

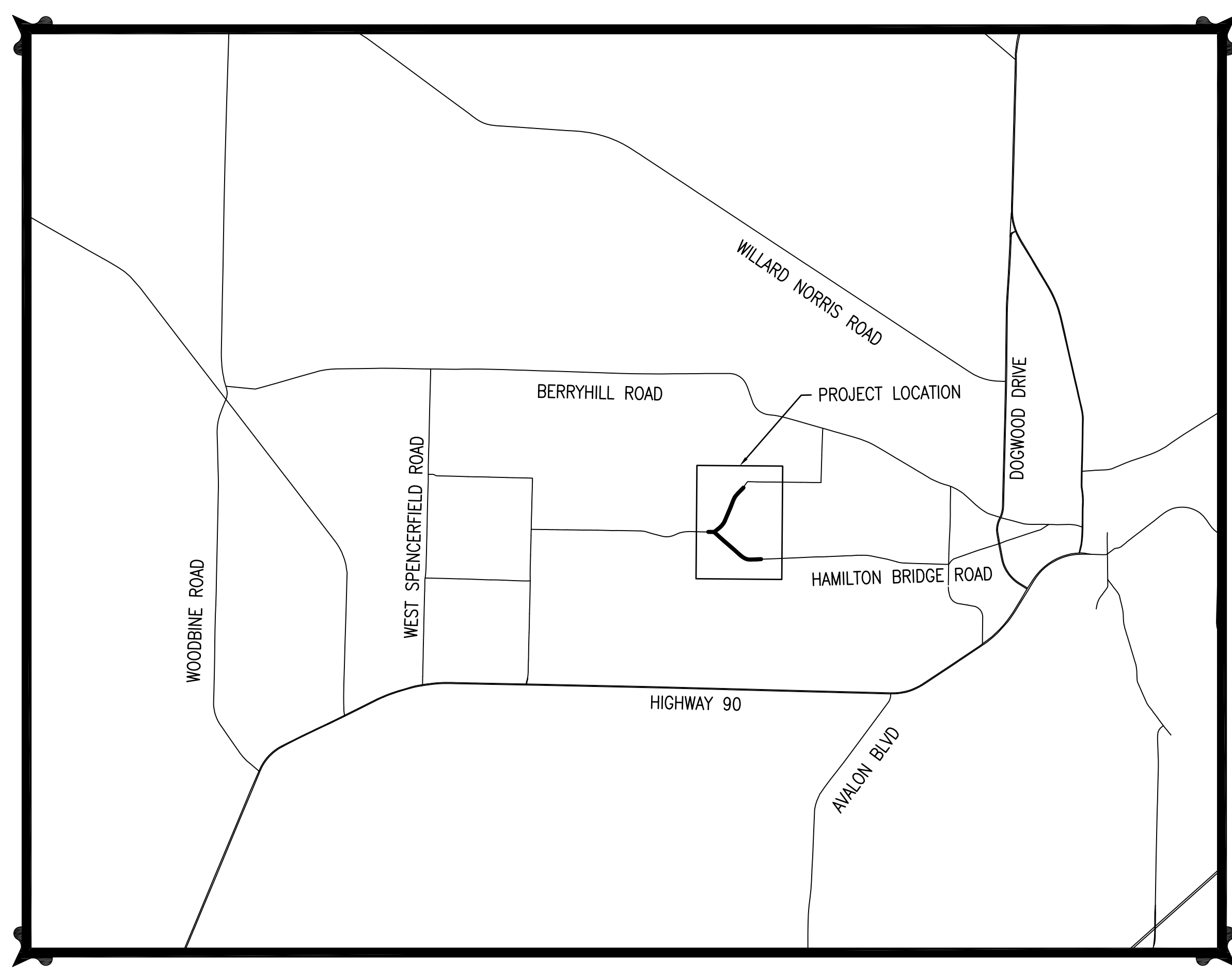
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CONSTRUCTION PLANS FOR HAMILTON BRIDGE ROAD

WATER SYSTEM IMPROVEMENTS MARCH 2019

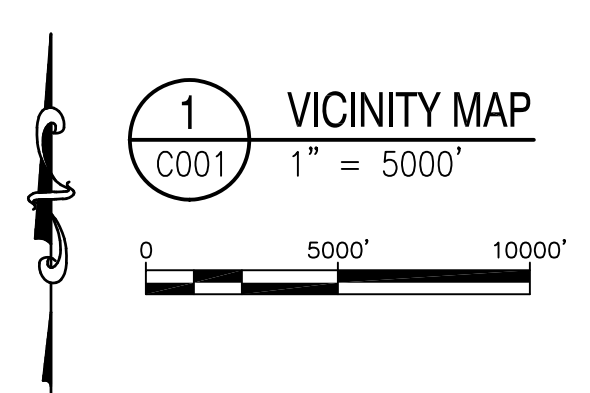
MAYOR: HEATHER LINDSAY
MILTON CITY COUNCIL
 WARD 1: PEGGI SMITH
 HEATHER HATHAWAY
 WARD 2: MARY ELLEN JOHNSON
 SHANNON RICE
 WARD 3: JEFF SNOW
 GEORGE JORDAN
 WARD 4: SHARON HOLLEY
 CASEY POWELL

PREPARED BY:
 **Kenneth Horne & Associates, Inc.**
 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. ~~8268~~



SHEET INDEX

C001	COVER SHEET
C002	GENERAL NOTES
C301	WATER MAIN PLAN
C302	WATER MAIN PLAN
C303	WATER MAIN PLAN
C501	DETAILS
C502	DETAILS
C601	EROSION CONTROL DETAILS



NO.	DATE	REVISIONS						
 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. 8268								
HAMILTON BRIDGE ROAD WATER MAIN UPGRADE COVER SHEET ESCAMBIA COUNTY FLORIDA								
DRAWN BY: AHH	DESIGNED BY: GMS	CHECKED BY: KCH	DATE: 2/4/2020	SCALE: 1" = 5000'	NOT FOR CONSTRUCTION			BY: DATE:
PROJECT NO: 2018-17								
C001								
SHEET: 1 OF 8								

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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

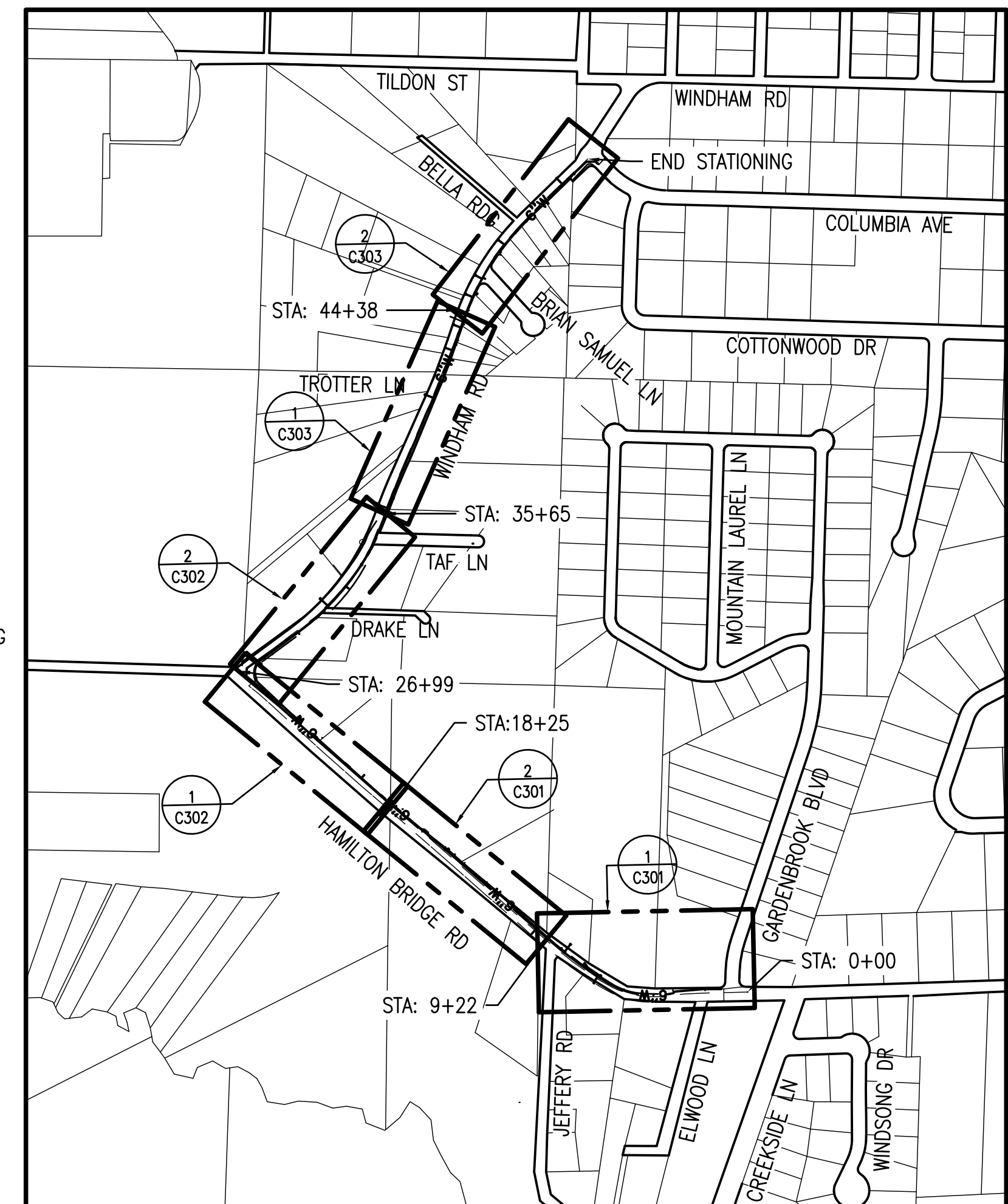
- 1. CHECK EACH METER IN THE PROJECT AREA AND MATCH METER TO CORRESPONDING RESIDENCE.
2. CONTRACTOR WILL MAKE ARRANGEMENTS AND NOTIFY CITY OF MILTON CUSTOMERS IN PROJECT AREA OF THE TIME WHICH THEIR SERVICE WILL BE TRANSFERRED.
3. THE WATER SERVICE RENEWAL WILL BE COMPLETE WHEN THE CONTRACTOR HAS REPLACED 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:

Legend symbols for 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, EX. SIGN, EX. POWER POLE, EX. TELEPHONE EQUIPMENT, EX. GUY WIRE, EX. MAILBOX, EX. GAS VALVE, EX. GAS MARKER, NEW 6" WATER LINE, EX. 2" WATER LINE, EX. CHAIN LINK FENCE, EX. WOOD FENCE, EX. HOGWIRE FENCE.

