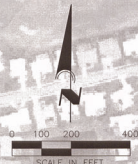


11/05/2020
DATE



NOTES:
 1. UTILITIES THAT ARE LABELLED WITH THE "City" SUFFIX ARE OWNED AND MAINTAINED BY THE CITY OF VENICE.
 2. ALL OTHER UTILITIES SHOWN ARE OWNED AND MAINTAINED BY SARASOTA COUNTY.



OFFSITE FORCE MAIN RECORD DRAWING

**SARASOTA COUNTY
 FLORIDA**

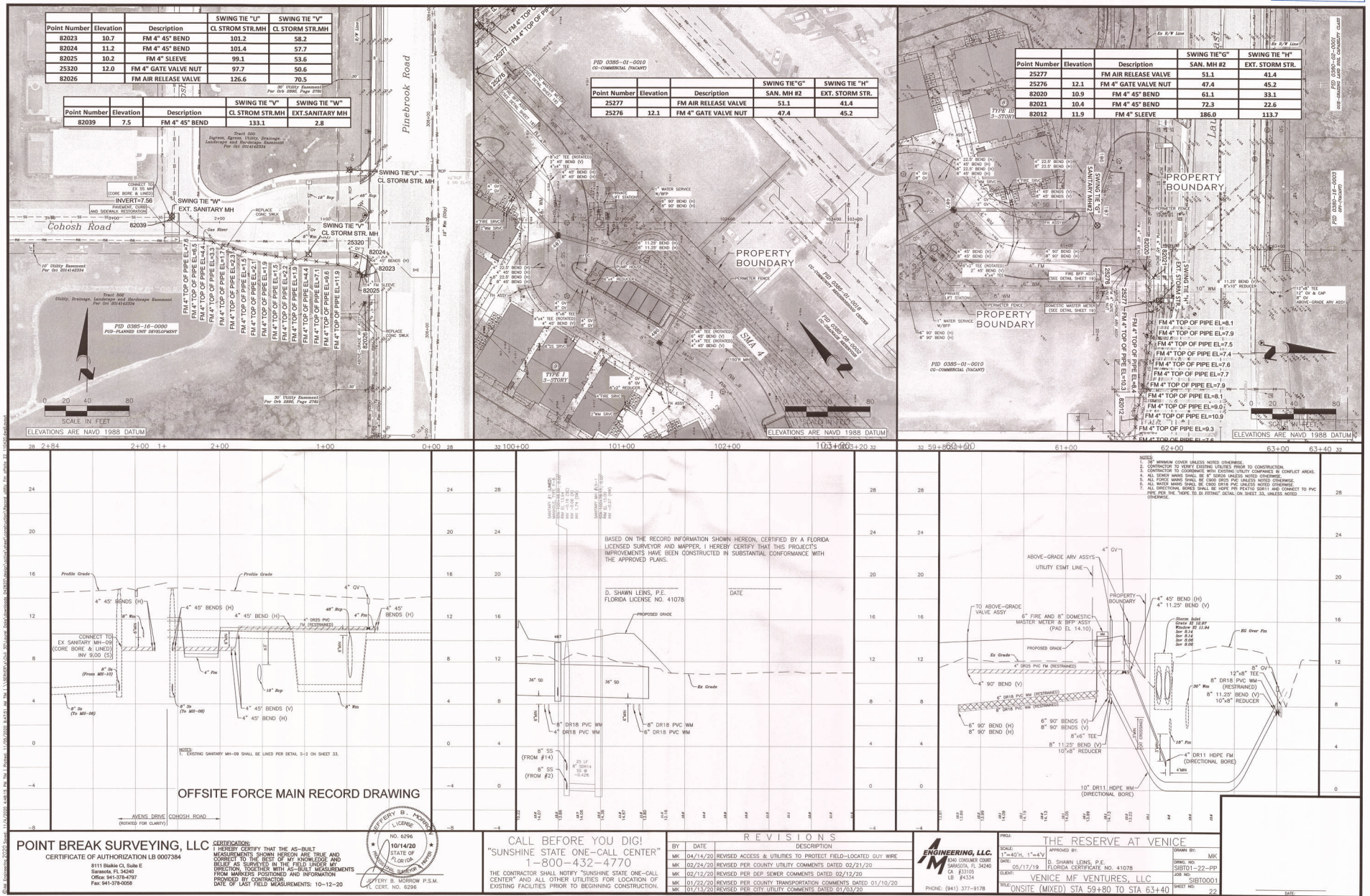
SECTION	TOWNSHIP	RANGE
32	38 S	19 E

CALL BEFORE YOU DIG!
 "SUNSHINE STATE ONE-CALL CENTER"
 1-800-432-4770
 THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE-CALL CENTER" AND ALL OTHER UTILITIES FOR LOCATION OF EXISTING FACILITIES PRIOR TO BEGINNING CONSTRUCTION.

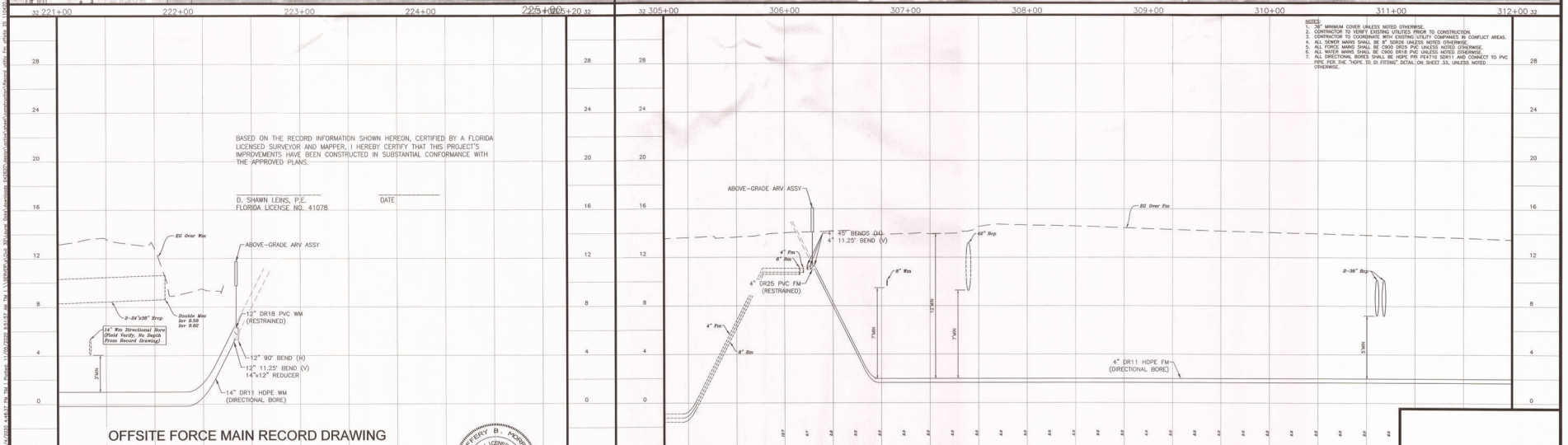
BY	DATE	DESCRIPTION
MK	04/14/20	REVISED ACCESS & UTILITIES TO PROTECT FIELD-LOCATED GUY WIRE
MK	02/24/20	REVISED PER COUNTY UTILITY COMMENTS DATED 02/21/20
MK	02/12/20	REVISED PER DEP. SEWER COMMENTS DATED 02/12/20
MK	01/22/20	REVISED PER COUNTY TRANSPORTATION COMMENTS DATED 01/10/20
MK	01/13/20	REVISED PER CITY UTILITY COMMENTS DATED 01/03/20

