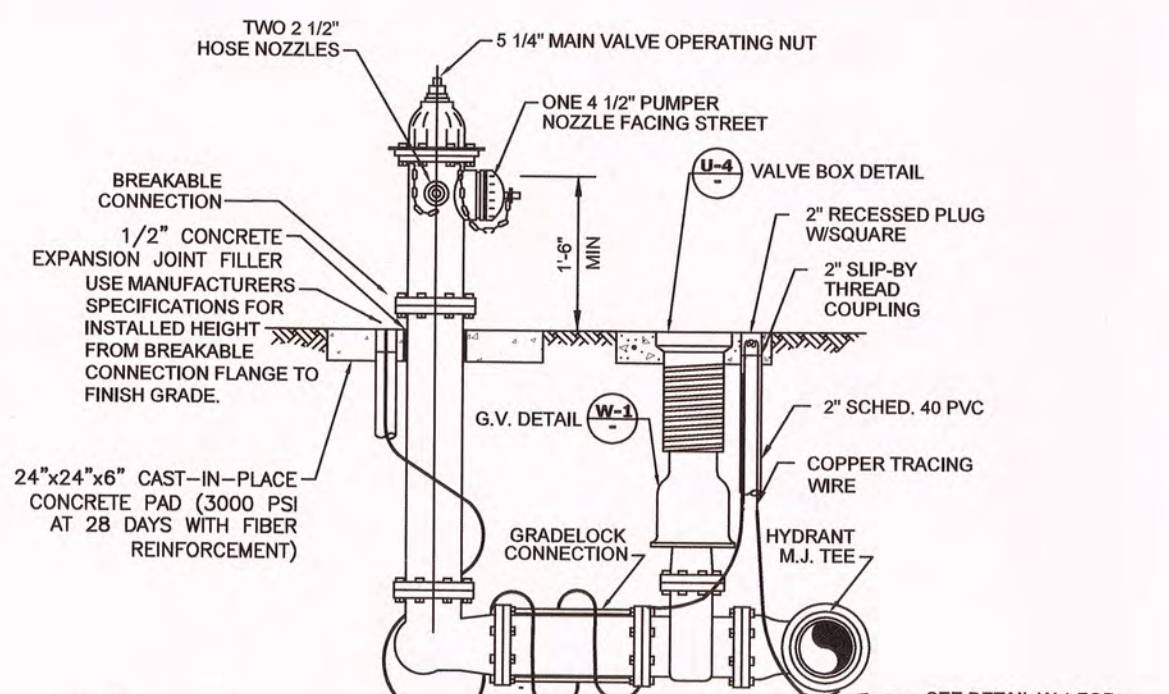
1. THE CONTRACTOR SHALL PROVIDE ALL JOINT RESTRAINING AS REQUIRED. SEE RESTRAINED JOINT TABLES.
2. DESIGN CRITERIA: 150 P.S.I. TEST PRESSURE TIMES 2 SAFETY FACTOR (300 P.S.I.) FOR WATER HAMMER WITH ASSUMED SOIL BEARING CAPACITY OF 1000 LBS. PER SQUARE FOOT.
3. COMPLETELY COAT EXPOSED TIE-BARS OR OTHER UNCOATED STEEL AFTER INSTALLATION WITH TWO COATS OF PORTER TARTER MAXI-BUILD #7080 AT 8 MILS D.F.T. EACH (COAT) USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



1. GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER, AMERICAN VALVE, OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C250, AND BE NSF61 CERTIFIED.
2. FOR VALVES LARGER THAN 12" IN USE BUTTERFLY STYLE VALVE.
3. VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
4. COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, PURPLE = REUSE)
5. FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
6. ALL BOLTS AND HARDWARE SHALL BE 316 SS (WHEN AVAILABLE).

GATE VALVE DETAIL
(WATER AND REUSE ONLY)
N.T.S.

