

WATER AND SEWER RECORD DRAWING

APPROVED
NOV 03 2020
RECORD DRAWINGS

**MPS DEVELOPMENT AND CONSTRUCTION, LLC
333 SOUTH TAMiami TRAIL, SUITE 205
VENICE, FL. 34285**

LOTS 6,7,8 AND 9, BLOCK 40
VENICE GULF VIEW SECTION
PER RECORDED PLAT IN PLAT BOOK 2, PAGES 77 &
77A, PUBLIC RECORDS OF SARASOTA COUNTY, FLORIDA
CITY OF VENICE, FLORIDA.



SECTION 12 TOWNSHIP 39S RANGE 18E

LOTS 6,7,8, & 9 PARCEL ID NO. = 0176090034
LOTS 6,7,8, & 9 PARCEL PROPERTY ADDRESS = 521 MENENDEZ ST #1, VENICE FL 34268

SITE AREA

31,250 S.F. = 0.717 AC-ft

INFRASTRUCTURE IMPROVEMENTS:

LINEAR FEET OF POTABLE WATER SERVICE	=	176 FT
LINEAR FEET OF POTABLE WATER MAIN	=	0 FT
LINEAR FEET OF SANITARY SEWER LATERAL	=	38 FT
LINEAR FEET OF FORCE MAIN	=	0 FT
NUMBER OF MANHOLES	=	1 UNITS

NOTES

2. ALL WORK CONDUCTED IN THE ARAPAHO ROAD S.E. RIGHT-OF-WAY (RDW) WILL REQUIRE THE ISSUANCE OF A RDW PERMIT FROM THE CITY OF VENTURE.
3. TREE REMOVAL PERMIT MUST BE OBTAINED FROM SARASOTA COUNTY NATURAL RESOURCES DEPARTMENT. PERMIT MUST BE APPLIED FOR PRIOR TO OBTAIN PERMIT.
4. 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 MARSHALLS ASSOCIATION (SFMAS). CONSTRUCTION SITE INFORMATION MUST BE FILLED WITH 24-HOUR CONTACT INFORMATION.
5. PUBLIC IMPROVEMENTS ARE:
 - a. SANITARY SEWER MAIN
 - b. SANITARY SEWER MANHOLE
 - c. SANITARY SEWER LATERAL
6. PRIVATE IMPROVEMENTS ARE ON-SITE SANITARY SEWER SERVICE AND WATER SERVICE.
7. ALL IMPROVEMENTS SHALL BE CONSTRUCTED TO MEET THE LATEST PERMIT REQUIREMENTS OF THE CITY OF VENTURE AND THE STATE OF FLORIDA.
8. IF VARIATIONS ARE POSTED ON N.A.V.D. 1988

CITY OF VENICE NOTES

1. ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, SHALL MEET CITY OF VENICE STANDARDS.
2. CONTACT PUBLIC WORKS SOLID WASTE DIVISION (941-486-2422) FOR APPROVAL OF DUMPSTER LOCATION AND LAYOUT PRIOR TO CONSTRUCTION.