ENGINEERING, LLC
 3400 CONSUMER COURT
 SARASOTA, FL 34240
 CA #13165
 LB #4334
 PHONE: (941) 377-9178

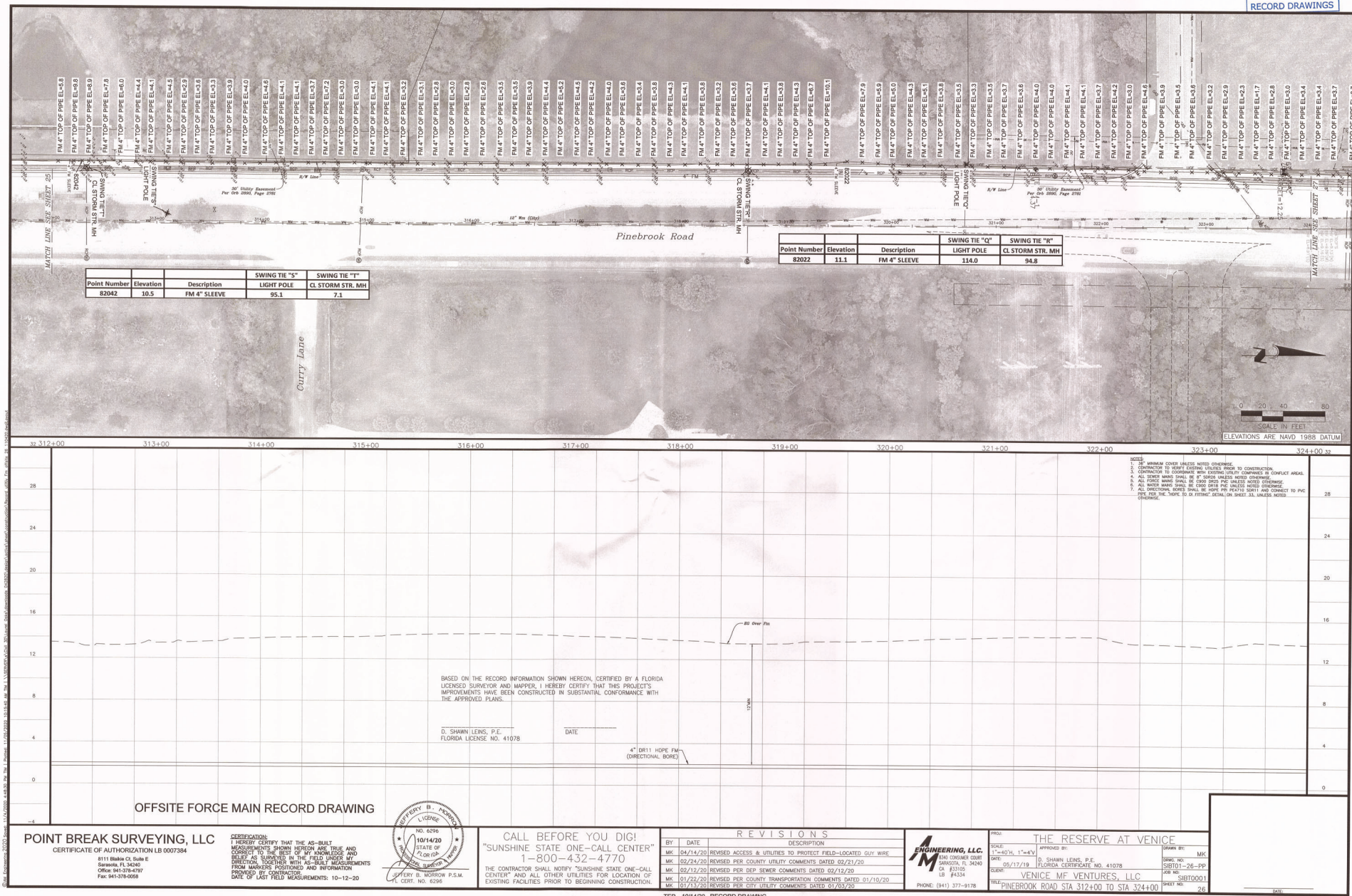
FROM	THE RESERVE AT VENICE
SCALE: 1"=200'	APPROVED BY: MKL
DATE: 05/17/19	D. SHAWN LEWIS, P.E. FLORIDA CERTIFICATE NO. 410798
CURE: VENICE, MF VENTURES, LLC	DWG. NO.: SBT01-18-MUP
TELE: MASTER UTILITY PLAN	JOB NO.: SBT0001
	SHEET NO.: 18