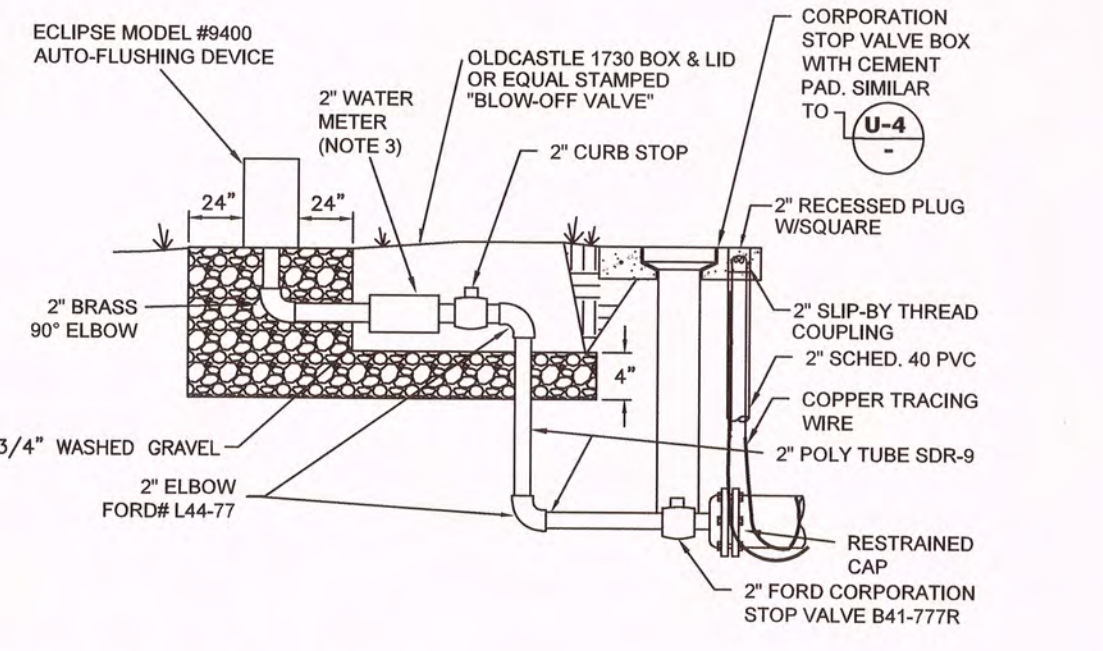
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	GATE VALVE	SHEET NO. W-1



- NOTES:
1. POTABLE WATER FIRE HYDRANTS SHALL BE PAINTED "SAFETY YELLOW".
 2. REUSE FIRE HYDRANTS SHALL BE PAINTED PANTONE PURPLE 822C AND TAGGED WITH A PERMANENT LABEL "RECLAIMED WATER-DO NOT DRINK".
 3. HYDRANT SHALL BE MUELLER SUPER CENTURION MODEL A423, AMERICAN 884B4 WITH BREAK-AWAY FEATURE. ALL BOLTS SHALL BE SS (BOWNET, SAFETY FLANGE, SHOE).
 4. RESTRAINED JOINTS SHALL BE USED BETWEEN TEE AND HYDRANT.
 5. HYDRANTS SHALL HAVE "OUT OF SERVICE" TAGS AND BE BAGGED UNTIL MAINS ARE ACCEPTED BY CITY.
 6. ALL WEEP HOLES SHALL BE PLUGGED.
 7. HYDRANT LOCATED AT LEAST 3' OR MORE FROM ANY STORM WATER PIPE OR DITCH AND AT LEAST 6' OR MORE FROM ANY SANITARY SEWER STRUCTURE.
 8. FOR CLEARANCE ISSUES, PLEASE REFER TO CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS.
 9. COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES.
 10. ASSEMBLY SHALL BE BORED IN 4" OF 57 STONE OR CRUSHED SHELL AND INSTALLED AT PROPER BURIAL DEPTH.
 11. FIRE HYDRANT ASSEMBLY INCLUDES GATE VALVE TO BE LOCATED AS CLOSE TO WATER MAIN AS POSSIBLE.
 12. GRADELOCK CONNECTION TO BE USED BETWEEN VALVE AND HYDRANT. FUSION BONDED EPOXY, ROTATE TO FINAL GRADE.

FIRE HYDRANT ASSEMBLY DETAIL
N.T.S.

