

GENERAL NOTES

- 1. CONTRACTOR SHALL GUARANTEE THE INSTALLATION WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION.
2. EXISTING CONDITIONS SHOWN ARE BASED ON AERIAL PHOTOGRAPHS AND SITE INVESTIGATIONS.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, CITY OF MILTON PUBLIC WORKS MANUAL AND SANTA ROSA COUNTY REQUIREMENTS.
...
49. CONTRACTOR TO PROVIDE A PRE-CONSTRUCTION VIDEO BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL ALSO PROVIDE A POST-CONSTRUCTION VIDEO WITH REQUEST FOR FINAL PAYMENT.

GENERAL NOTES (CONTINUED)

- 50. ALL NEW STRIPING TO BE THERMOPLASTIC PER SECTION 11 OF THE FDOT STANDARD TO ROAD AND BRIDGE CONSTRUCTION JANUARY 2018 EDITION.
51. REQUIRED DEMOLITION SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND STRUCTURES, WHICH ARE NOT IN SERVICE AS NECESSARY FOR THE INSTALLATION OF PROPOSED IMPROVEMENTS.
...
53. CONTRACTOR SHALL BE RESPONSIBLE FOR STRUCTURAL DAMAGE FROM VIBRATION RELATED TO COMPACTION EFFORTS. COMPACTION METHOD AND LEVELS OF ENERGY APPLICATION SHALL BE SELECTED TO PREVENT DAMAGE TO ADJACENT STRUCTURES.

UTILITY NOTES

- 1. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR UNDERSTANDS THAT LOCATIONS OF UTILITIES DEPICTED ON THE PLANS ARE APPROXIMATE, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK IN EACH AREA.
2. CONTRACTOR SHALL NOTIFY SUNSHINE STATE ONE CALL 72 HOURS PRIOR TO DIGGING IN THE RIGHT-OF-WAY, 1-800-432-4770 OR 811.
...
13. POTABLE WATER LINES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS. COORDINATE PRESSURE TESTS WITH CITY OF MILTON. CITY OF MILTON TO WITNESS TEST.

MAINTENANCE OF TRAFFIC

- 1. NO WORK SHALL BE PERFORMED IN THE RIGHT-OF-WAY UNTIL THE PROPER MAINTENANCE OF TRAFFIC IS IN PLACE ACCORDING TO THE APPROPRIATE FDOT 600 SERIES INDEX. A CERTIFIED WORKSITE TRAFFIC SUPERVISOR SHALL SET UP AND MAINTAIN THE MAINTENANCE OF TRAFFIC.
2. THE CONTRACTOR SHALL MAINTAIN AT LEAST TEN FEET OPEN AT ALL TIMES. THE CONTRACTOR SHALL RESTORE THE ROADWAY TO TWO OPEN LANES AT THE END OF EACH WORKDAY.
...
4. CONTRACTOR TO COORDINATE TEMPORARY CLOSURE OF DRIVEWAYS WITH RESIDENTS AND BUSINESS OWNERS. IN NO CASE SHALL A DRIVEWAY BE LEFT INACCESSIBLE FOR A PERIOD EXCEEDING 24-HOURS. THIS SHALL OCCUR ONLY DURING FORMING AND POURING OF FINAL DRIVEWAY CONNECTION. AT ALL OTHER TIMES MAINTAIN AGGREGATE STABILIZED CONNECTION.

DEMOLITION NOTES

- 1. EXISTING VALVE BOXES LOCATED WITHIN THE PAVEMENT ON A LINE THAT IS TO BE ABANDONED SHALL HAVE THE LID REMOVED AND THE BOX FILLED WITH CONCRETE SO THAT THE TOP OF THE CONCRETE IS FLUSH WITH THE EXISTING PAVEMENT.
2. EXISTING VALVE BOXES LOCATED OFF THE PAVEMENT ON A LINE THAT IS TO BE ABANDONED SHALL BE COMPLETELY REMOVED AND THE HOLE SHALL BE BACKFILLED WITH CLEAN SELECT FILL.
...
4. NO MAIN SHALL BE ABANDONED UNTIL ALL SERVICES HAVE BEEN TRANSFERRED TO THE NEW MAIN. NO SERVICE SHALL BE TRANSFERRED UNTIL THE NEW MAIN HAS BEEN DISINFECTED, PRESSURE TESTED AND CLEARED BY CITY OF MILTON. COORDINATE SHUT-DOWN WITH CITY OF MILTON.

