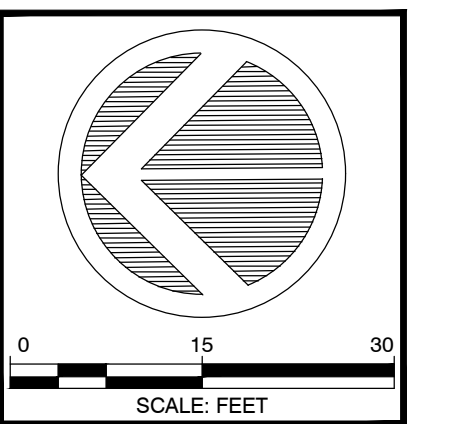


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**WATER MAIN
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PHASE 5
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 224 +55 THRU 228 +85

CHRISTOPHER F. KUZLER
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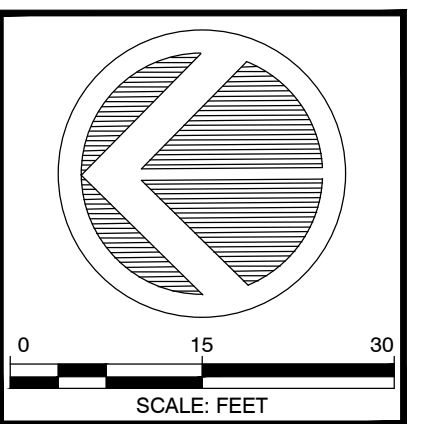
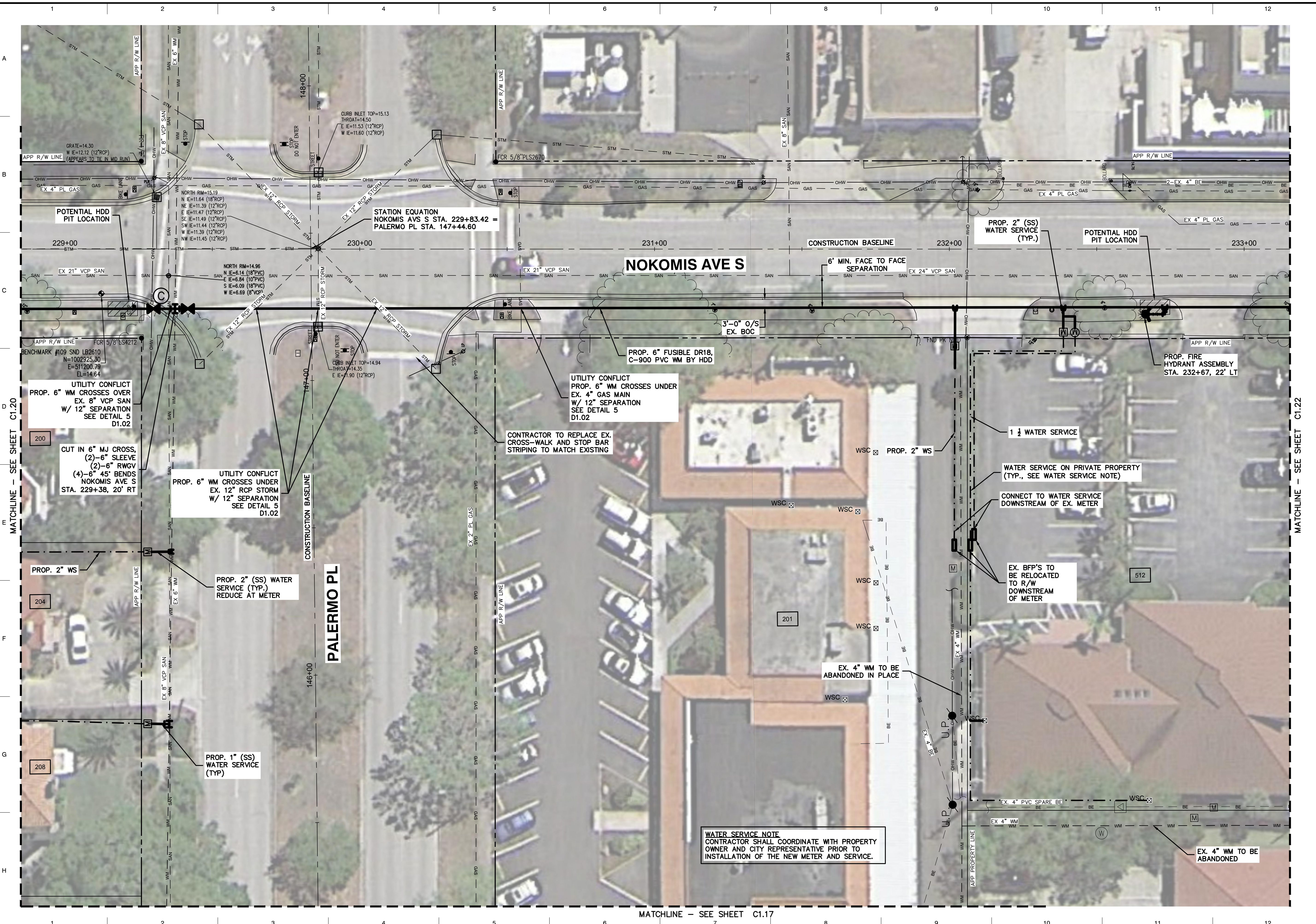
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C1.20

BID DOCUMENTS
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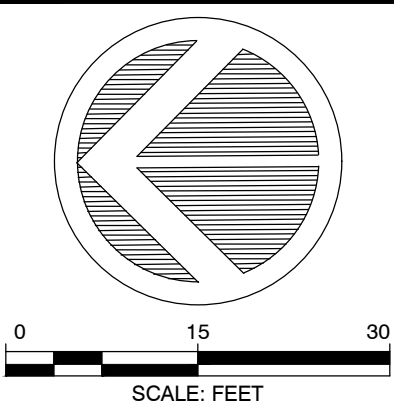
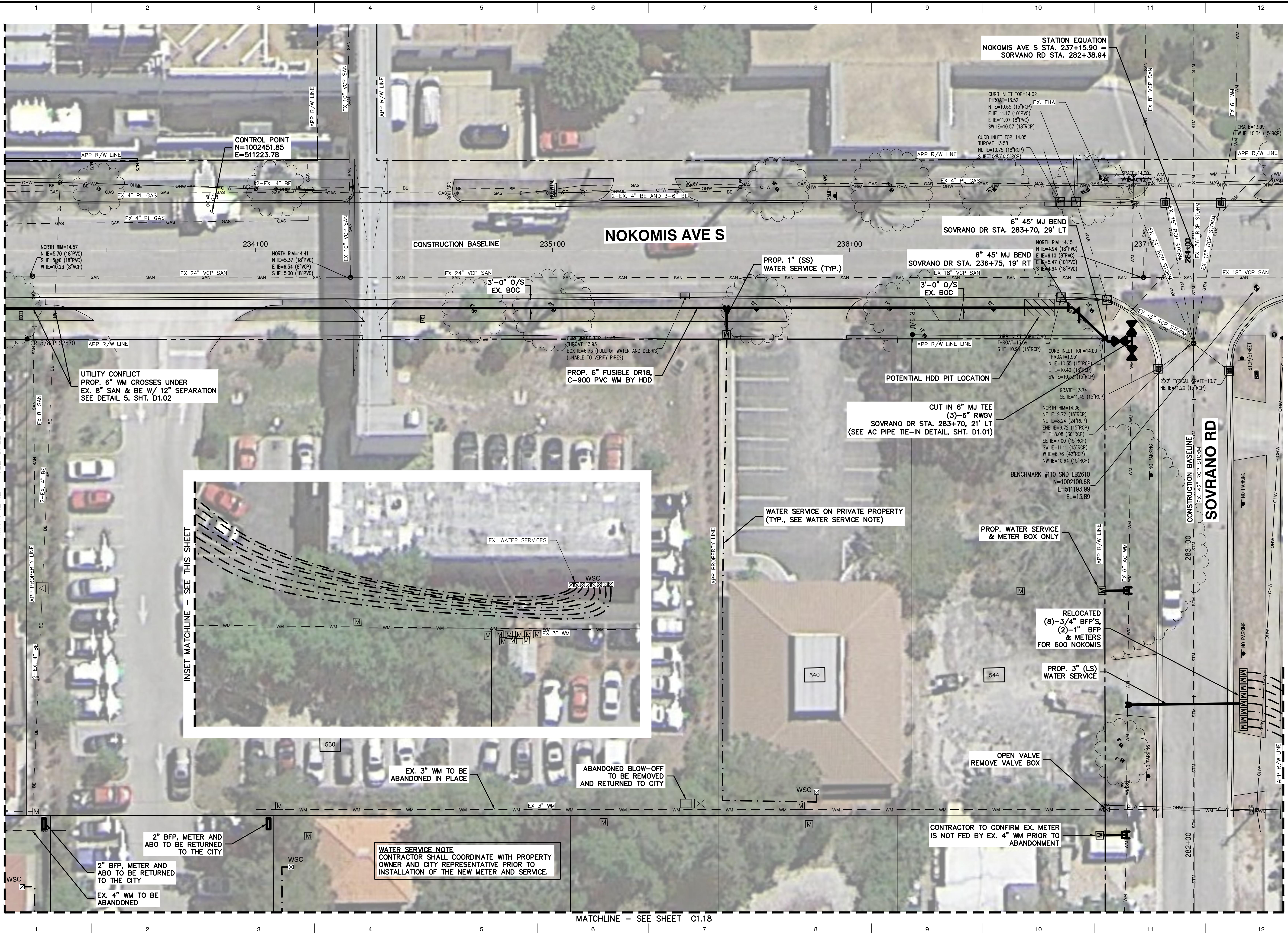
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DATE: 10/26/2017
SCALE: AS SHOWN

C1.21
BID DOCUMENTS
10/26/2017

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MATCHLINE - SEE SHEET C1.21

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WATER MAIN REPLACEMENT PROGRAM
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 THRU STA. 237+46

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JOB NO: 4799-010-000
 DATE: 10/26/2017
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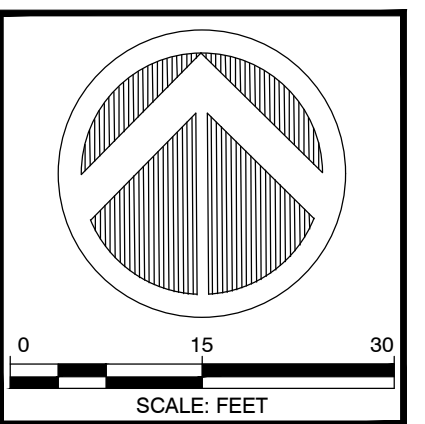
C1.22
 BID DOCUMENTS
 10/26/2017

MATCHLINE - SEE SHEET C1.18

INSET MATCHLINE - SEE THIS SHEET

01ENV_ENG4799/010000/Production Drawings/SHEETS C1.15 - C1.20.dwg

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WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
 S TAMIAAMI TRAIL STA. 331 +26 THRU STA. 335 +48

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JOB NO: 4799-010-000
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C1.23

BID DOCUMENTS
 10/26/2017

WATER SERVICE NOTE
 CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND CITY REPRESENTATIVE PRIOR TO INSTALLATION OF THE NEW METER AND SERVICE.

CAP & PLUG EX. 4" WM
 DOWNSTREAM OF EX. METER CONNECTION
 RESTRAIN BACK TO EX. 4" VALVE,
 INSTALL REVERSE DEADMAN

EX. 4" WM TO
 BE ABANDONED

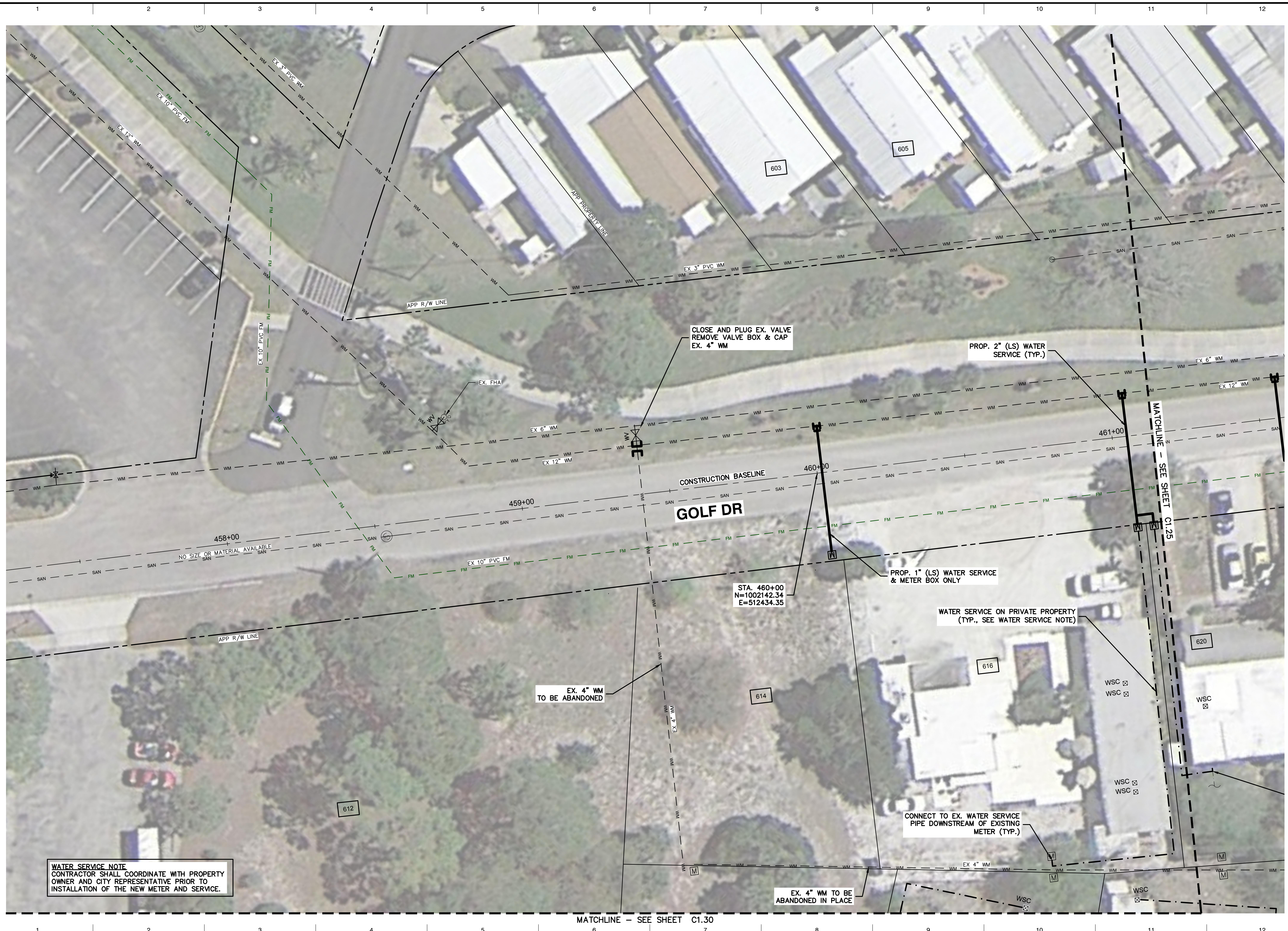
INSTALL 4"
 INSERT-VALVE
 STA. 332+47, 8' LT

ISOLATION VALVE (TYP.)

MATCHLINE - SEE SHEET C1.20

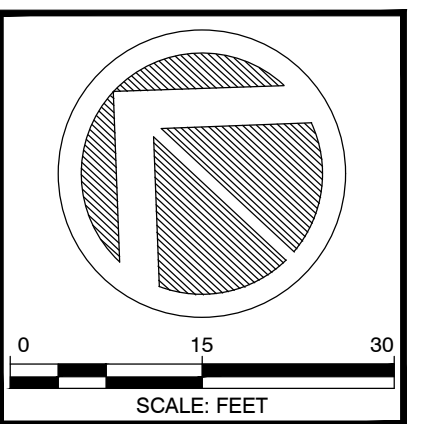
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WATER SERVICE NOTE
 CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND CITY REPRESENTATIVE PRIOR TO INSTALLATION OF THE NEW METER AND SERVICE.

MATCHLINE - SEE SHEET C1.30



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WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
 GOLF DR. STA. 458+00 THRU STA. 461+14

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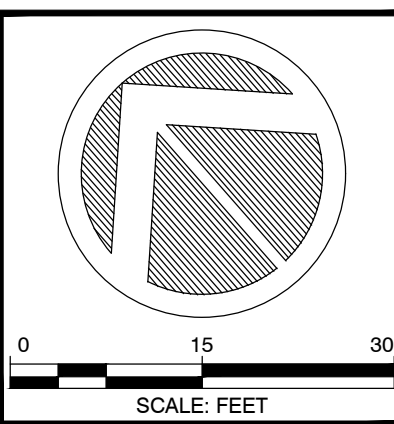
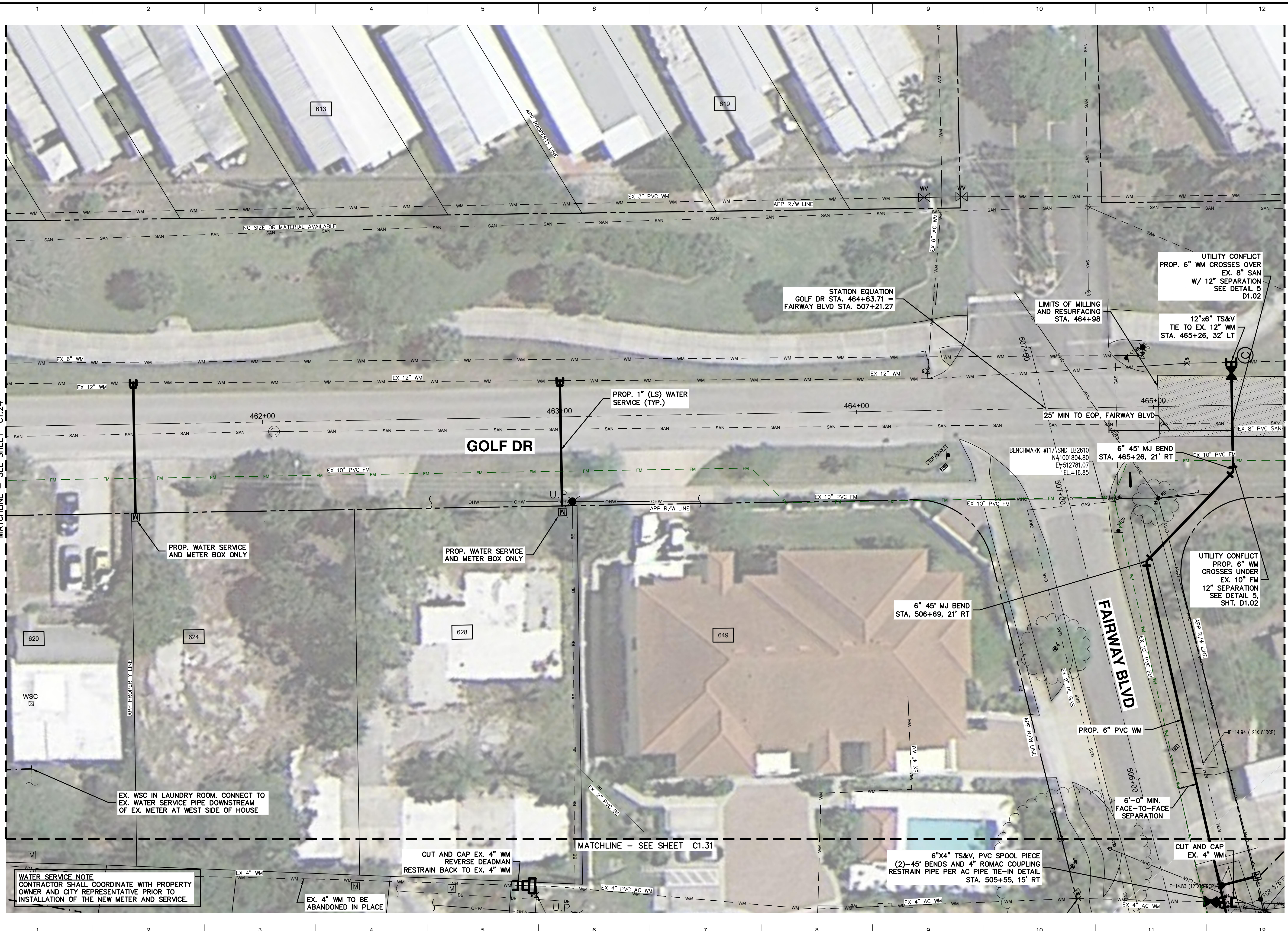
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C1.24

BID DOCUMENTS
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CIENV_ENG4799(01000)Production Drawings SHEETS C1.24 - C1.26.dwg

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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 GOLF DR. STA. 461+14 THRU STA. 465+44
 & FAIRWAY BLVD. STA. 505+79 THRU STA. 507+21

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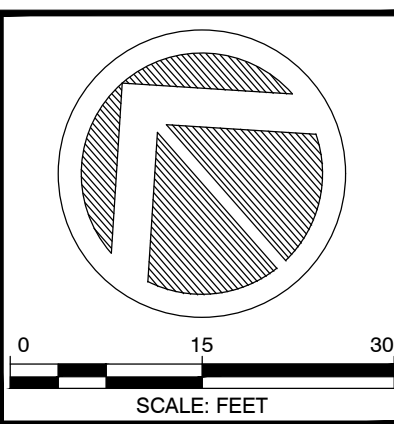
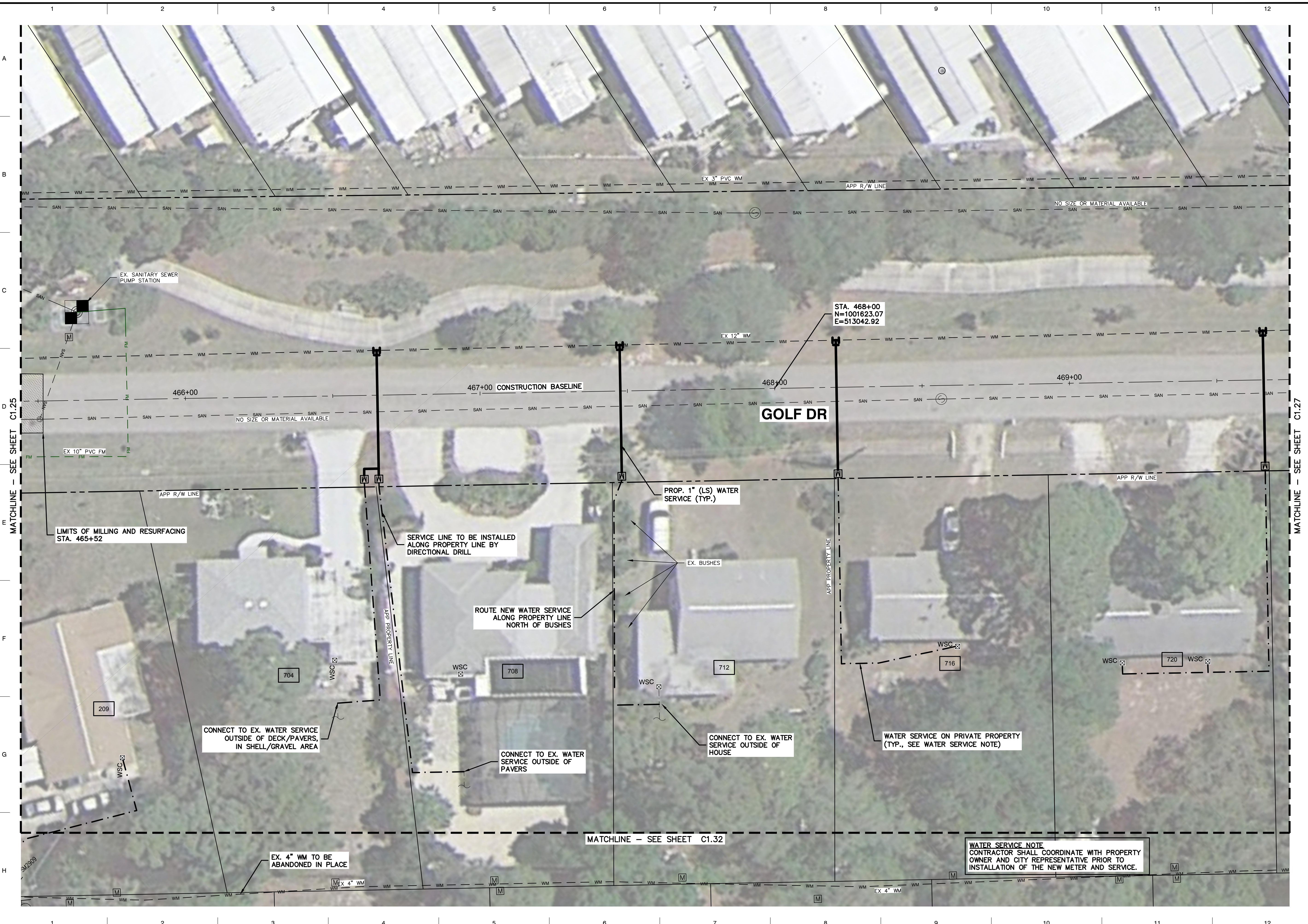
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 SCALE: AS SHOWN

C1.25

BID DOCUMENTS
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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 GOLF DR. STA. 465+44 THRU STA. 469+75

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JOB NO: 4799-010-000
 DATE: 10/26/2017
 SCALE: AS SHOWN

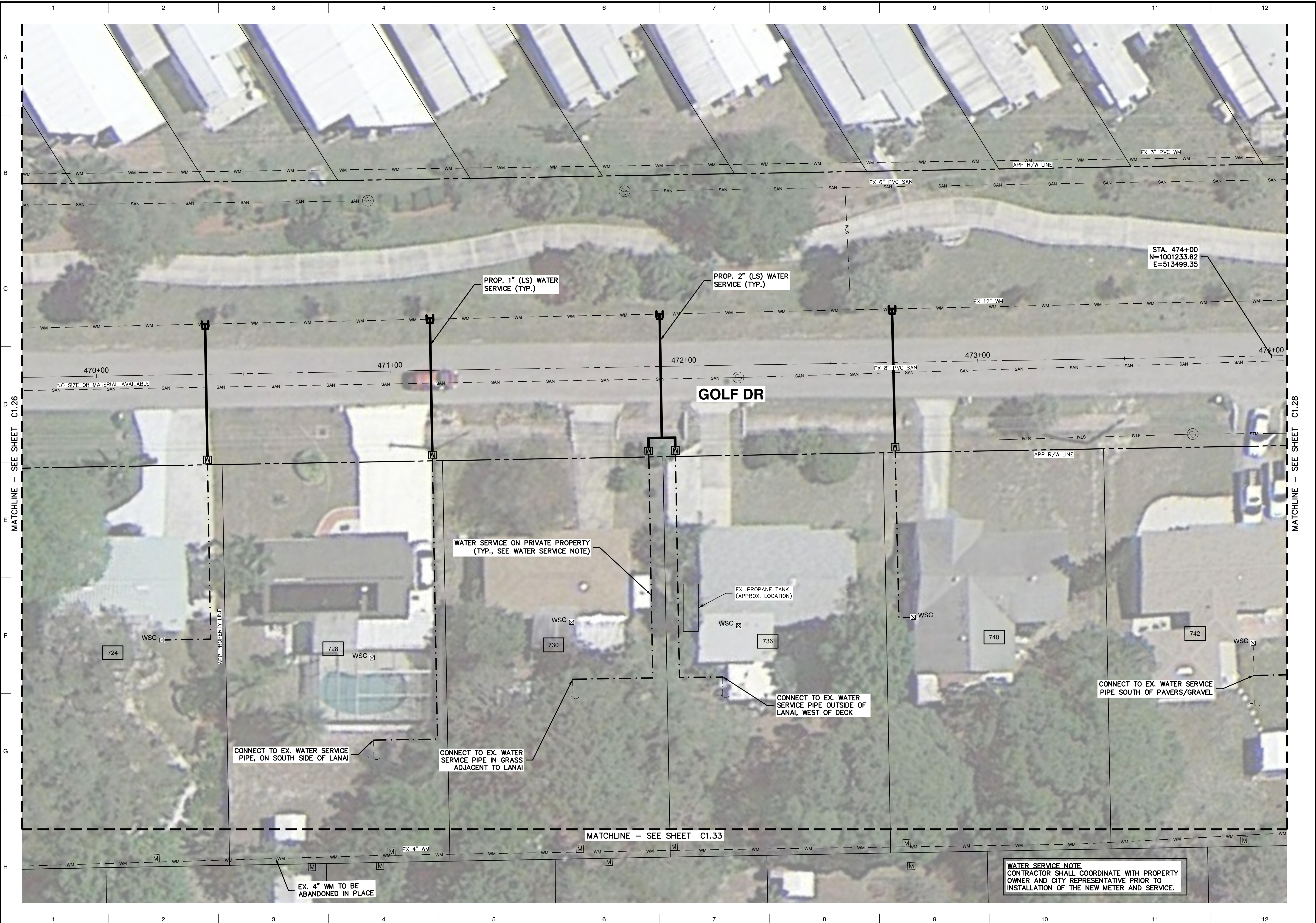
C1.26

BID DOCUMENTS
 10/26/2017

WATER SERVICE NOTE
 CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND CITY REPRESENTATIVE PRIOR TO INSTALLATION OF THE NEW METER AND SERVICE.

