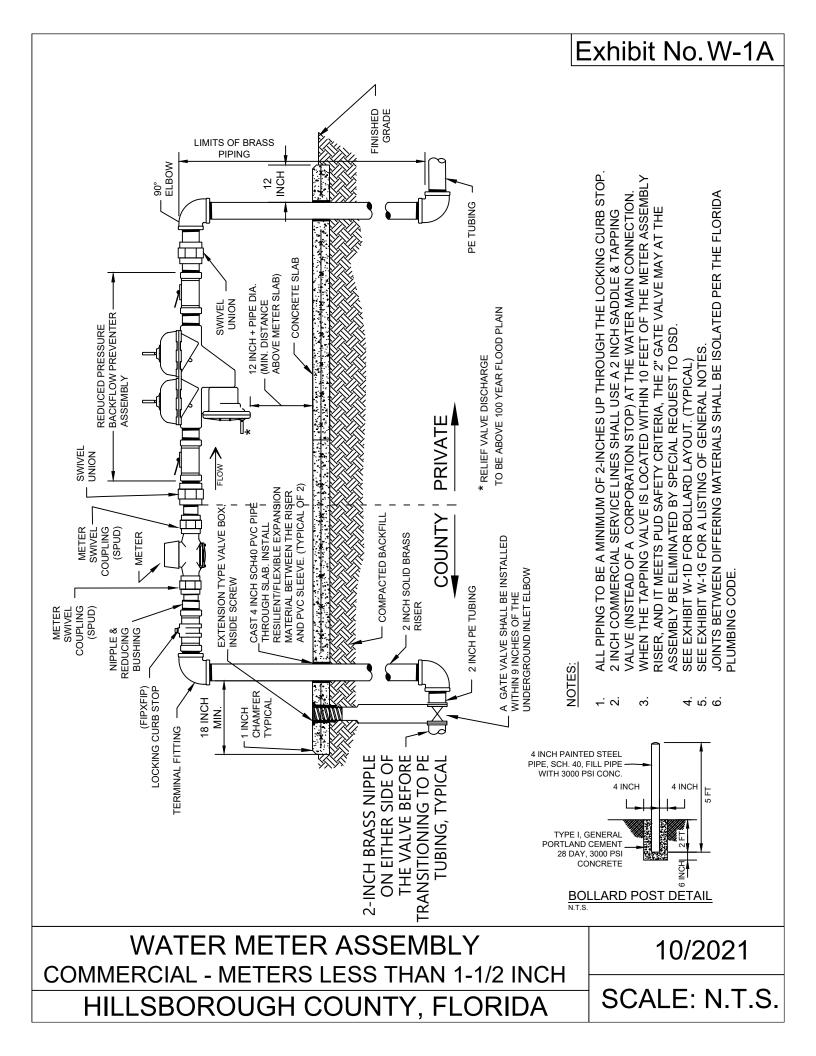
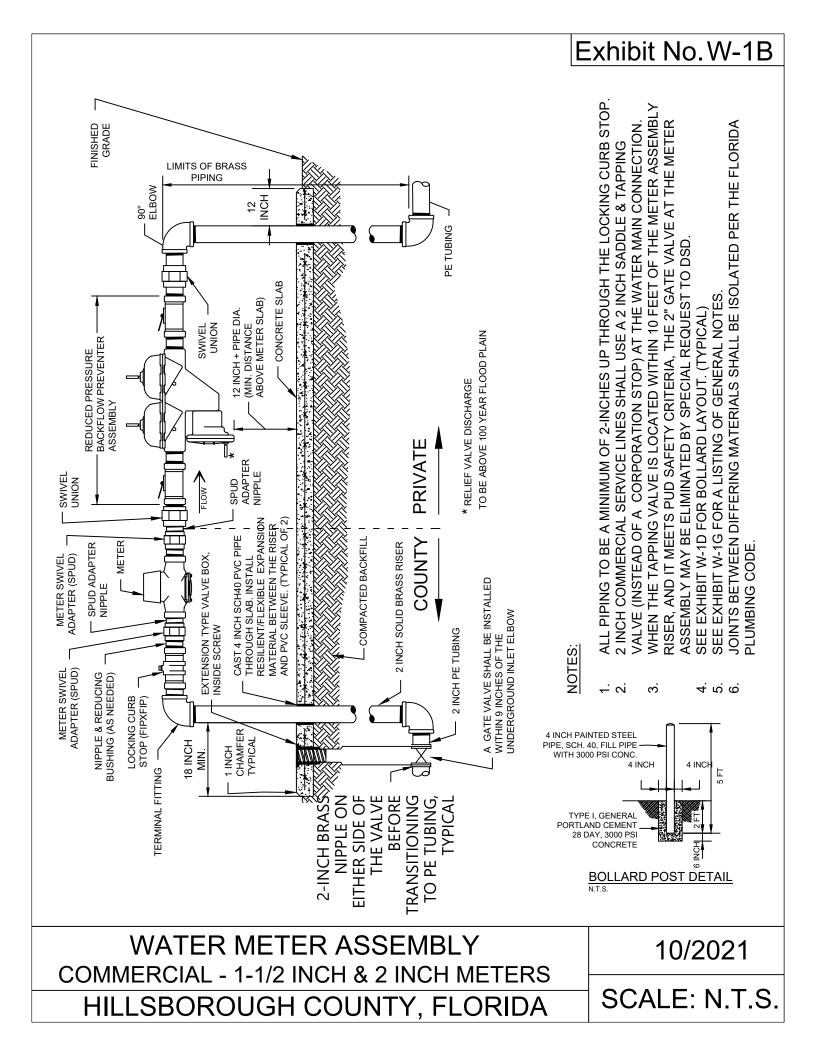
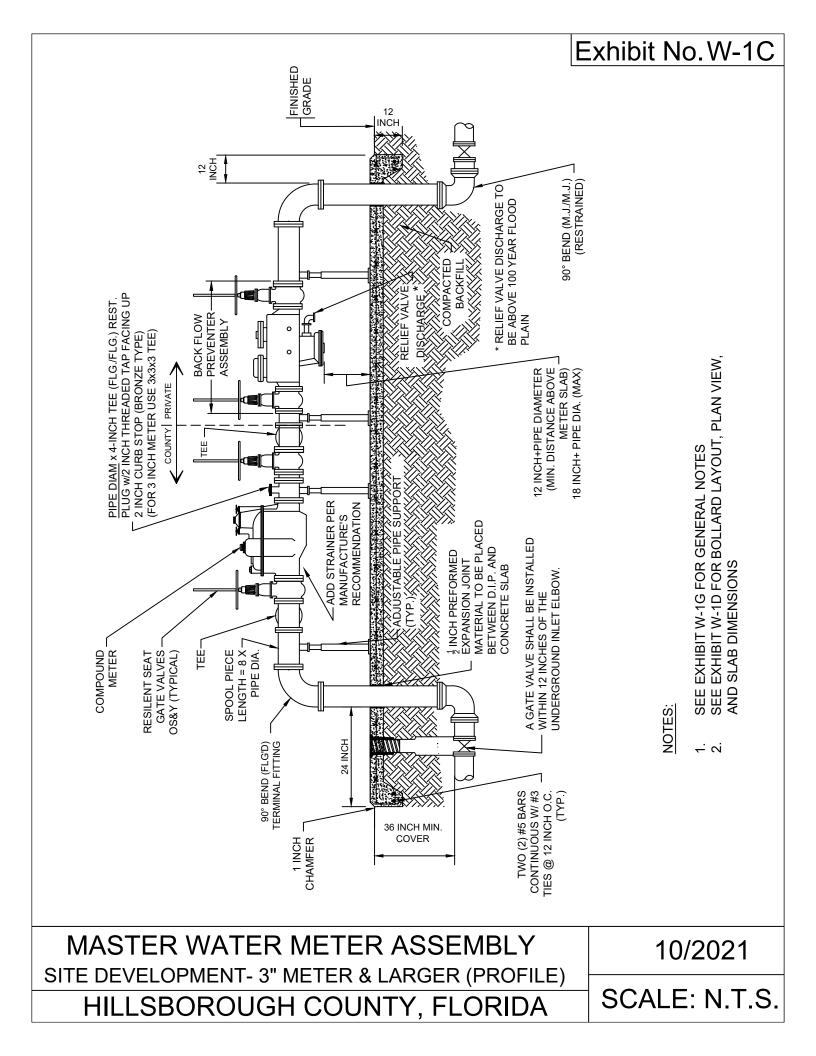
WATER EXHIBITS

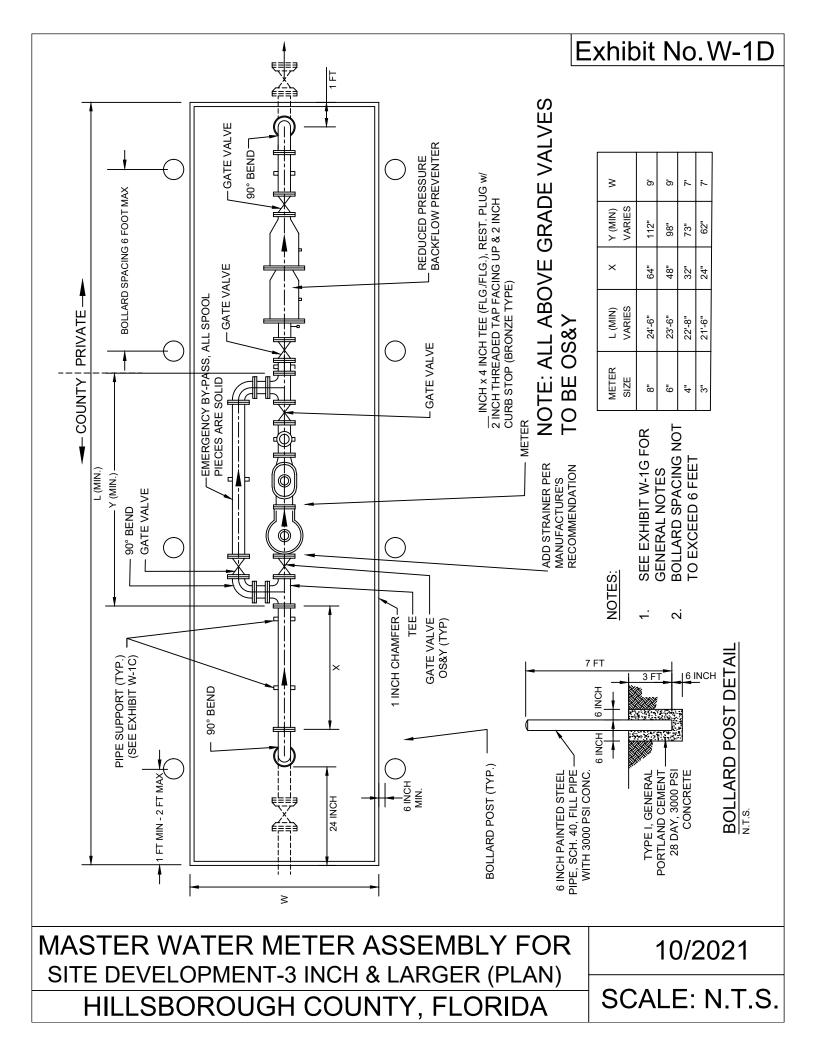
Exhibit No.