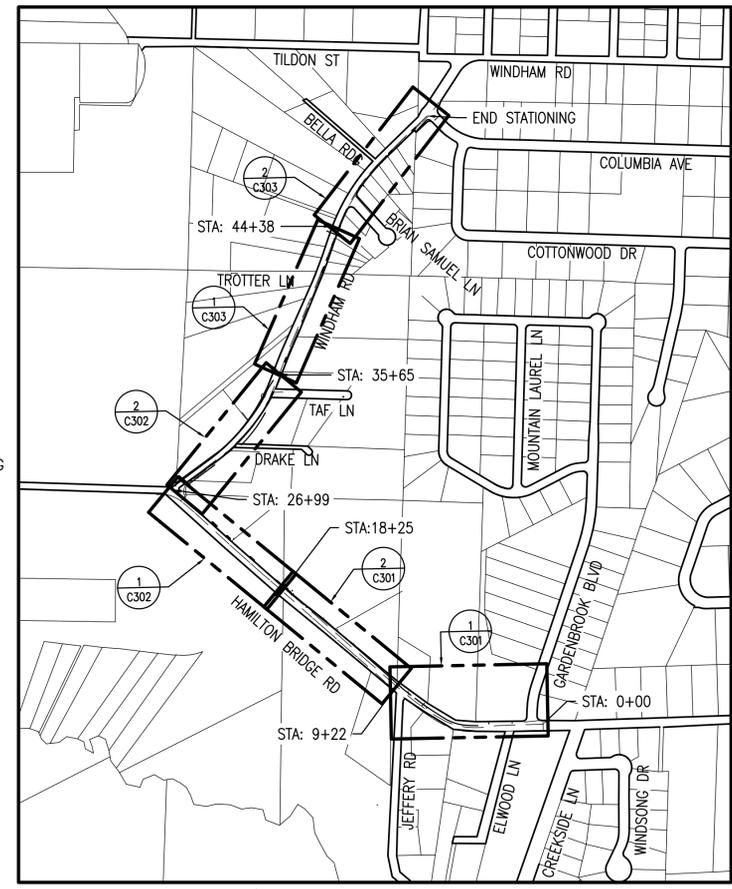
WATER SERVICE RENEWALS

- 1. CHECK EACH METER IN THE PROJECT AREA AND MATCH METER TO CORRESPONDING RESIDENCE.
2. CONTRACTOR WILL MAKE ARRANGEMENTS AND NOTIFY CITY OF MILTON CUSTOMERS IN PROJECT AREA OF THE TIME WHICH THEIR SERVICE WILL BE TRANSFERRED.
3. THE WATER SERVICE RENEWAL WILL BE COMPLETE WHEN THE CONTRACTOR HAS REPLACED THE OLD WATER SERVICE WITH THE NEW MATERIAL FROM THE NEW WATERMAIN TO THE INLET SIDE OF THE CUSTOMER'S WATER METER.
...
14. #12 TRACER WIRE WILL BE USED OVER SERVICE LINES AND CONNECTED TO THE MAIN TRACER. TRACER WIRE INSULATION SHALL BE BLUE IN COLOR.

UTILITY COMPANIES

- TELEPHONE - AT&T, INC., 605 WEST GARDEN STREET, PENSACOLA, FLORIDA 32501; ROB ST. PIERRE (850) 436-1701
ELECTRIC - GULF POWER COMPANY, 9220 PINE FOREST ROAD, PENSACOLA, FLORIDA 32534; CHASE HARDEMAN (850) 429-2455
SANITARY SEWER/WATER - CITY OF MILTON, 6738 DIXON STREET, MILTON, FLORIDA 32570; JOE COOK (850) 983-5419
NATURAL GAS - CITY OF MILTON, 6738 DIXON STREET, MILTON, FLORIDA 32570; (850) 983-5410
CABLE - MEDIACOM; TOMMY GREEN (850) 393-8742

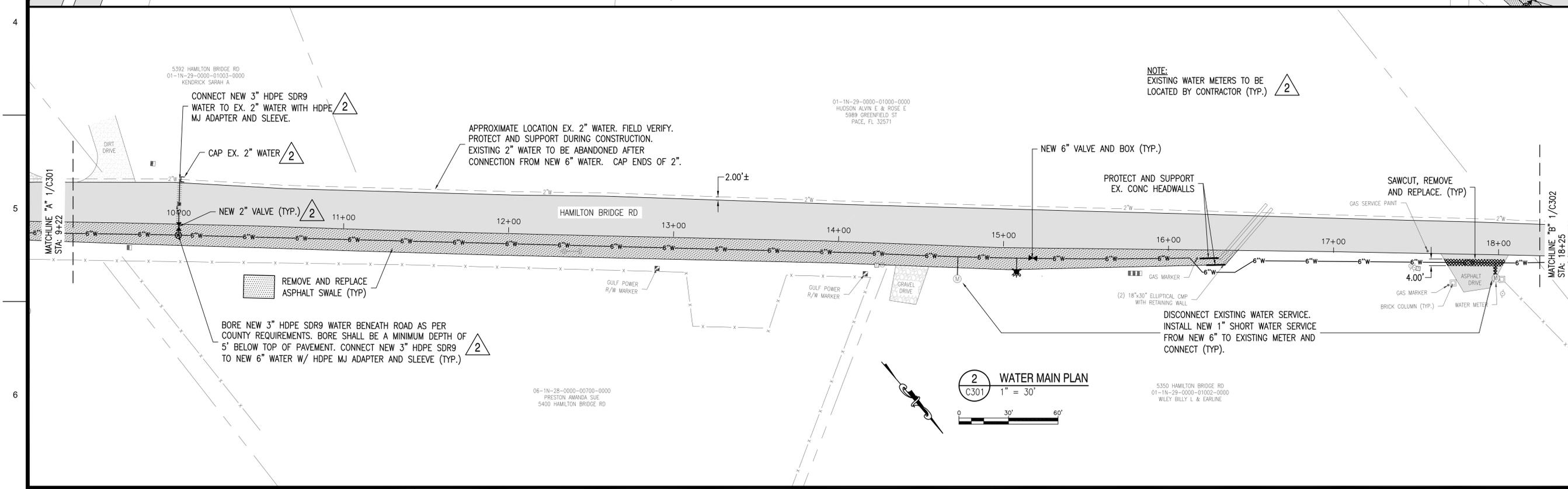
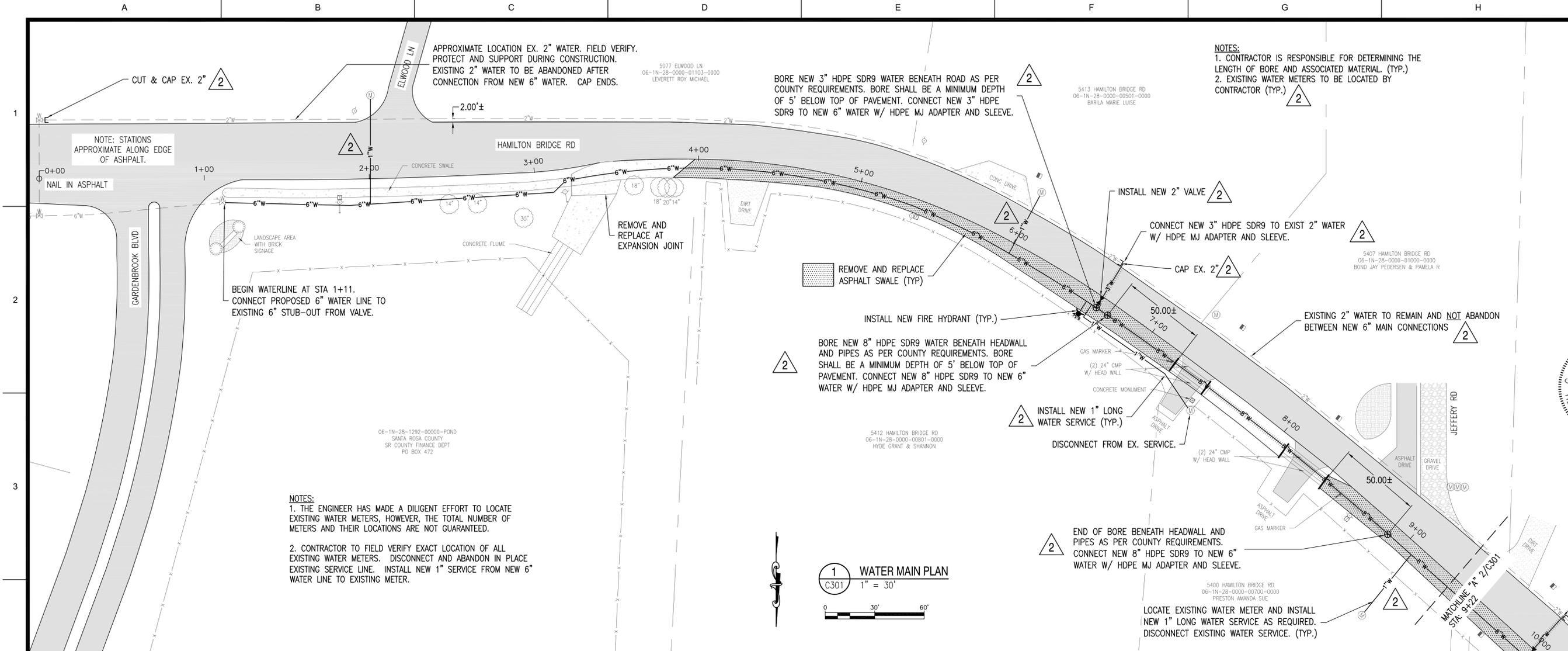
LEGEND: ASPHALT, CONCRETE, GRAVEL, PINE TREE, OAK TREE, PALM TREE, NEW WATER VALVE, NEW FIRE HYDRANT, EX. WATER METER, EX. WATER VALVE, EX. R.O.W. MARKER, EX. CONC MONUMENT, BEGIN/END BORE, EX. SIGN, EX. POWER POLE, EX. TELEPHONE EQUIPMENT, EX. GUY WIRE, EX. MAILBOX, EX. GAS VALVE, EX. GAS MARKER, CUT & CAP, NEW 1" WATER LINE, NEW 3" WATER LINE, NEW 6" WATER LINE, NEW 8" WATER LINE, EX. CHAIN LINK FENCE, EX. WOOD FENCE, EX. HOGWIRE FENCE