UTILITIES

TECO PEOPLES GAS
702 NORTH FRANKLIN
P.O. BOX 2562
TAMPA, FL.
33601-2562

VERIZON ENGINEERING
1701 RINGLING BOULEVARD
SARASOTA, FL 34230

FLORIDA POWER & LIGHT
CONSTRUCTION SERVICES
5657 SOUTH McINTOSH ROAD
SARASOTA, FL 34230

COMCAST CABLEVISION OF WEST FLORIDA, INC.
5205 FRUITVILLE ROAD
SARASOTA, FL 34232

WATER AND SEWER
CITY OF VENICE
401 WEST VENICE AVE.
VENICE, FL. 34285

NO. DATE BY REVISIONS

1 9-17-20 SAG REVISED COVER SHEET TO RECORD DRAWINGS

PROFESSIONAL ENGINEERING RESOURCES, INC.
10225 ULMERTON ROAD, SUITE 4D
LARGO, FL. 33771 (727) 408-5207

FLORIDA ENGINEERING & SURVEYING, LLC
631 N. TAMiami TRAIL
NOKOMIS, FLORIDA 34275 (941) 485-3100

HAZELTINE NURSERIES, INC.
P.O. BOX 236
VENICE, FL. 34292 (941) 485-1272

1. COVER SHEET
- ~~2. EXISTING CONDITION PLAN~~
3. WATER AND SEWER PLAN
- ~~4. SANITARY SEWER PLAN AND PROFILE~~
- ~~5. GENERAL AND CONSTRUCTION NOTES~~
- ~~6. CITY OF VENICE PAVING, GRADING AND DRAINAGE DETAILS~~
- 7-8. CITY OF VENICE WATER AND SEWER DETAILS
- ~~9-10. PAVING, GRADING AND DRAINAGE DETAILS~~