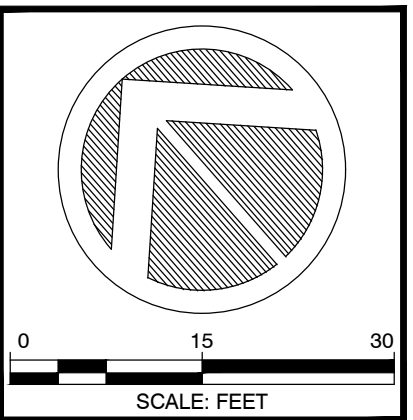
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MATCHLINE - SEE SHEET C1.26

MATCHLINE - SEE SHEET C1.28



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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 GOLF DR. STA. 469+75 THRU STA. 474+05

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JOB NO: 4799-010-000
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 SCALE: AS SHOWN

C1.27

BID DOCUMENTS
 10/26/2017

WATER SERVICE NOTE
 CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND CITY REPRESENTATIVE PRIOR TO INSTALLATION OF THE NEW METER AND SERVICE.

MATCHLINE - SEE SHEET C1.33

CONNECT TO EX. WATER SERVICE PIPE, ON SOUTH SIDE OF LANAI

CONNECT TO EX. WATER SERVICE PIPE IN GRASS ADJACENT TO LANAI

CONNECT TO EX. WATER SERVICE PIPE OUTSIDE OF LANAI, WEST OF DECK

CONNECT TO EX. WATER SERVICE PIPE SOUTH OF PAVERS/GRAVEL

WATER SERVICE ON PRIVATE PROPERTY (TYP., SEE WATER SERVICE NOTE)

EX. PROPANE TANK (APPROX. LOCATION)

STA. 474+00
 N=1001233.62
 E=513499.35

PROP. 1" (LS) WATER SERVICE (TYP.)

PROP. 2" (LS) WATER SERVICE (TYP.)

470+00

471+00

472+00

473+00

474+00

GOLF DR

724

728

730

736

740

742

APP. PROPERTY LINE

APP R/W LINE

NO SIZE OR MATERIAL AVAILABLE

WSC

WSC

WSC

WSC

WSC

WSC

EX. 4" WM TO BE ABANDONED IN PLACE

EX 4" WM

EX 6" PVC SAN

EX 12" WM

EX 3" PVC WM

APP R/W LINE

EX 6" PVC SAN

STM

WLS

STM

WM

WM

WM

WM

WM

WM

WM

WM

WM

WM

CFK

BY

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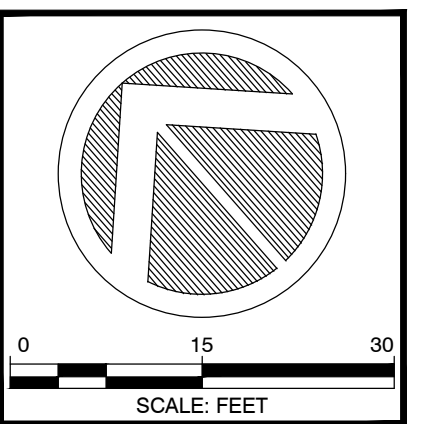
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WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
 GOLF DR. STA. 474+05 THRU STA. 478+36

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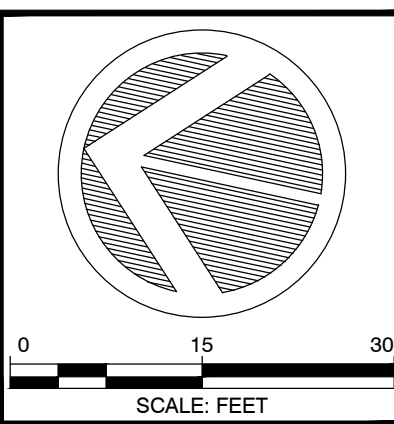
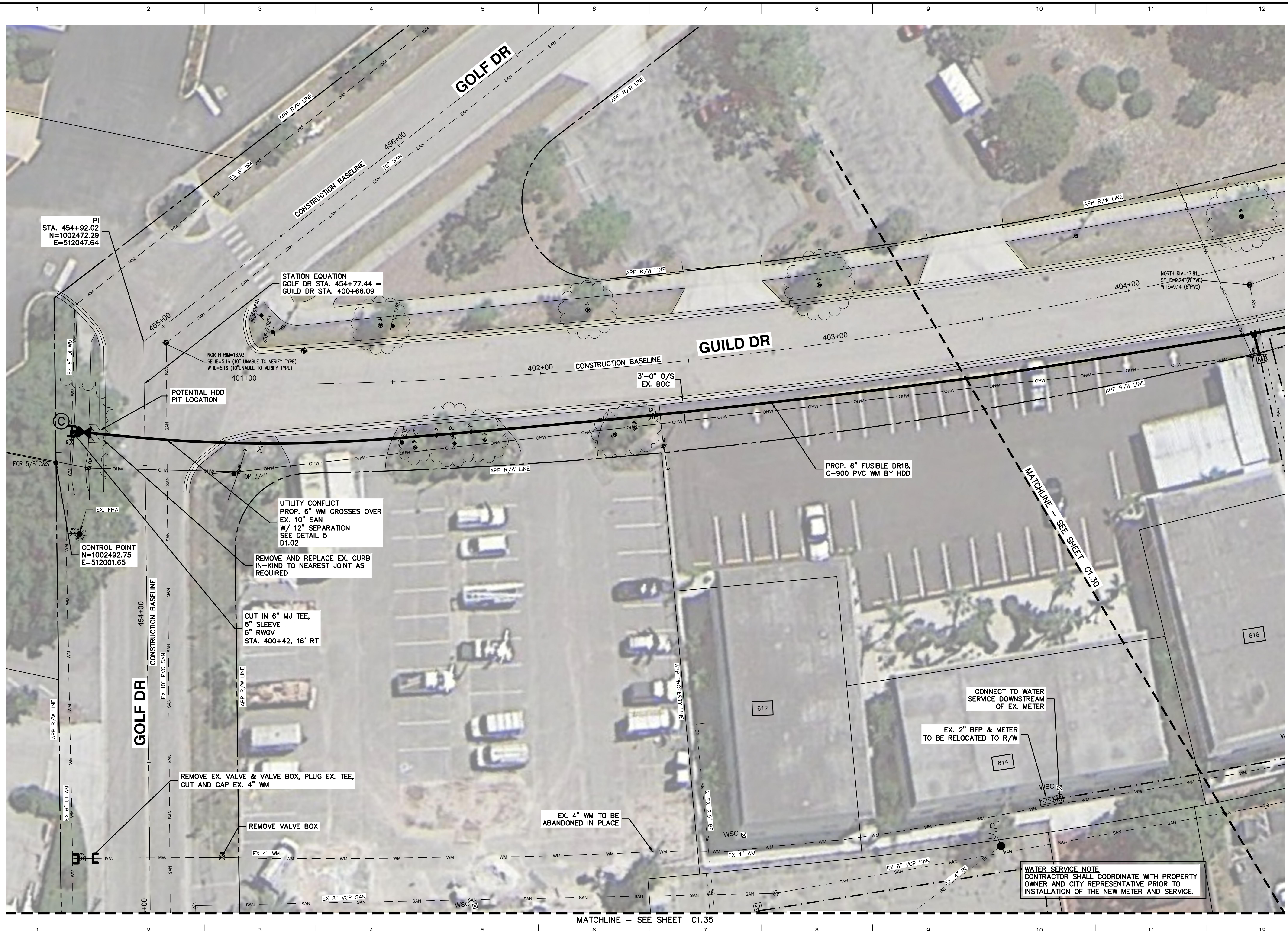
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C1.28

BID DOCUMENTS 10/26/2017

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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 GUILD DR. STA. 400+66 THRU STA. 403+34

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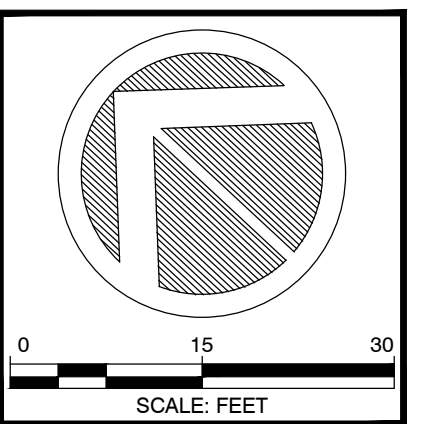
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C1.29

BID DOCUMENTS
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MATCHLINE - SEE SHEET C1.24



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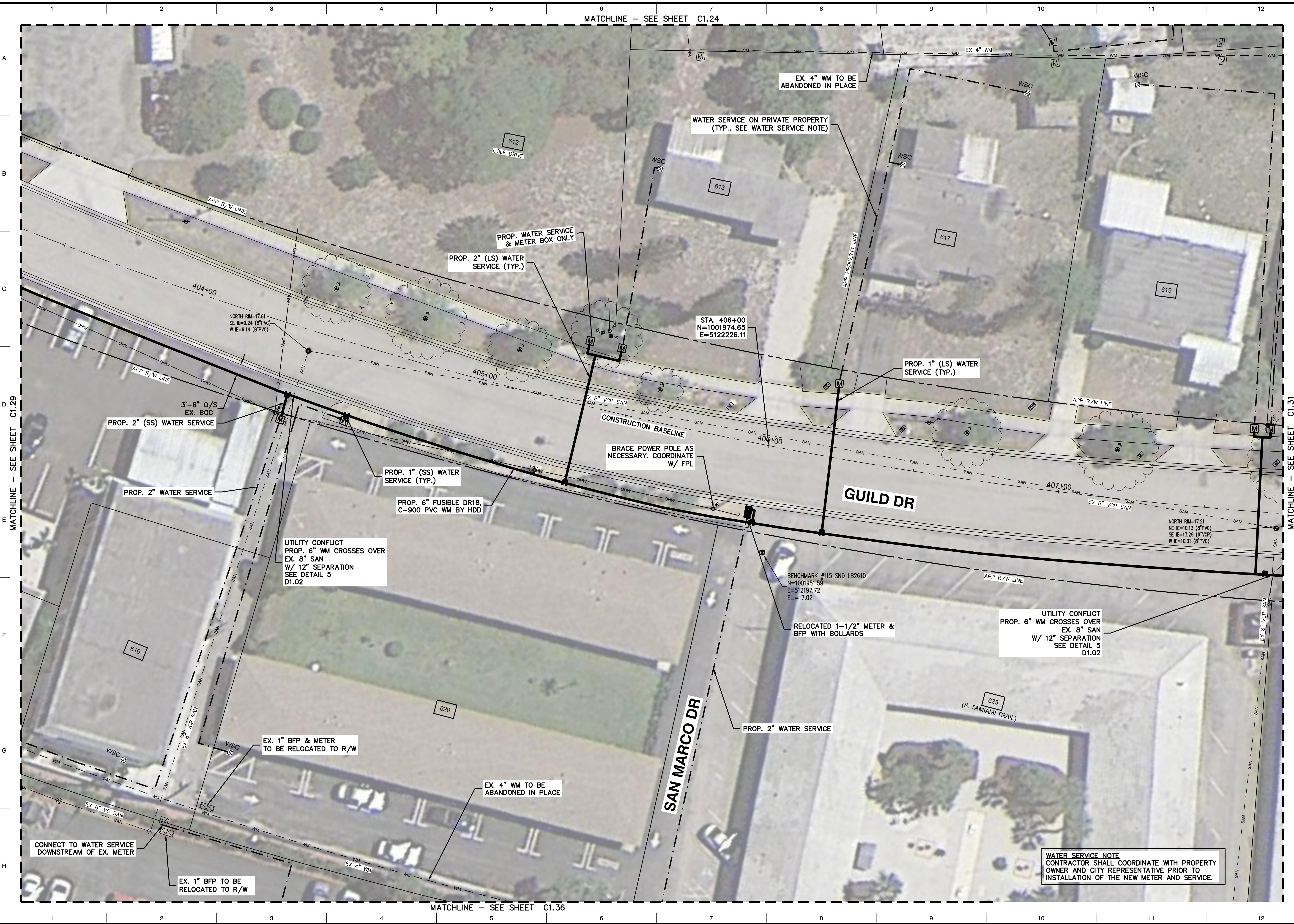
**WATER MAIN
REPLACEMENT PROGRAM**
PHASE 5
GUILD DR. STA. 403+34 THRU STA. 407+77

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10/26/2017
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JOB NO: 4799-010-000
DATE: 10/26/2017
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C1.30

BID DOCUMENTS
10/26/2017



MATCHLINE - SEE SHEET C1.29

MATCHLINE - SEE SHEET C1.31

MATCHLINE - SEE SHEET C1.36

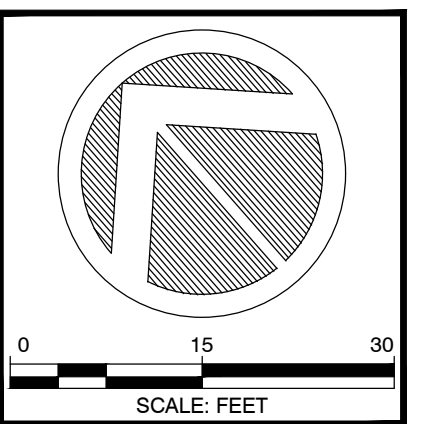
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MATCHLINE - SEE SHEET C1.25

MATCHLINE - SEE SHEET C1.37



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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 GUILD DR. STA. 407+77 THRU STA. 411+95
 & FAIRWAY BLVD. STA. 504+03 THRU STA. 505+79

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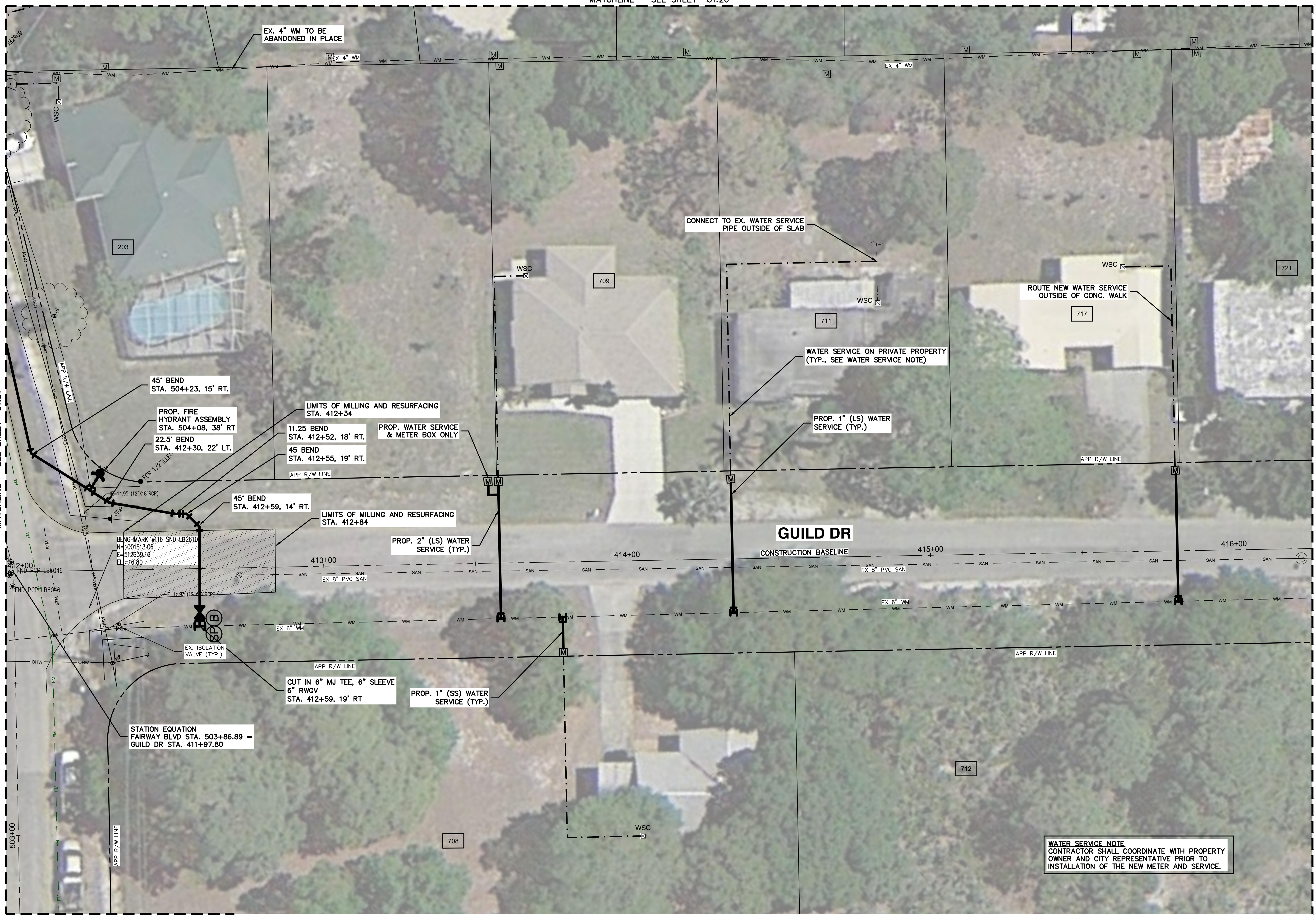
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C1.31

BID DOCUMENTS
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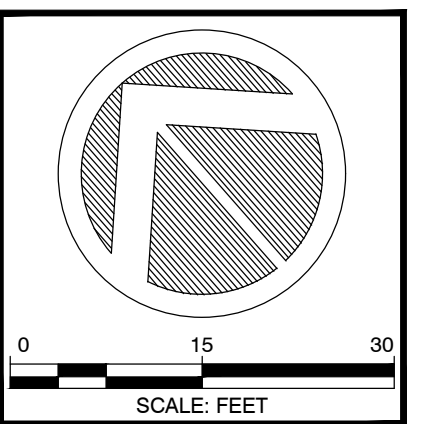
MATCHLINE - SEE SHEET C1.26



STATION EQUATION
FAIRWAY BLVD STA. 503+86.89 =
GUILD DR STA. 411+97.80

BENCHMARK #116 SMD LB2610
N=1001513.06
E=512639.16
EL=16.80

WATER SERVICE NOTE
CONTRACTOR SHALL COORDINATE WITH PROPERTY
OWNER AND CITY REPRESENTATIVE PRIOR TO
INSTALLATION OF THE NEW METER AND SERVICE.



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**WATER MAIN
REPLACEMENT PROGRAM**
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GUILD DR. STA. 411+95 THRU STA. 416+26
& FAIRWAY BLVD. STA. 503+87 THRU STA. 504+03

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JOB NO: 4799-010-000
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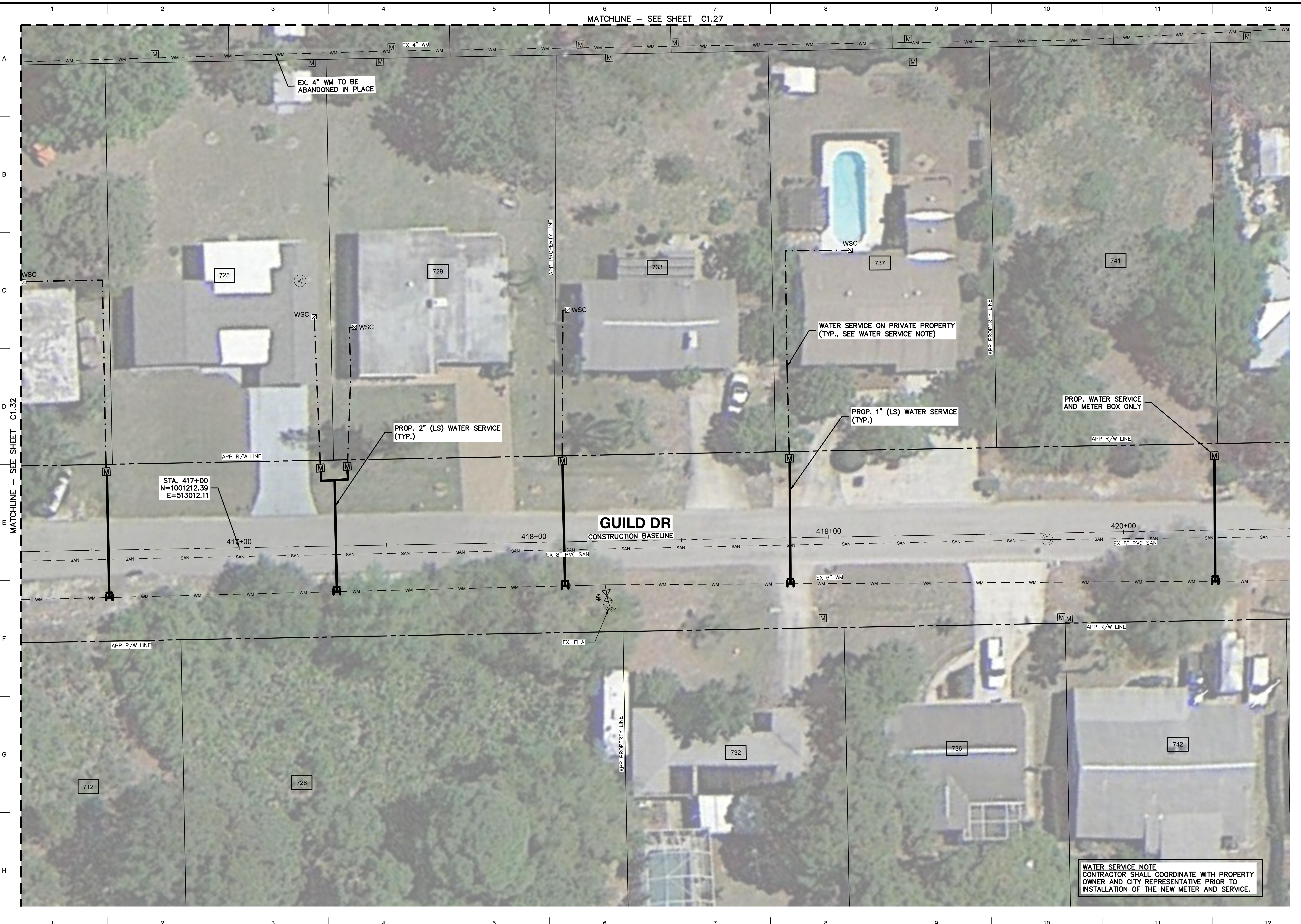
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MATCHLINE - SEE SHEET C1.27

MATCHLINE - SEE SHEET C1.32

STA. 417+00
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E=513012.11

EX. 4" WM TO BE
ABANDONED IN PLACE

PROP. 2" (LS) WATER SERVICE
(TYP.)

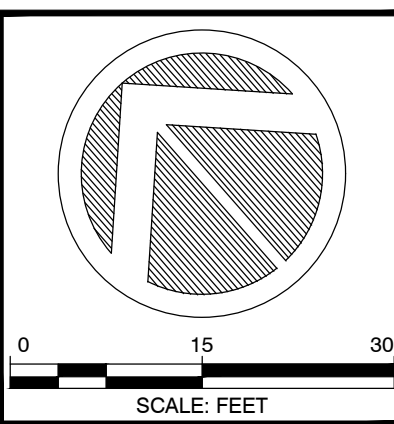
WATER SERVICE ON PRIVATE PROPERTY
(TYP., SEE WATER SERVICE NOTE)

PROP. 1" (LS) WATER SERVICE
(TYP.)

PROP. WATER SERVICE
AND METER BOX ONLY

GUILD DR
CONSTRUCTION BASELINE

WATER SERVICE NOTE
CONTRACTOR SHALL COORDINATE WITH PROPERTY
OWNER AND CITY REPRESENTATIVE PRIOR TO
INSTALLATION OF THE NEW METER AND SERVICE.



