

LEGEND

ABBREVIATIONS

EL or ELEV	ELEVATION
INV	INVERT
LF	LINEAL FEET
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NC	NOT IN CONTRACT
SB	SOIL BORING
STA	STATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
C	CENTERLINE
FL	FLOW LINE
CMP	CORRUGATED METAL PIPE
D.I.P.	DUCTILE IRON PIPE
P.V.C.	POLYVINYL CHLORIDE PIPE
HDP	HIGH DENSITY POLYETHYLENE
RCP	REINFORCED CONCRETE PIPE
ERCP	ELLIPITICAL REINFORCED CONCRETE PIPE
MH	MANHOLE
STR	STORM SEWER STRUCTURE
X'XX' LT./X'XX' 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
	EXISTING PAVEMENT ELEVATION
	DIRECTION OF DRAINAGE FLOW
	PROPOSED CONTROL STRUCTURE
	MINIMUM FINISHED FLOOR ELEVATION

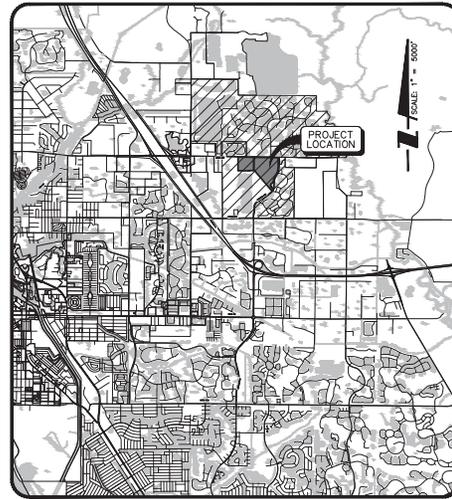
NOTE: OPEN SYMBOLS AND DASHED LINES DENOTE EXISTING IMPROVEMENTS

SITE DEVELOPMENT DATA:

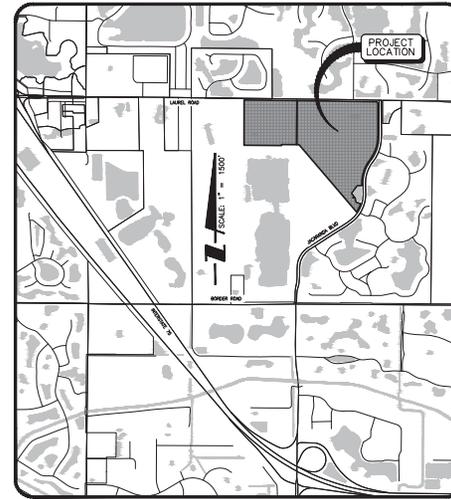
PROJECT: CIELO
 ENGINEER: STANTEC, INC
 6900 PROFESSIONAL PKWY EAST
 SARASOTA, FL 34240
 SURVEYOR: BRIGHAM ALLEN LAND SURVEYING
 807 US 41 SPRING SOUTH SUITE E
 VENICE, FL 34285
 DEVELOPER/OWNER: BORDER AND JACARANDA HOLDINGS LLC
 5800 LAKEWOOD RANCH BLVD N
 LAKEWOOD RANCH, FL 34240
 MILANO PUD
 ZONING: "X" PER FIRM #12115C0244F (NAV088)
 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: PHASE 1 89.59 AC
 PHASE 2 35.94 AC
 PID: PORTIONS OF PID#0389001000 AND #0389001001
 AND ENTIRETY OF PID#03892001000
 DATUM: NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
 FDEP AND FDOH WATER AND WASTEWATER, SARASOTA COUNTY UTILTY CONSTRUCTION AND
 RIGHT-OF-WAY PERMITS ARE REQUIRED.
 THESE TO BE REQUIRED AREA: 89.59 AC

THE HOMEOWNERS ASSOCIATION IS RESPONSIBLE FOR THE MAINTENANCE OF THE COMMON AREAS, STORMWATER MANAGEMENT SYSTEM 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 ±125.5 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 400-3.53(10) 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.
 THE ENGINEER OR SURVEYOR, WITH INFORMATION PROVIDED BY THE CONTRACTOR, SHALL PROVIDE RECORD DRAWINGS THAT MEET THE REQUIREMENTS OF THE SARASOTA COUNTY STORM WATER, WASTEWATER AND RECLAIMED WATER CODE, LATEST EDITION.
 SARASOTA COUNTY UTILITIES CONTACT: PAT BROWN
 PH: 941-861-0061
 1001 SARASOTA CENTER BLVD
 SARASOTA, FL 34240
 CITY OF VENICE UTILITIES CONTACT: JOHN MONWILLE
 PH: 941-862-7300
 200 MARSHALL AVE N
 VENICE, FL 34285
 JMONWILLE@VENICEFL.GOV

FP&L CONTACT: PAM DURHAM
 2000 W. WASHINGTON AVE
 FAMILY.DURHAM@FP&L.GOV
 UTILITIES REGULATORY MANAGER: MICHAEL MEWAN
 2000 W. WASHINGTON AVE
 FAMILY.MEWAN@VENICEFL.GOV
CITY OF VENICE NOTES:
 1. ALL WORK CONDUCTED IN THE CITY OF VENICE RIGHT-OF-WAY (ROW) WILL REQUIRE THE ISSUANCE OF A ROW PERMIT.
 2. ALL WORK CONDUCTED IN SARASOTA COUNTY AND/OR FDOT ROW SHALL REQUIRE A COPY OF THE ISSUED PERMITS.
 3. TREE REMOVAL PERMIT MUST BE OBTAINED FROM SARASOTA COUNTY NATURAL RESOURCES DEPARTMENT.
 4. POST DEVELOPMENT RUNOFF DOES NOT EXCEED PRE-DEVELOPMENT RUNOFF VOLUME OR RATE FOR A 24-HOUR, 25-YEAR STORM EVENT.
 5. ALL FIRE SERVICE BACKFLOW ASSEMBLIES SHALL BE INSTALLED BY A CERTIFIED CONTRACTOR WITH A CLASS S.U. OR A CERTIFIED COMPETENCY ISSUED BY THE STATE FIRE MARSHAL AS PER F.S. 633.521
 6. CONSTRUCTION SITE MUST BE POSTED WITH 24-HOUR CONTACT INFORMATION AND / OR SARASOTA COUNTY STANDARDS.
 7. ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE AND / OR SARASOTA COUNTY STANDARDS.
 8. CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF SUBMITTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION.
 9. ENGINEER'S QUANTITY ESTIMATE OF INFRASTRUCTURE IMPROVEMENTS, ON SITE:
 LINEAR FEET OF RECLAIMED WATER 0 LF
 LINEAR FEET OF POTABLE WATER MAIN 3,989 LF
 LINEAR FEET OF GRAVITY SEWER MAIN 1,328 LF
 LINEAR FEET OF FORCE MAIN 1,277 LF
 NUMBER OF FORCE MAIN 18