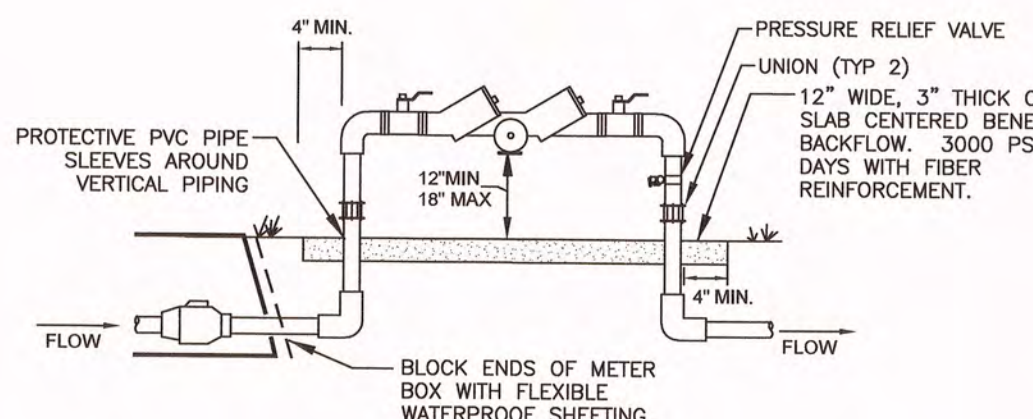
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	FIRE HYDRANT ASSEMBLY	SHEET NO. W-2



1. FOR ALL DEAD-END WATER MAINS.
2. AUTOMATIC FLUSHING DEVICE SHALL BE AN ECLIPSE MODEL #9400.
3. CONTRACTOR SHALL PROVIDE 2" BADGER MODEL-170 R.R. METER, HRE REGISTER, ORION MESE ENDPOINT.
4. COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED.

AUTOMATIC FLUSHING DEVICE DETAIL
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	AUTOMATIC FLUSHING DEVICE	SHEET NO. W-3

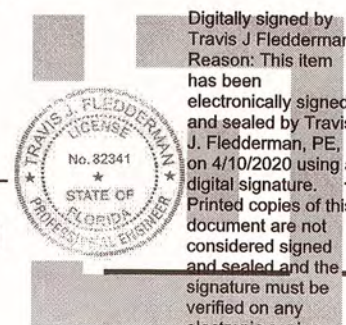


1. BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM.
2. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND/OR ASSE 1013.
3. ALL ABOVE GROUND PIPING SHALL BE RIGID COPPER.
4. THE WATER METER AND BACKFLOW PREVENTER SHALL BE THE SAME SIZE.
5. INSTALLED IMMEDIATELY AFTER THE UTILITY WATER METER UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY OF VENICE UTILITIES DIRECTOR.
6. NO BRANCH OR TEE CONNECTIONS SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.
7. ALL METER BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.
8. SHEETING SHALL BE A PVC TYPE MATERIAL WITH A MINIMUM OF 40 MIL THICKNESS.
9. PROTECTIVE PIPE SLEEVES MAY BE PVC PIPE ONE SIZE LARGER THAN RISER OR OTHER CITY APPROVED MATERIAL.
10. UNIONS ARE REQUIRED ON THE RISERS.
11. PRESSURE RELIEF VALVE SHALL BE INSTALLED PER PLUMBING CODE.
12. LINE DOWNSTREAM OF METER AND PRIOR TO BACKFLOW SHALL BE POLYETHYLENE.

BACKFLOW PREVENTION ASSEMBLY
(RESIDENTIAL, NOT MASTER METERED)
N.T.S.