1 SHEET KEY PLAN 1" = 500'

REVISIONS table, PROFESSIONAL ENGINEER seal for Kenneth C. Horne, License No. 40149, Kenneth Home & Associates, Inc. CIVIL ENGINEERS, PO BOX 10669, PENSACOLA, FLORIDA 32524, 7201 N. 9TH AVENUE, SUITE 6, PENSACOLA, FLORIDA 32504, (850) 471-9005 info@kth-a.com FAX (850) 471-0093, FL CERTIFICATE OF AUTHORIZATION NO. 8288, HAMILTON BRIDGE ROAD WATER MAIN UPGRADE GENERAL NOTES AND KEY PLAN ESCAMBIA COUNTY FLORIDA, PROJECT NO: 2018-17 C002, SHEET: 2 OF 8

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REVISIONS	NO.	DATE	ADDITION #2
1	2	3/6/2020	

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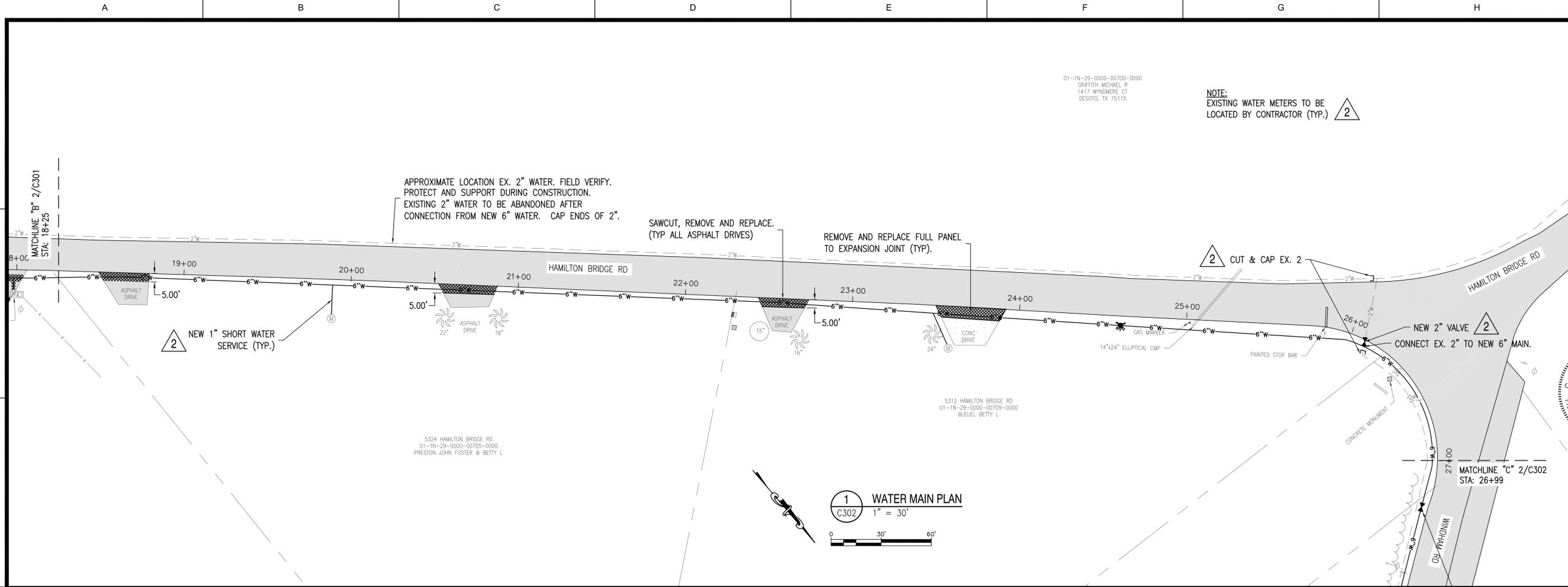
Kenneth Horne & Associates, Inc.
 CIVIL ENGINEERS
 PO BOX 10669, PENSACOLA, FLORIDA 32524
 7201 N. 9TH AVENUE, SUITE 6, PENSACOLA, FLORIDA 32504
 (850) 471-9005 info@kha.com FAX (850) 471-0093
 FL CERTIFICATE OF AUTHORIZATION NO. 8288