LOCATION MAP



SITE MAP

SUB-PHASE 2 WATER MAIN RECORD DRAWINGS FOR

CIELO

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

A DEVELOPMENT BY
**NEAL COMMUNITIES OF
 SOUTHWEST FLORIDA, LLC**

5800 LAKEWOOD RANCH BLVD
 SARASOTA, FLORIDA 34240
 (941)-328-1111

RECORD DRAWINGS

May 8, 2020

APPROVED

INDEX TO SHEETS

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3	EXISTING CONDITIONS-PLAN		
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28-33	GRADING AND DRAINAGE PLAN-DEVELOPMENT PHASE 2		
34	MASTER WATER AND SEWER PLAN		
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57	LIFT STATION DETAILS PHASE 1		
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44-SHEETS	STORMWATER INFLOW AND CONTROL SCHEMATICS FOR SINGLE & TRIPLE PHASE OUTFALL WATER CONTROL FINES AT WASTE WATER LIFT STATION (WSP-COVER, WSP-01, WSP-02, WSP-03A, WSP-03B, WSP-03C, WSP-04A, WSP-04B, WSP-04C, WSP-04D, WSP-04E)		
45-SHEETS	CONCRETE RETENTION WALLS FOR TRIPLE PHASE OUTFALL (WSP-03A, WSP-03B, WSP-03C, WSP-04A, WSP-04B, WSP-04C, WSP-04D, WSP-04E)		
46-SHEETS	STORMWATER INFLOW AND CONTROL SCHEMATICS FOR SINGLE & TRIPLE PHASE OUTFALL WATER CONTROL FINES AT WASTE WATER LIFT STATION (WSP-COVER, WSP-01, WSP-02, WSP-03A, WSP-03B, WSP-03C, WSP-04A, WSP-04B, WSP-04C, WSP-04D, WSP-04E)		
47-SHEETS	CONCRETE RETENTION WALLS FOR TRIPLE PHASE OUTFALL (WSP-03A, WSP-03B, WSP-03C, WSP-04A, WSP-04B, WSP-04C, WSP-04D, WSP-04E)		
03/31/20	SUB-PHASE 2 WATER MAIN RECORD DRAWINGS	JRC/007	
12/09/19	REVISED PER CITY UTILITY COMMENTS	RSB/115155	
02/12/19	REVISED PER CITY UTILITY COMMENTS	RSB/115155	
01/20/19	REVISED PER CITY COMMENTS DATED 01/29/19	RSB/115155	
NO.	DATE	DESCRIPTION	BY
PROJECT PLANNER	PROJECT DEVELOPER	PROJECT CONSULTANT	
JM COLLINS	NEAL COMMUNITIES	STANTEC	
PROJECT DESIGNER	PROJECT MANAGER	PROJECT ENGINEER	
ROCKY BERTON	MELANIE DELEHANTY SMITH, P.E. FLORIDA LICENSE NO. 75447	THOMAS FLEDDERMAN, P.E. FLORIDA LICENSE NO. 62341	
CHECKED BY	DATE		
RESERVED FOR STATUS AND DATE STAMPS	PROJECT NUMBER		
	215613459		
DATE	INDEX NUMBER		
SEPTEMBER 2018	D-RecordCoverPhase2.WM		

POINT BREAK SURVEYING, LLC

CERTIFICATE OF AUTHORIZATION LB 0007384

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



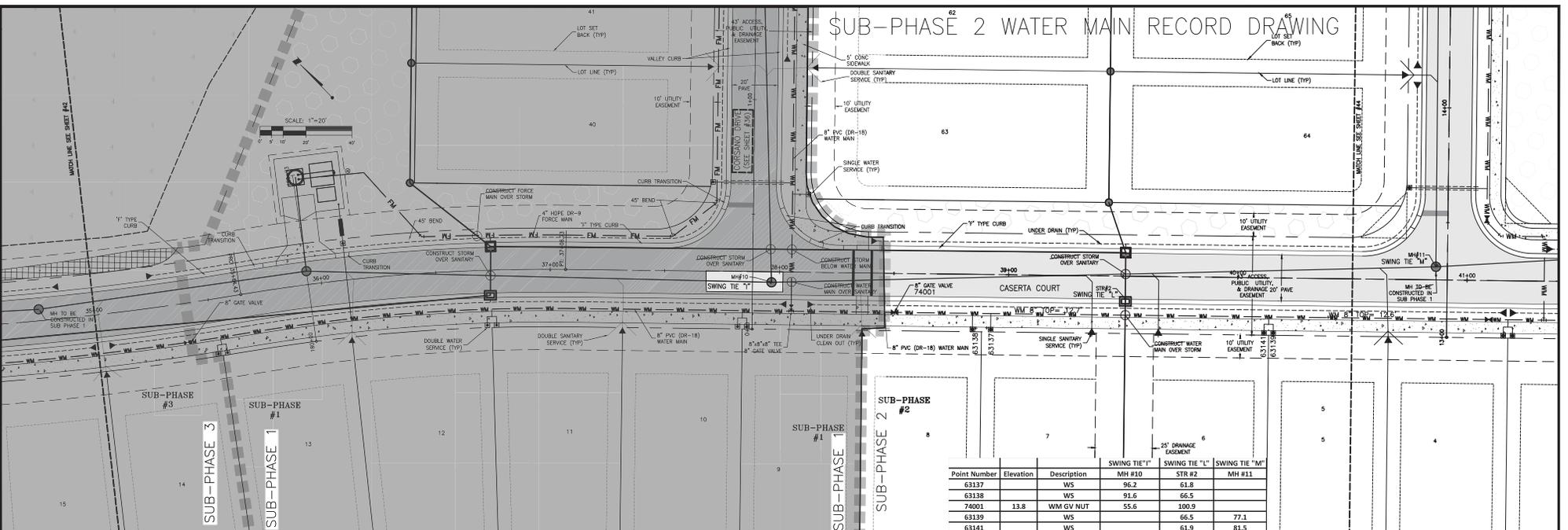
CERTIFICATION:
 I HEREBY CERTIFY THAT THE AS-BUILT MEASUREMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYED IN THE FIELD UNDER MY DIRECTORIAL SUPERVISION AND INFORMATION FROM MARKERS POSITIONED AND INFORMATION PROVIDED BY CONTRACTOR.
 JEFFERY B. MORROW P.S.M.
 FL CERT. NO. 6296

BASE 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.

THOMAS F. FLEDDERMAN, P.E.
 FLORIDA LICENSE NO. 62341

DATE

SUB-PHASE 2 WATER MAIN RECORD DRAWING

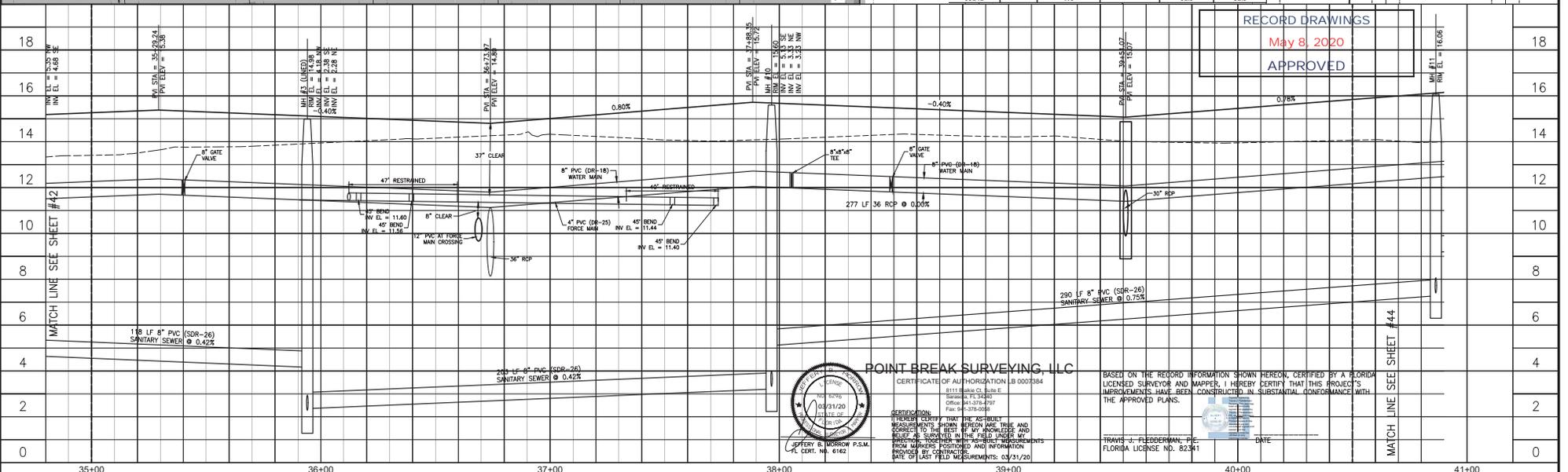


Point Number	Elevation	Description	SWING TIE "I"	SWING TIE "L"	SWING TIE "M"
63137		WS	MH #10	STR #2	MH #11
63138		WS	96.2	61.8	
74001	13.8	WM GV NUT	55.6	100.9	
63139		WS		66.5	77.1
63141		WS		61.9	81.5