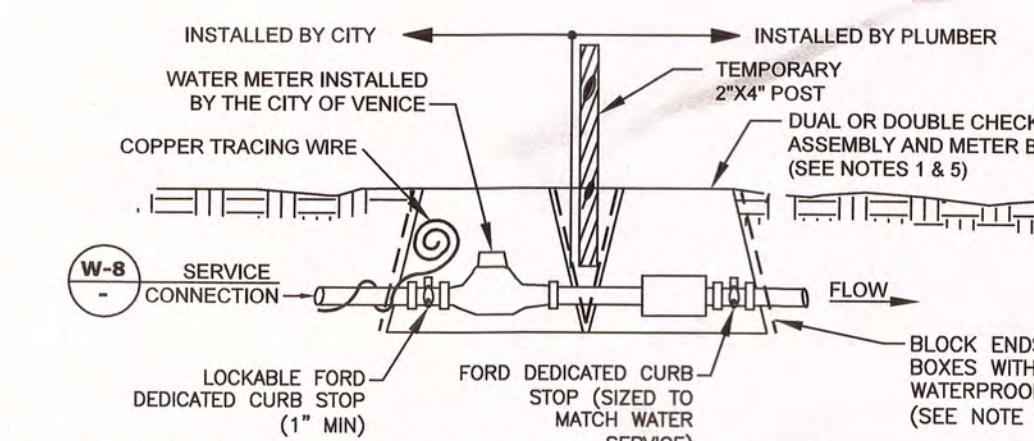
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	BACKFLOW ASSEMBLY (NO MASTER METER)	SHEET NO. W-5

BASED ON THE THE RECORD INFORMATION SHOWN HEREON, CERTIFIED BY A FLORIDA LICENSED SURVEYOR AND MAPPER, I HEREBY CERTIFY THAT THIS PROJECT'S IMPROVEMENT'S HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS



TRAVIS J FLEDDERMAN, PE
FLORIDA LICENSE NO. 82341

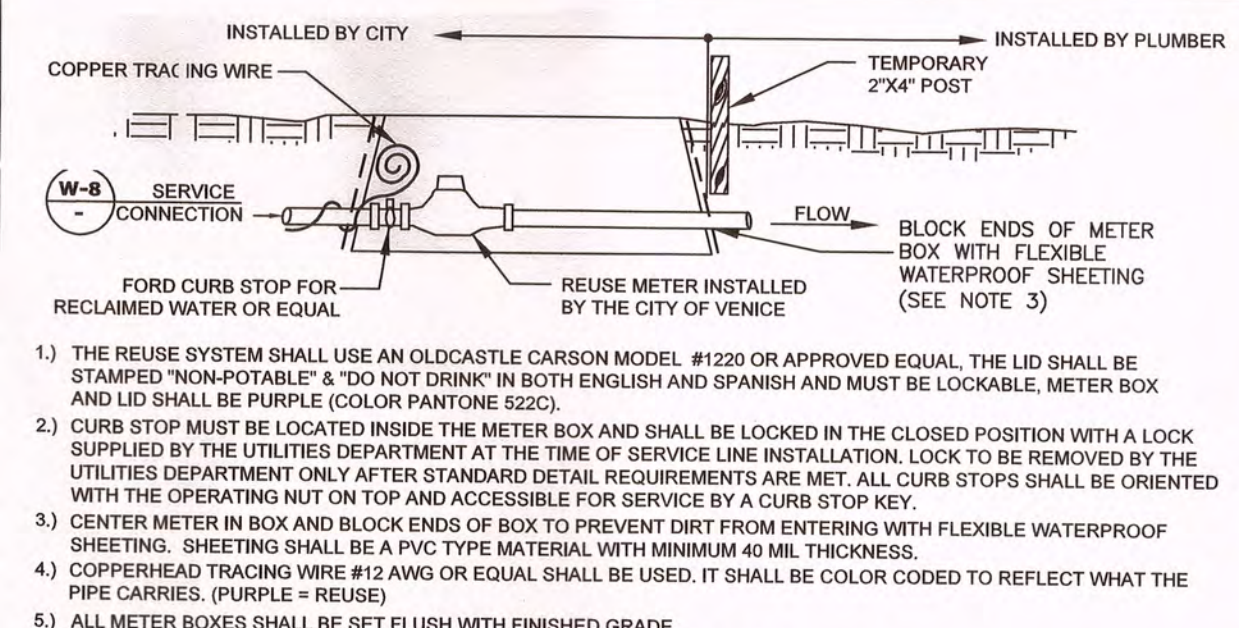
DATE



1. THE POTABLE WATER SYSTEM SHALL USE AN OLDCASTLE CARSON MODEL #1220 BLACK PLASTIC METER BOX WITH METAL READER AND BLACK SOLID RODS OR APPROVED EQUAL FOR BOTH METER AND CHECK VALVE.
2. CENTER METER IN BOX AND BLOCK ENDS OF BOX TO PREVENT DIRT FROM ENTERING WITH FLEXIBLE WATERPROOF SHEETING. SHEETING SHALL BE A PVC TYPE MATERIAL WITH MINIMUM 40 MIL THICKNESS.
3. COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED AND COLOR CODED TO REFLECT WHAT THE PIPE CARRIES (BLUE = WATER).
4. LOCKING CURB STOP MUST BE LOCATED IN BOX AND SHALL BE LOCKED IN THE CLOSED POSITION WITH A LOCK SUPPLIED BY THE UTILITIES DEPARTMENT AT THE TIME OF SERVICE LINE INSTALLATION. LOCK TO BE REMOVED BY THE UTILITIES DEPARTMENT ONLY AFTER STANDARD DETAIL REQUIREMENTS ARE MET. DEDICATED FIRE SERVICE CURB STOPS SHALL BE LOCKED IN THE OPEN POSITION BY THE UTILITIES DEPARTMENT AFTER STANDARD DETAIL REQUIREMENTS ARE MET. ALL CURB STOPS SHALL BE ORIENTED WITH THE OPERATING NUT ON TOP AND ACCESSIBLE FOR SERVICE BY A CURB STOP KEY.
5. DUAL OR DOUBLE CHECK ASSEMBLY, WHEN REQUIRED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM, SHALL BE INSTALLED BY A PLUMBER IN A SEPARATE BOX IMMEDIATELY AFTER THE WATER METER BOX. TEST PORTS SHALL BE PLUGGED WITH NON-METALLIC OR PLASTIC PLUGS.
6. RESIDENTIAL FIRE SERVICE SPRINKLERS INCORPORATED INTO DOMESTIC RESIDENTIAL PLUMBING SHALL BE SERVICED BY AN ELECTRONIC WATER METER MEETING NFPA STANDARDS FOR FLOW AND PRESSURE LOSS.
7. THE ENGINEER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITIES DEPARTMENT.
8. ALL METER BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.
9. BELOW GROUND PIPING BETWEEN WATER METER AND DUAL OR DOUBLE CHECK ASSEMBLY SHALL BE PE WATER SERVICE POLYETHYLENE.

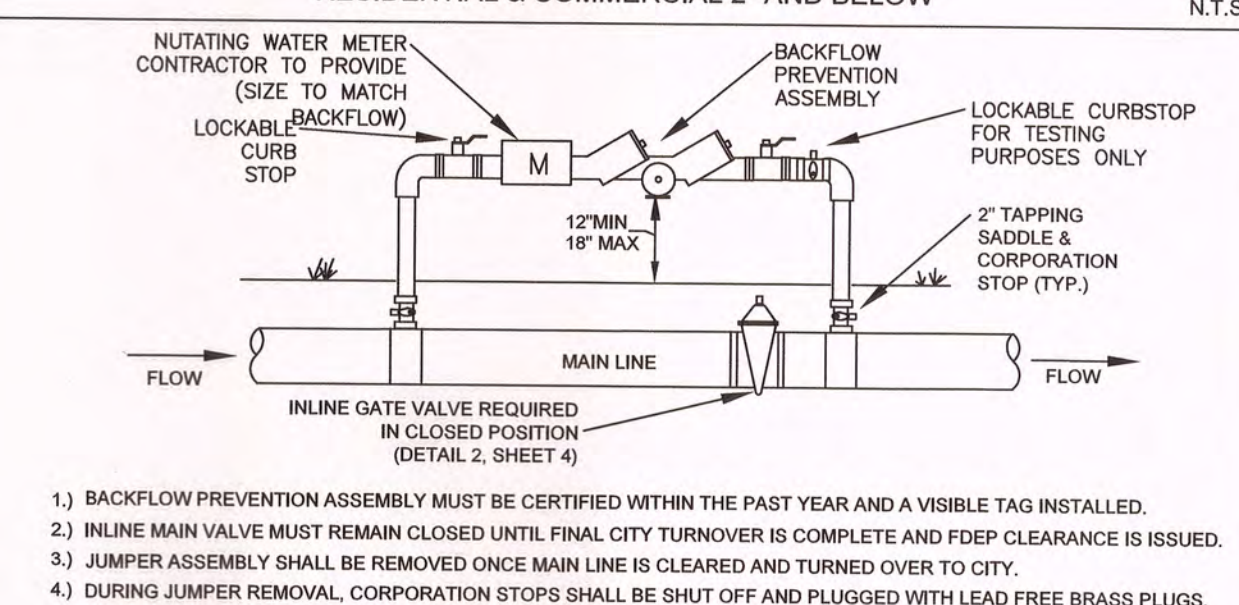
RESIDENTIAL WATER & FIRE METER
(RESIDENTIAL USE ONLY)
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	RESIDENTIAL WATER & FIRE METER	SHEET NO. W-6