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**WATER MAIN
REPLACEMENT PROGRAM**
PHASE 5
GUILD DR. STA. 416+26 THRU STA. 420+56

CHRISTOPHER F. KUZLER
10/26/2017
FL. P.E. NO. 45532

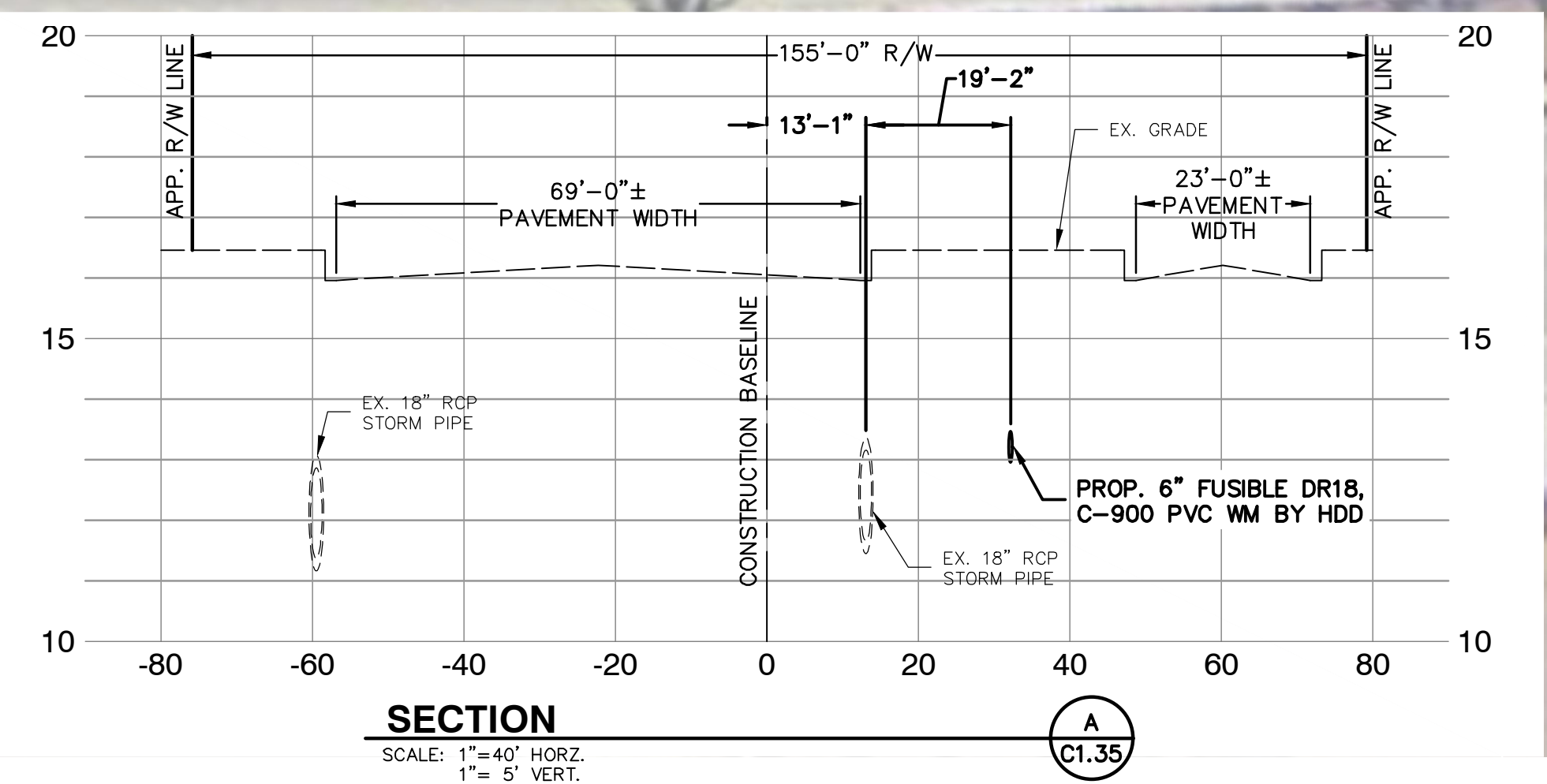
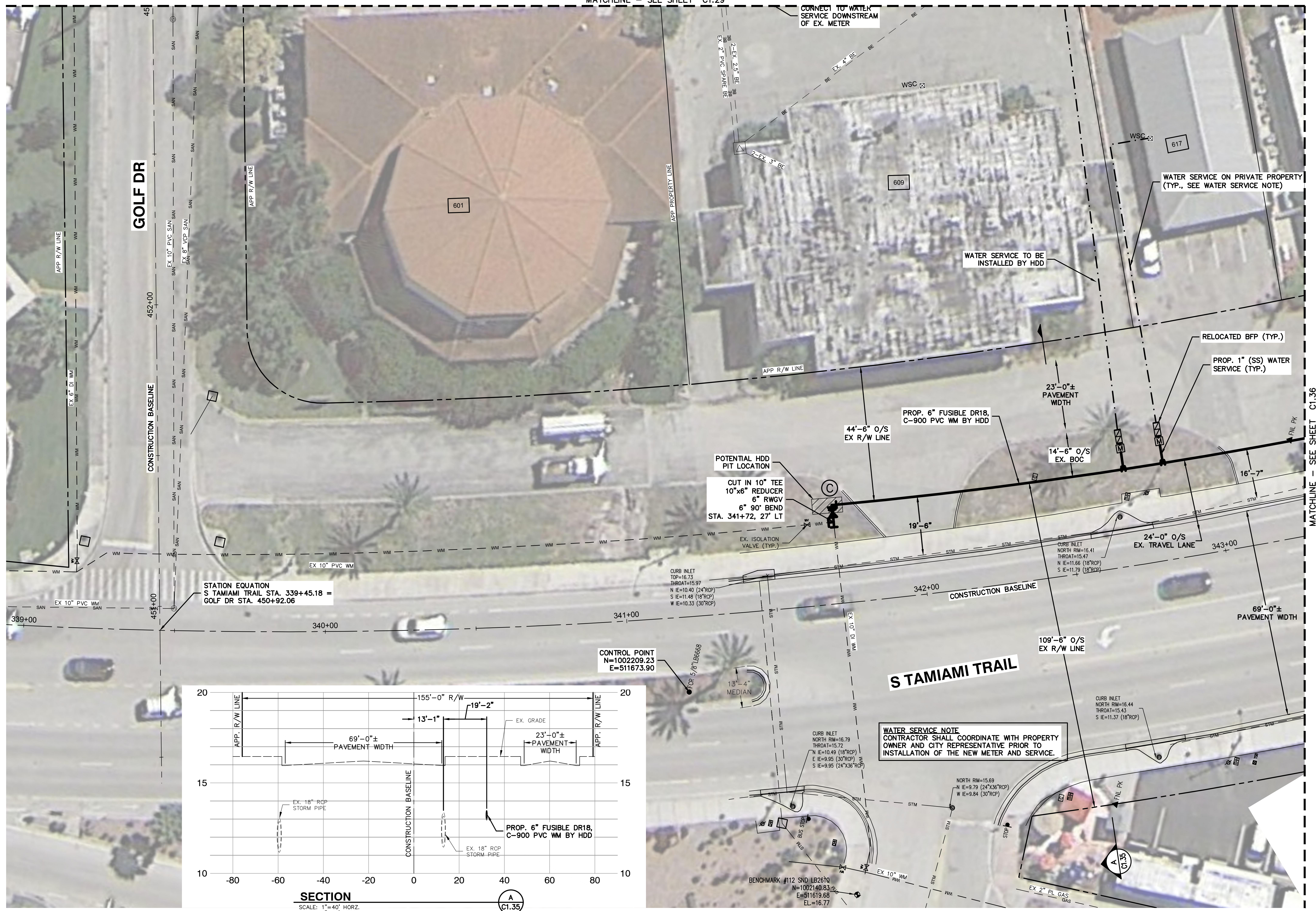
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DATE: 10/26/2017
SCALE: AS SHOWN

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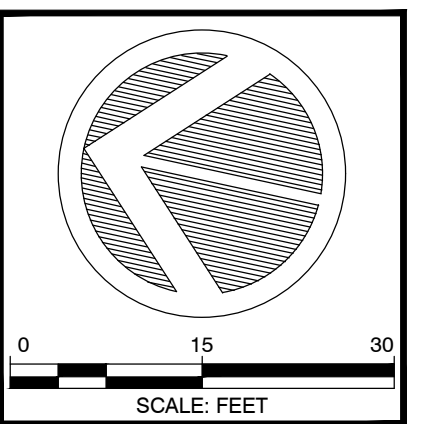
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10/26/2017

01ENV_ENG4799C10000 Production Drawings SHEETS C1.24 - C1.36.dwg

MATCHLINE - SEE SHEET C1.29



WATER SERVICE NOTE
 CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND CITY REPRESENTATIVE PRIOR TO INSTALLATION OF THE NEW METER AND SERVICE.



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WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
 S TAMAMIAMI TRAIL STA. 339+45
 THRU STA. 343+27

CHRISTOPHER F. KUZLER
 10/26/2017
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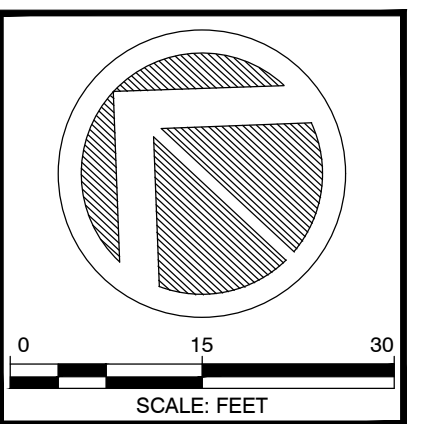
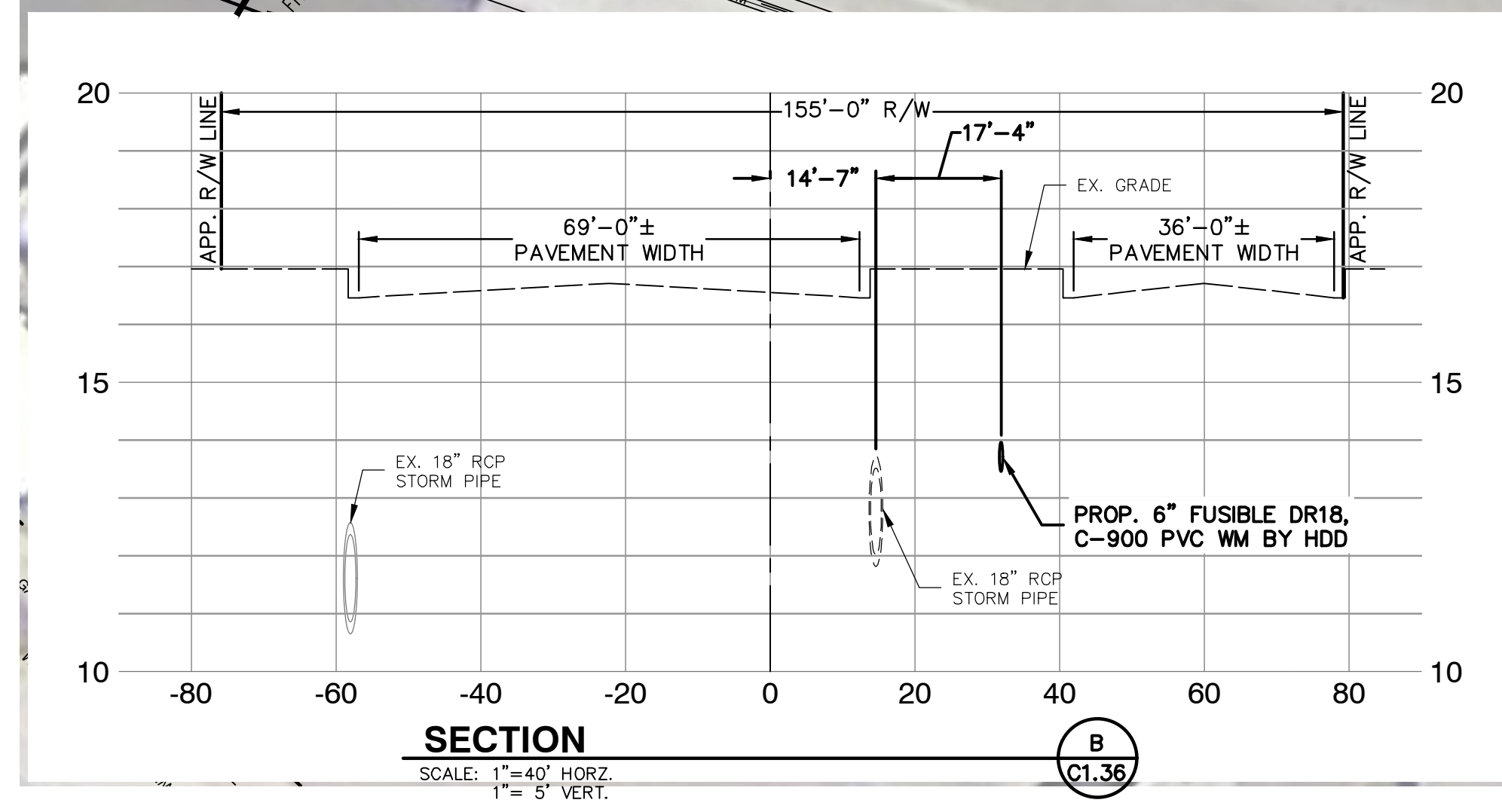
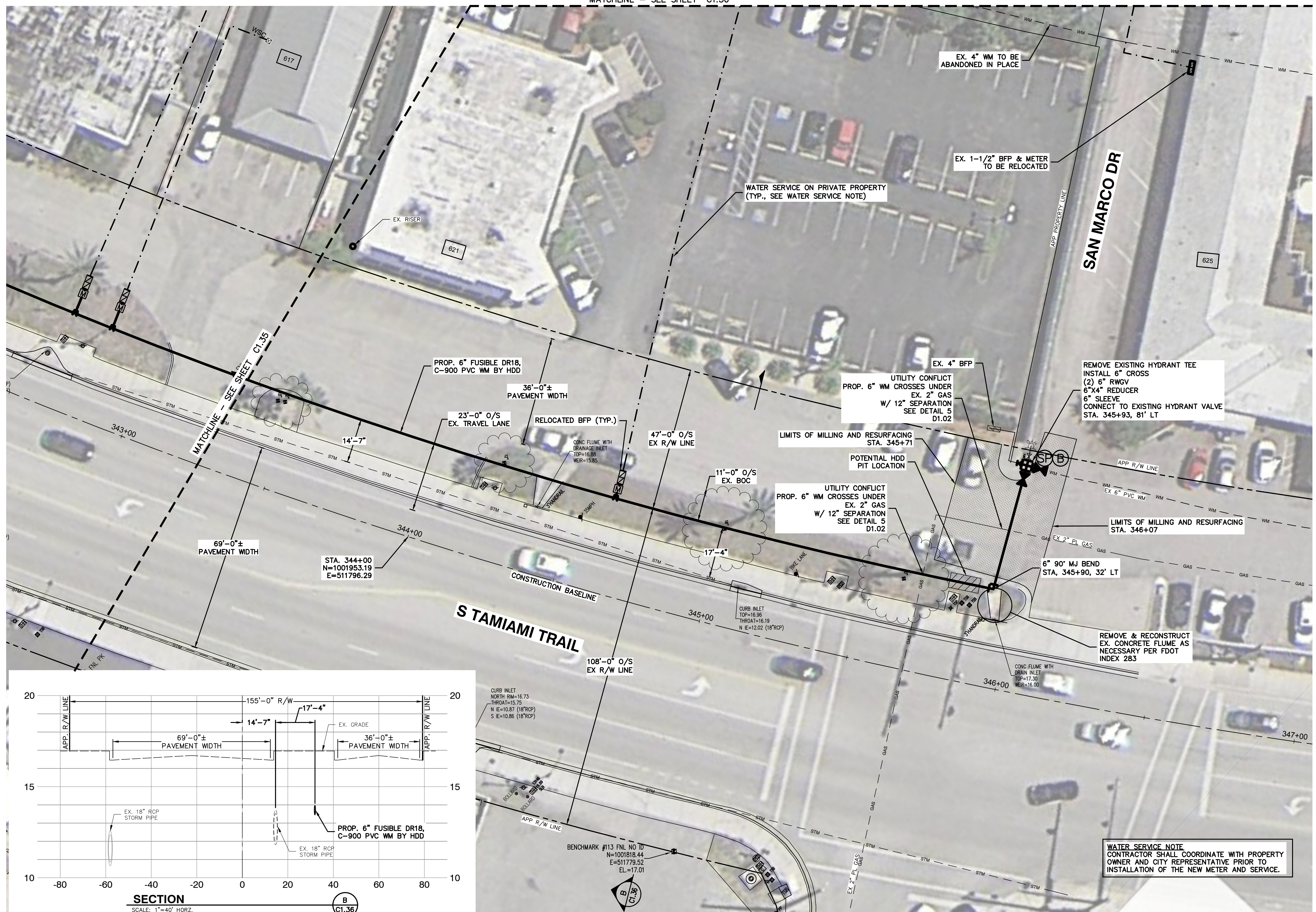
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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 S TAMIAMI TRAIL STA. 343+27
 THRU STA. 347+06

CHRISTOPHER F. KUZLER
 10/26/2017
 FL. P.E. NO. 45532

JOB NO: 4799-010-000
 DATE: 10/26/2017
 SCALE: AS SHOWN

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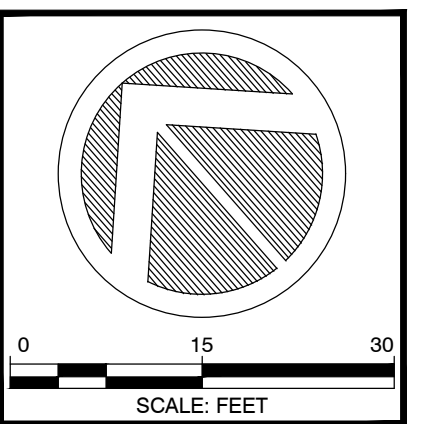
BID DOCUMENTS 10/26/2017

WATER SERVICE NOTE
 CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND CITY REPRESENTATIVE PRIOR TO INSTALLATION OF THE NEW METER AND SERVICE.

CIENV_ENG4799-010000-Production Drawings SHEETS C1.31 - C1.36.dwg

MATCHLINE - SEE SHEET C1.31

MATCHLINE - SEE SHEET C1.32



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**WATER MAIN
 REPLACEMENT PROGRAM**
 PHASE 5
 S TAMAMIAMI TRAIL STA. 349+82
 THRU STA. 354+13