RECORD DRAWINGS

May 8, 2020

APPROVED



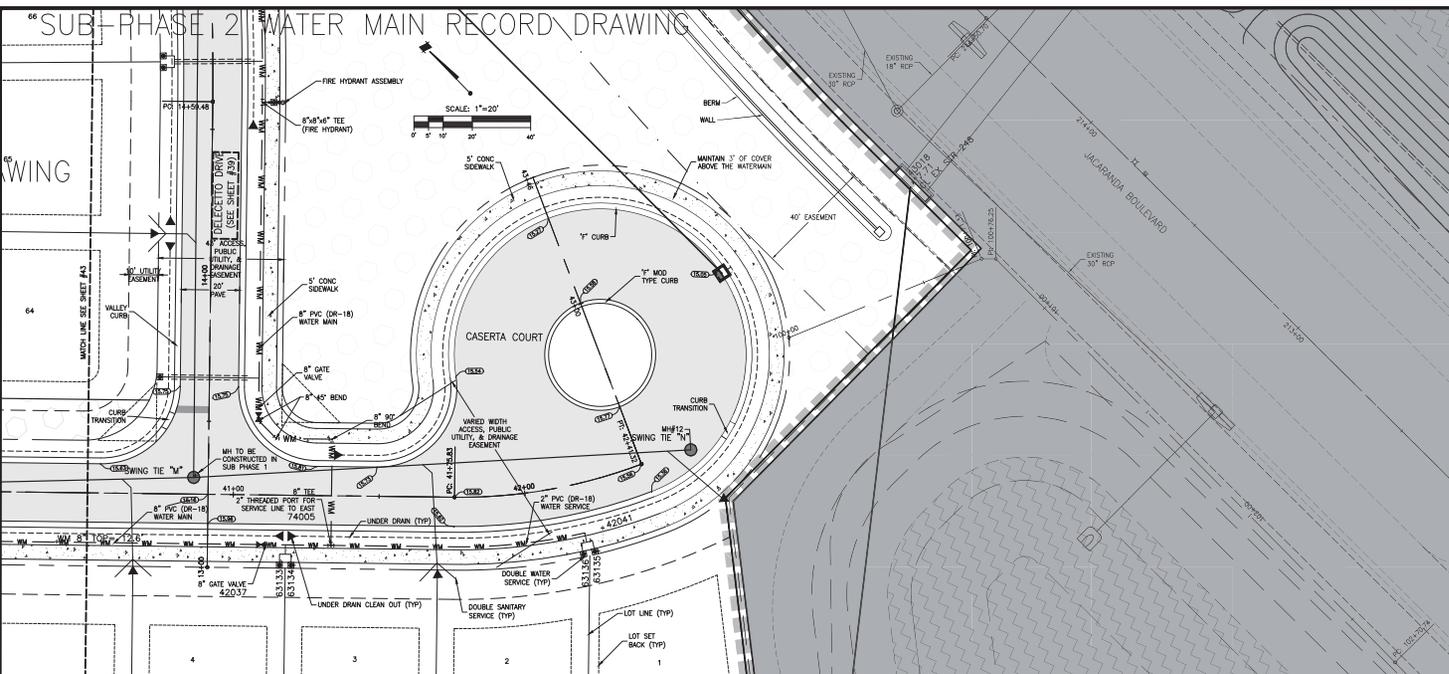
POINT BREAK SURVEYING, LLC
 CERTIFICATE OF AUTHORIZATION: 03-00073894
 8111 Babcock Drive, Suite 11
 Sarasota, FL 34230
 Office: 941-578-4707
 Fax: 941-378-0058

STATEMENT: I HEREBY CERTIFY THAT THE SUBMITTAL MEASUREMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SHOWN IN THE FIELD UNDER MY PERSONAL SUPERVISION. I HAVE OBTAINED ALL NECESSARY PERMISSIONS FROM THE PROPERTY OWNERS AND ALL NECESSARY PERMITS FROM THE APPROPRIATE AGENCIES.
 DATE OF LAST FIELD MEASUREMENTS: 03/31/20

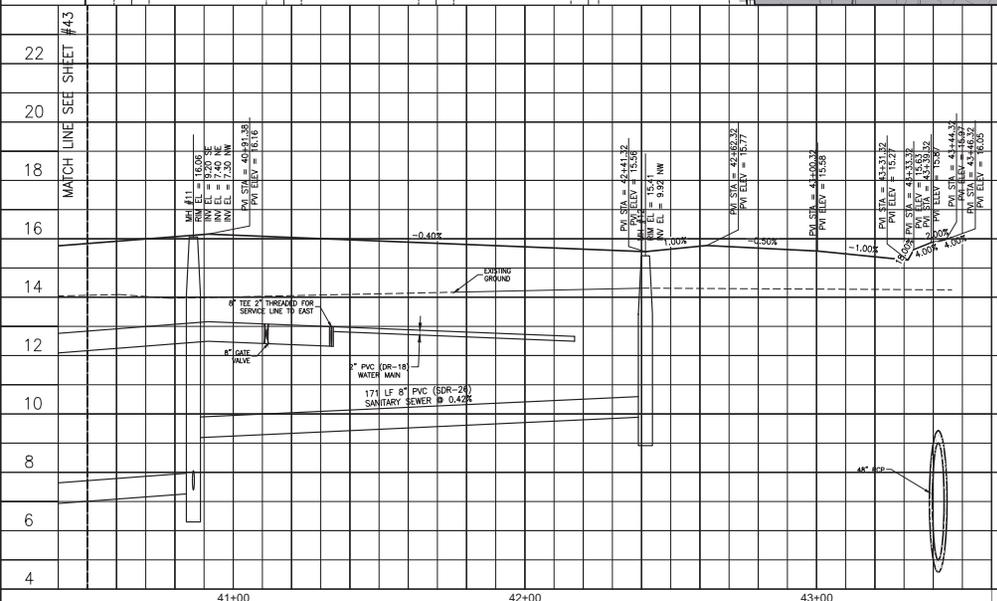
BASED ON THE RECORD INFORMATION SHOWN HEREON, CERTIFIED BY A FLORIDA LICENSED SURVEYOR AND MAPPER, I HEREBY CERTIFY THAT THIS PROJECT'S MEASUREMENTS HAVE BEEN CONDUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS.

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

66 SUB-PHASE 2 WATER MAIN RECORD DRAWING



Point Number	Elevation	Description	SWING TIE "M"	SWING TIE "N"
42037	14.3	WM 8" GV NUT	33.9	149.8
42041	14.7	WM BO	140.8	40.5
63133		WS	42.3	146.5
63134		WS	45.5	142.1
63135		WS	140.5	47.1
63136		WS	136.0	51.2
74005	12.9	WM 8" TEE	52.2	128.0



RECORD DRAWINGS
May 8, 2020
APPROVED

POINT BREAK SURVEYING, LLC
 CERTIFICATE OF AUTHORIZATION LB 0097384
 8111 Blanka Ct, Suite E
 Sarasota, FL 34240
 Office: 941-378-4757
 Fax: 941-378-4058

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 DIRECTOR, TOGETHER WITH AS-BUILT MEASUREMENTS FROM MARKERS POSITIONED AND INFORMATION PROVIDED BY CONTRACTORS.
 DATE OF LAST FIELD MEASUREMENTS: 03/31/20

OFFICE: M. MORROW P.S.M.
 CERT. NO. 618

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.