1. THE REUSE SYSTEM SHALL USE AN OLDCASTLE CARSON MODEL #1220 OR APPROVED EQUAL. THE LID SHALL BE STAMPED "NON-POTABLE" & "DO NOT DRINK" IN BOTH ENGLISH AND SPANISH AND MUST BE LOCKABLE, METER BOX AND LID SHALL BE PURPLE (COLOR PANTONE 822C).
2. CURB STOP MUST BE LOCATED INSIDE THE METER BOX AND SHALL BE LOCKED IN THE CLOSED POSITION WITH A LOCK SUPPLIED BY THE UTILITIES DEPARTMENT AT THE TIME OF SERVICE LINE INSTALLATION. LOCK TO BE REMOVED BY THE UTILITIES DEPARTMENT ONLY AFTER STANDARD DETAIL REQUIREMENTS ARE MET. ALL CURB STOPS SHALL BE ORIENTED WITH THE OPERATING NUT ON TOP AND ACCESSIBLE FOR SERVICE BY A CURB STOP KEY.
3. CENTER METER IN BOX AND BLOCK ENDS OF BOX TO PREVENT DIRT FROM ENTERING WITH FLEXIBLE WATERPROOF SHEETING. SHEETING SHALL BE A PVC TYPE MATERIAL WITH MINIMUM 40 MIL THICKNESS.
4. COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (PURPLE = REUSE)
5. ALL METER BOXES SHALL BE SET FLUSH WITH FINISHED GRADE.

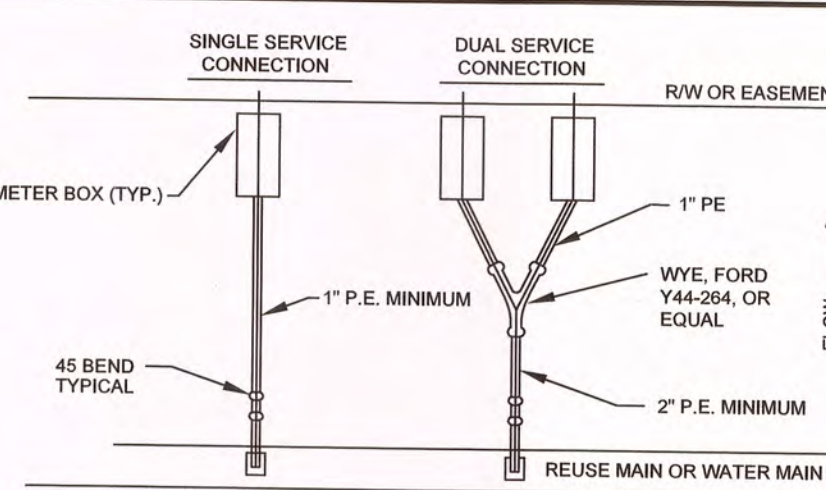
REUSE METER
RESIDENTIAL & COMMERCIAL 2" AND BELOW
N.T.S.