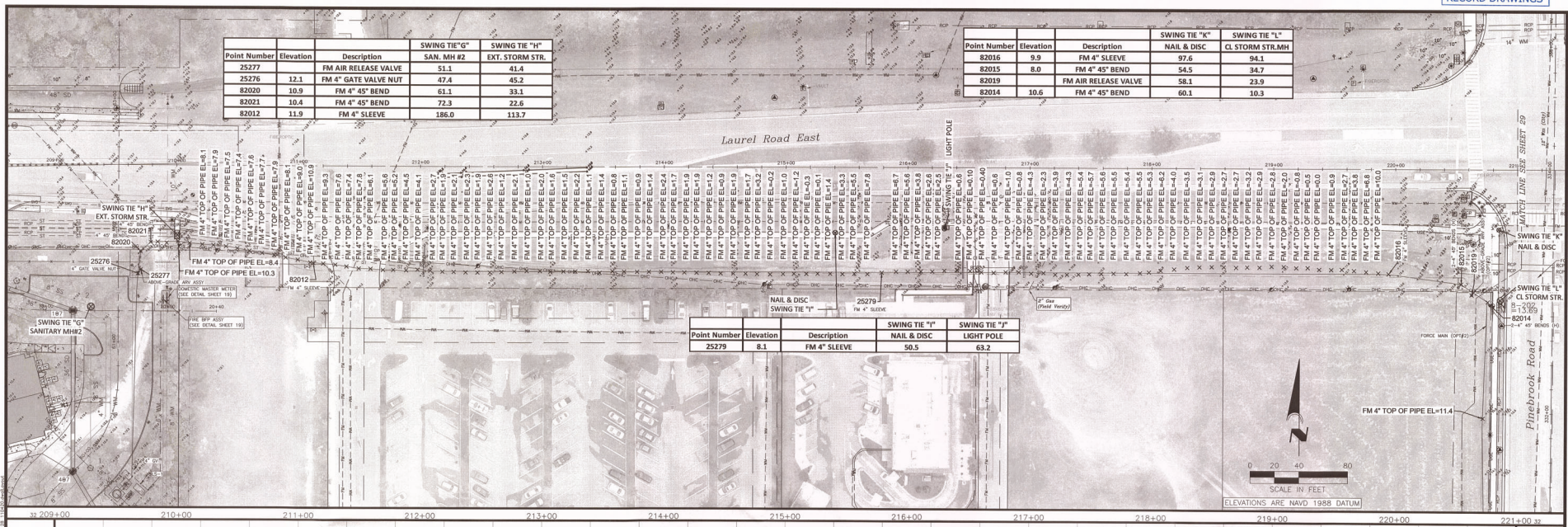


Point Number	Elevation	Description	SWING TIE "U" CL STORM STR.MH	SWING TIE "V" CL STORM STR.MH
82023	10.7	FM 4" 45° BEND	101.2	58.2
82024	11.2	FM 4" 45° BEND	101.4	57.7
82025	10.2	FM 4" SLEEVE	99.1	53.6
25320	12.0	FM 4" GATE VALVE NUT	97.7	50.6
82026		FM AIR RELEASE VALVE	126.6	70.5



POINT BREAK SURVEYING, LLC CERTIFICATE OF AUTHORIZATION LB 007384 8111 Brakke Ct, Suite E Ft. Lauderdale, FL 33428 OFFICE 941-378-4797 FAX 941-378-0558		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 THE CLIENT. DATE OF LAST FIELD MEASUREMENTS: 10-12-20		 CALL BEFORE YOU DIG! "SUNSHINE STATE ONE-CALL CENTER" 1-800-432-4770 THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE-CALL CENTER" AND ALL OTHER UTILITIES FOR LOCATION OF EXISTING FACILITIES PRIOR TO BEGINNING CONSTRUCTION.		REVISIONS <table border="1"> <thead> <tr> <th>BY</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>MK</td> <td>04/14/20</td> <td>REVISED ACCESS & UTILITIES TO PROTECT FIELD-LOCATED GUY WIRE</td> </tr> <tr> <td>MK</td> <td>02/24/20</td> <td>REVISED PER COUNTY UTILITY COMMENTS DATED 02/21/20</td> </tr> <tr> <td>MK</td> <td>02/12/20</td> <td>REVISED PER DEP SEWER UTILITIES COMMENTS DATED 02/12/20</td> </tr> <tr> <td>MK</td> <td>01/22/20</td> <td>REVISED PER COUNTY TRANSPORTATION COMMENTS DATED 01/19/20</td> </tr> <tr> <td>MK</td> <td>01/13/20</td> <td>REVISED PER CITY UTILITY COMMENTS DATED 01/03/20</td> </tr> </tbody> </table>		BY	DATE	DESCRIPTION	MK	04/14/20	REVISED ACCESS & UTILITIES TO PROTECT FIELD-LOCATED GUY WIRE	MK	02/24/20	REVISED PER COUNTY UTILITY COMMENTS DATED 02/21/20	MK	02/12/20	REVISED PER DEP SEWER UTILITIES COMMENTS DATED 02/12/20	MK	01/22/20	REVISED PER COUNTY TRANSPORTATION COMMENTS DATED 01/19/20	MK	01/13/20	REVISED PER CITY UTILITY COMMENTS DATED 01/03/20	 ENGINEERING, LLC 1406 GRANDVIEW RD SARASOTA, FL 34240 CA 0305 LB #4334 PHONE: (941) 372-8178		THE RESERVE AT VENICE SCALE: 1"=40', 1"=4'V D. SHAMIR LENS, P.E. 05/17/19 FLORIDA CERTIFICATE NO. 41078 CLIENT: VENICE MF VENTURES, LLC SITE: PINEBROOK ROAD STA 305+00 TO STA 312+00 SHEET NO: 25 DATE:	
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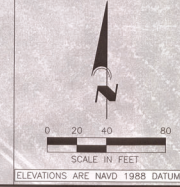




Point Number	Elevation	Description	SWING TIE "G" SAN. MH #2	SWING TIE "H" EXT. STORM STR.
25277		FM AIR RELEASE VALVE	51.1	41.4
25276	12.1	FM 4" GATE VALVE NUT	47.4	45.2
82020	10.9	FM 4" 45° BEND	61.1	33.1
82021	10.4	FM 4" 45° BEND	72.3	22.6
82012	11.9	FM 4" SLEEVE	186.0	113.7

Point Number	Elevation	Description	SWING TIE "K" NAIL & DISC	SWING TIE "L" CL STORM STR. MH
82016	9.5	FM 4" SLEEVE	97.6	34.1
82015	8.0	FM 4" 45° BEND	54.5	34.7
82019		FM AIR RELEASE VALVE	58.1	23.9
82014	10.6	FM 4" 45° BEND	60.1	10.3

Point Number	Elevation	Description	SWING TIE "I" NAIL & DISC	SWING TIE "J" LIGHT POLE
25279	8.1	FM 4" SLEEVE	50.5	63.2



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.