CHRISTOPHER F. KUZLER
 10/26/2017
 FL. P.E. NO. 45532

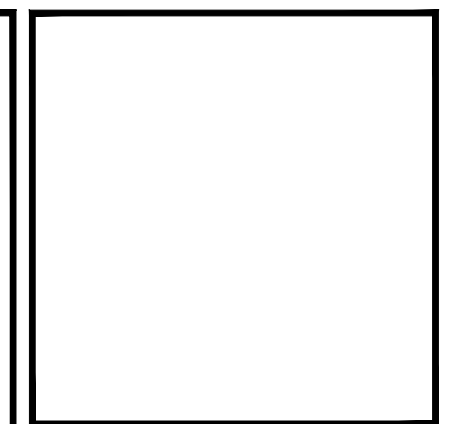
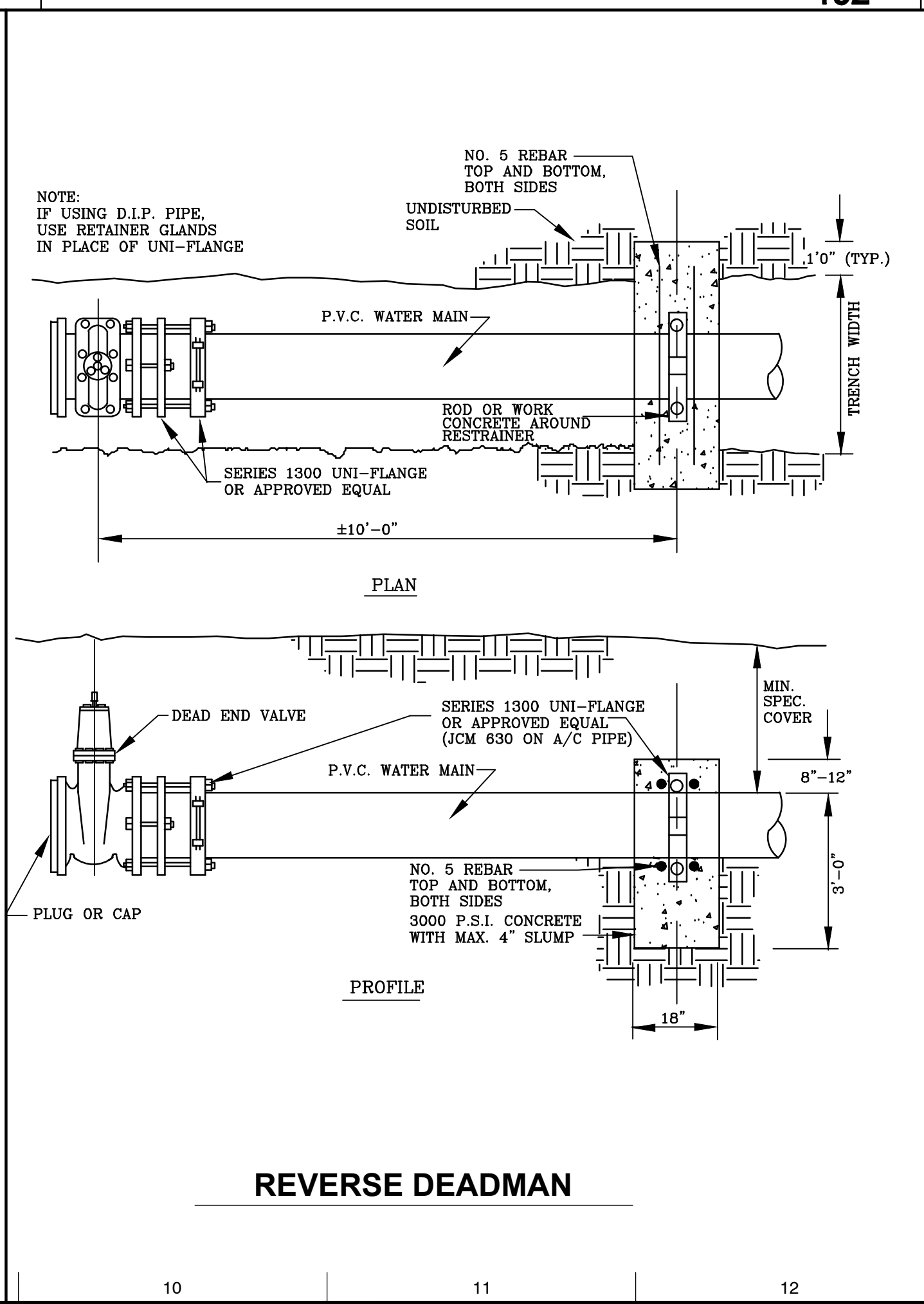
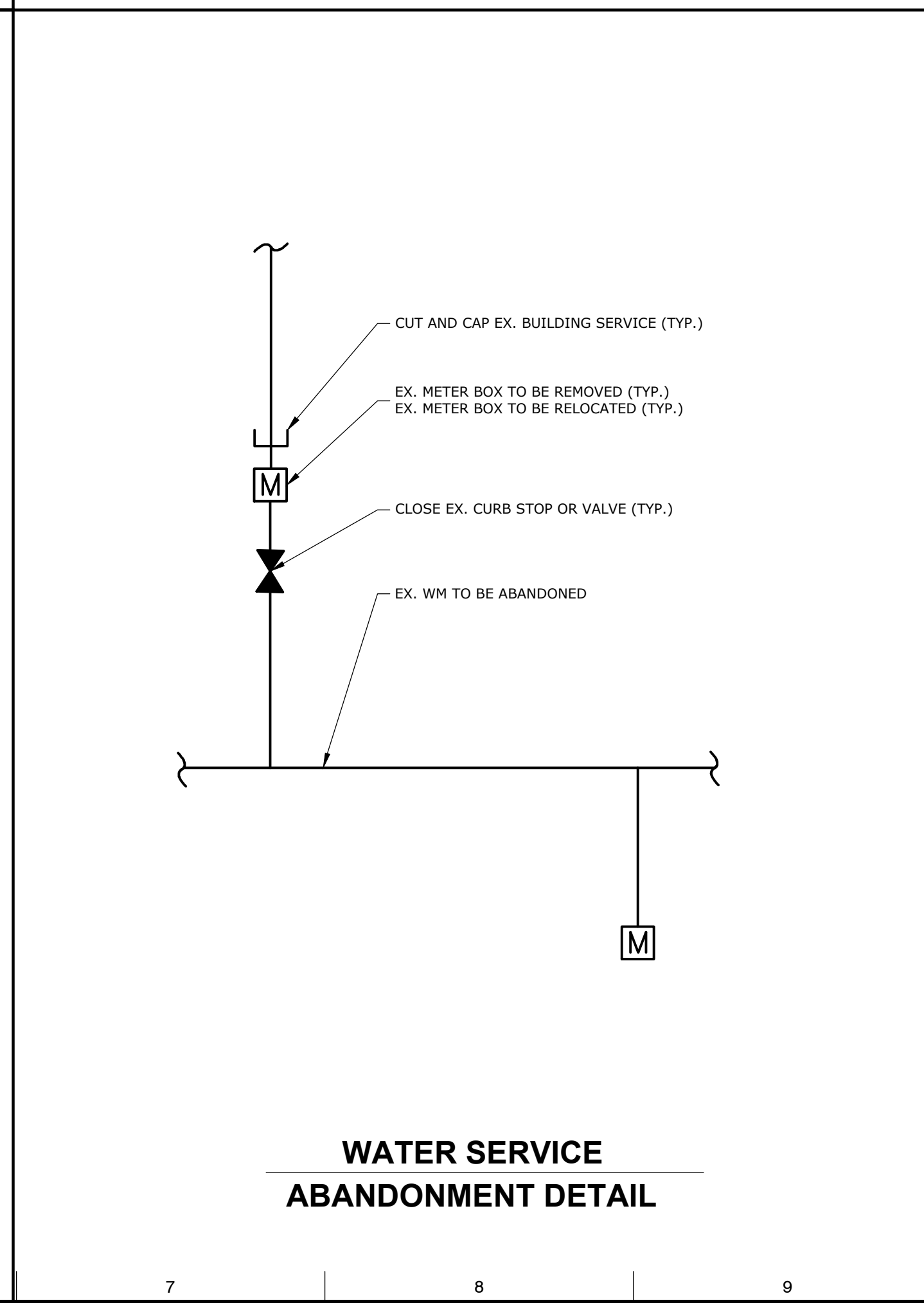
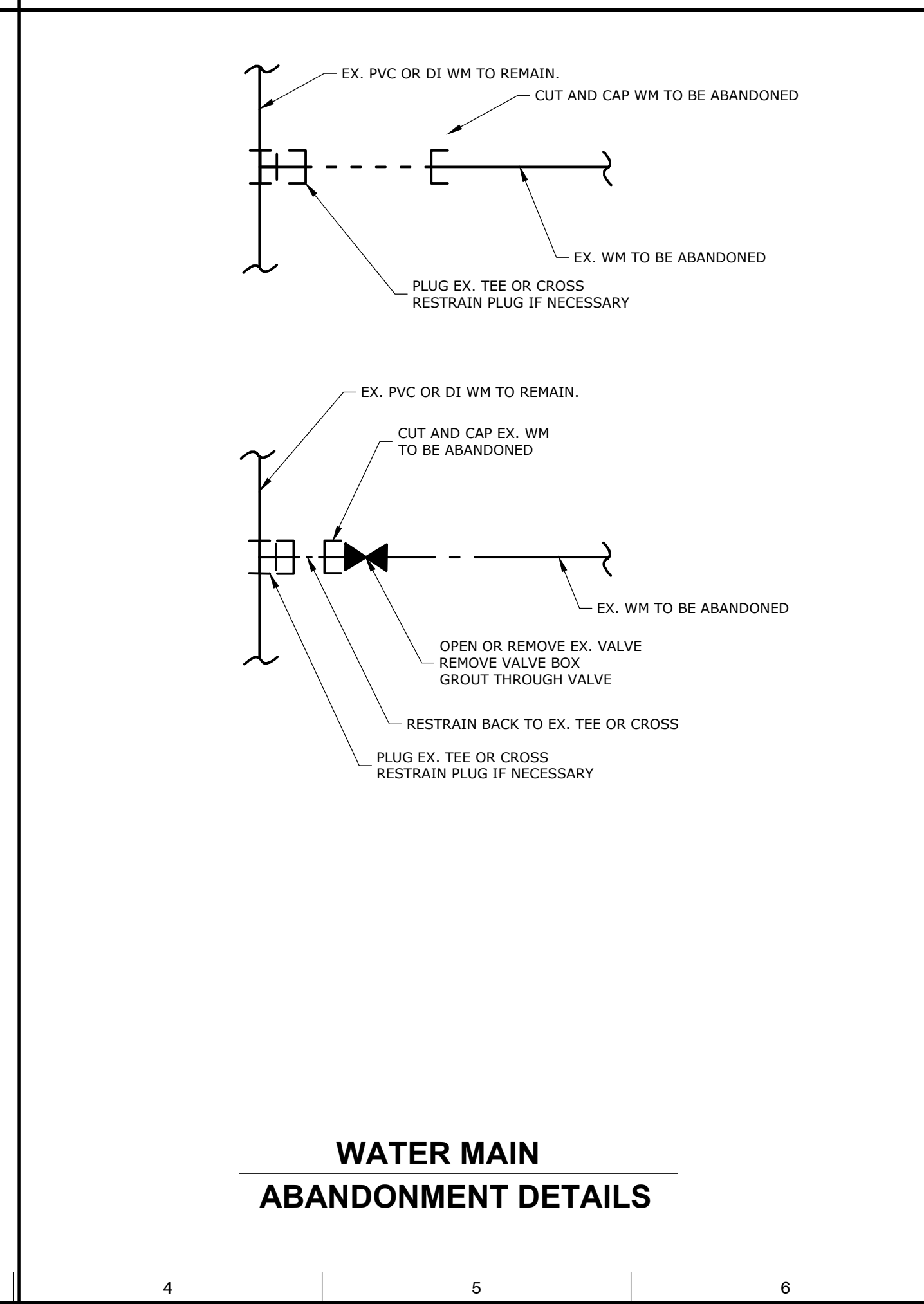
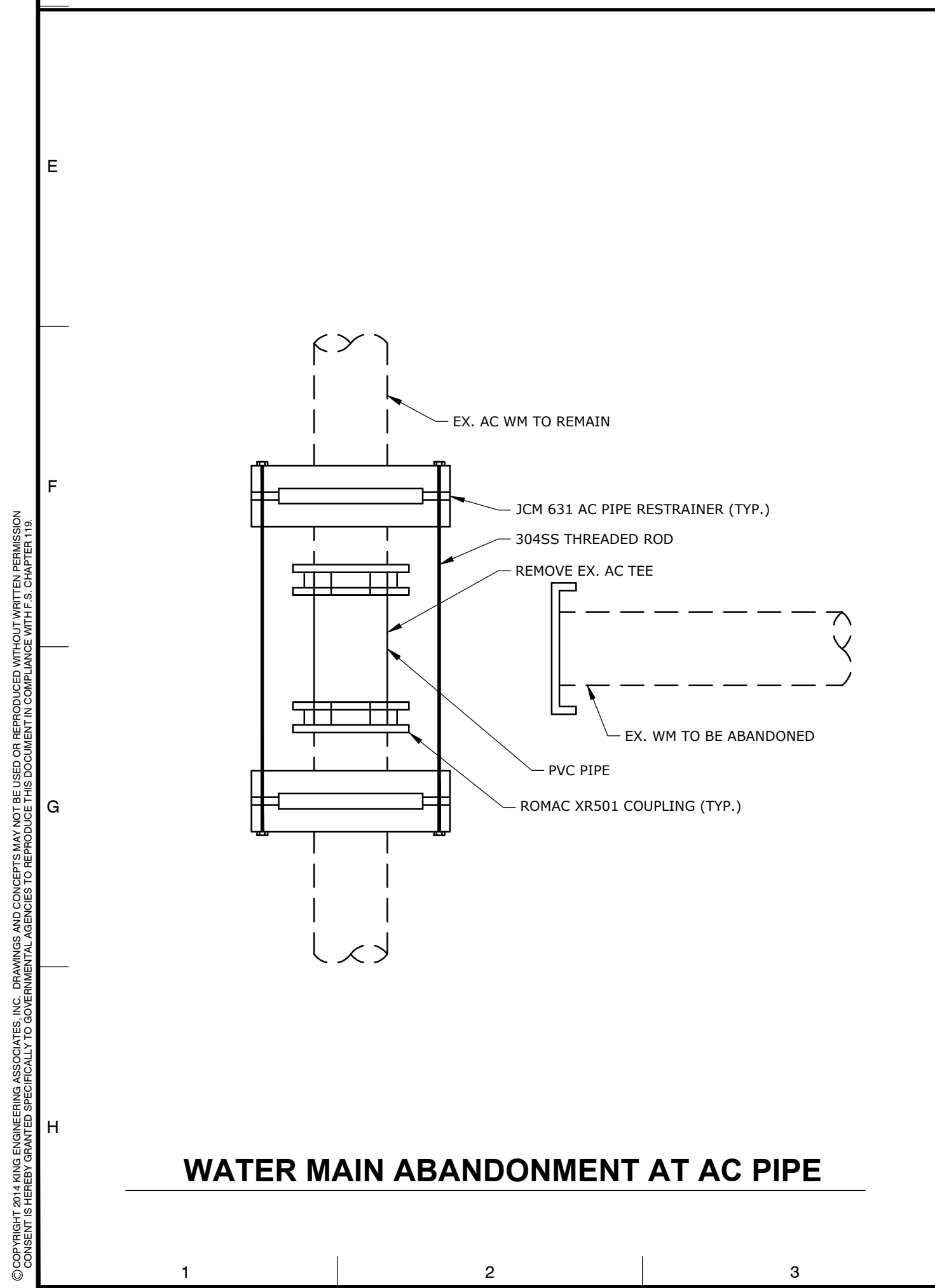
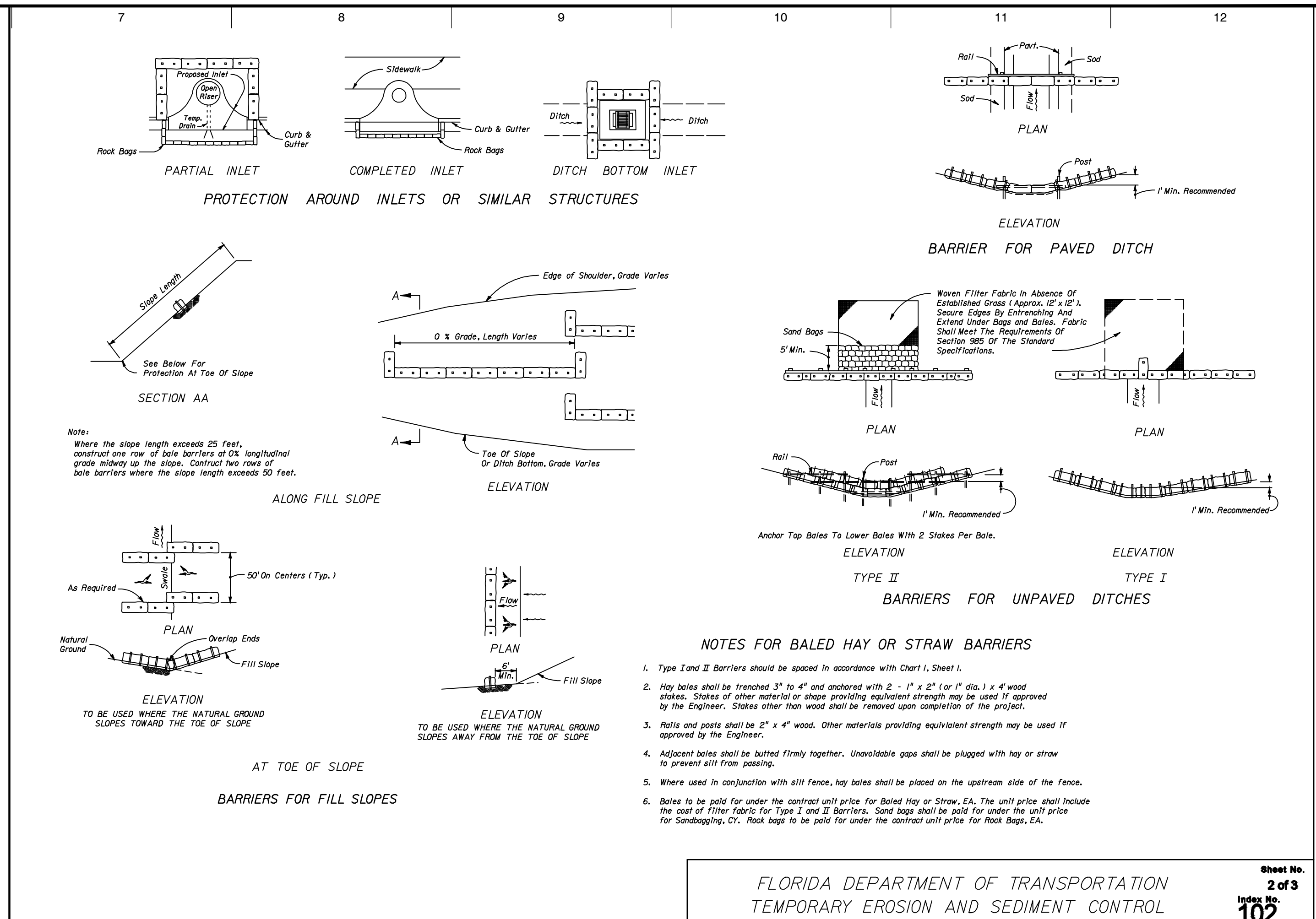
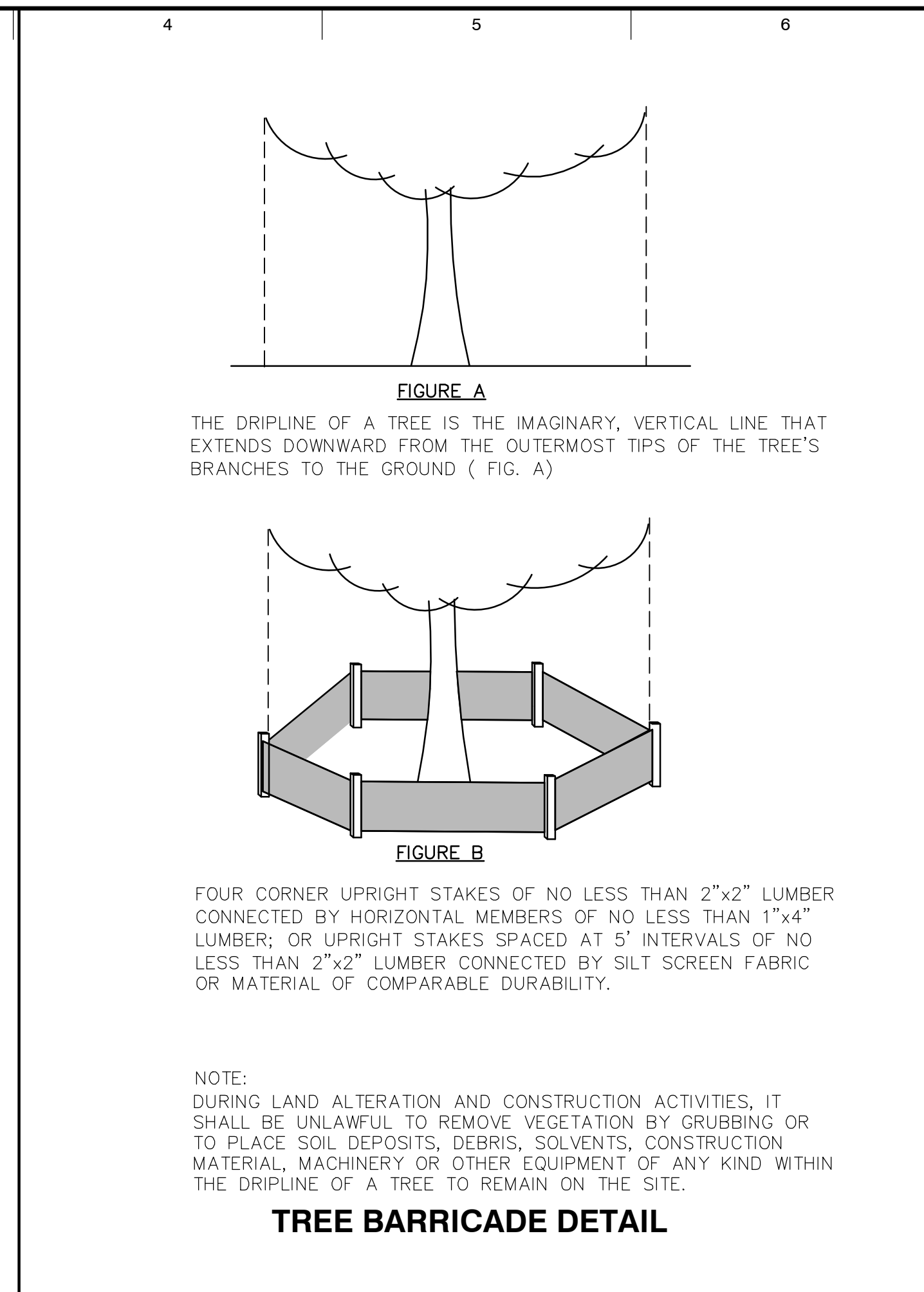
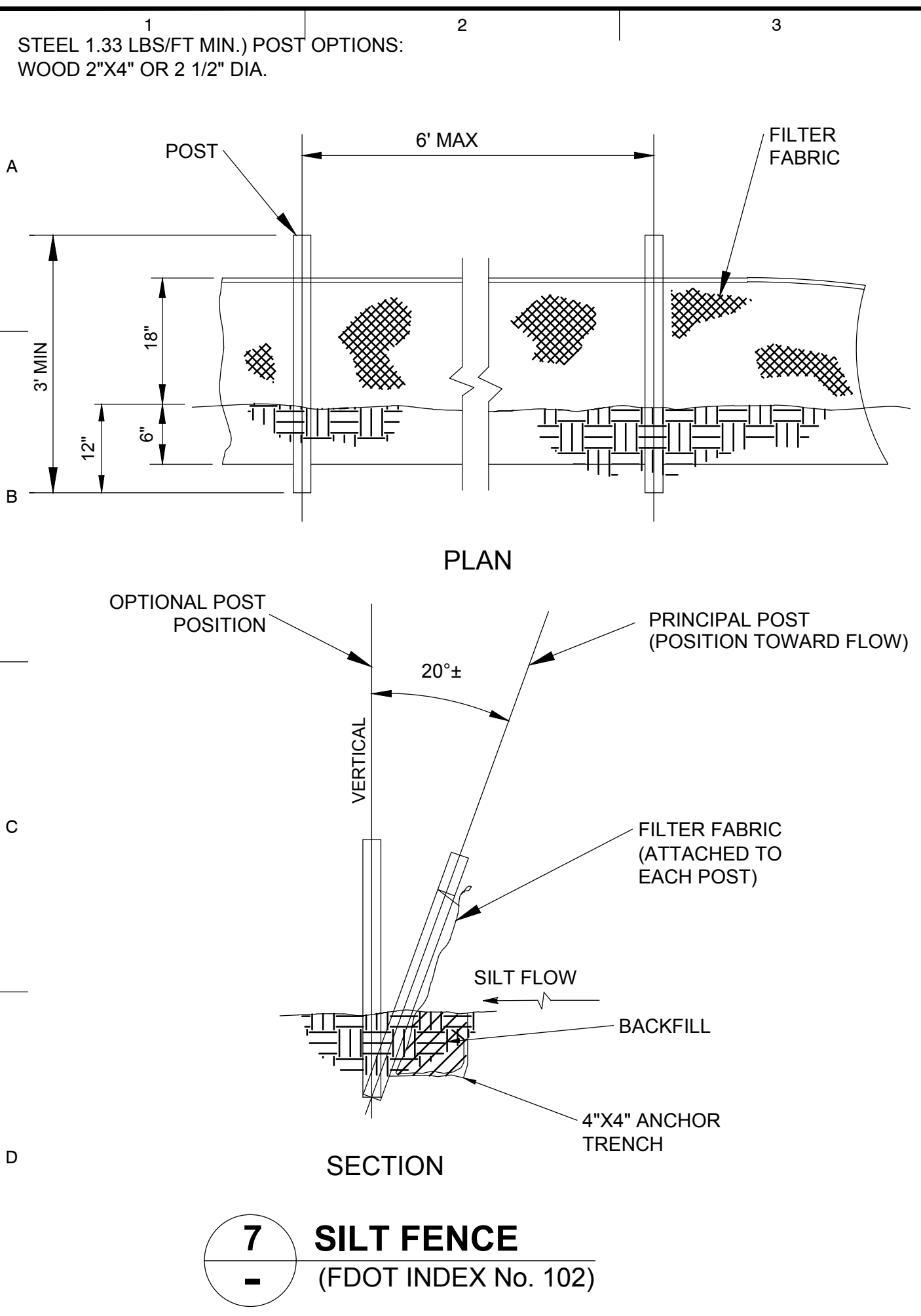
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**WATER MAIN
REPLACEMENT PROGRAM
PHASE 5
EROSION CONTROL AND MISCELLANEOUS
DETAILS**

CHRISTOPHER F. KUZLER
10/26/2017
FL. P.E. NO. 45532

JOB NO: 4799-010-000
DATE: 10/26/2017
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MINIMUM LENGTH (FT) OF FORCE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING

FITTING	PIPE SIZE (INCHES)									
	4	6	8	10	12	16	18	20	24	
45 BEND:	H	6	9	12	14	16	21	23	25	29
	VU	4	6	7	9	10	13	15	16	19
	VD	12	20	26	32	37	48	53	28	68
22.5 BEND:	H	3	4	6	7	8	10	11	12	14
	VU	2	3	4	4	5	6	7	8	9
	VD	7	10	13	15	18	23	26	28	33
11.25 BEND:	H	2	2	3	3	4	5	5	6	7

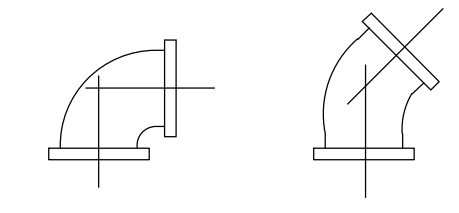
MINIMUM LENGTH (FT) OF WATER OR REUSE MAIN TO BE RESTRAINED ON EACH SIDE OF FITTING

FITTING	PIPE SIZE (INCHES)									
	4	6	8	10	12	16	18	20	24	
90 BEND:	H	23	33	43	51	60	76	83	90	104
45 BEND:	H	10	14	18	21	25	31	34	37	43
	VU	6	8	11	13	16	20	22	24	28
	VD	22	30	40	48	56	72	80	87	102
22.5 BEND:	H	5	7	8	10	12	15	17	18	21
	VU	3	4	5	6	7	10	11	12	14
	VD	10	15	19	23	27	35	38	42	49
11.25 BEND:	H	2	3	4	5	6	7	8	9	10
	PLUGS:	52	73	96	115	136	174	193	211	246

ABBREVIATIONS: H=HORIZONTAL, VU=VERTICAL UP, VD=VERTICAL DOWN.

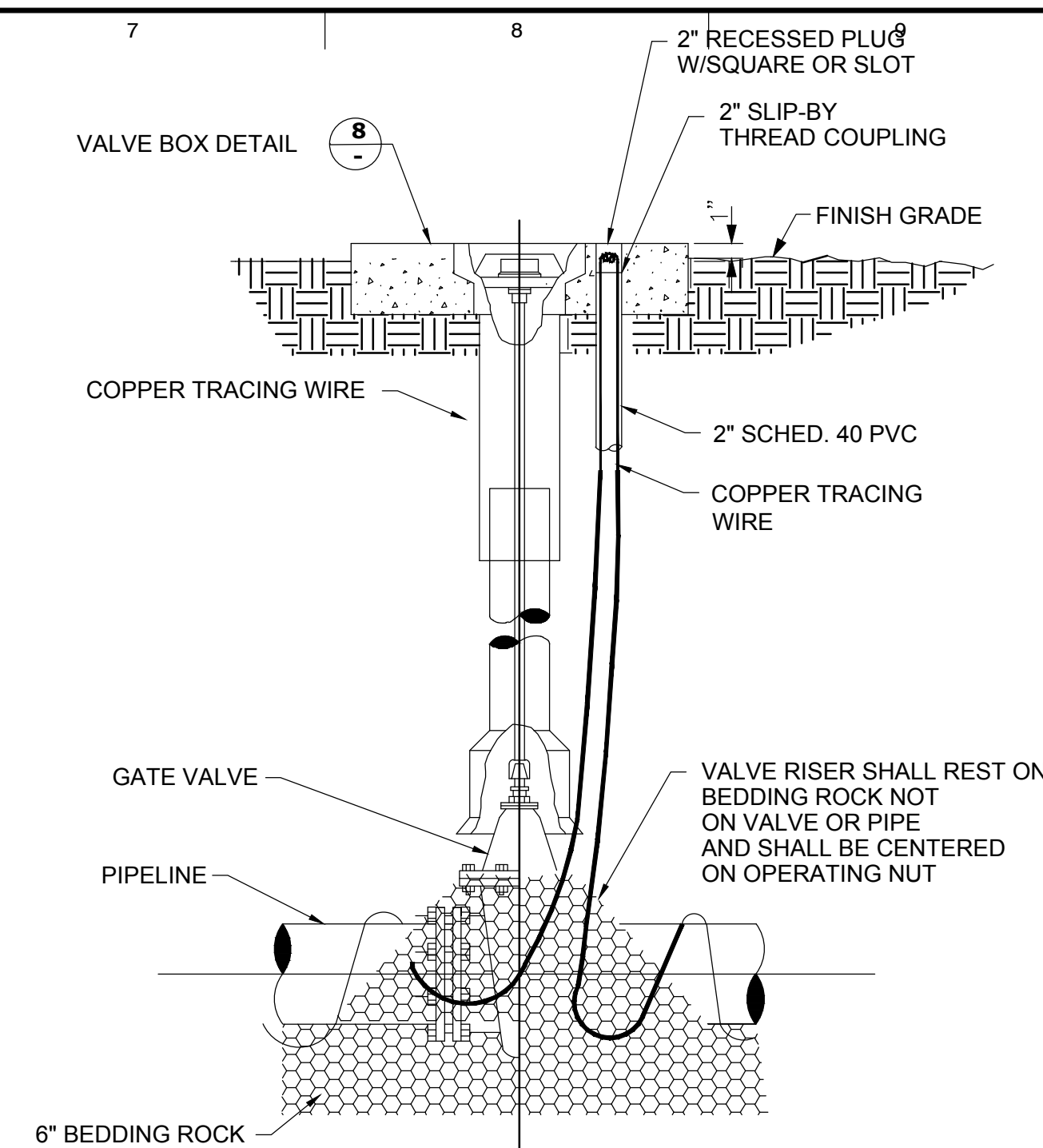
2 PRESSURE MAIN RESTRAINED JOINT TABLES

- NOTES:
- FOR TEE OR REDUCER FITTINGS SUBMIT RESTRAINED JOINT LENGTH CALCULATIONS TO CITY ENGINEER FOR REVIEW AND APPROVAL, USING THE ASSUMPTIONS LISTED
 - RESTRAINED JOINT LENGTH FOR WATER AND REUSE MAINS BASED ON TEST PRESSURE OF 150 PSI. RESTRAINED JOINT LENGTH FOR FORCE (SEWER) MAINS BASED ON TEST PRESSURE OF 100 PSI. CALCULATIONS WERE MADE USING EBAA IRON SOFTWARE (AVAILABLE AT WWW.EBAA.COM) AND THE FOLLOWING ASSUMPTIONS: GRANULAR MATERIAL (GM) SOIL TYPE, TRENCH TYPE 3, BURY DEPTH OF 3 FT, AND SAFETY FACTOR OF 2 TO 1. IF FIELD CONDITIONS DIFFER FROM ABOVE ASSUMPTIONS EOR SHALL PROVIDE CALCULATIONS BASED ON ACTUAL CONDITIONS.
 - RESTRAINED JOINT SHALL BE USED ON ALL JOINTS FROM ANY MAIN TEE TO ANY FIRE HYDRANT ASSEMBLY.
 - THRUST BLOCKS WILL NOT BE ACCEPTED, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.



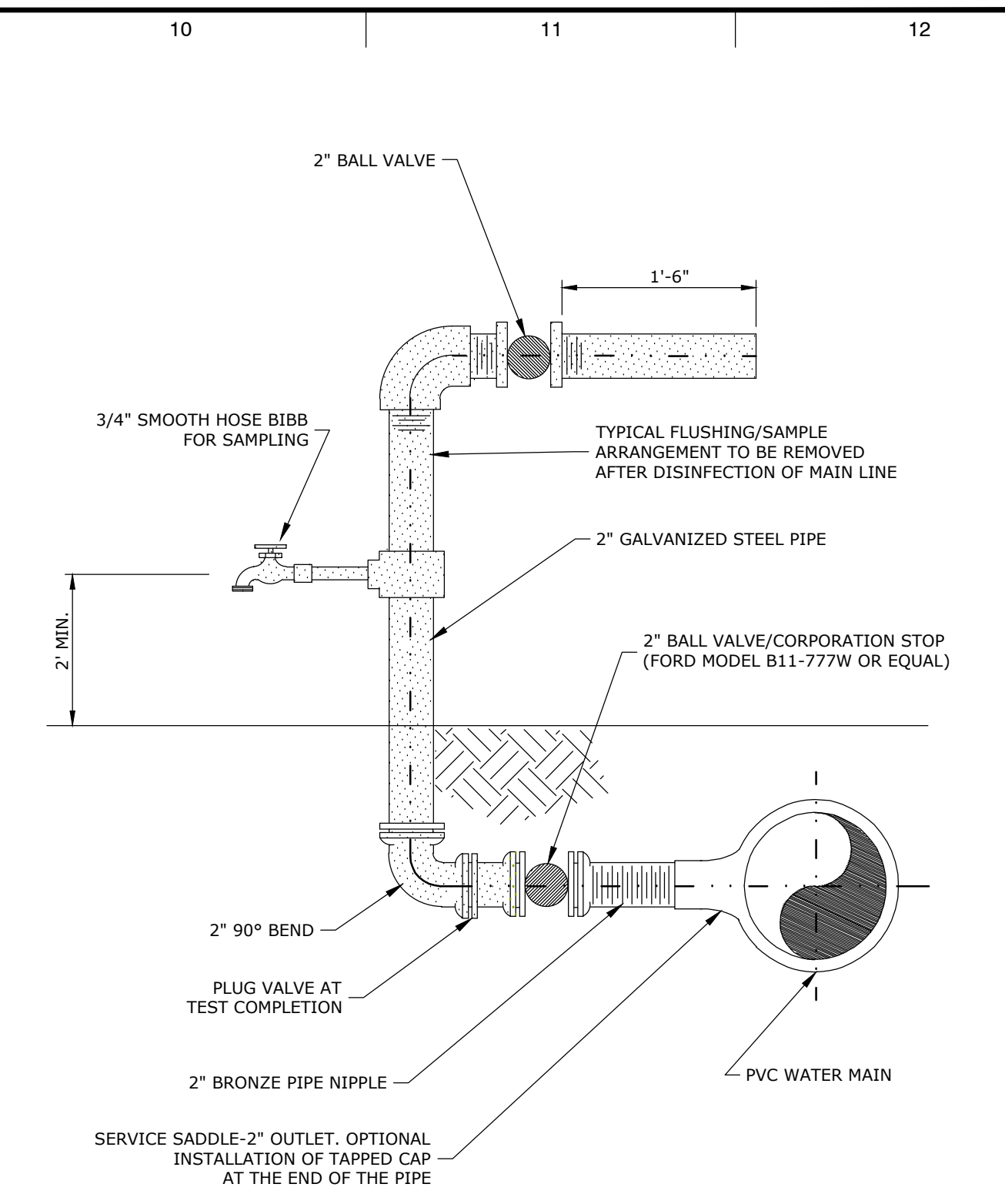
- ALL PIPE FITTINGS SHALL BE COMPACT, DUCTILE IRON.
- ALL APPLICATIONS (RAW, POTABLE, REUSE, SEWER) SHALL BE FUSION BONDED EPOXY COATED INSIDE AND OUT.
- ALL FITTINGS SHALL MEET ANSI/AWWA C116/A21.16 STANDARDS.

