## NASSAU COUNTY TYPICAL 63' ROW UTILITY LOCATION PLAN

ALL UTILITIES TO BE INSTALLED BELOW DRAINAGE SYSTEM UNLESS APPROVED OTHERWISE BY ENGINEERING SERVICES ALL UTILITIES INSTALLED BELOW PAVEMENT MUST HAVE A MINIMUM COVER OF 36"



N.T.S.

S	TOCOI <b>T</b> Fnoineering 11C	714 NORTH ORANGE ARTUE, GREEN COVE SPRINGS, FL 32043 PH: 904-215-1388 E.B. NUMBER: 26383
	ENGINEER OF RECORD CHARLES SOHM	FLORIDA RECISTRATION NUMBER: 79289
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	PLOT DATE: DRAWN BY: DESIGNED BY: SCALE: JOB NO.: SHEET N 177	



JANUARY 2023

NOTES:





NOTES:

- 1. IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
- 2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27)
- 3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNELSS PRE-APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- THE SOILS BETWEEN THE MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.

## ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS

JANUARY 2023

PLATE S-39



NOTES:

- IF EXISTING CONFLICT PIPE IS A WATER OR RECLAIMED WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED.A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSINGS.
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## ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

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- 3. SEE MEASUREMENT AND PAYMENT SECTION FOR MAXIMUM PAYMENT WIDTHS
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR.26.
- UNLESS APPROVED OTHERWISE BY A JEA O&M MANAGER, NO GRAVITY SEWER MAIN WITH SEWER SERVICE LATERALS SHALL BE CONSTRUCTED WITH A "DEPTH OF CUT" GREATER THAN 12 FEET.
- SEWER SERVICE LATERALS ASSOCIATED WITH GRAVITY SEWER MAINS WHICH ARE DEEPER THAN 12 FEET, MUST BE ROUTED TO A GRAVITY SEWER HIGH-LINE, A MANHOLE OR OTHER JEA APPROVED METHOD.
- THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER, WHERE POSSIBLE (CONTINGENT UPON MEETING THE CUSTOMER'S ON-SITE CONDITIONS AND LOCAL CONSTRUCTION STANDARDS) A LATERAL REQUIRING MORE THAN 60° OF COVER MUST BE APPROVED, PRIOR TO CONSTRUCTION, BY JEA. HOUSE LATERAL - SECTION VIEW

JANUARY 2023



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PLATE S-20

- TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE NOT" IN USE". FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT IN USE". A LANDSCAPE TIMBER OR 3x3 MIN. P. T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JAC OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED. WHERE REQUIRED BY JAC OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED. WHERE REQUIRED FOR ALL LATERALS WHICH ARE NOT "IN USE". FOR NEW DEVELOPMENT AND A SUMPLY AND A SUMPL
- THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
- 3. NO SEWER SERVICE CONNECTIONS PERMITTED ON GRAVITY SEWER PIPE WHICH ARE 16" AND LARGER.
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26

## HOUSE LATERAL - PLAN VIEW

JANUARY 2023



#### NOTES:

# AIR VALVE ASSEMBLY INSIDE MANHOLE

PLATE S-19

PLATE S-41

PLATE S-29





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## NOTES:

7. "O" INDICATES A WIRE PIG-TAIL (24" LONG)

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- LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).

4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX ( WITH A VALVE ) OR A METER BOX ( IF NO VALVE ) AT 475'

NTERVALS, SEE DETAIL PLATE S-49B, WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED

6. 🎽 INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B

8. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.

- CURE LOCATING WIRE TO PVC FORCE MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM TANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.

LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH .03 INCHES (MINUMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUN) O.D. RATED BREAK LOAD 250LBS., UF RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STELL AS SPECIFIED IN SPEC. SECTION 750.

9. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

- 3. THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA

 APPLY GROUT TO FILL ANNULAR SPACE BETWEEN VALVE BOX AND CONCRETE PAD PAINT COVER AND INSIDE OF BOX GREEN - 24" ROUND PRECAST CONCRETE COMPACTED FARTH (TYP) PAD 4" THICK (SEE SPEC) SET ON COMPACTED EARTH, (SEE NOTE# 6 (Halitat) - VALVE BOX ADJUSTMENT (SEE NOTE# 5) - FINISHED GRADE VALVE BOX & COVER (TYP) PROVIDE GREEN PAINT TO THE INSIDE OF THE TOP SECTION OF THE BOX (NOTE #5) ELECTRONIC LOCATE BALL MARKER 6" PVC RISER PIPE (LENGTH AS REQUIRED) PROVIDE "V" CUT IN TOP OF 6" LOCATED WITHIN 12" FROM RISER PIPE (NOTE #10) RISER PIPE FOR LOCATE WIRE GATE VALVE W/ 2" OPERATING ACCESS INTO VALVE BOX NUT (NOTE #4) PLASTIC DEBRIS SHIELD REQUIRED PIPE W/ LOCATING WIRE ON ALL VALVES 12" AND SMALLER (SEE NOTE #8) RESTRAINED MECHANICAL 12" (MIN) LAYER OF #57 JOINT (TYP) STONE (REQUIRED FOR UNDISTURBED EART VALVES 20" AND LARGER (NOTE #7)