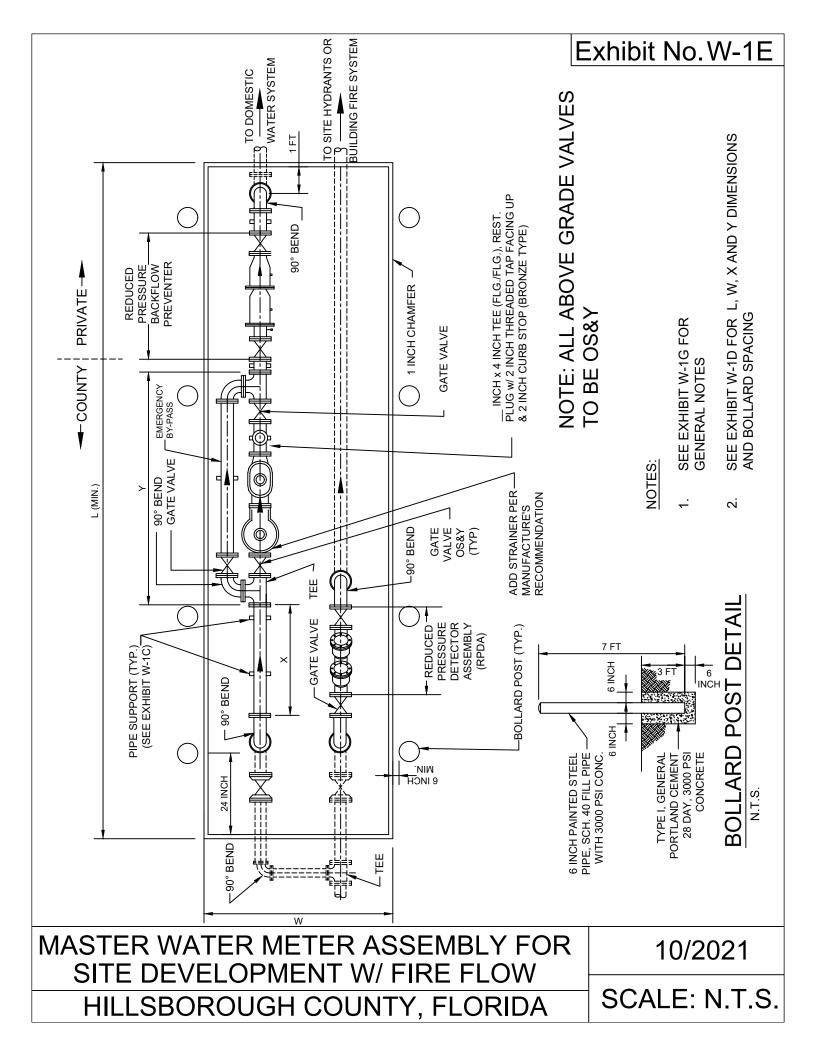
W-1A W-1B W-1C W-1D W-1E W-1F	WATER METER ASSEMBLY - COMMERCIAL METERS LESS THAN 1-1/2 INCH WATER METER ASSEMBLY - COMMERCIAL 1-1/2 INCH & 2 INCH METERS MASTER WATER METER ASSEMBLY SITE DEVELOPMENT - 3 INCH METER & MASTER WATER METER ASSEMBLY SITE DEVELOPMENT - 3 INCH METER & MASTER WATER METER ASSEMBLY SITE DEVELOPMENT W/ FIRE FLOW TEMPORARY CONSTRUCTION BACKFLOW ASSEMBLY FOR RESIDENTIAL C DEVELOPMENT	& LARGER (PROFILE VIEW) & LARGER (PLAN VIEW)
W-1G	NOTES WATER METER ASSEMBLIES	
/⚠ W-2A W-2B	DEDICATED FIRE CONNECTION BACKFLOW ASSEMBLY - 2-INCH AND LESS BACKFLOW PREVENTION DEVICE RPDA (FIRE SERVICE ONLY)	
W-3A W-3B W-3C W-3D W-3E W-3F W-3G	RESIDENTIAL SERVICE LAYOUT RESIDENTIAL SINGLE METER SERVICE RESIDENTIAL DUAL METER SINGLE LOT SERVICE RESIDENTIAL METER SERVICE INSTALLATION (METER OVER MAIN) RESIDENTIAL METER SERVICE INSTALLATION (NEAR SIDE) RESIDENTIAL METER SERVICE INSTALLATION (FAR SIDE) RESIDENTIAL DUAL LOT METERED SERVICE (FAR SIDE)	
W-4	POTABLE WATER METER BOX	
W-5A W-5B W-5C W-5D	FIRE HYDRANT (RESTRAINED) FIRE HYDRANT FOR LIMITED SPACE (RESTRAINED) WATER MAIN EXTENSION WITH HYDRANT DETAIL FAR SIDE HYDRANT DETAIL	
W-6A W-6B W-6C	BLOW-OFF ASSEMBLY BLOW-OFF ASSEMBLY AND FIRE HYDRANT AT CUL-DE-SAC ROAD UP TO 1 BLOW-OFF ASSEMBLY AND FIRE HYDRANT AT CUL-DE-SAC ROAD GREATE	
W-7A W-7B	RESTRAINED JOINT-STANDARD RESTRAINED JOINT FOR PVC C-900 PIPE (4 INCH TO 12 INCH)	
W-8A W-8B W-8C W-8D W-8E	AIR RELIEF VALVE-MANUAL AUTOMATIC AIR RELIEF VALVE ASSEMBLY-STANDARD AUTOMATIC AIR RELIEF VALVE ASSEMBLY-OFFSET AUTOMATIC AIR RELIEF VALVE ASSEMBLY - OFFSET NEW CONSTRUCTION (LINE OUT OF SERVICE) AIR RELEASE RING AND COVER	
W-9A W-9B	VALVE BOX AND MARKER INSTALLATION FOR PAVED AREAS CONCRETE VALVE PAD (FOR UNPAVED AREAS)	
W-10	CASING DETAILS - JACK AND BORE	
W-11	DITCH BOTTOM CLEARANCE AND CONCRETE PROTECTIVE SLAB	
W-12A W-12B	VALVE AND TRACER WIRE (FOR PAVED AND NON-PAVED AREAS) VALVE EXTENSION FOR GATE VALVES	
W-13	BORING FOR UTILITIES	
W-14	TRENCH DETAILS - BACKFILL & COMPACTION	
LI	STING OF WATER EXHIBITS	10/2021
HIII	SBOROUGH COUNTY, FLORIDA	SCALE: N.T.S.

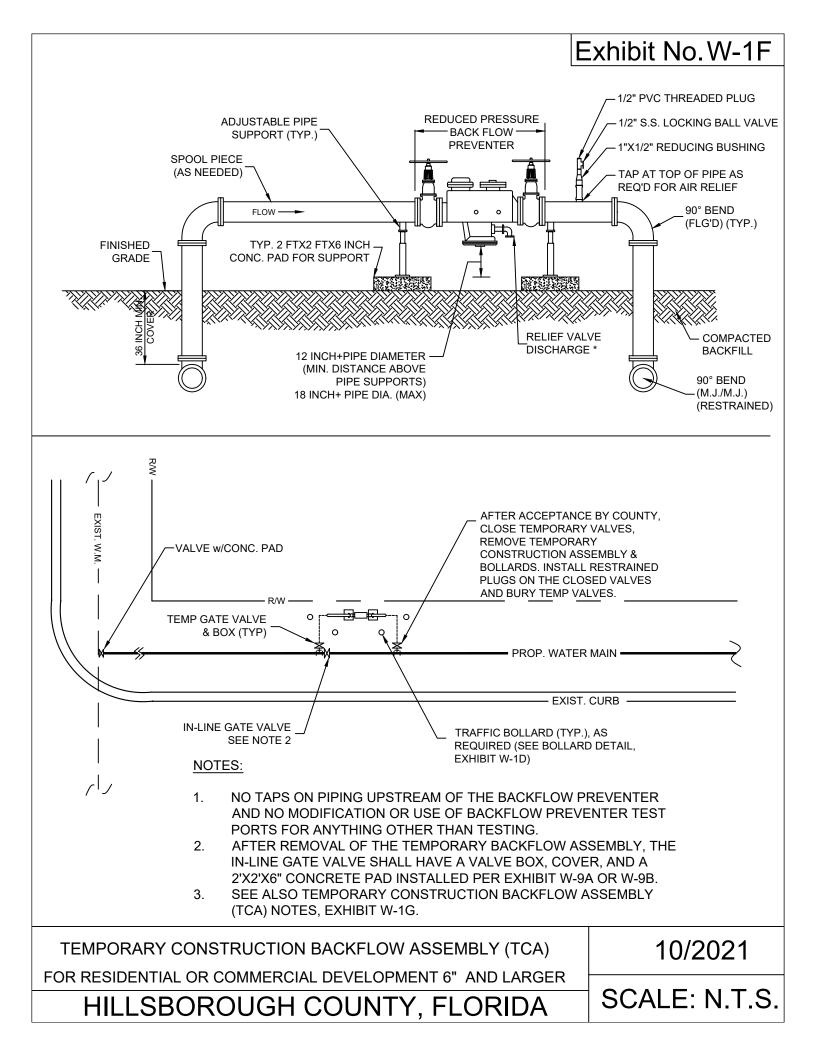












GENERAL NOTES:

Exhibit No.W-1G

- 1. A MASTER METER ASSEMBLY SHALL BE DIRECTLY ACCESSIBLE BY A MAINTENANCE VEHICLE OFF A COUNTY ROW, OR BY AN INTERIOR ROAD THAT IS NOT BLOCKED BY A WALL OR GATE. THE TRUCK ACCESS ROAD SHALL BE 12 FT WIDE (MIN.) AND PAVED (CONCRETE OR ASPHALT)
- 2. ALL ABOVE GROUND PIPES AND FITTINGS SHALL BE CLASS 53 D.I.P. FOR 4 INCH AND LARGER PIPE.
- 3. CERTIFICATION OF PROPER OPERATION WILL BE REQUIRED FROM A CERTIFIED BACKFLOW TESTER PRIOR TO THE WATER MAIN ACCEPTANCE BY THE HILLSBOROUGH COUNTY PUBLIC UTILITIES DEPARTMENT.
- 4. ALL BACKFLOW ASSEMBLIES OR DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH AND SHALL MEET THE REQUIREMENTS FOUND IN CHAPTER 121 OF THE HILLSBOROUGH COUNTY CODE OF ORDINANCES, PART B, PUBLIC UTILITIES.
- 5. THE PROPER OPERATION, MAINTENANCE, AND TESTING OF THE BACKFLOW PREVENTION ASSEMBLY, SHALL BE IN ACCORDANCE WITH CHAPTER 121 OF THE HILLSBOROUGH COUNTY CODE OF ORDINANCES PART B, PUBLIC UTILITIES.
- 6. THE 6 INCH CONCRETE SLAB SHALL BE REINFORCED WITH 6x6-W1.4xW1.4 WELDED WIRE FABRIC AND SHALL BE TYPE I, PORTLAND CEMENT WITH A MINIMUM 28-DAY STRENGTH OF 3000psi.
- 7. SLAB WIDTH AND LENGTH SHALL VARY WITH ASSEMBLY. THE TOP OF SLAB SHALL BE 2 INCHES ABOVE FINISHED GRADE.
- 8. THE METER ASSEMBLY & BOLLARDS SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATION 331001, PART 2.6.
- 9. IF THE METER ASSEMBLY IS LOCATED WITHIN OR ADJACENT TO A TRAFFIC/VEHICLE AREA (PARKING LOT, DRIVEWAY, OR WITHIN 15 FT OF EDGE OF PAVEMENT/BACK OF CURB), METERS UP TO 2 INCHES SHALL HAVE A MINIMUM OF 4 TRAFFIC BOLLARD PROTECTION POSTS, AND FOR METERS 3 INCHES & LARGER A MINIMUM OF 6 TRAFFIC BOLLARDS ARE REQUIRED.

TEMPORARY CONSTRUCTION BACKFLOW ASSEMBLY (TCA) NOTES:

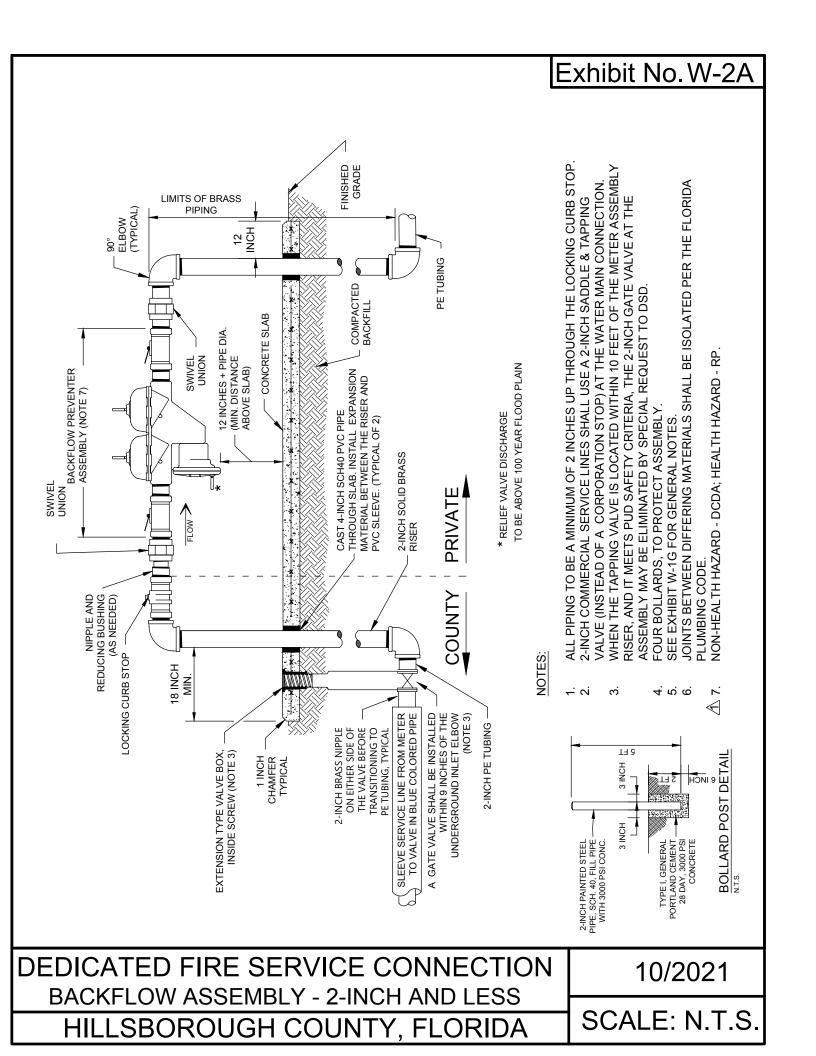
- 1. THE IN-LINE VALVE IS TO REMAIN CLOSED UNTIL AFTER THE CONSTRUCTION AND FINAL ACCEPTANCE OF THE DEVELOPMENT WATER DISTRIBUTION SYSTEM. NO DOWNSTREAM TIE-INS TO THE WRD WATER DISTRIBUTION SYSTEM ARE ALLOWED UNTIL AFTER A PASSING PRESSURE TEST AND 2 BAC-T TESTS ARE CERTIFIED BY THE EOR AND SUBMITTED TO PUD INSPECTION. ONCE FINAL TIE-INS ARE MADE 2 ADDITIONAL BAC-T TESTS ARE REQUIRED FOR EACH TIE-IN BEFORE SUBMITTING TO THE DOH FOR FINAL CLEARANCE.
- 2. THE BACKFLOW ASSEMBLY IS TO BE REMOVED BY THE CONTRACTOR AFTER FINAL ACCEPTANCE OF THE WATER DISTRIBUTION SYSTEM BY BOTH THE HILLSBOROUGH COUNTY DOH AND HILLSBOROUGH COUNTY DSD.
- 3. ALL CONSTRUCTION MUST MEET APPLICABLE STATE AND/OR LOCAL ROADWAY/ROADSIDE DESIGN STANDARDS INCLUDING, BUT NOT LIMITED TO, CLEAR ZONE REQUIREMENTS.