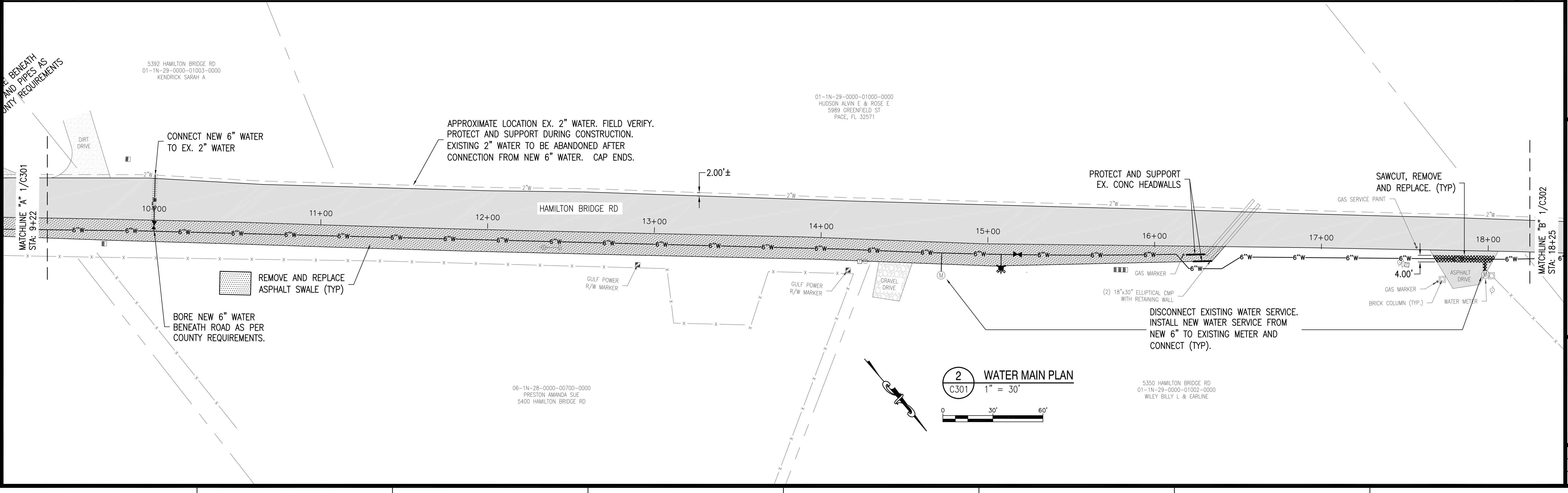
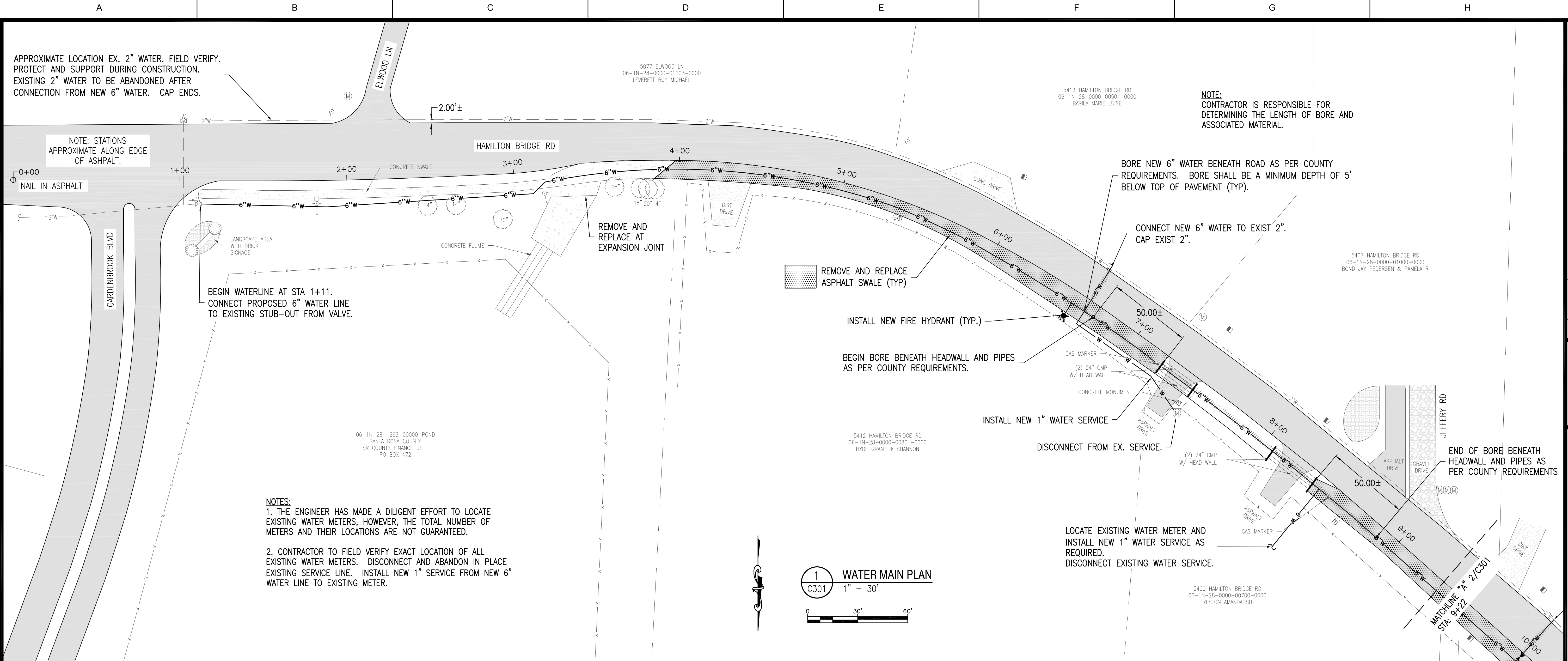


1 SHEET KEY PLAN
1" = 500'
Scale bar showing 0, 500, 1000 feet.

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Project information block including: REVISIONS table, KENNETH C. HORNE & ASSOCIATES, INC. logo and address (7201 N. 9TH AVENUE, SUITE 6, PENSACOLA, FLORIDA 32504), CIVIL ENGINEERS, HAMILTON BRIDGE ROAD WATER MAIN UPGRADE GENERAL NOTES AND KEY PLAN, ESCAMBIA COUNTY FLORIDA, PROJECT NO: 2018-17, SHEET: 2 OF 8.

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REVISIONS	
NO.	DATE

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KENNETH C. HORNE
FL. PE. 40149

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FL. CERTIFICATE OF AUTHORIZATION NO. 8288

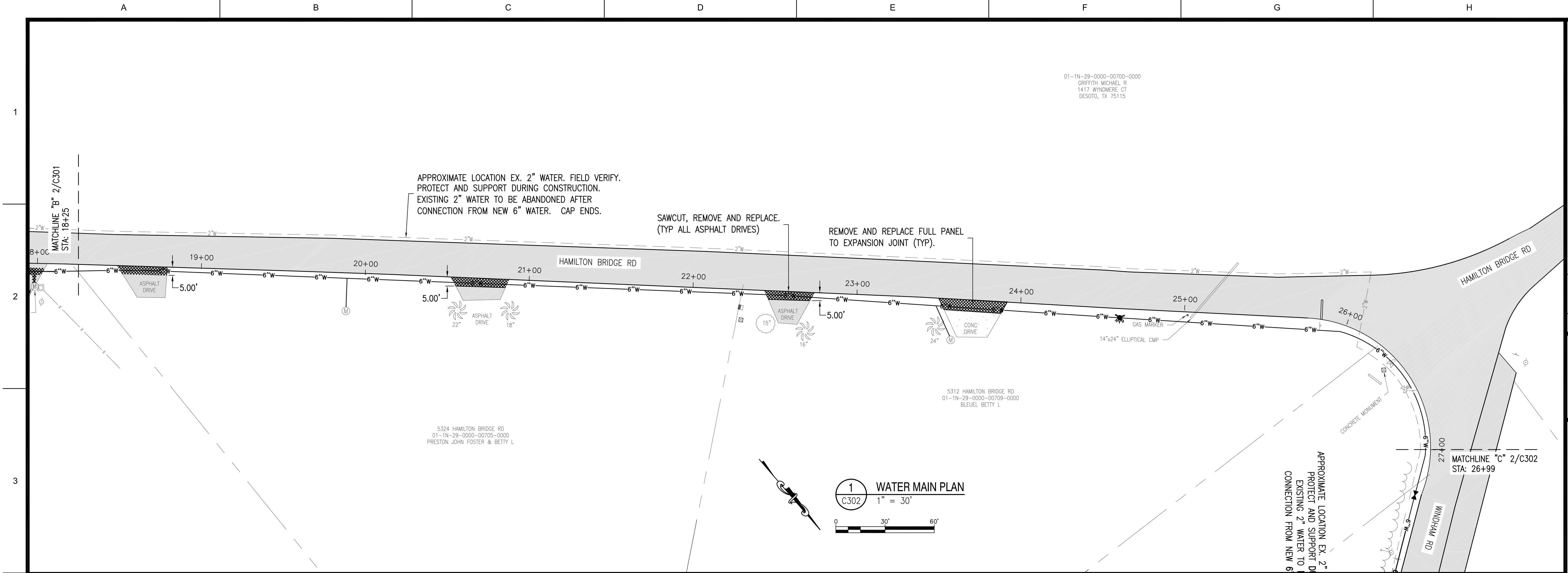
**HAMILTON BRIDGE ROAD
WATER MAIN UPGRADE
WATER MAIN PLAN**

FLORIDA
ESCAMBIA COUNTY

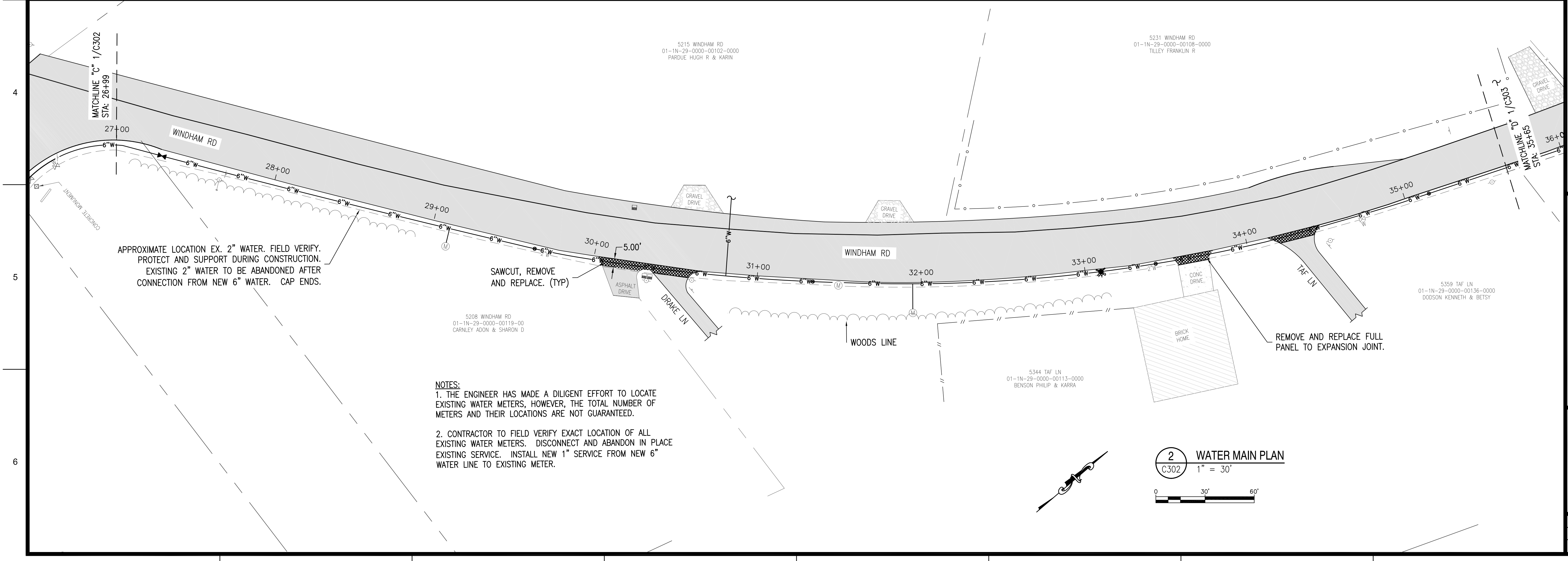
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DESIGNED BY:	GMS
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BY:	
DATE:	

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

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1 WATER MAIN PLAN
C302 1" = 30'

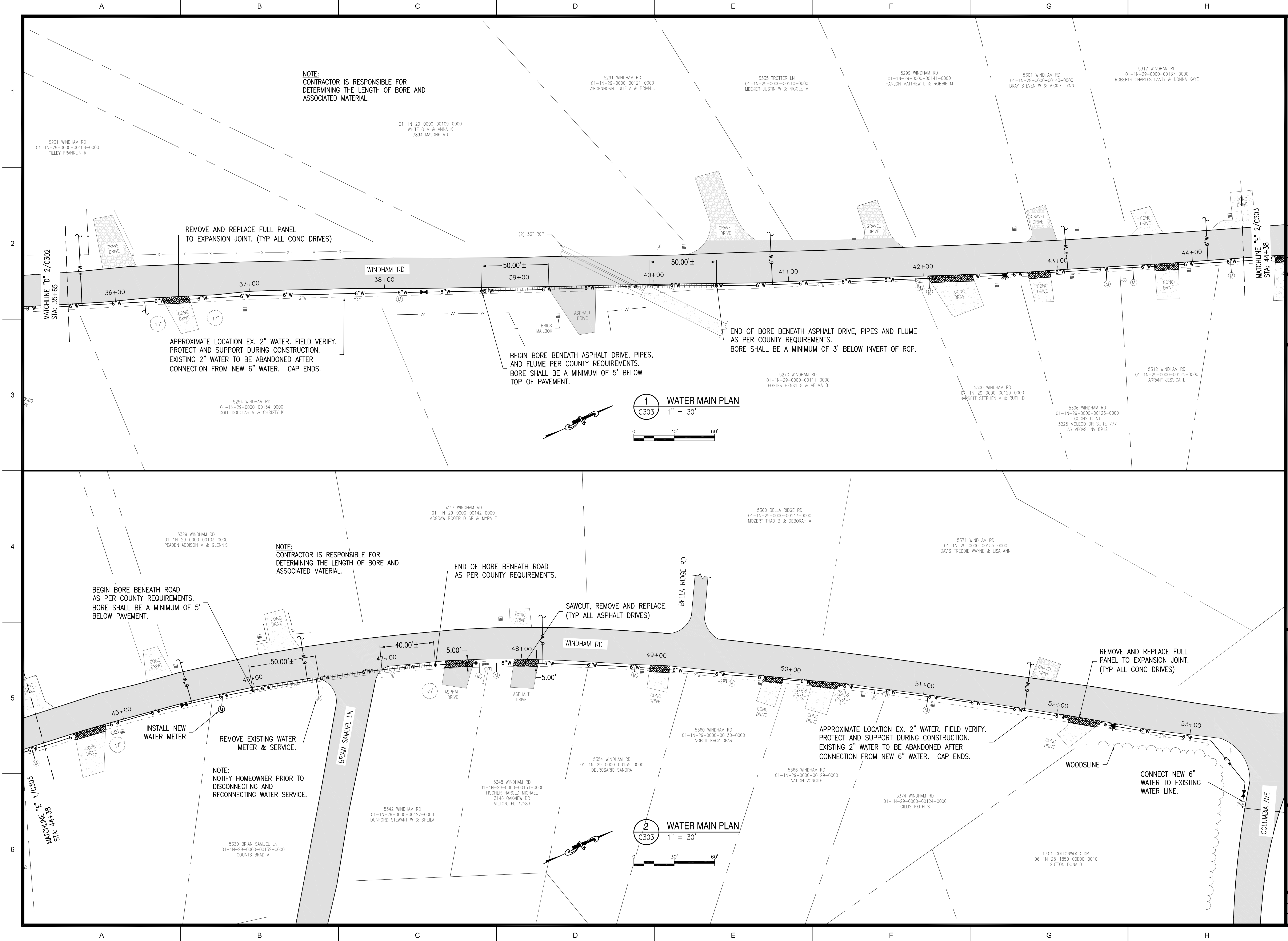


2 WATER MAIN PLAN
C302 1" = 30'

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.