7 PIPE FITTINGS

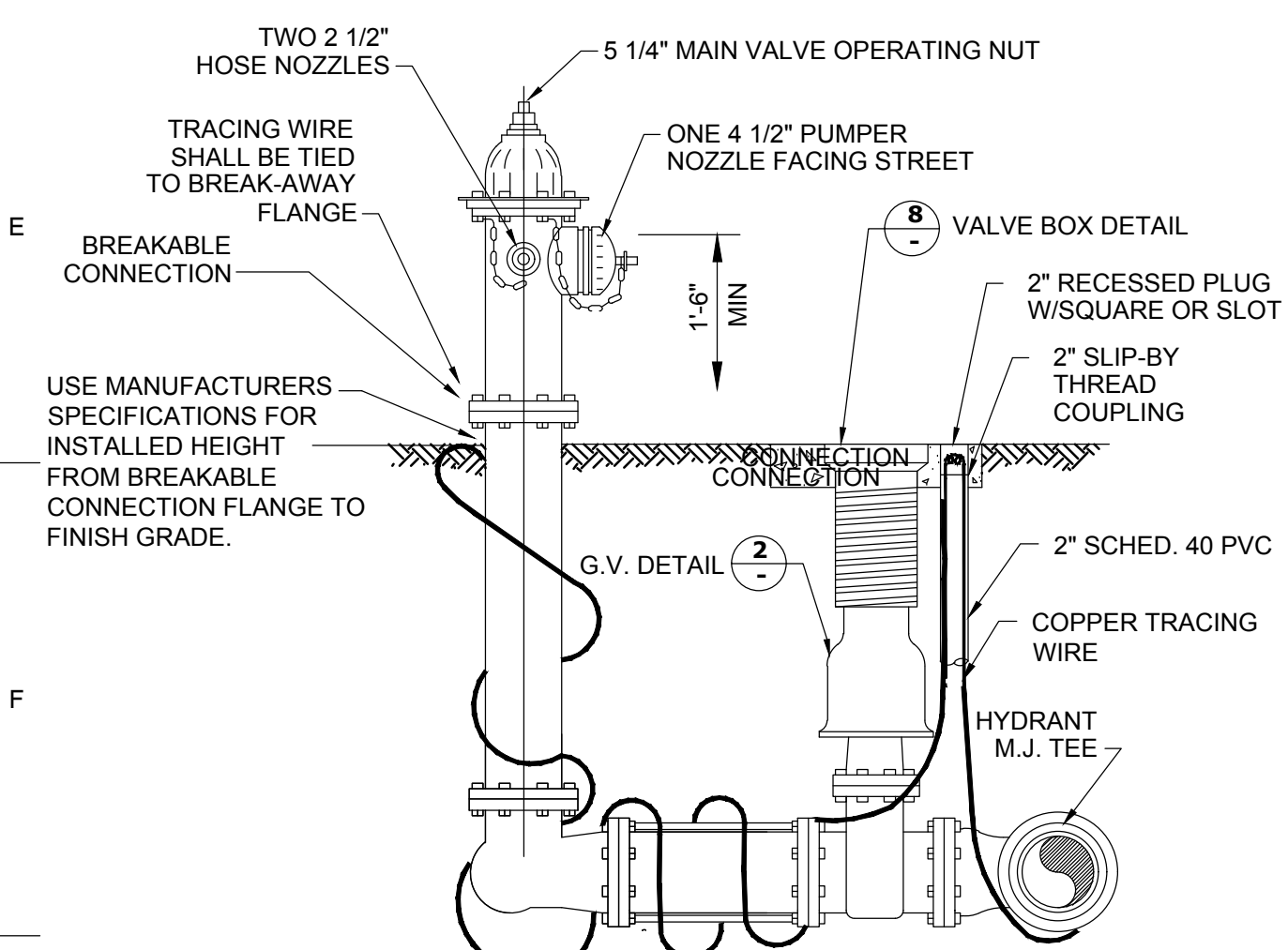


- NOTES:
- GATE VALVES SHALL BE RESILIENT WEDGE-TYPE MANUFACTURED BY MUELLER, AMERICAN VALVE, OR EQUAL. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 CERTIFIED.
 - FOR VALVES LARGER THAN 12" IN USE BUTTERFLY STYLE VALVE.
 - VALVE SHALL BE INSTALLED IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - COPPERHEAD TRACING WIRE PART #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, PURPLE = REUSE)

2 GATE VALVE DETAIL (WATER AND REUSE ONLY)

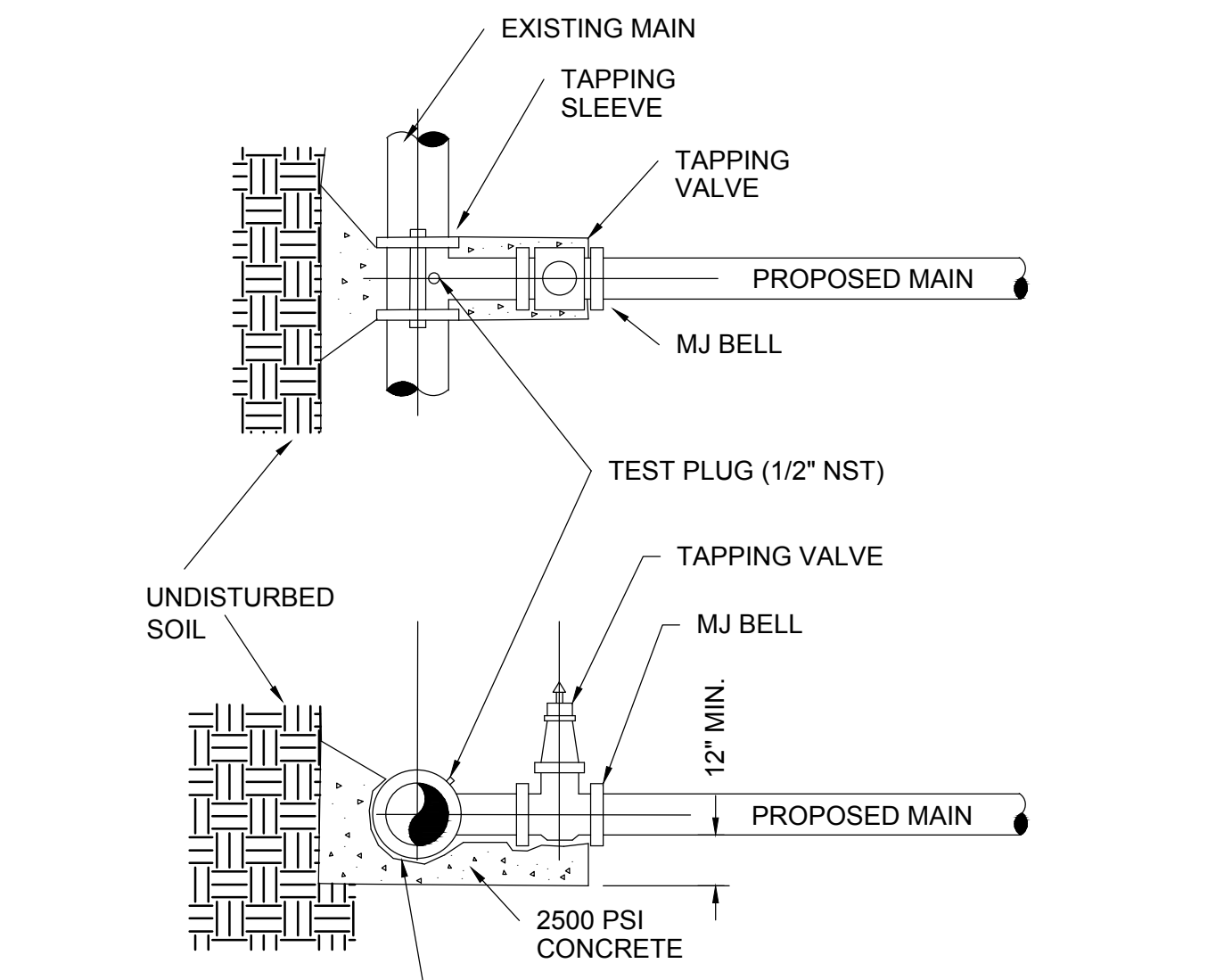


TEMPORARY 2" BLOW-OFF / SAMPLE POINT ASSEMBLY
SCALE: NONE



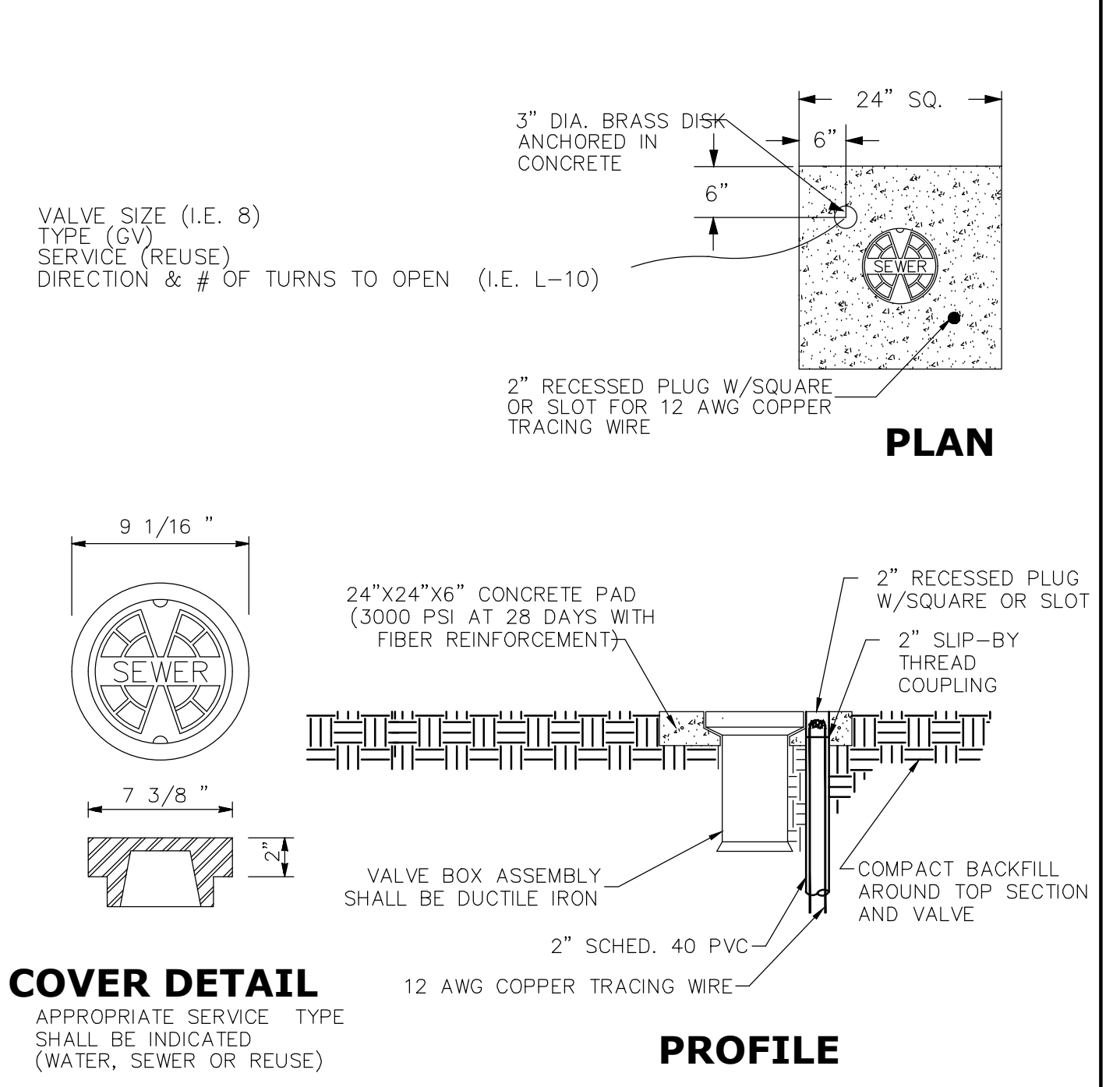
- NOTES:
- POTABLE WATER FIRE HYDRANTS SHALL BE PAINTED "SAFETY YELLOW".
 - REUSE FIRE HYDRANTS SHALL BE PAINTED PANTONE PURPLE 522C AND TAGGED WITH A PERMANENT LABEL "RECLAIMED WATER-DO NOT DRINK."
 - HYDRANT SHALL BE MUELLER SUPER CENTURIAN MODEL A423, AMERICAN B84BV WITH BREAK-AWAY FEATURE. ALL BOLTS SHALL BE SS (BONNET, SAFETY FLANGE, SHOE).
 - RESTRAINED JOINTS SHALL BE USED BETWEEN TEE AND HYDRANT.
 - HYDRANTS SHALL HAVE "OUT OF SERVICE" TAGS AND BE BAGGED UNTIL MAINS PASS.
 - ALL WEEP HOLES SHALL BE PLUGGED.
 - HYDRANT LOCATED AT LEAST 3' OR MORE FROM ANY STORM WATER PIPE OR DITCH AND AT LEAST 6' OR MORE FROM ANY SANITARY SEWER STRUCTURE.
 - FOR CLEARANCE ISSUES, PLEASE REFER TO CURRENT FLORIDA FIRE PREVENTION CODE REQUIREMENTS.
 - COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE USED. IT SHALL BE COLOR CODED TO REFLECT WHAT THE PIPE CARRIES. (BLUE = WATER, PURPLE = REUSE)
 - FIRE HYDRANT ASSEMBLY SHALL BE BEDDED IN 8" OF CRUSHED SHELL.
 - FIRE HYDRANT ASSEMBLY INCLUDES GATE VALVE.

4 FIRE HYDRANT ASSEMBLY



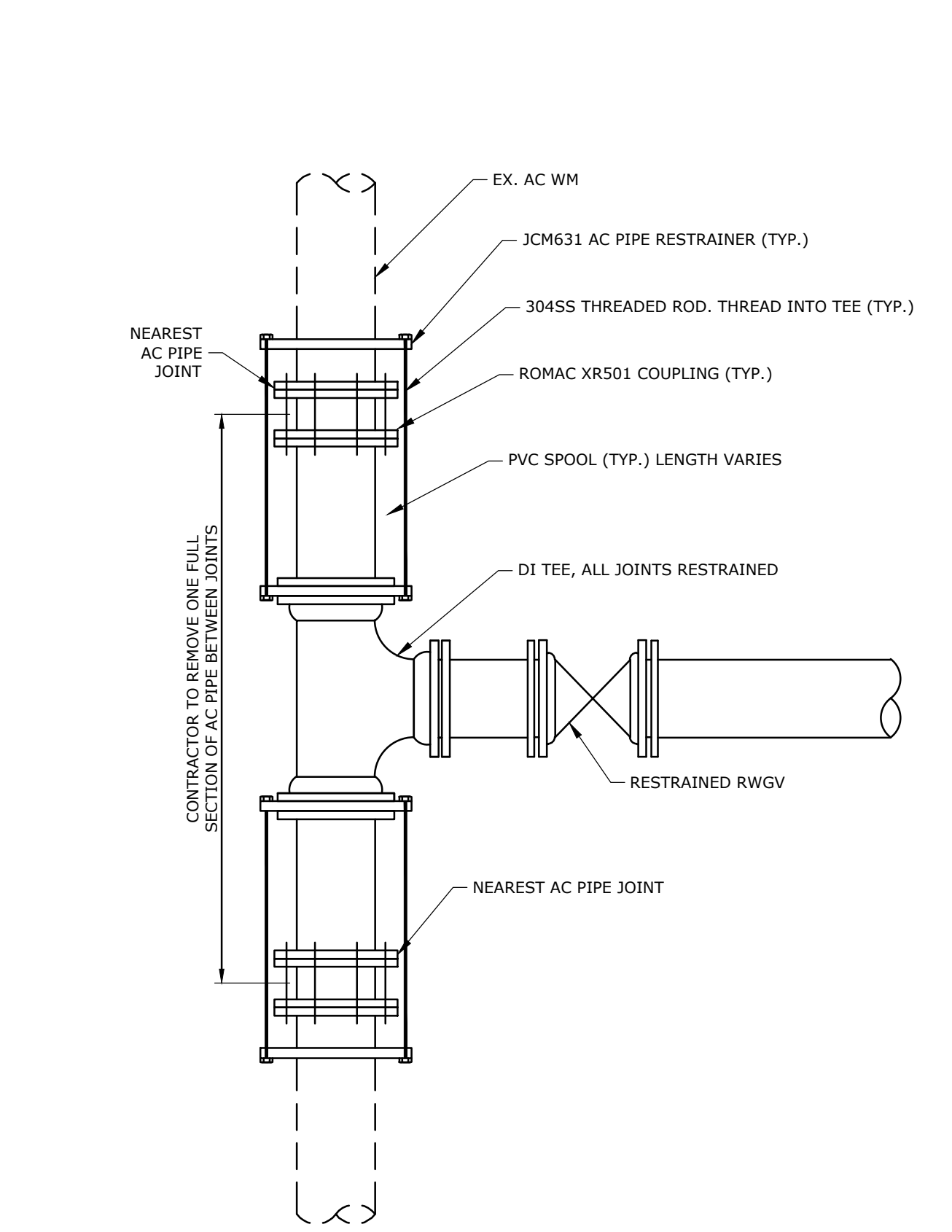
- NOTES:
- EXISTING MAIN SHALL NOT BE TAPPED UNTIL THE ASSEMBLED SLEEVE AND VALVE ARE TESTED IN PLACE AT A MINIMUM OF 150 PSI FOR THIRTY MINUTES.
 - UPON SUCCESSFUL TAPPING SLEEVE PRESSURE TEST (NOTE 1), THE THRUST BLOCK SHALL BE POURED AND HAVE SET FOR 24 HRS PRIOR TO TAPPING. READY-MADE THRUST BLOCKS 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 MUELLER OR AMERICAN VALVE. ALL GATE VALVES SHALL BE FUSION BONDED EPOXY COATED (INTERIOR AND EXTERIOR) MEET ANSI/AWWA C550, AND BE NSF61 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.

5 TAPPING SLEEVE AND VALVE DETAIL
SCALE: NONE



- NOTES:
- 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 (LINE) MUST USE TRENCH ADAPTER VALVE BOX (AMERICAN FLOW CONTROL).
 - 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.

8 VALVE BOX DETAIL
SCALE: NONE



AC PIPE TIE-IN DETAIL
SCALE: NONE

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WATER MAIN REPLACEMENT PROGRAM
PHASE 5
POTABLE WATER DETAILS (1)

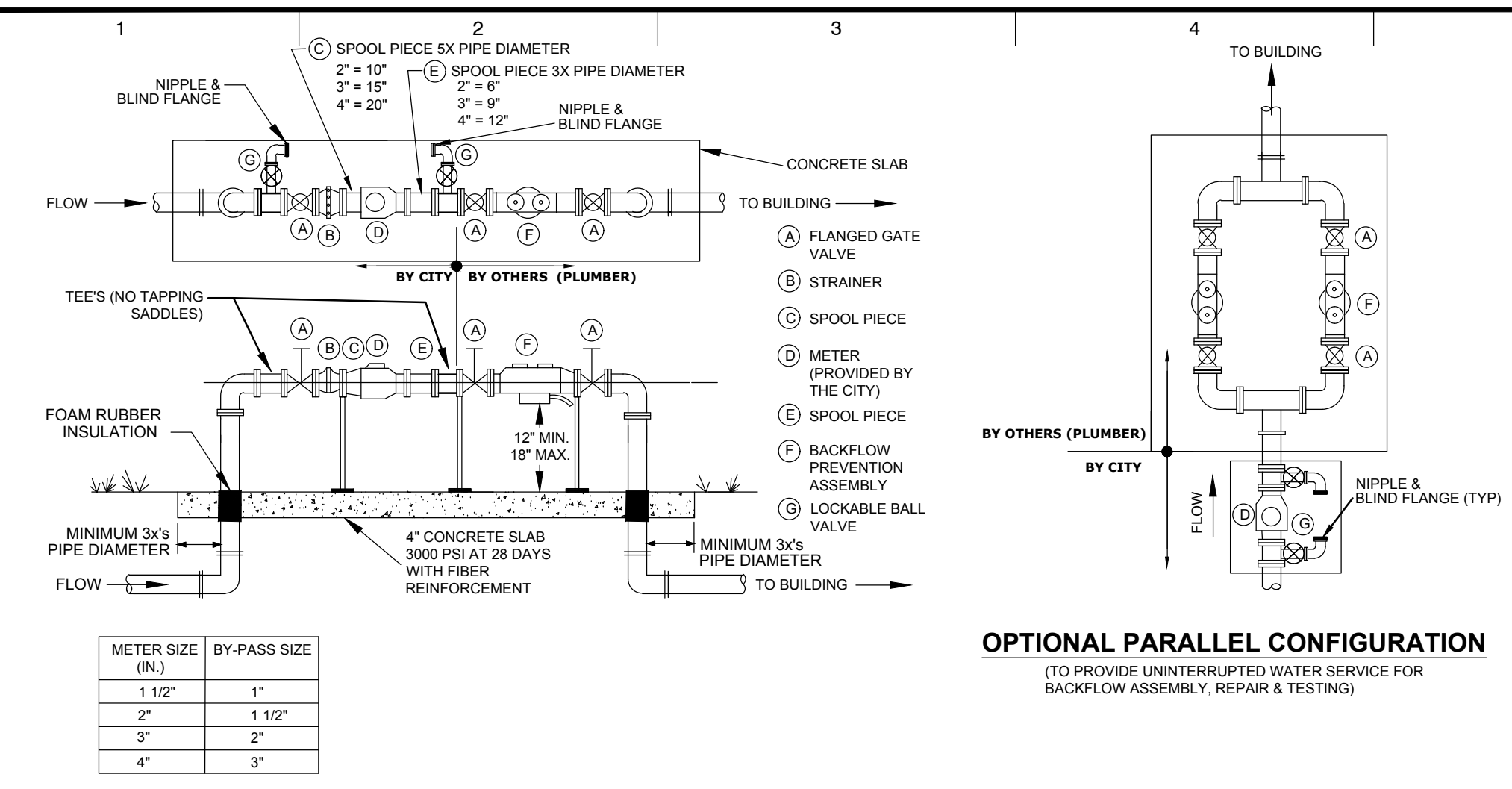
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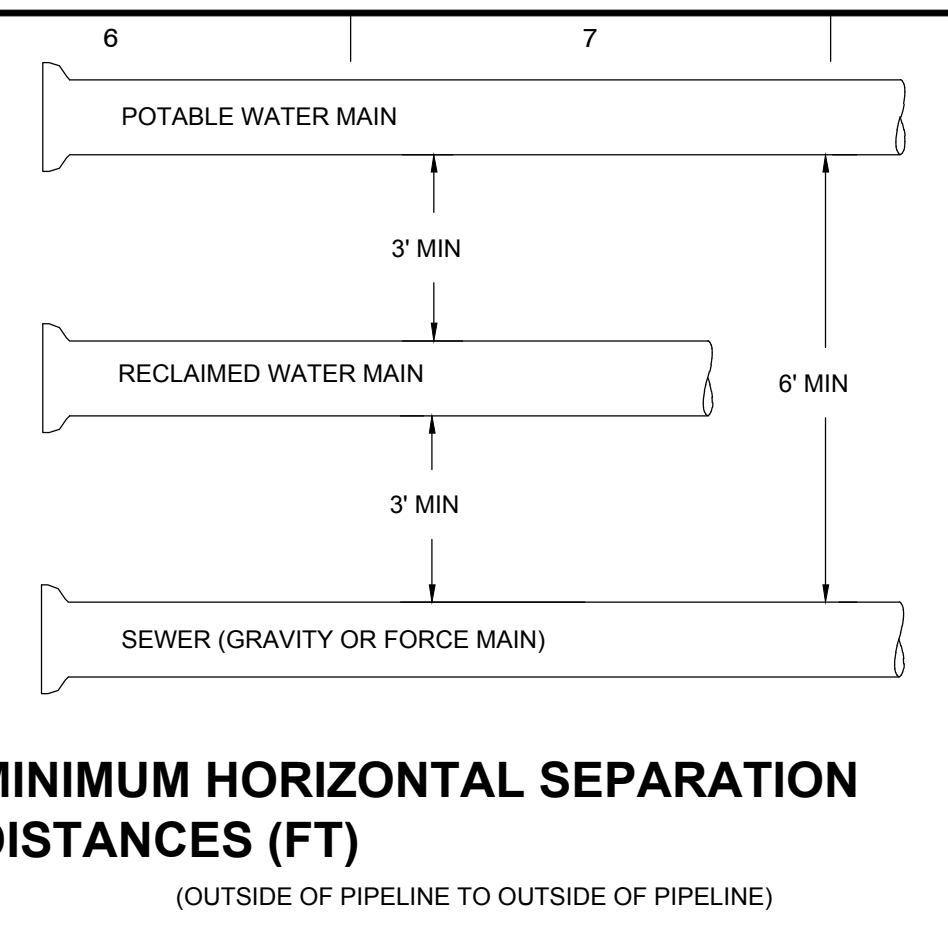
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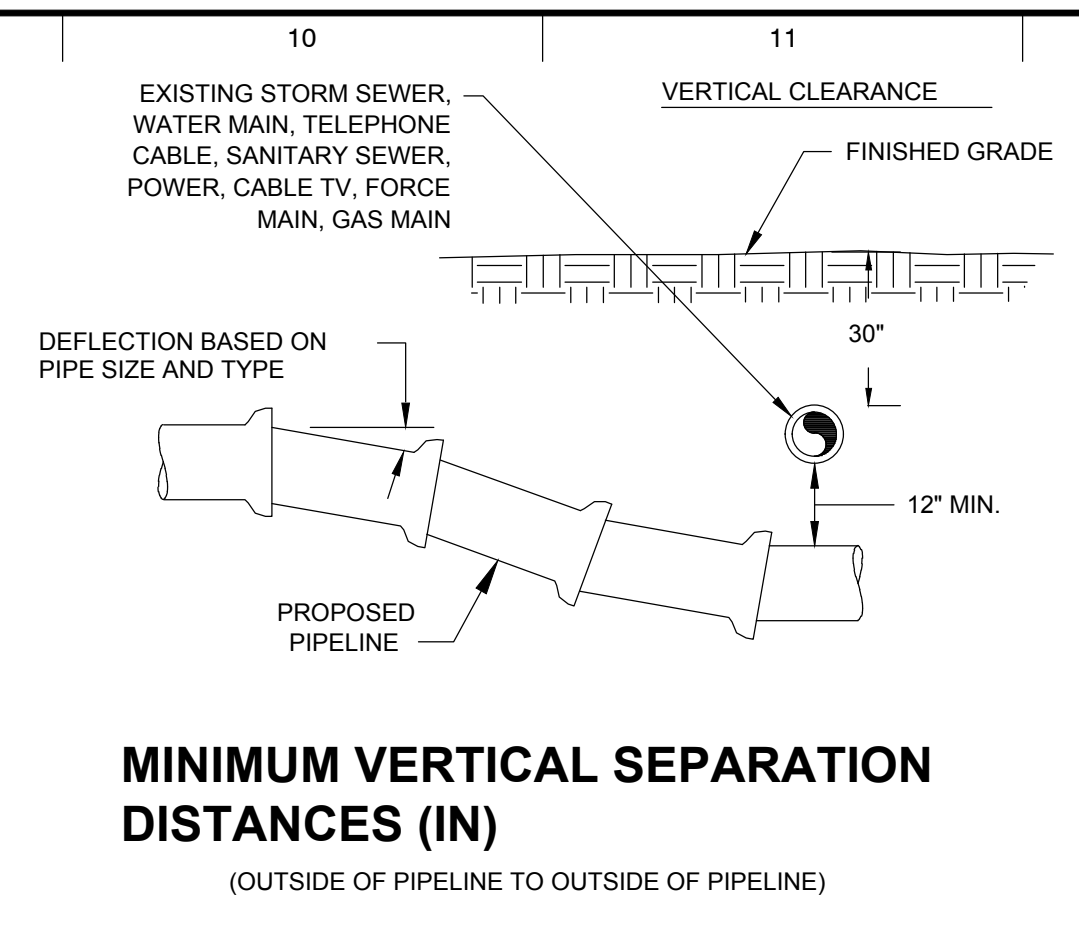
- NOTES:**
- 1.) EITHER 90°-DEGREE OR 45°-DEGREE FITTINGS MAY BE USED WITH THE REQUIRED LENGTH OF RESTRAINED JOINT FITTINGS.
 - 2.) BACKFLOW PREVENTION ASSEMBLY TYPE SHALL BE DETERMINED BY THE CITY OF VENICE UTILITIES DEPARTMENT'S MOST CURRENT CROSS-CONNECTION CONTROL PROGRAM.
 - 3.) ALL BACKFLOW PREVENTION ASSEMBLIES SHALL BE APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH AND/OR ASSE 1013.
 - 4.) ALL CONCRETE PENETRATIONS SHALL REQUIRE PIPE TO BE WRAPPED WITH INSULATING MATERIAL.
 - 5.) VALVES SHALL BE FULL PORTED FULL FLOW BALL VALVES OR RESILIENT WEDGE NON-RISING STEM GATE VALVES.
 - 6.) ALL METERS 1 1/2" & UP WILL HAVE FLANGES. PIPE BETWEEN TAP & ISOLATION VALVE SHALL BE C900 PVC.
 - 7.) PIPE BETWEEN TAP & ISOLATION VALVE SHALL BE C900 PVC.
 - 8.) THE WATER METER MAY BE DOWNSIDES ONE PIPE SIZE ONLY FROM THE BACKFLOW AND ASSEMBLY PIPE SIZE.
 - 9.) 2" AND SMALLER METERS REQUIRE A LOCKABLE CURB STOP. 3" AND LARGER METERS WILL HAVE A FLANGED WHEEL HANDLE RESILIENT WEDGE GATE VALVE.
 - 10.) NO SPOOL PIECE REQUIRED FOR 3/4", 1", OR 1 1/2".
 - 11.) ALL COMMERCIAL AND MULTI FAMILY UNIT METERS MUST BE ABOVE GRADE.
 - 12.) BACKFLOW PREVENTION ASSEMBLY NOT REQUIRED FOR REUSE METER ONLY.
 - 13.) BACKFLOW PREVENTION ASSEMBLIES SHALL NOT BE BY-PASSED.
 - 14.) NO BRANCH OR TEE SERVICE CONNECTIONS, OTHER THAN THE UTILITIES METER BY-PASS RETURN TEE, SHALL EXIST BETWEEN THE WATER METER AND BACKFLOW PREVENTER.
 - 15.) 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.