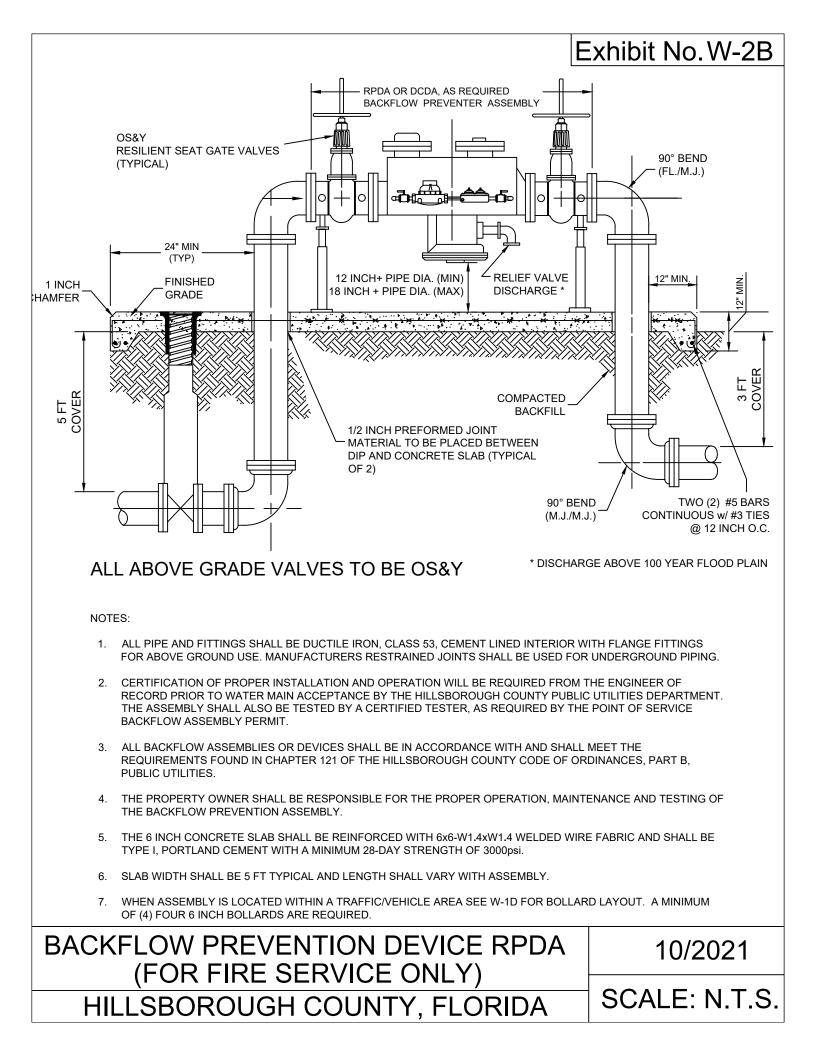
NOTES WATER METER ASSEMBLIES

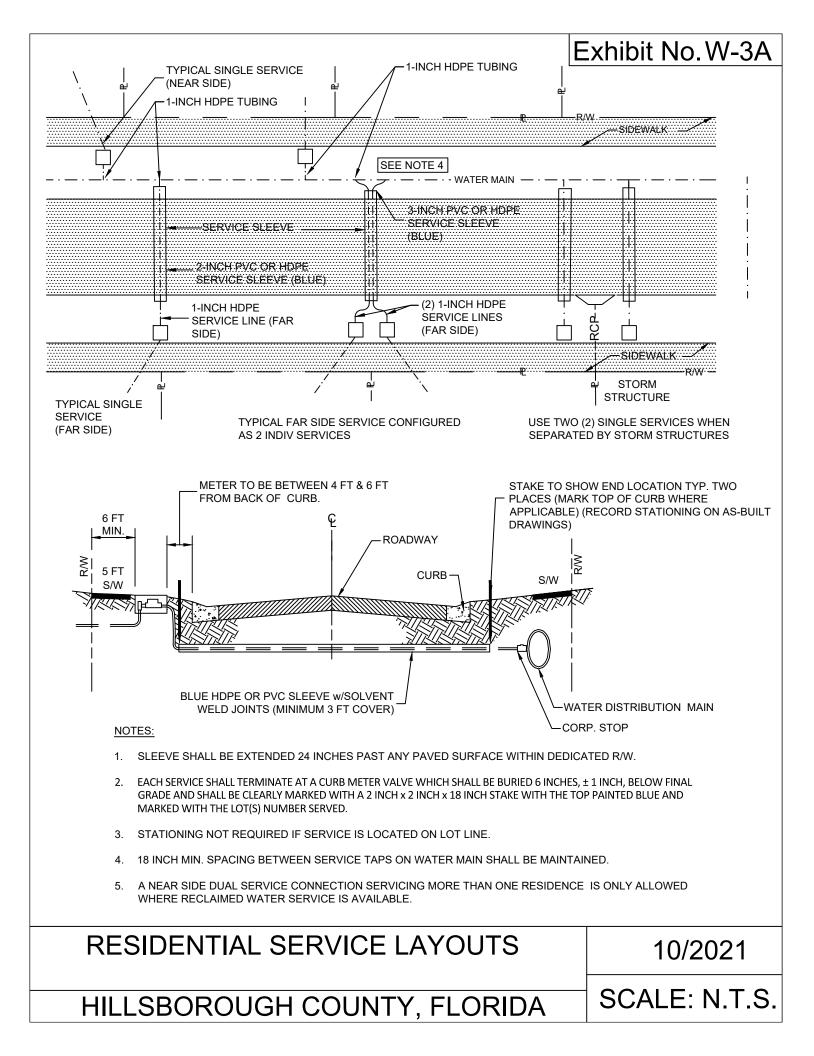
10/2021

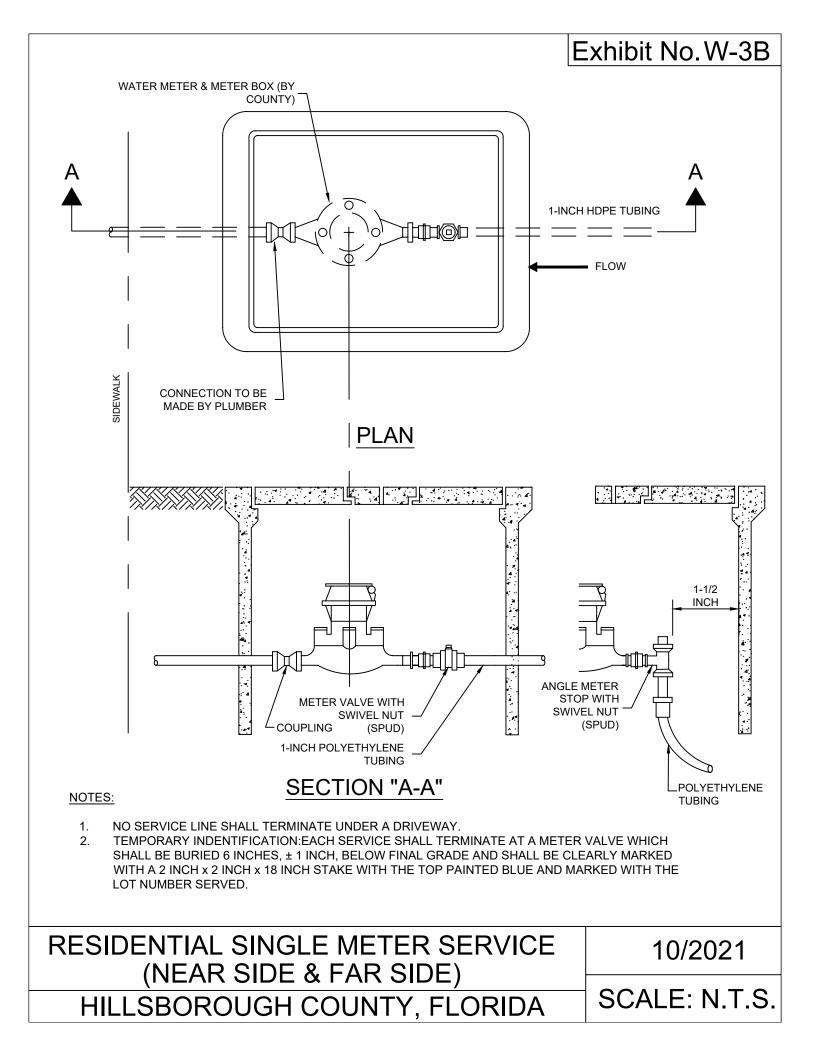
SCALE: N.T.S.

HILLSBOROUGH COUNTY, FLORIDA









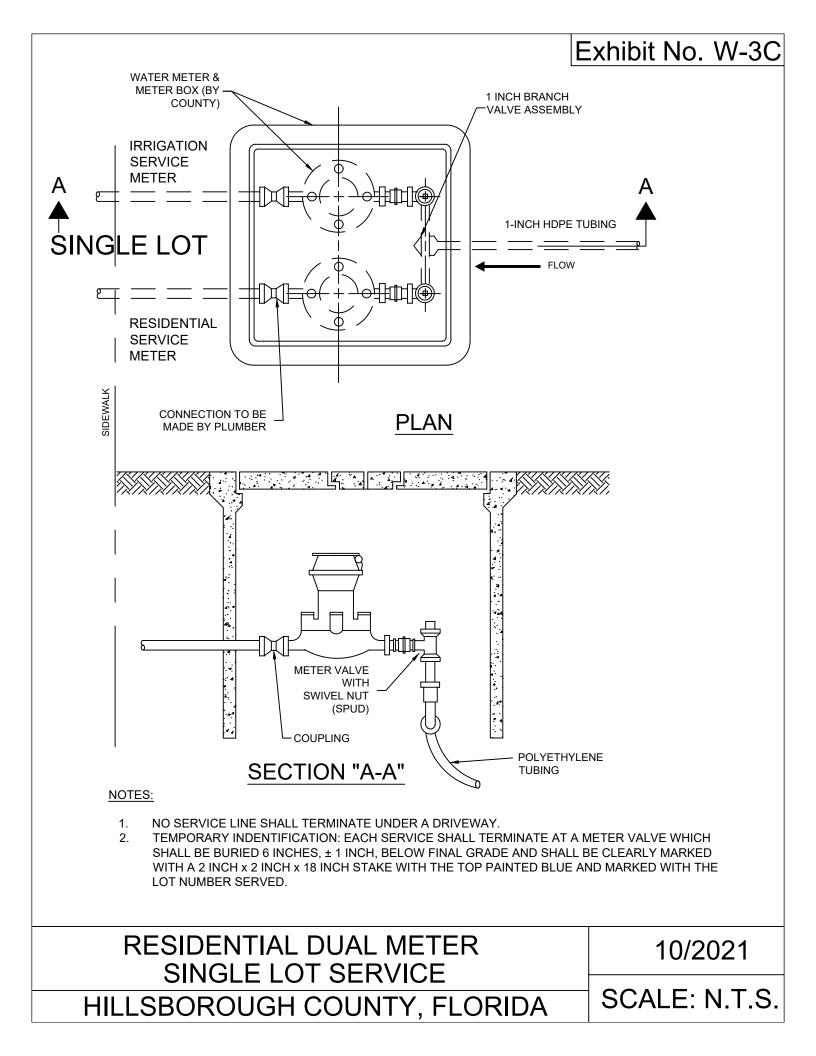
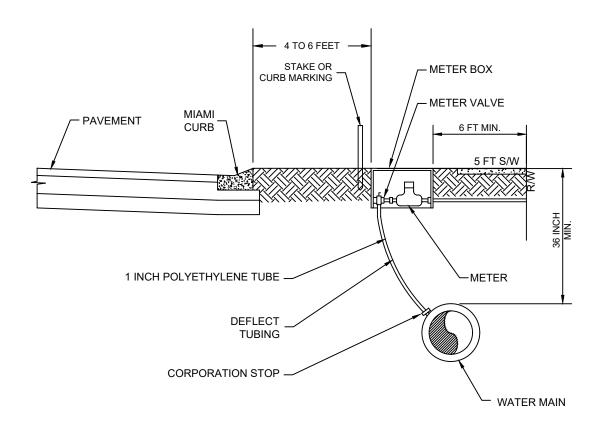


Exhibit No.W-3D



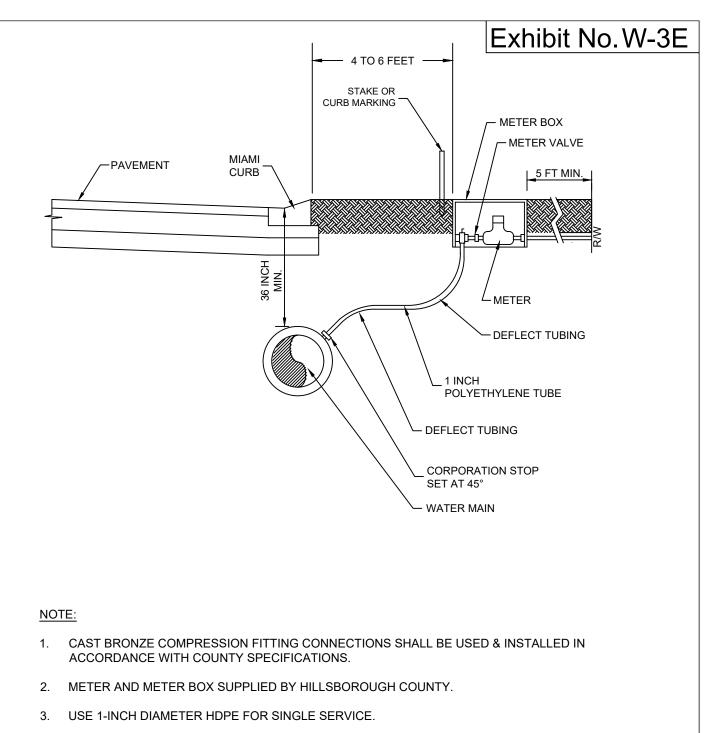
NOTE:

- 1. CAST BRONZE COMPRESSION FITTING CONNECTIONS SHALL BE USED & INSTALLED IN ACCORDANCE WITH COUNTY SPECIFICATIONS.
- 2. METER AND METER BOX SUPPLIED BY HILLSBOROUGH COUNTY.
- 3. USE 1-INCH DIAMETER HDPE FOR SINGLE SERVICE.
- 4. REDUCE HDPE AT THE METER WITH A BRASS REDUCER.
- 5. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
- 6. EACH SERVICE SHALL TERMINATE AT A METER VALVE WHICH SHALL BE BURIED 6 INCHES, ± 1 INCH, BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2 INCH x 2 INCH x 18 INCH STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE LOT NUMBER SERVED.