REVISIONS	
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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@kh-a.com FAX (850) 471-0093 FL. CERTIFICATE OF AUTHORIZATION NO. 8288	
HAMILTON BRIDGE ROAD WATER MAIN UPGRADE WATER MAIN PLAN ESCAMBIA COUNTY FLORIDA	
DRAWN BY: AHH DESIGNED BY: GMS CHECKED BY: KCH DATE: 2/4/2020 SCALE: 1" = 30' NOT FOR CONSTRUCTION BY: DATE:	PROJECT NO: 2018-17 C302 SHEET: 4 OF 8

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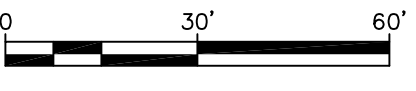
NOTE:
CONTRACTOR IS RESPONSIBLE FOR
DETERMINING THE LENGTH OF BORE AND
ASSOCIATED MATERIAL.

APPROXIMATE LOCATION EX. 2" WATER. FIELD VERIFY.
PROTECT AND SUPPORT DURING CONSTRUCTION.
EXISTING 2" WATER TO BE ABANDONED AFTER
CONNECTION FROM NEW 6" WATER. CAP ENDS.

BEGIN BORE BENEATH ASPHALT DRIVE, PIPES,
AND FLUME PER COUNTY REQUIREMENTS.
BORE SHALL BE A MINIMUM OF 5' BELOW
TOP OF PAVEMENT.

END OF BORE BENEATH ASPHALT DRIVE, PIPES AND FLUME
AS PER COUNTY REQUIREMENTS.
BORE SHALL BE A MINIMUM OF 3' BELOW INVERT OF RCP.

1 WATER MAIN PLAN
C303
1" = 30'



NOTE:
CONTRACTOR IS RESPONSIBLE FOR
DETERMINING THE LENGTH OF BORE AND
ASSOCIATED MATERIAL.

BEGIN BORE BENEATH ROAD
AS PER COUNTY REQUIREMENTS.
BORE SHALL BE A MINIMUM OF 5'
BELOW PAVEMENT.

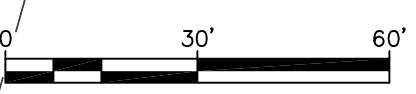
END OF BORE BENEATH ROAD
AS PER COUNTY REQUIREMENTS.

SAWCUT, REMOVE AND REPLACE.
(TYP ALL ASPHALT DRIVES)

NOTE:
NOTIFY HOMEOWNER PRIOR TO
DISCONNECTING AND
RECONNECTING WATER SERVICE.

APPROXIMATE LOCATION EX. 2" WATER. FIELD VERIFY.
PROTECT AND SUPPORT DURING CONSTRUCTION.
EXISTING 2" WATER TO BE ABANDONED AFTER
CONNECTION FROM NEW 6" WATER. CAP ENDS.

2 WATER MAIN PLAN
C303
1" = 30'



NO.	DATE	REVISIONS

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FL. CERTIFICATE OF AUTHORIZATION NO. 8288

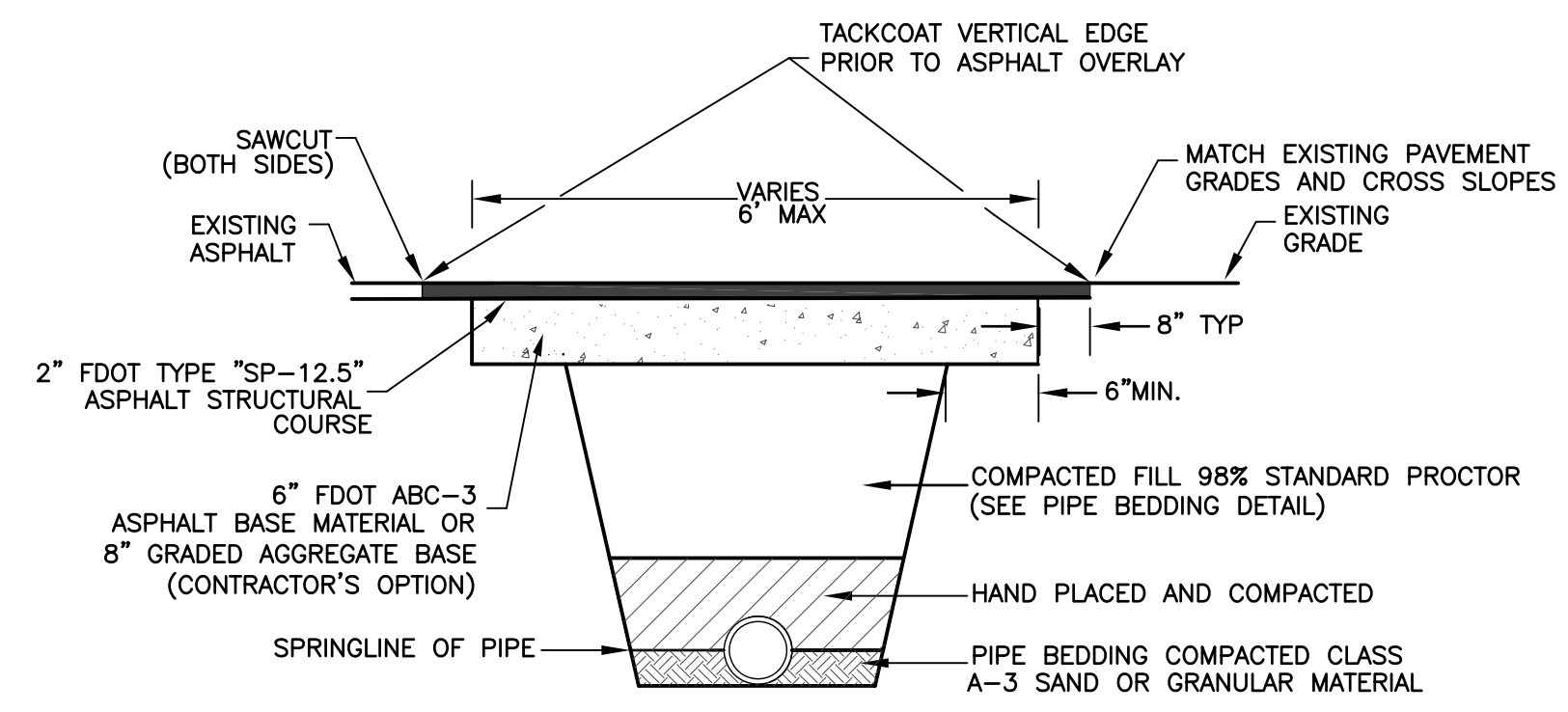
**HAMILTON BRIDGE ROAD
WATER MAIN UPGRADE
WATER MAIN PLAN**

FLORIDA
ESCAMBIA COUNTY

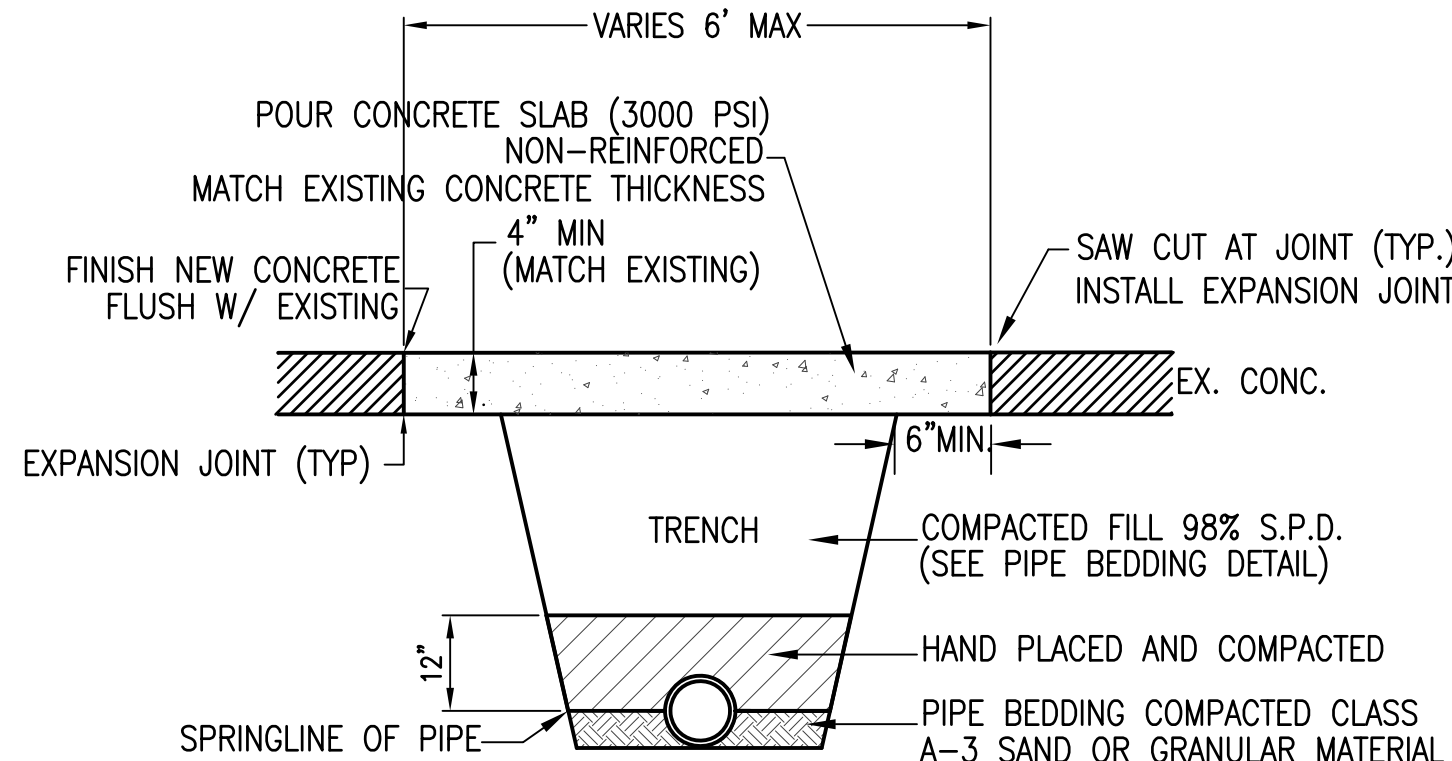
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BY:	
DATE:	