HAMILTON BRIDGE ROAD WATER MAIN UPGRADE WATER MAIN PLAN
 FLORIDA
 ESCAMBIA COUNTY

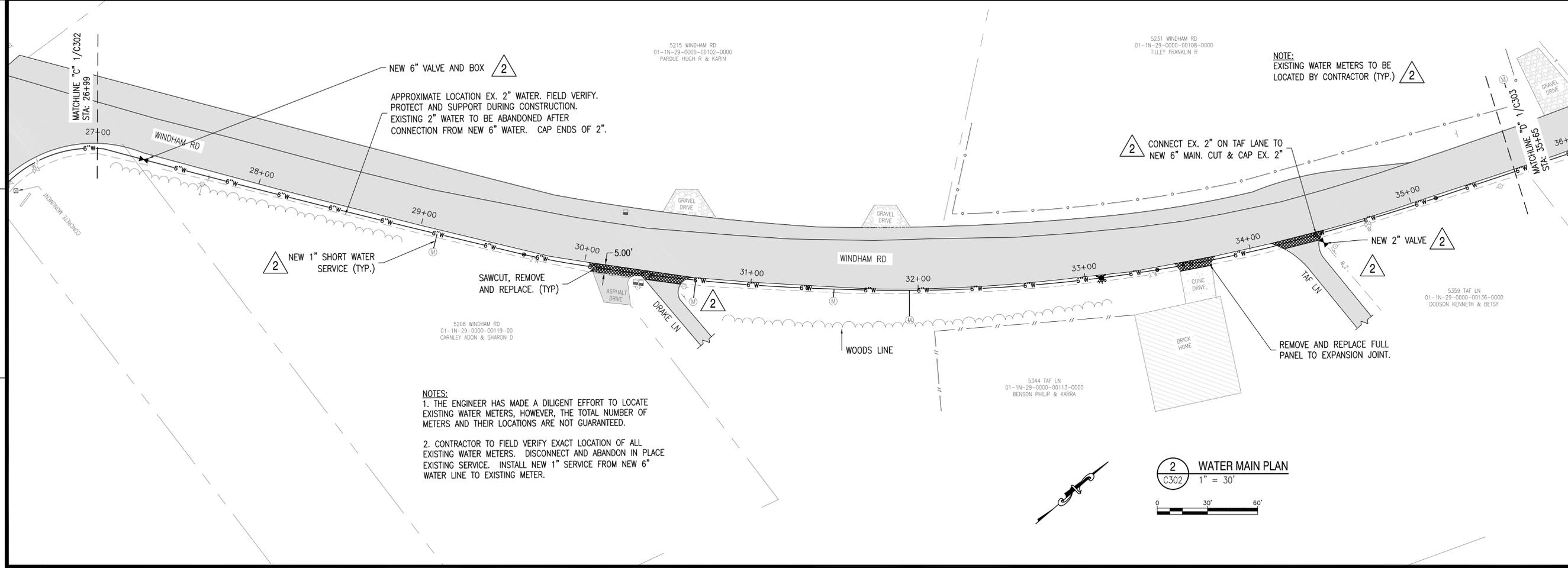
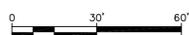
DRAWN BY:	AHH
DESIGNED BY:	GMS
CHECKED BY:	KCH
DATE:	2/4/2020
SCALE:	1" = 30'
NOT FOR CONSTRUCTION	
BY:	

PROJECT NO: 2018-17
 C301
 SHEET: 3 OF 8

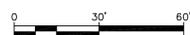
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1 WATER MAIN PLAN
C302 1" = 30'



2 WATER MAIN PLAN
C302 1" = 30'



NOTES:
1. THE ENGINEER HAS MADE A DILIGENT EFFORT TO LOCATE EXISTING WATER METERS, HOWEVER, THE TOTAL NUMBER OF METERS AND THEIR LOCATIONS ARE NOT GUARANTEED.
2. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING WATER METERS. DISCONNECT AND ABANDON IN PLACE EXISTING SERVICE. INSTALL NEW 1" SERVICE FROM NEW 6" WATER LINE TO EXISTING METER.

NOTE:
EXISTING WATER METERS TO BE LOCATED BY CONTRACTOR (TYP.)

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EXISTING WATER METERS TO BE LOCATED BY CONTRACTOR (TYP.)