RESIDENTIAL METER SERVICE INSTALLATION (METER OVER MAIN) HILLSBOROUGH COUNTY, FLORIDA

10/2021

SCALE: N.T.S.

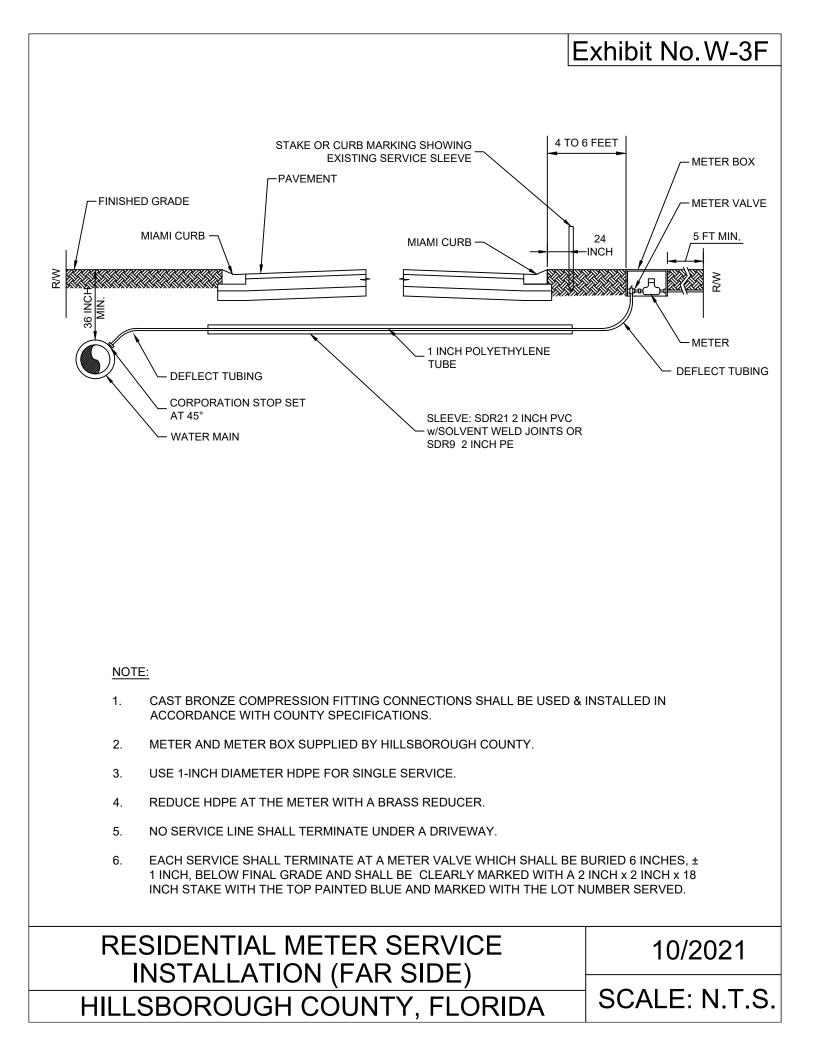


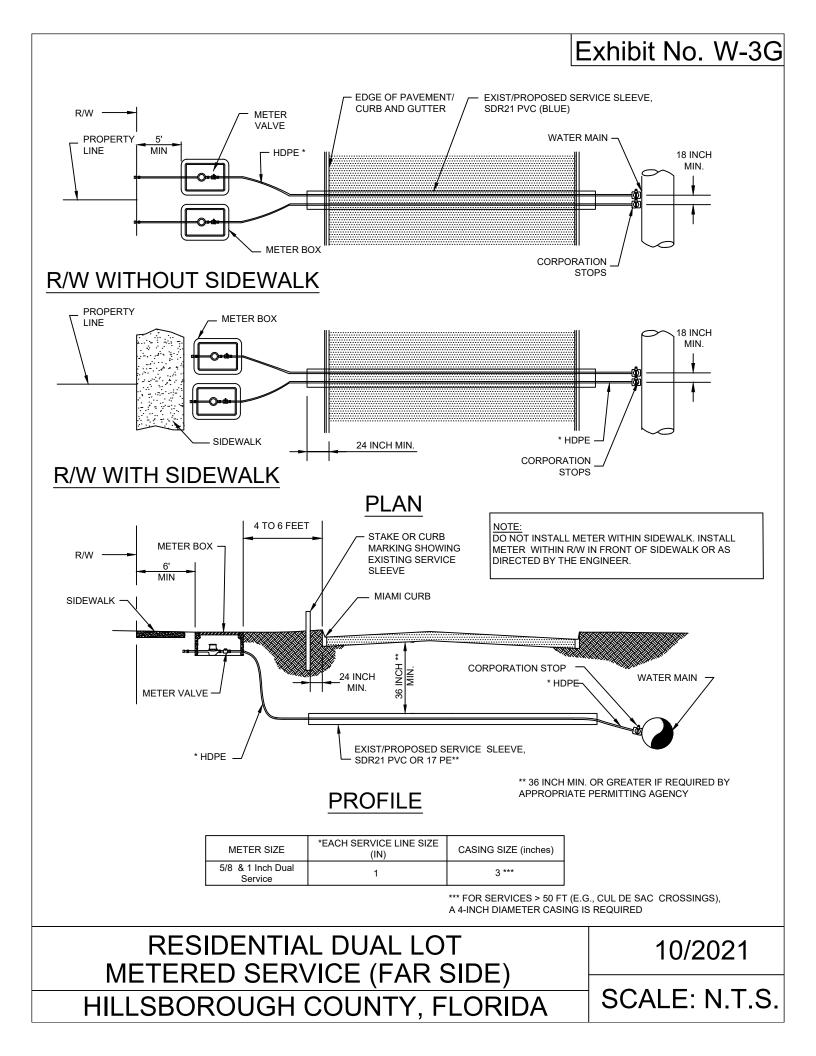
- 4. REDUCE HDPE AT THE METER WITH A BRASS REDUCER.
- 5. NO SERVICE LINE SHALL TERMINATE UNDER A DRIVEWAY.
- 6. EACH SERVICE SHALL TERMINATE AT A METER VALVE WHICH SHALL BE BURIED 6 INCHES, ± 1 INCH, BELOW FINAL GRADE AND SHALL BE CLEARLY MARKED WITH A 2 INCH x 2 INCH x 18 INCH STAKE WITH THE TOP PAINTED BLUE AND MARKED WITH THE LOT NUMBER SERVED.

RESIDENTIAL METER SERVICE INSTALLATION (NEAR SIDE) HILLSBOROUGH COUNTY, FLORIDA

10/2021

SCALE: N.T.S.





HILLSBOROUGH COUNTY, FLORIDA

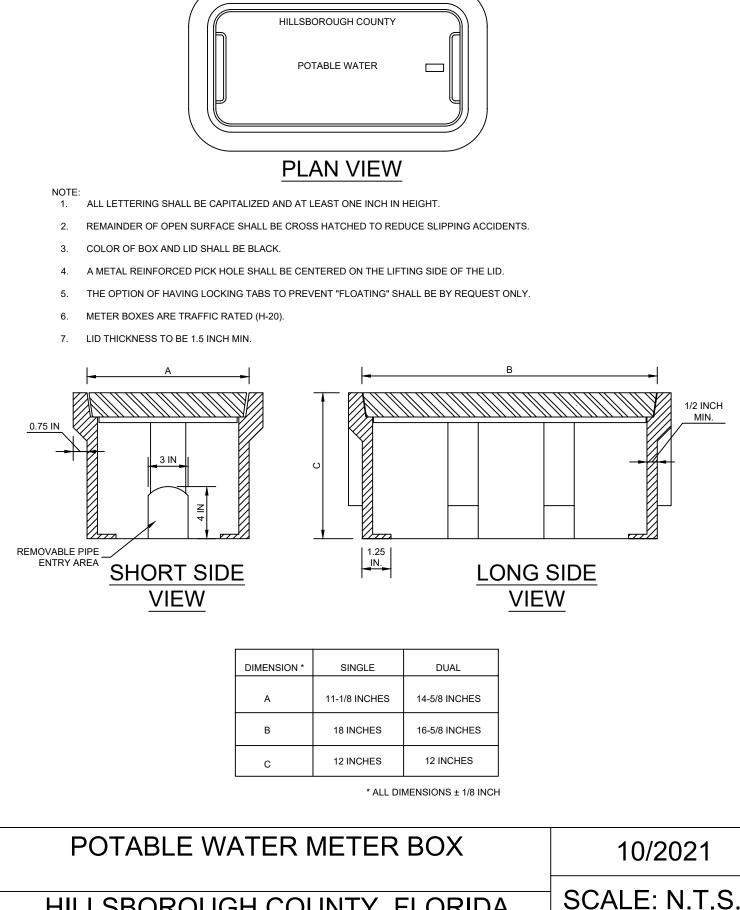
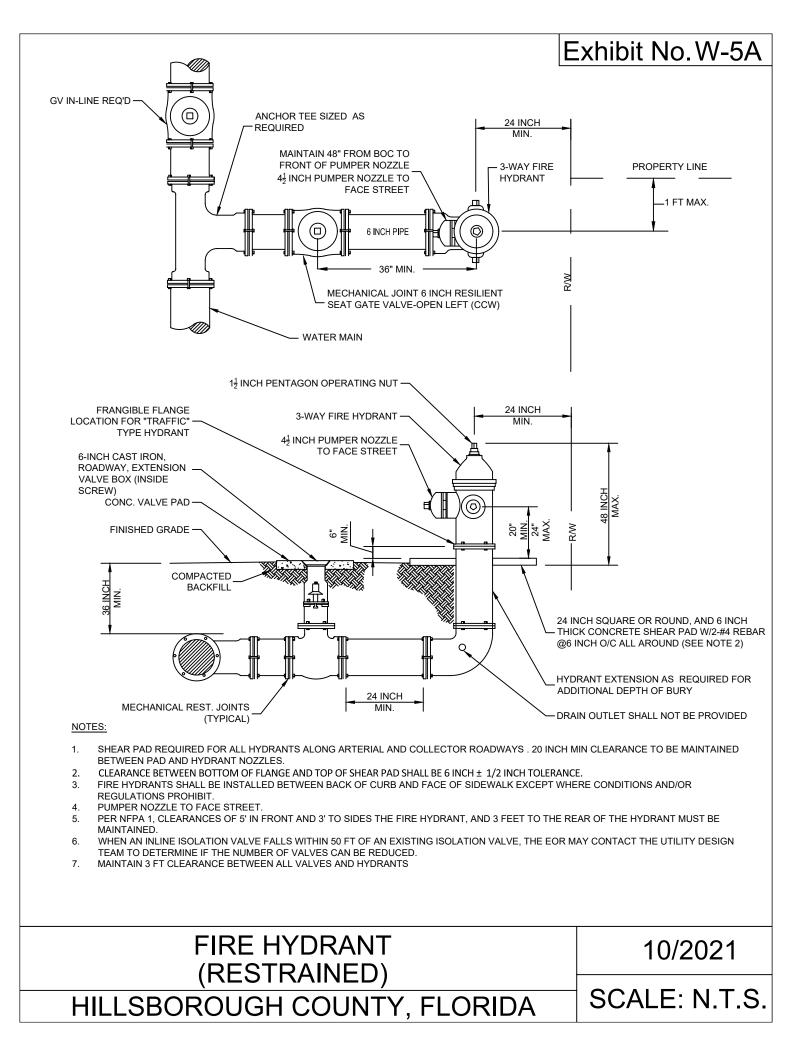
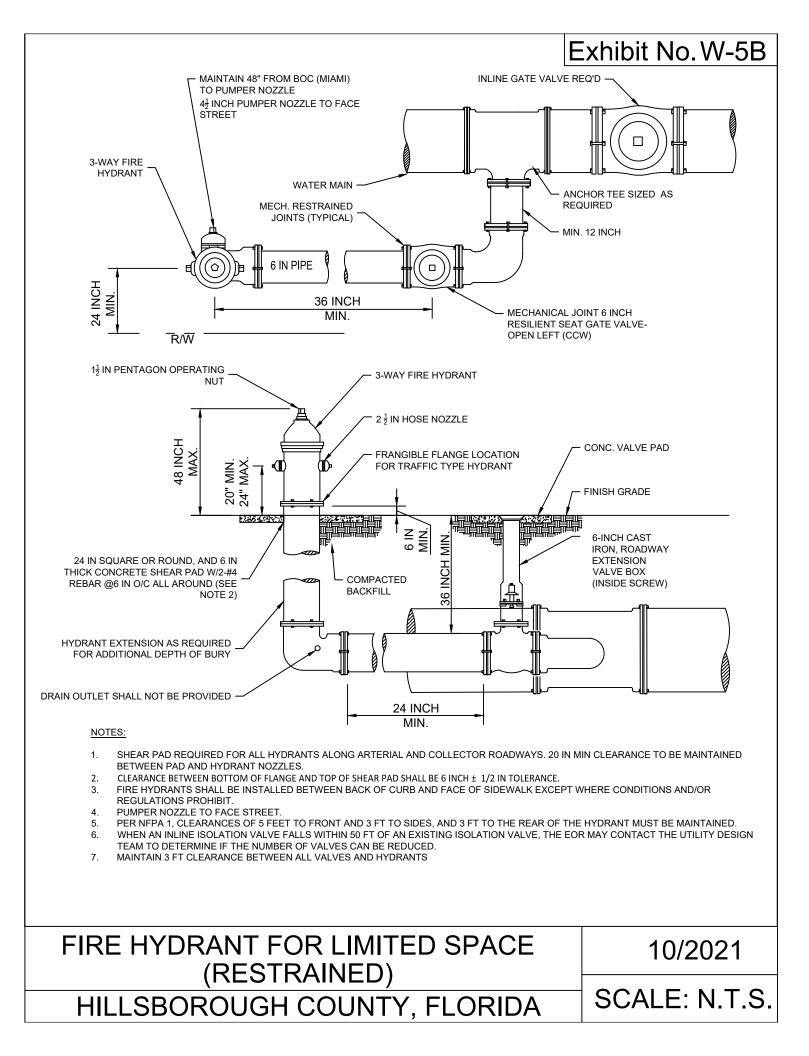