PROJECT NO: 2018-17
C303
SHEET: 5 OF 8

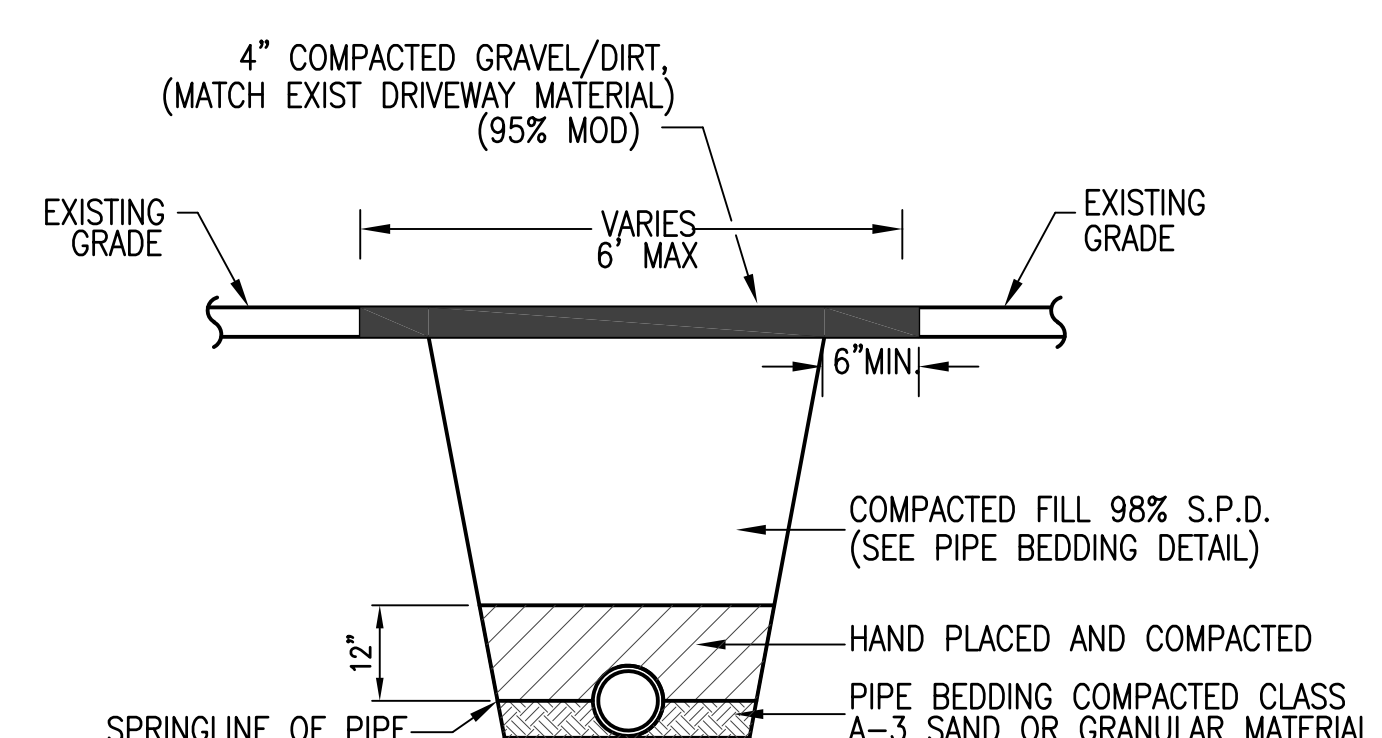
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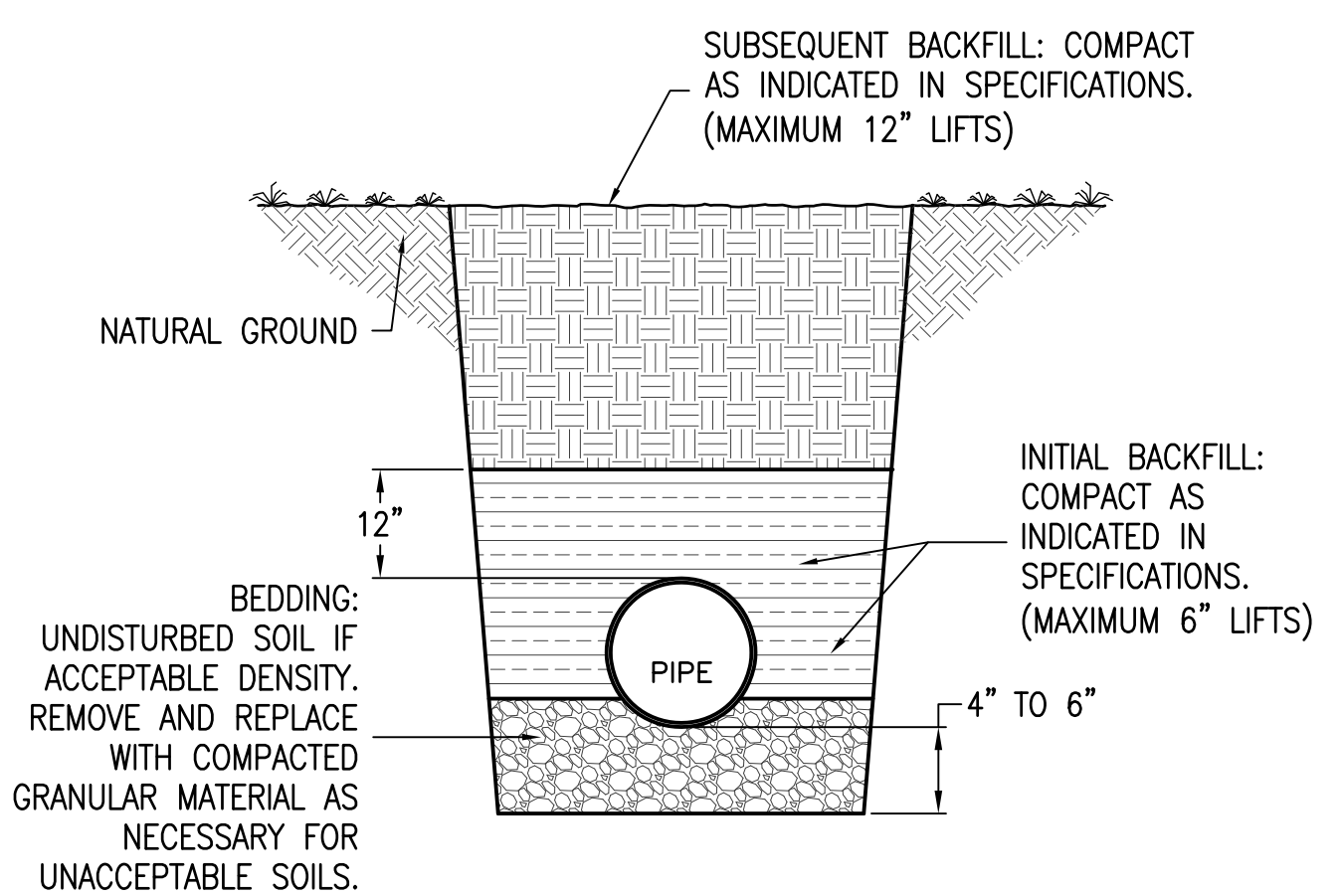
A ASPHALT ROADWAY CUT & PATCH DETAIL
C501 N.T.S.



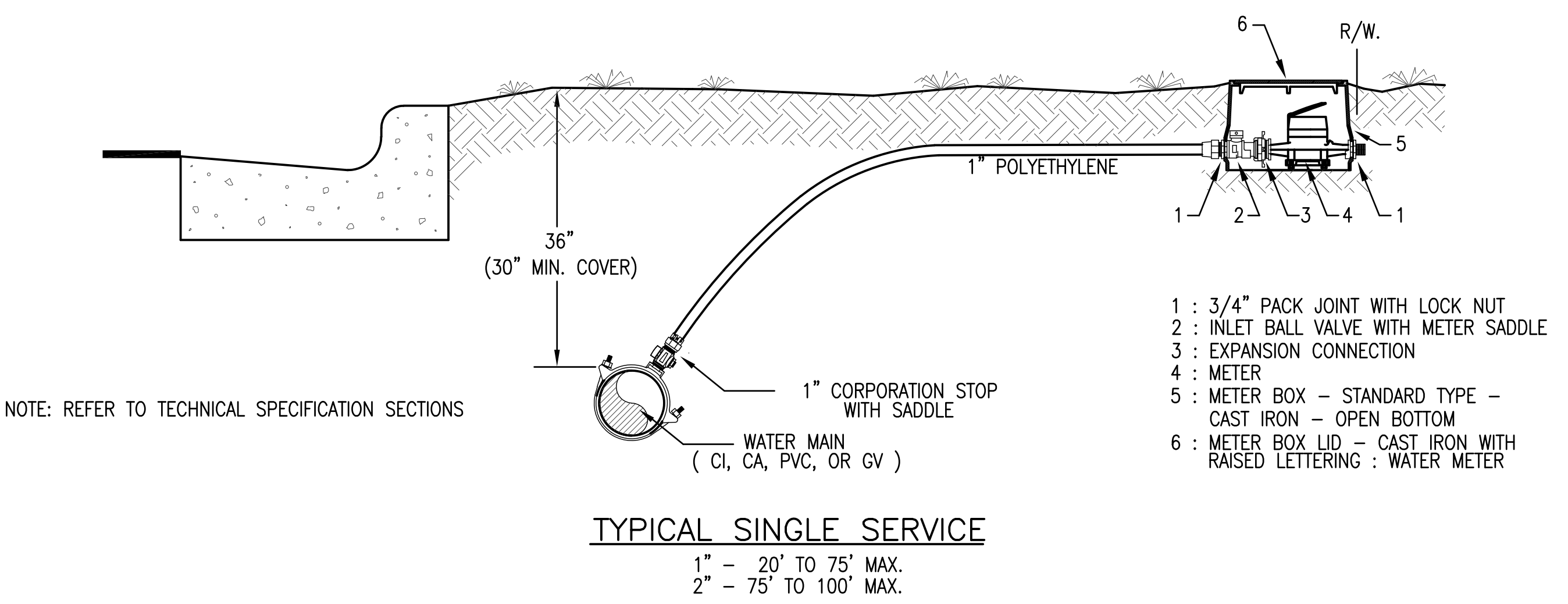
B CONCRETE DRIVEWAY CUT & PATCH DETAIL
C501 N.T.S.



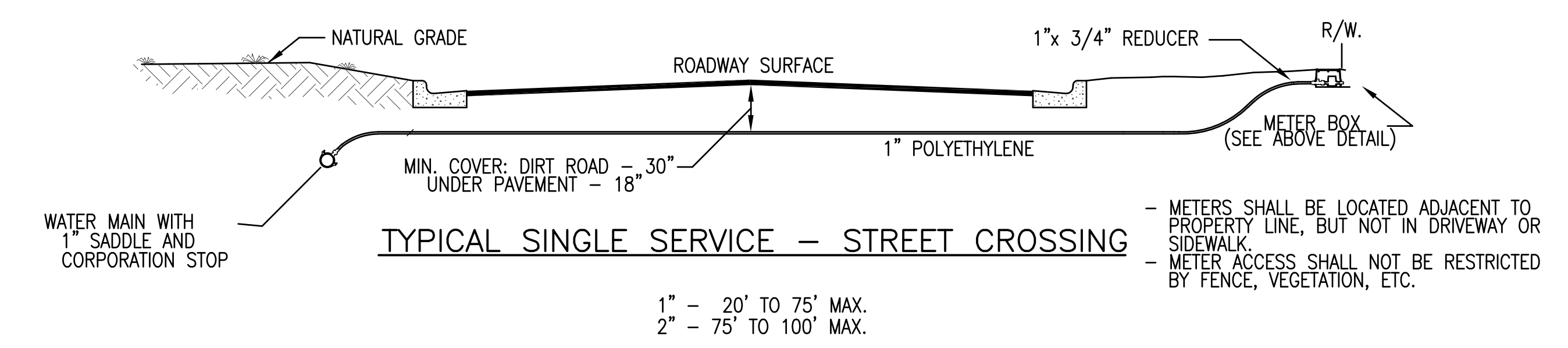
C GRAVEL/DIRT DRIVEWAY CUT & PATCH DETAIL
C501 N.T.S.



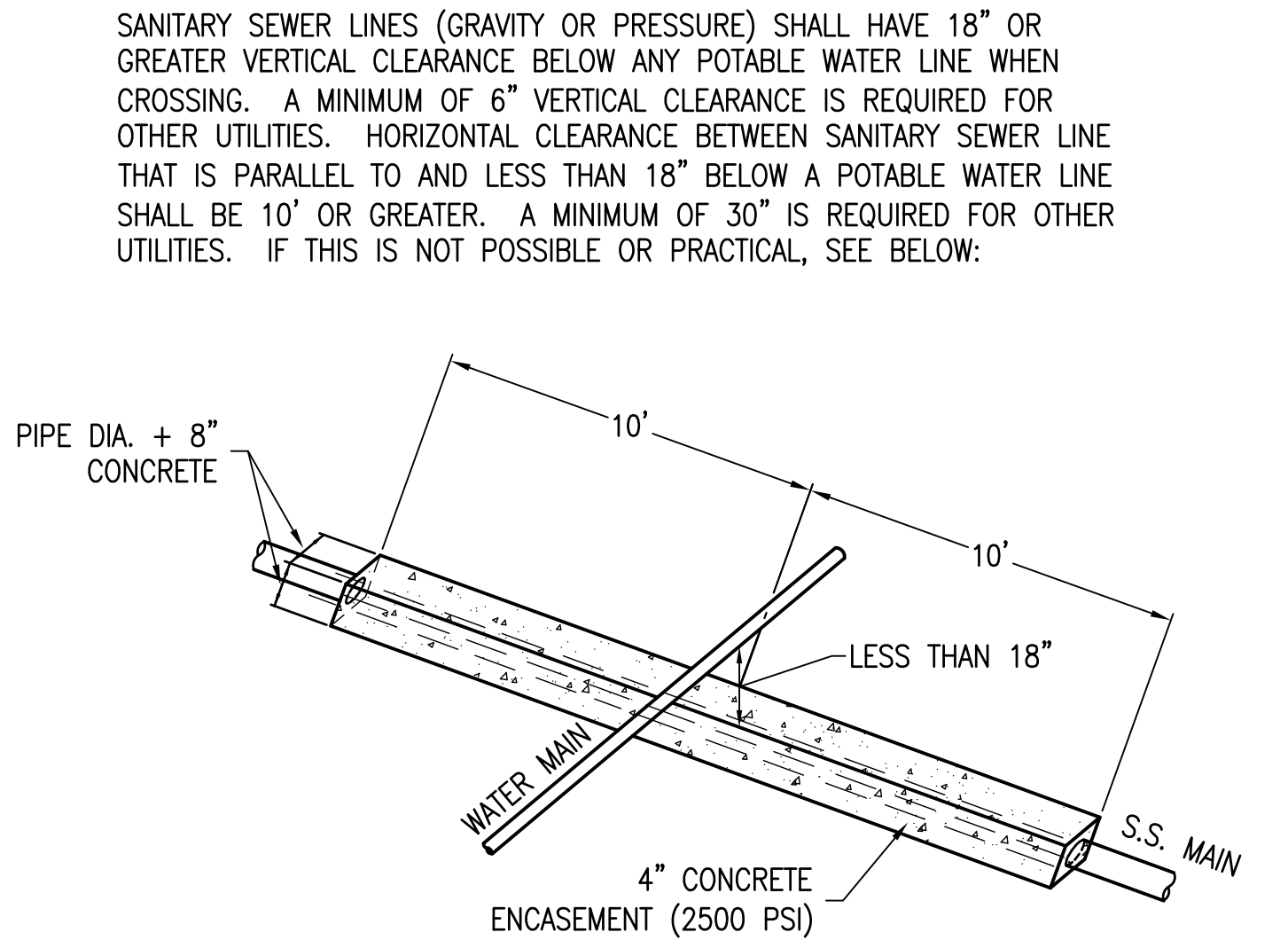
D PIPE BEDDING DETAIL
C501 N.T.S.