TRANS J. FLEDDERMAN, P.
 FLORIDA LICENSE NO. 82341

DATE

NO.	REVISION	DATE	BY / OR. NO.	CHECKED BY / OR. NO.	APPROVED BY / OR. NO.
C	WATER MAIN RECORD DRAWINGS	03/31/20	JRC/7007		
B	REVISED PER CITY UTILITY COMMENTS	02/12/19	RSB/115145		
A	REVISED PER CITY COMMENTS DATED 01/29/19	01/30/19	RSB/115155		

Stantec
 6000 Professional Parkway East, Sarasota, FL 34240-6414
 Phone: 941-550-2000 • Fax: 941-550-2000
 Certificate of Authorization #27019 • www.stantec.com

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

DATE: 03-2018
 DRAWING SCALE: 1" = 20'
 PROJECT NUMBER: 215613459

TITLE: RECORD PLAN AND PROFILE
 CASERTA COURT 40+50 - 40+31.32
 FORCE MAIN 100+00 - 102+00

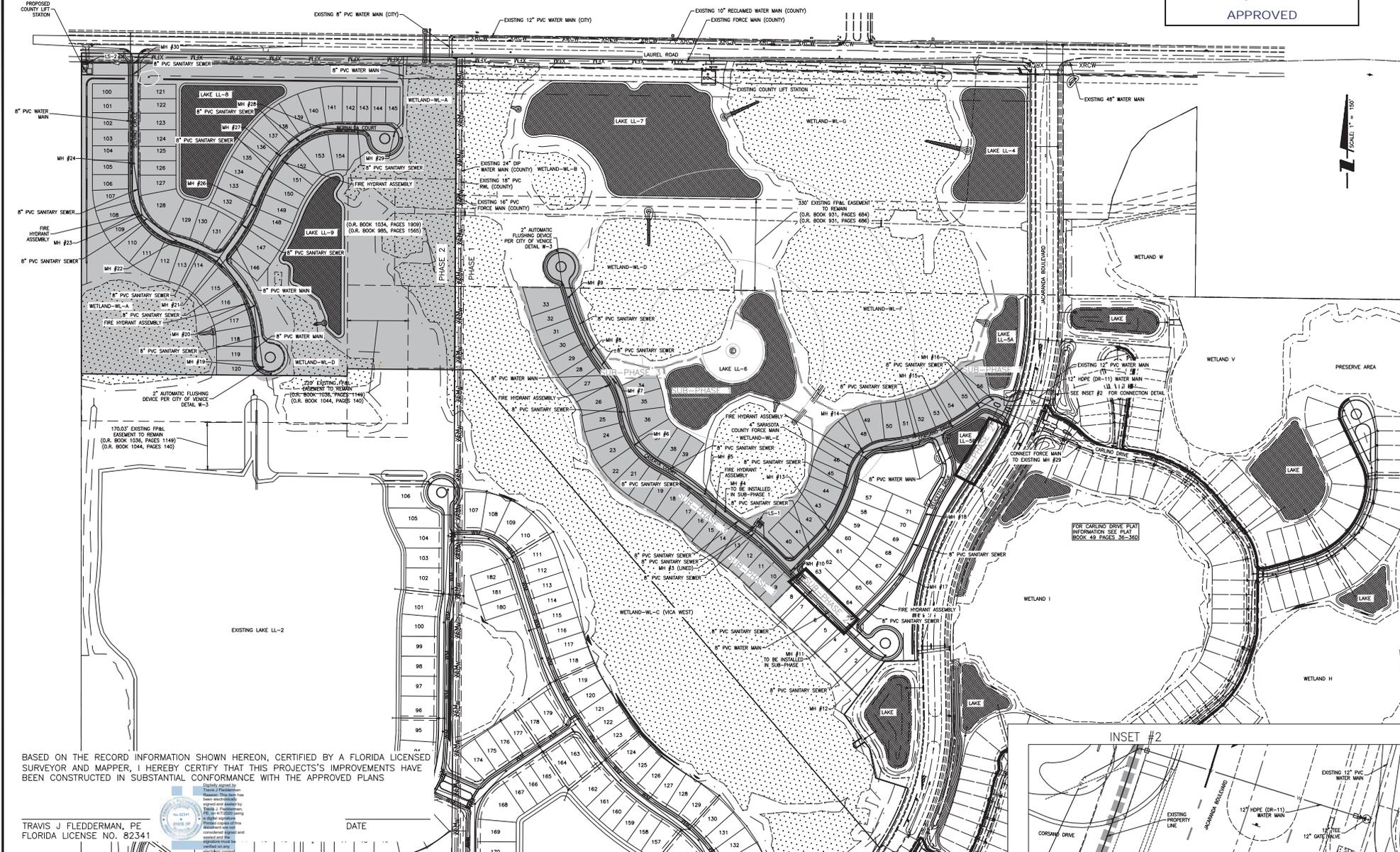
FLORIDA LICENSE NO. 75447
 RECORD WATER 44
 SHEET NUMBER: 44 OF 75

RECORD DRAWINGS

May 8, 2020

APPROVED

HATCH INDICATES PHASE 2
(AREA TO BE PLATTED AS A FUTURE DEVELOPMENT TRACT)
(DESIGN WITHIN PHASE 2 IS CONCEPTUAL AND FOR PLANNING PURPOSES ONLY)



SCALE: 1" = 150'