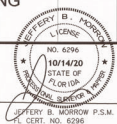
D. SHAWN LEINS, P.E.
FLORIDA LICENSE NO. 41078

OFFSITE FORCE MAIN RECORD DRAWING

POINT BREAK SURVEYING, LLC
CERTIFICATE OF AUTHORIZATION LB 0007384

8111 Blake Ct, Suite E
Sarasota, FL 34240
Office 941-378-4707
Fax 941-378-4088

CERTIFICATION
I HEREBY CERTIFY THAT THE AS-BUILT MEASUREMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS SURVEYOR IN THE FIELD AND IN THE OFFICE. I HAVE PERSONALLY AND INDEPENDENTLY VERIFIED THE MEASUREMENTS AND INFORMATION PROVIDED BY THE CONTRACTOR. DATE OF LAST FIELD MEASUREMENTS: 10-12-20



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ENGINEERING, LLC
200 CHURCH DRIVE
SARASOTA, FL 34240
P.O. BOX 43305
LA 43305
PHONE: (941) 377-9178

THE RESERVE AT VENICE
SCALE: 1"=40', 1"=4' V
APPROVED BY: D. SHAWN LEINS, P.E.
DATE: 05/17/19
FLORIDA CERTIFICATE NO. 41078
VENICE MF VENTURES, LLC
700 LAUREL ROAD (SOUTH) STA 209+00 TO STA 221+00
SHEET NO. 28

FIRE HYDRANT ASSEMBLY DETAIL N.T.S. NOTES: 1. POTABLE WATER FIRE HYDRANTS SHALL BE PAINTED "SAFETY YELLOW." 2. REUSE FIRE HYDRANTS SHALL BE PAINTED PARTIAL PURPLE AND TAGGED WITH A PERMANENT LABEL "RECYCLED WATER DO NOT DRINK." 3. HYDRANT SHALL BE MULLER SUPER CENTURION MODEL 402, AMERICAN BABY WITH BREAK-AWAY FEATURE. ALL BOLTS SHALL BE 3/8" BORE, SAFETY PLATE, BRGS. 4. RESTRAINED JOINTS SHALL BE USED BETWEEN TEE AND HYDRANT. 5. HYDRANT SHALL HAVE "OUT OF SERVICE" TAGS AND BE TAGGED UNTIL WORK IS COMPLETED BY CITY. 6. ALL WRETH HOLES SHALL BE PLUGGED. 7. HYDRANT LOCATED AT LEAST 3' OR MORE FROM ANY STORM WATER PIPE OR DETCH AND AT LEAST 5' IF MORE FROM ANY SANITARY SEWER STRUCTURE. 8. FOR CLEARANCE ISSUES, PLEASE REFER TO CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS. 9. COPPERHEAD TRACING WIRE #2 AWG OR EQUAL SHALL BE USED. 10. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES (BLUE = WATER, PURPLE = REUSE). 11. ASSEMBLY SHALL BE BEGGED BY 8" OF 2" STONE OR CRUSHED SHELL AND INSTALLED AT PROPER BURIAL DEPTH. 12. GRADELOCK CONNECTION TO BE USED BETWEEN VALVE AND HYDRANT. FURNISH BONDED EPOXY. ROTATE TO FINAL GRADE.	AUTOMATIC FLUSHING DEVICE DETAIL N.T.S. NOTES: 1. FOR ALL DEAD-END WATER MAINS. 2. AUTOMATIC FLUSHING DEVICE SHALL BE AN ECLIPSE MODEL #400. 3. CONTRACTOR SHALL PROVIDE 2" BADOER MODEL-170 RUL, METER, HIRE, REGISTER, ORION METER ENDOPT. 4. COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED.	WATER & REUSE METER & BACKFLOW PREVENTION ASSEMBLY ABOVE GROUND COMMERCIAL METER (LIMIT SINGLE SERVICE METER) (WITH BY-PASS ABOVE METER ONLY) N.T.S. NOTES: 1. EITHER 40° DEGREE OR 45° DEGREE FITTINGS MAY BE USED WITH THE REQUIRED LENGTH OF RESTRAINED JOINT FITTINGS. BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM MANUAL, AND SHALL BE INSTALLED IMMEDIATELY FOLLOWING THE METER. 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 CONCRETE PIPE PENETRATIONS SHALL BE PROTECTED WITH A PVC SLEEVE, ONE SIZE LARGER THAN REUSE PIPE. VALVES SHALL BE FULL PORTED BALL VALVES OR REUSE TYPE NON-RETURN STEEL GATE VALVE. 4. PIPE BETWEEN TAP & BACKFLOW VALVE SHALL BE 1/2" MIN. LAY LENGTH MUST BE VERIFIED PRIOR TO CONSTRUCTION OF ASSEMBLY. 5. ASSEMBLY 1" AND UP REQUIRE ONE UNION ON THE UPSTREAM RISER. 6. ASSEMBLY 1-1/2" AND SMALLER REQUIRE TWO UNIONS. 7. NO BRANCH OR TEE SERVICE CONNECTIONS OTHER THAN THE UTILITIES METER BY-PASS RETURN THE SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER. 8. THE NUMBER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITY DEPARTMENT. 9. PARALLEL BACKFLOW ASSEMBLY MAY BE PERMITTED TO ALLOW FOR UNINTERRUPTED SERVICE AND SHALL PROVIDE THE SAME PROTECTION AS PROVIDED BY THE UTILITY DEPARTMENT. 10. NO PVC SHALL BE PERMITTED ON THE CITY SIDE. 11. METERS 1-1/2" AND UP REQUIRE ONE UNION ON THE UPSTREAM RISER. 12. NO SPOOL PIECE REQUIRED FOR 3/4", 1", OR 1-1/2". 13. ALL COMMERCIAL AND MULTIFAMILY LINES METERS MUST BE ABOVE GRADE, REUSE METERS 2" AND LESS MAY BE BELOW GROUND. 14. BACKFLOW PREVENTION ASSEMBLY AND BY-PASS ARE NOT REQUIRED FOR REUSE METER ON BY-PASS. 15. BACKFLOW PREVENTION ASSEMBLY SHALL ONLY BE BY-PASSED IF A TEMPORARY RP IS INSTALLED ON BY-PASS. 16. NO BRANCH OR TEE SERVICE CONNECTIONS OTHER THAN THE UTILITIES METER BY-PASS RETURN THE SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER. 17. THE NUMBER OF RECORD SHALL SUBMIT METER SIZING CALCULATIONS BASED ON SERVICE DEMAND PER AWWA M-22 AND SUBJECT TO APPROVAL BY THE UTILITY DEPARTMENT. 18. PARALLEL BACKFLOW ASSEMBLY MAY BE PERMITTED TO ALLOW FOR UNINTERRUPTED SERVICE AND SHALL PROVIDE THE SAME PROTECTION AS PROVIDED BY THE UTILITY DEPARTMENT. 19. NO PVC SHALL BE PERMITTED ON THE CITY SIDE.	BACKFLOW PREVENTION ASSEMBLY (RESIDENTIAL, NOT MASTER METERED) N.T.S. NOTES: 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 DEPARTMENT. 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 REUSE 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 VALVE BY POLYETHYLENE.
CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER FIRE HYDRANT ASSEMBLY DATE: JAN. 2019 SHEET NO. W-2	CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER AUTOMATIC FLUSHING DEVICE DATE: JAN. 2019 SHEET NO. W-3	CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER WATER & REUSE METER & BACKFLOW DATE: JAN. 2019 SHEET NO. W-4	CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER BACKFLOW ASSEMBLY (NO MASTER METER) DATE: JAN. 2019 SHEET NO. W-5
RESIDENTIAL WATER & FIRE METER (RESIDENTIAL USE ONLY) N.T.S. NOTES: 1. THE POTABLE WATER SYSTEM SHALL USE AN OLCASTLE CARBON MODEL #1221 BLACK PLASTIC METER BOX WITH METAL READER AND BLACK SOLID ROOF OR APPROVED EQUAL, FOR BOTH WATER 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 #2 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 LOCATED 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 STOP SHALL BE LOCATED IN THE OPPOSITE 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 SPINNALES INCORPORATED INTO DOMESTIC RESIDENTIAL PLUMBING SHALL BE SERVICED BY AN ELECTRONIC WATER METERING MPFA 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 UTILITY 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 FIRE WATER SERVICE POLYURETHANE.	RESIDENTIAL METER CONNECTION DETAIL N.T.S. NOTES: 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 3/8" BANDS AND HARDWARE. 4. BRASS FITTINGS AND BALL VALVES SHALL BE FOR F1100 OR EQUAL. 5. ALL SLEEVES SHALL BE SEALED WITH FOAM SEAL. 6. INSERT FITTINGS SHALL NOT BE ACCEPTABLE. 7. ALL WATERWORKS BRASS MUST BE LEAD FREE. 8. METER SIZE AND SERVICE LINE PIPING DOWNSTREAM OF METER SHALL BE MINIMALLY SIZED BASED ON FUTURE CALCS AS DETERMINED BY THE EOR. 9. FOR CURVED DOWNSTREAM CURB SHALL BE COTTED WITH THE LETTER "W" FOR WATER SERVICE AND "R" FOR REUSE SERVICE DIRECTLY PERPENDICULAR TO THE METER.	FIRE SERVICE BACKFLOW ASSEMBLY SIZE 2" - 10" N.T.S. NOTES: 1. ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL, AND HYDRAULIC RESEARCH AND/OR 1047 OR 1048 ASSE AS APPLICABLE. 2. 45° FITTINGS MAY BE SUBSTITUTED FOR 90° FITTINGS. 3. PIPE BETWEEN TAP & BACKFLOW VALVE SHALL BE 1/2" MIN. LAY LENGTH MUST BE VERIFIED PRIOR TO CONSTRUCTION OF ASSEMBLY. 4. IF ITEMS OFT FOR POTABLE SERVICE, INSTALL INDICATOR VALVE BETWEEN TEE FOR POTABLE SERVICE AND FIRE SERVICE BACKFLOW ASSEMBLY. 5. ASSEMBLY SHALL BE PAINTED RED WITH ALUMINUM EPOXY OR POLYURETHANE BASED PAINT, EXCEPT FOR STAINLESS STEEL PARTS. 6. VALVE ASSEMBLIES SHALL MEET AWWA 94 REQUIREMENTS AND INDICATOR VALVES SHALL BE PROVIDED. 7. FOR CLEARANCE ISSUES, PLEASE REFER TO THE CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS. 8. FOR FIRE PROTECTION SYSTEMS EQUIPPED WITH A FIRE PUMP, THE PIPE BETWEEN THE CHECK VALVE AND THE OUTSIDE CONNECTION SHALL BE EQUIPPED WITH AN APPROVED BALL VALVE. 9. BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM. 10. IF TEE INLET CONNECTION MAY BE REQUIRED FOR PIPE SIZES LESS THAN 8".	FIRE SERVICE VALVE INDICATOR POST N.T.S. NOTES: 1. INDICATOR POST REQUIRED WHEN FIRE SERVICE POINT OF CONNECTION IS ON A POTABLE WATER SERVICE. 2. INSTALL INDICATOR POST AND VALVE BETWEEN TEE FOR POTABLE SERVICE AND FIRE SERVICE BACKFLOW ASSEMBLY. 3. AMERICAN FLOW CONTROL #271 INDICATOR POST OR EQUIVALENT SHALL BE INSTALLED. 4. UNDERSTANDING LABORATORIES LISTED AND FACTORY MATERIAL RESEARCH APPROVED. 5. FOR USE WITH VALVES WITH O-RING STEM SEALS. 6. ALL EXPOSED EXTERIOR SURFACES COATED WITH THINCO 146 EPOXY AND TOP COATED WITH "TREE" ENAMEL PER MANUFACTURER'S STANDARD PAINT.
CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER RESIDENTIAL WATER & FIRE METER DATE: JAN. 2019 SHEET NO. W-6	CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER RESIDENTIAL METER & SERVICE CONNECTION DATE: JAN. 2019 SHEET NO. W-8	CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER FIRE SERVICE BACKFLOW ASSEMBLY DATE: JAN. 2019 SHEET NO. W-9	CITY OF VENICE ENGINEERING DEPARTMENT UTILITIES - WATER FIRE SERVICE VALVE INDICATOR POST DATE: JAN. 2019 SHEET NO. W-10