## NOTES:

- FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
- 2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAIL S-49).
- A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/(ASPHALT IF NO CURB) ADJACENT TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED GREEN.
- 4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12° MIN. DISTANCE BETWEEN THE VALVE OVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6° MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/SITEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
- 5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS, ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
- 8. BRASS IDENTIFICATION TAG INDICATING "SEWER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A X HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
- IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 #4 REBAR AROUND PERIMETER, MAY BE USED.
- 8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO X THE OVERALL HEIGHT OF THE VALVE.
- 9 FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
- 10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER, MARKER SHALL BE 4" DIA, COLOR CODED BALL MARKER (3M-1404XR FOR SEWER).

## SEWER VALVE DETAIL

BRANCH VALVE BOX OR LOCATE -

BOX REQUIRED (SEE NOTE #1)

10' MAX SPACING

4. "O" INDICATES A WIRE PIG-TAIL (4' LONG)

## PLATE S-30

BOX ACCESS (SEE NOTE #2)

V" CUT IN 6" PVC PIPE RISER

TEE OR SADDLE

" AND LARGER BRANCH MAI

LOCATING WIRE PARALLEL TO MAIN

FORCE MAIN

## CONNECT WIRE TOGETHER WITH WATER WIRE CONNECTOR. (SEE WATERPROOF WIRE CONNECTOR DETAIL)

JANUARY 2023

NOTES:

# REF. PLATE W-17

# INSTALL CO-POLYMER METER BOX WITH HEAVY-DUTY IRON LID (PAINT TOP OF LID) (POSITION BOX PARALLEL WITH MAIN)

# GRAVEL BOTTOM

DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS



LOCATE WIRE FOR BRANCH MAIN

3. LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT

**BRANCH FORCE MAIN** 

(4" AND LARGER SEWER MAIN

1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.

2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30)

PLATE S-49A

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LOCATE WIRE CONSTRUCTION FOR FORCE MAINS JANUARY 2023 PLATE S-49

NOTE:



6" PVC PIPE RISER

LOCATING WIRE

SECURE WIRE TO PIPE WITH DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS

JANUARY 2023

#### HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

## **PROPOSED UTILITY**

	PO	FABLE WA	ATER WASTEWATER GRAVITY AND FORCE MAIN		RECLAIMED WATER			VACUUM SEWERS				
CONFLICTING UTILITY	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*	HORIZ.	VERT.	JOINT SPACING*
POTABLE WATER	3' NOTE 1	12"	3' NOTE 2	6' to 10'	12" NOTE 5	6' NOTE 2	3'	12"	6' NOTE 2	3' to 10'	12"	3' NOTE 2
RECLAIMED WATER	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3'	12"	6' NOTE 2	3' NOTE 1	12"	3' NOTE 2
WASTEWATER (GRAVITY AND FORCE MAIN)	6' to 10'	12"	6' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
VACUUM SEWERS	3' to 10'	12"	3' NOTE 2	3' NOTE 1	12"	6"	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
RIGHT OF WAYS	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
PERMANENT STRUCTURES (SIGNS, POLES, ETC.)	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A	3' NOTE 1	N/A	N/A
STORM SEWERS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
GAS	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2
TREES	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A	3'-6' NOTE 6	N/A	N/A
ALL OTHER UTILITIES	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2	3' NOTE 1	12"	3' NOTE 2

#### NOTES:

1. THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH. PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH

2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.

3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE

4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.

5. WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM PARATION SHALL BE 12 INCHES

6. REFER TO POTABLE WATER PIPING- SECTION 350. III.4.11.

## SEPARATION REQUIREMENTS FOR WATER. WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2023

WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

- IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST JEA WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER MAINS" SHALL MEAN MAINS, INCLUDING TREATMENT PLANT PROCESS PIPING, CONVEYING EITHER RAW, PARTALLY TREATED, OR FINISHED DRINKING WATER, FIRE HYDRANT LEADS; AND SERVICE LINES THAT HAVE AN INSIDE DIAMETER OF THREE (S) INCHES OR GREATER. IN ADDITION, THE DURING WATER DOTOR WATER DROWN WATER DROWN WATER MORE SATER, IN ADDITION, THE PHRASE "RECLAIMED WATER" REFERS TO THE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C
- 2 NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER.
- 3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS MAY BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER (SPECIAL CASE).
- 4. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLE TWELVE (12) INCHES, ABOVE OR AT LEAST TWELVE (2) INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- 5 NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS A LEAST TWELVE (12) INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- 6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS PAR AS POSSIBLE FROM THE OTHER PIPELINE. BADVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS PAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH OROSSINGS, THE PIPES SHALL BE ATRANADED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THAT (3) FEET FROM ALL JOINTS IN VACUULA TYPE SANTLARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER, AND AT LEAST SIX (6) FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE-TYPE SANTLARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINE CONVEYING RECLAIMED WATER.
- NEW OR RELOCATED FIRE HYDRANTS SHALL BE LOCATED SO THAT THE HYDRANTS ARE AT LEAST THREE (3) FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER, AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANTIARY SEWER, AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET, FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE.TYPE SANTRAY SEWER OR WASTEWATER FORCE MAIN.
- 8. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS.

## NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2023

PLATE W-11

PLATE W-10







- LOCATE WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 350, LOCATE WIRE INSTALLATION PARAGRAPH.
- FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE OF SIDEWALK AND NOT WITHIN SWALE/DITCH AREAS. THE DISTANCE RANGE FROM EDGE OF ADJACENT PAVEMENT, BACK OF CURB AND FACE OF SIDEWALK SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA AND APPLICABLE PERMITTING AGENCIES. DISTANCE SHALL BE MEASURED TO THE CLOSEST PART OF THE FIRE HYDRANT (I.E. THE PUMPER NOZZLE). THE MAXIMUM DISTANCE (BACK OF CURB) SHALL BE IN COMPLIANCE WITH LOCAL COUNTY FIRE DEPARTMENT RULES AND AS APPROVED BY JEA, FOR OTHER LOCATION LIMITATIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF. AN ADDITIONAL 6" GATE VALVE IS REQUIRED AT THE HYDRANT LOCATION (PROVIDE 30" SEPARATION). ALL PIPING, VALVES AND FITTINGS ALONG THE HYDRANT BRANCH MAIN WHICH IS WITHIN 15 LF OF THE HYDRANT SHALL BI RESTRAINED UTILIZING ONLY TWO 3/4" DIA (THREADED ENDS) STEEL RODS AND EYE BOLTS (NO JOINT RESTRAINT DEVICE: REQUIRED). A SPLIT SERRATED RING WITH RESTRAINT EARS (EBAA 15 PF06 or EQUAL) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
- OPERATION OF THE FIRE HYDRANT SHALL BE EITHER FULL OPEN POSITION OR TOTALLY CLOSED POSITION. THE HYDRANT SHALL NOT BE UTILIZED TO THROTTLE OUTLET FLOW.
- PRIOR TO PROJECT FINAL INSPECTION, THE HYDRANT AND ALL ABOVE GROUND PIPING SHALL BE RE-OILED, GREASED AND REPAINTED (RUS- KIL ENAMEL-INTERNATIONAL YELLOW OR EQUAL). PRIVATELY OWNED AND MAINTAINED FIRE HYDRANTS SHALL BE PAINTED RED
- FIRE HYDRANTS SHALL BE ORDERED WITH PROPER "BURY DEPTH" TO MEET ACTUAL FIELD CONDITIONS. THIS IS ESPECIALLY IMPORTANT FOR BRANCH LINES WHICH TEE-OFF A 12° OR LARGER WATER MAIN. UNLESS APPROVED OTHERWISE BY JEA, THE INSTALLATION OF (45°) BENDS IS NOT ACCEPTABLE WHEN UTILIZED TO CORRECT AN IMPROPERLY FURNISHED HYDRANT. THE USE OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.
- BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS 6. PERPENDICULAR TO A LINE PARALLEL TO THE ROADWAY CENTERLINE. THE BLUE REFLECTIVE MARKERS SHALL BE PLACED IN THE CENTER OF THE TRAVEL LANE, DIRECTLY ACROSS FROM AND ADJACENT TO EACH FIRE HYDRANT.

## FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

PLATE W-13

⊕⊚ BARE WIRE DEAD. END (NOTE #1) 4'x4' SQUARE x 6" THICK CONCRETE SLAB IMMEDIATELY BELOW BREAKABLE FLANGE (SEE NOTE 2) (3000 psi CONCRETE WITH #4 REBAR AT 12" O.C. EACH WAY).