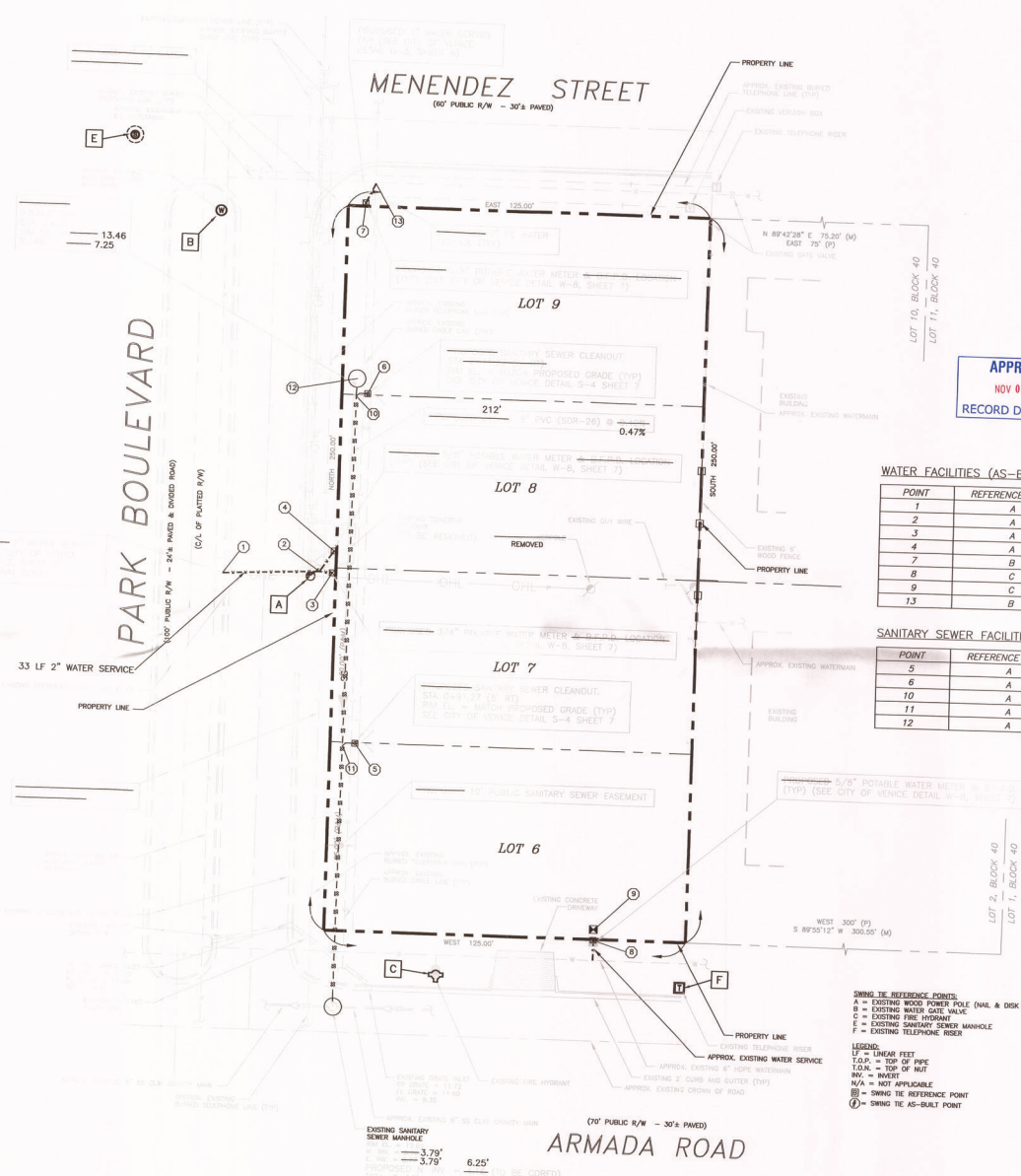
PRINT DATE
NOV 02 2020

PAUL V. SHERMA, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 35628

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PAUL V. SHERMA, ON THE DATE ADJACENT TO THE SEAL USING A SIGN AUTHENTICATION CODE. PRIOR COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. 12-12-11

APPROVED

PAUL V. SHERMA, REG. NO. 35628

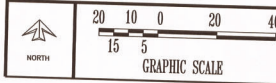


NOTES:

LEGEND

PROPOSED	EXISTING
WATER MAIN	WATER MAIN
FIRE MAIN	FIRE MAIN
TEMPORARY WATER MAIN	TEMPORARY WATER MAIN
REDUCER	REDUCER
TEMPORARY VALVE	TEMPORARY VALVE
FIRE HYDRANT	FIRE HYDRANT
WATER METER (Bolt & Box)	WATER METER (Bolt & Box)
FIRE DEPARTMENT CONNECTION	FIRE DEPARTMENT CONNECTION
SHAW-WALKER VALVE	SHAW-WALKER VALVE
WATER METER	WATER METER
SHAW-WALKER VALVE	SHAW-WALKER VALVE
SHAW-WALKER VALVE	SHAW-WALKER VALVE
SHAW-WALKER VALVE	SHAW-WALKER VALVE
CLEAN OUT	CLEAN OUT
STOP VALVE	STOP VALVE
ROOF DRAIN	ROOF DRAIN
UNDERGROUND	UNDERGROUND
JUNCTION BOX	JUNCTION BOX
UNDERGROUND	UNDERGROUND
OUTFALL STRUCTURE	OUTFALL STRUCTURE
METERED END SECTION (M.E.S.)	METERED END SECTION (M.E.S.)
TOP OF DRAIN	TOP OF DRAIN
FENCE OR WALL	FENCE OR WALL
EXCISEMENT OR SETBACK	EXCISEMENT OR SETBACK
TRAFFIC FLOW ARROW	TRAFFIC FLOW ARROW
PAVED/PAVING DRIVE	PAVED/PAVING DRIVE
H.P. OR CHANGE IN GRADE	H.P. OR CHANGE IN GRADE
ELEVATION	ELEVATION
CONTOUR	CONTOUR
U.S. ELECTRICAL LINE	U.S. ELECTRICAL LINE
ONE WAY	ONE WAY
DETECTABLE WARNING	DETECTABLE WARNING
T.O.W.	T.O.W.

CONTRACTOR TO CALL "SUNSHINE 811" AT 811 OR 1-800-432-4770, 48 hrs. PRIOR TO ANY CLEARING OR CONSTRUCTION FOR EXISTING UTILITY LOCATIONS.



