

BAPTIST WEST NASSAU MEDICAL VILLAGE PHASE 1

NASSAU COUNTY, FLORIDA

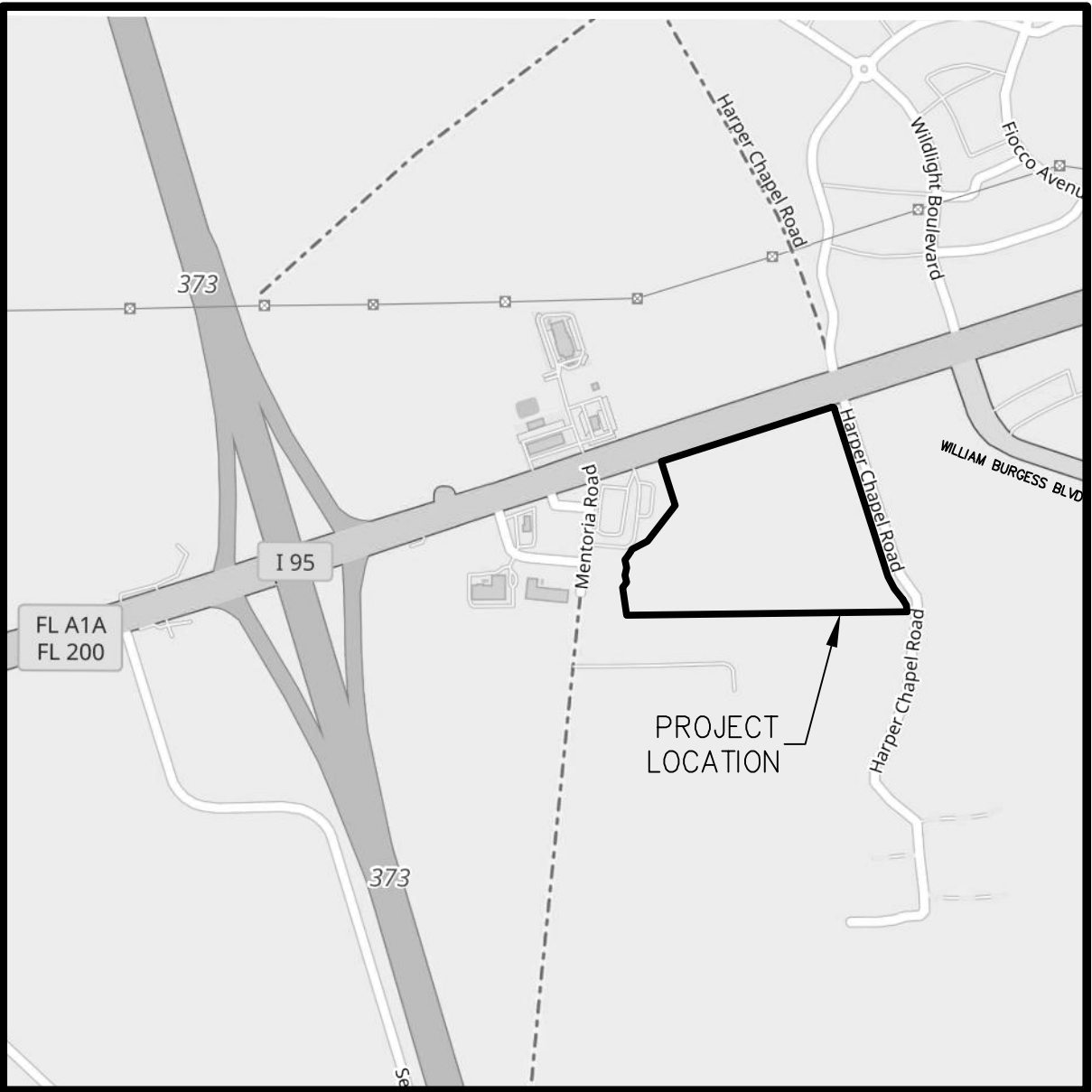
PREPARED FOR

BAPTIST HEALTH PROPERTIES, INC.

1660 PRUENTIAL DRIVE, SUITE 101
JACKSONVILLE, FL
904-202-5626



England-Thims & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32258
TEL: (904) 642-8990
FAX: (904) 646-9485
CA - 00002584 LC - 0000316



LOCATION MAP
N.T.S.

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NOTE:
IF YOU DIG IN FLORIDA, YOU ARE REQUIRED TO
CALL SUNSHINE STATE ONE-CALL OF FLORIDA,
INC. 1-800-432-4770 FOR LOCATES. IT'S THE
LAW.

JEA FLOW TEST	
FLOW TEST DATE: 07/24/2020 @ 10:01 AM	
FLOW HYDRANT LOCATION: DAYDREAM AV 200' N OF SR200/A1A (538034)	
STATIC RESIDUAL HYDRANT LOCATION: N OF MENTORIA RD & SR200/A1A (404594)	
NUMBER OF PORTS: 3	
DIAMETER OF PORTS (IN): 2.5	
PITOT PRESSURE (PSI): 18	
STATIC PRESSURE (PSI): 64	
RESIDUAL PRESSURE (PSI): 40	
FLOW AT TEST (GPM):	2,148
FLOW AT 20 PSI (GPM):	2,980

JEA AVAILABILITY #: 2019-2065

VERTICAL DATUM USED FOR
THIS PROJECT: NAVD 1988

COVER SHEET

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER
1



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ETM NO. 17-252-01-001	REVISIONS:
DRAWN BY: NEW	
DESIGNED BY: JN	
CHECKED BY: LDK	
DATE: JUL 2020	

PLANS PREPARED UNDER THE
DIRECTION OF:

LYNDSEY KELLER
P.E. NUMBER: 77763

WATER, REUSE, & SEWER REQUIREMENTS

































12. PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.
13. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH NASSAU COUNTY STANDARDS AND SHALL BE FILLED WITH THE STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
14. CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, BERMS, RIGHTS-OF-WAYS AND EASEMENTS (INCLUDING ELECTRIC EASEMENTS) ARE INCLUDED IN THIS PROJECT.
15. ALL ACCESS EASEMENTS ARE TO BE STABILIZED AND DRIVABLE.
16. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY CONTRACTOR.
17. BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH NASSAU COUNTY FIRE MARSHAL AND ALL OTHER PERMITTING AUTHORITIES BY THE CONTRACTOR.
18. UNSUITABLE MATERIALS UNDER UTILITY OR STORM PIPE, STRUCTURES, PAVEMENT, BUILDING PADS, OR HARDSCAPE ELEMENTS SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL PROPERLY COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
19. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTRACT WITH THE SURVEYOR OF RECORD FOR REINSTALLATION OF THE MONUMENT.
20. ALL UNDERGROUND UTILITIES TO BE INSTALLED UNDER PAVEMENT MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
21. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION WITH ALL OTHER CONTRACTORS. IN THE EVENT OF ANY CONFLICT WHATSOEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
22. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STORM PIPE OR STRUCTURE.
23. AUGER BORINGS PROVIDED BY MESKEI & ASSOCIATES ENGINEERING, DATED: 12/19/2017,
24. FLOOD ZONE BASED UPON FEMA INSURANCE RATE MAPS PANEL NOS. 120809C0335F, DATED: 12/17/2020,
25. FOR SEDIMENT AND EROSION CONTROL PLANS, DETAILS AND NOTES REFER TO DRAWINGS 1 AND 14. CONTRACTOR TO COORDINATE WITH AUTHORITY FOR INSPECTIONS PRIOR TO CLEARING OPERATIONS.
26. ELEVATIONS ARE BASED ON NAVD 1988.
27. TOPOGRAPHIC INFORMATION BASED ON SURVEY PROVIDED BY ETM SURVEYING & MAPPING, INC., DATED: 02/26/2019,
28. BOUNDARY INFORMATION BASED ON SURVEY PROVIDED BY JMM SURVEYING & MAPPING, LLC, DATED: 01/26/2016,
29. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF "NASSAU COUNTY ORDINANCE 99-17 (LATEST EDITION)" AND ALL CURRENT COUNTY STANDARD DETAILS. THE WORK SHALL BE PERFORMED AND TESTED IN ACCORDANCE WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION REPORT PROVIDED BY MESKEI & ASSOCIATES ENGINEERING, DATED: 12/19/2017, IF MORE STRINGENT THAN COUNTY REQUIREMENTS.
30. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE CIVIL ENGINEER TO DETERMINE THE APPROPRIATE COUNTY'S JURISDICTION FOR INSPECTION. IF SO THEN, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH NASSAU COUNTY FOR PRE-CONSTRUCTION MEETING AND INSPECTIONS AT 904-530-6225.
31. PROJECT LOCATION: NASSAU COUNTY, FLORIDA.
32. THESE PLANS WERE GENERATED UTILIZING AUTOCAD CIVIL 3D 2019.
33. THESE PLANS ARE PREPARED IN GENERAL COMPLIANCE WITH THE NASSAU COUNTY COUNTY I AND DEVELOPMENT CODE.

1. ALL WATER, REUSE WATER, WATER, SANITARY SEWER AND STORM SEWER CONSTRUCTION SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR, LICENSED UNDER THE PROVISIONS OF CHAPTER 489 FLORIDA STATUTES. THE CONTRACTOR SHALL FURNISH A COPY OF THE CURRENT LICENSE AND QUALIFIERS TO THE DESIGN ENGINEER PRIOR TO START OF CONSTRUCTION. ALL WATER, REUSE WATER AND SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH JEA STANDARDS, DETAILS AND MATERIALS MANUAL (LATEST REVISIONS) UNLESS MORE STRINGENT STANDARDS ARE SPECIFIED.
 2. FIRE PROTECTION MAINS (NON-JEA OWNED WATER SYSTEMS) SHALL BE C-900 PVC DR18 PIPE AND SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA REQUIREMENTS BY A FLORIDA LICENSED CONTRACTOR QUALIFIED TO INSTALL FIRE PROTECTION MAINS. LOCAL PERMITTING AND INSPECTION OF FIRE PROTECTION SYSTEM INSTALLATION, FLUSHING AND TESTING IS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR LOCAL PERMIT, NOTICE, AND COMPLIANCE WITH PERMIT.
 3. FINAL CONNECTION TO THE JEA SYSTEM MAY BE CONTINGENT UPON THE CONSTRUCTION, DEDICATION, AND FINAL ACCEPTANCE OF OFF-SITE SYSTEMS.
 4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER (AND THE JEA IF REQUIRED) ON ALL STRUCTURES AND MATERIALS, FOR REVIEW AND APPROVAL PRIOR TO PURCHASE OR FABRICATION OF ANY UTILITY PIPE OR STRUCTURE.
 5. UNSUITABLE MATERIALS UNDER UTILITY PIPES AND STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
 6. MECHANICALLY RESTRAINED JOINTS ARE REQUIRED ON PRESSURE MAINS AT VALVES, FITTINGS AND DEAD ENDS IN ACCORDANCE WITH JEA STANDARDS.
 7. CONTRACTOR SHALL FURNISH AND INSTALL LOCATE WIRING ON ALL PVC WATER MAINS, REUSE MAINS, FORCE MAINS, POLYETHYLENE AND PVC WATER SERVICES. INSTALLATION SHALL BE IN ACCORDANCE WITH JEA STANDARDS, DETAILS AND MATERIAL MANUAL, LATEST EDITION.
 8. ALL POINTS OF CONNECTION FOR WATER, REUSE WATER AND SEWER MUST BE IN ACCORDANCE WITH THE AVAILABILITY RESPONSE FROM JEA.
 9. F.D.E.P. PERMITS SUBMITTED THROUGH THE DEPARTMENT FOR PROCESSING SHALL BE IN CONFORMANCE WITH BOTH THE DESIGN PLANS AND THE WATER AND SEWER AVAILABILITY RESPONSE. ANY MINOR OR MAJOR DEVIATIONS BETWEEN THE PRELIMINARY DESIGN AND FINAL DESIGN SUBMITTAL SHALL REQUIRE REVISED F.D.E.P. PERMITS REFLECTING THESE CHANGES.
 10. A JEA PRE-CONSTRUCTION CONFERENCE MUST BE HELD PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CONTACT THE JEA NEW DEVELOPMENT PROJECT COORDINATOR: CHRIS BARRINGTON OR JEA DESIGNEE AT (904) 665-4081 TO SCHEDULE THIS CONFERENCE.
 11. A TAP APPLICATION FEE IS REQUIRED AND SHALL BE PAID @ 515 N. LAURA ST., 1ST FLOOR. THIS MUST BE ACCOMPLISHED PRIOR TO CONNECTION TO THE JEA'S SYSTEM (WATER, SEWER, REUSE). IN ADDITION, CAPACITY FEES MUST BE PAID AT TIME OF OR PRIOR TO THE TAP FEE AND WILL BE BASED ON THE TOTAL NUMBER OF FIXTURE UNITS AND OR AVERAGE DAILY FLOWS.
 12. THE CONTRACTOR SHALL MINIMIZE SERVICE INTERRUPTIONS AND MAINTAIN ANY EXISTING WATER AND SEWER SERVICE TO MEET THE SYSTEM DEMANDS AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF AFFECTED CUSTOMERS AND UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
 13. CONTRACTOR SHALL OBTAIN A COPY OF THE F.D.E.P. OR JEA WATER AND SEWER PERMITS FROM THE ENGINEER PRIOR TO START OF CONSTRUCTION AND MUST COMPLY WITH ALL CONDITIONS OF PERMIT(S).
 14. ALL JEA ELECTRICAL CONDUIT WORK SHALL BE COMPLETED PRIOR TO THE PRESSURE TESTING OF WATER MAINS, REUSE MAINS AND SEWAGE FORCE MAINS. ALL PRESSURE TESTING AND PUMP TESTING SHALL BE WITNESSED BY JEA AND THE ENGINEER.
- WATER AND REUSE MAINS
15. UNLESS OTHERWISE INDICATED, ALL WATER MAINS AND REUSE MAINS WILL BE PVC DR18, C-900/C-905 (AS APPROPRIATE) PIPE. ALL 2" MAINS SHALL BE HDPE CTS SDR 9.
 16. WATER MAINS AND REUSE MAINS SHALL HAVE A MINIMUM OF 30" COVER UNDER UNPAVED AREAS AND 36" MINIMUM COVER FROM FINISHED GRADE UNDER PAVED AREAS UNLESS OTHERWISE SHOWN. ADDITIONAL COVER IS REQUIRED FOR VALVE INSTALLATION CLEARANCE FOR PIPE GREATER THAN 8 INCHES IN DIAMETER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT INSTALLED PIPING UNTIL FINAL ACCEPTANCE BY F.D.E.P AND JEA.
 17. ALL WATER MAINS AND REUSE MAINS SHALL BE FLUSHED IN ACCORDANCE WITH, AND UNDER THE DIRECTION OF THE JEA.
 18. HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND REUSE MAINS AND HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND REUSE MAINS AT OTHER UTILITIES SHALL BE IN ACCORDANCE WITH JEA AND F.D.E.P. REQUIREMENTS.
 19. ALL GATE VALVES SHALL BE JEA STANDARD. VALVES SHALL BE MECHANICAL JOINT, CAST IRON, BRONZE FITTED WITH RESILIENT SEAT. ALL VALVES SHALL OPEN BY TURNING TO THE LEFT. VALVES SHALL BE RATED AT 250 PSI WORKING PRESSURE AND 500 PSI TEST PRESSURE.
 20. ALL NEW AND / OR RELOCATED WATER MAIN AND REUSE MAIN PIPE AND FITTINGS SHALL NOT CONTAIN MORE THAN EIGHT PERCENT LEAD, AND ALL PACKING AND JOINT MATERIALS USED IN THE JOINTS SHALL CONFORM WITH ALL APPLICABLE ANWW STANDARDS. ALL NEW AND / OR RELOCATED SERVICES AND PLUMBING SHALL CONTAIN NO MORE THAN EIGHT PERCENT LEAD AND ALL SOLDER AND FLUX SHALL CONTAIN NO MORE THAN 0.2 PERCENT LEAD.