OFFSITE FORCE MAIN RECORD DRAWING

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MK	01/22/20	REVISED	PER COUNTY TRANSPORTATION COMMENTS DATED 01/22/20
MK	07/17/20	REVISED	PER CITY UTILITY COMMENTS DATED 07/07/20

THE RESERVE AT VENICE

SCALE: 1/4" = 1'-0"

DATE: 05/17/19

APPROVED BY: D. SHAWN LEIS, P.E.
FLORIDA CERTIFICATE NO. 41978

VENICE MF VENTURES, LLC
WATER AND SEWER DETAILS

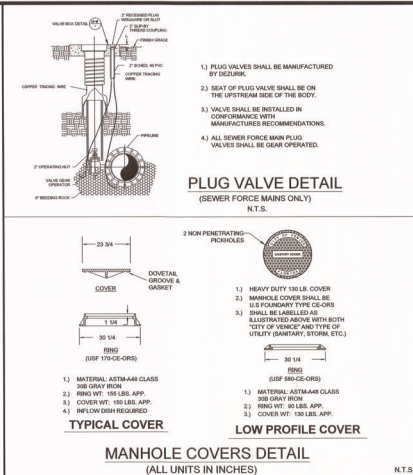
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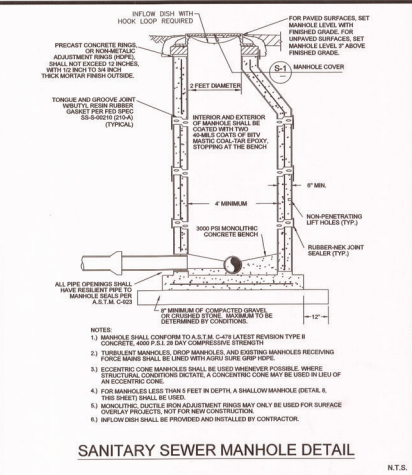
CHECKED BY: MK