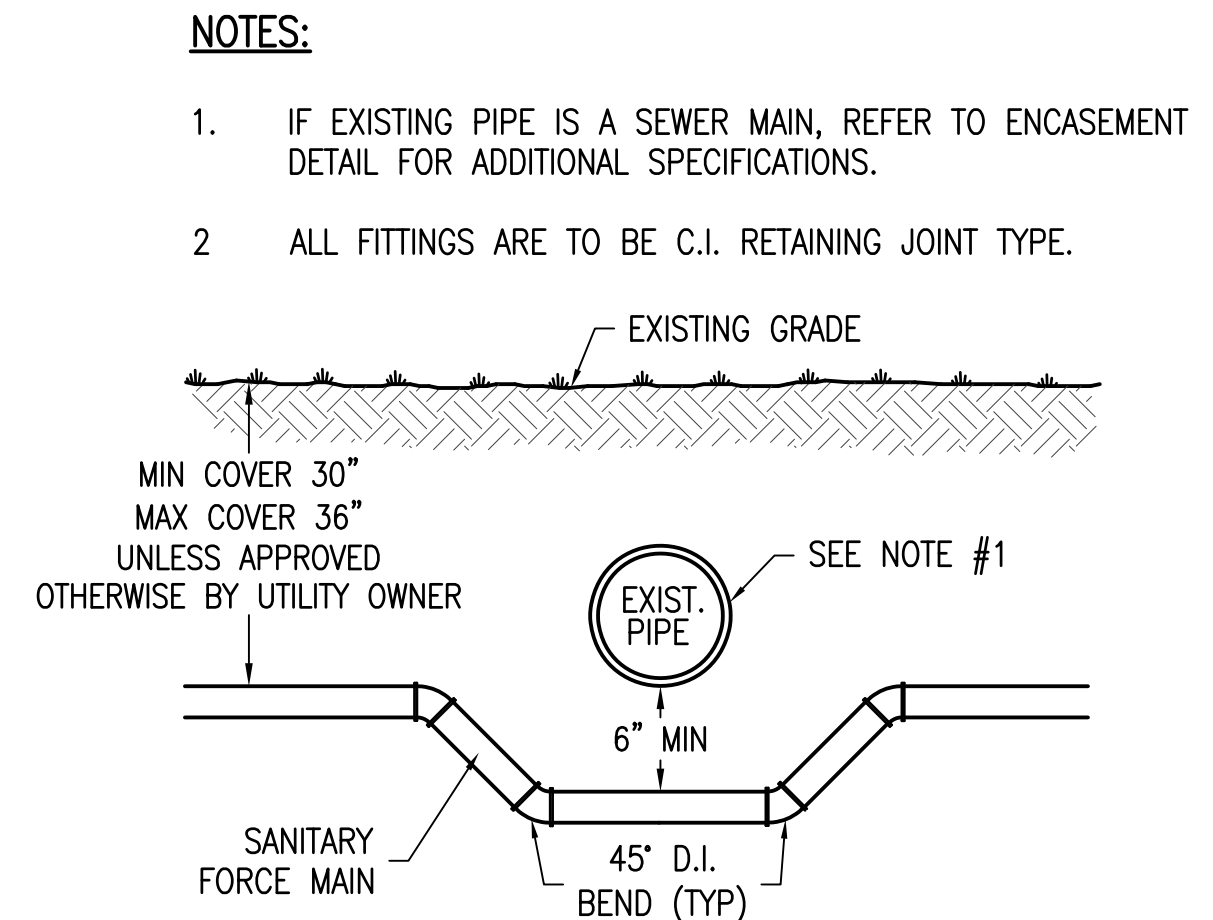
E TYPICAL WATER SERVICE 5/8" METER
C501 N.T.S.



E TYPICAL WATER SERVICE 5/8" METER
C501 N.T.S.



F WATER / SEWER SEPARATION & CLEARANCES DETAIL
C501 N.T.S.



G CONFLICT DETAIL
C501 N.T.S.

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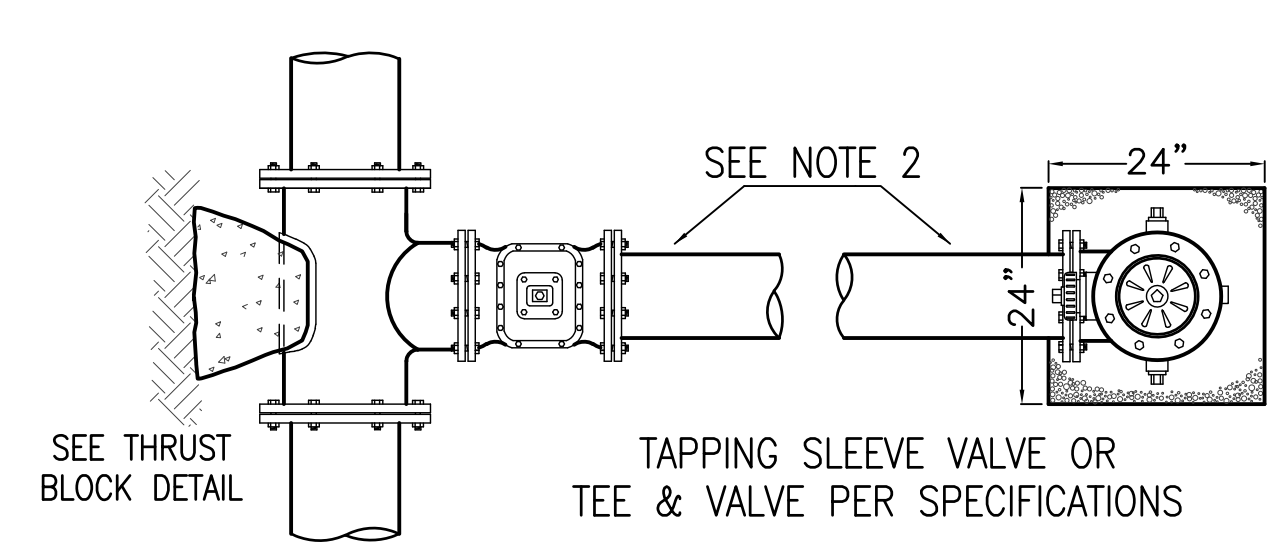
**HAMILTON BRIDGE ROAD
WATER MAIN UPGRADE
DETAILS**

FLORIDA
ESCAMBIA COUNTY

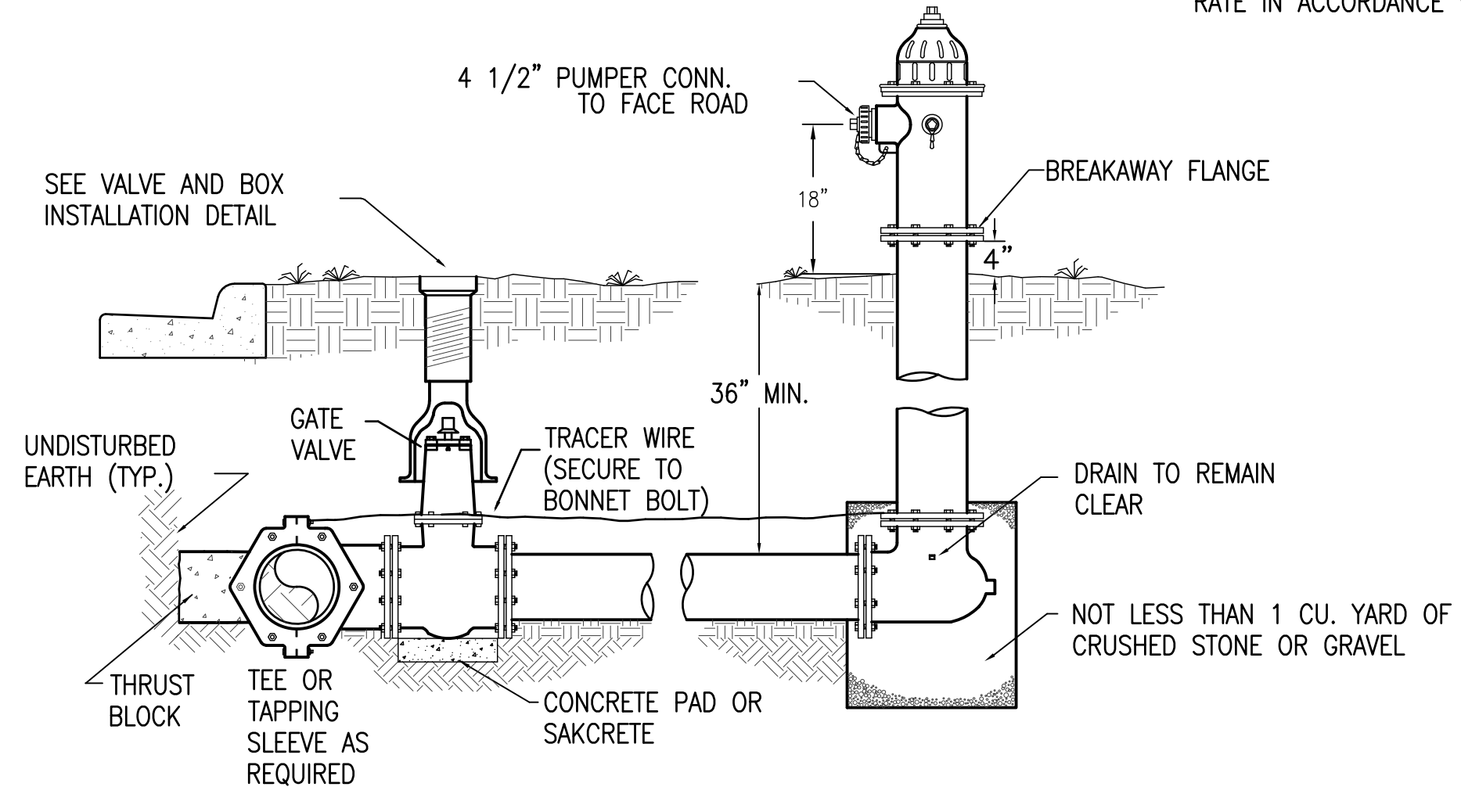
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PROJECT NO: 2018-17
C501
SHEET: 6 OF 8