2 WATER & REUSE METER & BACKFLOW PREVENTION ASSEMBLY
 ABOVE GROUND COMMERCIAL/MULTI-UNIT/SINGLE SERVICE/MASTER METER
 (WITH BY-PASS AROUND METER ONLY)

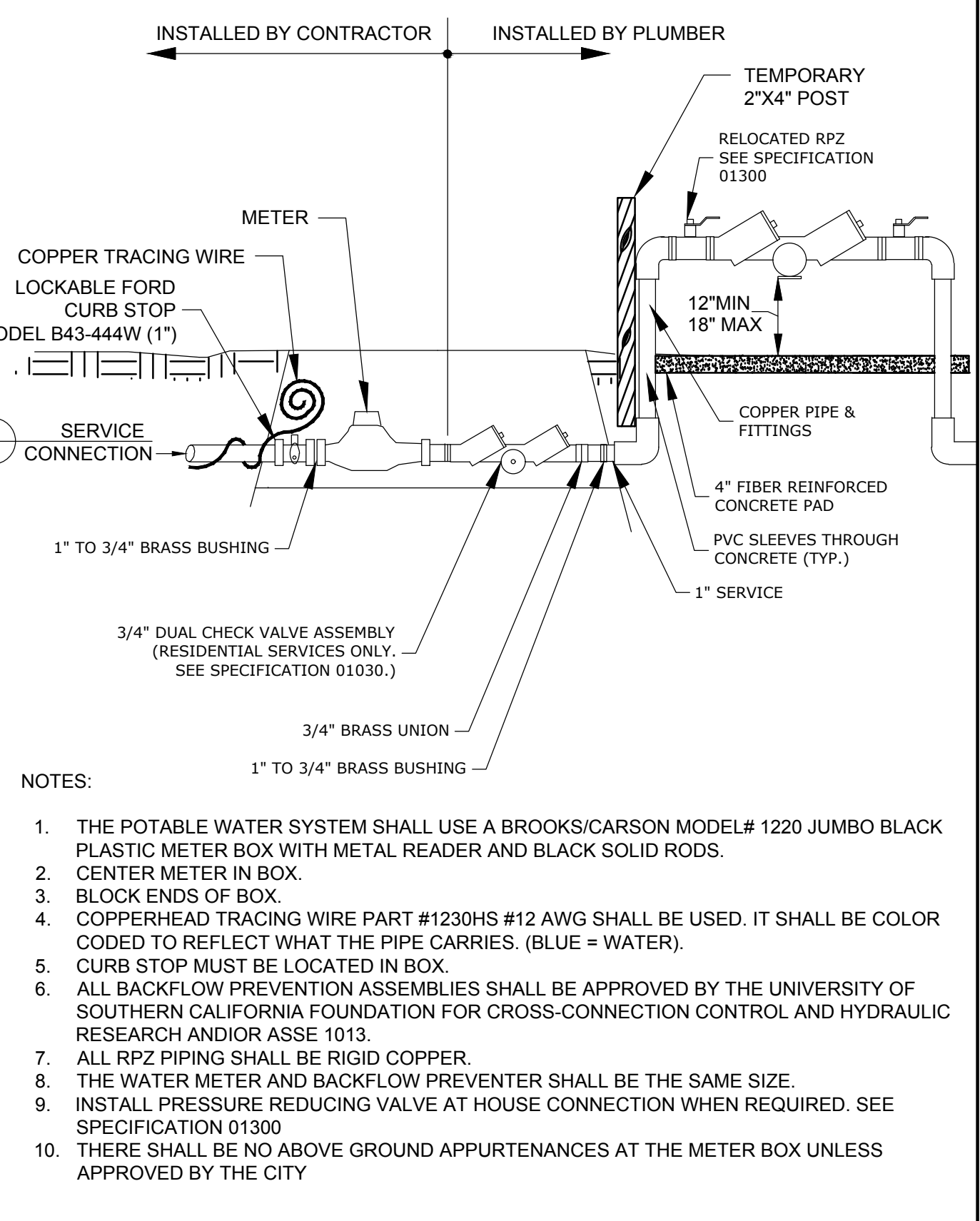


5 UTILITY CONFLICT DETAILS
 MINIMUM HORIZONTAL SEPARATION DISTANCES (FT)
 (OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)

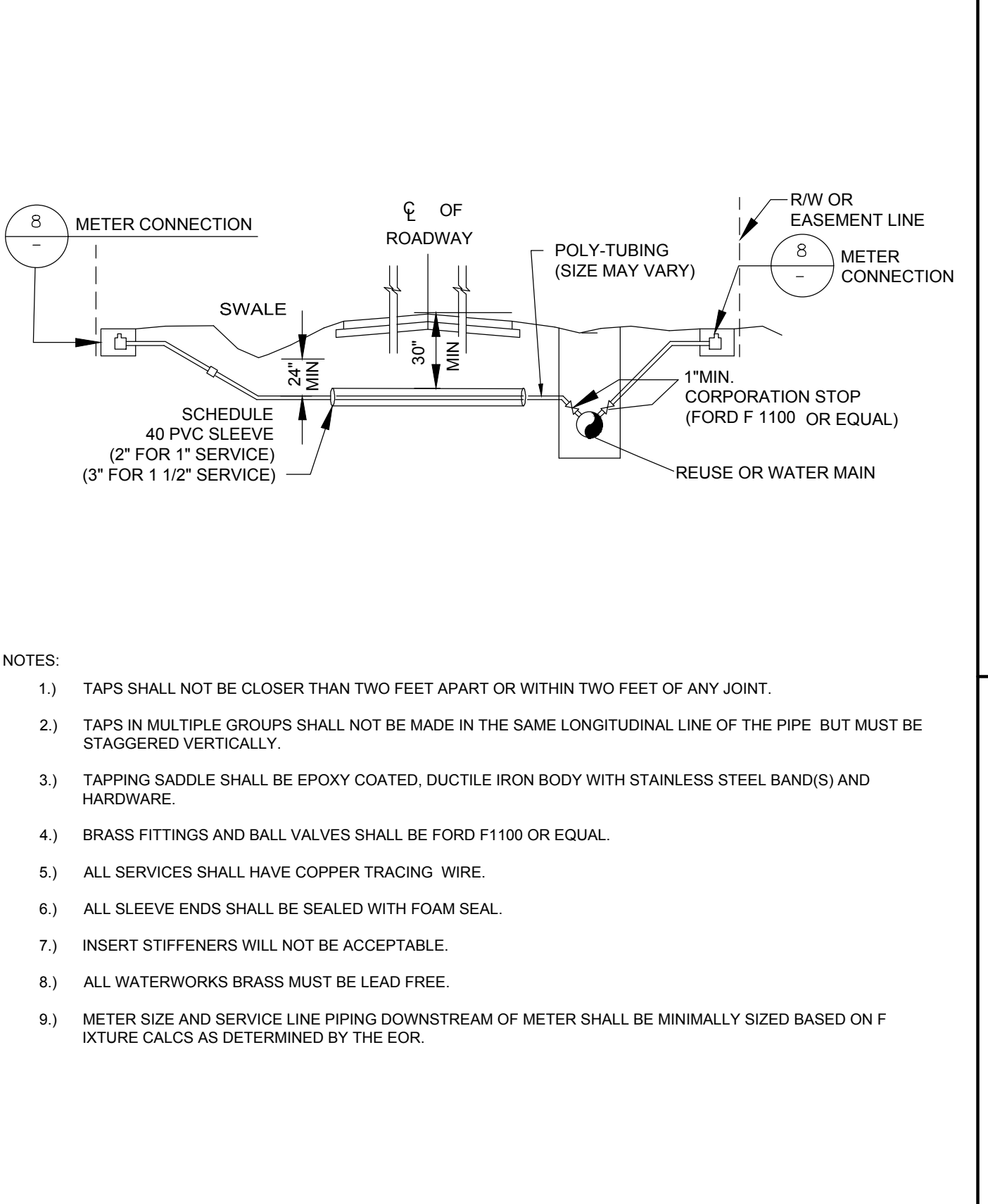
- NOTES:**
- 1.) MAXIMUM JOINT DEFLECTION SHALL BE 90% MAX. OF MANUFACTURER'S RECOMMENDATION.
 - 2.) WHEREVER POSSIBLE, THE STRATIGRAPHY OF UTILITIES SHALL PLACE SANITARY SEWER AND SEWER FORCE MAINS BELOW RECLAIMED MAINS AND BELOW WATER MAINS, RESPECTIVELY. WHERE WATER MAINS ARE ABOVE GRAVITY SEWERS OR WASTEWATER FORCE MAINS, A VERTICAL CLEARANCE OF 6 INCHES IS ACCEPTABLE.
 - 3.) ACCEPTABLE VARIANCES
 - A. WHERE HORIZONTAL SEPARATION CANNOT BE MAINTAINED, C900 DR14 PVC PIPE SHALL BE USED FOR ONE OF THE PIPELINES.
 - B. WHERE VERTICAL CLEARANCE CANNOT BE MAINTAINED, ONE FULL LENGTH OF DR14 C900 PIPE SHALL BE INSTALLED CENTERED AT THE POINT OF CROSSING.
 - C. WHERE 36" MINIMUM DEPTH OF COVER CANNOT BE MAINTAINED, SPECIAL PROTECTION OR PIPE MATERIAL UPGRADE MAY BE REQUIRED, AT THE DISCRETION OF THE CITY ENGINEER.
 - 4.) NO WATER PIPE SHALL PASS THROUGH, OR COME IN CONTACT WITH ANY PART OF A SANITARY MANHOLE OR STORMWATER STRUCTURE.



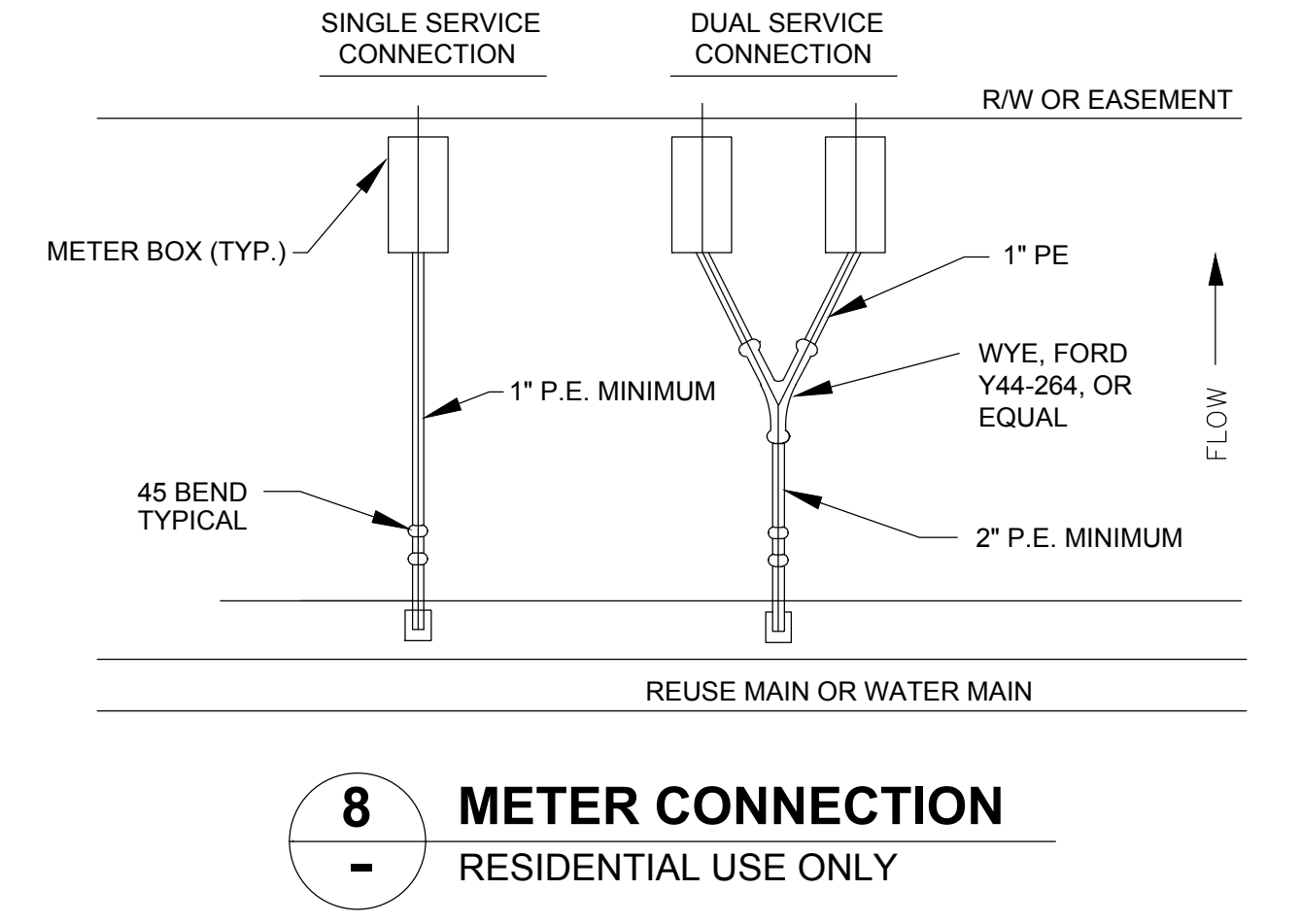
10 MINIMUM VERTICAL SEPARATION DISTANCES (IN)
 (OUTSIDE OF PIPELINE TO OUTSIDE OF PIPELINE)



6 BELOW GROUND WATER METER & REDUCED PRESSURE PRINCIPAL ASSEMBLY

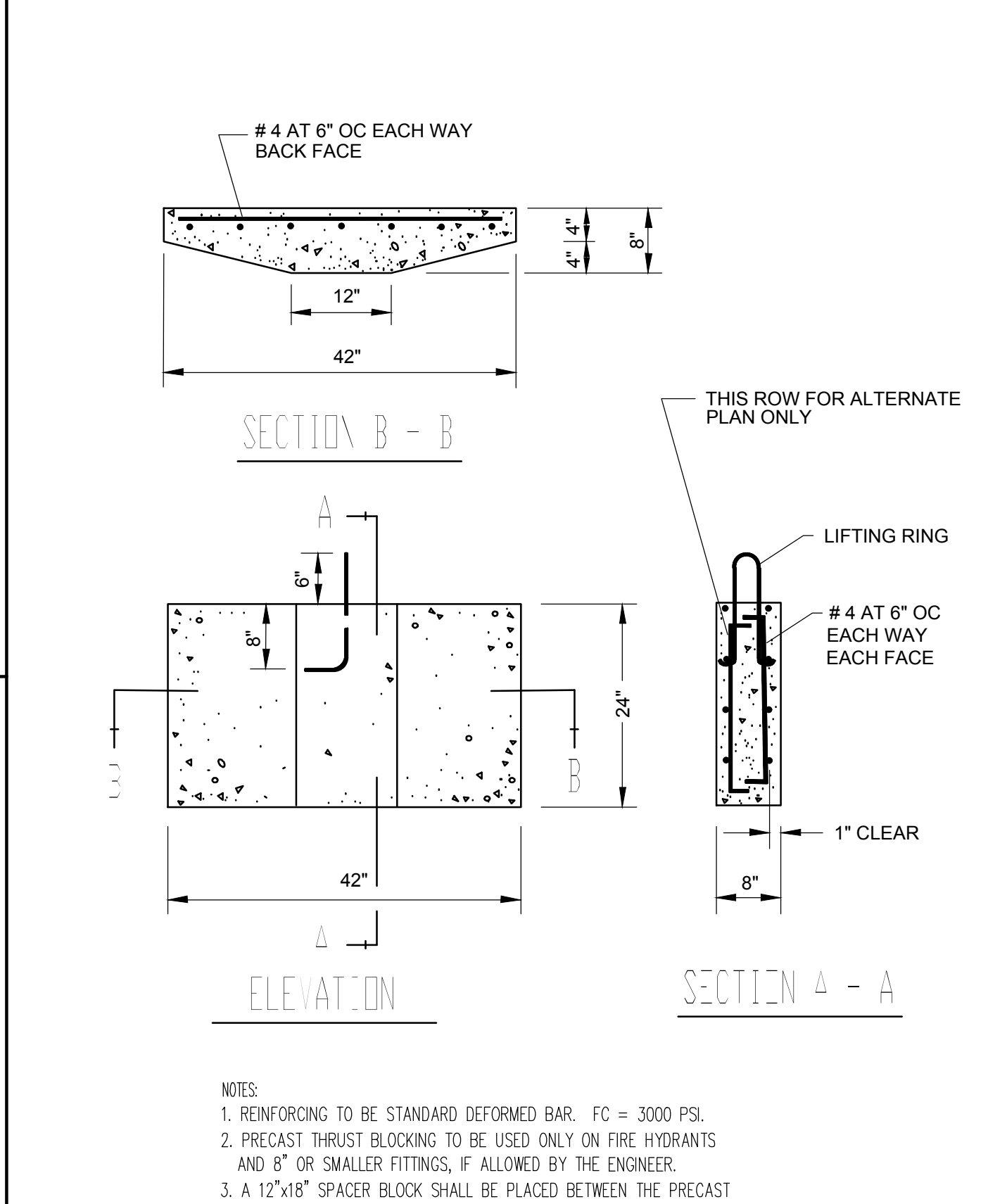


9 SERVICE CONNECTIONS



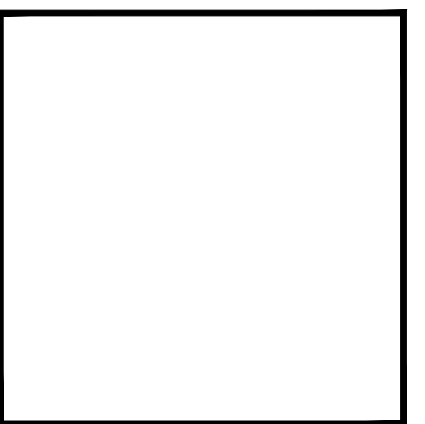
- NOTES:**
- 1.) A DRILLING BORE LOG SHALL BE SUBMITTED WITHIN SEVEN (7) DAYS OF PERFORMING THE BORE. DEPTHS SHALL BE RECORDED AT A MAXIMUM OF EVERY TEN (10) FEET. RECORD DRAWINGS SHALL INDICATE ELEVATIONS.
 - 2.) ALL DBs SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE) WITH DR-11 MINIMUM OR EQUAL.
 - 3.) PIPE SHALL BE COLOR-CODED BY THE PIPE MANUFACTURED DURING FABRICATION INDICATING APPROPRIATE SERVICE.
 - 4.) AIR RELEASE VALVES SHALL BE INSTALLED ON THE UPSTREAM SIDE OF THE BORE.
 - 5.) WELDED MJ ADAPTERS ARE REQUIRED AT BOTH ENDS OF THE BORE. ONLY STAINLESS STEEL INSERT STIFFENERS WILL BE ACCEPTABLE.
 - 6.) TRACE WIRES REQUIRED. SECURE TO PIPE PRIOR TO PULLING.
 - 7.) ISOLATION VALVE SHALL BE INSTALLED ON BOTH SIDES OF DIRECTIONAL BORE.
 - 8.) DIRECTIONAL BORING MUST BE COMPLETED BETWEEN THE HOURS OF 8:00 A.M. AND 3:00 P.M.
 - 9.) ALL D.B.'S CROSSING A DITCH/SWALE MUST BE AT LEAST 36" BELOW ACTUAL/DESIGN BOTTOM OF CONVEYANCE.
 - 10.) STORMWATER DRAINAGE FACILITIES ARE NOT CONSIDERED UNDERGROUND FACILITIES BY FLORIDA STATUTE AND THEREFORE WILL NOT BE LOCATED AND MARKED BY THE FLORIDA STATE ONE CALL SYSTEM. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND AVOID ALL STORMWATER DRAINAGE FACILITIES AND THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM THE DIRECTIONAL BORE WORK.

8 METER CONNECTION
 RESIDENTIAL USE ONLY



11 DIRECTIONAL BORING (DB)
 PRECAST CONCRETE THRUST BLOCK DETAIL

- NOTES:**
1. REINFORCING TO BE STANDARD DEFORMED BAR. FC = 3000 PSI.
 2. PRECAST THRUST BLOCKING TO BE USED ONLY ON FIRE HYDRANTS AND 8" OR SMALLER FITTINGS, IF ALLOWED BY THE ENGINEER.
 3. A 12"x18" SPACER BLOCK SHALL BE PLACED BETWEEN THE PRECAST THRUST BLOCK AND FITTING IF SO DIRECTED BY THE ENGINEER.