DATE: 05/17/19

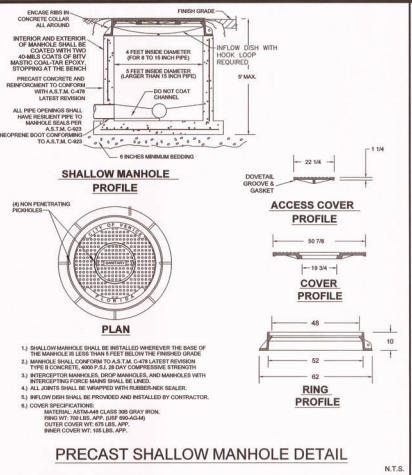
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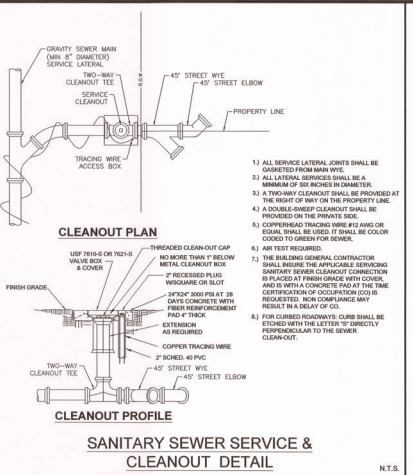
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - SEWER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	PLUG VALVE & MANHOLE COVERS	SHEET NO. S-1



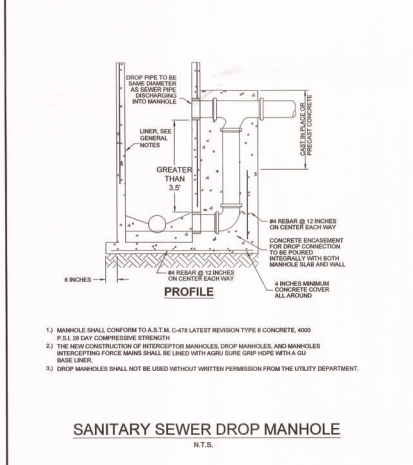
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - SEWER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	SANITARY SEWER MANHOLE	SHEET NO. S-2



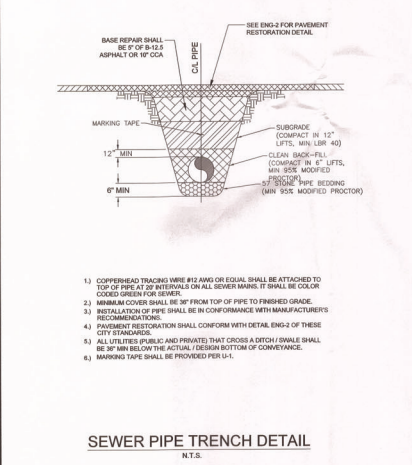
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - SEWER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	PRECAST SHALLOW MANHOLE	SHEET NO. S-3



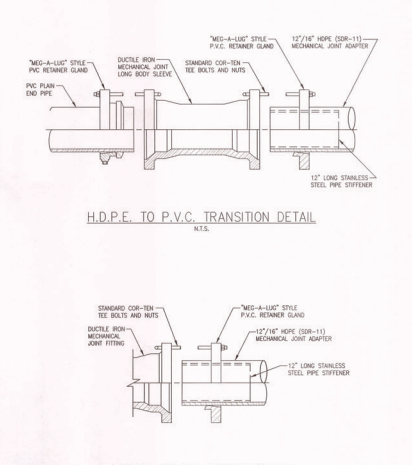
CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - SEWER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	SEWER SERVICE & CLEANOUT	SHEET NO. S-4



CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - SEWER	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	SANITARY DROP MANHOLE	SHEET NO. S-5



CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	SEWER PIPE TRENCH	SHEET NO. S-6



CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - GENERAL	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34268 (941) 490-2028 FAX (941) 490-3031	SEWER PIPE TRENCH	SHEET NO. S-6

OFFSITE FORCE MAIN RECORD DRAWING

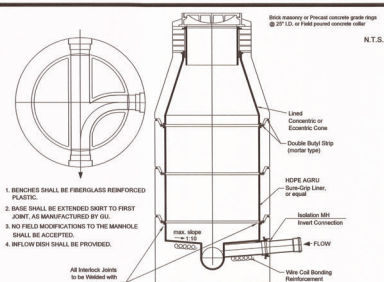
CALL BEFORE YOU DIG!
"SUNSHINE STATE ONE-CALL CENTER"
1-800-432-4770
THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE ONE-CALL CENTER" AND ALL OTHER UTILITIES FOR LOCATION OF EXISTING FACILITIES PRIOR TO BEGINNING CONSTRUCTION.

BY	DATE	REVISIONS
RECORD DRAWING		
04/14/20	PROVIDED ACCESS & UTILITIES TO PROTECT FIELD-LOCATED GUY WIRE	
02/24/20	REVISED PER COUNTY UTILITY COMMENTS DATED 02/21/20	
02/12/20	REVISED PER DEP SEWER COMMENTS DATED 02/12/20	
01/22/20	REVISED PER COUNTY TRANSPORTATION COMMENTS DATED 01/22/20	
01/13/20	REVISED PER GUY UTILITY COMMENTS DATED 01/13/20	

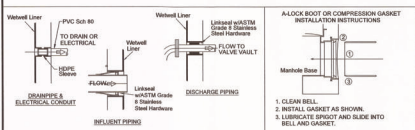
ENGINEERING, LLC
6340 CONSUMER COURT
SARASOTA, FL 34239
CA #33039
PHONE: (941) 377-9178

THE RESERVE AT VENICE
APPROVED BY:
DATE: 05/17/19
D. SHAWN LEWIS, P.E.
FLORIDA CERTIFICATE NO. 41078
VENICE, FL VENTURES, LLC
WATER AND SEWER DETAILS
SHEET NO. 33

DATE: _____



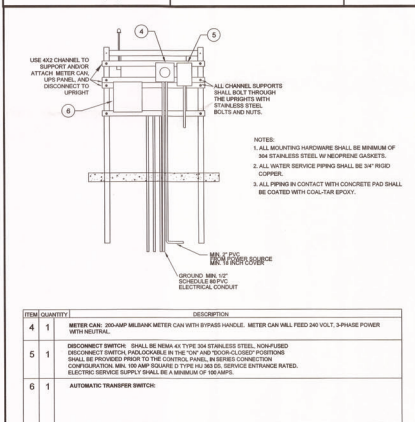
COMPLETELY LINED ISOLATION MANHOLE DETAIL