- [illegible]

WATER AND SEWER LEGEND

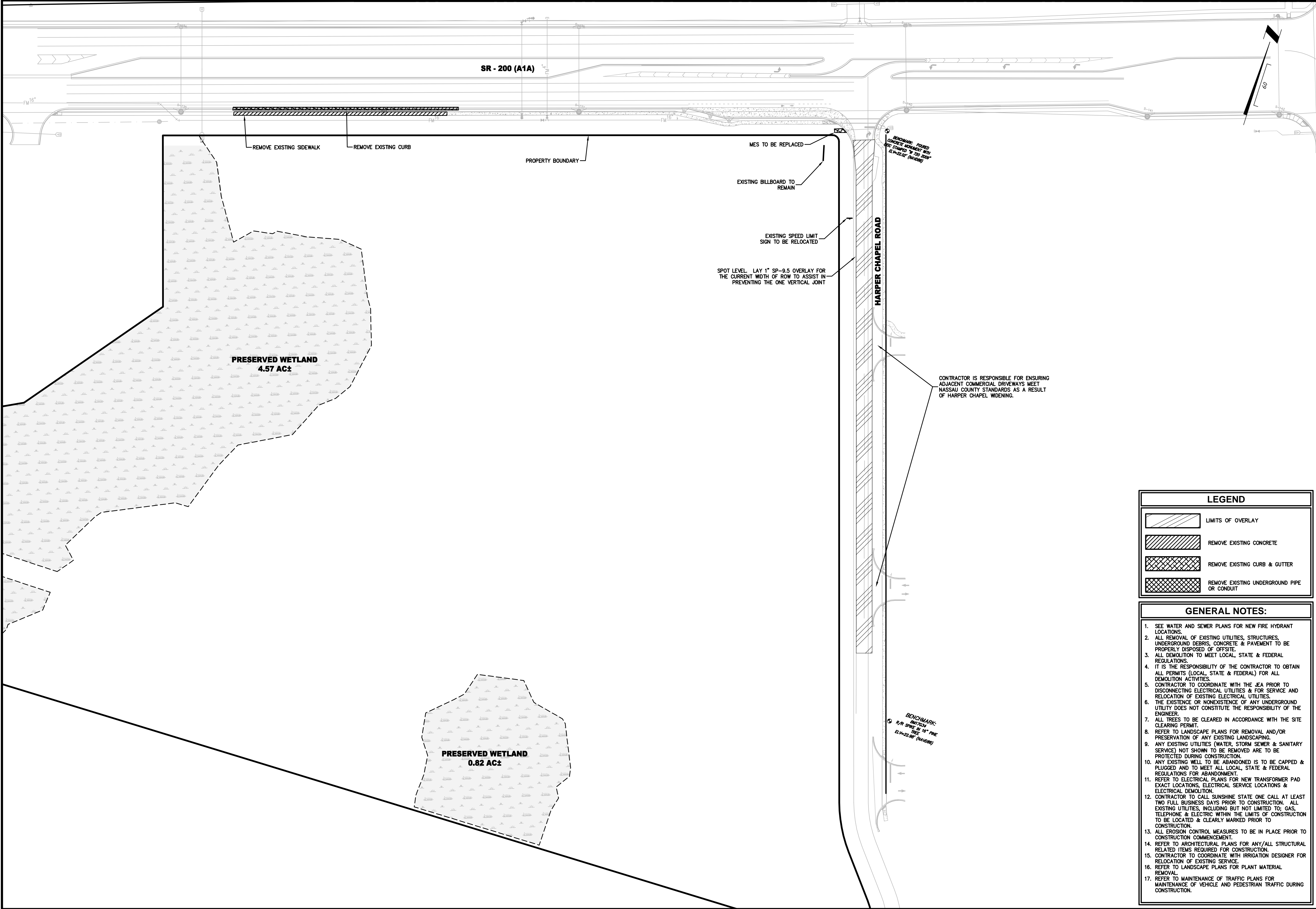
DITCH FLOW ARROWS
STRUCTURE NUMBERS
DRAINAGE AREA
SOIL BORING LOCATION
UNDERDRAIN
CONCRETE SIDEWALK
CONCRETE CURB AND GUTTER
JURISDICTIONAL WETLANDS
SILT FENCE
HAY BALES

EXISTING		PROPOSED		EXISTING		PROPOSED	
		SANITARY SEWER LINE				FIRE HYDRANT	
		SANITARY SEWER SERVICE				FLUSHING HYDRANT	
		SANITARY SEWER MANHOLE				GATE VALVE	
		CLEANOUT				REDUCER	
		FORCE MAIN				TEE	
		WATER MAIN				BEND	
		REUSE WATER MAIN				WATER METER	
		FIRE PROTECTION MAIN				BACKFLOW PREVENTER	

DRAWING NUMBER
2

LYNDSEY KELLER
DEF NUMBER: 77763

T:\2017\17-252\17-252-01 - SR 200\17-252-01-001\LandDev\Design\Plots\GEN NOTES 17-252-01-001.dwg



LEGEND

LIMITS OF OVERLAY

REMOVE EXISTING CONCRETE

REMOVE EXISTING CURB & GUTTER

REMOVE EXISTING UNDERGROUND PIPE OR CONDUIT

GENERAL NOTES:

1. SEE WATER AND SEWER PLANS FOR NEW FIRE HYDRANT LOCATIONS.

2. ALL REMOVAL OF EXISTING UTILITIES, STRUCTURES, UNDERGROUND DEBRIS, CONCRETE & PAVEMENT TO BE PROPERLY DISPOSED OF OFFSITE.

3. ALL DEMOLITION TO MEET LOCAL, STATE & FEDERAL REGULATIONS.

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS (LOCAL, STATE & FEDERAL) FOR ALL DEMOLITION ACTIVITIES.

5. CONTRACTOR TO COORDINATE WITH THE JE A PRIOR TO DISCONNECTING ELECTRICAL UTILITIES & FOR SERVICE AND RELOCATION OF EXISTING ELECTRICAL UTILITIES.

6. THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY DOES NOT CONSTITUTE THE RESPONSIBILITY OF THE ENGINEER.

7. ALL TREES TO BE CLEARED IN ACCORDANCE WITH THE SITE CLEARING PERMIT.

8. REFER TO LANDSCAPE PLANS FOR REMOVAL AND/OR PRESERVATION OF ANY EXISTING LANDSCAPING.

9. ANY EXISTING UTILITIES (WATER, STORM SEWER & SANITARY SERVICES) NOT SHOWN TO BE REMOVED ARE TO BE PROTECTED DURING CONSTRUCTION.

10. ANY EXISTING WELL TO BE ABANDONED IS TO BE CAPPED & PLUGGED AND TO MEET ALL LOCAL, STATE & FEDERAL REGULATIONS FOR ABANDONMENT.

11. REFER TO ELECTRICAL PLANS FOR NEW TRANSFORMER PAD EXACT LOCATIONS, ELECTRICAL SERVICE LOCATIONS & ELECTRICAL DEMOLITION.

12. CONTRACTOR TO CALL SUNSHINE STATE ONE CALL AT LEAST TWO FULL BUSINESS DAYS PRIOR TO CONSTRUCTION. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO; GAS, TELEPHONE & ELECTRIC WITHIN THE LIMITS OF CONSTRUCTION TO BE LOCATED & CLEARLY MARKED PRIOR TO CONSTRUCTION.

13. ALL EROSION CONTROL MEASURES TO BE IN PLACE PRIOR TO CONSTRUCTION COMMENCEMENT.

14. REFER TO ARCHITECTURAL PLANS FOR ANY/ALL STRUCTURAL RELATED ITEMS REQUIRED FOR CONSTRUCTION.

15. CONTRACTOR TO COORDINATE WITH IRRIGATION DESIGNER FOR RELOCATION OF EXISTING SERVICE.

16. REFER TO LANDSCAPE PLANS FOR PLANT MATERIAL REMOVAL.

17. REFER TO MAINTENANCE OF TRAFFIC PLANS FOR MAINTENANCE OF VEHICLE AND PEDESTRIAN TRAFFIC DURING CONSTRUCTION.

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

DRAWN BY: NEW

ENGLAND-THINS & MILLER, INC.
17501 S. W. Highway Road
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 646-9485
REG - 2584 LC - 0000316

DEMOLITION PLAN

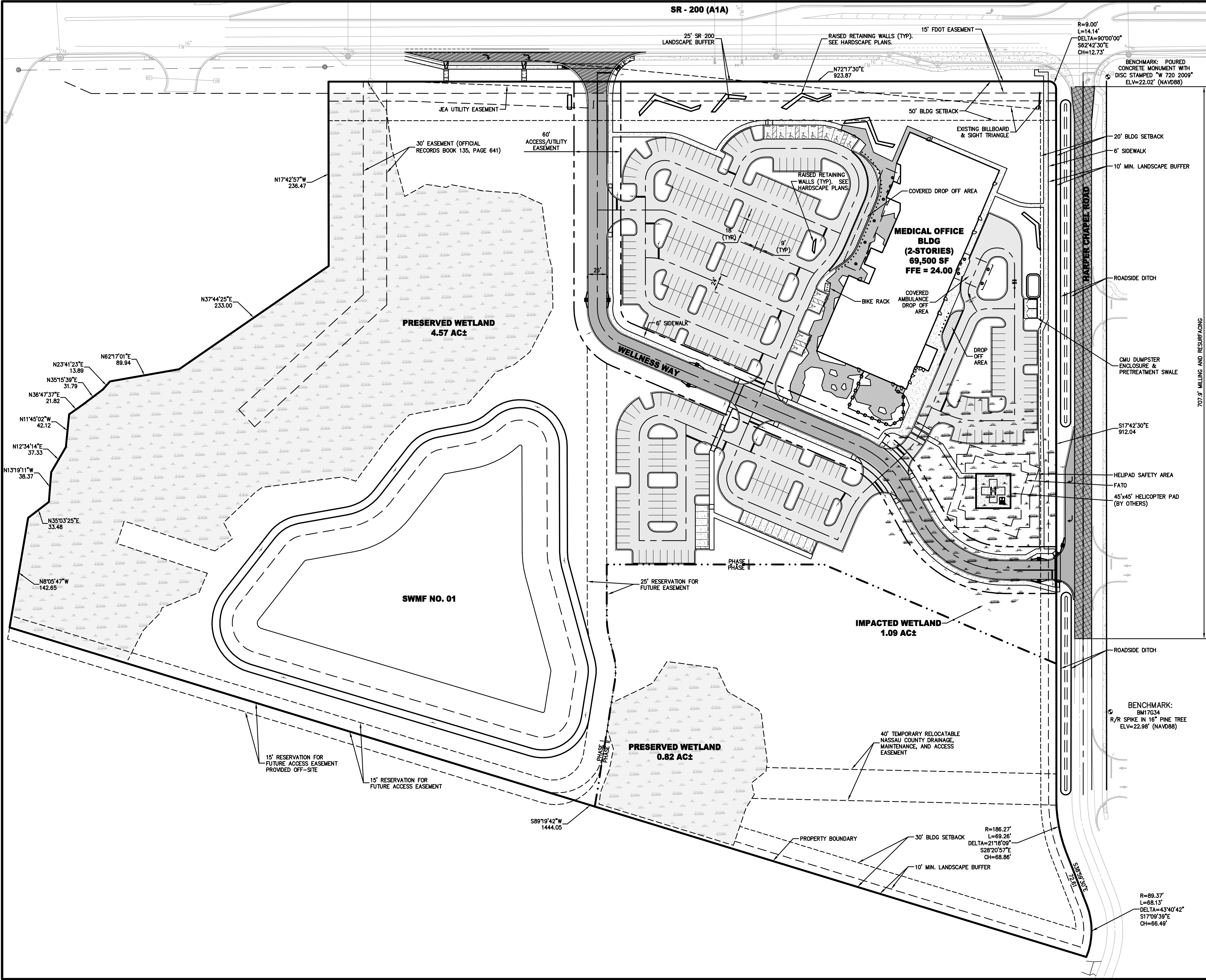
BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

3

VISION • EXPERIENCE • RESULTS

LYNDSEY KELLER
P.E. NUMBER: 77763



LEGEND	
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FOOT PAVEMENT
	LIMITS OF OVERLAY
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

DEVELOPMENT SUMMARY	
A. PROJECT NAME:	BAPTIST WEST NASSAU MEDICAL VILLAGE
B. ZONING DESIGNATION:	COMMERCIAL NEIGHBORHOOD
C. PLD. ORIGINATOR NUMBER:	N/A
D. PRELIMINARY BIND. SITE PLAN:	SP19-016
E. OWNER/DEVELOPER NAME, ADDRESS, PHONE NUMBER:	BAPTIST HEALTH PROPERTIES, INC. 1660 PRUNIAL DRIVE, SUITE 101 JACKSONVILLE, FL 32258 PHONE: (904) 642-8990
F. ENGINEER NAME, ADDRESS, PHONE NUMBER:	LYNDSEY KELLER, P.E. ENGLAND-THINS & MILLER, INC. 14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32258 PHONE: (904) 642-8990
G. DATA SUMMARY:	1. TOTAL AREA: PHASE 1: 19.44 AC 2. TOTAL SITE AREA: 24.60 AC 3. SQUARE FOOTAGE OF BUILDING: 69,500 SF 4. TOTAL IMPERVIOUS AREA: 9.92 AC (58%) 5. REAL ESTATE NUMBER: 44-2N-27-0000-0001-0090 6. BUILDING HEIGHT: 6.1. ALLOWED: 35' 7. BUILDING SETBACK: 7.1. FRONT: 25' 7.2. SIDE: 20' 7.3. REAR: 20'
H. SITE DESCRIPTION:	1. VEGETATION: GRASSED FIELD. 2. DRAINAGE: SITE DRAINS TO PREVIOUSLY PERMITTED SWMF NO. 1 ON SW SIDE OF PROPERTY. 3. WETLANDS: ON-SITE 4. FEMA FLOOD ZONE: X I. UTILITY SERVICES: 1. SEWAGE TREATMENT: JEA 2. WATER SUPPLY: JEA 3. ELECTRICITY: JEA

LEGAL DESCRIPTION	
A PARCEL OF LAND SITUATE IN SECTION 44, TOWNSHIP 2 NORTH, RANGE 27 EAST, NASSAU COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR A POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 44, THENCE NORTH 89° 19' 51" EAST, ALONG THE SOUTH LINE OF SAID SECTION 44, A DISTANCE OF 915.28 FEET TO A CONCRETE MONUMENT IN THE CENTERLINE OF MENTORIA ROAD (A 66 FEET RIGHT OF WAY) AS NOW Laid OUT AND IN USE; THENCE NORTH 89° 19' 42" EAST, CONTINUING ALONG THE SOUTH LINE OF SAID SECTION 44, A DISTANCE OF 30.58 FEET TO THE POINT OF BEGINNING; THENCE NORTH 09° 05' 47" WEST, A DISTANCE OF 142.65 FEET TO THE SOUTHEAST CORNER OF "FLASH FOODS" AS SHOWN ON THE SITE PLAN PREPARED BY ESMAN & RUSSO, INC.; THENCE NORTHERLY ALONG THE EASTERLY BOUNDARY OF SAID "FLASH FOODS" THE FOLLOWING SEVEN COURSES: 1) NORTH 35° 03' 28" EAST, A DISTANCE OF 33.46 FEET; 2) NORTH 13° 19' 11" WEST, A DISTANCE OF 38.37 FEET; 3) NORTH 12° 34' 14" EAST, A DISTANCE OF 37.33 FEET; 4) NORTH 11° 45' 02" WEST, A DISTANCE OF 42.12 FEET; 5) NORTH 36° 47' 37" EAST, A DISTANCE OF 21.82 FEET; 6) NORTH 35° 15' 30" EAST, A DISTANCE OF 31.79 FEET; 7) NORTH 23° 41' 23" EAST, A DISTANCE OF 13.89 FEET TO THE SOUTHEAST BOUNDARY OF LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 843, PAGES 733 THROUGH 736, OF THE PUBLIC RECORDS OF NASSAU COUNTY, FLORIDA; THENCE ALONG THE PERIMETER OF LAST SAID LANDS THE FOLLOWING THREE COURSES: 1) NORTH 62° 17' 01" EAST, A DISTANCE OF 89.94 FEET; 2) NORTH 37° 44' 28" EAST, A DISTANCE OF 233.00 FEET; NORTH 17° 42' 57" WEST, A DISTANCE OF 236.47 FEET TO THE SOUTHERLY RIGHT OF WAY LINE OF STATE ROAD NO. 200 (A/A); THENCE NORTH 72° 17' 30" EAST, ALONG SAID SOUTHERLY RIGHT OF WAY LINE, A DISTANCE OF 832.87 FEET TO THE WESTERLY RIGHT OF WAY LINE OF HARPER CHAPEL ROAD (A 60 FEET RIGHT OF WAY) AS NOW Laid OUT AND IN USE; THENCE SOUTH 17° 42' 30" EAST, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 821.12 FEET TO THE BEGINNING OF A CURVE CONCAVE TO THE NORTHEAST HAVING A RADIUS OF 186.27 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE AND ALONG THE WESTERLY RIGHT OF WAY LINE OF SAID HARPER CHAPEL ROAD, THROUGH A CENTRAL ANGLE OF 217°28" AND ARC DISTANCE OF 68.22 FEET AND BEING SUBTENDED BY A CHORD BEARING SOUTH 28° 20' 57" EAST, A DISTANCE OF 68.82 FEET; THENCE SOUTH 38° 58' 30" EAST, ALONG THE WESTERLY RIGHT OF WAY LINE OF SAID HARPER CHAPEL ROAD, A DISTANCE OF 72.82 FEET TO THE BEGINNING OF A CURVE CONCAVE TO THE SOUTHWEST HAVING A RADIUS OF 68.37 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE AND ALONG THE WESTERLY RIGHT OF WAY LINE OF SAID HARPER CHAPEL ROAD, THROUGH A CENTRAL ANGLE OF 43° 40' 05" AND ARC DISTANCE OF 68.12 FEET AND BEING SUBTENDED BY A CHORD BEARING SOUTH 17° 09' 39" EAST, A DISTANCE OF 68.48 FEET TO INTERSECT THE SOUTH LINE OF SAID SECTION 44; THENCE SOUTH 89° 19' 42" WEST, A DISTANCE OF 1,444.05 FEET TO THE POINT OF BEGINNING. DESCRIPTION HEREON AS FURNISHED.	