Exhibit No.W-4





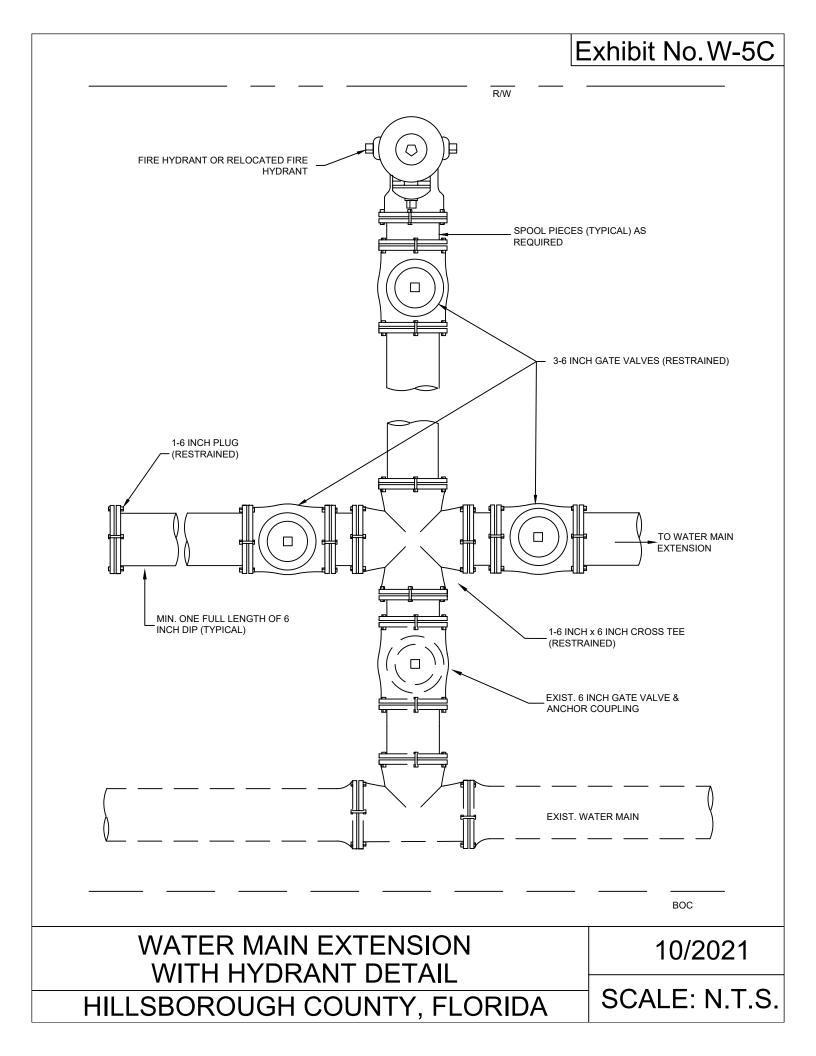
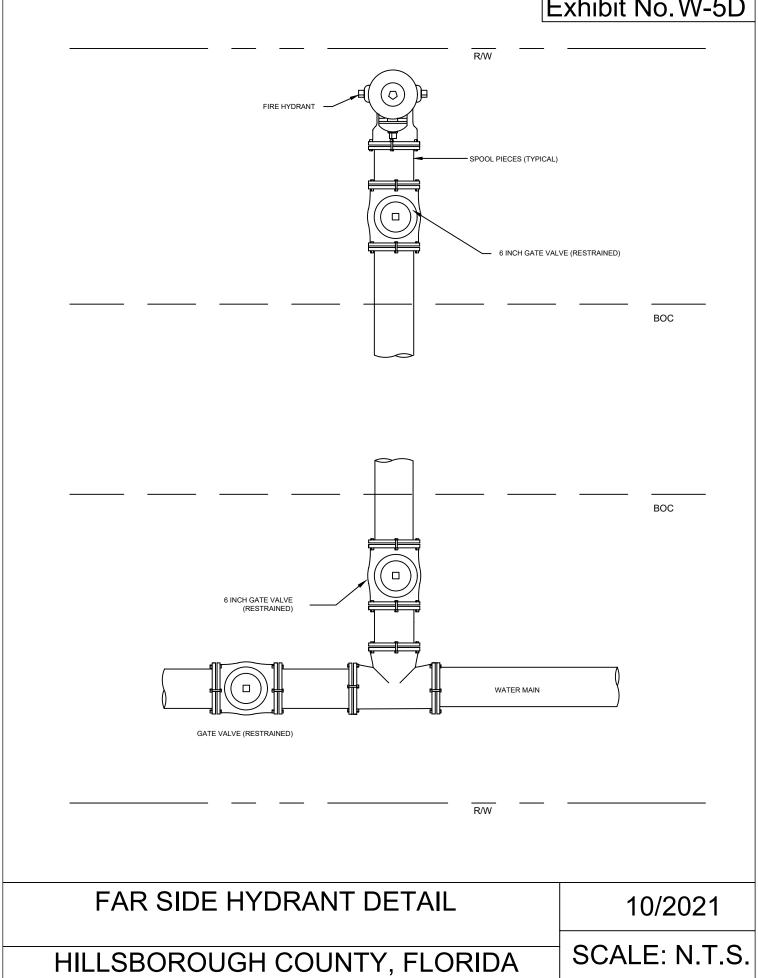


Exhibit No.W-5D



HILLSBOROUGH COUNTY, FLORIDA

10/2021

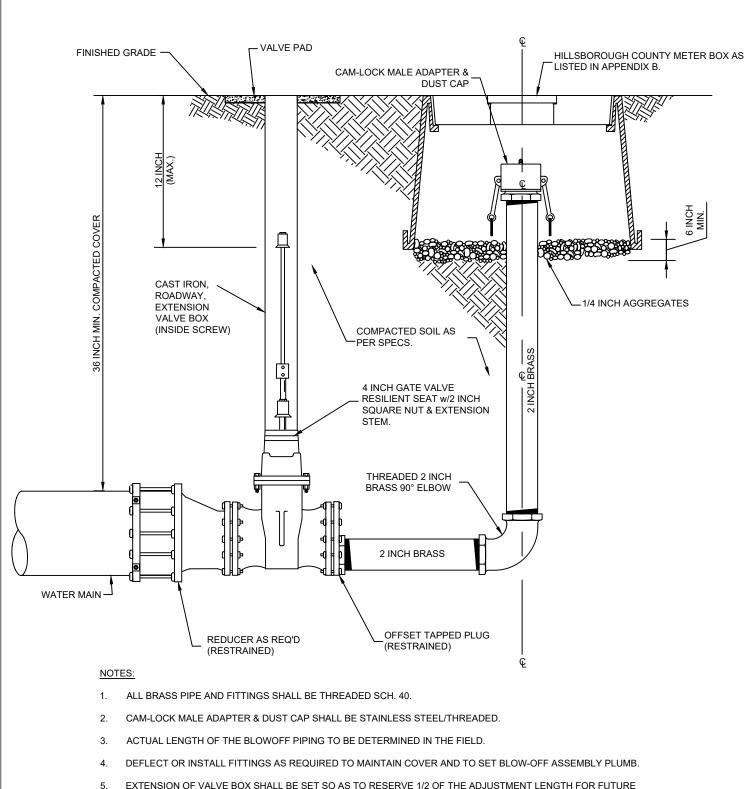
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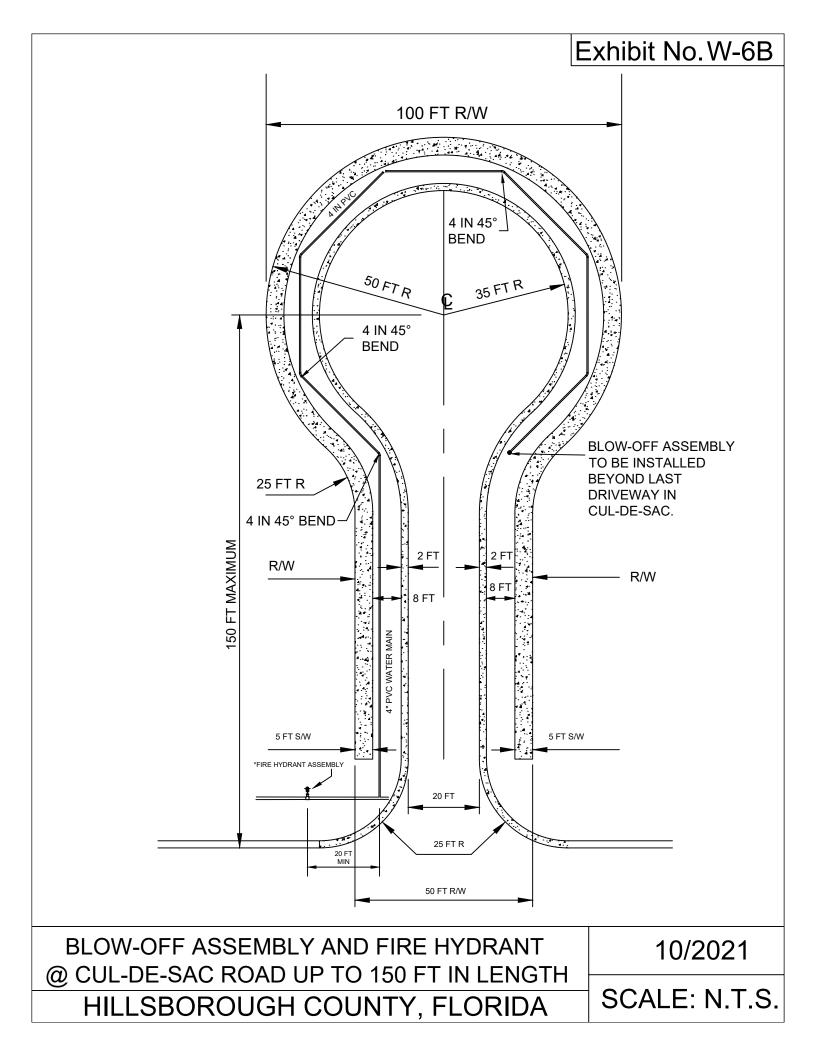
Exhibit No.W-6A

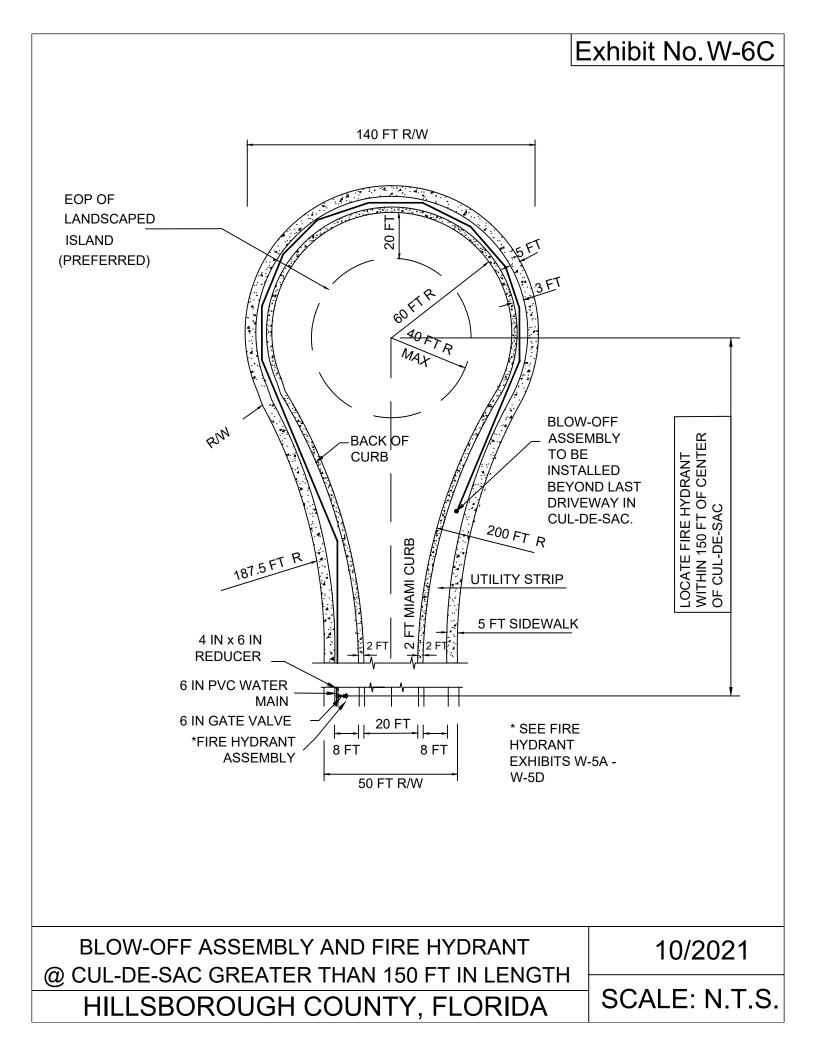
BLOWOFF ASSEMBLY

6. A FULL SIZE IN-LINE VALVE MAY BE USED AT PROJECT PHASE LINES. THE VALVE MAY REQUIRE RELOCATION, IF THE VALVE FALLS WITHIN CONCRETE IN THE NEXT PHASE.