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

TRAVIS J FLEDDERMAN, PE
FLORIDA LICENSE NO. 82341



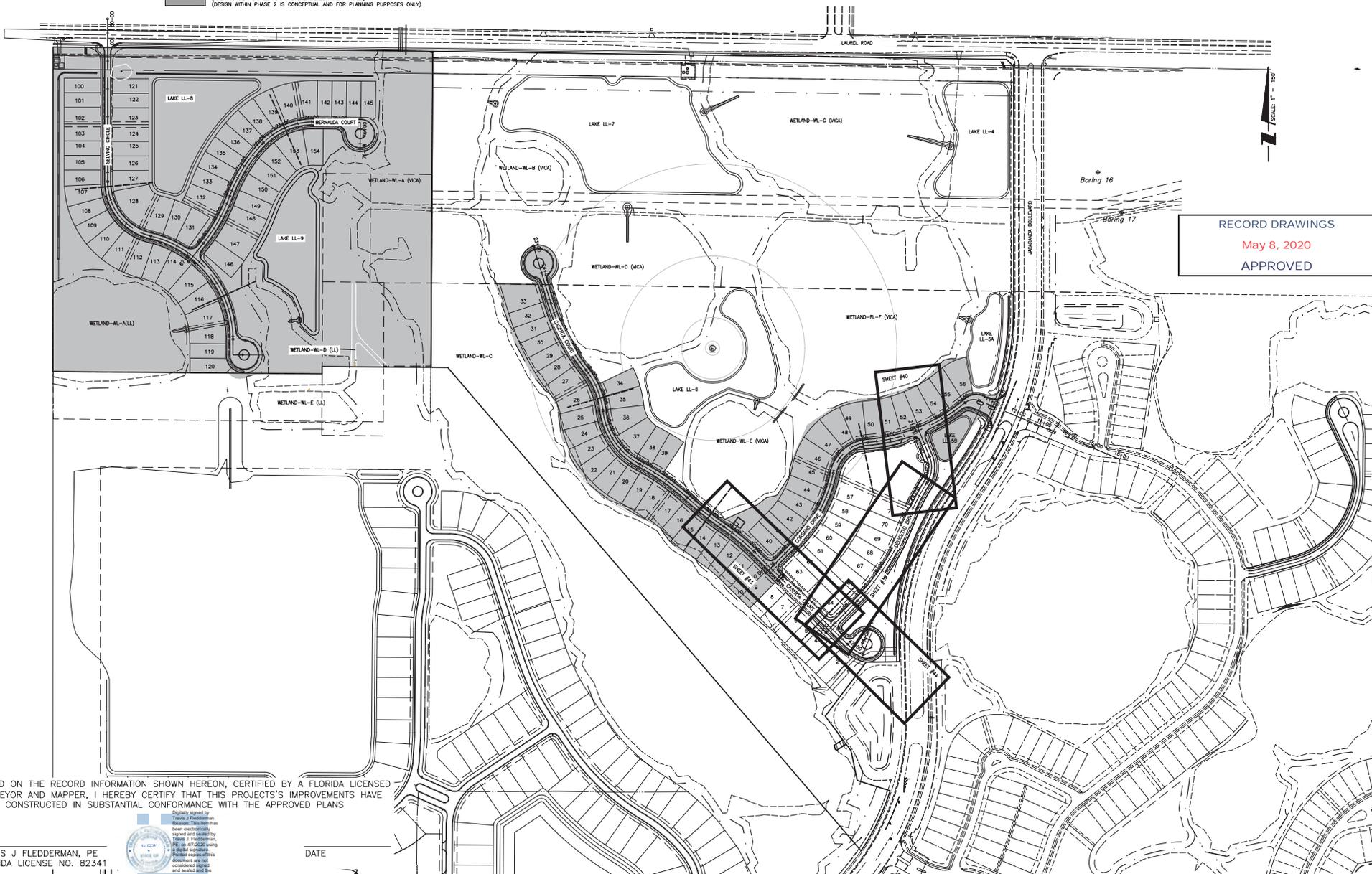
DATE

ACTIVITY:	NEWS/EMP. NO.	DATE:	CLIENT:	DATE:	TITLE:
DESIGNED BY:		03-2018	NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC	03-2018	MASTER WATER AND SEWER PLAN
DRAWN BY:		03-2018			
CHECKED BY:					
CONTRACT ADMIN. BY:					
WM APPROVED BY:					
REVISION	DATE	DRAWN BY / DW. NO.	CHECKED BY / DW. NO.	WM APPROVED BY:	

RECORD DRAWING

PROJECT:	CIELO SUB-PHASE II	DATE:	03-2018	TITLE:	MASTER WATER AND SEWER PLAN
		VERTICAL SCALE:	1" = 150'		
		HORIZONTAL SCALE:	1" = 150'		
		SEE "M" TAG	CROSS REFERENCE KEY MAT	PROJECT NUMBER:	215613459
		35 385 192		RISK NUMBER:	215613459-04C-813EX
				REVISION NUMBER:	34 of 75

HATCH INDICATES PHASE 2
 (AREA TO BE PLAYED AS A FUTURE DEVELOPMENT TRACT)
 (DESIGN WITHIN PHASE 2 IS CONCEPTUAL AND FOR PLANNING PURPOSES ONLY)



RECORD DRAWINGS
 May 8, 2020
 APPROVED

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

TRAVIS J FLEDDERMAN, PE
 FLORIDA LICENSE NO. 82341



DATE

ACTIVITY	NEWS/EMP. NO.	DATE	CLIENT:	03-2018	TITLE:
DESIGNED BY:		03-2018	NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC	HORIZONTAL SCALE: 1" = 150'	PLAN AND PROFILE KEY SHEET
DRAWN BY:			PROJECT:	35-385-19C	
CHECKED BY:			CIELO SUB-PHASE 2	CROSS REFERENCE FILE NO:	
CONTRACT ADMIN. BY:				PROJECT NUMBER:	215613459
WM APPROVED BY:					35 of 75

RECORD DRAWINGS

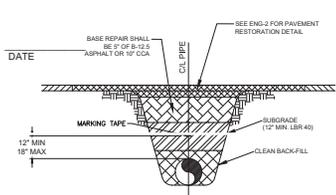
RECORD NUMBER:
215613459-04C-814EX
SHEET NUMBER:
35 of 75

TRENCH NOTES

- WHERE WATER, REUSE AND/OR SEWER MAINS CROSS WITH LESS THAN EIGHTEEN INCHES (18") VERTICAL CLEARANCE, ONE OF THE FOLLOWING METHODS OF PROTECTION SHALL BE UTILIZED:
 - WHERE A CONFLICT ARISES WITH AN EXISTING SEWER OR REUSE MAIN, THE PROPOSED WATER MAIN SHALL BE A MINIMUM OF TWENTY FEET (20') OF AWWA C-900 DR-14 PVC OR CL-51 D.I.P., CENTERED ON THE POINT OF CROSSING.
 - WHERE A CONFLICT ARISES WITH AN EXISTING WATER OR REUSE MAIN, THE PROPOSED SEWER MAIN SHALL BE A MINIMUM OF TWENTY FEET (20') OF AWWA C-900 DR-14 PVC, CENTERED ON THE POINT OF CROSSING.
 - WHERE A CONFLICT ARISES WITH PROPOSED WATER, REUSE AND/OR SEWER MAINS, THE WATER AND REUSE MAIN SHALL BE A MINIMUM OF TWENTY FEET (20') OF AWWA C-900 DR-14 PVC OR CL-51 D.I.P., WHILE THE SEWER MAIN SHALL BE A MINIMUM OF TWENTY FEET (20') OF AWWA C-900 DR-14 PVC, CENTERED ON THE POINT OF CROSSING.
- WHEN A WATER MAIN PARALLELS A WASTEWATER LINE, A HORIZONTAL SEPARATION OF AT LEAST TEN FEET (10') FROM OUTSIDE EDGE TO OUTSIDE EDGE SHOULD BE MAINTAINED, WHEN SEPARATED BY LESS THAN 10 FEET (10') HORIZONTAL, THE WATER MAIN SHALL BE AWWA C-900 DR-14 PVC, OF CLASS-51 D.I.P. AND SEWER LINES SHALL BE AWWA C-900 DR-14 PVC. JOINTS SHALL BE STAGGERED TO MAINTAIN JOINT SEPARATION.
- WHEN A WATER MAIN OR WASTEWATER LINE PARALLELS A REUSE MAIN, A HORIZONTAL SEPARATION OF AT LEAST FIVE FEET (5') CENTER OF PIPE TO CENTER OF PIPE SHOULD BE MAINTAINED, IN NO CASE SHALL THE HORIZONTAL SEPARATION BE LESS THAN THREE FEET (3') FROM OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE.
- TRENCH SHALL BE BRACED OR SHORED IN ACCORDANCE WITH THE "FLORIDA TRENCH & SAFETY ACT".
- WIDTH OF TRENCH BOTTOM SHALL BE OUTSIDE DIAMETER OF PIPE PLUS TWELVE INCHES (12") EACH SIDE, MAXIMUM.
- CONTRACTOR SHALL PLACE METALLIC BURIAL IDENTIFICATION TAPE DIRECTLY ABOVE WATER MAIN IN CONFORMANCE WITH COUNTY CODE.
- ALL BELL POINT HOLES SHALL BE FILLED WITH COARSE SAND OR OTHER SATISFACTORY GRANULAR MATERIAL AT TIME WELL POINTS ARE PULLED.
- DISCHARGE FROM DE-WATERING OPERATION SHALL BE DEPOSITED IN SUCH A MANNER THAT IT SHALL NOT INTERFERE WITH THE NORMAL OPERATION OF RECORD AND OTHER NECESSARY REGULATORY AGENCIES PRIOR TO CONSTRUCTION. ADDITIONALLY, WHERE PRIVATE PROPERTY SHALL BE INVOLVED, ADVANCE PERMISSION SHALL BE OBTAINED BY THE CONTRACTOR AND/OR DEVELOPER.
- THE PROPOSED DE-WATERING METHOD(S) AND SCHEDULE SHALL BE COORDINATED WITH THE CITY ENGINEER AND/OR THE ENGINEER OF RECORD AND OTHER NECESSARY REGULATORY AGENCIES PRIOR TO CONSTRUCTION. ADDITIONALLY, WHERE PRIVATE PROPERTY SHALL BE INVOLVED, ADVANCE PERMISSION SHALL BE OBTAINED BY THE CONTRACTOR AND/OR DEVELOPER.
- THE CONTRACTOR SHALL PROVIDE SOIL COMPACTION TESTING IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. IF THE SPECIFICATIONS DO NOT ADDRESS COMPACTION TESTS, THEY SHALL BE DONE IN ACCORDANCE WITH CITY OF VENICE UNIFORM WATER AND WASTEWATER SYSTEM AND REUSE CODE, LATEST EDITION. ALL SOIL COMPACTION TESTS RESULTS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.
- ALL CONSTRUCTION SHALL ADHERE TO CITY OF VENICE STANDARD DETAILS.
- ALL SANITARY SEWER / FORCE MAIN CONSTRUCTION SHALL ADHERE TO SARASOTA COUNTY DETAILS.