APPROVED
NOV 03 2020
RECORD DRAWINGS

WATER FACILITIES (AS-BUILT)

POINT	REFERENCE POINT	DISTANCE	REFERENCE POINT	DISTANCE	ELEVATION	DESCRIPTION
1	A	30.31'	B	124.88'	10.80'-T.O.P.	2" WATER SERVICE TAP
2	A	3.51'	B	129.00'	11.74'-T.O.P.	2" WYE
3	A	7.58'	B	130.65'	12.73'-LID	WATER METER
4	A	11.87'	B	123.69'	12.80'-LID	WATER METER
7	B	49.94'	E	82.81'	13.39'-LID	WATER METER
8	C	55.61'	F	33.98'	14.03'-LID	WATER METER
9	C	56.67'	F	35.72'	N/A	WATER METER
13	B	54.19'	E	84.69'	11.30'-T.O.P.	1" WATER SERVICE TAP

SANITARY SEWER FACILITIES (AS-BUILT)

POINT	REFERENCE POINT	DISTANCE	REFERENCE POINT	DISTANCE	ELEVATION	DESCRIPTION
5	A	59.68'	C	84.08'	9.25'-INV., 13.52'-RIM	SANITARY CLEANOUT
6	A	66.07'	B	80.84'	9.42'-INV., 13.98'-RIM	SANITARY CLEANOUT
10	A	64.14'	B	79.08'	INV. NOT ACCESSIBLE	8" WYE
11	A	59.43'	C	85.28'	INV. NOT ACCESSIBLE	8" WYE
12	A	70.00'	B	74.52'	7.25'-INV., 13.46'-RIM	SANITARY MANHOLE

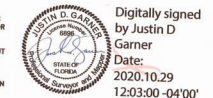
SURVEYORS NOTES:

THIS IS NOT A BOUNDARY SURVEY.
THE SURVEY SHOWN HEREON WAS PREPARED TO SHOW THE UTILITIES CONSTRUCTED ON THE SUBJECT PROPERTY, SHOWN IN BOLD.
SYMBOL CHARACTERS AND OR POSITIONS MAY NOT BE DEPICTED TO SCALE AND ARE FOR CLARIFICATION PURPOSES.
THE AS-BUILT SURVEY SHOWN HEREON IS BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM (NAD) 1983, 2011 ADJUSTMENT, UTILIZING THE FLORIDA DEPARTMENT OF TRANSPORTATION'S (FDOT) FLORIDA PERMANENT REFERENCE NETWORK (FPRN).
ELEVATIONS SHOWN HEREON ARE BASED ON THE PLANS PROVIDED BY FLORIDA ENGINEERING & SURVEYING, LLC, ALL ELEVATIONS REFERENCE N.A.V.D. 1988.
SURVEY FIELD DATE: 8/21/2020, FILE #19-04-230.
REVISION: 8/21/2020, CITY OF VENICE COMMENTS, JDO
REVISION: 8/16/2020, CITY OF VENICE COMMENTS, JDO
REVISION: 9/30/2020, CITY OF VENICE COMMENTS, JDO

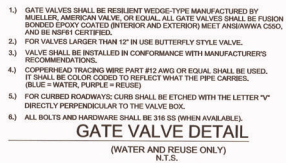
UTILITY AS-BUILT RECORD DATA PROVIDED BY:

FLORIDA ENGINEERING & SURVEYING, LLC
CA #30375 LB #8024
831 N. TAMiami TRAIL, SUITE 100, NOKOMIS, FLORIDA 33425
TEL: (941) 485-3100
FAX: (941) 485-3107
www.flengineeringandsurveying.com

I HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON WAS PREPARED UNDER MY DIRECT SUPERVISION AND IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYS, CHAPTER 91-17, FLORIDA ADMINISTRATIVE STATUTES, SURVEY SHOWN HEREON NOT VALID WITHOUT LICENSED SURVEYOR AND SEAL OF A FLORIDA SURVEYOR. THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA SURVEYOR MUST BE ATTACHED TO THIS DOCUMENT. THE SURVEYOR'S SIGNATURE AND SEAL OF A FLORIDA SURVEYOR MUST BE ATTACHED TO THIS DOCUMENT. THE SURVEYOR'S SIGNATURE AND SEAL OF A FLORIDA SURVEYOR MUST BE ATTACHED TO THIS DOCUMENT.
OCTOBER 29, 2020.