 EXTENSION OF VALVE BOX SHALL BE SET SO AS TO RESERVE 1/2 OF THE ADJUSTMENT LENGTH FOR FUTURE USE.

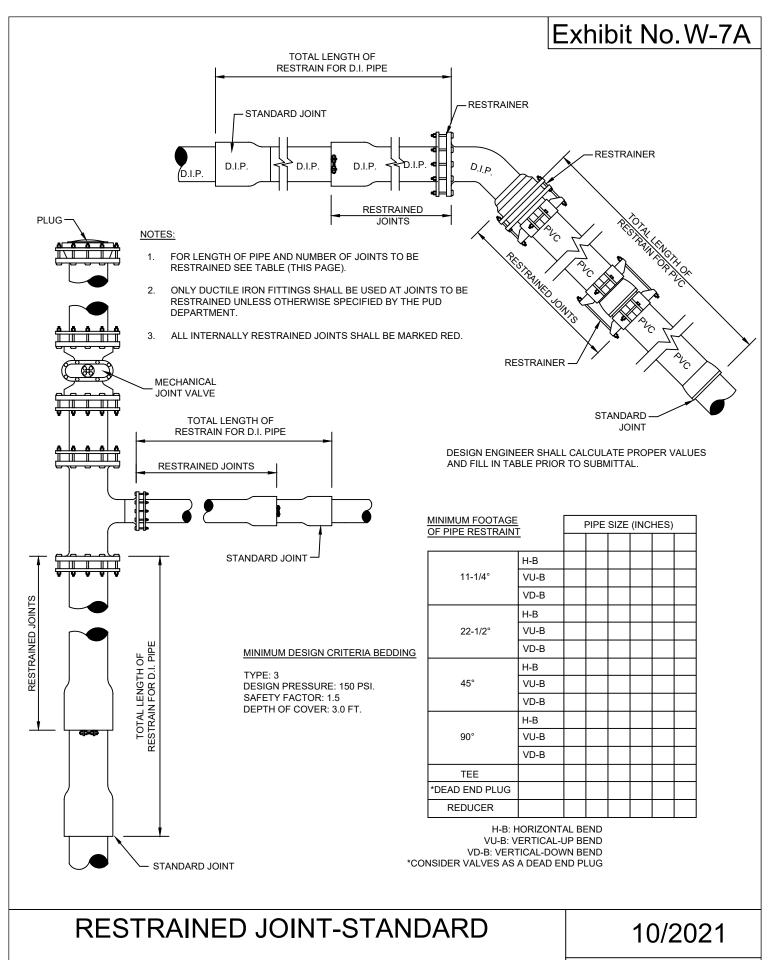


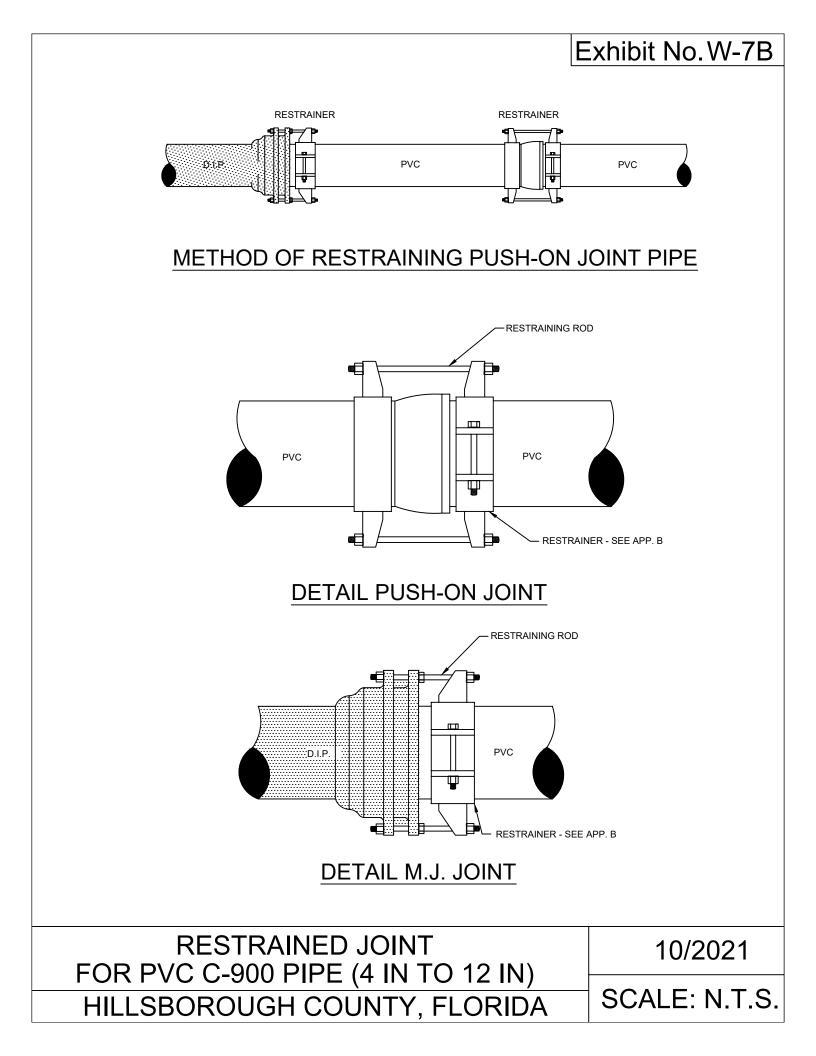


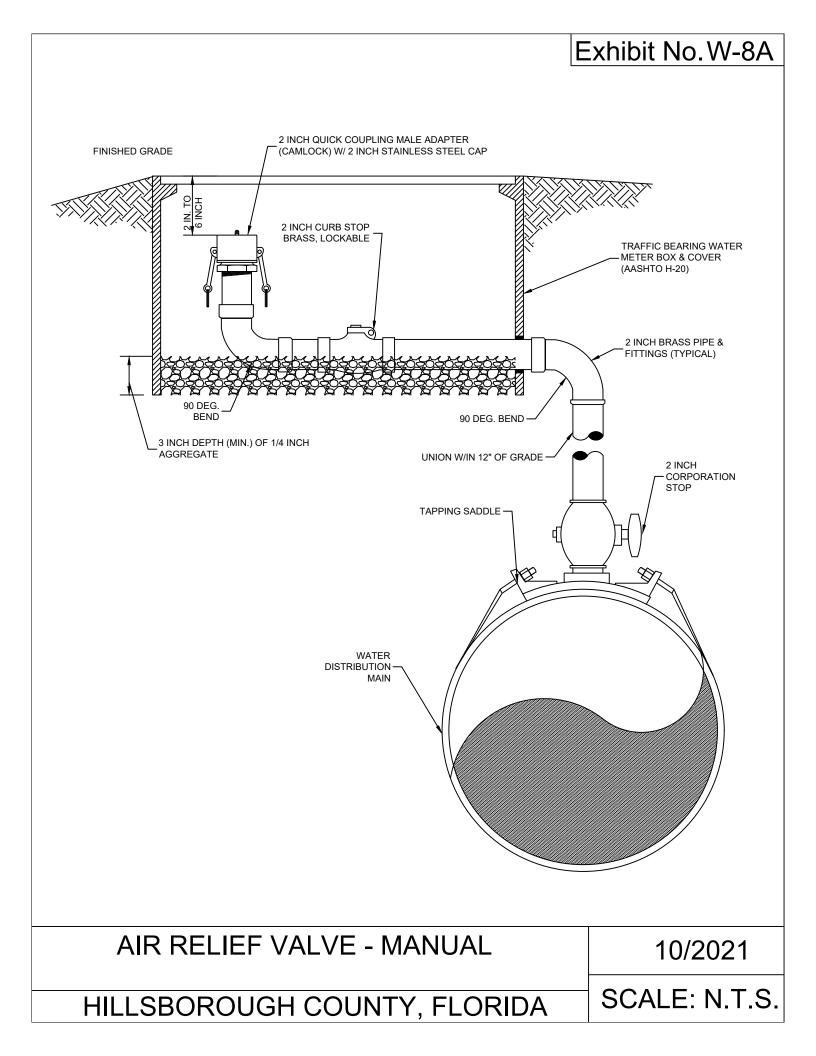


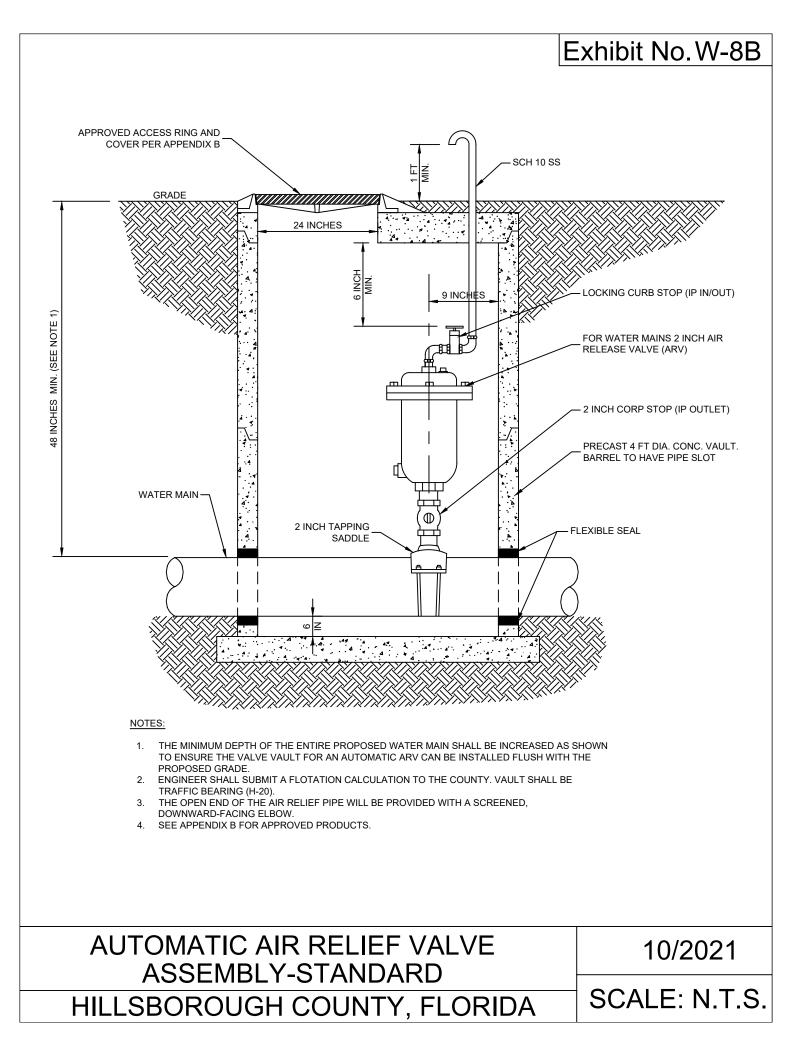


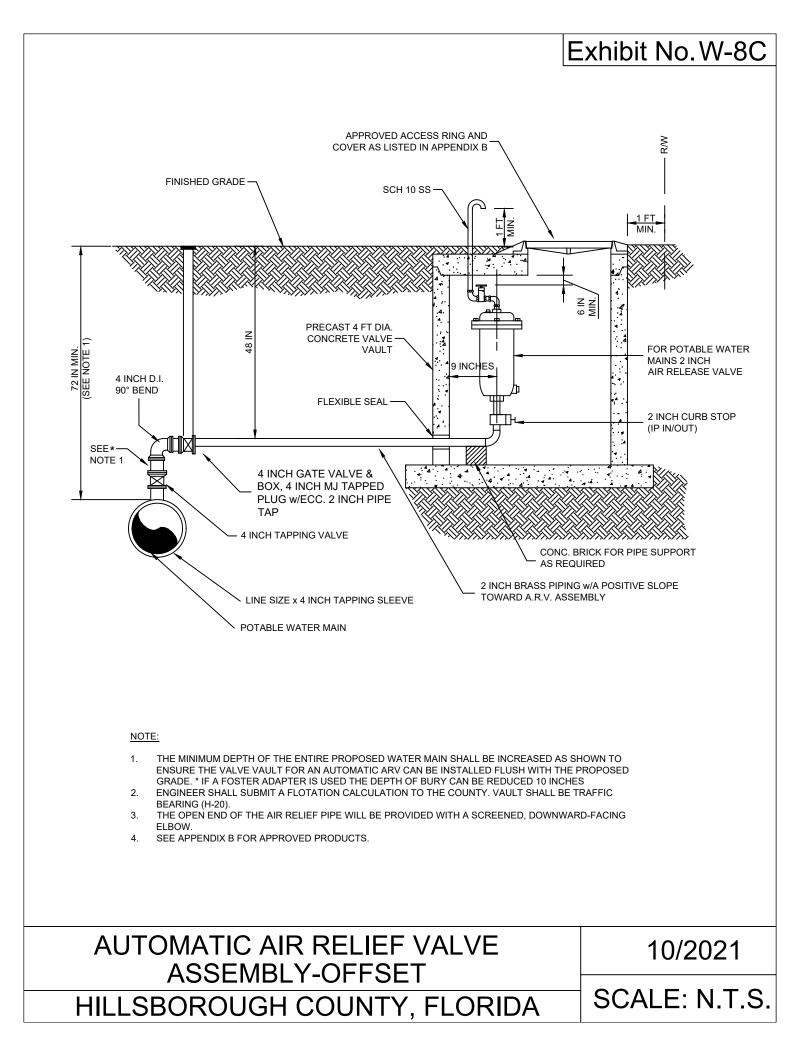