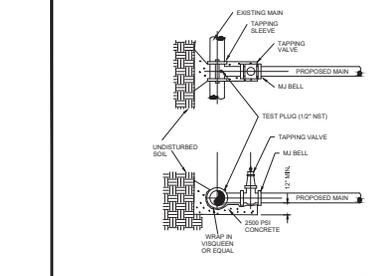
BASED ON THE THE RECORD INFORMATION SHOWN HEREON, CERTIFIED BY A FLORIDA LICENSED SURVEYOR AND MAPPER, I HEREBY CERTIFY THAT THIS PROJECT'S IMPROVEMENTS HAVE BEEN CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS

TRAVIS J FLEDDERMAN, PE
FLORIDA LICENSE NO. 82341

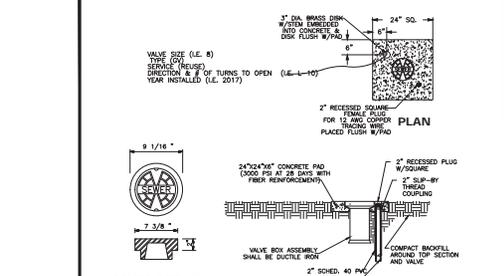


MARKING TAPE AND MESSAGES		MESSAGE
PIPE	TAPE COLOR	
PVC STORM WATER	WHITE	CAUTION STORM WATER OR STORM DRAIN BELOW
POTABLE WATER MAIN	BLUE	CAUTION POTABLE WATER MAIN BELOW
REUSE WATER MAIN	PURPLE	CAUTION REUSE WATER MAIN BELOW
SEWER FORCE MAIN	GREEN	CAUTION SEWER FORCE MAIN BELOW
SEWER & SERVICE LATERALS	GREEN	CAUTION SEWER MAIN BELOW

- COPPERHARD TRACKING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP ALL PIPES AT 20' INTERVALS ON ALL UNRECLAIMED WATER FORCE MAINS. THE WIRE SHALL BE COLORED TO IDENTIFY THE FORCE MAIN TYPE. THE PIPE CARRIER, IF AVAILABLE, SHALL BE USED TO IDENTIFY THE PIPE CARRIER.
- MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE UNLESS OTHERWISE SPECIFIED OR FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
- INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- INSTALLATION SHALL CONFORM WITH DETAIL ENG-2 OF THESE CITY STANDARDS.
- CONCRETE UTILITY SPINDS WITH SEPARATION AS PER CITY DETAILS.
- ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/WATER SHALL BE 36" MIN. BELOW THE ACTUAL BOTTOM OF DITCH/WATER.
- MARKING TAPE SHALL BE 2" WIDE (MIN) DETECTABLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
- SEE 44 FOR GRAVITY SEWER PIPE TRENCH DETAIL.



- EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
- UPON SUCCESSFUL TAPPING BLEED PRESSURE TEST (NOTE 1), THE UNREST BLOCK SHALL BE POLISHED AND HAVE SET FOR 24 HOURS PRIOR TO TAPPING. READY MADE "WREST BLOCKS" CAN BE USED WITH CITY APPROVAL.
- STAINLESS STEEL TAPPING SLEEVE SHALL BE FORD. ALL HARDWARE SHALL BE STAINLESS STEEL. GASKETS SHALL BE VIRGIN SBR COMPOUND.
- GATE VALVES SHALL BE RESIDENT WATER. TYPE MANUFACTURED BY MULLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FURON BONDDED EPoxy COATED (INTERIOR AND EXTERIOR). MEET AWWA/ANSI C550, AND BE NSF1 CERTIFIED.
- TAPPING SLEEVES MAY ONLY BE USED WHEN THE TAP DIAMETER IS AT LEAST ONE PIPE SIZE SMALLER THAN THE DIAMETER OF THE MAIN BEING TAPPED.
- VALVE BOX ALIGNMENT DEVICE SHALL BE INSTALLED IN ACCORDANCE WITH W-1.



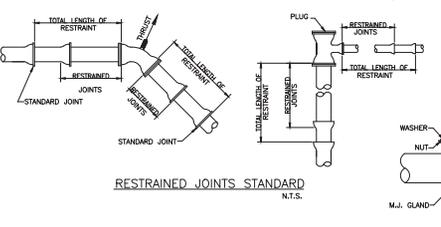
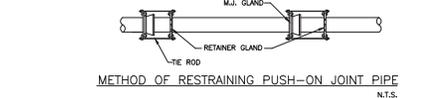
- PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
- UNPAVED AREAS: SET PAD AND COVER 1" HIGH ABOVE FINISHED GRADE.
- VALVES LOCATED IN DITCH AND OVER A DEPTH (3 IN) MUST BE TRENCH ADAPTER.
- COPPERHARD TRACKING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLORED TO REFLECT WHAT THE PIPE CARRIER, (BLUE = WATER, GREEN = SEWER, PURPLE = REUSE).
- PRE-CAST PADS MAY BE USED WITH CITY APPROVAL.
- FOR CURBED ROADWAYS CURB SHALL BE ETOCHED WITH THE LETTER "V" DIRECTLY PERPENDICULAR TO THE VALVE BOX.
- VALVE BOX COVERS SHALL BE PAINTED BLUE FOR POTABLE WATER, PURPLE FOR REUSE WATER, AND GREEN FOR SEWER.

RECORD DRAWING

THE FOLLOWING TABLES SHOULD BE USED TO DETERMINE THE LENGTH OF PIPE IN FEET FROM EACH BEND, TEE, REDUCER OR VALVE TO END OR FITTING THAT SHALL BE RESTRAINED. CALCULATIONS ARE BASED ON 8" DIA. IRON SALES, INC. RESTRAINT LENGTH CALCULATOR V7.1.2. THE DESIGN CRITERIA FOR THESE CALCULATIONS ARE AS FOLLOWS:

TRENCH CONDITION (ANSI/AWWA C150/A21.50) SOIL CLASSIFICATION (ASTM STANDARD D4957)	SM	RESTRAINED LENGTH IN FEET	
		HORIZONTAL BEND	IN-LINE VALVE OR DEAD END
4	4	22	1/2"
5	5	20	20
6	6	20	20
7	7	20	20
8	8	20	20
9	9	20	20
10	10	20	20
11	11	20	20
12	12	20	20

NOTES: 1. VERTICAL OFFSET CALCULATIONS ASSUME 3/4" OF COVER ON BOTH THE UPPER & LOWER SIDES OF VERTICAL OFFSET.
2. WHEN TEE BRANCH SIZE IS LARGER THAN THE RUN SIZE REFER TO 8" DIA. IRON, INC. CALCULATIONS FOR ADDITIONAL RESTRAINT REQUIRED UNLESS INDICATED.
3. RESTRAIN THE FULL LENGTH(S) OF PIPE MINIMUM ON EACH SIDE OF ALL FITTINGS REGARDLESS OF THE VALUES INDICATED IN THESE TABLES.