CLIENT: MPS DEVELOPMENT AND CONSTRUCTION, LLC 333 S. TAMiami TRAIL, SUITE 205 VENICE, FL 34285	PROJECT NAME: SEC. 12 TWP. 39S RING. 18E		PROJECT NUMBER: 19-2459 SCALE: 1"=20'	NO. DATE BY REVISIONS	2019 by Professional Engineering Resources, Inc. All Rights Reserved. The arrangements depicted of Professional Engineering Resources, Inc. and may not be reproduced in any form without the written permission.	PEER PROFESSIONAL ENGINEERING RESOURCES, INC. 10255 LIMESTON ROAD, SUITE 40 LARGO, FL 33771 CIVIL ENGINEER, PLANNING, PROJECT ENGINEERING CERTIFICATE OF AUTHORIZATION NUMBER: 4401	DRAWING TYPE: ☐ PRELIMINARY ☒ CONSTRUCTION ☐ RECORD	DESIGNED BY: PVS CHECKED BY: PVS DATE: 12-12-19 PAUL V. SHERMA, REG. NO. 35628	SHEET NUMBER: 3
	PROJECT NAME: SEC. 12 TWP. 39S RING. 18E								
	PROJECT NAME: SEC. 12 TWP. 39S RING. 18E								
	PROJECT NAME: SEC. 12 TWP. 39S RING. 18E								



INFLOW DISH WITH HOOD-LOOP REQUIRED

FOR PAVED SURFACES, SET MANHOLE LEVEL WITH FINISHED GRADE. FOR UNPAVED SURFACES, SET MANHOLE LEVEL 3" ABOVE FINISHED GRADE.

MANHOLE COVER

2 FEET DIAMETER

INTERIOR AND EXTERIOR OF MANHOLE SHALL BE COATED WITH TWO GALLON COATS OF HOT MASTIC COAL-TAR EPOXY, STOPPING AT THE BRANCH

8" MIN. BL

4" MINIMUM

3000 PSI MONOLITHIC CONCRETE BENCH

NON-PENETRATING UPT HOLES (TYP.)

RUBBER-NEK JOINT SEALER (TYP.)

8" MINIMUM OF COMPACTED GRAVEL OR COURSED STEEL BLAGGON TO BE DETERMINED BY CONTRACTOR

12"

ALL PIPE OPENINGS SHALL HAVE RESILIENT PIPE TO MANHOLE SEALER PIPE ASLT-CARD

TONGUE AND GROOVE JOINT, WOODEN, POLYESTER, GALVANIZED STEEL, OR GBS-60226 (TYP.)

PRECAST CONCRETE RINGS, OR FIBERGLASS/ADJUSTMENT RINGS (GWS) SHALL NOT EXCEED 24 INCHES WITH 10 INCH TO 12 INCH THICK MORTAR FINISH OUTSIDE.

NOTE:

- MANHOLE SHALL CONFORM TO A.S.T.A. C-474 LATEST REVISION TYPE II CONCRETE, 4000 PSI, 28 DAY COMPRESSIVE STRENGTH
- TURBULENT MANHOLES, DROP-MANHOLES, AND EXISTING MANHOLES RECEIVING FORCE MAINS SHALL BE LINED WITH AGRI-LENE DROP PIPE.
- ECCENTRIC CONE MANHOLES SHALL BE USED WHENEVER POSSIBLE, WHERE STRUCTURAL, CONNECTIONS, DRAINAGE, AND ACCESS ARE MAY BE USED BY AN ECCENTRIC CONE.
- FOR MANHOLES LESS THAN 5 FEET IN DEPTH, A SHOULDER MANHOLE (DETAL 5, THIS SHEET) SHALL BE USED.
- MONOLITHIC OUTLET WITH ADJUSTMENT RINGS MAY ONLY BE USED FOR SURFACE OVERLAY PROJECTS, NOT FOR NEW CONSTRUCTION.
- INFLOW DISH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR.