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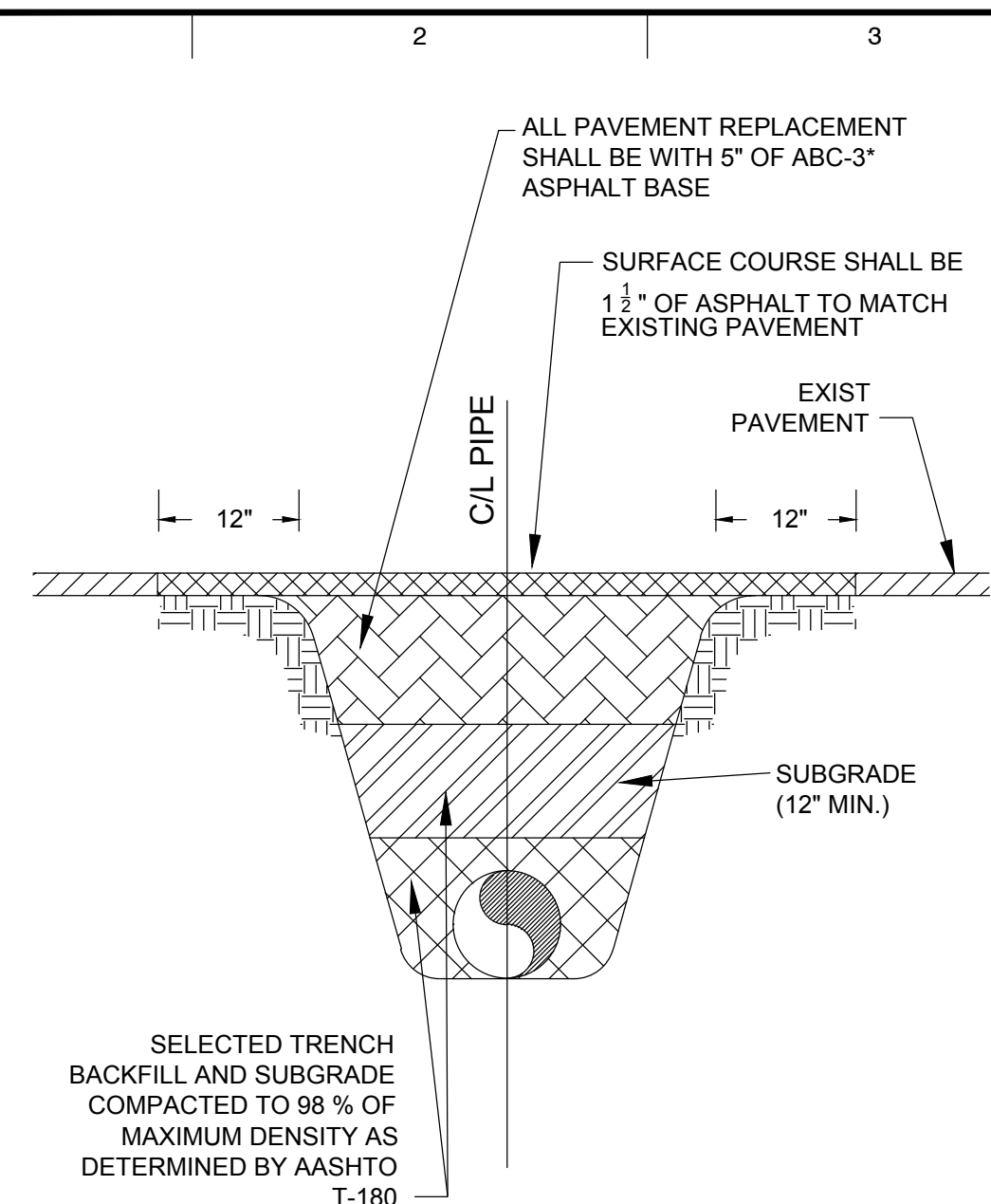
WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
 POTABLE WATER DETAILS (2)

CHRISTOPHER F. KUZLER
 10/26/2017
 FL. P.E. NO. 45532

JOB NO:	4799-010-000
DATE:	10/26/2017
SCALE:	AS SHOWN

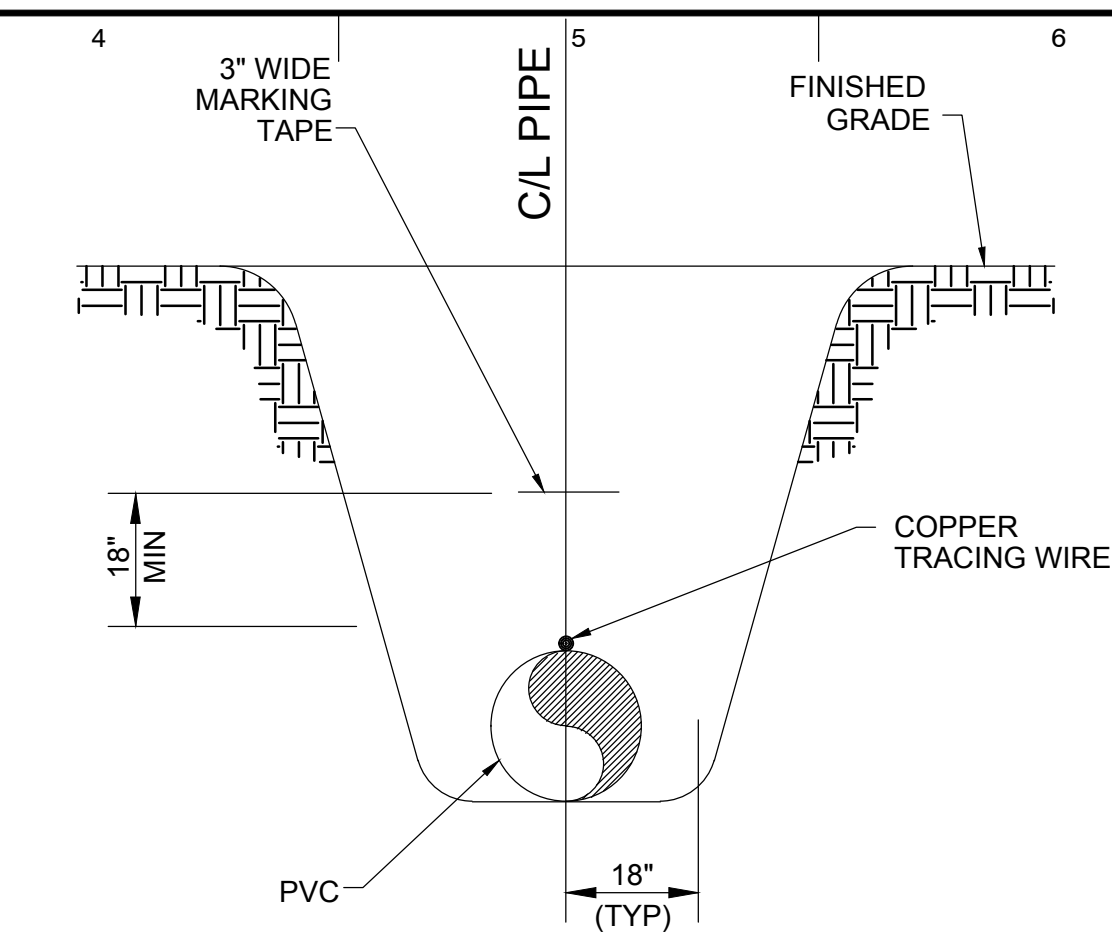
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- NOTES:**
- 1.) ALTERNATE BASE COURSE MATERIALS WITH EQUIVALENT STRUCTURAL THICKNESSES WILL BE CONSIDERED. HOWEVER, SHELL IS UNACCEPTABLE. CEMENT TREATED BASE MATERIAL MUST YIELD COMPRESSIVE STRENGTH WITHIN THE RANGE OF 175 TO 275 PSI. CRUSH CONCRETE AGGREGATE MUST HAVE AN LBR ≥ 150.
 - 2.) REQUIREMENTS FOR INSTALLATION OF PIPELINES IS SHOWN IN DETAIL 1, SHEET 4 OF THESE STANDARDS.
 - 3.) FLOWABLE FILL CONCRETE MAY BE USED IN LIEU OF BACKFILL AND PAVEMENT SUBCOURSES WITH APPROVAL BY THE CITY ENGINEER. DESIGN AND ACCEPTANCE OF FLOWABLE FILL WILL BE GOVERNED BY APPLICABLE FDOT STANDARDS.

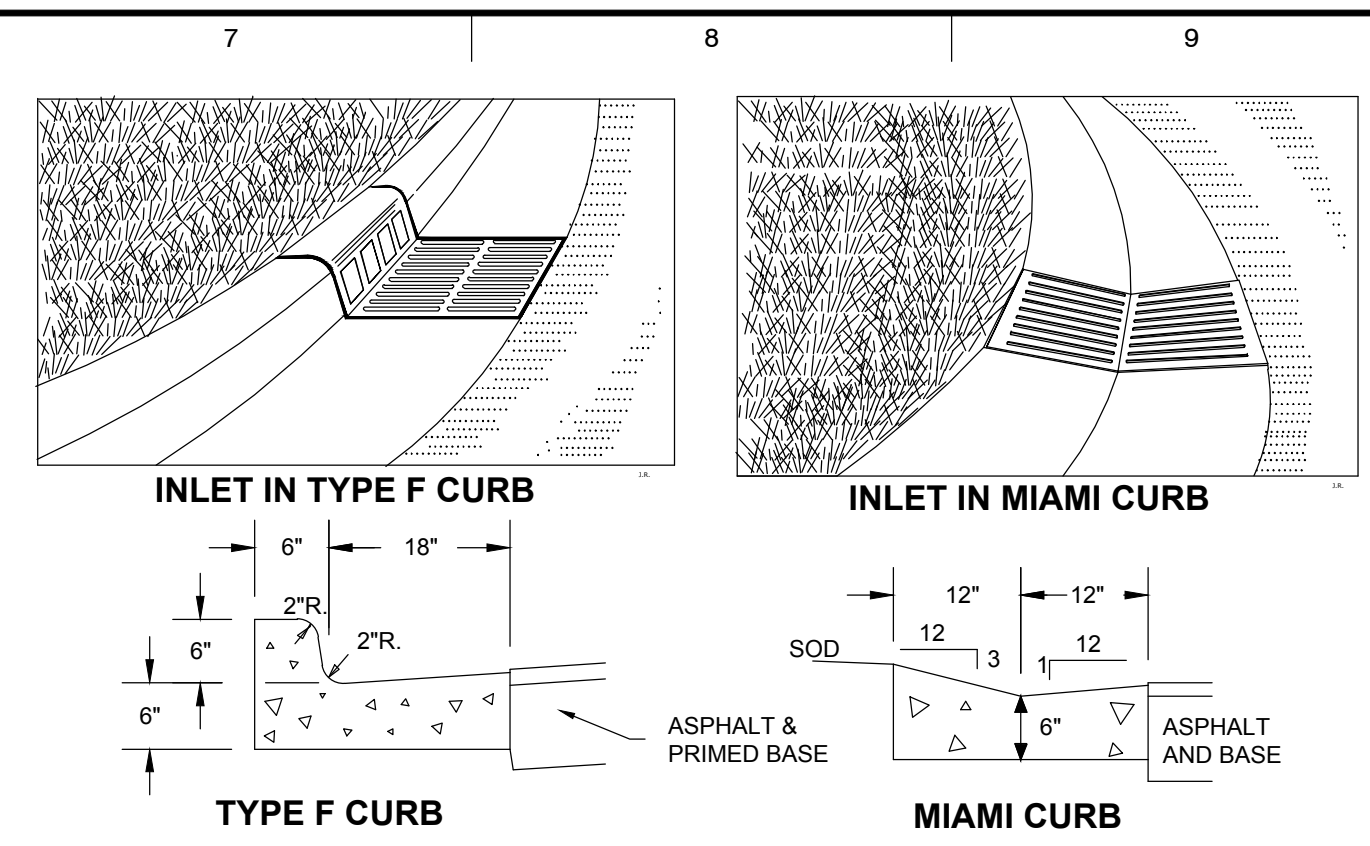
7 PAVEMENT RESTORATION FOR UTILITY TRENCHES



MARKING TAPE AND MESSAGES		
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

- NOTES:**
- 1.) COPPERHEAD TRACING WIRE #12 AWG OR EQUAL SHALL BE ATTACHED TO TOP OF PIPE AT 20' INTERVALS ON 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)
 - 2.) MINIMUM COVER SHALL BE 36" FROM TOP OF PIPE TO FINISHED GRADE. MAXIMUM COVER SHALL BE 42" FROM FINISHED GRADE UNLESS OTHERWISE APPROVED.
 - 3.) INSTALLATION OF PIPE SHALL BE IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 4.) PAVEMENT RESTORATION SHALL CONFORM WITH DETAIL 7, SHEET 3 OF THESE CITY STANDARDS.
 - 5.) CONFLICTS - UTILIZE 45° BENDS WITH SEPARATION AS PER DETAIL 5, SHEET 5.
 - 6.) ALL UTILITIES (PUBLIC & PRIVATE) THAT CROSS A DITCH/SWALE SHALL BE 36" MIN. BELOW THE ACTUAL/DESIGN BOTTOM OF CONVEYANCE.

1 PIPE TRENCH

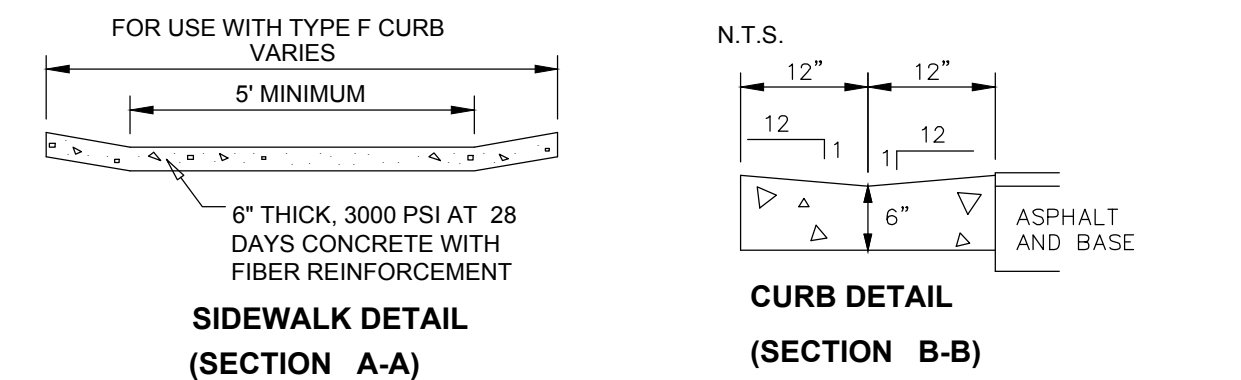
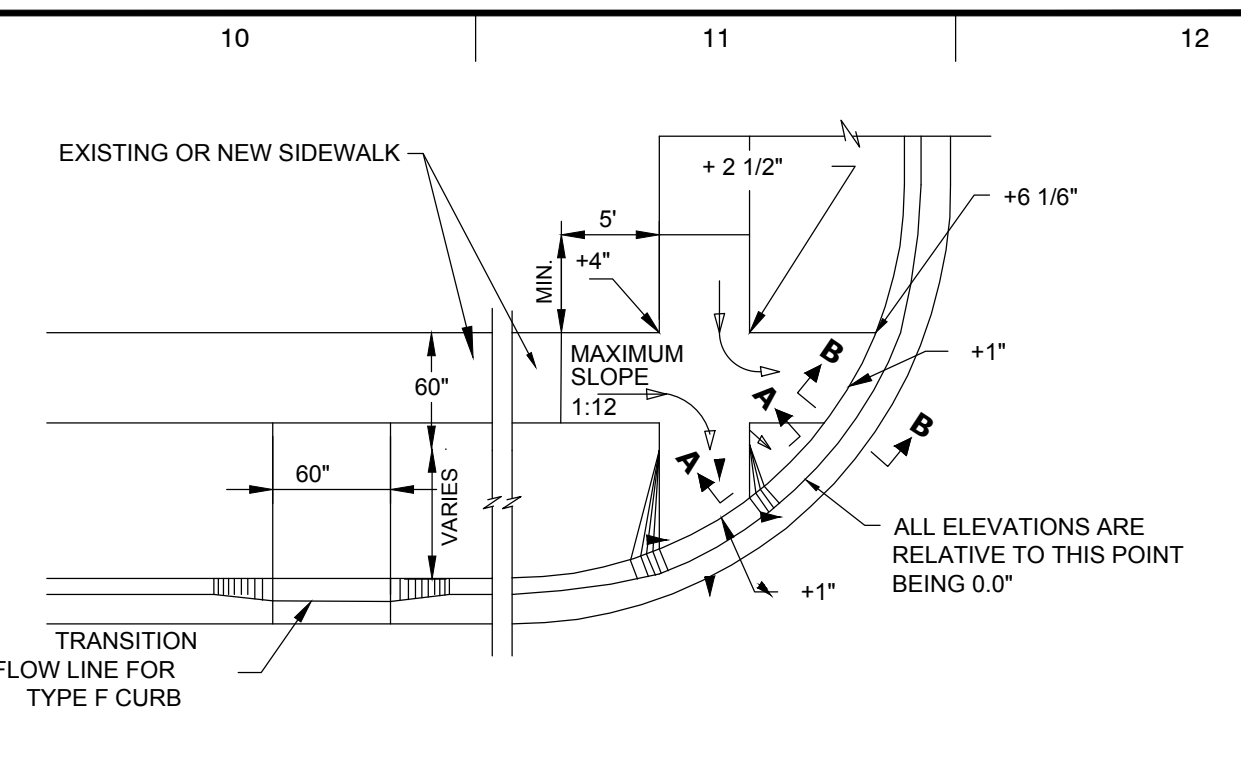


- TYPE F CURB**
- 1.) ALL STREETS SHALL HAVE A TWO-FOOT WIDE CONCRETE (3000 PSI AT 28 DAYS WITH FIBER REINFORCEMENT) CURB AND GUTTER, AND MEET OR EXCEED FDOT SPECIFICATIONS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
 - 2.) ALTERNATE CURB DESIGNS THAT MEET OR EXCEED FDOT SPECIFICATIONS MAY BE USED UPON APPROVAL BY THE CITY ENGINEER.

4 PAVEMENT STANDARDS

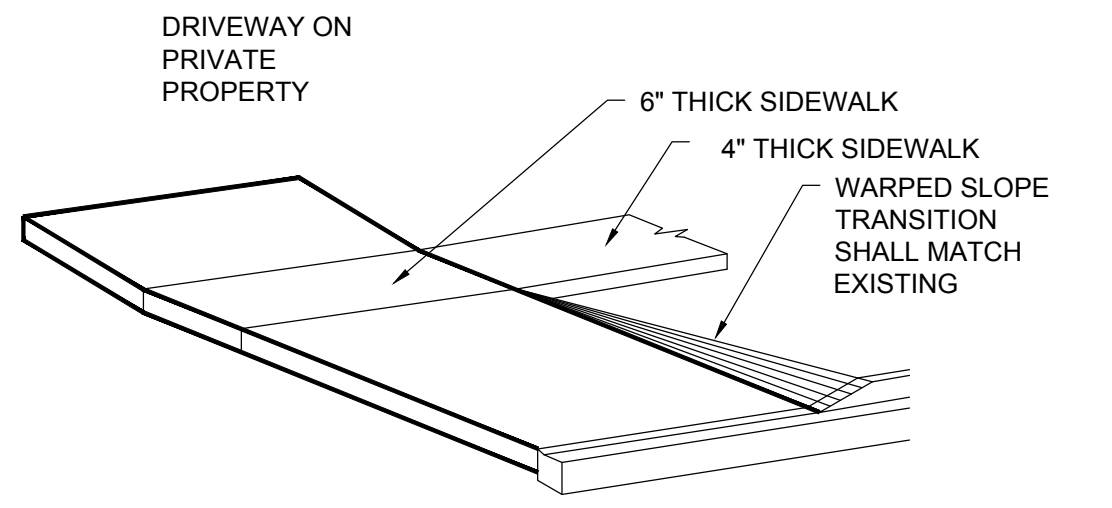
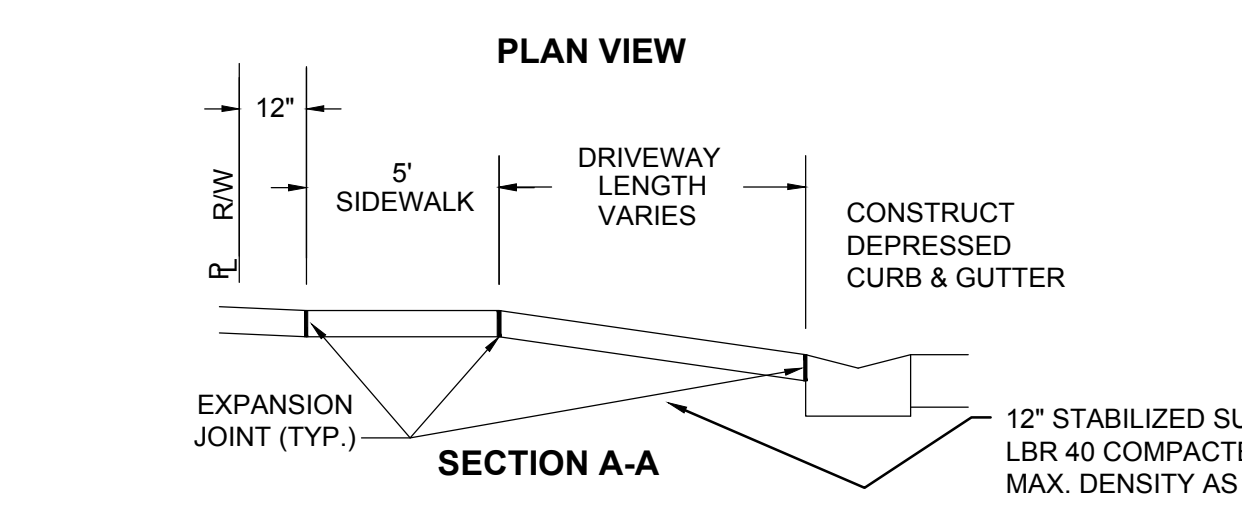
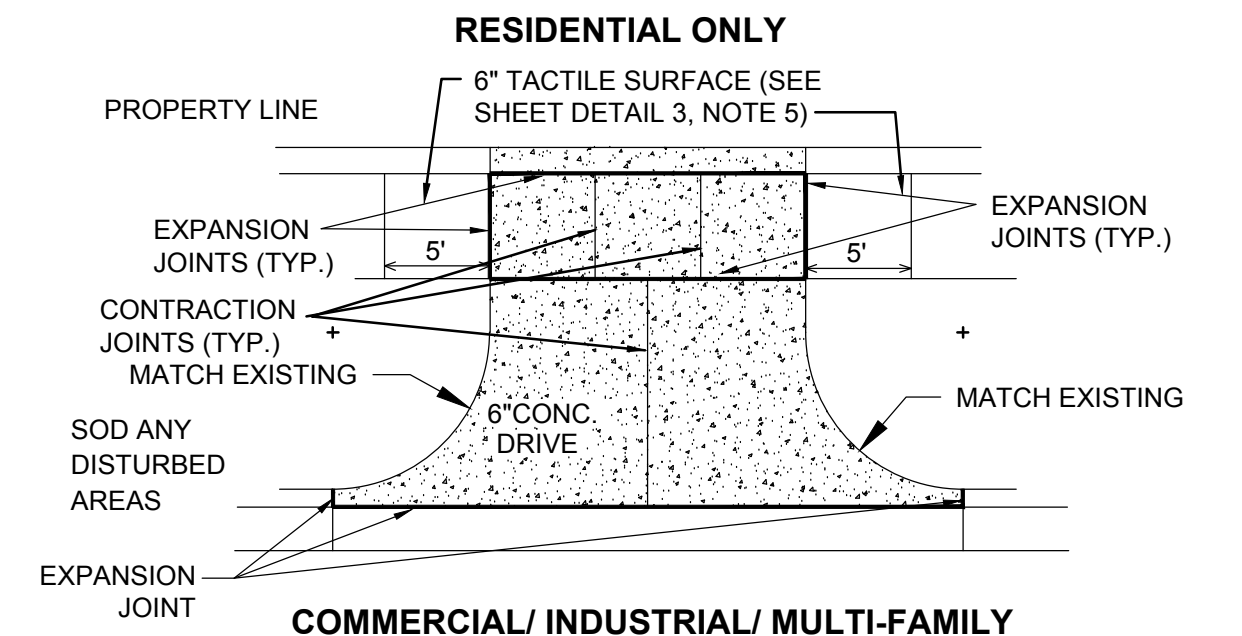
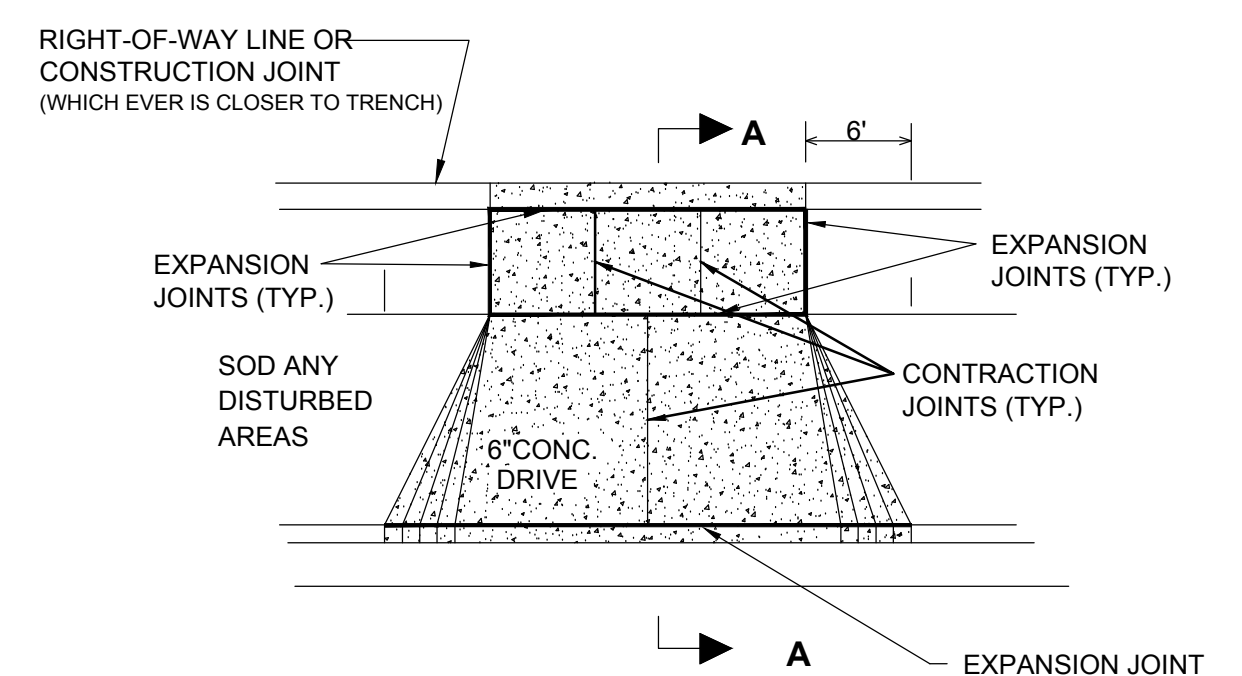
- A.) HEAVY DUTY:** COMMERCIAL AND INDUSTRIAL DEVELOPMENTS WITHIN PRIMARY ACCESSWAYS, PARKING LOTS, ETC. WITH EXPOSURE TO TRUCK TRAFFIC
- B.) LIGHT DUTY:** RESIDENTIAL SUBDIVISIONS AND COMMERCIAL DEVELOPMENTS WITHIN LOW VOLUME ACCESSWAYS, PARKING LOTS, ETC. (LESS THAN 10% TRUCK TRAFFIC)
- | | A | B |
|--|-----|----|
| SUBGRADE - TYPE B STABILIZED LBR 40 MIN. | 12" | 8" |
| ABC3 - ASPHALT BASE | 5" | 4" |
| CTB | 10" | 7" |
| CCA | 10" | 7" |
- ALTERNATE PAVEMENT FOR PARKING LOTS ONLY:
 SUBGRADE - 12" TYPE B STABILIZED LBR 40 MIN.
 PAVEMENT - 6" CONCRETE 3000PSI @28 DAYS WITH MAX. 4" SLUMP & FIBER REINFORCEMENT.
 NOTE: ALL TRAFFIC CALMING DEVICES MUST BE APPROVED BY THE FIRE CHIEF.

4 PAVEMENT STANDARDS



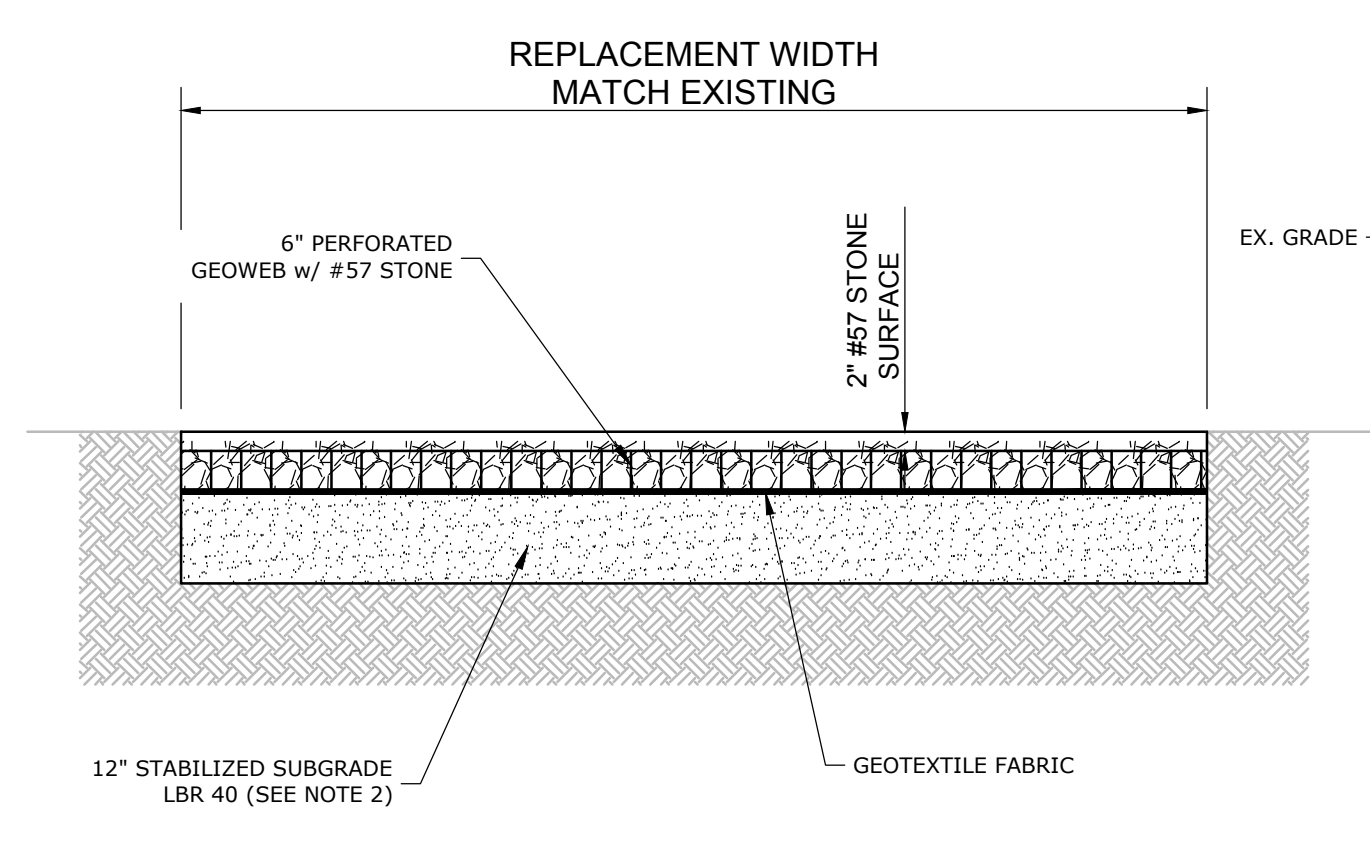
- NOTES:**
- 1.) ALL CONCRETE RAMPS SHALL BE 4" THICK, INCREASING TO 6" THICK WITHIN 48" OF THE CURB
 - 2.) ALL CONNECTIONS TO AN EXISTING SIDEWALK SHALL BE AT AN EXPANSION OR CONTRACTION JOINT
 - 3.) WHERE PEDESTRIAN MOVEMENT CROSSES RAMP, THE MAXIMUM SLOPE SHALL BE 1:12
 - 4.) ALL RAMPS AND WALKS WITHIN THREE FEET OF A FREQUENTLY USED DRIVE (GREATER THAN DUPLEX) SHALL HAVE A TACTILE SURFACE. RAMPS ARE DEFINED AS WALKS WITH A SLOPE GREATER THAN 1:12 AND/OR ADJACENT TO CURBS.
 - 5.) TACTILE SURFACES SHALL MEET THE MOST CURRENT AMERICANS WITH DISABILITIES ACT STANDARDS AND SHALL BE BRICK RED IN COLOR.
 - 6.) ALL MATERIALS & METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE FDOT, "STANDARDS FOR ROAD & BRIDGE CONSTRUCTION". IN ADDITION, CONCRETE SHALL BE 3000 PSI AT 28 DAYS WITH A MAXIMUM 4" SLUMP AND FIBER REINFORCEMENT.