PARKING REQUIREMENTS	
OFF-STREET PARKING REQUIREMENTS: ** PER NASSAU COUNTY SECTION 31.12(E)(1) 1-SPACE PER EACH DOCTOR 1-SPACE PER EACH 2 EMPLOYEES 1.5-SPACES PER EACH CONSULTATION/EXAMINING ROOM (1-SPACE)(69,500-SF)(1-PHYSICIAN/2,000-SF) = 34.75-SPACES (1-SPACE)(5-EMPLOYEES/1-PHYSICIAN)/2 = 87.5-SPACES (1.5-SPACES)(6-PODS)(4-EXAM ROOMS/POD) = 36-SPACES REQUIRED: 159-SPACES PROVIDED: 319-SPACES (INCLUDES 12 HC SPACES)	
ACCESSIBLE PARKING REQUIREMENTS: ** PER FLORIDA STATUTE 316.1955 & 316.1956 ** PER ADAAG 208.2 TOTAL PARKING IN LOT: 201-300 REQUIRED ACCESSIBLE SPACES: 7 301-400 8 401-500 9 REQUIRED = 8 SPACES PROVIDED = 12 SPACES	

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.

14775 Old St. Augustine Road
Jacksonville, FL 32258

TEL: (904) 642-8990
FAX: (904) 646-9485

REG - 2584 LC - 0000316

MASTER SITE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

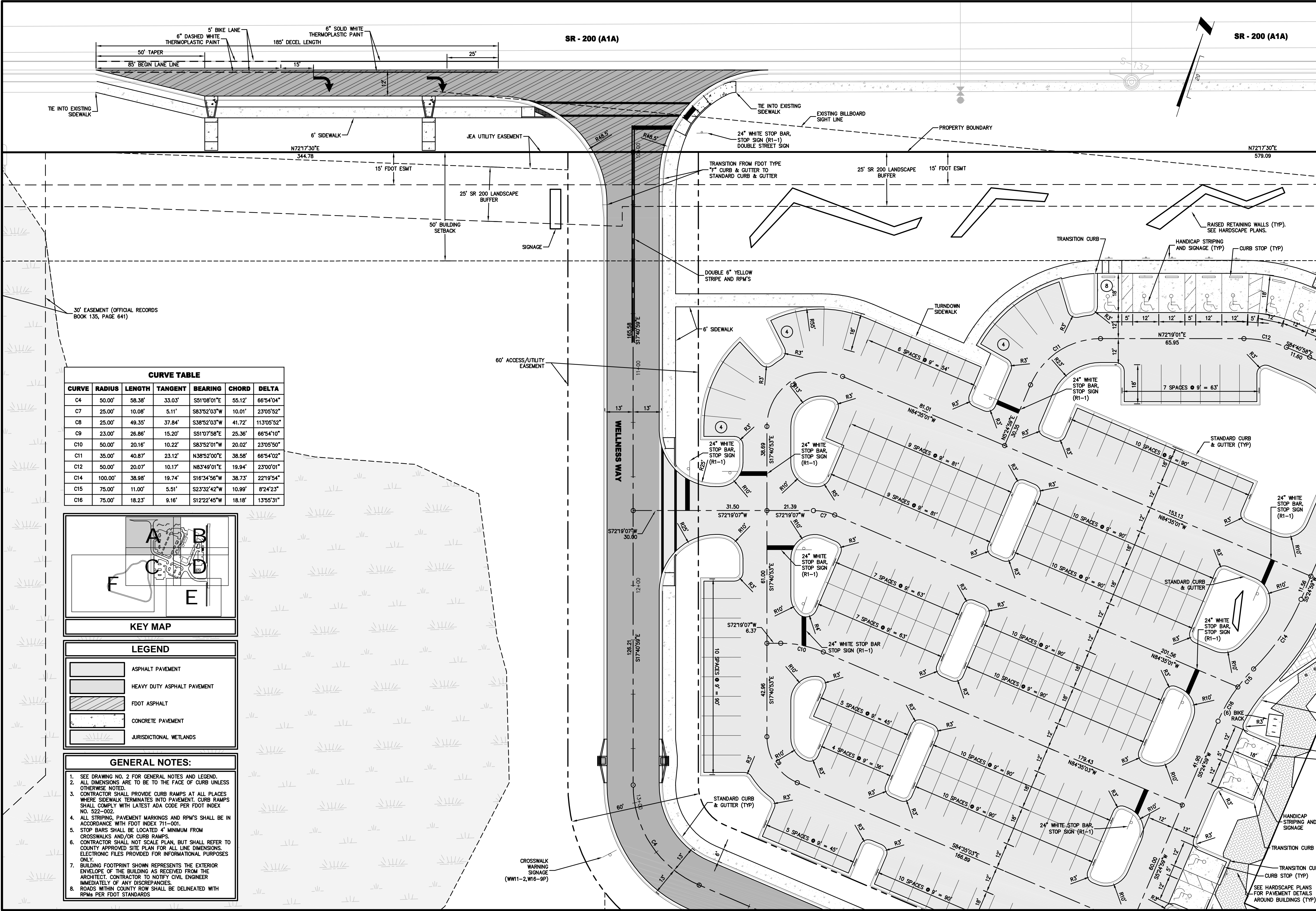
DRAWING NUMBER

4

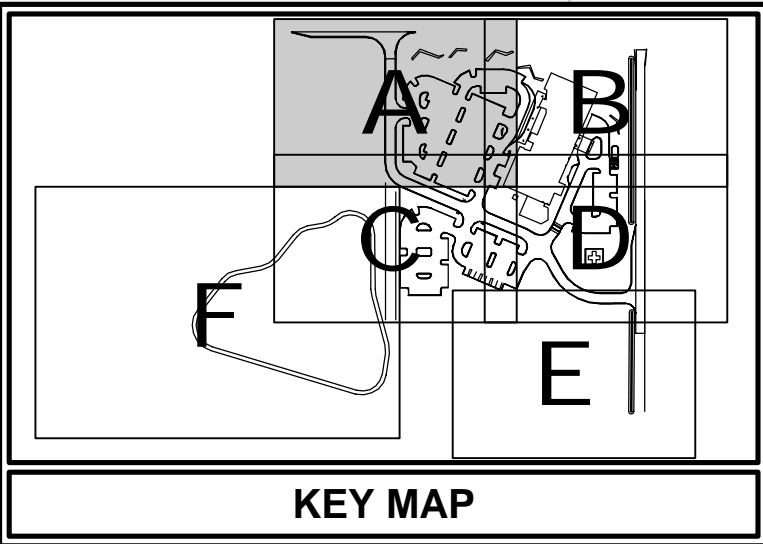
VISION • EXPERIENCE • RESULTS

LYNDSEY KELLER
P.E. NUMBER: 77763

PLOTTED: April 16, 2021 - 9:31 AM BY: CAD Test



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C4	50.00'	58.38'	33.03'	S51°08'01"E	55.12'	66°54'04"
C7	25.00'	10.08'	5.11'	S83°52'03"W	10.01'	23°05'52"
C8	25.00'	49.35'	37.84'	S38°52'03"W	41.72'	113°05'52"
C9	23.00'	26.86'	15.20'	S51°07'58"E	25.36'	66°54'10"
C10	50.00'	20.16'	10.22'	S83°52'01"W	20.02'	23°05'50"
C11	35.00'	40.87'	23.12'	N38°52'00"E	38.58'	66°54'02"
C12	50.00'	20.07'	10.17'	N83°49'01"E	19.94'	23°00'01"
C14	100.00'	38.98'	19.74'	S16°34'56"W	38.73'	22°19'54"
C15	75.00'	11.00'	5.51'	S23°32'42"W	10.99'	8°24'23"
C16	75.00'	18.23'	9.16'	S12°22'45"W	18.18'	13°55'31"



LEGEND	
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- GENERAL NOTES:**
- SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
 - ALL DIMENSIONS ARE TO BE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH LATEST ADA CODE PER FDOT INDEX NO. 522-002.
 - ALL STRIPING, PAVEMENT MARKINGS AND RPM'S SHALL BE IN ACCORDANCE WITH FDOT INDEX 711-001.
 - STOP BARS SHALL BE LOCATED 4' MINIMUM FROM CROSSWALKS AND/OR CURB RAMPS.
 - CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO COUNTY APPROVED SITE PLAN FOR ALL LINE DIMENSIONS. ELECTRONIC FILES PROVIDED FOR INFORMATIONAL PURPOSES ONLY.
 - BUILDING FOOTPRINT SHOWN REPRESENTS THE EXTERIOR ENVELOPE OF THE BUILDING AS RECEIVED FROM THE ARCHITECT. CONTRACTOR TO NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - ROADS WITHIN COUNTY ROW SHALL BE DELINEATED WITH RPM'S PER FDOT STANDARDS.

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.

17500 S.W. 11th Street, Suite 200

Jacksonville, FL 32228

TEL: (904) 642-8890

FAX: (904) 646-9485

REG - 2584 LC - 0000316

ETM

VISION • EXPERIENCE • RESULTS

SITE GEOMETRY PLAN

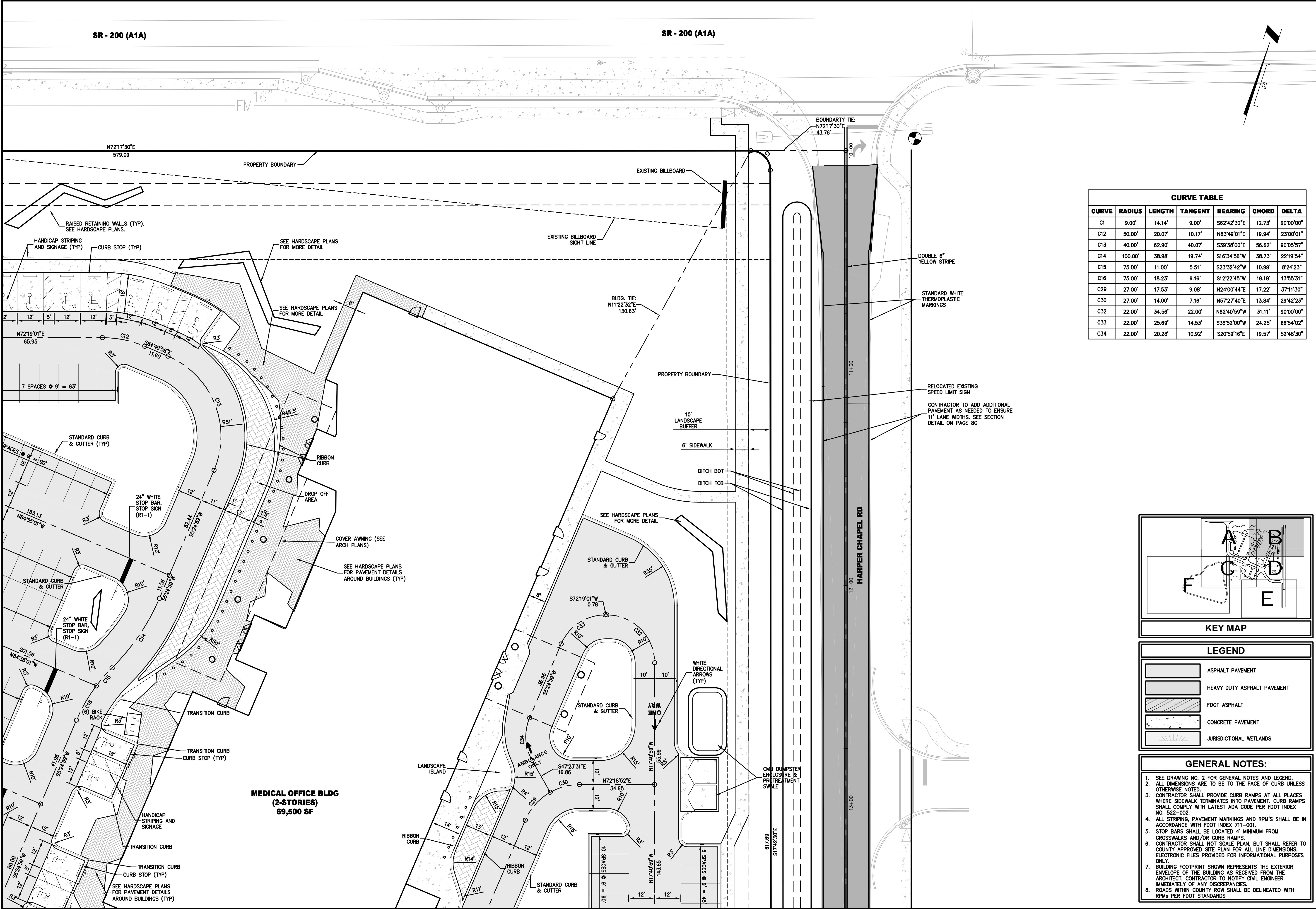
BAPTIST WEST NASSAU MEDICAL VILLAGE

FOR

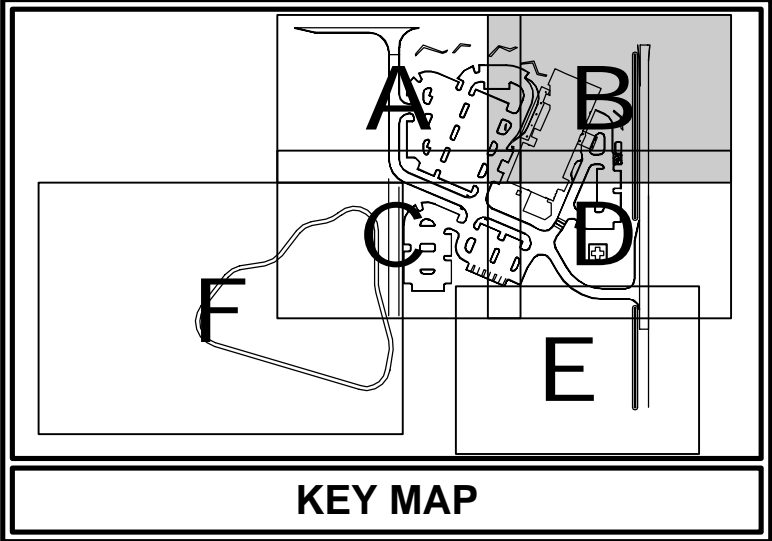
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

5A



CURVE TABLE							
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA	
C1	9.00'	14.14'	9.00'	S62°42'30"E	12.73'	90°00'00"	
C12	50.00'	20.07'	10.17'	N83°49'01"E	19.94'	23°00'01"	
C13	40.00'	62.90'	40.07'	S39°38'00"E	56.62'	90°05'57"	
C14	100.00'	38.98'	19.74'	S16°34'56"W	38.73'	22°19'54"	
C15	75.00'	11.00'	5.51'	S23°32'42"W	10.99'	8°24'23"	
C16	75.00'	18.23'	9.16'	S12°22'45"W	18.18'	13°55'31"	
C29	27.00'	17.53'	9.08'	N24°00'44"E	17.22'	37°11'30"	
C30	27.00'	14.00'	7.16'	N57°27'40"E	13.84'	29°42'23"	
C32	22.00'	34.56'	22.00'	N62°40'59"W	31.11'	90°00'00"	
C33	22.00'	25.69'	14.53'	S38°52'00"W	24.25'	66°54'02"	
C34	22.00'	20.28'	10.92'	S20°59'16"E	19.57'	52°48'30"	



LEGEND	
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- GENERAL NOTES:**
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 - BUILDING FOOTPRINT SHOWN REPRESENTS THE EXTERIOR ENVELOPE OF THE BUILDING AS RECEIVED FROM THE ARCHITECT. CONTRACTOR TO NOTIFY CIVIL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - ROADS WITHIN COUNTY ROW SHALL BE DELINEATED WITH RPMs PER FDOT STANDARDS

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.