BOOT DETAILS

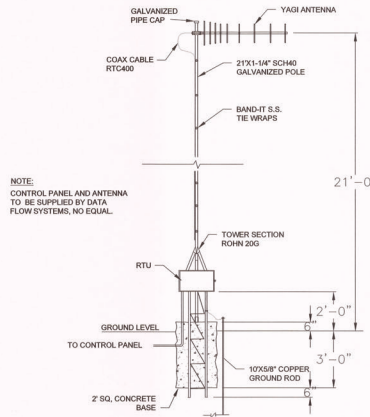
ISOLATION MH INVERT
CONNECTION N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT City Incorporated on the 27th March	UTILITIES - LIFT STATION	DATE JAN. 2019
	ISOLATION MANHOLE & BOOT DETAILS	SHEET NO. LS-3



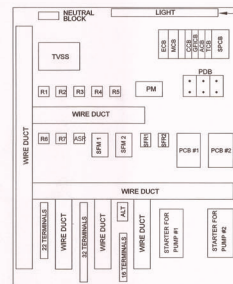
LIFT STATION CONTROL PANEL BACK

CITY OF VENICE ENGINEERING DEPARTMENT WPA: Incompleteness in the old format 401 WEST VENICE AVE. VENICE FL 34295 (941) 486-2626 FAX (941) 486-3031	UTILITIES - LIFT STATION	DATE JAN. 2019
	CONTROL PANEL BACK	SHEET NO. LS-7



TELEMETRY CONTROL PANEL & ANTENNA

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2628 FAX (941) 486-3031	UTILITIES - LIFT STATION	D JAN.
	LIFT STATION TELEMETRY	SHEET LS

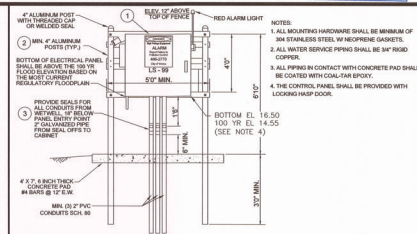


GENERAL ELECTRICAL NOTES

1. ALL POWER DISTRIBUTION, MOTOR CIRCUIT BREAKERS, MOTOR THERMAL UNITS, AND CROSS-LINE STARTERS WILL BE SIZED PER PUMP MANUFACTURER RECOMMENDATIONS AND NEC.
2. MOTOR STARTERS WILL BE SQUARE D CLASS 895L, OPEN FRAME, AND CROSS-LINE WITH A 120 VOLT C AND OVERLOAD BLOCKS. MOTOR STARTERS SHALL BE NEMA SIZE 1, AS A MINIMUM.
3. THE DIVERSIFIED ELECTRONICS PHASE AND VOLTAGE MONITOR WILL DE-ENERGIZE THE 120 VOLT AC CONTROL CIRCUIT AND ENERGIZE THE 120 VOLT AC ALARM CIRCUIT UPON PHASE AND VOLTAGE LOSS.
4. POWER TRANSFORMER TAP POSITION WILL BE MONITORED AND THE TRANSFORMER WILL BE CUSTODIALLY RUN AT DIFFERENT 120 VOLT PHASES. THE PHASE MONITOR WILL AUTOMATICALLY RESET VOLTAGE AND PHA FAILURES TO NORMAL CONDITIONS ONCE A NORMAL CONDITION IS DETECTED.

BACKPLATE LAYOUT

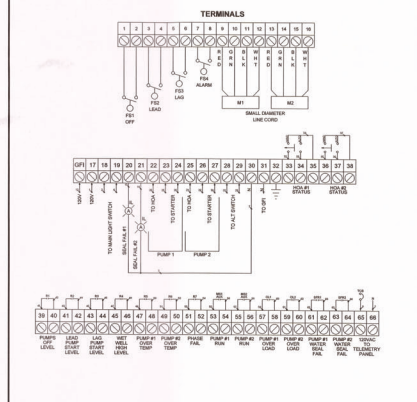
CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE FL 34295 (941) 480-2626 FAX (941) 480-3031	UTILITIES - LIFT STATION	DATE JAN.
	BACKPLATE LAYOUT	SHEET LS

[illegible]

- [illegible]

LIFT STATION CONTROL PANEL FRONT

CITY OF VENICE ENGINEERING DEPARTMENT THIS DOCUMENT IS THE PROPERTY OF THE CITY OF VENICE. IT IS TO BE RETURNED TO THE CITY OF VENICE ENGINEERING DEPARTMENT UPON REQUEST.	UTILITIES - LIFT STATION CONTROL PANEL FRONT	DATE JAN. 2019
		SHEET NO. LS-6



TERMINAL STRIP DIAGRAM

CITY OF VENICE ENGINEERING DEPARTMENT THIS DOCUMENT IS NOT FOR SALE	UTILITIES - LIFT STATION TERMINAL STRIP DIAGRAM	DATE JAN. 2019 SHEET NO. LS-10
	401 WEST VENICE AVE. VENICE FL 34285 (941) 486-2626 FAX (941) 486-3031	

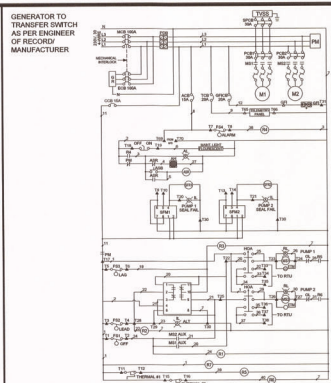
OFFSITE FORCE MAIN RECORD DRAWING

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EXISTING FACILITIES PRIOR TO BEGINNING CONSTRUCTION.

R E V I S I O N S		
BY	DATE	DESCRIPTION
		RECORD DRAWING
MK	04/14/20	REVISED ACCESS & UTILITIES TO PROTECT FIELD-LOCATED GUY WIRE
MK	02/24/20	REVISED PER COUNTY UTILITY COMMENTS DATED 02/21/20
MK	02/12/20	REVISED PER DEP SEWER COMMENTS DATED 02/12/20
MK	01/22/20	REVISED PER COUNTY TRANSPORTATION COMMENTS DATED 01/10/20
MK	01/13/20	REVISED PER CITY UTILITY COMMENTS DATED 01/03/20



PROJECT: THE RESERVE AT VENICE		
SCALE: N/A	APPROVED BY: D. SHAWN LEINS, P.E. FLORIDA CERTIFICATE NO. 41078	DRAWN BY: MK
DATE: 05/17/19		DRWG. NO: SIBT01-34-WSD
CLIENT: VENICE MF VENTURES, LLC		JOB NO: SIBT00001
TITLE: WATER AND SEWER DETAILS		SHEET NO: 3