NOTE: TE RODS TO BE FIELD COATED WITH BITUMINOUS COATING.

RECORD DRAWINGS
May 8, 2020
APPROVED

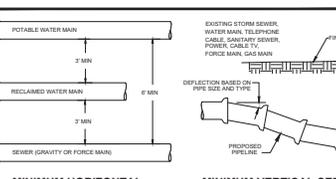
RESTRAINED JOINT TABLES FOR FORCE MAIN PIPES

RECORD DRAWING	DESIGNED BY:	DATE:
		2018-02
		2018-02

ACTIVITY	INITIALS/DATE	DATE
DESIGNED BY:		2018-02
DRAWN BY:		
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

UTILITY PIPE TRENCH DETAIL

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 486-2620 FAX (941) 486-3031	UTILITY PIPE TRENCH	SHEET NO. U-1



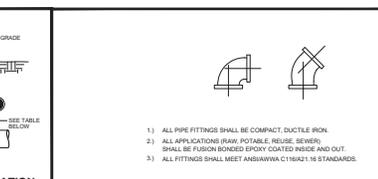
WATER MAIN	FORCE MAIN	SEWER	STORM WATER	REUSE MAIN	TELEPHONE CABLE (E, L)
3	6	3	3	3	3
4	6	3	3	3	3
5	6	3	3	3	3
6	6	3	3	3	3
7	6	3	3	3	3
8	6	3	3	3	3
9	6	3	3	3	3
10	6	3	3	3	3
11	6	3	3	3	3
12	6	3	3	3	3
13	6	3	3	3	3
14	6	3	3	3	3
15	6	3	3	3	3
16	6	3	3	3	3
17	6	3	3	3	3
18	6	3	3	3	3
19	6	3	3	3	3
20	6	3	3	3	3

UTILITY CONFLICT & SEPARATION DETAIL

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 486-2620 FAX (941) 486-3031	UTILITY CONFLICTS & SEPARATIONS	SHEET NO. U-5

TAPPING SLEEVE & VALVE DETAIL

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 486-2620 FAX (941) 486-3031	TAPPING SLEEVE & VALVE	SHEET NO. U-3



PIPE MATERIAL SCHEDULE

SERVICE	COLOR	MATERIAL/CLASS
POTABLE WATER MAIN	BLUE	AWWA C900 PVC / DR 18
RAW WATER MAIN	WHITE	FUSIBLE C900 PVC / DR 18
REUSE MAIN	PURPLE	HDPE PPI PE 4710 / DR 11 (DUCTILE IRON PIPE SDR)
FORCE MAIN (MIN. 8" DIAMETER)	GREEN	PE (POLYETHYLENE) / DR 9
WATER SERVICE	BLUE	PE (POLYETHYLENE) / DR 9
REUSE SERVICE	PURPLE	PE (POLYETHYLENE) / DR 9
GRAVITY SEWER MAIN (MIN. 8" DIAMETER)	GREEN	ASTM3034 / SDR 26 FUSIBLE PVC / SDR 26
SEWER LATERAL (MIN. 6" DIAMETER)	GREEN	ASTM3034 / SDR 26 FUSIBLE PVC / SDR 40 PVC

VALVE BOX DETAIL

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 486-2620 FAX (941) 486-3031	VALVE BOX	SHEET NO. U-4

FITTING	MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
	4	6	8	10	12	16	18	20	24	
45 BEND: H	6	9	12	14	16	21	23	25	29	
VU	4	6	7	8	10	13	15	16	19	
VO	12	20	26	32	37	48	53	28	68	
22.5 BEND: H	3	4	6	7	8	10	11	12	14	
VU	2	3	4	4	5	6	7	8	9	
VO	7	10	13	15	18	23	26	28	33	
11.25 BEND: H	2	2	3	3	4	5	5	6	7	

FITTING	MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING									
	4	6	8	10	12	16	18	20	24	
90 BEND: H	23	33	43	51	60	76	83	90	104	
45 BEND: H	10	14	18	21	25	31	34	37	43	
VU	6	8	11	13	16	20	22	24	28	
VO	22	30	40	48	56	72	80	87	102	
22.5 BEND: H	5	7	8	10	12	15	17	18	21	
VU	3	4	5	6	7	10	11	12	14	
VO	10	15	19	23	27	36	38	42	49	
11.25 BEND: H	2	3	4	4	5	6	7	8	9	

PIPE MATERIAL RESTRAINED JOINT TABLE

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 486-2620 FAX (941) 486-3031	PIPE FITTINGS & MATERIAL	SHEET NO. U-6

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 486-2620 FAX (941) 486-3031	RESTRAINED JOINT TABLE	SHEET NO. U-7

WATER DISTRIBUTION GENERAL

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSSE THE PROJECT SPECIFICATIONS. IT IS ASSUMED THE LOCATIONS MARKED ARE OR WILL CONVEY EXISTING UTILITIES.

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 WITH 0.25 FT. CLOSURE TO RELAY MAN IF NECESSARY. SHALL BE DONE BY THE CONTRACTOR.

4. ALL DISTURBED AREAS IN EXISTING LAWNS SHALL BE REPLACED WITH SOO EQUAL TO OR BETTER THAN EXISTING AND OF THE SAME TYPE. SLOPES AND BOTTOM SHALL BE SMOOTHED 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 SOODED 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 CAUTIONARY 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 CONTRACTOR'S 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 PIPE WATER MAINS SHALL BE BLUE IN COLOR. COLOR CODED PLASTIC COATED METAL PIPE 3" WIDE WITH THE WORD "WATER MAIN" SHALL BE PLACED 18 INCHES BELOW FINISHED GROUND AND ABOVE 6" DIA. AND PIPE WATER MAINS SHALL ALSO BE 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 CODED 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 PROBLEMS SHALL NOT BE ENCOUNTERED. THE LOCATION 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 899-008 AND 899-003 (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 SPECIFICATION.

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).

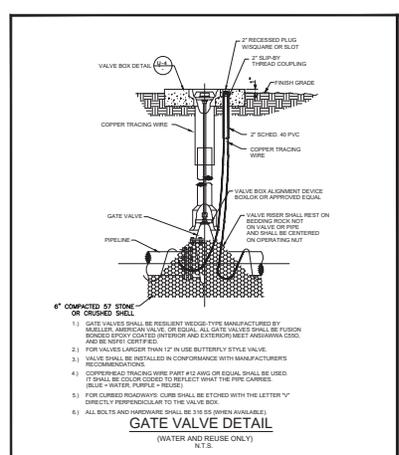
11. RESTORATION OF ALL EXISTING ROADWAYS TO CITY OF VENICE STANDARDS AND THE REPLACEMENT OF EXISTING CURBS AND SIDEWALKS ETC. SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE WATER MAIN ITEMS.

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 FOOT IF TURNED OVER TO THE CITY, OR COORDINATED WITH THE WORKS DEVELOPMENT IF PRIOR TO CITY TURNOVER.

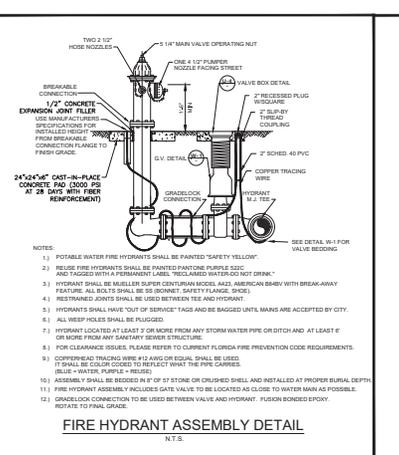
13. THE CONTRACTOR SHALL NOTIFY CITY OF VENICE UTILITIES DEPARTMENT OR THE PRIVATE UTILITY REGARDING THE DISPOSITION OF ANY FITTINGS, ETC. THAT ARE TO BE REMOVED.