17501 St. Augustine Road

Jacksonville, FL 32228

TEL: (904) 642-8890

FAX: (904) 646-9485

REG - 2584 LC - 0000316

ETM

VISION • EXPERIENCE • RESULTS

SITE GEOMETRY PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE

FOR

BAPTIST HEALTH PROPERTIES, INC.

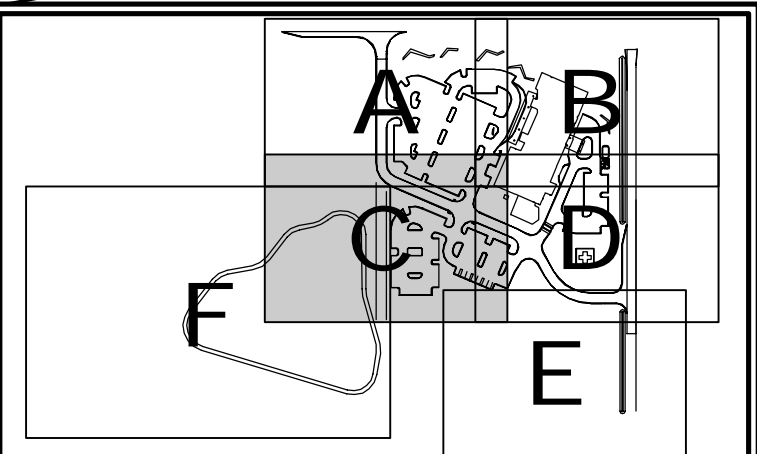
DRAWING NUMBER

5B

CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C4	50.00'	58.38'	33.03'	S51°08'01"E	55.12'	66°54'04"
C9	23.00'	26.86'	15.20'	S51°07'58"E	25.36'	66°54'10"
C17	27.00'	42.41'	27.00'	S39°35'04"E	38.18'	89°59'57"
C24	27.00'	53.30'	40.87'	S38°52'02"W	45.06'	113°05'50"

"NO SWIMMING" SIGN NO
LARGER THAN 2-SQ. FT.
200-FT. APART

25' RESERVATION
FOR FUTURE
EASEMENT



KEY MAP

LEGEND

	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

GENERAL NOTES:

- SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
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- ROADS WITHIN COUNTY ROW SHALL BE DELINEATED WITH RPMs PER FDOT STANDARDS

SWMF NO. 1

TOB EL. = 23.50 (2.98 AC.)
NWL EL. = 19.50 (2.46 AC.)
BOT. EL. = 11.50 (1.54 AC.)

DHW (100 yr) EL. = 22.72
DHW (25 yr) EL. = 22.16
DHW (5 yr) EL. = 21.63
DHW (Mean) EL. = 21.21

CROSSWALK
WARNING
SIGNAGE
(WW11-2, W16-9P)

STANDARD CURB
& GUTTER (TYP)

CROSSWALK
WARNING
SIGNAGE
(WW11-2, W16-9P)

24" WHITE STOP BAR,
STOP SIGN (R1-1)

WELLNESS WAY

SITE GEOMETRY PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

5C

England-Thins & Miller, Inc.
17501 S.W. 11th Street
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 642-9485
REG. 2584 LC 0000316

ETM
VISION • EXPERIENCE • RESULTS

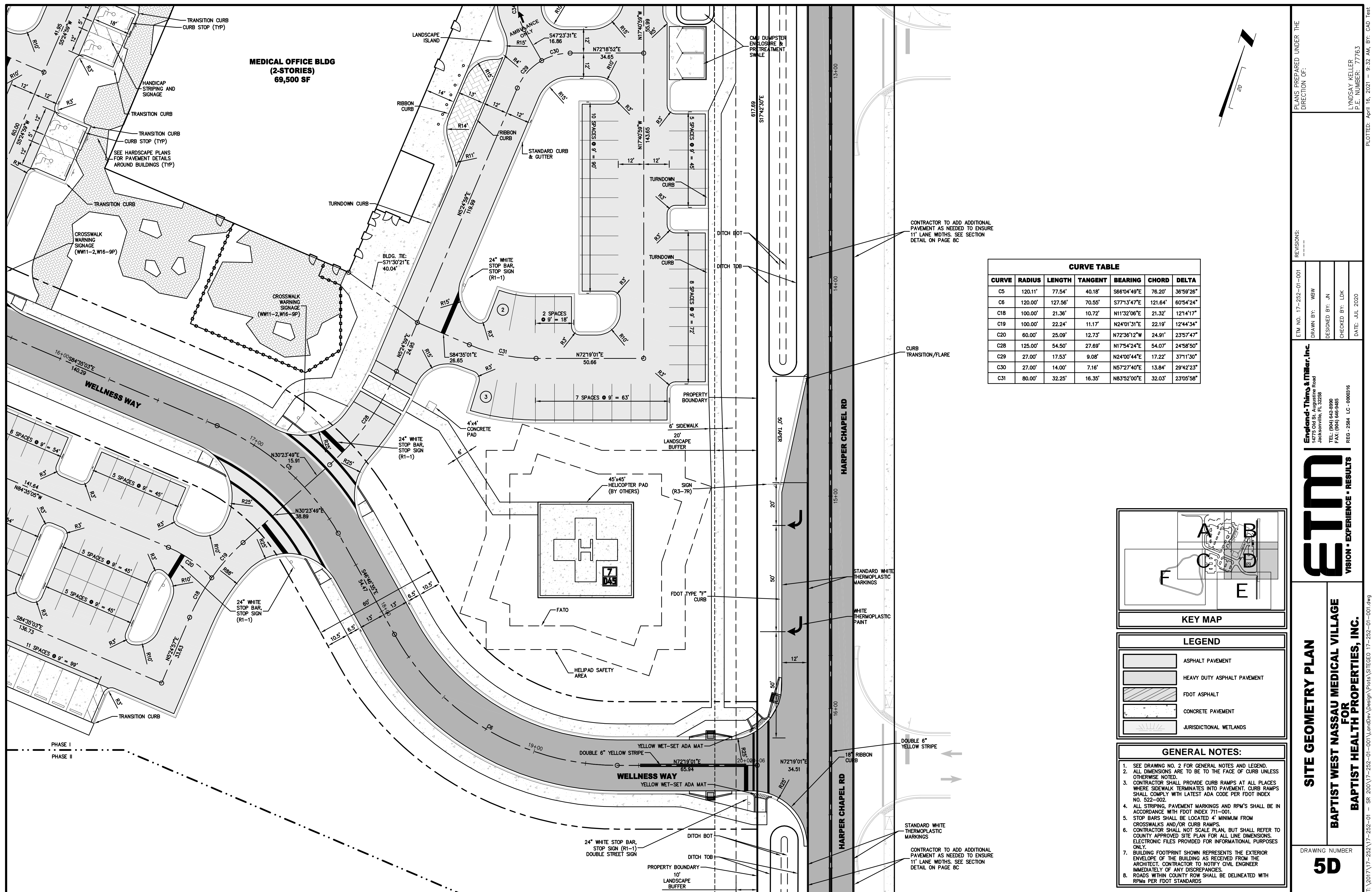
ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

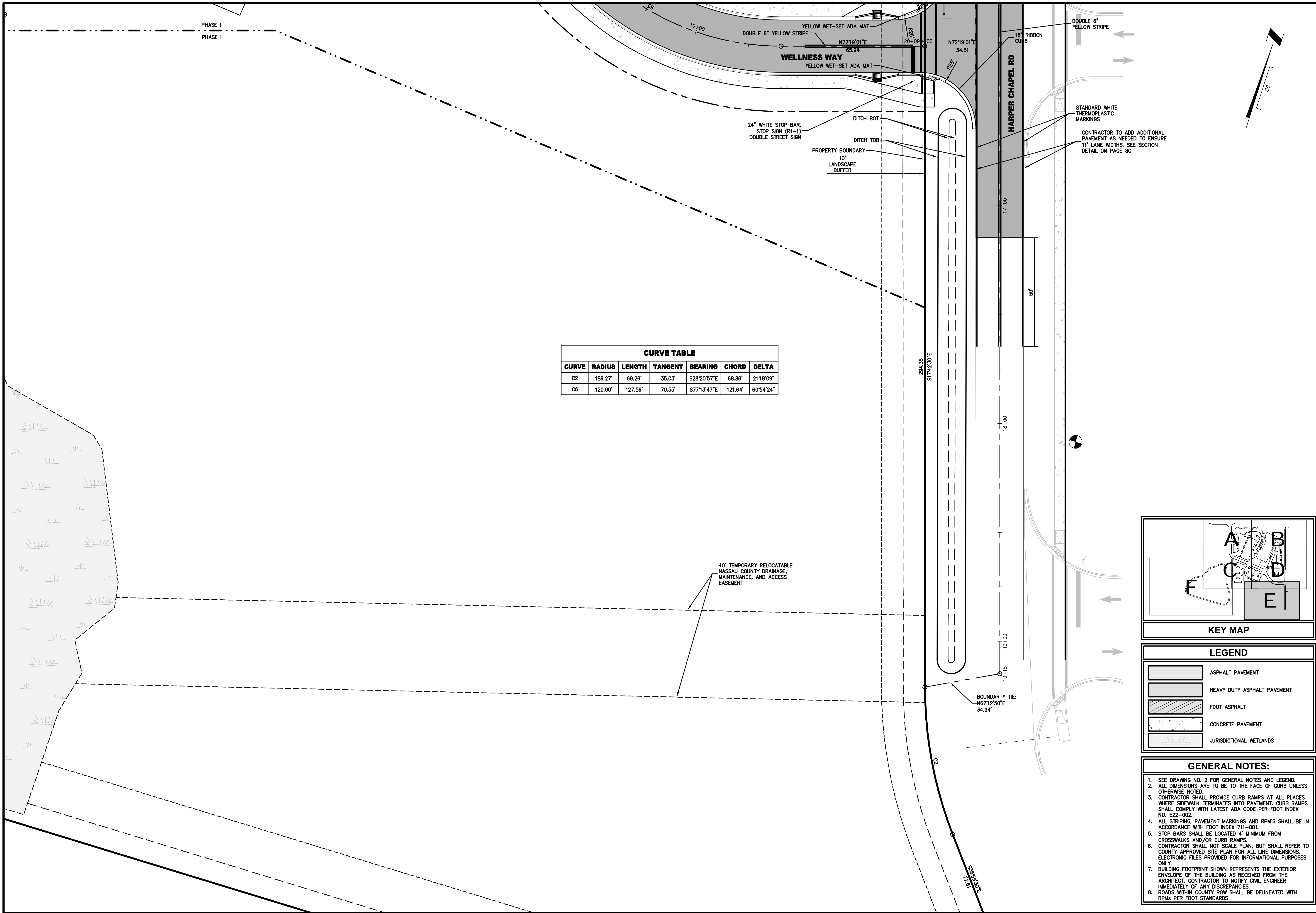
PLANS PREPARED UNDER THE
DIRECTION OF:

LYNDSEY KELLER
P.E. NUMBER: 77763

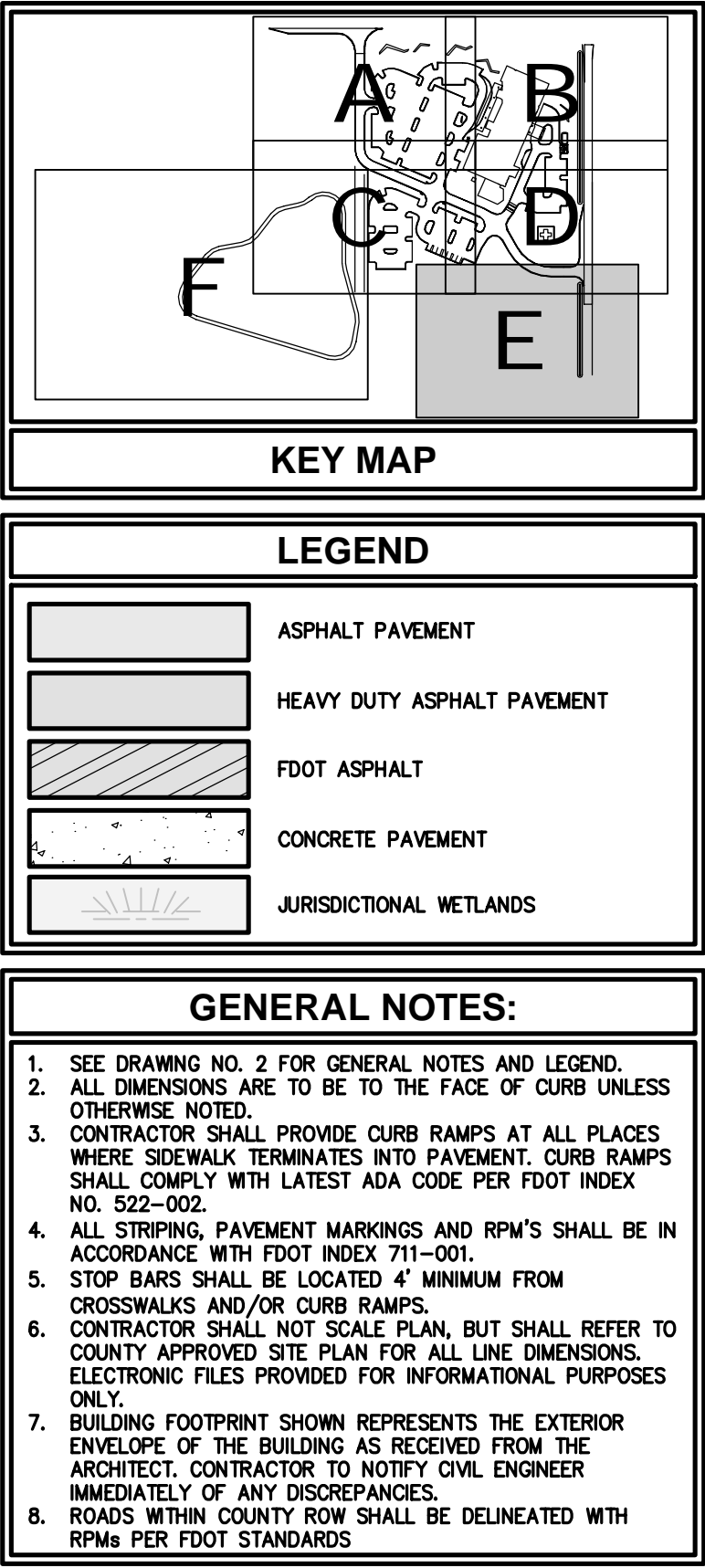
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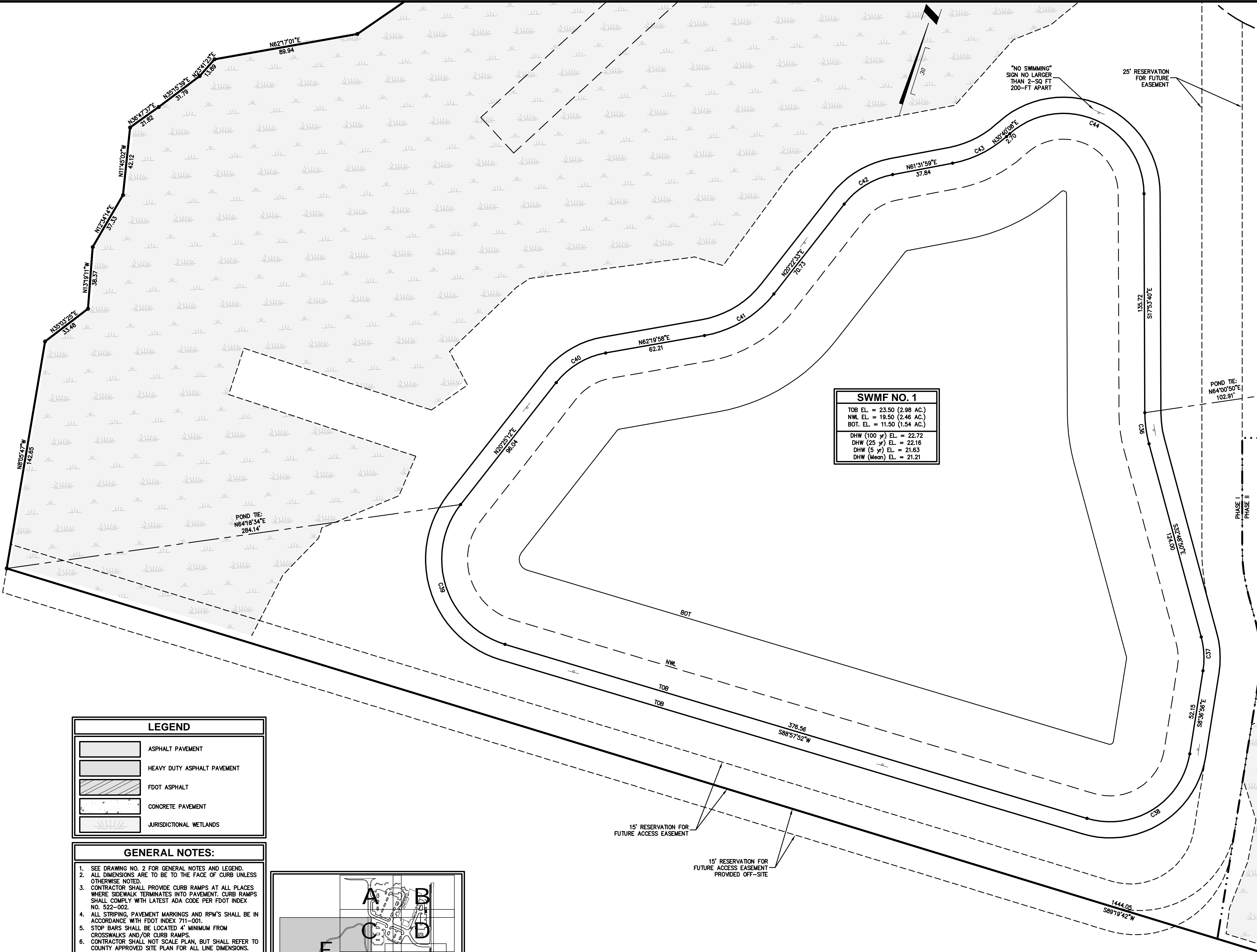




CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	BEARING	CHORD	DELTA
C2	186.27'	69.26'	35.03'	S28°20'57"E	68.86'	21°18'09"
C6	120.00'	127.56'	70.55'	S77°13'47"E	121.64'	60°54'24"



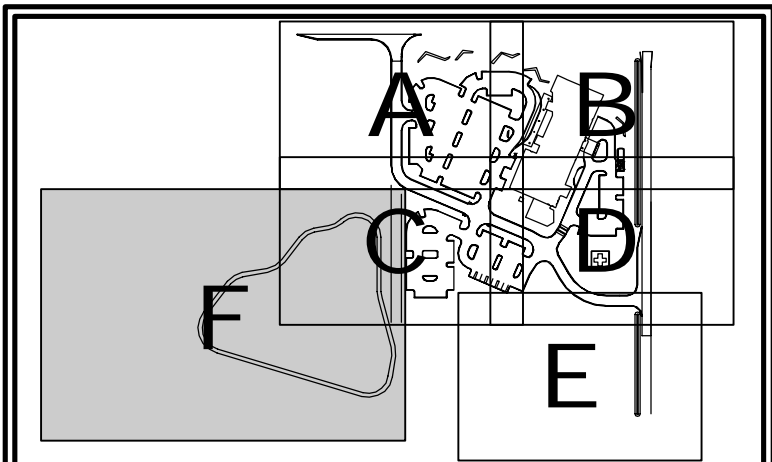
<p>SITE GEOMETRY PLAN</p>		<p>ETM NO. 17-252-01-001</p>		<p>REVISIONS: -----</p>		<p>PLANS PREPARED UNDER THE DIRECTION OF:</p>	
<p>BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.</p>		<p>England-Thoms & Miller, Inc. 14775 Old St. Augustine Road Jacksonville, FL 32228 TEL: (904) 642-8890 FAX: (904) 646-9485 REG - 2384 LC - 0000316</p>		<p>DRAWN BY: WBW</p>		<p>LYNDAY KELLER P.E. NUMBER: 77763</p>	
		<p>ETM</p>		<p>DESIGNED BY: JN</p>			
		<p>VISION • EXPERIENCE • RESULTS</p>		<p>CHECKED BY: LDK</p>			
				<p>DATE: JUL 2020</p>			
<p>DRAWING NUMBER</p>		<p>5E</p>					



SWMF NO. 1	
TOB EL. = 23.50 (2.98 AC.)	
NWL EL. = 19.50 (2.46 AC.)	
BOT. EL. = 11.50 (1.54 AC.)	
DHW (100 yr) EL. = 22.72	
DHW (25 yr) EL. = 22.16	
DHW (5 yr) EL. = 21.63	
DHW (Mean) EL. = 21.21	

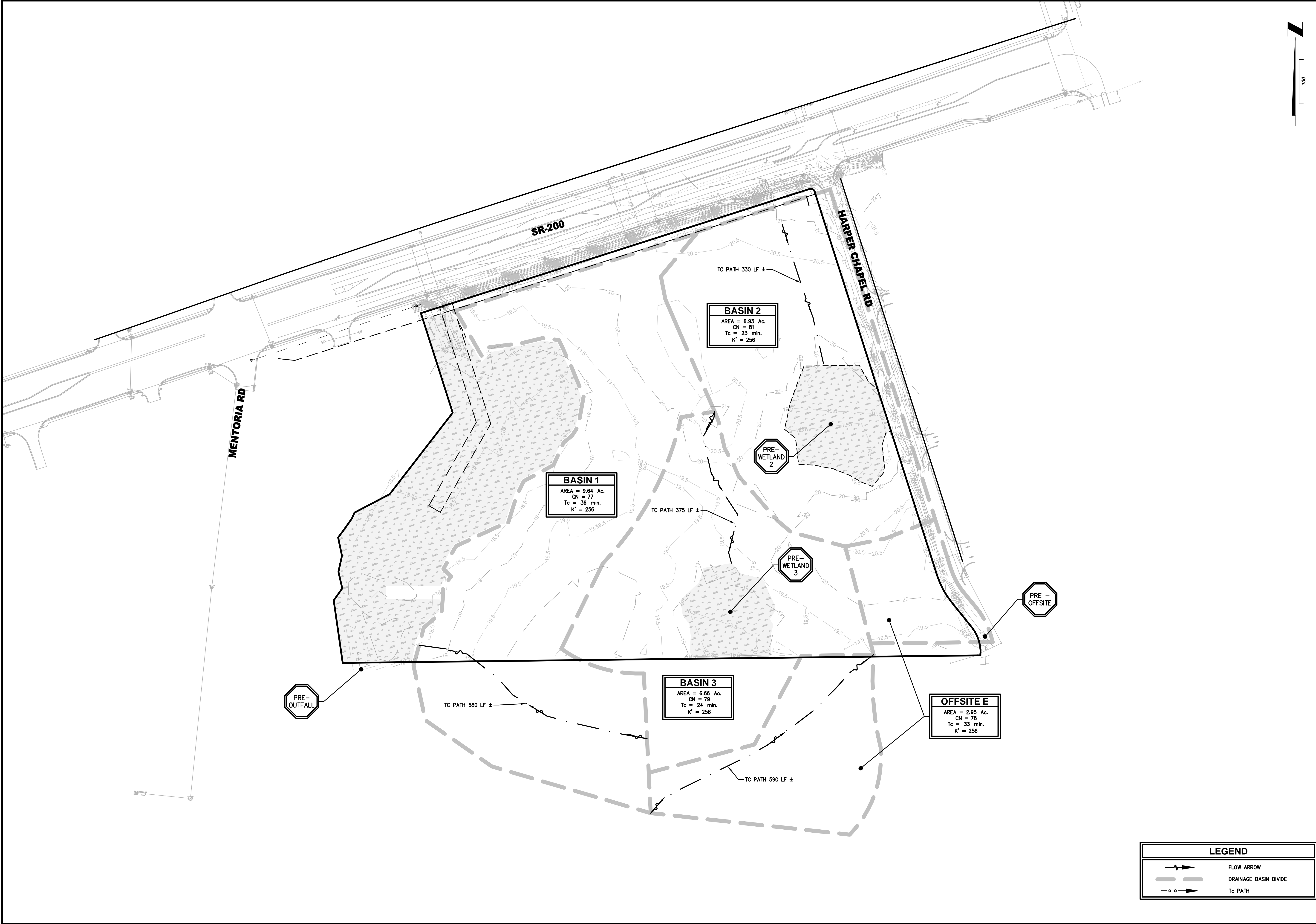
LEGEND	
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- GENERAL NOTES:**
- SEE DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
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 - CONTRACTOR SHALL PROVIDE CURB RAMPS AT ALL PLACES WHERE SIDEWALK TERMINATES INTO PAVEMENT. CURB RAMPS SHALL COMPLY WITH LATEST ADA CODE PER FDOT INDEX NO. 522-002.
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 - ROADS WITHIN COUNTY ROW SHALL BE DELINEATED WITH RPMs PER FDOT STANDARDS



KEY MAP

ETM VISION • EXPERIENCE • RESULTS		England-Thins & Miller, Inc. 17501 S.W. 11th Street Jacksonville, FL 32228 TEL: (904) 642-8890 FAX: (904) 646-9485 REG - 2584 LC - 0000316		REVISIONS: ETM NO. 17-252-01-001 DRAWN BY: NEW DESIGNED BY: JN CHECKED BY: LDK DATE: JUL 2020	PLANS PREPARED UNDER THE DIRECTION OF: LYNDSEY KELLER P.E. NUMBER: 77763
SITE GEOMETRY PLAN		BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.		DRAWING NUMBER 5F	



PRE DEVELOPMENT DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

ETM

VISION • EXPERIENCE • RESULTS

England • Thins & Miller, Inc.

17500 St. Johns River Road
Jensen Beach, FL 33428
TEL: (804) 642-8890
FAX: (804) 646-9485
REG - 2584 LC - 0000316

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

PLANS PREPARED UNDER THE
DIRECTION OF:

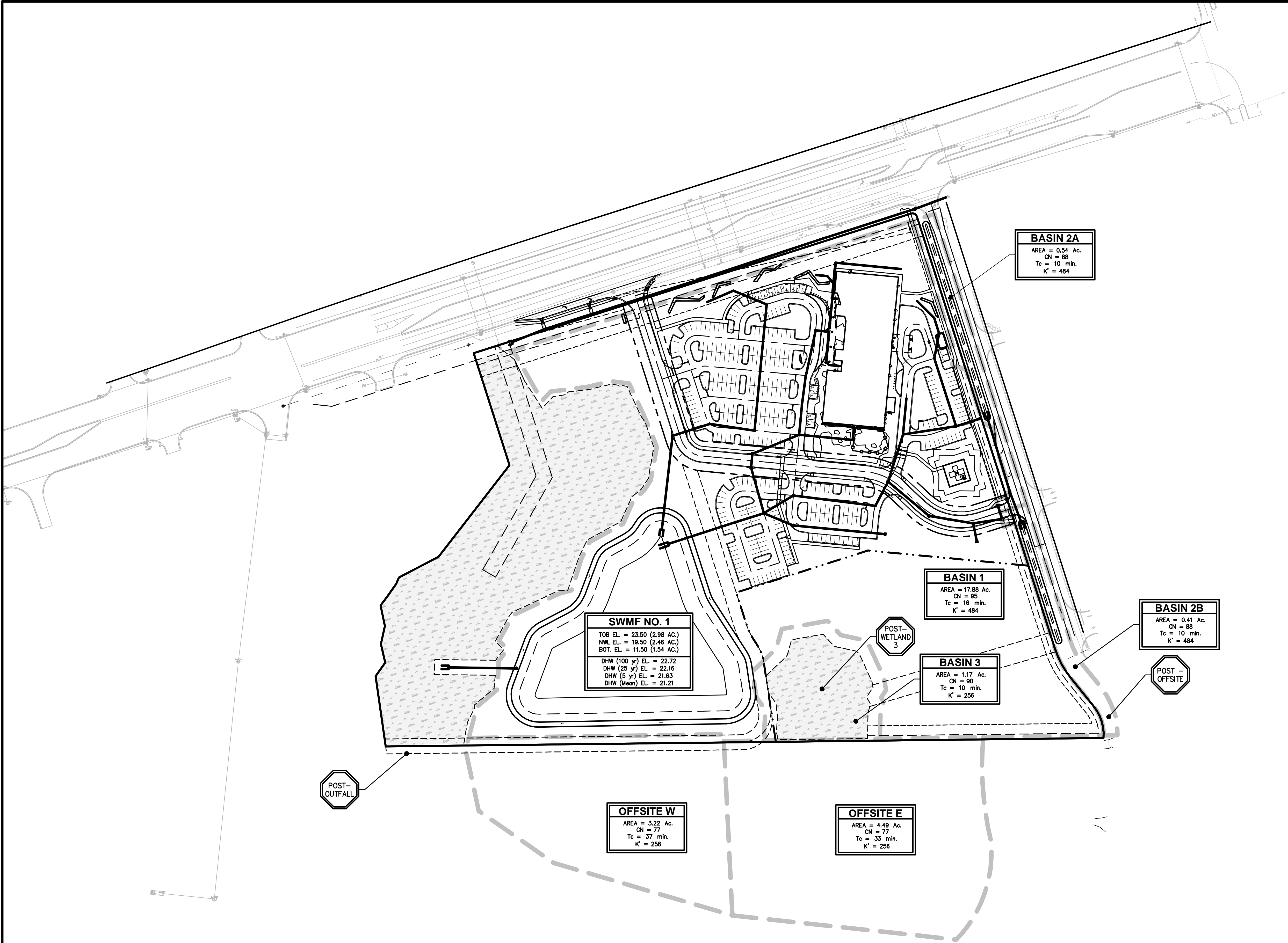
LYNDSEY KELLER
P.E. NUMBER: 77763

DRAWING NUMBER

6

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LEGEND	
	DRAINAGE DIVIDE LINE
	DRAINAGE SUB-DIVIDE LINE
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- GENERAL NOTES:**
- SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.
 - 2'-6" 20' UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
 - ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
 - SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.
A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%)
B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)
C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
 - CONTRACTOR RESPONSIBLE FOR NOTIFYING CITY FOR ALL/ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.
 - CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAT FOR ALL HORIZONTAL LINE DIMENSIONS.
 - ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE. REFER TO DRAWINGS 7A - ## FOR PAVING AND DRAINAGE DETAILS.
 - UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT
 - SEED AND MULCH ALL DISTURBED AREAS.

POST DEVELOPMENT DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

7



ETM
VISION • EXPERIENCE • RESULTS

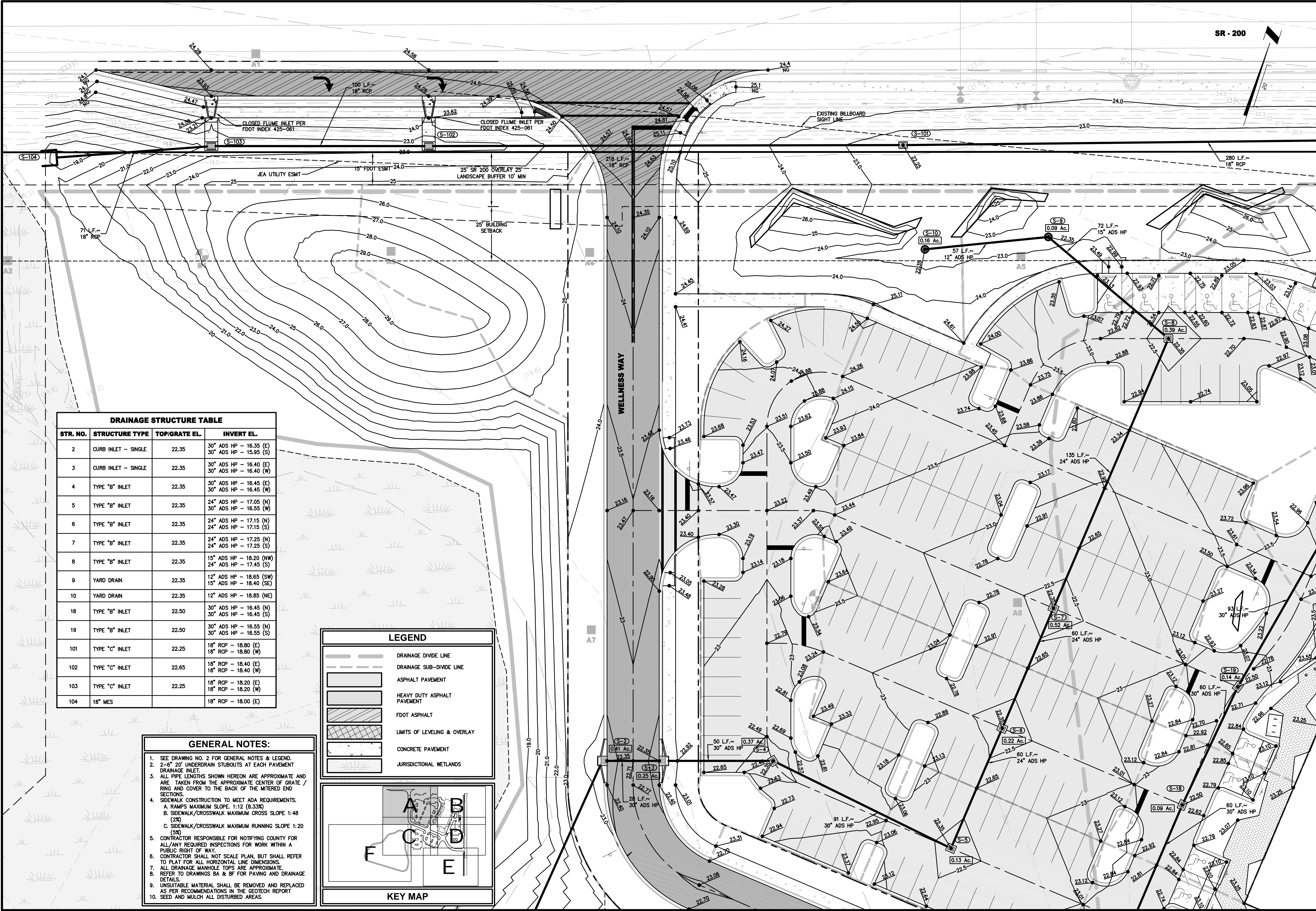
England-Thins & Miller, Inc.
17501 S. W. 11th Street, Suite 200
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 642-9485
REG - 2584 LC - 0000316

ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

REVISIONS:

PLANS PREPARED UNDER THE DIRECTION OF:

LYNDSEY KELLER
P.E. NUMBER: 77763



DRAINAGE STRUCTURE TABLE			
STR. NO.	STRUCTURE TYPE	TOP/GRATE EL.	INVERT EL.
2	CURB INLET - SINGLE	22.35	30" ADS HP - 16.35 (E) 30" ADS HP - 15.95 (S)
3	CURB INLET - SINGLE	22.35	30" ADS HP - 16.40 (E) 30" ADS HP - 16.40 (W)
4	TYPE "B" INLET	22.35	30" ADS HP - 16.45 (E) 30" ADS HP - 16.45 (W)
5	TYPE "B" INLET	22.35	24" ADS HP - 17.05 (W) 30" ADS HP - 16.55 (W)
6	TYPE "B" INLET	22.35	24" ADS HP - 17.15 (N) 24" ADS HP - 17.15 (S)
7	TYPE "B" INLET	22.35	24" ADS HP - 17.25 (N) 24" ADS HP - 17.25 (S)
8	TYPE "B" INLET	22.35	15" ADS HP - 18.20 (NW) 24" ADS HP - 17.45 (S)
9	YARD DRAIN	22.35	12" ADS HP - 18.65 (SW) 15" ADS HP - 18.40 (SE)
10	YARD DRAIN	22.35	12" ADS HP - 18.85 (NE)
18	TYPE "B" INLET	22.50	30" ADS HP - 16.45 (N) 30" ADS HP - 16.45 (S)
19	TYPE "B" INLET	22.50	30" ADS HP - 16.55 (N) 30" ADS HP - 16.55 (S)
101	TYPE "C" INLET	22.25	18" RCP - 18.80 (E) 18" RCP - 18.80 (W)
102	TYPE "C" INLET	22.65	18" RCP - 18.40 (E) 18" RCP - 18.40 (W)
103	TYPE "C" INLET	22.25	18" RCP - 18.20 (E) 18" RCP - 18.20 (W)
104	18" MES		18" RCP - 18.00 (E)

- GENERAL NOTES:**
- SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.
 - 2'-6" 20' UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
 - ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
 - SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.
A. RAMPS MAXIMUM SLOPE, 1:12 (8.33%)
B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)
C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
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 - UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT
 - SEED AND MULCH ALL DISTURBED AREAS.

LEGEND

- DRAINAGE DIVIDE LINE
- DRAINAGE SUB-DIVIDE LINE
- ASPHALT PAVEMENT
- HEAVY DUTY ASPHALT PAVEMENT
- FDOT ASPHALT
- LIMITS OF LEVELING & OVERLAY
- CONCRETE PAVEMENT
- JURISDICTIONAL WETLANDS

KEY MAP

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.
10001 S. W. 10th Avenue, Suite 100
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 646-9485
REG - 2584 LC - 0000316

ETM
VISION • EXPERIENCE • RESULTS

PAVING AND DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE

FOR

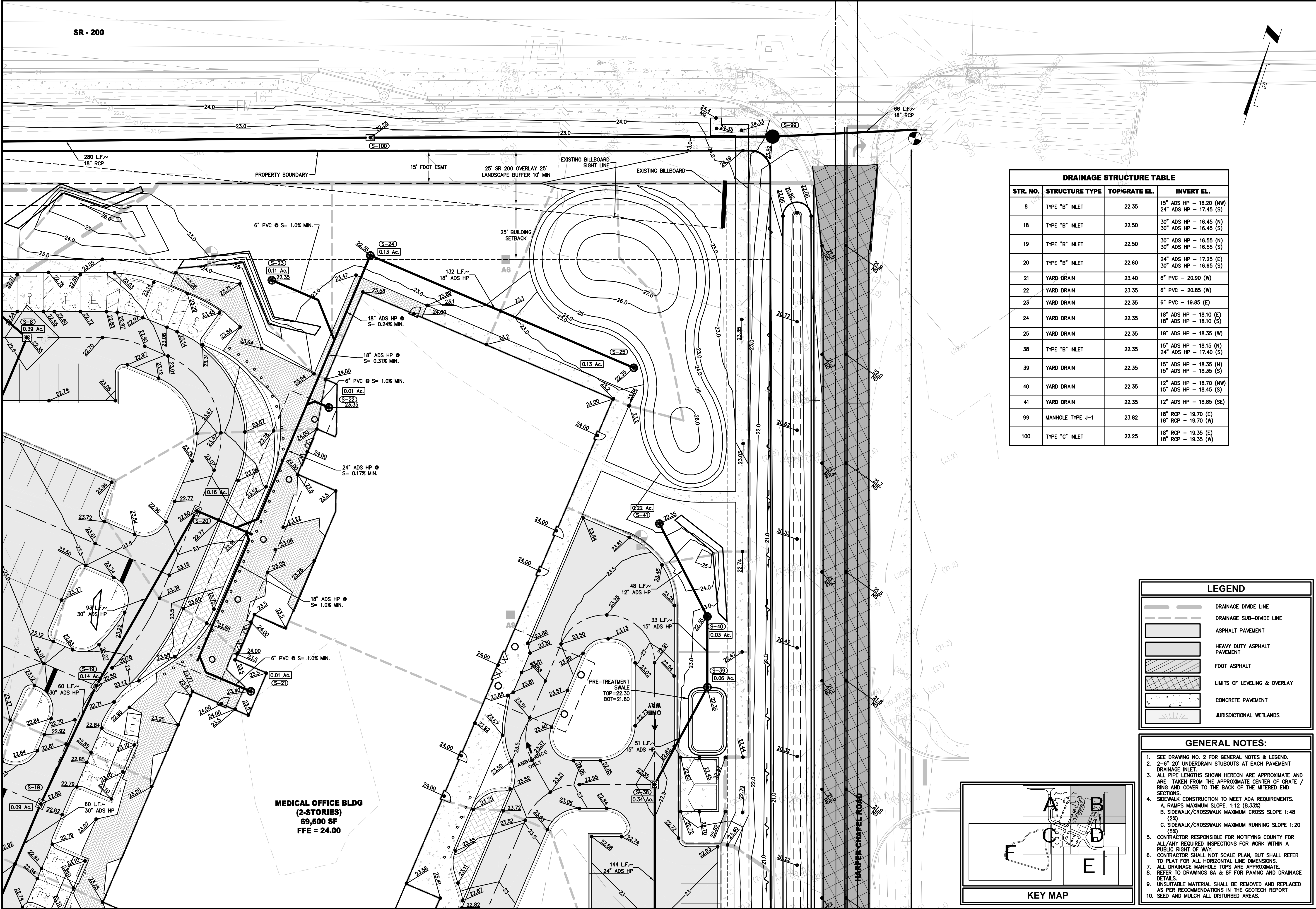
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

7A

LYNDSEY KELLER
P.E. NUMBER: 77763

PLOTTED: April 16, 2021 - 9:33 AM BY: CAD Test



DRAINAGE STRUCTURE TABLE			
STR. NO.	STRUCTURE TYPE	TOP/GRATE EL.	INVERT EL.
8	TYPE "B" INLET	22.35	15" ADS HP - 18.20 (NW) 24" ADS HP - 17.45 (S)
18	TYPE "B" INLET	22.50	30" ADS HP - 16.45 (N) 30" ADS HP - 16.45 (S)
19	TYPE "B" INLET	22.50	30" ADS HP - 16.55 (N) 30" ADS HP - 16.55 (S)
20	TYPE "B" INLET	22.60	24" ADS HP - 17.25 (E) 30" ADS HP - 16.65 (S)
21	YARD DRAIN	23.40	6" PVC - 20.90 (W)
22	YARD DRAIN	23.35	6" PVC - 20.85 (W)
23	YARD DRAIN	22.35	6" PVC - 19.85 (E)
24	YARD DRAIN	22.35	18" ADS HP - 18.10 (E) 18" ADS HP - 18.10 (S)
25	YARD DRAIN	22.35	18" ADS HP - 18.35 (W)
38	TYPE "B" INLET	22.35	15" ADS HP - 18.15 (N) 24" ADS HP - 17.40 (S)
39	YARD DRAIN	22.35	15" ADS HP - 18.35 (W) 15" ADS HP - 18.35 (S)
40	YARD DRAIN	22.35	12" ADS HP - 18.70 (NW) 15" ADS HP - 18.45 (S)
41	YARD DRAIN	22.35	12" ADS HP - 18.85 (SE)
99	MANHOLE TYPE J-1	23.82	18" RCP - 19.70 (E) 18" RCP - 19.70 (W)
100	TYPE "C" INLET	22.25	18" RCP - 19.35 (E) 18" RCP - 19.35 (W)

LEGEND

DRAINAGE DIVIDE LINE

DRAINAGE SUB-DIVIDE LINE

ASPHALT PAVEMENT

HEAVY DUTY ASPHALT PAVEMENT

FOOT ASPHALT

LIMITS OF LEVELING & OVERLAY

CONCRETE PAVEMENT

JURISDICTIONAL WETLANDS

GENERAL NOTES:

1. SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.

2. 2'-6" 20' UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.

3. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.

4. SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.

A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%)

B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)

C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)

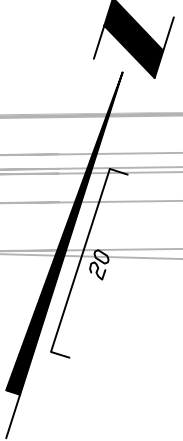
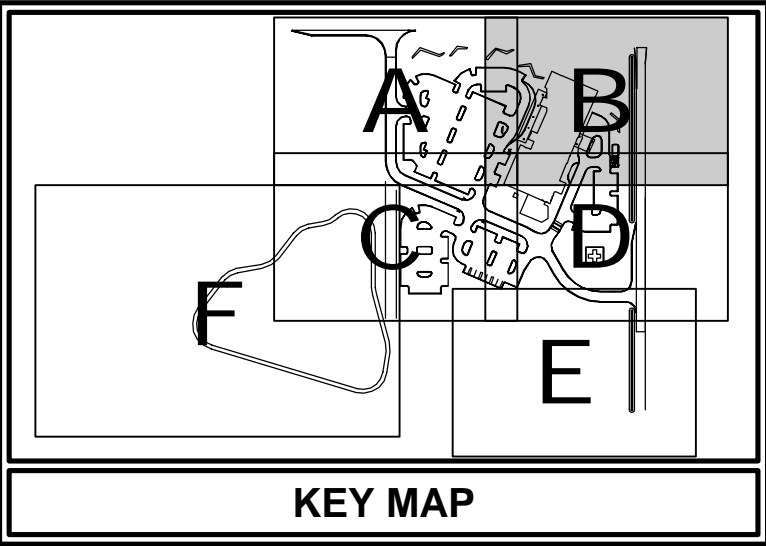
5. CONTRACTOR RESPONSIBLE FOR NOTIFYING COUNTY FOR ALL/ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.

6. CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAT FOR ALL HORIZONTAL LINE DIMENSIONS.

7. ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE. REFER TO DRAWINGS 8A & 8F FOR PAVING AND DRAINAGE DETAILS.

8. UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT

10. SEED AND MULCH ALL DISTURBED AREAS.



PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

DRAWN BY: NEW

REG - 2584 LC - 0000316

TEL: (904) 642-8890

FAX: (904) 646-9485

Jacksonville, FL 32208

England-Thins & Miller, Inc.