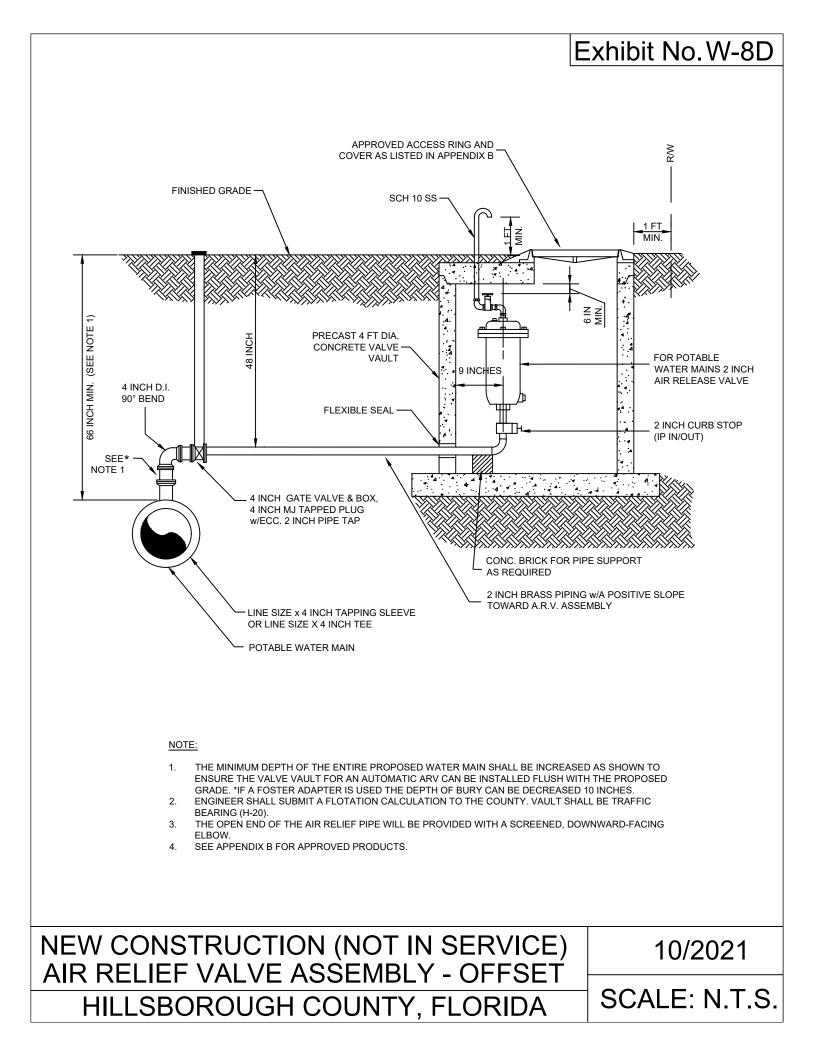


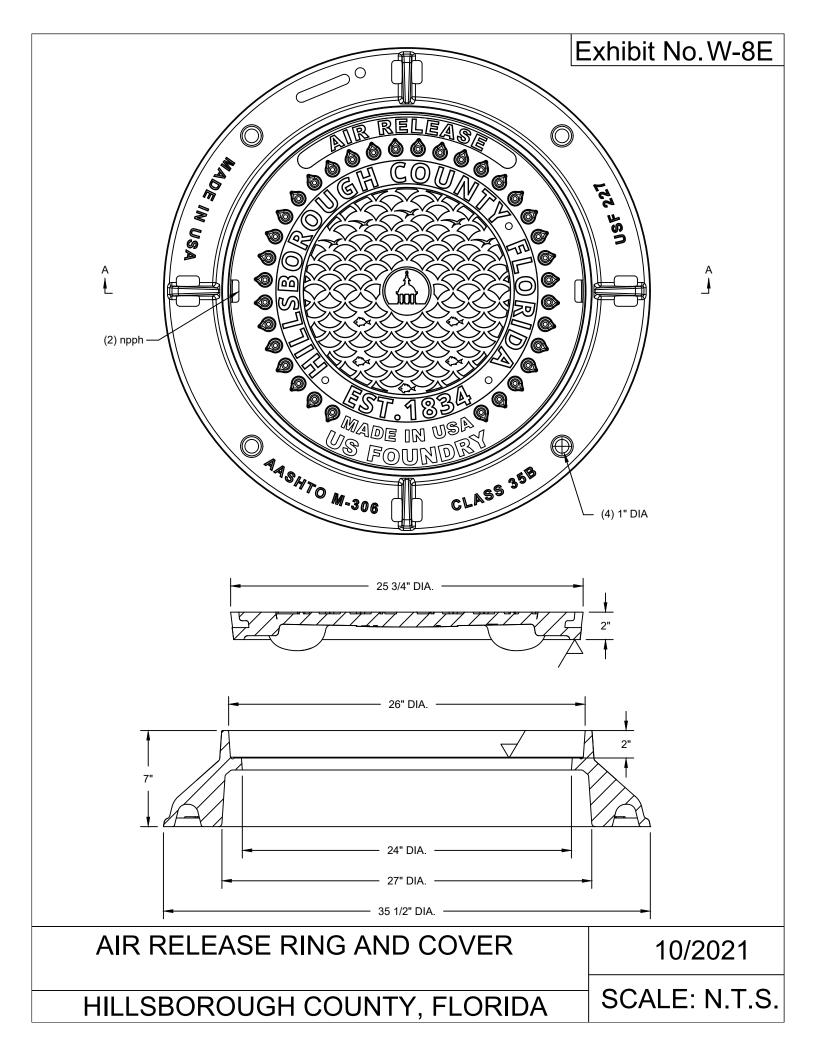


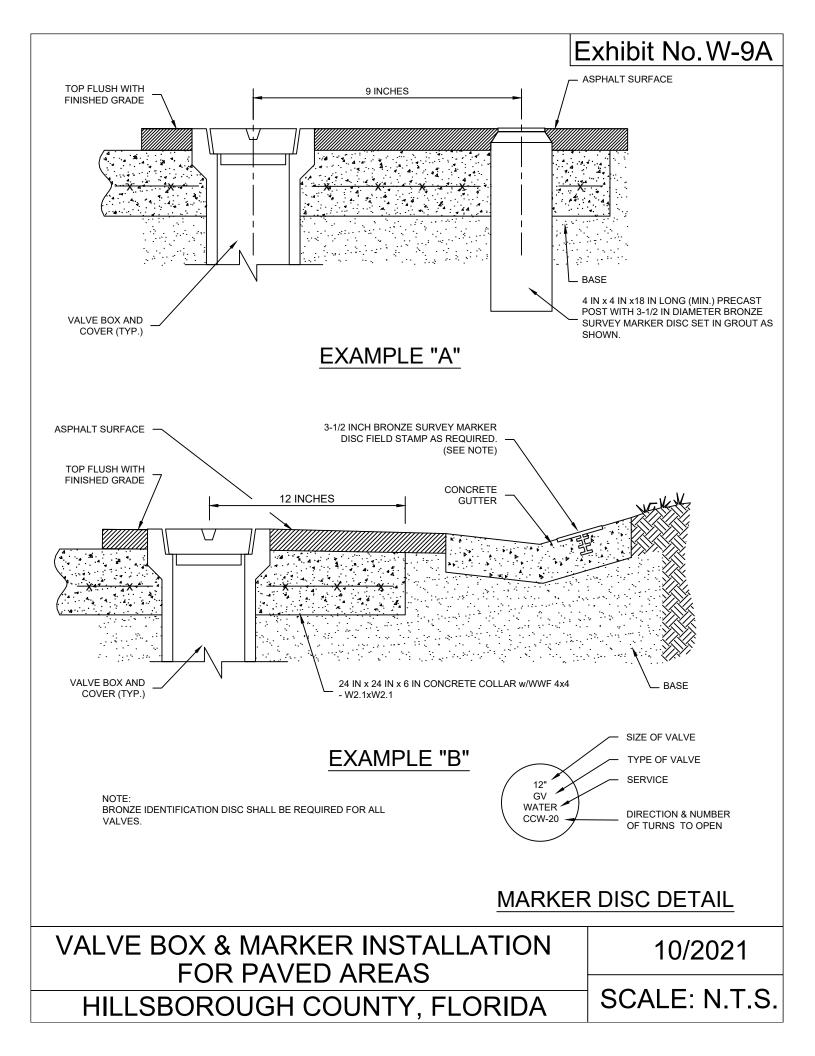


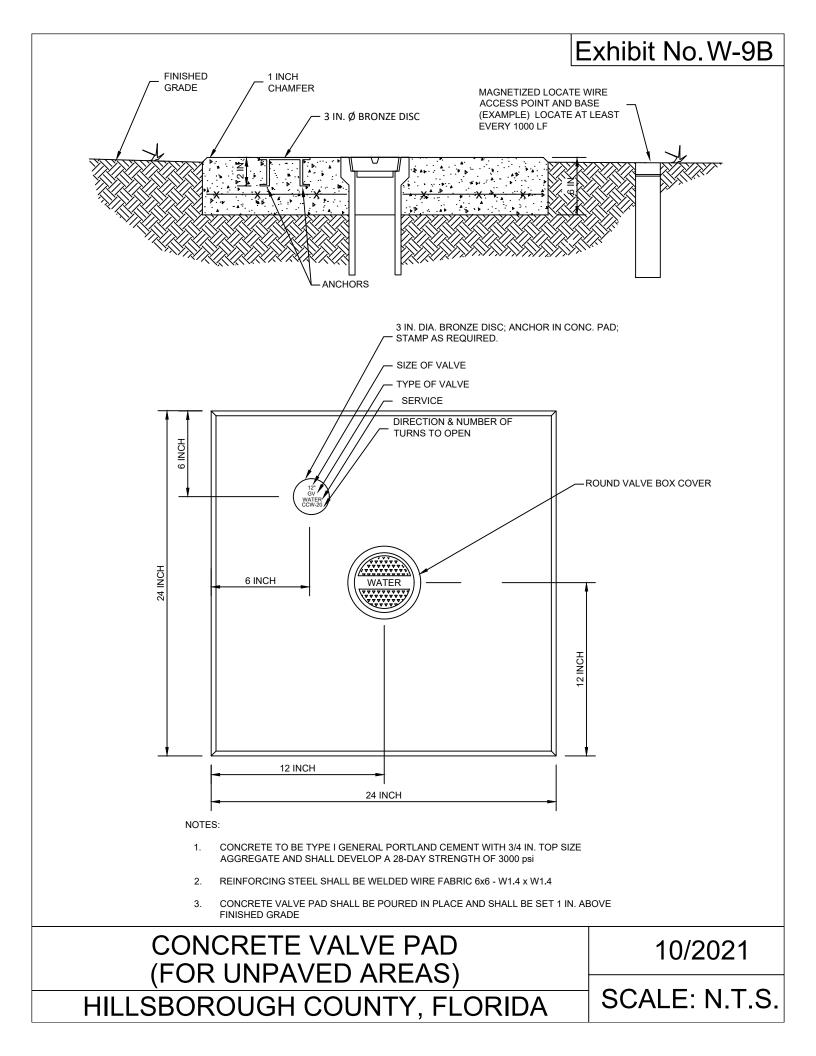


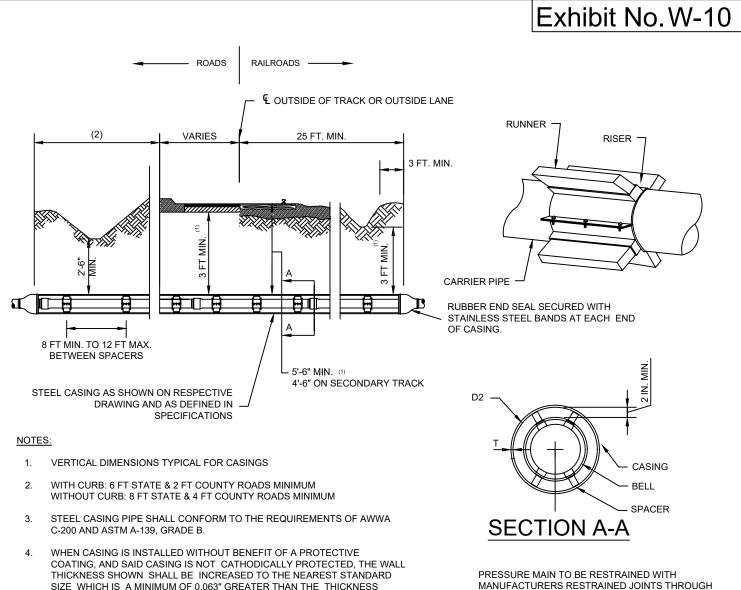












SHOWN EXCEPT FOR DIAMETERS LESS THAN 12.75 IN.