2'-8

6

- HYDRANT SUMP -NOTES:
- PARAGRAPH
- NOT BE UTILIZED TO THROTTLE OUTLET FLOW
- PAINTED RED
- OF HYDRANT EXTENSIONS SHOULD BE MINIMIZED.

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SECTION

NOTES:

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WATER SERVICE DETAIL- 2" AND SMALLER METER

PLATE W-2

WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

PLATE W-1

FLUSHING V

JANUARY 2023

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╡	Ť	WATER SHALL FLOW	
	_	STRAIGHT DOWN (NOT ANGLE)	
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	30"		
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	$\overline{\mathbb{X}}$		
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J	$\mathbf{)}$	PIPE (½" SIZE MIN.) ( TO BE	
Ņ	5	ROADWAY SHOULDER IF	
		REQUIRED (SEE NOTES)	
ł	_	1" THREADED PLUG (TO BE INSTALLED AFTER	
		BACTERIOLOGICAL CLEARANCE IS RECEIVED)	
~	-	90° DEGREE BEND ( TO BE REMOVED )	
-	-	1" CORPORATION STOP CONNECTED	
~	~	DIRECTLY INTO SADDLE (TO REMAIN)	
		TI" WATER SERVICE SADDLE (TO REMAIN) (NOTE THAT OUTLET.	
		AT 3:00 OR 9:00 POSITION)	
1			
		WATER MAIN (SIZE & TYPE VARIES)	
	ΝΟΤ	OT RE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY	
SIBL	LE F	FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED),	
IS	RE	ECEIVED.	
ł. 4	0) O	OR GALV. MATERIAL.	
N	FOR	OR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A	
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H A DTF	ALL . HER	L JEA RULES AND POLICIES AS AS OUTLINED BY JEA'S ENVIRONMENTAL R ASSOCIATED JEA STANDARDS.	
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- FI	IP <b>-</b>	2" POLY WITH BRASS FITTING CLOSE NIPPLE	
- FI	□P	2" POLY WITH BRASS FITTING CLOSE NIPPLE -2" BRASS, 90" ELBOW & PLUG	
- FI	□P \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2" POLY WITH BRASS FITTING CLOSE NIPPLE -2" BRASS, 90" ELBOW & PLUG	
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		2" POLY WITH BRASS FITTING CLOSE NIPPLE - 2" BRASS, 90" ELBOW & PLUG - 2"	
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		POLY WITH BRASS FITTING         COSE NIPPLE         P BRASS, 90° ELBOW & PLUG         P BRASS, PLUG & PLUG         P P P ALL P PLUG P PLUG         P P P PLUG P PLUG P PLUG	
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SMOOTH HOSE BIBB

(TO BE REMOVED)

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SEE NOTE #5 MINMAX COVER - FULL LENGTH OF PIPE CENTERED AT CROSSING, SEE NOTE #1 9' MIN 9' MIN OCATE WIRE, SEE NOTE #3 IECHANICAL JOINT 1114°, 221/2° OR 45° SEPARATION BENDS (SIZE VARIES) VARIES (SEE NOTES #1 & #2) RESTRAINED JOINT (TYP.) -EXISTING CONFLICT PIPE PROPOSED WATER MAIN SIZE & TYPE VARIES SIZE AS REQUIRED THE LENGTH OF THE PIPE TO BE RESTRAINED ON EACH SIDE OF BEND SHALL BE IN ACCORDANCE WITH RESTRAINT JOINT SCHEDULE, (SEE DETAIL W-31A OR W-31B)

#### NOTES

THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.

CASE "A" CROSSING

- 2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAIL (W-10 AND W-11)
- 3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

## ADJUSTMENT OVER EXISTING UTILITIES MECHANICAL RESTRAINTS



### CASE "B" CROSSING

#### NOTES:

- IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
- 2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (W-10 & W-11)
- 3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.

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- 4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 36" UNESS APPROVED OTHERWISE BY JEA. CHO SIZE SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOLID SETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
- JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED. UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION	_

VC PIPE				DUCTILE IR	ON PIPE (Mecha	nical Joint)	
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS	PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIU OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT	-	-	-	-
4	10	2.4°	480 FT	4	27	6.5°	177 FT
6	10	2.4°	480 FT	6	24	5.7°	200 FT
8	10	2.4°	480 FT	8 - 12	17.5	4.2°	273 FT
10	10	2.4°	480 FT	14 - 16	12	2.9°	400 FT
12	8.5	2°	564 FT	18 - 20	10	2.4°	477 FT
14 - 24	5	1.2°	960 FT	24 - 30	8	1.9°	600 FT
30 - 48	3.25	0.8°	1477 FT	36	7	1.7°	687 FT
				42 - 48	6.7	1.6°	716 FT

## ADJUSTMENT UNDER EXISTING UTILITIES PIPE JOINT DEFLECTION



#### CASE "B" CROSSING

- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557
- 2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11)
- 3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.