PAVING AND DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE

BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

7B

VISION • EXPERIENCE • RESULTS

ETM

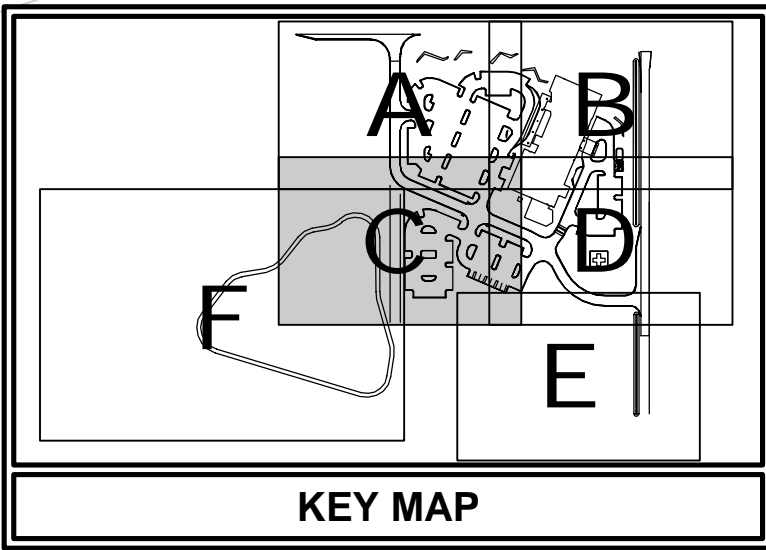
LYNDSEY KELLER

P.E. NUMBER: 77763

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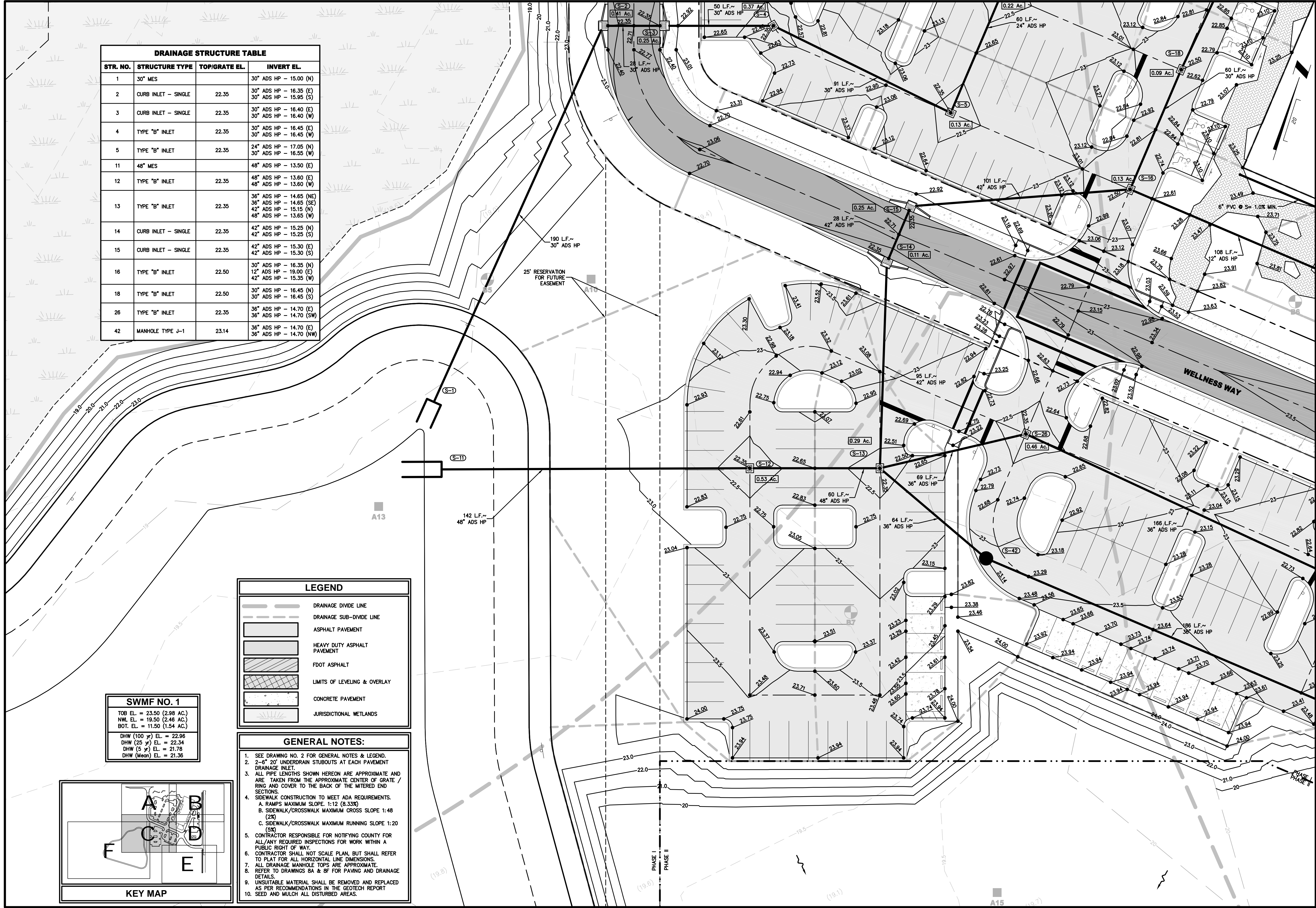
DRAINAGE STRUCTURE TABLE			
STR. NO.	STRUCTURE TYPE	TOP/GRATE EL.	INVERT EL.
1	30" MES		30" ADS HP - 15.00 (N)
2	CURB INLET - SINGLE	22.35	30" ADS HP - 16.35 (E) 30" ADS HP - 15.95 (S)
3	CURB INLET - SINGLE	22.35	30" ADS HP - 16.40 (E) 30" ADS HP - 16.40 (W)
4	TYPE "B" INLET	22.35	30" ADS HP - 16.45 (E) 30" ADS HP - 16.45 (W)
5	TYPE "B" INLET	22.35	24" ADS HP - 17.05 (N) 30" ADS HP - 16.55 (W)
11	48" MES		48" ADS HP - 13.50 (E)
12	TYPE "B" INLET	22.35	48" ADS HP - 13.60 (E) 48" ADS HP - 13.60 (W)
13	TYPE "B" INLET	22.35	36" ADS HP - 14.65 (NE) 36" ADS HP - 14.65 (SE) 42" ADS HP - 15.15 (N) 48" ADS HP - 13.65 (W)
14	CURB INLET - SINGLE	22.35	42" ADS HP - 15.25 (N) 42" ADS HP - 15.25 (S)
15	CURB INLET - SINGLE	22.35	42" ADS HP - 15.30 (E) 42" ADS HP - 15.30 (S)
16	TYPE "B" INLET	22.50	30" ADS HP - 16.35 (N) 12" ADS HP - 19.00 (E) 42" ADS HP - 15.35 (W)
18	TYPE "B" INLET	22.50	30" ADS HP - 16.45 (N) 30" ADS HP - 16.45 (S)
26	TYPE "B" INLET	22.35	36" ADS HP - 14.70 (E) 36" ADS HP - 14.70 (SW)
42	MANHOLE TYPE J-1	23.14	36" ADS HP - 14.70 (E) 36" ADS HP - 14.70 (NW)

SWMF NO. 1	
T08 EL. = 23.50 (2.98 AC.)	
NWL EL. = 19.50 (2.46 AC.)	
BOT. EL. = 11.50 (1.54 AC.)	
DHW (100 yr) EL. = 22.96	
DHW (25 yr) EL. = 22.34	
DHW (5 yr) EL. = 21.78	
DHW (Mean) EL. = 21.36	



LEGEND	
	DRAINAGE DIVIDE LINE
	DRAINAGE SUB-DIVIDE LINE
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	LIMITS OF LEVELING & OVERLAY
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

GENERAL NOTES:	
1.	SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.
2.	2'-6" 20' UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
3.	ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
4.	SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS. A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%) B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%) C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
5.	CONTRACTOR RESPONSIBLE FOR NOTIFYING COUNTY FOR ALL/ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.
6.	CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAT FOR ALL HORIZONTAL LINE DIMENSIONS.
7.	ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE.
8.	REFER TO DRAWINGS 8A & 8F FOR PAVING AND DRAINAGE DETAILS.
9.	UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT
10.	SEED AND MULCH ALL DISTURBED AREAS.



PAVING AND DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER
7C

England-Thins & Miller, Inc.
10001 St. Johns Road
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 642-9885
REG. - 2584 LC - 0000316

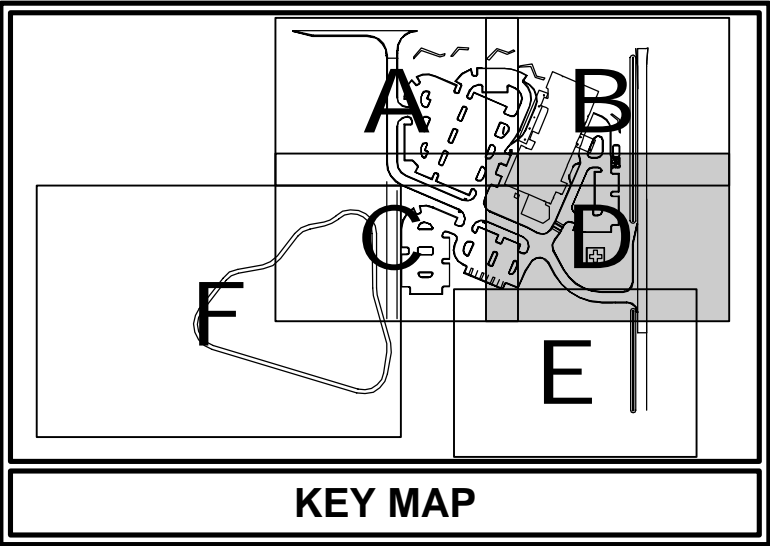
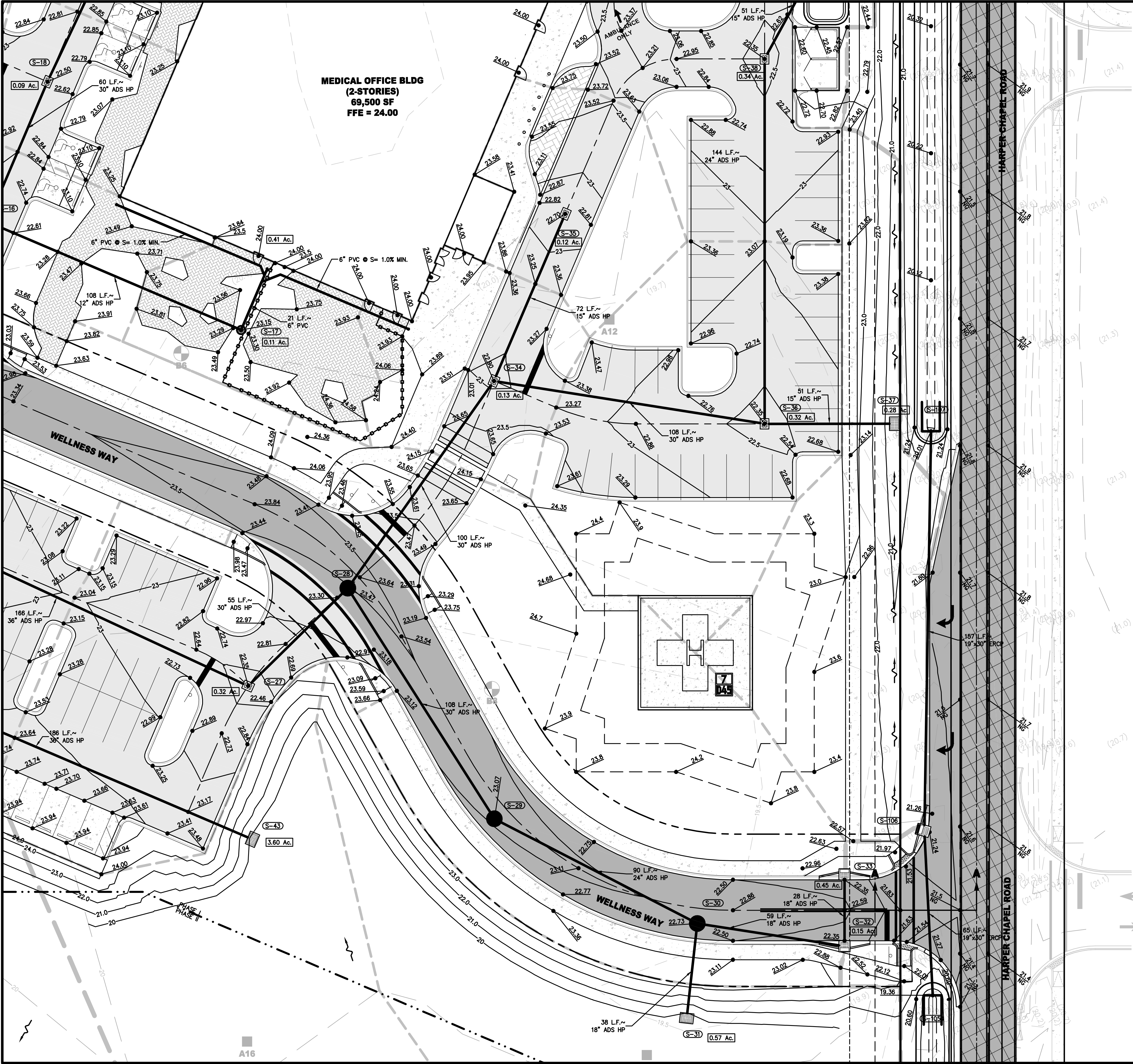
VISION • EXPERIENCE • RESULTS

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

LYNDSEY KELLER
P.E. NUMBER: 77763
PLOTTED: April 16, 2021 - 9:34 AM BY: CAD Test



DRAINAGE STRUCTURE TABLE			
STR. NO.	STRUCTURE TYPE	TOP/GRATE EL.	INVERT EL.
17	YARD DRAIN	23.15	6" PVC - 0.00 (N) 12" ADS HP - 19.55 (W)
18	TYPE "B" INLET	22.50	30" ADS HP - 16.45 (N) 30" ADS HP - 16.45 (S)
27	TYPE "B" INLET	22.35	30" ADS HP - 15.30 (NE) 36" ADS HP - 14.80 (W)
28	MANHOLE TYPE J-1	23.47	30" ADS HP - 15.95 (SE) 30" ADS HP - 16.40 (N) 30" ADS HP - 15.35 (SW)
29	MANHOLE TYPE J-1	23.07	24" ADS HP - 16.55 (E) 30" ADS HP - 16.05 (NW)
30	MANHOLE TYPE J-1	22.73	18" ADS HP - 18.10 (E) 18" ADS HP - 17.20 (S) 24" ADS HP - 16.70 (W)
31	TYPE "E" SLOTTED INLET 36" SLOT @ 19.45 (N,S)	19.45	18" ADS HP - 17.30 (N)
32	CURB INLET - SINGLE	22.35	18" ADS HP - 18.25 (N) 18" ADS HP - 18.25 (W)
33	CURB INLET - SINGLE	22.35	18" ADS HP - 18.35 (S)
34	TYPE "B" INLET	22.90	30" ADS HP - 16.55 (E) 15" ADS HP - 18.75 (W) 30" ADS HP - 16.55 (S)
35	TYPE "B" INLET	22.70	15" ADS HP - 18.95 (S)
36	TYPE "B" INLET	22.35	24" ADS HP - 17.20 (N) 15" ADS HP - 18.40 (C) 30" ADS HP - 16.70 (W)
37	TYPE "E" SLOTTED INLET 36" SLOT @ 20.25 (N,S)	22.35	15" ADS HP - 18.60 (W)
38	TYPE "B" INLET	22.35	15" ADS HP - 18.15 (N) 24" ADS HP - 17.40 (S)
42	MANHOLE TYPE J-1	23.14	36" ADS HP - 14.70 (E) 36" ADS HP - 14.70 (NW)
43	TYPE "E" SLOTTED INLET 36" SLOT @ 19.70 (E,W)	22.35	36" ADS HP - 14.85 (W)
106	CURB INLET - SINGLE	21.24	19"x30" ERCP - 18.61 (N) 19"x30" ERCP - 18.61 (S)
107	30" MES		19"x30" ERCP - 18.90 (S)

LEGEND	
	DRAINAGE DIVIDE LINE
	DRAINAGE SUB-DIVIDE LINE
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FOOT ASPHALT
	LIMITS OF LEVELING & OVERLAY
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- GENERAL NOTES:**
- SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.
 - 2'-6" 20' UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
 - ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
 - SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.
A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%)
B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)
C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
 - CONTRACTOR RESPONSIBLE FOR NOTIFYING COUNTY FOR ALL ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.
 - CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAT FOR ALL HORIZONTAL LINE DIMENSIONS.
 - ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE. REFER TO DRAWINGS 8A & 8F FOR PAVING AND DRAINAGE DETAILS.
 - UNSATURABLE MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT
 - SEED AND MULCH ALL DISTURBED AREAS.

PAVING AND DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER
7D

England-Thins & Miller, Inc.
17501 S.W. 11th Street
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 646-9485
REG. 2584 LC 0000316

VISION • EXPERIENCE • RESULTS

PLANS PREPARED UNDER THE
DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

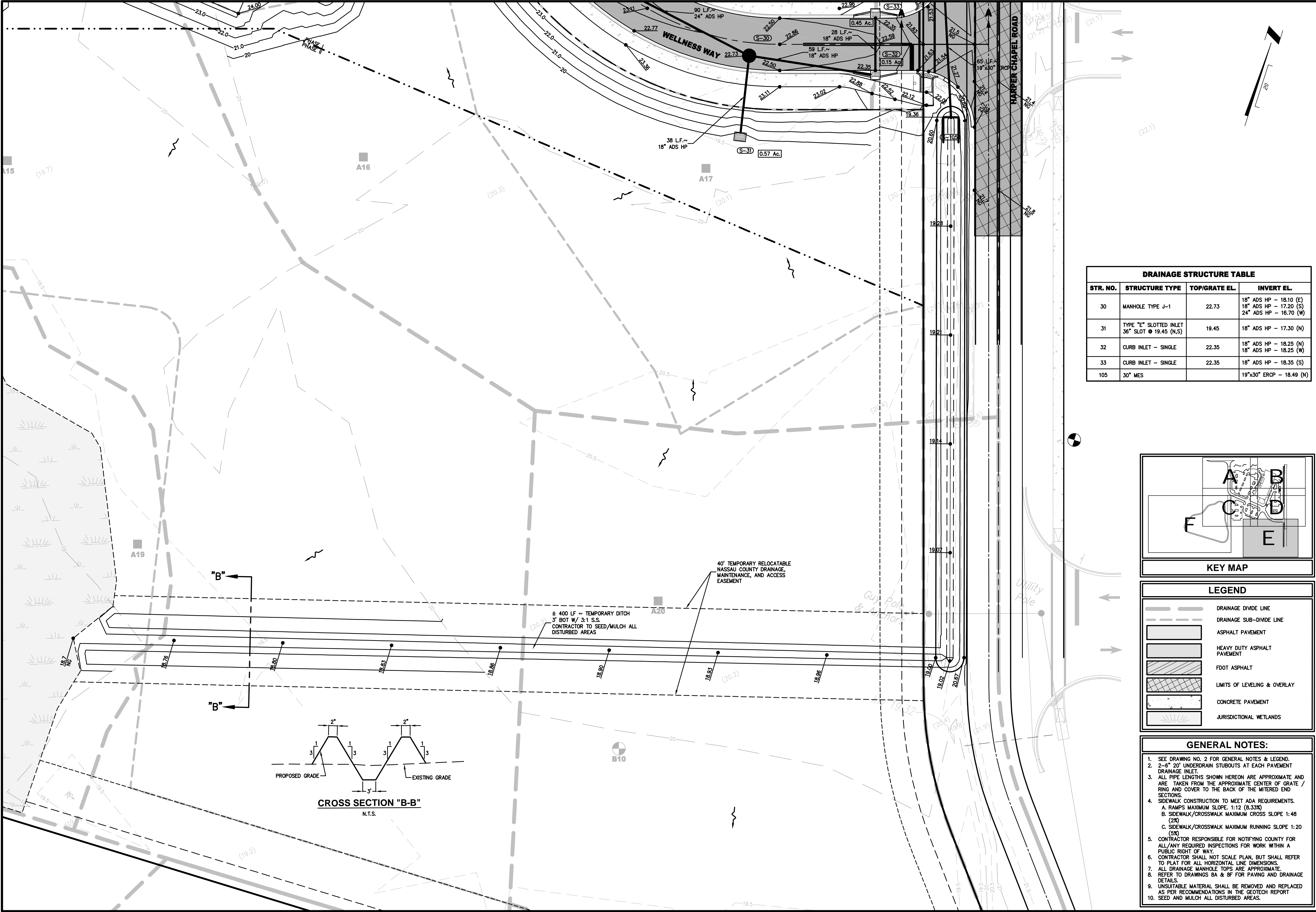
DESIGNED BY: JN

CHECKED BY: LDK

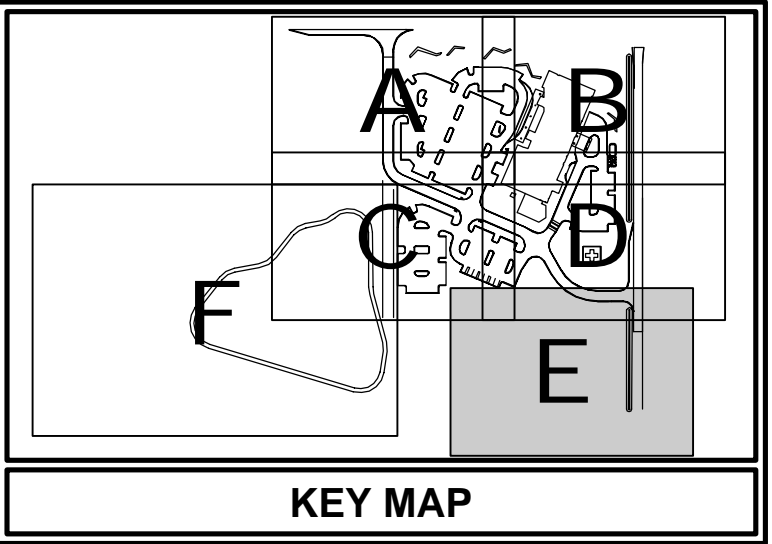
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LYNDSEY KELLER
P.E. NUMBER: 77763