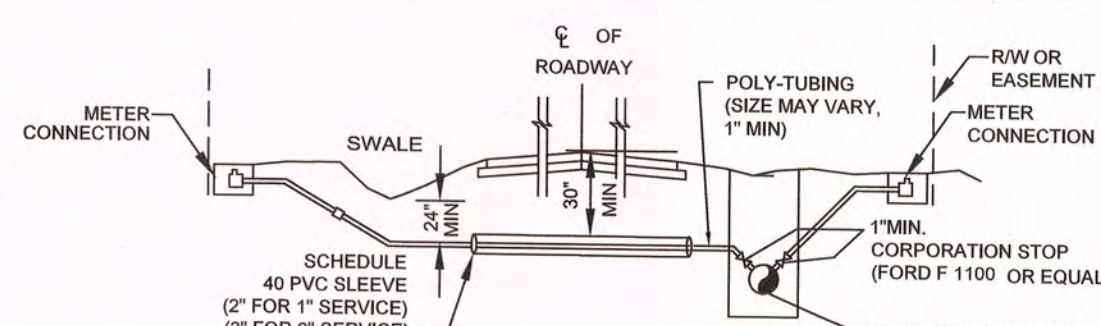
1. BACKFLOW PREVENTION ASSEMBLY MUST BE CERTIFIED WITHIN THE PAST YEAR AND A VISIBLE TAG INSTALLED.
2. INLINE MAIN VALVE MUST REMAIN CLOSED UNTIL FINAL CITY TURNOVER IS COMPLETE AND FDEP CLEARANCE IS ISSUED.
3. JUMPER ASSEMBLY SHALL BE REMOVED ONCE MAIN LINE IS CLEARED AND TURNED OVER TO CITY.
4. DURING JUMPER REMOVAL, CORPORATION STOPS SHALL BE SHUT OFF AND PLUGGED WITH LEAD FREE BRASS PLUGS.

TEMPORARY MAIN-LINE JUMPER DETAIL
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	REUSE METER & TEMPORARY JUMPER	SHEET NO. W-7



RESIDENTIAL METER CONNECTION DETAIL
N.T.S.



1. TAPS SHALL NOT BE CLOSER THAN TWO FEET APART OR WITHIN TWO FEET OF ANY JOINT.
2. TAPS IN MULTIPLE GROUPS SHALL NOT BE MADE IN THE SAME LONGITUDINAL LINE OF THE PIPE BUT MUST BE STAGGERED VERTICALLY.
3. TAPPING SADDLE SHALL BE EPOXY COATED, DUCTILE IRON BODY WITH SS 316 BAND(S) AND HARDWARE.
4. BRASS FITTINGS AND BALL VALVES SHALL BE FORD F1100 OR EQUAL.
5. ALL SERVICES SHALL HAVE COPPER TRACING WIRE.
6. ALL SLEEVE ENDS SHALL BE SEALED WITH FOAM SEAL.
7. INSERT STIFFENERS WILL NOT BE ACCEPTABLE.
8. ALL WATERWORKS BRASS MUST BE LEAD FREE.
9. METER SIZE AND SERVICE LINE PIPING DOWNSTREAM OF METER SHALL BE MINIMALLY SIZED BASED ON FIXTURE CALCS AS DETERMINED BY THE EOR.
10. FOR CURBED ROADWAYS: CURB SHALL BE ETCHED WITH THE LETTER "W" FOR WATER SERVICE AND "R" FOR REUSE SERVICE DIRECTLY PERPENDICULAR TO THE METER.

WATER & REUSE SERVICE CONNECTION
N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - WATER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 480-3031	RESIDENTIAL METER & SERVICE CONNECTION	SHEET NO. W-8

RECORD
DRAWING

RECORD DRAWING	ACTIVITY	INITIALS/EMP. NO.	DATE	CLIENT: NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC	DATE: 2018-02	TITLE: WATER DISTRIBUTION CONSTRUCTION DETAILS	INDEX NUMBER: ASB 94-95 (COV)
	DESIGNED BY:		2018-02		HORIZONTAL SCALE:		
	DRAWN BY:		2018-02		VERTICAL SCALE:		
	CHECKED BY:				SEC. TWP. RGE. 36 38S 19E	CROSS REFERENCE FILE NO.:	
	CONTRACT ADMIN. BY:					PROJECT NUMBER:	
	WM APPROVED BY:						
Δ REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.			SHEET NUMBER: 53 OF 61