NOTES:

- THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
- 5. IN LOCATIONS WHERE WATER/RECLAIM MAINS CROSS UNDER A BOX-CULVERT, OR 36-INCH DIAMETER AND LARGER STORM WATER MAIN, JEA WILL REQUIRE DIP TO BE UTILIZED FOR THE MAIN.

## ADJUSTMENT UNDER EXISTING UTILITIES MECHANICAL RESTRAINTS

#### JANUARY 2023 PLATE W-34 MAXIMUM 80% OF MANUFACTURER'S -RECOMMENDATION FOR JOINT MIN/MAX COVER (SEE NOTE #4) DEFLECTION (SEE NOTE #5) ARREND DO DO DO DO FULL LENGTH OF PIPE CENTERED MAXIMUM ANGLE AT CROSSING (SEE NOTE #1) PROPOSED FORCE MAIN AIN/ SIZE & TYPE VARIES SEPARATION VARIES -(SEE NOTES #1&2) EXISTING CONFLICT PIPE a' MIN MINIMUM HORIZONTAL LENGTH REQUIRED AS PER MANUFACTURER TO DEFLECT PIPE MINIMUM HORIZONTAL LENGTH REQUIRED AS PER MANUFACTURER TO DEFLECT PIPE VERTICALLY TO AVOID OBSTRUCTION. VERTICALLY TO AVOID OBSTRUCTION

**CASE "A" CROSSING** 

- 1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
- 2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-10 & W-11).
- 3. LOCATING WIRE REQUIRED: SEE DETAIL W-44

JANUARY 2023

NOTES:

PLATE W-40

- 4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 36" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
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#### MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

PVC PIPE				DUCTILE IR	ON PIPE (Mecha	nical Joint)	
PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS	PIPE SIZE (IN.)	(X) MAX. OFFSET (IN.)	(Y) ANGLE AT ONE BELL	RESULTING RADIUS OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT		-		-
4	10	2.4°	480 FT	4	27	6.5°	177 FT
6	10	2.4°	480 FT	6	24	5.7°	200 FT
8	10	2.4°	480 FT	8 - 12	17.5	4.2°	273 FT
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12	8.5	2°	564 FT	18 - 20	10	2.4°	477 FT
14 - 24	5	1.2°	960 FT	24 - 30	8	1.9°	600 FT
30 - 48	3.25	0.8°	1477 FT	36	7	1.7°	687 FT
				42 - 48	6.7	1.6°	716 FT

## ADJUSTMENT OVER EXISTING UTILITIES PIPE JOINT DEFLECTION



- NOTES:

## JANUARY 2023

LOCATE WIRE

(SEE NOTE #3

PLATE W-41

6" PVC RISER PIPE -

#### NOTES:

JANUARY 2023

# WATER VALVE INSTALLATION DETAIL

PLATE W-18

17H



			(SE	E P	LATE No	s. 38C	
	VERTICAL 45° B	OFFSETS	VALVES OR		REDUCERS		
1.25° ENDS	UPPER	LOWER	DEAD ENDS		SIZE		
(FT.)	L (FT.)	L (FT.)	L (FT.)		(IN.)	L (FT.	
2	11	3	30		6x4	22	
3	15	4	42	1	8x6	23	
3	20	5	55		8x4	39	
5	20	5	35		10x8	22	
4	23	6	65		10x6	40	
5	27	7	77		12x10	23	
5	31	7	87	1	12x8	41	
6	35	8	97		16x12	42	
	00				16x10	58	
6	39	9	107		20x18	22	
6	42	10	118		20x16	42	
7	49	12	118		20x12	74	
8	59	14	141		24x20	36	
-			400		24x18	51	
9	68	17	163		24x16	64	
10	76	19	183		30x24	50	
11	84	21	203		30x20	77	
					36y30	50	