CONTROL SCHEMATIC DIAGRAM

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - LIFT STATION	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 480-3028 FAX (941) 480-3031	CONTROL SCHEMATIC DIAGRAM	SHEET NO. LS-11

CONTROL PANEL

QTY.	ABBV.	DESCRIPTION	MANUFACTURER, PART NO.
1	ENC	ENCLOSURE, 34 1/2" NEMA 3R12	HOFFMAN, ABBV:205LP, 34 1/2" NEMA 3R12
1	MCB	MAIN CIRCUIT BREAKER	S.O.D. Q001100*
1	ECB	EMERGENCY CIRCUIT BREAKER	S.O.D. Q001100*
2	PCB1,2	PUMP CIRCUIT BREAKER	S.O.D. Q00100*
1	SPCB	SURGE PROTECTOR CIRCUIT BREAKER	S.O.D. Q00100*
1	CCB	CONTROL CIRCUIT BREAKER	S.O.D. Q00115
1	QPCB	GFI CIRCUIT BREAKER	S.O.D. Q00135
1	ACB	ALARM CIRCUIT BREAKER	S.O.D. Q00115
1	TCD	TELEMETRY CIRCUIT BREAKER	S.O.D. Q00135
2	MS1,2	MOTOR STARTER	S.O.D. 8336 (SIZE 1 MIN.)
6	OL	OVERLOAD HEATER	S.O.D. 8-20*
1	GR	GENERATOR RECEPTACLE	RUSSELL STOLL, J08B144FR
1	PM	PHASE MONITOR	OVERSIPED S.A. 230AL4*
2	ETM	ELAPSED TIME METER	SMPCON, 11051
1	ALT	ALTERNATOR	OVERSIPED ABB-120-ADA
1	AM	ALARM HORN	WHISLOCK, HNE-211-1155
1	AL	ALARM LIGHT - STROBE	TOMAR, 4855-120-RED
1	ASR	ALARM SILENCE RELAY	S.O.D. 8501 KP22 V30
1	ASB	ALARM SILENCE BUTTON	S.O.D. 8501 SRS1185
1		MAINTENANCE LIGHT SWITCH	S.O.D. 8501 SRS1185
1	AL	ALTERNATOR SWITCH	S.O.D. 8501 SRS1185
1	HCA	HAND OFF AUTO SWITCH	S.O.D. 8501 SRS1185
2	RL	RUN LIGHT	S.O.D. 8501 SRS1185
3	IL	INDICATING LIGHT	S.O.D. 8501 SRS1185
1	QFI	GFI RECEPTACLE	HUBBELL, GF20L
2	SPB1,2	SPRING BREAKER	SPIC, 14048L
2	SPB1,2	CONTROL RELAY	S.O.D. 8501 KP22 V30
7	RI-7	CONTROL RELAY	S.O.D. 8501 KP22 V30
1	TVSS	SURGE PROTECTOR	INNOVATIVE TECHNOLOGY PTX300 30101-340-50-H40040-30
1		MAINTENANCE LIGHT (FLUORESCENT)	HOFFMAN, A-17 18W/8-R #F12RC
3		DM FAN	ABB, DUNSTON

NOTES:
1) * = SIZE AS REQUIRED PER HP.
2) MIN. #14 AWG THHN
3) ** = SIZE AS REQUIRED PER VOLTAGE.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - LIFT STATION	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 480-3028 FAX (941) 480-3031	CONTROL PANEL BILL OF MATERIALS	SHEET NO. LS-12

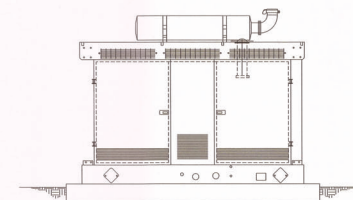
UPS PANEL

QTY.	ABBV.	DESCRIPTION	MANUFACTURER, PART NO.
1	ENC	ENCLOSURE, 34 1/2" NEMA 3R12	CUSTOM EQUIPMENT, 24X20X18-L
1	FAN	CIRCULATING FAN	COFFMAN, A-400PL
1	T-TEST	TERMINAL TEST	PERMANENT, FL200
1	F1	FUSE	PERMANENT, FL200
1	SR	UPS RECEPTACLE	FRIDGEN, CONTACT, 2000860

NOTES:
1) * = SIZE AS REQUIRED PER HP.
2) MIN. #14 AWG THHN
3) ** = SIZE AS REQUIRED PER VOLTAGE.

SPARE PARTS

QTY.	ABBV.	DESCRIPTION	MANUFACTURER, PART NO.
1	MCB	MAIN CIRCUIT BREAKER	S.O.D. Q001100*
2	PCB1,2	PUMP CIRCUIT BREAKER	S.O.D. Q00100*
2	MS1,2	MOTOR STARTER	S.O.D. 8336 (SIZE 1 MIN.)
1	PM	PHASE MONITOR	OVERSIPED S.A. 230AL4*
1	TVSS	SURGE PROTECTOR	INNOVATIVE TECHNOLOGY PTX300 30101-340-50-H40040-30
1	PUMP	HYDRAULIC ON ABB, PER SPEC	
1	WAFER	1/8" STAINLESS STEEL, PER SPEC	
1	WEAR RING	PER SPEC	
1		FLOAT LEVEL SWITCHES (1 SET)	ANCHOR SCIENTIFIC INC., PER SPEC



- PAD SIZE AND GENERATOR SIZE / MODEL TO BE SPECIFIED ON PLANS AND APPROVED BY UTILITIES DIRECTOR.
- GENERATORS REQUIRED AT ALL NEW LIFT STATIONS UNLESS UTILITIES DIRECTOR APPROVES NOT PLACING.

EMERGENCY GENERATOR

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT	UTILITIES - LIFT STATION	DATE JAN. 2019
401 WEST VENICE AVE. VENICE, FL 34086 (941) 480-3028 FAX (941) 480-3031	EMERGENCY GENERATOR	SHEET NO. LS-14

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R E V I S I O N S		
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ENGINEERING, LLC.	THE RESERVE AT VENICE
1400 CONSUMER COURT VENICE, FL 34086 CA #12105 PA #434	APPROVED BY: D. SHAWN LENS, P.E. FLORIDA CERTIFICATE NO. 41078
PHONE: (941) 377-9178	VENICE, FL 34086 WATER AND SEWER DETAILS

DATE	SCALE	DATE	SCALE	DATE	SCALE
05/17/19	N/A	05/17/19	N/A	05/17/19	N/A
05/17/19	N/A	05/17/19	N/A	05/17/19	N/A
05/17/19	N/A	05/17/19	N/A	05/17/19	N/A