SANITARY SEWER MANHOLE DETAIL

N.T.S.



SEC. 12	TWP. 39S	RNG. 18E	PROJECT NUMBER	19-2459
PLANS FOR LOTS 6-9			SCALE	N.T.S.
WATER AND SEWER DETAILS				



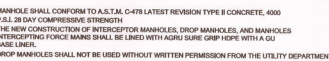
The diagram is a cross-sectional profile of a manhole structure. It shows a vertical shaft with a base. Key components and labels include:

- Drop Pipe:** Located at the top left, labeled "DROP PIPE TO BE SAME DIAMETER AS RINGS TYPE DISCHARGING INTO MANHOLE".
- Unreinforced Concrete:** A vertical section on the left labeled "UNREINFORCED CONCRETE 3' to 4'".
- General Notes:** A label pointing to the main structure: "GENERAL NOTES".
- Reinforcement:**
 - "#4 REBAR @ 12 INCHES ON CENTER EACH WAY" is shown at the base and along the walls.
 - "#4 REBAR @ 12 INCHES ON CENTER EACH WAY" is also indicated for the vertical section.
- Concrete Encasement:** A label on the right side: "CONCRETE ENCASMENT TO BE POURED INTEGRALLY WITH BOTH MANHOLE SLAB AND WALL".
- Minimum Cover:** A label at the bottom right: "4 INCHES MINIMUM CONCRETE COVER ALL AROUND".
- Dimensions:**
 - "8 INCHES" is marked at the bottom left corner.
 - "12 INCHES" is marked at the bottom center.
 - "12 INCHES" is marked at the bottom right.
- Profile:** The word "PROFILE" is centered at the bottom of the drawing.

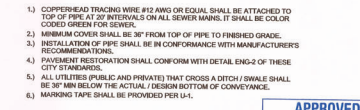
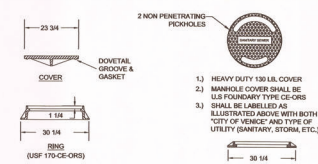
1.) MANHOLE SHALL CONFORM TO A.S.T.M. C-479 LATEST REVISION TYPE II CONCRETE, 4000 P.S.I. 28 DAY COMPRESSIVE STRENGTH

2.) THE NEW CONSTRUCTION OF INTERCEPTOR MANHOLES, DROP MANHOLES, AND MANHOLES INTERCEPTING FORCE MAINS SHALL BE LINED WITH AGGREGATE SURF GRIP-TON WITH A GU BASE LINES.

3.) DROP MANHOLES SHALL NOT BE USED WITHOUT WRITTEN PERMISSION FROM THE UTILITY DEPARTMENT.



BY	REVISIONS	20019 by Professional Engineering Resources, Inc. All Rights Reserved The arrangements depicted herein are the sole property of Professional Engineering Resources, Inc. and may not be reproduced in any form without its written permission	 PROFESSIONAL ENGINEERING 10225 ULMERTON ROAD CIVIL ENGINEERS, PLANNERS & ARCHITECTS
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	DRAWING TYPE ☐ PRELIMINARY ☐ CONSTRUCTION ☒ RECORD	DESIGNED BY: PVS	CHECKED BY: PVS	SHEET NUMBER 7
		DRAWN BY: SAC	DATE: 12-12-98	
S&A: A SERVICE, STATE OF CALIFORNIA, RECD: 12-12-98, LICENSE NO. 36419				
THIS SET BEING SUBMITTED FOR REVIEW AND STAMPED BY PVS ON 12-12-98 ON THE DATE SUBMITTED TO THE SEAL, VERG & S&A AUTHENTICATION CODE, PRINTED COPIES OF THIS DRAWING WILL BE FORWARDED TO THE STATE OF CALIFORNIA FOR AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES, 12-12-98.				
APPROVED		12/22/98		