REDUCERS				
SIZE (IN.)	L (FT.)	RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
6x4	22	4	4	F.O.
8x6	23	4	6	6
8x4	39		4 < LESS	F.O.
10x8	22	8	8	19
10x6	40	10	0 < LESS 10	F.U. 20
12x10	23	10	8	9
12x8	41		6 < LESS	F.O.
16x12	42	12	12	40
16x10	58		8 < LESS	F.O.
20x18	22	16	16	60
20x16	42		12	25
20x12	74		8 < LESS	F.O.
24x20	36	20	20	79
24x18	51		16 12	48
24x16	64		10 < LESS	F.O.
30x24	50	24	24	79
30x20	77		20	54
36x30	50		12 < LESS	F.O.
36x24	89	30	30	101
42x36	48		24	66
42x30	89		16	30
48x42	48		12 < LESS	F.O.
48x36	88	36	36 30 24 20 16 12 < LESS	122 90 53 21 T.O.
		42	42 36 30 24 20 16 12 < LESS	141 113 79 38 3 1 F.O.
		48	48 42 36 30 24 20 < LESS	160 133 103 66 22 F.O.

F.O. = FITTING ONLY

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HEDU	LE
PLATE W	/-31B



#### TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

#### NOTES::

- 1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
- 3. THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
- THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.



- 1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
- THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.
- 4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICIES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS

## TEMPORARY SAMPLE TAP ALTERNATIVE METHOD A PLATE W-24





#### NOTES:

- 1. LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
- 2. SECURE LOCATING WIRE TO PVC & D.I.P. WATER MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
- THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECTED TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
- 4. LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX ( WITH A VALVE ) OR A METER BOX ( IF NO VALVE ) AT 475' INTERVALS. SEE DETAIL PLATE W-44B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
- 5. REFER TO SECTION 350 FOR LOCATE WIRE SPECIFICATIONS.
- 6. \*\*\* INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH A WATERPROOF CONNECTION. (SEE DETAIL W-44B)
- 7. "O" INDICATES A WIRE PIG-TAIL (4' LONG)
- 8. FOR FIRE HYDRANT LOCATE WIRE REQUIREMENTS AND EXCLUSIONS, SEE PLATES W-12,13 AND 14.
- 9. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES
- 10. FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

## LOCATE WIRE CONSTRUCTION FOR WATER MAINS

JANUARY 2023

PLATE W-44

#### TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B JANUARY 2023 PLATE W-24A





#### NOTES: 1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE

JANUARY 2023

- 2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE W-18).
- 3. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.

## LOCATE WIRE FOR BRANCH MAIN

JANUARY 2023

(SEE NOTE #2)

JANUARY 2023

PARALLEL WITH MAIN

# CONNECT WIRE TOGETHER WITH WATERPROOF -

WIRE CONNECTOR. (SEE WATERPROOF WIR CONNECTOR DETAIL)







ARGER WATER SERVICE PIPE

# (2" AND LARGER WATER MAIN OR 3" AND





PLATE W-45D

#### DESIGN CONDITIONS

L XYLEM NP3127SH3	11	HP
M80	20 - 90	FT/TDH
E 240/480	THREE	PHASE
E2"	3127	IMPELLER

PUMPS SHALL BE OF THE SUBMERSIBLE TYPE. EACH PUMP SHALL BE MOUNTED ON A 02" RAIL SYSTEM. THE RAIL SYSTEM SHALL BE SELF ENGAGING RESULTING IN A LEAKPROOF COUPLING. THE RAIL SYSTEM SHALL INCLUDE THE BASE ELBOW, DISCHARCE FLANGE ASSEMBLY, 01" 304SS CUIDE RAILS, 316SS UPPER CUIDE BRACKET, 316SS LIFTING BALL AND CABLE, AND A SIX-HOOK 316SS CABLE HOLDER. THE RAIL SYSTEM SHALL BE MOUNTED AND PRE-PIPED BY THE PUMP SUPPLIER.

PUMP CONSTRUCTION THE PUMP VOLUTE, MOTOR AND SEAL HOUSING SHALL BE CONSTRUCTED OF CAST IRON, ASTM A-48. ALL EXTERNAL FASTENERS SHALL BE SERIES 300 STAINLESS STEEL. THE PUMP SHAFT SHALL BE CONSTRUCTED OF SERIES 416 STAINLESS STEEL.

IMPELLER THE IMPELLER SHALL BE OF MULTI-VANE, SEMI-OPEN BRONZE CONSTRUCTION. THE IMPELLER SHALL INCLUDE PUMP-OUT VANES ON THE BACK OF THE IMPELLER AND SHALL BE STATICALLY AND HYDRAULICALLY BALANCED.