5. FOR REFERENCE ONLY.

PRESSURE MAIN TO BE RESTRAINED WITH MANUFACTURERS RESTRAINED JOINTS THROUGH CASING. USE (3) SS CASING SPACER CENTERED ON EACH PIPE LENGTH.

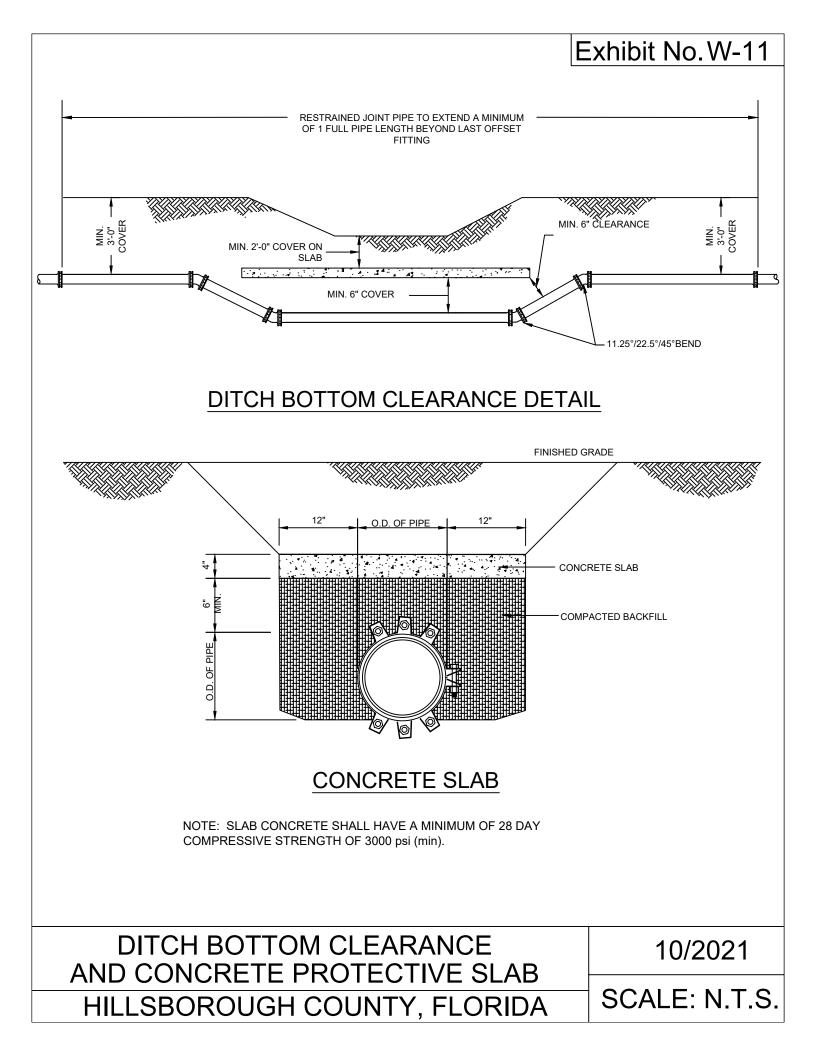
MINIMUM CASING SIZE AND THICKNESS (INCHES)																		
D.I.PM.J.	—	—	4	6	—	8	10	12	14	16	18	20	—	24	30	36	42	48
D.I.PP.O.	—	4	—	6	8	10	12	—	14	16	18	20	24	—	30	36	42	48
PVC	—	4	6	—	8	10	12	—	—	—	—	—	—	—	—	—	—	
PVC FUSIBLE	4	6	8	10	12	—	—	—	—	—	_		—	—	—	—	—	
(3) STEEL CASING PIPE (D2)	10 (5)	12	14	16	18	20	24	24	30	30	30	36	36	42	48	54	60	66
WALL THICKNESS (T) ROADS	.188	.188	.25	.25	.25	.25	.25	.25	.312	.312	.312	.375	.375	.5	.5	.5	.5	.5
(4) WALL THICKNESS (T) R.R.	.188	.188	.188	.219	.25	.281	312	.312	.406	.406	.406	.469	.469	.562	.625	.719	.781	.875

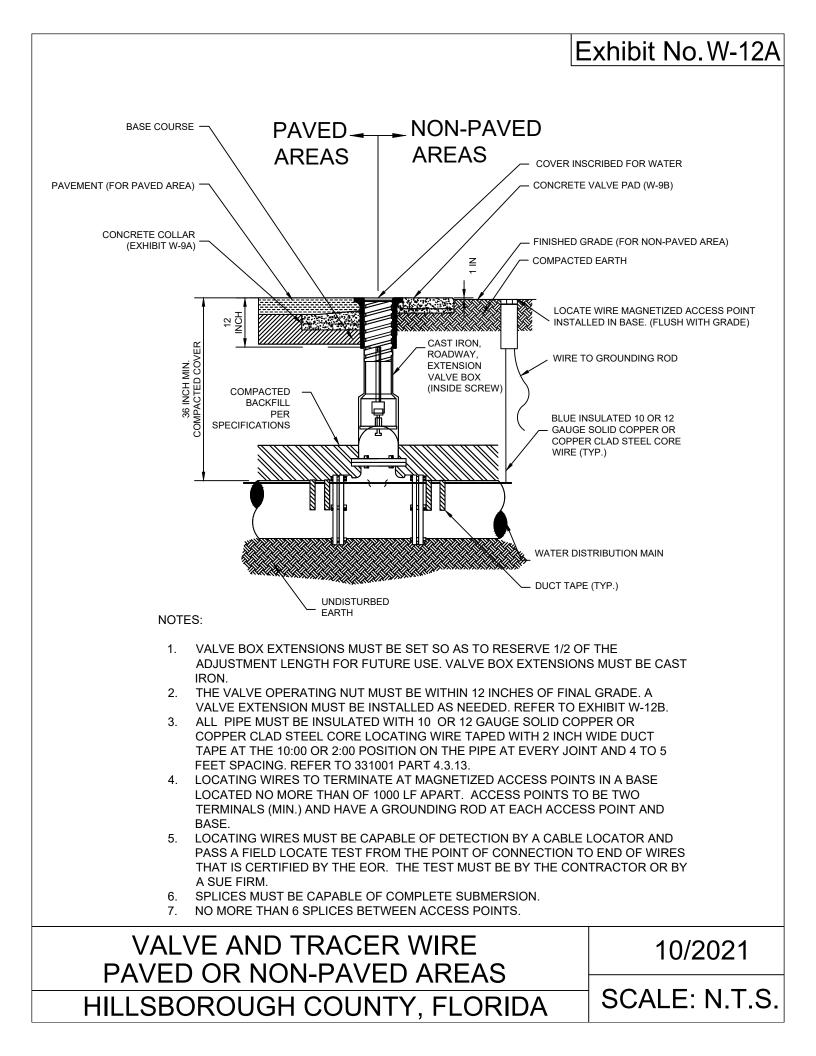
JACK & BORE HILLSBOROUGH COUNTY, FLORIDA

CASING DETAILS

10/2021

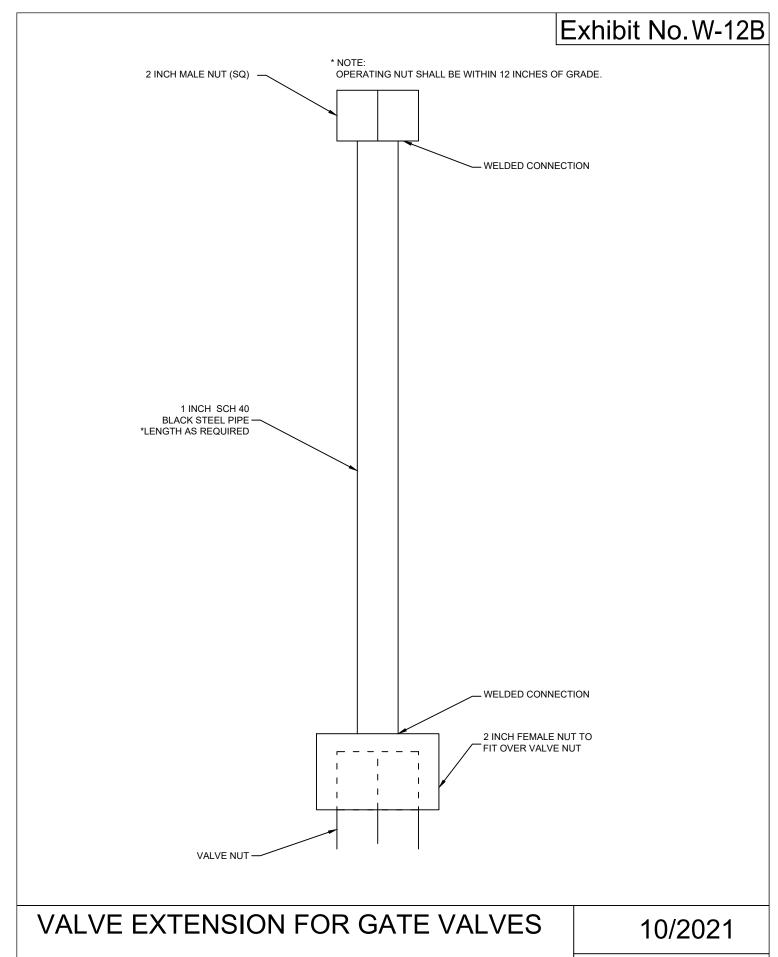
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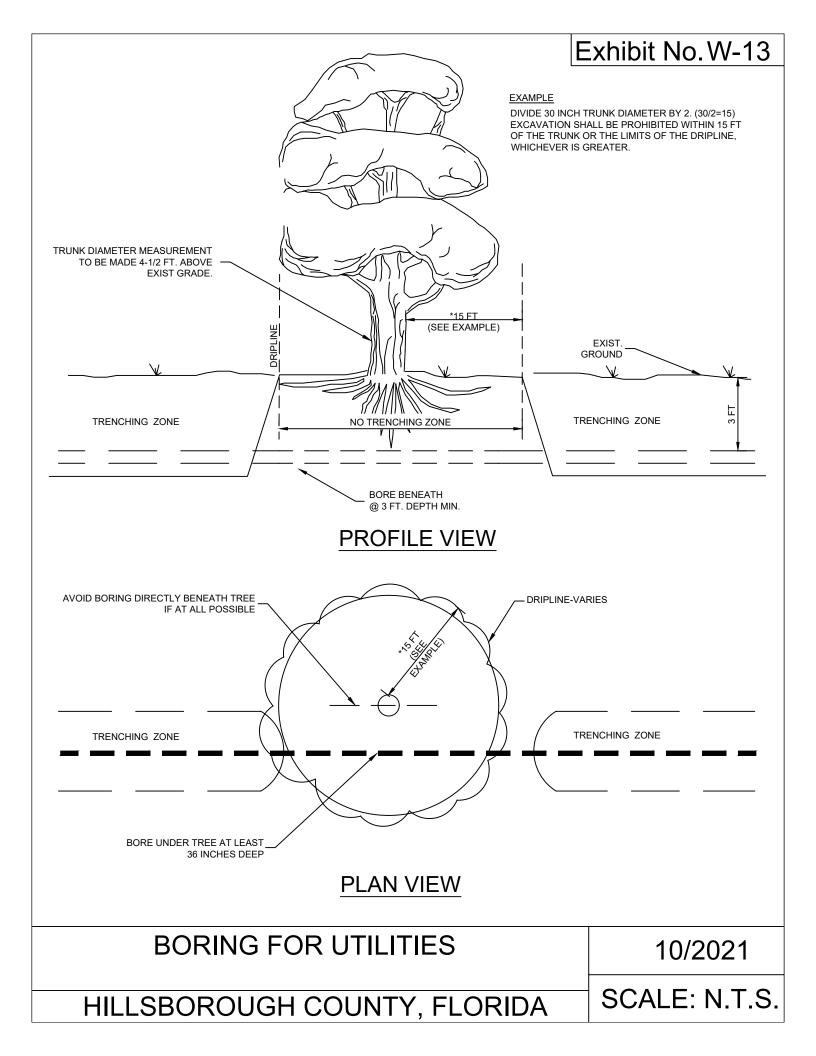


Exhibit No.W-14