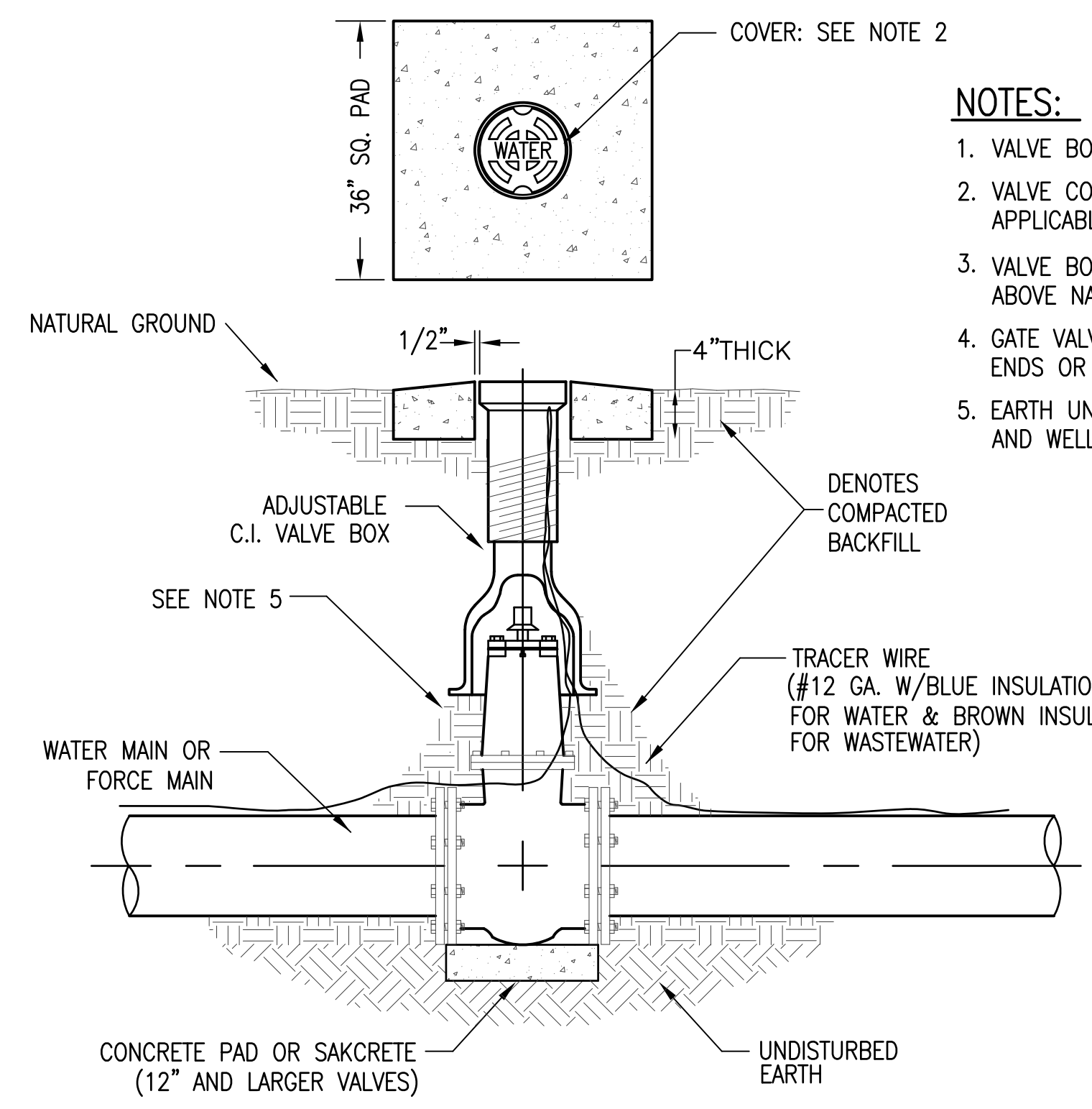
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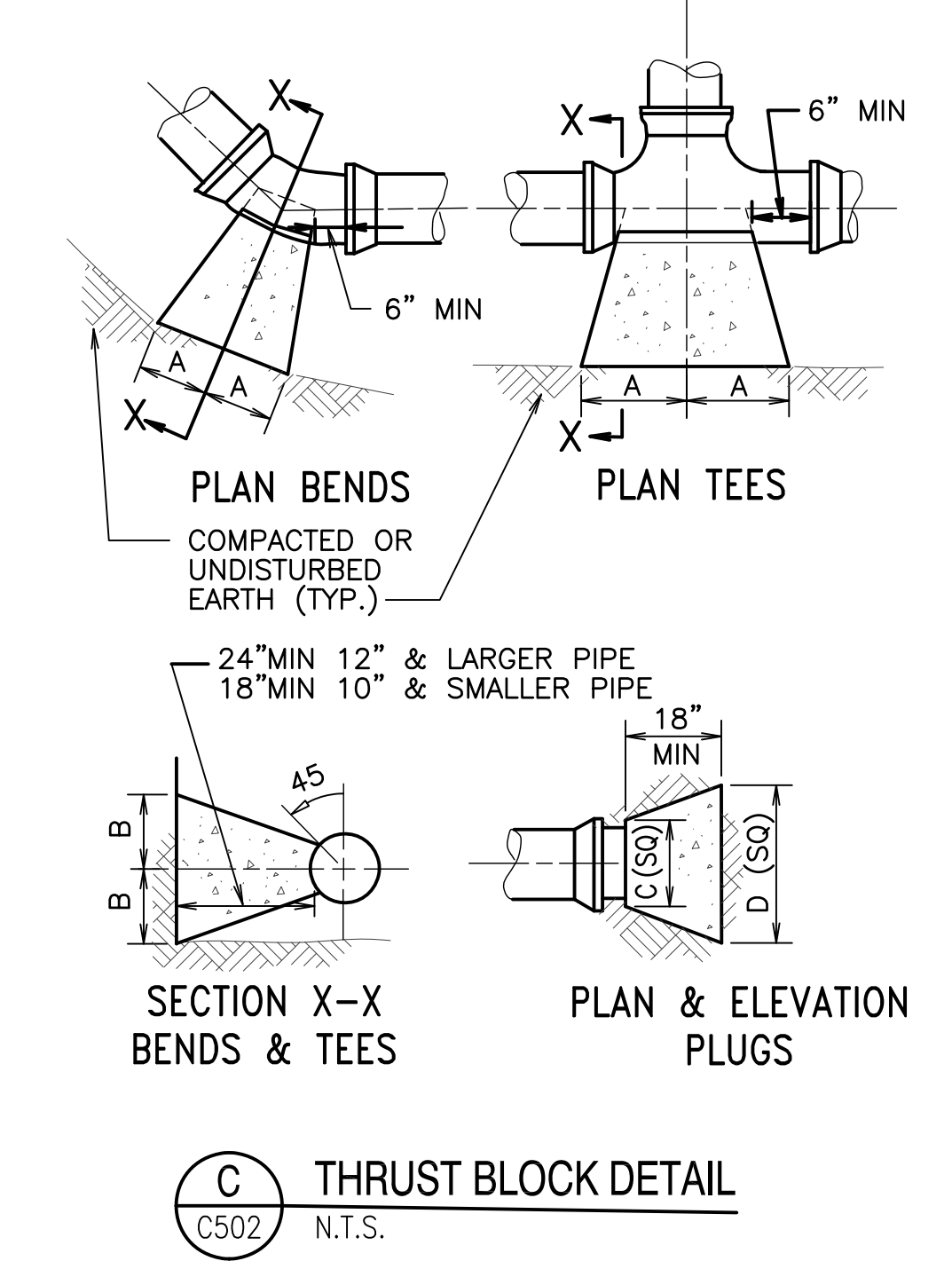
A TYPICAL FIRE HYDRANT INSTALLATION DETAIL
C502 N.T.S.



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"	



C THRUST BLOCK DETAIL
C502 N.T.S.

NOTES:

- CONTRACTOR TO ADJUST FIRE HYDRANT TO FINISHED GRADE.
- HYDRANT CONNECTORS, D.I.P. SPOOLS WITH MEGALUG JOINT RESTRAINTS, OR APPROVED EQUAL. (THRUST BLOCKING NOT REQUIRED.)
- PAINT PER UFC 3-600-01 SECTION 3-7.3.1 AND NFPA 291 (HYDRANT BARRELS SHALL BE RED FOR NON-POTABLE WATER AND YELLOW FOR POTABLE WATER. HYDRANT BONNET TO BE PAINTED ACCORDING TO FLOW RATE IN ACCORDANCE WITH NFPA 291.)

NOTES:

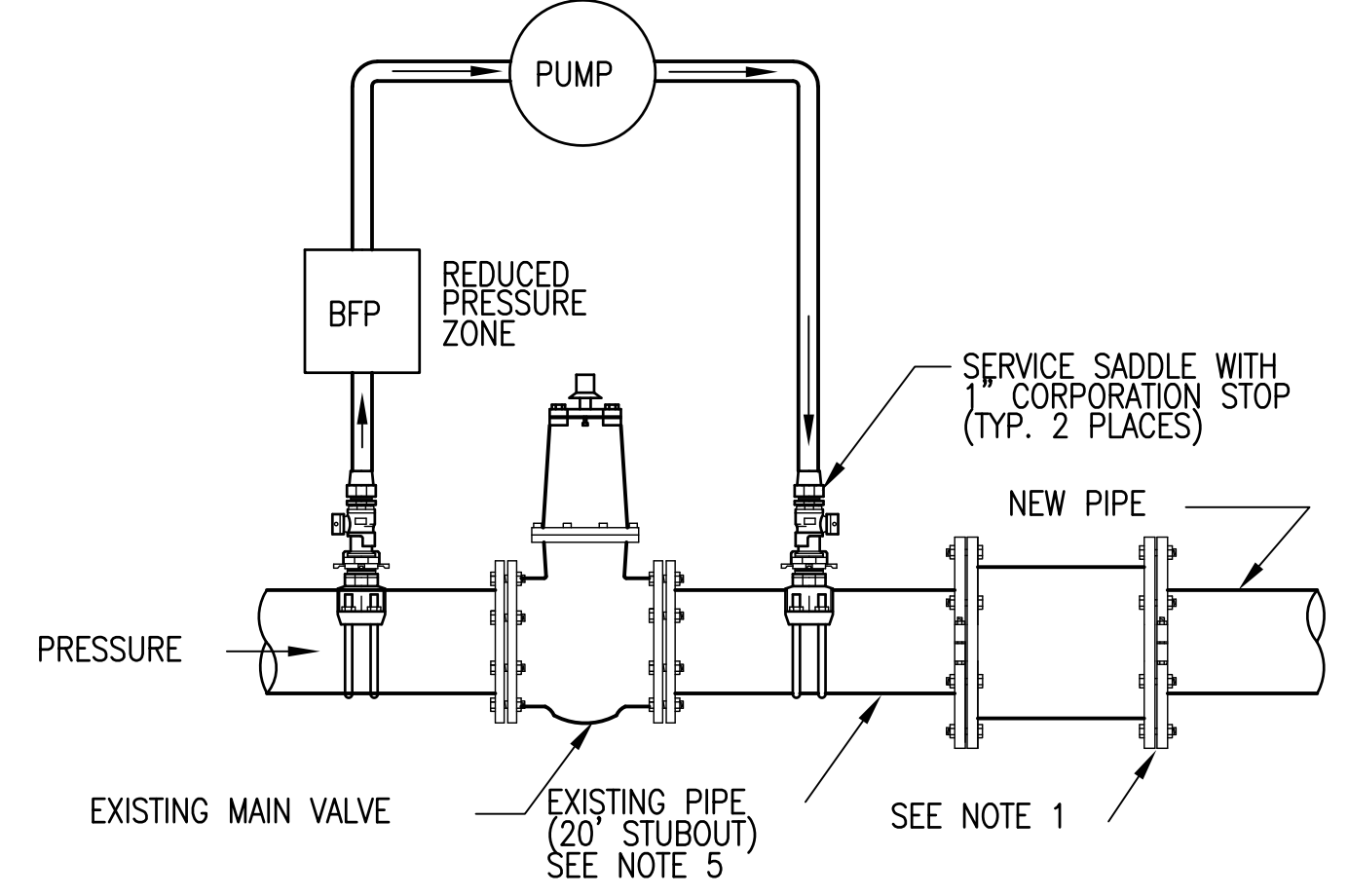
- VALVE BOX AND BOOT SHALL BE CAST IRON.
- VALVE COVER SHALL BE MARKED "WATER" OR "SEWER" AS APPLICABLE.
- VALVE BOX TOP SHALL BE FLUSH WITH FINISHED GRADE OR 1/2" ABOVE NATURAL GROUND LEVEL.
- GATE VALVE SHALL BE RESILIENT SEAT WITH MECHANICAL JOINT ENDS OR APPROVED EQUAL.
- EARTH UNDER FLANGE OF VALVE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

NOTES:

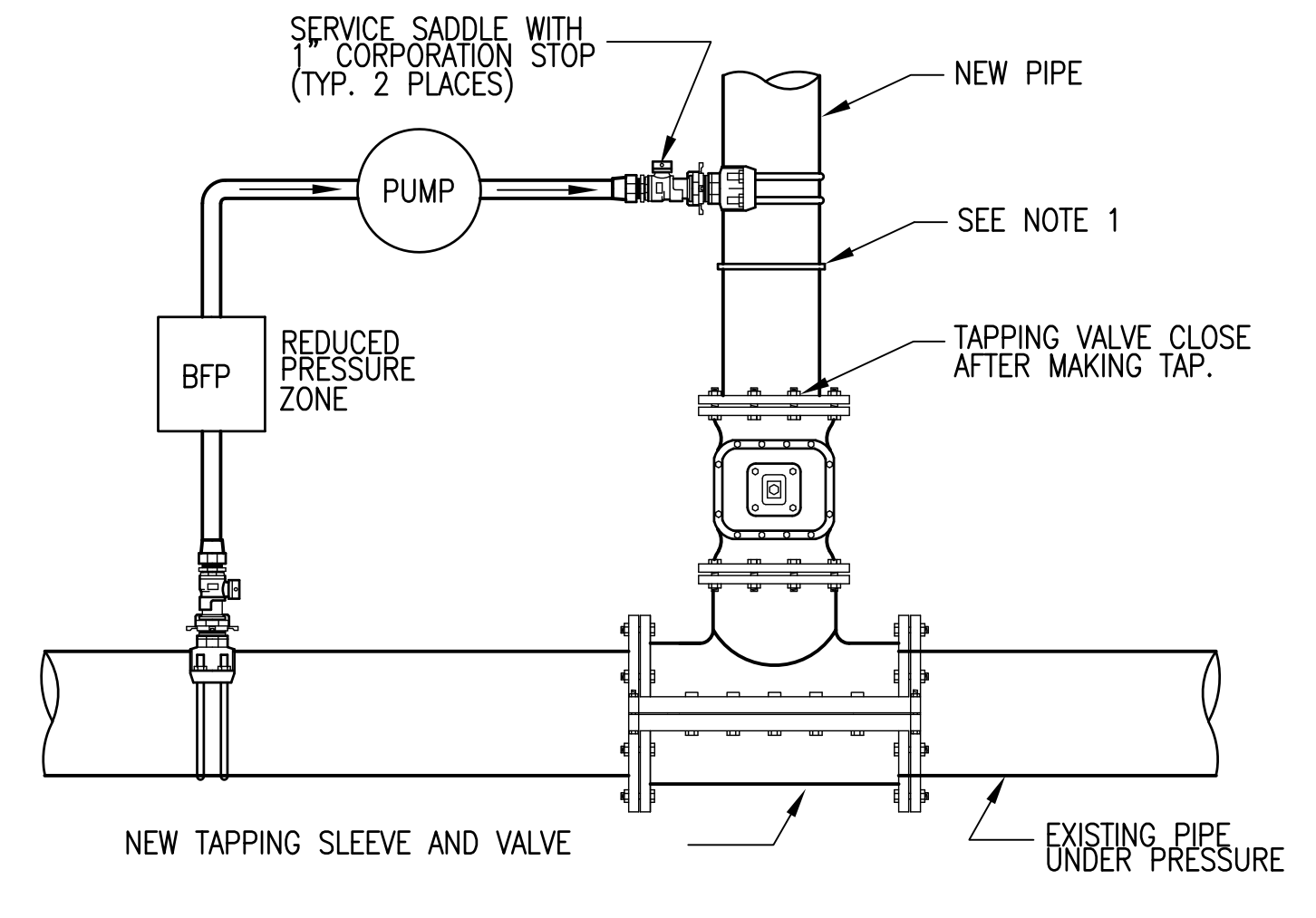
- NEW PIPE SHALL BE CAPPED OR PLUGGED FOR PRESSURE TEST. ONCE TEST IS SATISFACTORILY COMPLETED NEW MAIN IS TO BE CONNECTED TO EXISTING MAIN IN A MANNER ACCEPTABLE TO THE CITY OF MILTON.
- THE CONTRACTOR SHALL FLUSH LINE PRIOR TO STARTING THE CHLORINATION PROCEDURE. ALL FLUSHING SHALL BE DONE THROUGH 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.
- 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.
- 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.
- 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.

NOTES:

- 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.
- 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.
- 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.
- 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 CITY OF MILTON INSPECTOR. THE CITY OF MILTON SHALL COLLECT TEST SAMPLES.



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



TYPICAL CONNECTION FOR NEW LINE FILLING, PRESSURE TESTING, FLUSHING AND CHLORINATION. (TAPPING SLEEVE AND VALVE)

NO.	DATE	REVISIONS

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KH&A

**HAMILTON BRIDGE ROAD
WATER MAIN UPGRADE
DETAILS**

FLORIDA
ESCAMBIA COUNTY

DRAWN BY: AHH	DESIGNED BY: GMS
CHECKED BY: KCH	DATE: 2/4/2020
SCALE: AS SHOWN	NOT FOR CONSTRUCTION
BY: _____	DATE: _____

PROJECT NO: 2018-17
C502
SHEET: 7 OF 8

STORMWATER POLLUTION PREVENTION PLAN GENERAL NOTES:

1. EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.
3. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
4. SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
6. SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).
7. THE SITE SHALL ALWAYS BE GRADED AND MAINTAINED SUCH THAT STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
9. THE CONTRACTOR'S MEANS AND METHODS OF GROUNDWATER DEWATERING SHALL COMPLY WITH REGULATORY REQUIREMENTS FOR THE TEMPORARY DIVERSION OF GROUNDWATER AND ITS DISCHARGE, INCLUDING FDEP CHAPTER 62-621 "GENERAL PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY".

DUST CONTROL:

1. AREAS OF CLEARING AND EMBANKMENT AS WELL AS CONSTRUCTION HAUL ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.
2. CALCIUM CHLORIDE MAY BE APPLIED TO UNPAVED ROADWAY AREAS, ONLY, SUBJECT TO THE ENGINEER'S APPROVAL AND CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 102-5, LATEST EDITION.

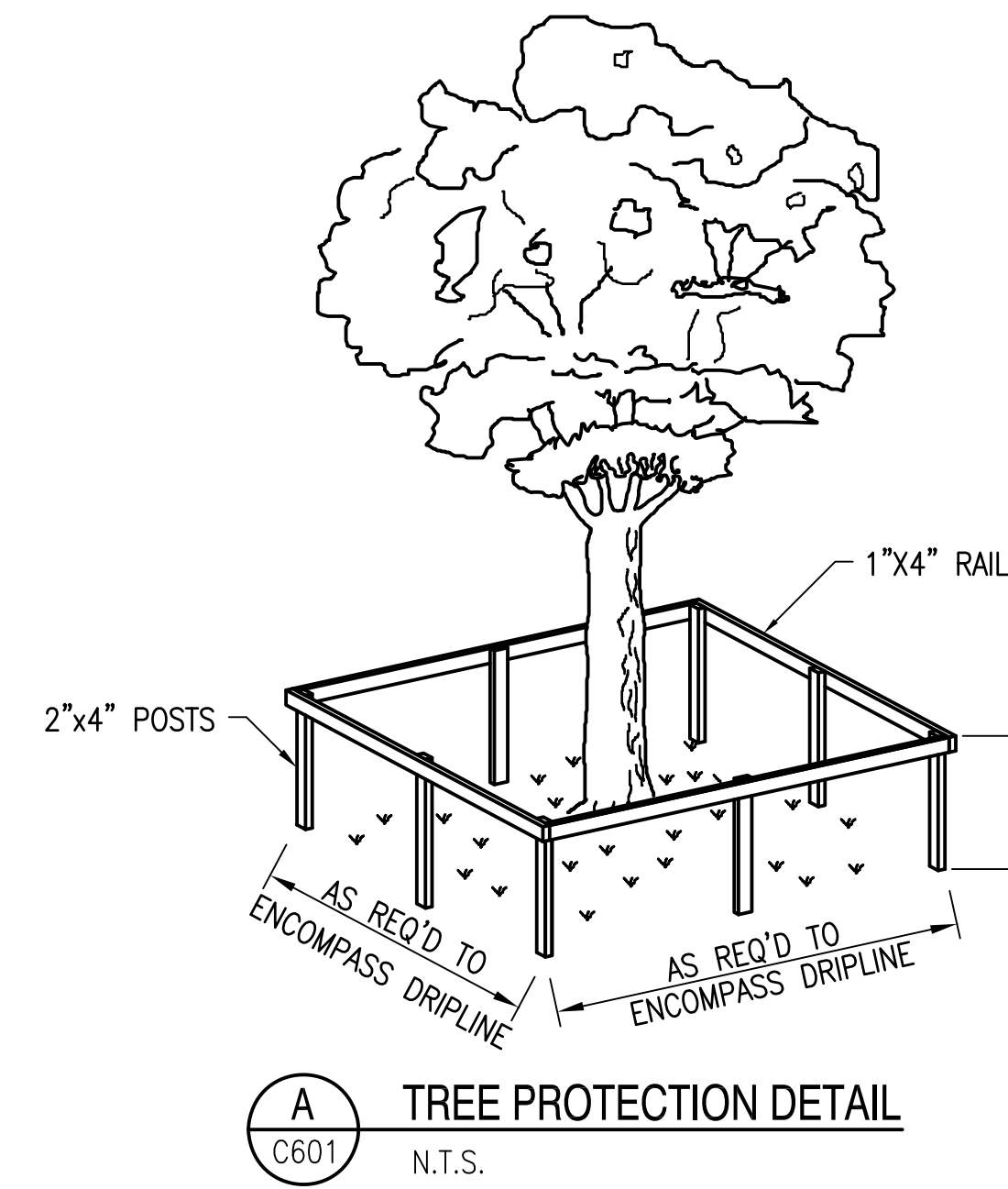
PROPOSED CONSTRUCTION:

THIS PROJECT SHALL CONSIST OF THE INSTALLATION OF A NEW 6" WATER LINE WITH ALL NECESSARY AND APPROPRIATE FITTINGS, VALVES AND APPURTENANCES AND THE PROTECTION OF EXISTING STRUCTURES. THE CONSTRUCTION SHOULD PROCEED IN THE FOLLOWING MANNER:

1. INSTALLATION OF SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.
2. CLEAR AND REMOVE EXISTING VEGETATION IN THOSE AREAS WHERE NECESSARY. REMAINING VEGETATION IS TO BE PROPERLY PROTECTED AND TO REMAIN IN ITS NATURAL STATE.
3. IMMEDIATE INSTALLATION OF REMAINING SEDIMENT AND EROSION CONTROL DEVICES.
4. INITIATE CONSTRUCTION
5. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, PROVIDE RESTORATION, FINE GRADE REMAINDER OF SITE.
6. REMOVAL OF APPROPRIATE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.

EROSION AND SEDIMENTATION CONTROL NOTES:

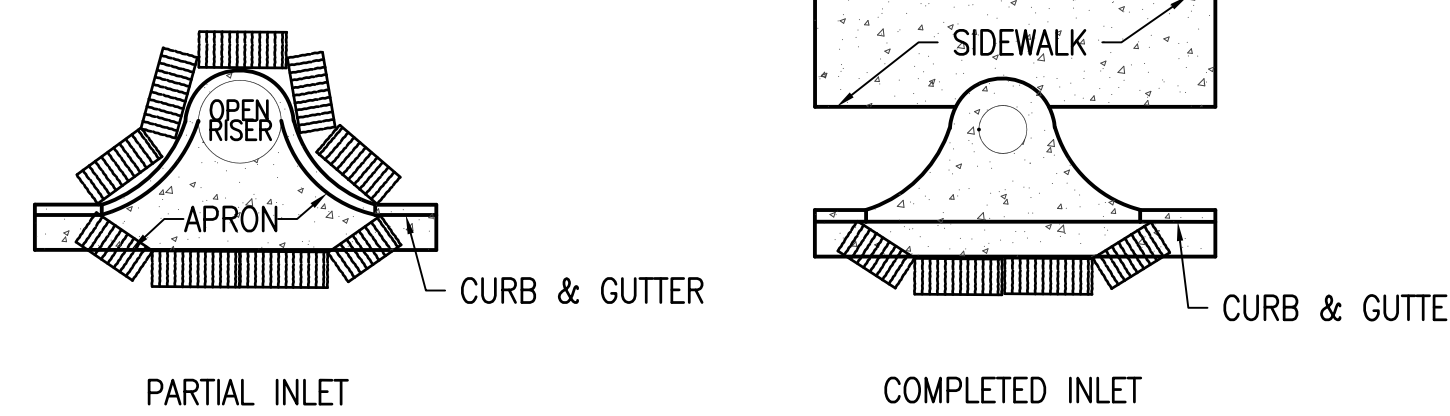
1. SILT FENCE SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT FENCES TIGHTLY ABUTTING ONE ANOTHER PRIOR TO EARTHWORK OPERATIONS.
2. THE SILT FENCE BARRIER SHALL BE ENTRENCHED AND BACK FILLED. A TRENCH SHALL BE EXCAVATED THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 6 INCHES. THE EXCAVATED SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER.
3. SILT FENCE BARRIERS SHALL BE SECURELY ANCHORED.
4. SILT FENCE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
6. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE, END RUNS AND UNDERCUTTING BENEATH FENCE.
7. NECESSARY REPAIRS TO SILT FENCE BARRIERS OR REPLACEMENT OF FENCE SHALL BE ACCOMPLISHED PROMPTLY.
8. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE BARRIER.
9. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