CUTTERS A TWO-STAGE CUTTER ASSEMBLY SHALL BE MOUNTED ON THE SUCTION SIDE OF THE PUMP WITH DIRECT DISCHARGE INTO THE PUMP IMPELLER. THE GRINDER SHALL BE CAPABLE OF GRINDING ALL MATERIALS FOUND IN NORMAL, DOMESTIC SEWAGE, INCLUDING PLASTICS, RUBBER, SANITARY NAPKINS, DISPOSABLE DIAPERS AND WOOD PARTICLES, INTO A FINE SULRRY. BOTH THE STATIONARY AND ROTATING CUTTERS SHALL BE CONSTRUCTED OF HARDENED 440C STAINLESS STEEL

MOIDE THE MOTOR SHALL BE MOUNTED IN A SEALED, SUBMERSIBLE TYPE HOUSING. THE STATOR SHALL BE SECURELY HELD IN PLACE WITH A REMOVABLE END RING AND THREADED FASTENERS FOR EASE OF REMOVAL WITHOUT THE USE OF HEAT OR A PRESS. THE MOTOR WILL HAVE TWO HEAVY-DUTY BALL BEARINGS; ONE UPPER (RADIAL) AND ONE LOWER (THRUST), TO SUPPORT THE SHART. THE MOTOR SHALL BE EQUIPPED WITH A WINDING THERMOSTAT THAT AUTOMATICALLY SHUTS THE MOTOR OFF IN CASE OF MOTOR OVERHEATING.

SEAL CHAMBER THE PUMP SHALL HAVE TWO MECHANICAL SEALS, MOUNTED IN TANDEM WITH AN OIL CHAMBER BETWEEN THE SEALS. THE PUMP SHALL BE EQUIPPED WITH A SEAL LEAK DETECTION PROBE AND WARNING SYSTEM BY USING A SEAL FAILURE SENSOR INSTALLED IN THE SEAL CHAMBER.

WET WELL THE PUMP SUPPLIER SHALL PROVIDE THE FIBERGLASS WET WELL. THIS GLASS FIBER-REINFORCED POLYESTER BASIN SHALL BE CONSTRUCTED OF A COMMERCIAL GRADE OF GLASS FIBER AND SHALL BE PROVIDED WITH AN ANTI-FLOTATION RING WITH A MINIMUM DIAMETER OF THREE INCHES LARGER THAN THE BASIN DIAMETER. THE RAIL SYSTEM, INTERNAL PIPING AND DISCHARGE CONNECTIONS SHALL BE PRE-INSTALLED BY THE PUMP SUPPLIER.

#### HATCH COVER

## VALVE BOX THE VALVE BOX IS FIBERGLASS WITH ALUMINUM LOCKABLE COVER. STANDARD SIZE

VALVE BOX IS 3' X 2 1/2' X 2'.

FLOATS FLOATS SHALL BE ANCHOR SCIENTIFIC ROTO-FLOATS OR EQUAL.

CONTROLS THE CONTROL PANEL SHALL BE UL508 LISTED. A NEMA 3R OR 4X ENCLOSURE SHALL BE PROVIDED IN EITHER FIBERCIASS OR STAINLESS STEEL. THE PANEL SHALL INCLUDE AN ALTERNATING CONTROL SCHEME (DUPLEX AND ABOVE), MAIN CIRCUIT BREAKER, GENERATOR RECEPTACLE, HIGH LEVEL ALARM LIGHT AND HORN, ELAPSED TIME METERS, VOLTAGE OR PHASE MONITOR, SEAL FALLWE AND OVERLOAD SENSORS. THE UCHTINGE ADBRETTOR SHALL BE SHIPPED LOGSE FOR FIELD INSTALLATION.

# THE LIGHTNING ARRESTOR SHALL BE SHIPPED LOOSE FOR FIELD INSTALLATION.

SUPPLIER PUMP SUPPLIER SHALL PROVIDE SUBMERSIBLE PUMPS, SLIDE RAIL ASSEMBLIES, CONTROL PANEL, FLOAT SWITCHES, ALUMINUM HATCHES AND ACCESSORIES TO INSURE PROPER OPERATIONS AND WARRANTY. THE COMPLETE PACKAGE PUMPING STATION SHALL HAVE PUMP BASES, RAIL ASSEMBLIES, AND DISCHARGE PIPING ASSEMBLED BY BARNEY'S PUMPS INC. READY FOR FIELD INSTALLATION.

NOTE: THE PUMP STATION IS TO BE BUILT WITH APPROPRIATE FEATURES TO DISCOURAGE THE ENTRY OF ANIMALS AND UNAUTHORIZED PERSONS. POSTING OF AN UNOBSTRUCTED SIGN MADE OF DURABLE WEATHER RESISTANT MATERIAL AT A LOCATION VISIBLE TO THE PUBLIC WITH A TELEPHONE NUMBER FOR A POINT OF CONTACT IN CASE OF EMERGENCY IS SPECIFIED.