ENGINEERING RESOURCES, INC. 40 LARGO, FL 33771 EDITORS (727) 408-5267

BASE REPAIR SHALL BE 2" OF #4/2 ASPHALT OR 10" OF CCA

SEE ENDS-2 FOR PAVEMENT RESTORATION DETAIL

CL PIPE

MARKING TAPE

12" MIN 16" MAX

SUBGRADE (12" MIN LBR 40)

CLEAN BACKFILL

PIPE	TAPE COLOR	MESSAGE
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

- COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 30' INTERVALS OR ALL RECLAIMED WATER FORCE OR POTABLE WATER MAINS. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE=WATER, GREEN=SEWER, PURPLE=REUSE)
- MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE, UNLESS OTHERWISE APPROVED.
- INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL ENDS-2 OF THESE CITY STANDARDS.
- CONFLICTS - UTILITE: 45° BENDS WITH SEPARATION AS PER CITY DETAILS.
- ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/CHANNEL SHALL BE 36" MIN. BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE.
- MARKING TAPE SHALL BE 2" WIDE MIN. DETECTABLE UNDERGROUND WARNING TAPE. INSTALL CENTERED DIRECTLY OVER THE PIPE.
- SEE S-4 FOR GRAVITY SEWER PIPE TRENCH DETAIL.

PRESSURE PIPE TRENCH DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE, FL 34286 (941) 486-2626 FAX (941) 486-3031	UTILITIES - GENERAL UTILITY PIPE TRENCH	DATE JAN. 2019 SHEET NO. U-1
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EXISTING MAIN

TAPPING SLEEVE

PROPOSED MAIN

TEST PLUG (1/2" NST)

TAPPING VALVE

MJ BELL

UNDISTURBED SOIL

12" MIN.

2000 PSI CONCRETE

WRAP IN VISQUEEN OR EQUIV.

- 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 SLEEVE PRESSURE TEST (NOTE 1), THE THIRTIEST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THIRTIEST 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 RESILIENT WEDGE-TYPE MANUFACTURED BY MILLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C500, AND BE REPT 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-4.

TAPPING SLEEVE & VALVE DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE, FL 34286 (941) 486-2626 FAX (941) 486-3031	UTILITIES - GENERAL TAPPING SLEEVE & VALVE	DATE JAN. 2019 SHEET NO. U-3
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3" DIA. BRASS DISK W/STEM EMERGED 8" DISK FLUSH W/PAD

24" SQ. 50'

6"

1.6" (1.6" - 10")

PLAN

2" RECESSED SQUARE FOR 1/2" DIA. DISK AND COPPER TRACING WIRE PLACED FLUSH W/PAD

24"X24"X12" CONCRETE PAD (2000 PSI AT 28 DAYS WITH FIBER REINFORCEMENT)

2" RECESSED PLUS W/SQUARE

2" SLP-80T TYPED COUPLING

VALVE BOX ASSEMBLY SHALL BE DUCTILE IRON

12 AWG COPPER TRACING WIRE

2" SCHED. 40 PIPE

PROFILE

COVER DETAIL

APPROPRIATE SERVICE TYPE SHALL BE INDICATED (WATER, SEWER, REUSE, OR FIRE)

- PAVED AREAS: SET CONCRETE PAD AND COVER FLUSH WITH FINISHED PAVEMENT SURFACE.
- UNPAVED AREAS: SET PAD AND COVER 1" INCH ABOVE FINISHED GRADE.
- VALVES LOCATED IN DITCH AND OVER 4' DEPTH (LNG) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROLS).
- COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE=WATER, GREEN=SEWER, PURPLE=REUSE)
- PRE-CAST PADS MAY BE USED WITH CITY APPROVAL.
- FOR CURBED ROADWAYS: CURB SHALL BE ETCHED 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.