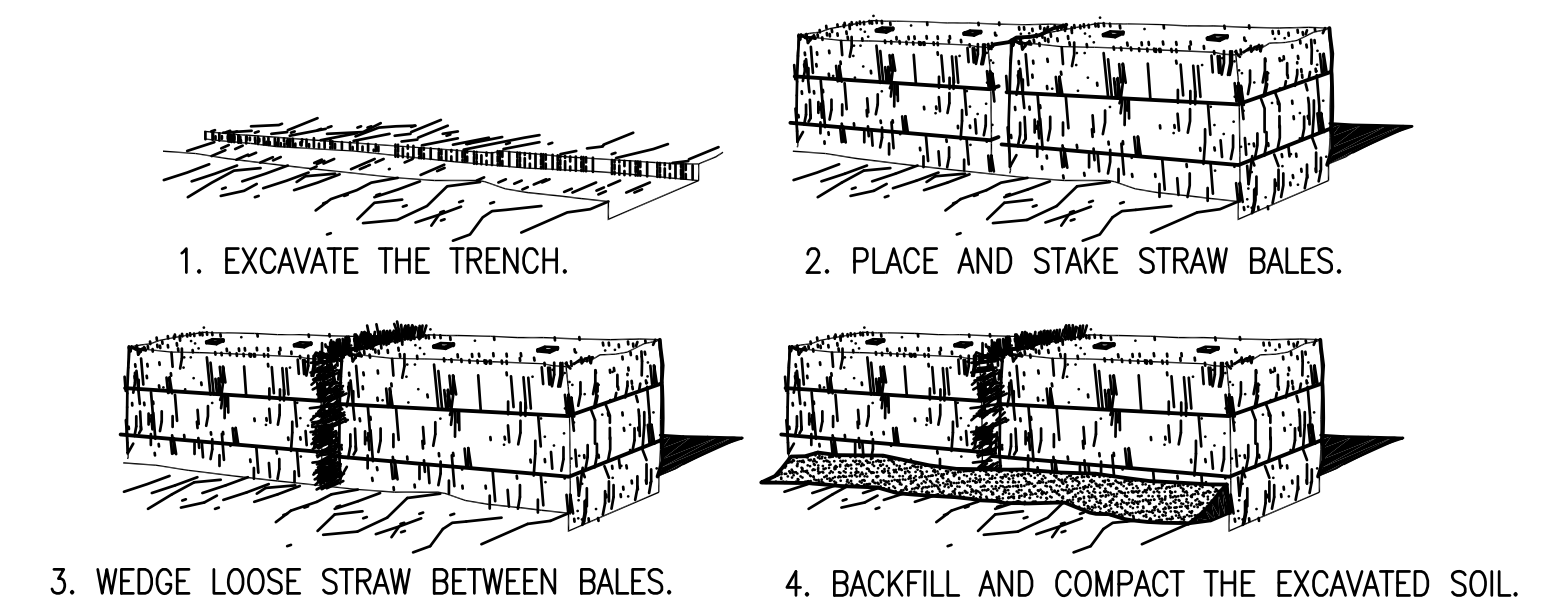
A TREE PROTECTION DETAIL
C601 N.T.S.

TREE PROTECTION NOTES:

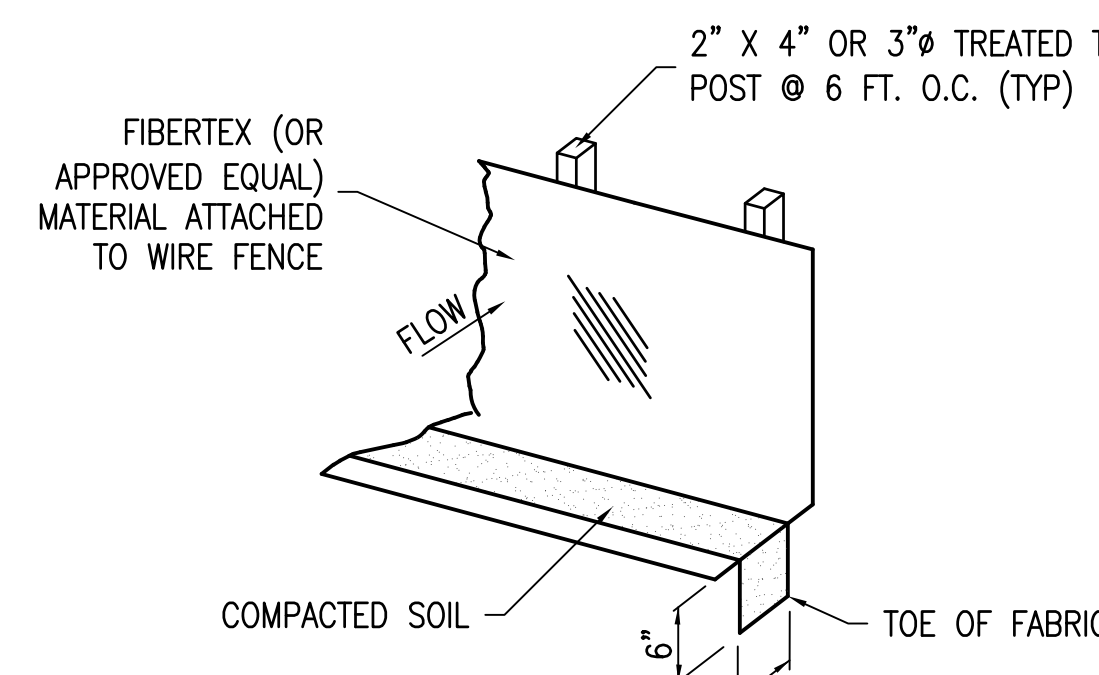
1. DURING DEVELOPMENT ACTIVITIES, PROTECTED TREES SHALL BE PROTECTED FROM ACTIVITIES WHICH MAY INJURE OR KILL THEM.
2. THE ENTIRE DRIP LINE OF THE TREE SHALL BE PRESERVED IN A NATURAL STATE OR PROVIDED WITH PERVIOUS LANDSCAPING. WHERE THIS IS IMPRACTICAL, A WAIVER MAY BE GRANTED; HOWEVER, IN NO CASE SHALL MORE THAN FIFTY (50) PERCENT OF THE DRIP LINE BE COVERED WITH IMPERMEABLE MATERIALS. AT LEAST FIFTY (50) PERCENT OF THE AREA WITHIN THE DRIP LINE AND THE AREA WITHIN FIVE (5) FEET OF THE TRUNK SHALL BE PRESERVED IN A NATURAL STATE OR PROVIDED WITH PERVIOUS LANDSCAPING. WITHIN FIVE (5) FEET OF THE TRUNK, THE SOIL SHALL BE MAINTAINED AT ITS ORIGINAL GRADE WITH NO TRENCHING OR CUTTING OF ROOTS. BEYOND FIVE (5) FEET OF THE TRUNK AND WITHIN THE DRIP LINE, A LIGHT FILL OF POROUS GRAVELLY MATERIAL UP TO SIX (6) INCHES DEEP MAY BE ADDED BUT NO GRADE LOWERING SHALL OCCUR. TO ACCOMPLISH DEEPER FILLING, A DRAINAGE SYSTEM SHALL BE INSTALLED WITHIN THE AREA DEFINED IN A DRIP LINE OF THE TREE AND A DRYWALL SHALL BE CONSTRUCTED AT A DISTANCE AT LEAST FIVE (5) FEET FROM THE TRUNK OF THE TREE BEFORE GRAVEL AND POROUS FILL ARE ADDED.
3. WITHIN THE DRIP LINE, THERE SHALL BE NO STORAGE OF FILL OR COMPACTION OF THE SOIL AS FROM HEAVY EQUIPMENT, OR ANY SPILLING, STORAGE OR DISPOSAL OF CONCRETE, MORTAR, PAINT, SOLVENTS, CHEMICALS, OR OTHER POTENTIALLY HARMFUL SUBSTANCES.
4. ALL TREES TO BE PROTECTED SHALL BE PROTECTED BY MEANS OF A PHYSICAL BARRIER WHICH WILL LIMIT ACCESS TO SAID TREE. SAID PROTECTIVE BARRIER SHALL BE COMPOSED OF WOOD OR OTHER SUITABLE MATERIALS WHICH ASSURE COMPLIANCE WITH THE INTENT OF THIS ORDINANCE. SAID PROTECTIVE BARRIERS, WHERE REQUIRED, SHALL REMAIN UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETE. A MINIMUM OF ONE HUNDRED (100) PERCENT OF THE AREA WITHIN THE DRIP LINE SHALL BE SO PROTECTED UNLESS A WAIVER IS GRANTED. ALSO, DURING CONSTRUCTION, NO ATTACHMENTS OR WIRES SHALL BE ATTACHED TO ANY PROTECTED TREE. BARRIERS WILL BE REQUIRED FOR ALL TREES BEING PROTECTED EXCEPT IN THE FOLLOWING CASES:
 - A. ROAD RIGHT-OF-WAYS, UTILITY EASEMENTS, ETC. THESE AREAS MAY BE RIBBED BY PLACING STAKES A MAXIMUM OF FIFTY (50) FEET APART AND TAPING RIBBON, PLASTIC TAPE, ROPE, ETC., FROM STAKE TO STAKE ALONG THE OUTSIDE PERIMETERS OF SUCH AREAS TO BE CLEARED.
 - B. LARGE PROPERTY AREAS SEPARATE FROM THE CONSTRUCTION OR LAND CLEARING AREA INTO WHICH NO EQUIPMENT WILL VENTURE MAY ALSO BE RIBBONED OFF.



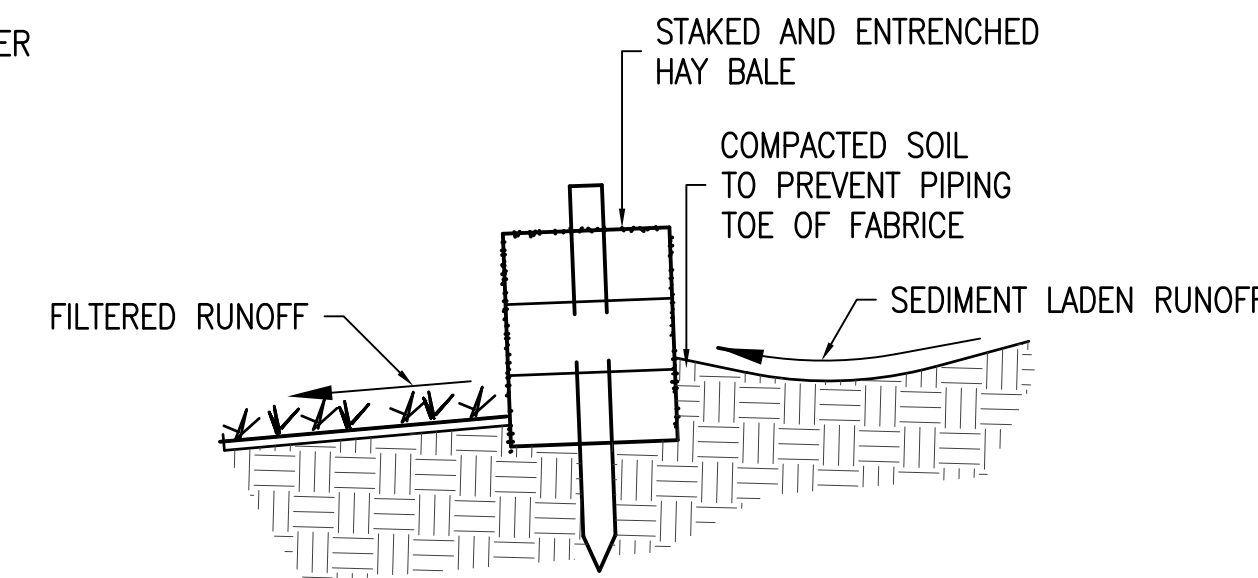
B PROTECTION AROUND INLETS OR SMALLER STRUCTURES
C601 N.T.S.



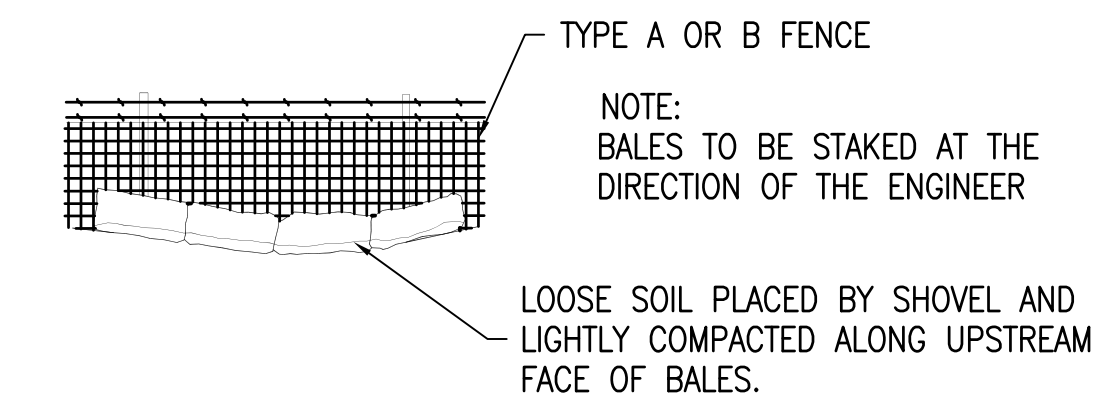
C STRAW BALE BARRIER DETAIL
C601 N.T.S.



D SILT FENCE DETAIL
C601 N.T.S.



E DETAIL OF PROPERLY INSTALLED HAY BALE
C601 N.T.S.



F BALES BACKED BY FENCE
C601 N.T.S.

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NO.	DATE	REVISIONS

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HAMILTON BRIDGE ROAD	FLORIDA
WATER MAIN UPGRADE	ESCAMBIA COUNTY
EROSION CONTROL DETAILS	

DRAWN BY:	AHH
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BY:	
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SHEET:	8 OF 8