MODE GF VOLTAG DISCHARG

HALCH COVER SHALL BE 2/3 HINGED TO ALLOW FOR MAXIMUM ACCESS TO THE WET WELL. THE HATCH COVER SHALL BE ALUMINUM WITH STAINLESS STEEL FASTENERS, RATED FOR 150 PSF OR GREATER. THE HATCH COVER SHALL INCLUDE A SINGLE OR DUAL DOOR OF DIMENSIONS SPECIFIED BY THE PUMP MANUFACTURER FOR PROPER PUMP CLEARANCE. THE COVER SHALL BE MANUFACTURED BY US FABRICATION, OR EQUAL.

 $\underline{\text{VALVES}}$  values shall be sewage swing check with clean-out ports and brass gate values.

#### **LEGEND**

ENCLOSURE AND DEADFRONT LAYOUT (TYPICAL) (OUTER DOOR REMOVED)

OSFM

ETM

**e**HO.

NEMA 3R OR 4X ENCLOSURE

FIBERGLASS OR STAINLESS

STEEL

BASE PLATE LAYOUT (TYPICAL)

TERMINAL STRIP

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ASR SFM ALT

a Ba

- ENG ENCLOSURE MCB MAIN CIRCUIT BREAKER
- ECB EMERGENCY CIRCUIT BREAKER
- PCB1.2 PUMP CIRCUIT BREAKER
- CCB MS1,2 CONTROL CIRCUIT BREAKER MOTOR STARTER
- OL GR OVERLOAD HEATER
- GENERATOR RECEPTACLE VM VOLT MONITOR
- ETM ELAPSED TIME METER
- ALT ALTERNATOR
- ALARM HORN ALARM LIGHT
- AH AL ASB HOA ALARM SILENCE BUTTON
- HAND OFF AUTO SWITCH VMB VOLT MONITOR BYPASS
- RUN LIGHT RL INDICATING LIGHT IL
- SEAL FAIL MODULE
- SFM ASR ALARM SILENCE RELAY RUN CAPACITOR
- START CAPACITOR
- START RELAY
- PHASE MONITOR PHASE MONITOR BYPASS PM PMB







SECTION VIEW

ALUMINUM COVER

-CONTROL PANEL WITH

GENERATOR RECEPTACLE AND LOCKING PROVISION









![](_page_15_Figure_0.jpeg)

me: 5:51 PM DWG Name: \\TE-GCS\01-Projects\21-470 Tyler West Plaza 2021\03-CADD\07\_21-470

![](_page_16_Figure_0.jpeg)

![](_page_17_Figure_0.jpeg)

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

![](_page_22_Figure_0.jpeg)

## NOTES:

- 1. This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
- 2. L = Taper Length
- B = Buffer LengthX = Work Zone Sign Spacing
- See Index 102–600 for "L", "B", "X" and channelizing device spacing values.
- 3. Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
- 4. Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
- 5. Additional one-way control may be provided by the following means:
- a. Flag-carrying vehicle
- b. Official vehicle
- c. Pilot vehicles
- d. Traffic signals

When flaggers are the sole means of one-way control, the flaggers must be in sight of each other or in direct communication at all times.

## SYMBOLS:

Work Area

- Channelizing Device (See Index 102–600)
- D Work Zone Sign
- **□** Flagger

Lane Identification and Direction of Traffic

LAST REVISION 11/01/21	EVISION	DESCF
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RIPTION:

FDOT

6. The "Speeding Fines Doubled When Workers Present"

hours or less.

8. Railroad Crossings:

and the APL vendor drawings.

signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be

7. Automated Flagger Assistance Devices (AFADs) may be

a. If an active railroad crossing is located closer to

extend the Buffer Space as shown on Sheet 2.

b. If the queuing of vehicles across an active railroad

crossing cannot be avoided, provide a uniformed

traffic control officer or flagger at the highway-rail

the highway-rail grade crossing, even if automatic

train warning devices are in place.

grade crossing to prevent vehicles from stopping within

the Work Area than the queue length plus 300 feet,

omitted when the work operation will be in place for 24

used in accordance with Specification Sections 102, 990

TWO-LANE, TWO-WAY WORK WITHIN THE TRAVEL WAY

![](_page_22_Picture_25.jpeg)

![](_page_22_Figure_27.jpeg)

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

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## STORM WATER POLLUTION PREVENTION PLAN

## CONTRACTOR'S REQUIREMENTS

![](_page_25_Picture_2.jpeg)

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