VALVE BOX DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE, FL 34286 (941) 486-2626 FAX (941) 486-3031	UTILITIES - GENERAL VALVE BOX	DATE JAN. 2019 SHEET NO. U-4
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POTABLE WATER MAIN

3" MIN

RECLAIMED WATER MAIN

6" MIN

SEWER (GRAVITY OR FORCE MAIN)

3" MIN

EXISTING STORM SEWER

WATER MAIN, TELEPHONE

CABLE, SANITARY SEWER, POWER, CABLE TV, FORCE MAIN, GAS MAIN

FINISHED GRADE

30°

DEFLECTION BASED ON PIPE SIZE AND TYPE

PROPOSED PIPELINE

SEE TABLE BELOW

MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SEWER	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	3	6	3	3	3	3
FORCE MAIN	6	3	3	3	3	3
SANITARY SEWER	6	3	3	3	3	3
REUSE MAIN	3	3	3	3	3	3
STORM WATER	3	3	3	3	3	3
OTHER UTILITIES	3	3	3	3	3	3

MINIMUM VERTICAL SEPARATION DISTANCES (IN)

(OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

	WATER MAIN	FORCE MAIN	SANITARY SEWER	REUSE MAIN	STORM WATER	OTHER UTILITIES (TELEPHONE, CABLE, ETC.)
WATER MAIN	6	12	6	6	6	6
FORCE MAIN	12	6	6	6	6	6
SANITARY SEWER	12	6	6	6	6	6
REUSE MAIN	6	6	6	6	6	6
STORM WATER	6	6	6	6	6	6
OTHER UTILITIES	6	6	6	6	6	6

- MAXIMUM JOINT DEFLECTION SHALL BE 90% OF MANUFACTURER'S RECOMMENDATION.
- WHEREVER POSSIBLE, THE LAYOUT OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 8 INCHES IS ACCEPTABLE. STORM SHALL BE PLACED BELOW BOTH WATER AND SEWER WHERE POSSIBLE.
- ACCEPTABLE VARIANCES:
 - WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
 - WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
 - WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL SPOUNDER MAY BE REQUIRED, AT THE DISCRETION OF THE UTILITY DEPARTMENT.
- NO UTILITY PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE WITHOUT APPROVAL FROM THE UTILITIES DIRECTOR OR CITY ENGINEER.

UTILITY CONFLICT & SEPARATION DETAIL

N.T.S.

CITY OF VENICE ENGINEERING DEPARTMENT 401 WEST VENICE AVE. VENICE, FL 34286 (941) 486-2626 FAX (941) 486-3031	UTILITIES - GENERAL UTILITY CONFLICTS & SEPARATIONS	DATE JAN. 2019 SHEET NO. U-5
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CLIENT:	PROJECT NAME:	SEC. 12 TWP. 39S RING. 18E	PROJECT NUMBER:	NO. DATE BY	REVISIONS	DESIGNED BY: Professional Engineering Resources, Inc. All Rights Reserved. The arrangements depicted herein are the sole property of Professional Engineering Resources, Inc. and may not be reproduced in any form without the written permission.	PROFESSIONAL ENGINEERING RESOURCES, INC. 15025 TAMARIT ROAD, SUITE 40 LARGO, FL 33771 CIVIL ENGINEERS, PLANNERS, PERMIT EXPERTS (727) 486-5287 CERTIFICATE OF AUTHORIZATION NUMBER: 4401	DRAWING TYPE:	DESIGNED BY: PVS	CHECKED BY: PVS	SHEET NUMBER:
MPS DEVELOPMENT AND CONSTRUCTION, LLC 333 S. TAMIAH TRAIL, SUITE 205 VENICE, FL 34285	PARK BLVD UTILITY PLANS FOR LOTS 6-9		19-2459				☐ PRELIMINARY ☒ CONSTRUCTION ☐ RECORD	PAUL V. SHERMA, REG. NO. 55628			8
	CITY OF VENICE WATER AND SEWER DETAILS		N.T.S.	1	8-17-20	100					

APPROVED
NOV 03 2020
RECORD DRAWINGS