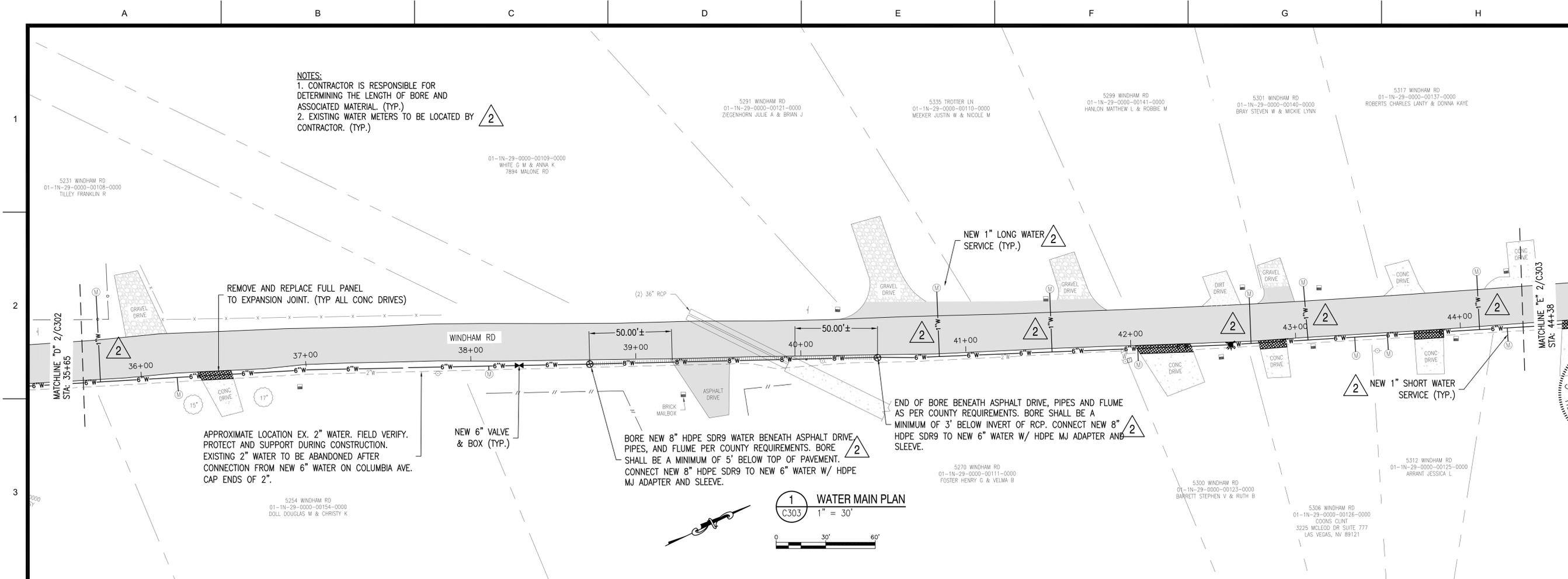
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1	3/6/2020	ADDED
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CIVIL ENGINEERS
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7201 N. 9TH AVENUE, SUITE 6, PENSACOLA, FLORIDA 32504
(850) 471-9005 info@kh-a.com FAX (850) 471-0093
FL CERTIFICATE OF AUTHORIZATION NO. 8288

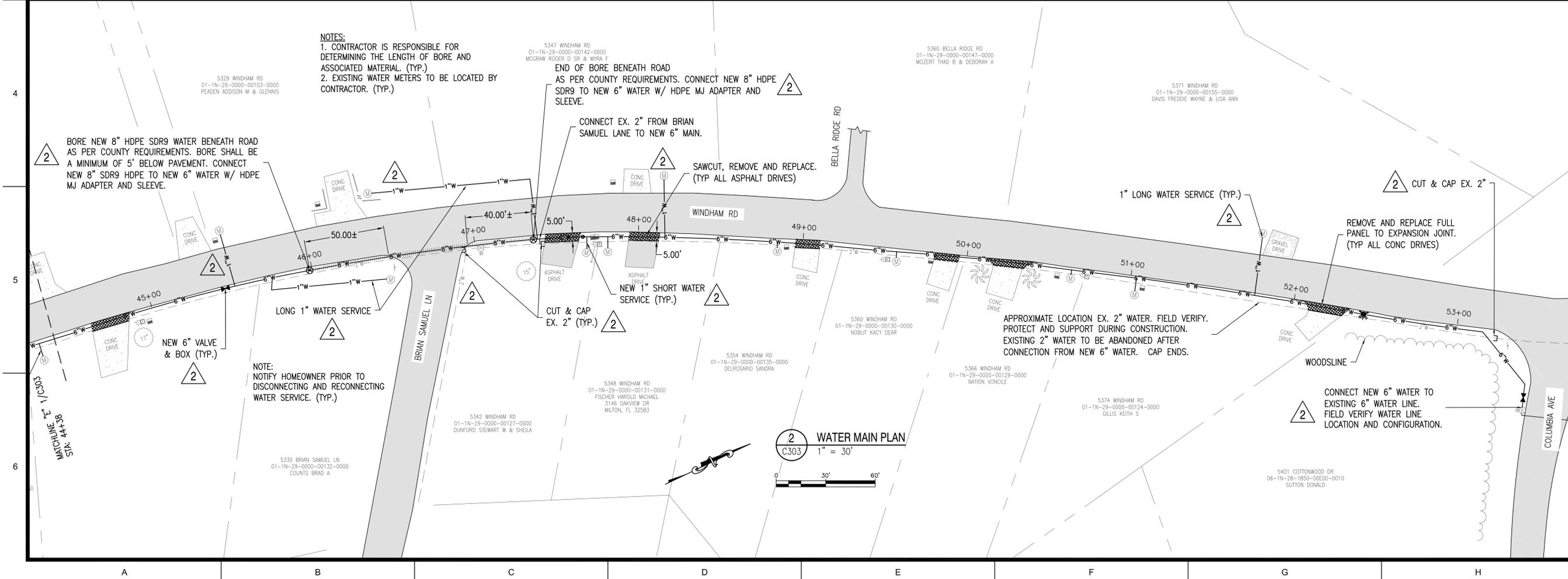
**HAMILTON BRIDGE ROAD
WATER MAIN UPGRADE
WATER MAIN PLAN**
FLORIDA
ESCAMBIA COUNTY

PROJECT NO:	2018-17
SHEET:	4 OF 8

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1 WATER MAIN PLAN
C303
1" = 30'



2 WATER MAIN PLAN
C303
1" = 30'



NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LENGTH OF BORE AND ASSOCIATED MATERIAL. (TYP.)
2. EXISTING WATER METERS TO BE LOCATED BY CONTRACTOR. (TYP.)

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1. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LENGTH OF BORE AND ASSOCIATED MATERIAL. (TYP.)
2. EXISTING WATER METERS TO BE LOCATED BY CONTRACTOR. (TYP.)

NO.	DATE	REVISIONS
1	3/6/2020	ADDEDUM #2

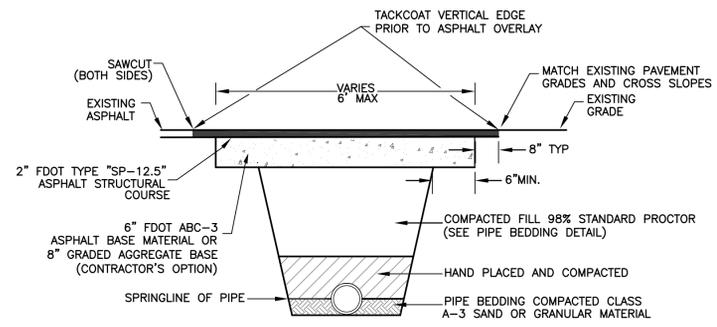


Kenneth Horne & Associates, Inc.
CIVIL ENGINEERS
PO BOX 10669, PENSACOLA, FLORIDA 32524
7201 N. 9TH AVENUE, SUITE 6, PENSACOLA, FLORIDA 32504
(850) 471-9005 info@kh-a.com FAX (850) 471-0093
FL CERTIFICATE OF AUTHORIZATION NO. 8288