3 TYPICAL HANDICAPPED RAMP



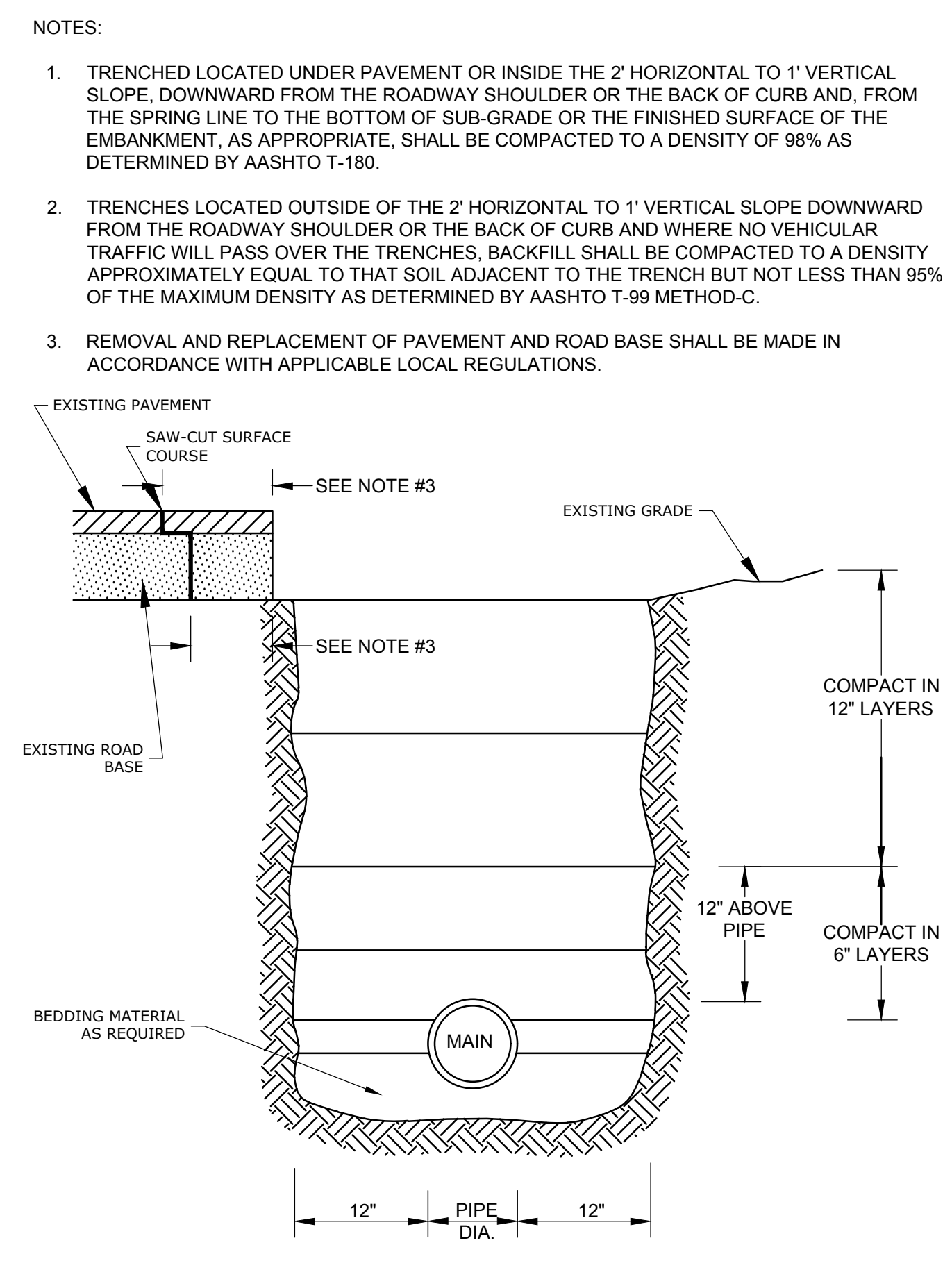
- NOTES:**
- 1.) SIDEWALKS SHALL BE CONSTRUCTED OF 3000 PSI AT 28 DAYS CONCRETE (MAXIMUM 4" SLUMP) WITH FIBER REINFORCEMENT.
 - 2.) ALL SIDEWALKS WIDTHS AND SLOPES SHALL MATCH EXISTING.
 - 3.) CONTRACTION SAW-CUTS SHALL BE CONSTRUCTED EVERY 5' LENGTH OF SIDEWALK. EXPANSION JOINTS SHALL BE CONSTRUCTED AT 50' INTERVALS.
 - 4.) 1/2-INCH THICK ASPHALTIC FELT OR "PRESSURE TREATED WOOD" SHALL BE PLACED AT EACH EXPANSION JOINT.
 - 5.) EXISTING CURB AND GUTTER SHALL BE REMOVED ONLY AT EXISTING JOINTS.
 - 6.) DRIVEWAY WIDTH AND LOCATION SHALL COMPLY WITH ZONING CODES, SECTIONS 122-446, 62-64, 62-65.
 - 7.) ALL MATERIALS & METHODS OF CONSTRUCTION SHALL BE IN 7.) ACCORDANCE WITH LATEST EDITION OF THE FDOT, "STANDARDS FOR ROAD & BRIDGE CONSTRUCTION". IN ADDITION, CONCRETE SHALL BE 3000 PSI AT 28 DAYS WITH A MAXIMUM 4" SLUMP AND FIBER REINFORCEMENT.
 - 8.) DRIVEWAY SLOPES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FDOT, "ROADWAY AND TRAFFIC DESIGN STANDARDS", INDEX 515.

5 DRIVEWAY AND SIDEWALK DETAILS



- NOTES:**
- 1.) EXCAVATE OR FILL THE SUBGRADE SOIL TO THE GRADES, ELEVATIONS AND DIMENSIONS SHOWN ON THE CONSTRUCTION DRAWINGS.
 - 2.) COMPACT THE TOP 12-INCHES OF THE SUBGRADE SOIL, TO A MINIMUM 98% OF STANDARD PROCTOR DRY DENSITY (SPDD).
 - 3.) EXPAND GEOWEB SECTIONS, DIMENSIONED ACCORDING TO THE CONSTRUCTION DRAWINGS, INTO POSITION USING STRETCHER FRAMES, TEMPORARY STAKES, OR OTHER SUITABLE METHODS TO TEMPORARILY HOLD IN PLACE. INTERLEAF OR OVERLAP ADJACENT SECTIONS ACCORDING TO WHICH SIDE WALL PROFILES ABUT. ENSURE THAT ALL ADJOINING CELLS ARE FULLY STAPLED.
 - 4.) PLACE THE SPECIFIED INFILL MATERIAL APPROXIMATELY 2-INCHES ABOVE THE CELL WALLS. COMPACT THE INFILL MATERIAL TO A MINIMUM OF 95% SPDD.
 - 5.) PLACE AND COMPACT ADDITIONAL SURFACE MATERIAL AS REQUIRED BY DESIGN.

GRAVEL DRIVEWAY REPLACEMENT DETAIL



TYPICAL TRENCH BACKFILL DETAIL

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WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
PIPE TRENCHING & PAVEMENT RESTORATION DETAILS

CHRISTOPHER F. KUZLER
 10/26/2017
 FL. P.E. NO. 45532

JOB NO: 4799-010-000
 DATE: 10/26/2017
 SCALE: AS SHOWN

D1.03
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 10/26/2017

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WORK_ZONE TRAFFIC CONTROL GENERAL NOTES:

1. ALL WORK ZONE TRAFFIC CONTROL (WZTC) DEVICES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE PROPERLY MAINTAINED AND OPERATED THROUGHOUT THE PERIOD OF EACH PHASE / STAGE OF CONSTRUCTION. ALL TEMPORARY SIGNS, PAVEMENT MARKINGS, WARNING DEVICES, WARNING LIGHTS, ETC. NECESSARY FOR THE WZTC SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND THE FDOT DESIGN STANDARDS (2015).
2. THE EXISTING POSTED SPEED LIMIT TO BE MAINTAINED ON THE ALL ROADS REQUIRING TRAFFIC CONTROL DEVICES..
3. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PEDESTRIAN OR BICYCLIST TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT A SAFE AND UNOBSTRUCTED ACCESSIBLE PATH EXISTS FOR PEDESTRIANS OR BICYCLISTS WHEN AN EXISTING ACCESSIBLE PATH IS LOCATED WITHIN THE WZTC PROJECT LIMITS. REFER TO FDOT STANDARD INDEX 660.
4. EXISTING SIGNS SHALL BE MAINTAINED AT ALL TIMES. DURABLE OPAQUE SHEET OVERLAY PANELS SHALL BE USED TO COVER INAPPROPRIATE INFORMATION ON NEW OR EXISTING SIGNS WHERE REQUIRED BY THE ENGINEER. THE PANEL SHALL BE PLACED IN A MANNER THAT DOES NOT DAMAGE THE EXISTING SIGN. NO FABRIC OR PLASTIC FILM WILL BE ALLOWED.
5. ALL REFLECTIVE PAVEMENT MARKINGS, EXISTING AND TEMPORARY, SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS NOTED OTHERWISE.
6. MAXIMUM SPACING BETWEEN BARRICADES WITHIN TAPERS SHALL BE 10 FEET, UNLESS OTHERWISE NOTED ON PLANS. MAXIMUM SPACING BETWEEN BARRICADES SHALL BE 20 FEET OUTSIDE TRANSITIONS, UNLESS OTHERWISE NOTED ON PLANS.
7. FOR DROP-OFFS IN WORK ZONES THE CONTRACTOR IS DIRECTED TO THE REQUIREMENTS OF FDOT STANDARD INDEX NO. 600. THE CONTRACTOR SHOULD ATTEMPT TO ONLY EXCAVATE OR MILL AN AREA THAT CAN BE BROUGHT BACK WITHIN THE DROP-OFF CRITERIA OF FDOT STANDARD INDEX NO. 600 WITHIN THE SAME WORK PERIOD. ANY DROP-OFF PERIOD THAT WILL REMAIN BEYOND ONE WORK PERIOD WILL REQUIRE THE USE OF BARRIERS. (FOR CLEAR ZONE WIDTHS FOR WORK ZONES, SEE FDOT INDEX NO. 600). ALL TRENCHES SHOULD BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE.
8. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE FOR ALL PHASES OF CONSTRUCTION. ADDITIONAL DETAILS AND STRUCTURES NOT SHOWN IN THE WZTC PLANS MAY BE NECESSARY DEPENDING UPON CONTRACTOR METHODS OF CONSTRUCTION.
9. ALL SIGNS, WITH THE EXCEPTION OF FLAGGING, SHALL BE POST MOUNTED.
10. CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEERING DIVISION A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE MOT.
11. THE CONTRACTOR SHALL PROVIDE THE CITY WITH THE NAME OF THE PERSON ON THE CONTRACTOR'S STAFF DESIGNATED TO BE RESPONSIBLE FOR THE IMPLEMENTATION OF ALL PHASES OF MOT PRIOR TO THE BEGINNING OF CONSTRUCTION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING FORMAL MOT INSPECTIONS AND SHALL IMMEDIATELY REPLACE ALL EQUIPMENT AND DEVICES NOT CONFORMING TO FDOT AND CITY STANDARDS. THESE INSPECTIONS SHALL TAKE PLACE AT LEAST ONCE A WEEK. SOME OF THESE INSPECTIONS SHALL BE CONDUCTED AT NIGHT. THE CITY SHALL BE ADVISED OF THE SCHEDULE OF THE INSPECTIONS AND BE GIVEN THE OPPORTUNITY TO JOIN IN THE INSPECTION.
13. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER EMERGENCY CONDITIONS MAY REQUIRE THE CITY INSPECTOR TO MODIFY ANY CHANNELIZATION SHOWN IN THESE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS. AS DIRECTED BY THE CITY INSPECTOR, WITHOUT DELAY.
14. WARNING LIGHTS SHALL BE USED TO MARK BARRICADES AT NIGHT AS NEEDED.
15. THE CONTRACTOR SHALL RETURN THE GROUND TO ITS ORIGINAL CONDITION OR PROPOSED FINAL GRADE, WHEN REMOVING ANY TEMPORARY PAVEMENT.
16. DUST CONTROL MEASURES SHALL BE IMPLEMENTED ON ALL UNPAVED SURFACES UNTIL PAVED.
17. ANY EXISTING STREET AND ROAD NAME SIGNS THAT ARE IMPACTED BY CONSTRUCTION ARE TO BE TEMPORARILY RELOCATED AND KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
18. CONTRACTOR MUST MAINTAIN EXISTING SIGNING DURING ALL CONSTRUCTION. IF SIGNS ARE DAMAGED DUE TO HIS ACTIVITY, THE CONTRACTOR IS REQUIRED TO REPLACE THEM PROMPTLY IN ACCORDANCE WITH CURRENT CITY OR FDOT STANDARD SPECIFICATIONS AT NO ADDITIONAL COST TO THE CITY.
19. PROJECT WORK HOURS ARE BETWEEN 7:00 A.M. AND 7:00 P.M. UNLESS NOTED OTHERWISE.
20. ALL ROAD CLOSED SIGNS SHALL BE MOUNTED ON TYPE III BARRICADES.

WORK WITHIN LOCAL STREET RIGHT-OF-WAY

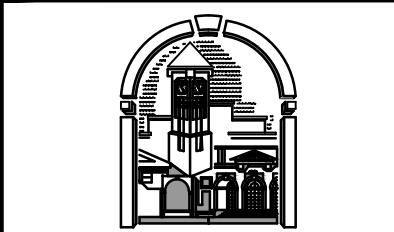
1. REFER TO FDOT INDICES 601 & 602 WHEN WORKING OUTSIDE OF THE ROADWAY.
2. REFER TO LOCAL STREET / LANE CLOSURE DETAIL WHEN THE WORK REQUIRES THE CLOSING OF ONE OR BOTH LANES OF TRAVEL. SHEET TC1.02.
3. WORK ZONE SHALL BE LIMITED TO A MAXIMUM LENGTH OF ONE BLOCK OR A MAXIMUM AREA THAT CAN BE RESTORED AND OPENED TO TRAFFIC WITHIN ONE WEEK PERIOD. NO RESIDENTIAL ACCESS MAY BE CLOSED/RESTRICTED FOR A PERIOD GREATER THAN ONE DAY. FOR ANY HANDICAPPED/SPECIAL NEEDS RESIDENTS, THE CONTRACTOR SHALL EMPLOY MEANS SUCH AS STEEL PLATES TO MAINTAIN EMERGENCY DRIVEWAY ACCESS.
4. INSTALL TRAFFIC CONTROL DEVICES.
5. MAINTAIN TRAVEL LANES FOR DETOUR ROUTES ON ADJACENT LOCAL ROADS, IF NEEDED.
6. CONSTRUCT IMPROVEMENTS.
7. RECONSTRUCT ALL DISTURBED AREAS FOR WORK ZONES REQUIRING CLOSURES/DETOURS PRIOR TO PROCEEDING TO ANY OTHER AREA REQUIRES A LANE CLOSURE.

WORK WITHIN ROADWAY RIGHT-OF-WAY FOR HARBOR DRIVE

1. MAINTAIN EXISTING TRAVEL LANES AT ALL TIMES
2. REFER TO FDOT INDICES 601 & 602 WHEN WORKING ALONG SHOULDER OUTSIDE OF THE TRAVEL LANES.
3. IF REQUIRED, TRAVEL LANE MAY BE REDUCED TO 10 FEET WIDTH FOR CONSTRUCTION ACTIVITIES BY APPLYING FDOT INDEX 602.
4. PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES SHALL BE UTILIZED PER FDOT INDEX 600 WHEN WORKING ADJACENT TO CROSSWALKS OR THE BICYCLE LANE.

WORK WITHIN S. TAMiami TRAIL ROADWAY RIGHT-OF-WAY

1. MAINTAIN EXISTING TRAVEL LANES. ALL WORK ACTIVITIES SHALL OCCUR OUTSIDE OF ROADWAY.
2. REFER TO FDOT INDICES 601 & 602 WHEN WORKING ALONG SHOULDER.
3. REFER TO FDOT INDEX 660 FOR SIDEWALK CLOSURE DETAILS.



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**WATER MAIN
REPLACEMENT PROGRAM**

PHASE 5

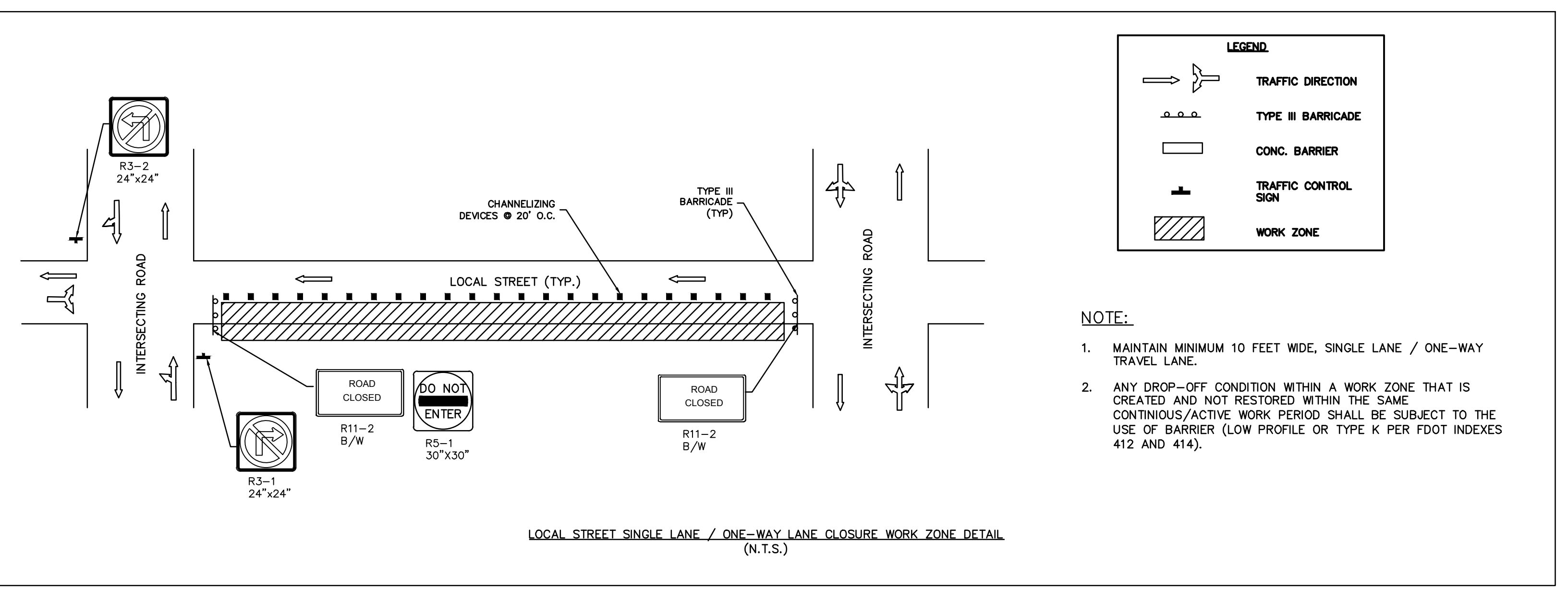
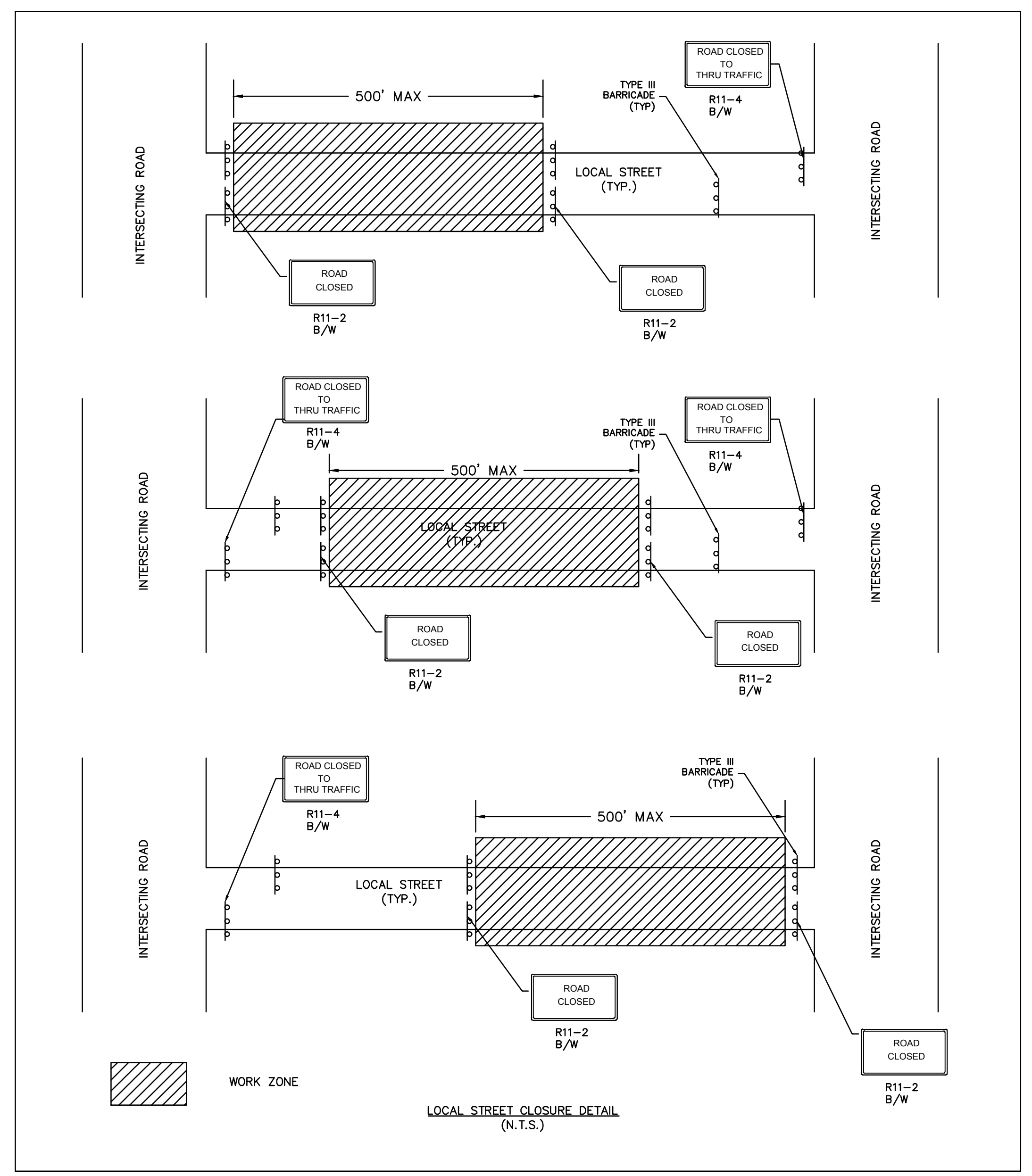
TRAFFIC CONTROL GENERAL NOTES

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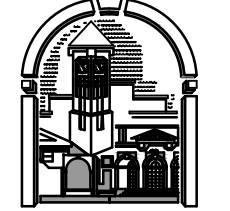
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- NOTE:**
1. MAINTAIN MINIMUM 10 FEET WIDE, SINGLE LANE / ONE-WAY TRAVEL LANE.
 2. ANY DROP-OFF CONDITION WITHIN A WORK ZONE THAT IS CREATED AND NOT RESTORED WITHIN THE SAME CONTINUOUS/ACTIVE WORK PERIOD SHALL BE SUBJECT TO THE USE OF BARRIER (LOW PROFILE OR TYPE K PER FDOT INDEXES 412 AND 414).


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WATER MAIN REPLACEMENT PROGRAM
 PHASE 5
TRAFFIC CONTROL LOCAL STREET-LANE CLOSURE DETAILS

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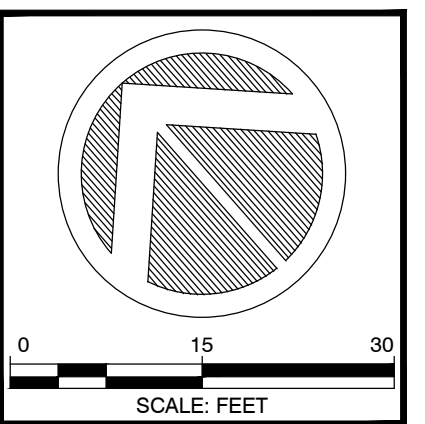
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MATCHLINE - SEE SHEET C1.28

MATCHLINE - SEE SHEET C1.33



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**WATER MAIN
REPLACEMENT PROGRAM**
PHASE 5
GUILD DR. STA. 420+56 THRU STA. 424+87

CHRISTOPHER F. KUZLER
10/26/2017
FL. P.E. NO. 45532

JOB NO: 4799-010-000
DATE: 10/26/2017
SCALE: AS SHOWN

C1.34
BID DOCUMENTS
10/26/2017

STATION EQUATION
GUILD DR STA. 423+09.40 =
PINE GROVE DR STA. 523+86.38

WATER SERVICE NOTE
CONTRACTOR SHALL COORDINATE WITH PROPERTY
OWNER AND CITY REPRESENTATIVE PRIOR TO
INSTALLATION OF THE NEW METER AND SERVICE.