14. THE CONTRACTOR SHALL PROTECT AND UTILIZE EXISTING UTILITIES BETWEEN THE EXISTING POTABLE WATER SOURCE PIPING AND THE NEW WATER MAIN IN ORDER TO PREVENT BACKFLOW PREVENTION WHILE FINISHING AND TESTING THE WATER MAIN. THE WATER MAIN SHALL BE TESTED AND AFTER THE NEW SYSTEM HAS BEEN FLUSHED CLEAN, PRESSURE TESTED, DISINFECTED, BACTERIOLOGICALLY CLEARED, CERTIFIED COMPLETE BY THE ENGINEER AND A RELEASE ORDER IS RECEIVED FROM HEALTH DEPARTMENT, ENGINEERS REPRESENTATIVE TO THE PRESIDENT AT FINAL TEST. THE LENGTH OF PIPE REQUIRED FOR DISINFECTION SHALL BE SUFFICIENT TO FILL THE ENTIRE LENGTH OF PIPE COMPLETED IN ACCORDANCE WITH HEALTH DEPARTMENT AND LOCAL GOVERNMENT RULES AND REGULATIONS.

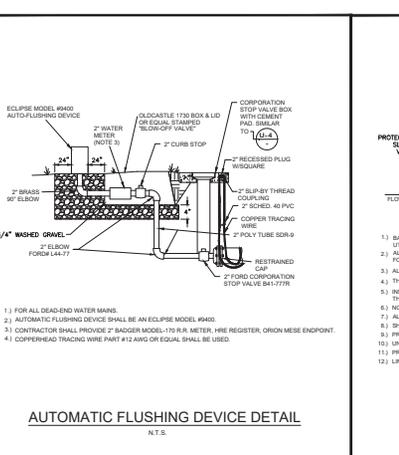
15. ALL CONSTRUCTION SHALL ADHERE TO CITY OF VENICE STANDARD DETAILS.



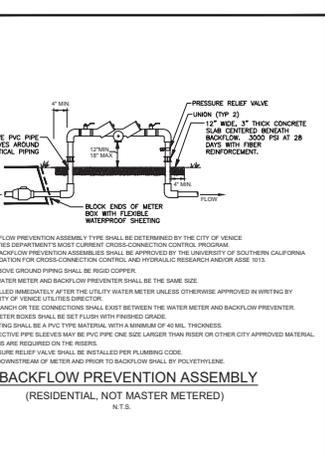
CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER GATE VALVE	DATE JAN. 2019 SHEET NO. W-1
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CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER FIRE HYDRANT ASSEMBLY	DATE JAN. 2019 SHEET NO. W-2
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CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER AUTOMATIC FLUSHING DEVICE	DATE JAN. 2019 SHEET NO. W-3
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CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER BACKFLOW ASSEMBLY (NO MASTER METER)	DATE JAN. 2019 SHEET NO. W-5
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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

TRAVIS J FLEDDERMAN
FLORIDA LICENSE NO. 82341



SERVICE DETAILS:

1. ALL METER BOXES HAVE BEEN CALCULATED FOR LOCATION AND SHALL BE SITED ACCORDINGLY IN THE FIELD. BOXES FOUND NOT CONFORMING 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 BURIAL 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, MINIMUM LENGTH P.I.E. (MIN. 3 FT.) COPPER TUBE SIZE SERVICE PIPE, CURB STOP AND METER BOX OF THE SIZE FOR METER INSTALLED.

6. VERTICAL CLEARANCE BETWEEN WATER AND STORM/ REUSE/ WASTEWATER LINES SHALL BE 18 INCHES MINIMUM.

7. A "W" OR "V" SHALL BE STAMPED INTO CURBS 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.

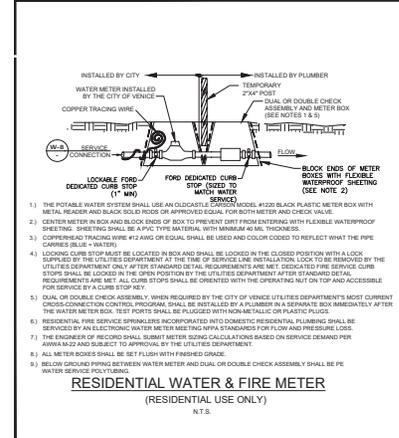
NOTES:

1. THE CONTRACTOR SHALL LOCATE VALVES, SERVICES, HYDRANTS, AIR RELEASE VALVES, ETC. BY USING A TWO (2) POINT SANG MEASUREMENT FROM PERMANENT PHYSICAL FEATURES THAT CAN BEADILY 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 PAVEMENT APPLICATION FOR PERMANENT RECORDING.

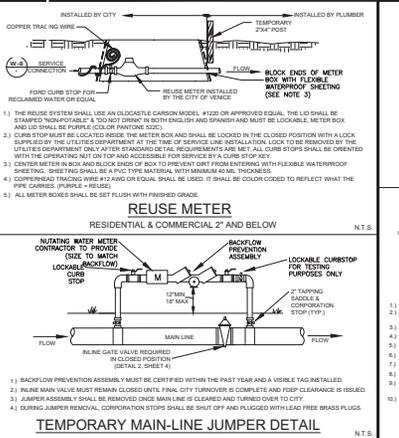
2. THE CONTRACTOR SHALL FURNISH "AS-BUILT" TOP OF PIPE ELEVATIONS OF ALL WATER MAINS EVERY 100', ALL FITTINGS AND ALL CHANGES IN GRADE.

3. 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 WITHIN 7 DAYS OF BACTERIOLOGICAL CLEARANCE TESTING FOR RECORD DRAWINGS IN ACAD 14 FORMAT. RECORD INFORMATION SHALL BE ON UNVEIL LETTER(S), USING TEXT SHAVE FILE THAT COMES WITH STANDARD CAD.

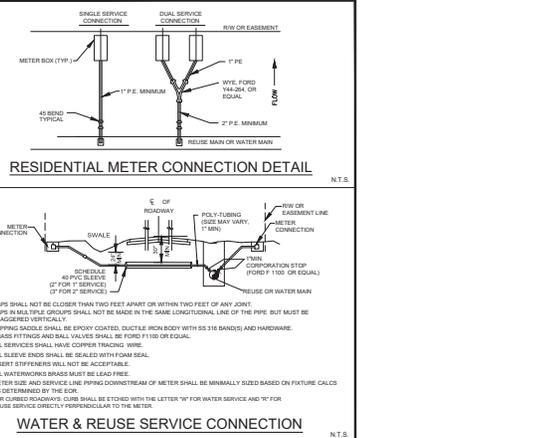
RECORD DRAWING



CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER RESIDENTIAL WATER & FIRE METER	DATE JAN. 2019 SHEET NO. W-6
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CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER REUSE METER & TEMPORARY JUMPER	DATE JAN. 2019 SHEET NO. W-7
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CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 480-2000 FAX (941) 480-3031	UTILITIES - WATER RESIDENTIAL METER & SERVICE CONNECTION	DATE JAN. 2019 SHEET NO. W-8
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RECORD DRAWING	DESIGNED BY:	DRAWN BY:	CHECKED BY:	CONTRACT ADMIN. BY:	DATE	2018-02	2018-02	2018-02	2018-02	2018-02

CLIENT: NEAL COMMUNITIES OF SOUTHWEST FLORIDA, LLC

PROJECT: CIELO SUB-PHASE 2

DATE: 2018-02

FORSEIC SEAL:

TITLE: WATER DISTRIBUTION CONSTRUCTION DETAILS

KEY NUMBER: ASB 94-95 (COV)

CROSS REFERENCE FILE NO:

PROJECT NUMBER:

SHEET NUMBER: 54 OF 75