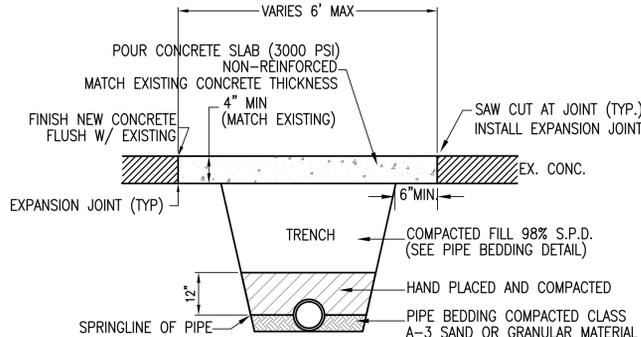
**HAMILTON BRIDGE ROAD
WATER MAIN UPGRADE
WATER MAIN PLAN**
FLORIDA
ESCAMBIA COUNTY

DRAWN BY:	AHH
DESIGNED BY:	GNS
CHECKED BY:	KCH
DATE:	2/4/2020
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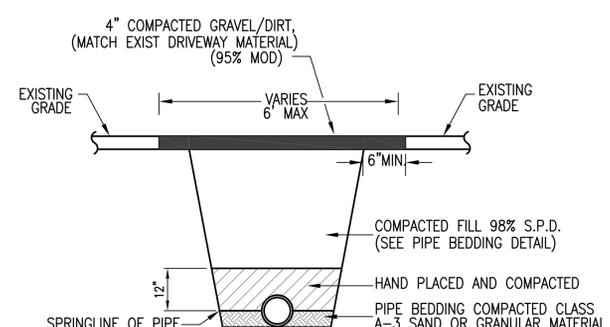
PROJECT NO: 2018-17
C303
SHEET: 5 OF 8



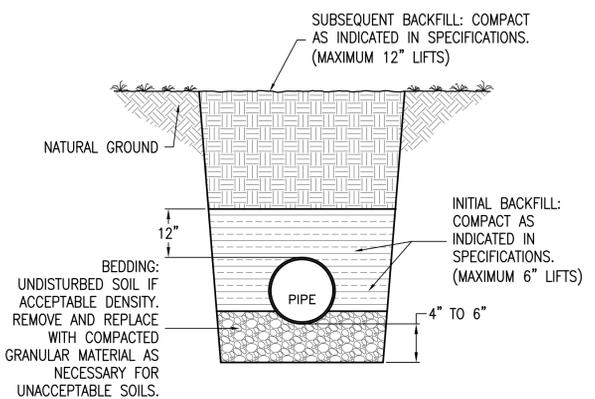
A ASPHALT ROADWAY CUT & PATCH DETAIL
C501 N.T.S.



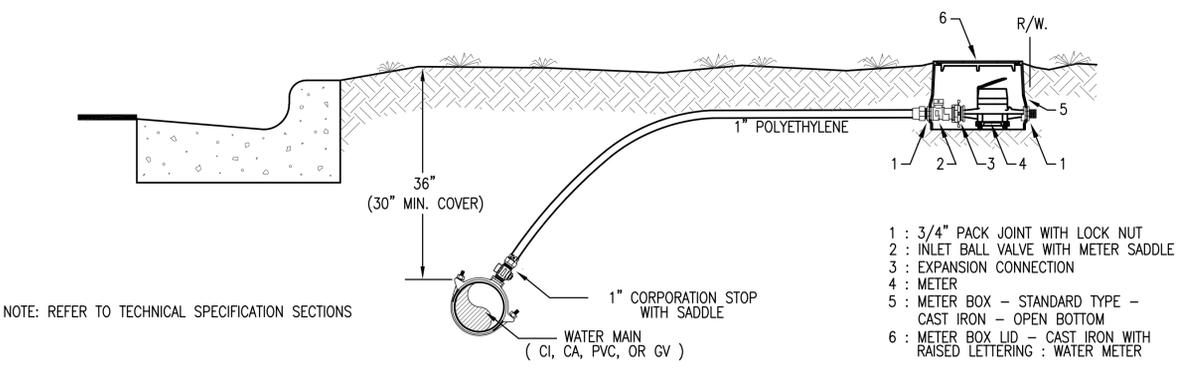
B CONCRETE DRIVEWAY CUT & PATCH DETAIL
C501 N.T.S.



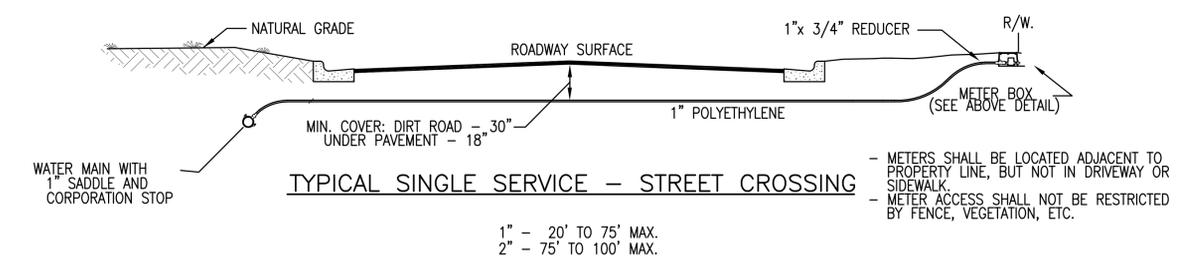
C GRAVEL/DIRT DRIVEWAY CUT & PATCH DETAIL
C501 N.T.S.



D PIPE BEDDING DETAIL
C501 N.T.S.



TYPICAL SINGLE SERVICE
1\"/>



TYPICAL SINGLE SERVICE - STREET CROSSING

E TYPICAL WATER SERVICE 5/8\"/>

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH RULE 62-555.314, F.A.C.

Other Pipe	Horizontal Separation	Crossings (1)	Joint Spacing @ Crossings (Full Joint Centered)
Storm Sewer, Stormwater Force Main, Reclaimed Water (2)	Water Main 3 ft. minimum	Water Main 12 inches is the minimum, except for storm sewers, then 6 inches is the minimum and 12 inches is preferred	Alternate 3 ft. minimum
Vacuum Sanitary Sewer	Water Main 10 ft. preferred 3 ft. minimum	Water Main 12 inches preferred 6 inches minimum	Alternate 3 ft. minimum
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water (4)	Water Main 10 ft. preferred 6 ft. minimum (3)	Water Main 12 inches is the minimum, except for gravity sewer, then 6 inches is the minimum and 12 inches is preferred	Alternate 6 ft. minimum
On-Site Sewage Treatment & Disposal System	10 ft. minimum	---	---

- (1) Water main should cross above other pipe. When water main must be below other pipe, the minimum separation is 12 inches.
- (2) Reclaimed water regulated under Part III of Chapter 62-610, F.A.C.
- (3) 3 ft. for gravity sanitary sewer where the bottom of the water main is laid at least 6 inches above the top of the gravity sanitary sewer.
- (4) Reclaimed water not regulated under Part III of Chapter 62-610, F.A.C.

EXCEPTIONS TO MINIMUM SEPARATION REQUIREMENTS

Where it is not technically feasible or economically sensible to comply with the requirements of 62-555.314(1) or (2), F.A.C., the Department shall allow exceptions to these requirements if suppliers of water or construction permit applicants provide technical or economic justification for each exception and provide alternative construction features that afford a similar level of reliability and public health protection.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH 62-555.314(5)(a), F.A.C.

Other Pipe	Horizontal Separation	Joint Spacing @ Crossings (Full Joint Centered)
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water, Vacuum Sanitary Sewer, Storm Sewer, Stormwater Force Main	Water Main less than required but not less than 3 feet	Water Main less than required

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:

- 1. Use of pressure-rated pipe conforming to the American Water Works Association standards incorporated into Rule 62-555.330, F.A.C., for the other pipeline if it is a gravity- or vacuum-type pipeline;
- 2. Use of welded, fused, or otherwise restrained joints for either the water main or the other pipeline; or
- 3. Use of watertight casing pipe or concrete encasement at least four inches thick for either the water main or the other pipeline.

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH 62-555.314(5)(b), F.A.C.

Other Pipe	Horizontal Separation	Crossings
Gravity or Pressure Sanitary Sewer, Sanitary Sewer Force Main, Reclaimed Water, Vacuum Sanitary Sewer, Storm Sewer, Stormwater Force Main	Water Main less than 3 feet	Water Main less than required

Where an underground water main is being laid less than three feet horizontally from another pipeline and where an underground water main is crossing another pipeline and is being laid less than the required minimum vertical distance from the other pipeline:

Use of pipe, or casing pipe, having high impact strength (i.e., having an impact strength at least equal to that of 0.25-inch-thick ductile iron pipe) or concrete encasement at least four inches thick for both the water main and for the other pipeline if it is new and is conveying wastewater or reclaimed water.

Disclaimer - This document is provided for your convenience only. Please refer to Rule 62-555.314, F.A.C., for additional construction requirements.

F FDEP SEPARATION REQUIREMENTS
C501 N.T.S.

REVISIONS

NO.	DATE	ADDENDUM #2
1	3/7/2020	
2		

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KENNETH C. HORNE
FL. P.E. 40149

Kenneth Horne & Associates, Inc.
CIVIL ENGINEERS

PO BOX 10669, PENSACOLA, FLORIDA 32524
7201 N. 9TH AVENUE, SUITE 6, PENSACOLA, FLORIDA 32504
(850) 471-9005 info@kh-a.com FAX (850) 471-0093

FL. CERTIFICATE OF AUTHORIZATION NO. 8288

HAMILTON BRIDGE ROAD WATER MAIN UPGRADE DETAILS

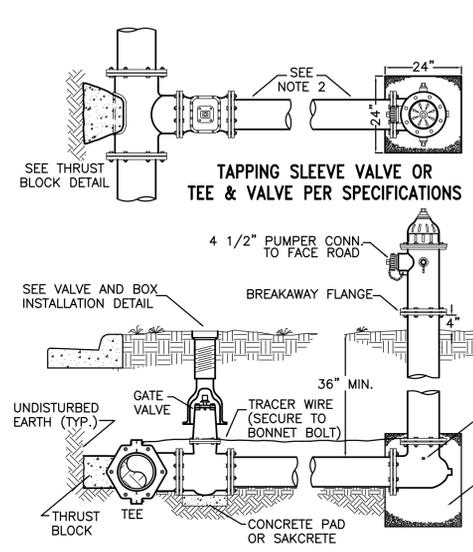
FLORIDA
ESCAMBIA COUNTY

PROJECT NO: 2018-17
C501

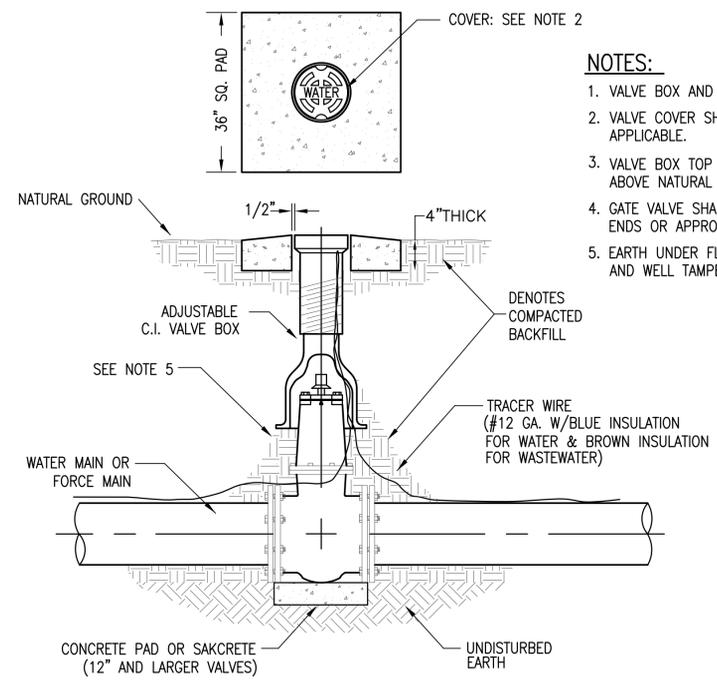
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CHECKED BY: KCH
DATE: 2/4/2020
SCALE: AS SHOWN
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BY: DATE:

SHEET: 6 OF 8

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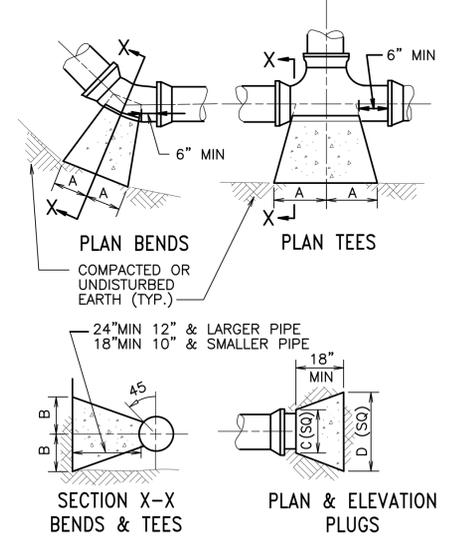
A TYPICAL FIRE HYDRANT INSTALLATION DETAIL
C502 N.T.S.



B TYPICAL VALVE & BOX INSTALLATION DETAIL
C502 N.T.S.

SIZE	1/4 BENDS		1/8 BENDS		1/16 BENDS		TEES			PLUGS	
	A	B	A	B	A	B	A	B	C	D	
6"	16"	10"	9"	10"	6"	8"	10"	12"	10"	21"	
8"	22"	13"	12"	13"	8"	10"	13"	16"	12"	29"	
10"	26"	17"	14"	17"	10"	13"	16"	20"	14"	36"	
12"	29"	21"	16"	21"	11"	16"	18"	24"	16"	41"	
14"	35"	24"	19"	24"	12"	20"	22"	27"	18"	48"	
16"	38"	27"	21"	27"	12"	24"	24"	30"	20"	54"	

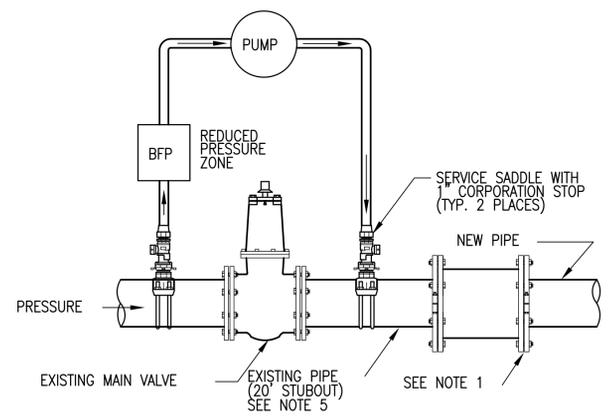
- NOTES:**
1. VALVE BOX AND BOOT SHALL BE CAST IRON.
 2. VALVE COVER SHALL BE MARKED "WATER" OR "SEWER" AS APPLICABLE.
 3. VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
 4. GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUAL.
 5. EARTH UNDER FLANGE OF VALVE BOX & COLLAR TO BE FIRM AND WELL TAMPED TO ENSURE AGAINST VALVE BOX SETTLING.



C THRUST BLOCK DETAIL
C502 N.T.S.

NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO THE CITY OF MILTON.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE EXISTING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. THE CITY OF MILTON INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
4. CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR FILLING, CHLORINATING AND TESTING PROCEDURES. CONTRACTOR SHALL PROVIDE SAMPLING TAPS AT THOSE LOCATIONS APPROVED BY THE THE CITY OF MILTON INSPECTOR. THE CITY OF MILTON SHALL COLLECT TEST SAMPLES.
5. IF 20' STUBOUT IS NOT PRESENT SPECIAL ARRANGEMENTS WILL HAVE TO BE MADE TO DEPRESSURIZE THE EXISTING MAIN TO MAKE CONNECTION TO THE EXISTING VALVE.

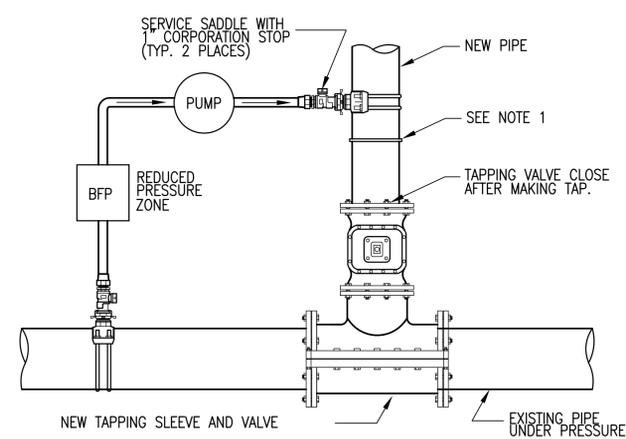


TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (EXISTING STUBOUT)

D TYPICAL DISINFESTION & CHLORINATION
C502 N.T.S.

NOTES:

1. NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO TAPPING VALVE. TAPPING VALVE IS TO REMAIN CLOSED.
2. THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH THE TAPPING VALVE WITH ALL HYDRANTS AND SERVICE LINES OPEN. THE CITY OF MILTON INSPECTOR SHALL BE THE ONLY PERSON ALLOWED TO OPERATE THE VALVE AND SHALL BE PRESENT DURING FLUSHING OPERATION. ONCE FLUSHING IS COMPLETE THE INSPECTOR SHALL CLOSE THE VALVE.
3. ONCE SATISFACTORY BACTERIOLOGICAL SAMPLES ARE OBTAINED THE CONTRACTOR SHALL CLOSE BOTH CORPORATION STOPS AND REMOVE SERVICE TUBING, PUMP AND BACKFLOW PREVENTER; CAP CORPORATION STOPS WITH BRASS CAPS.
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TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (TAPPING SLEEVE AND VALVE)

REVISIONS	NO.	DATE	ADDENDUM #2
	1		
	2	3/6/2020	

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FLORIDA
ESCAMBIA COUNTY

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DATE:	2/4/2020
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BY:	

PROJECT NO: 2018-17
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SHEET: 7 OF 8