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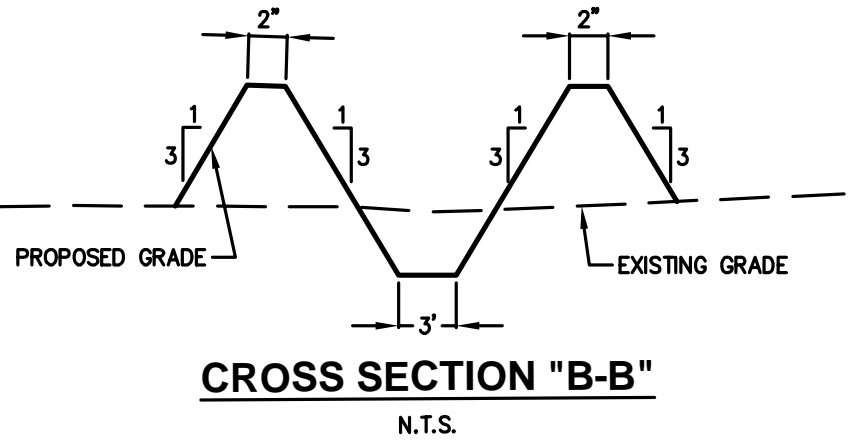


DRAINAGE STRUCTURE TABLE			
STR. NO.	STRUCTURE TYPE	TOP/GRATE EL.	INVERT EL.
30	MANHOLE TYPE J-1	22.73	18" ADS HP - 18.10 (E) 18" ADS HP - 17.20 (S) 24" ADS HP - 16.70 (W)
31	TYPE "E" SLOTTED INLET 36" SLOT @ 19.45 (N,S)	19.45	18" ADS HP - 17.30 (N)
32	CURB INLET - SINGLE	22.35	18" ADS HP - 18.25 (N) 18" ADS HP - 18.25 (W)
33	CURB INLET - SINGLE	22.35	18" ADS HP - 18.35 (S)
105	30" MES		19"X30" ERCP - 18.49 (N)



LEGEND	
	DRAINAGE DIVIDE LINE
	DRAINAGE SUB-DIVIDE LINE
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FOOT ASPHALT
	LIMITS OF LEVELING & OVERLAY
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- GENERAL NOTES:**
- SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.
 - 2'-6" 20" UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
 - ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
 - SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.
A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%)
B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)
C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
 - CONTRACTOR RESPONSIBLE FOR NOTIFYING COUNTY FOR ALL/ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.
 - CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAT FOR ALL HORIZONTAL LINE DIMENSIONS.
 - ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE. REFER TO DRAWINGS 8A & 8F FOR PAVING AND DRAINAGE DETAILS.
 - UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT
 - SEED AND MULCH ALL DISTURBED AREAS.



PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

England-Thins & Miller, Inc.
1750 S.W. 11th Street
Jacksonville, FL 32208
TEL: (904) 642-8890
FAX: (904) 646-3485
REG - 2584 LC - 0000316

DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

DRAWING NUMBER

7E

PAVING AND DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

VISION • EXPERIENCE • RESULTS

ETM

PLANNED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

England-Thins & Miller, Inc.
1750 S.W. 11th Street
Jacksonville, FL 32208
TEL: (904) 642-8890
FAX: (904) 646-3485
REG - 2584 LC - 0000316

DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

DRAWING NUMBER



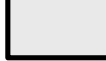



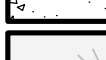

7E

PAVING AND DRAINAGE PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

VISION • EXPERIENCE • RESULTS

ETM

LEGEND	
	DRAINAGE DIVIDE LINE
	DRAINAGE SUB-DIVIDE LINE
	ASPHALT PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	FDOT ASPHALT
	LIMITS OF LEVELING & OVERLAY
	CONCRETE PAVEMENT
	JURISDICTIONAL WETLANDS

- ## GENERAL NOTES:
1. SEE DRAWING NO. 2 FOR GENERAL NOTES & LEGEND.
 2. 4" MIN. UNDERDRAIN STUBOUTS AT EACH PAVEMENT DRAINAGE INLET.
 3. ALL PIPE LENGTHS SHOWN HEREON ARE APPROXIMATE AND ARE TAKEN FROM THE APPROXIMATE CENTER OF GRATE / RING AND COVER TO THE BACK OF THE MITERED END SECTIONS.
 4. SIDEWALK CONSTRUCTION TO MEET ADA REQUIREMENTS.
 - A. RAMPS MAXIMUM SLOPE: 1:12 (8.33%)
 - B. SIDEWALK/CROSSWALK MAXIMUM CROSS SLOPE 1:48 (2%)
 - C. SIDEWALK/CROSSWALK MAXIMUM RUNNING SLOPE 1:20 (5%)
 5. CONTRACTOR RESPONSIBLE FOR NOTIFYING COUNTY FOR ALL ANY REQUIRED INSPECTIONS FOR WORK WITHIN A PUBLIC RIGHT OF WAY.
 6. CONTRACTOR SHALL NOT SCALE PLAN, BUT SHALL REFER TO PLAN FOR ALL HORIZONTAL LINE DIMENSIONS.
 7. ALL DRAINAGE MANHOLE TOPS ARE APPROXIMATE.
 8. REFER TO DRAWINGS BA & BF FOR PAVING AND DRAINAGE DETAILS.
 9. UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED AS PER RECOMMENDATIONS IN THE GEOTECH REPORT.
 10. SEED AND MULCH ALL DISTURBED AREAS.



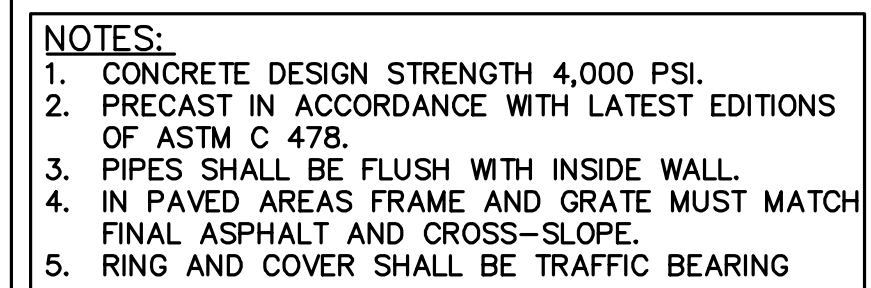
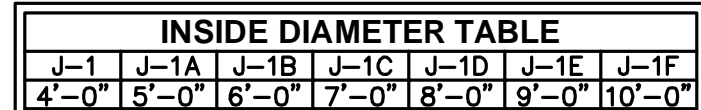
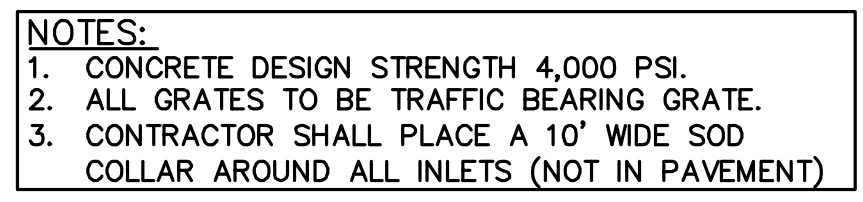
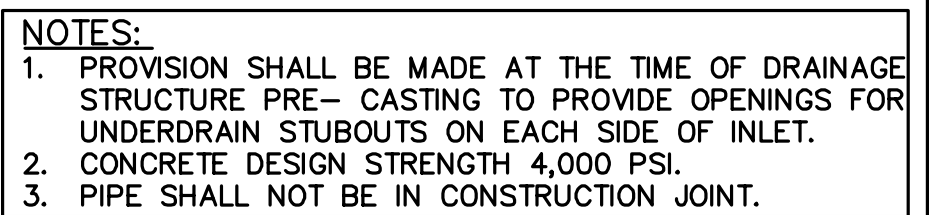
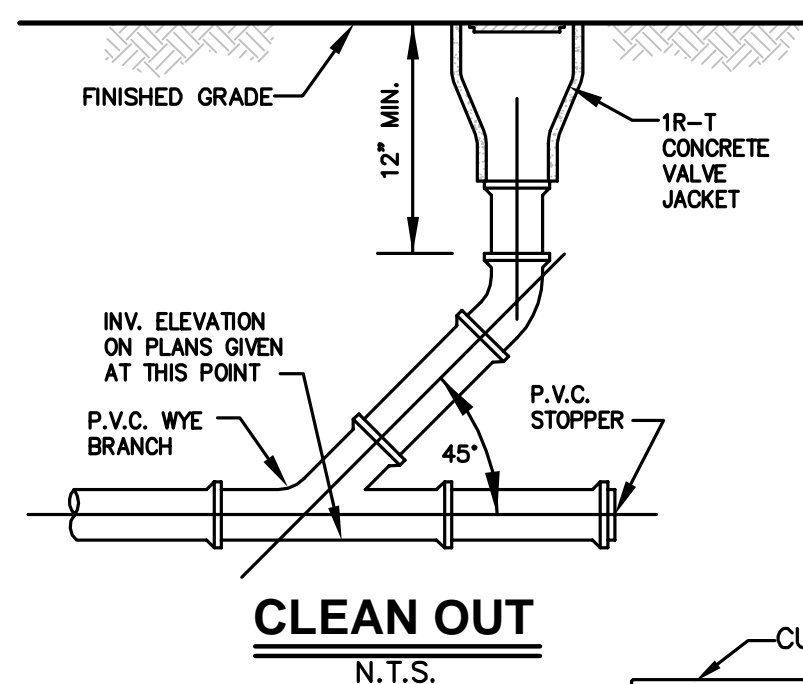
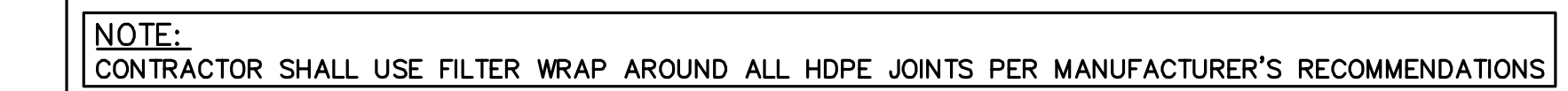
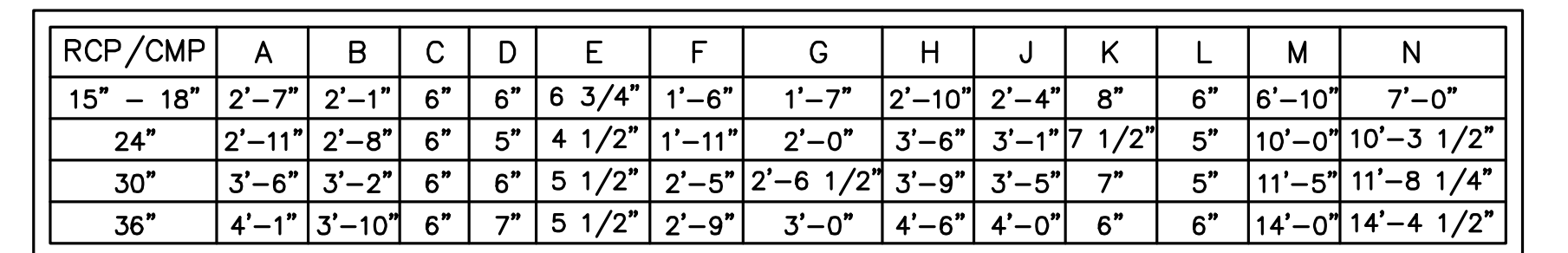
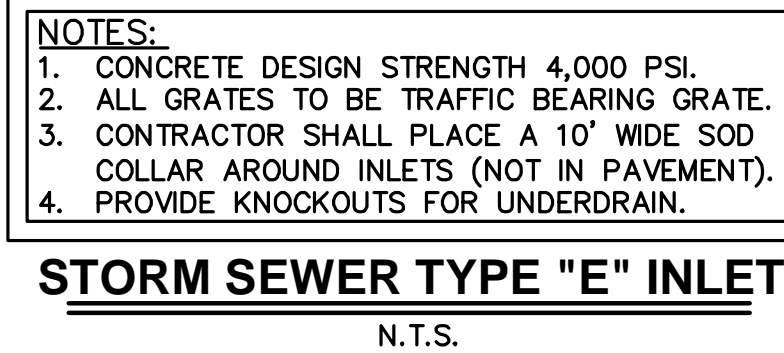
SWMF NO. 1	
TOB EL. =	23.50 (2.98 AC.)
NWL EL. =	19.50 (2.46 AC.)
BOT. EL. =	11.50 (1.54 AC.)
DHW (100 yr) EL. =	22.72
DHW (25 yr) EL. =	22.16
DHW (5 yr) EL. =	21.63
DHW (Mean) EL. =	21.21

DRAWING NUMBER
7F

ETM NO. 17-252-01-001
DRAWN BY: WBW
DESIGNED BY: JN
CHECKED BY: LDK

PLANS PREPARED UNDER THE
DIRECTION OF:

LYNDSEY KELLER



DIRECTION OF:

—

DRAWN BY: WRW

England-Thiny & Miller, Inc.
14775 Old St. Augustine Road

ETM

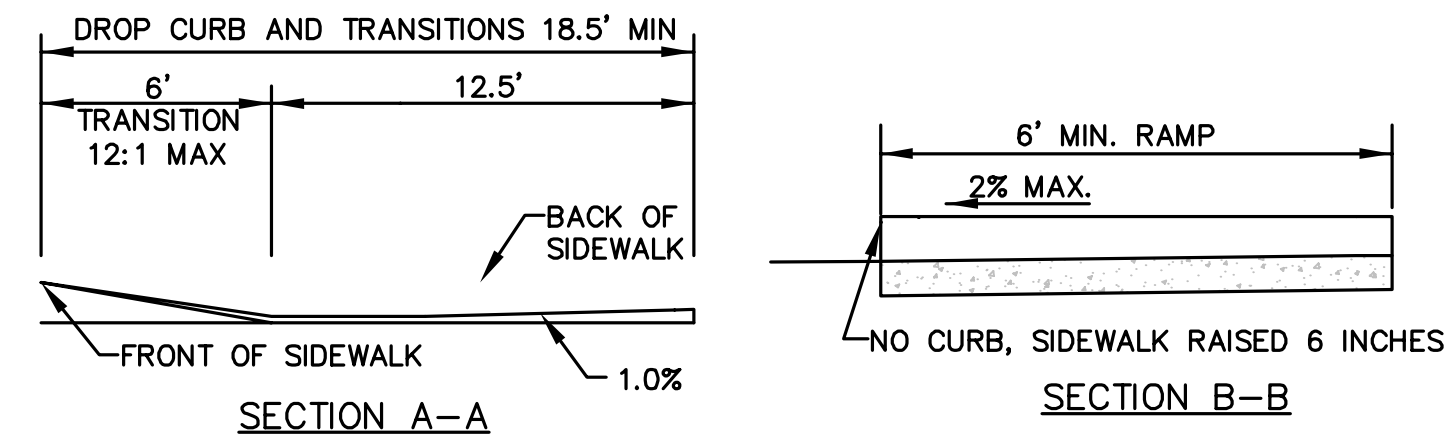
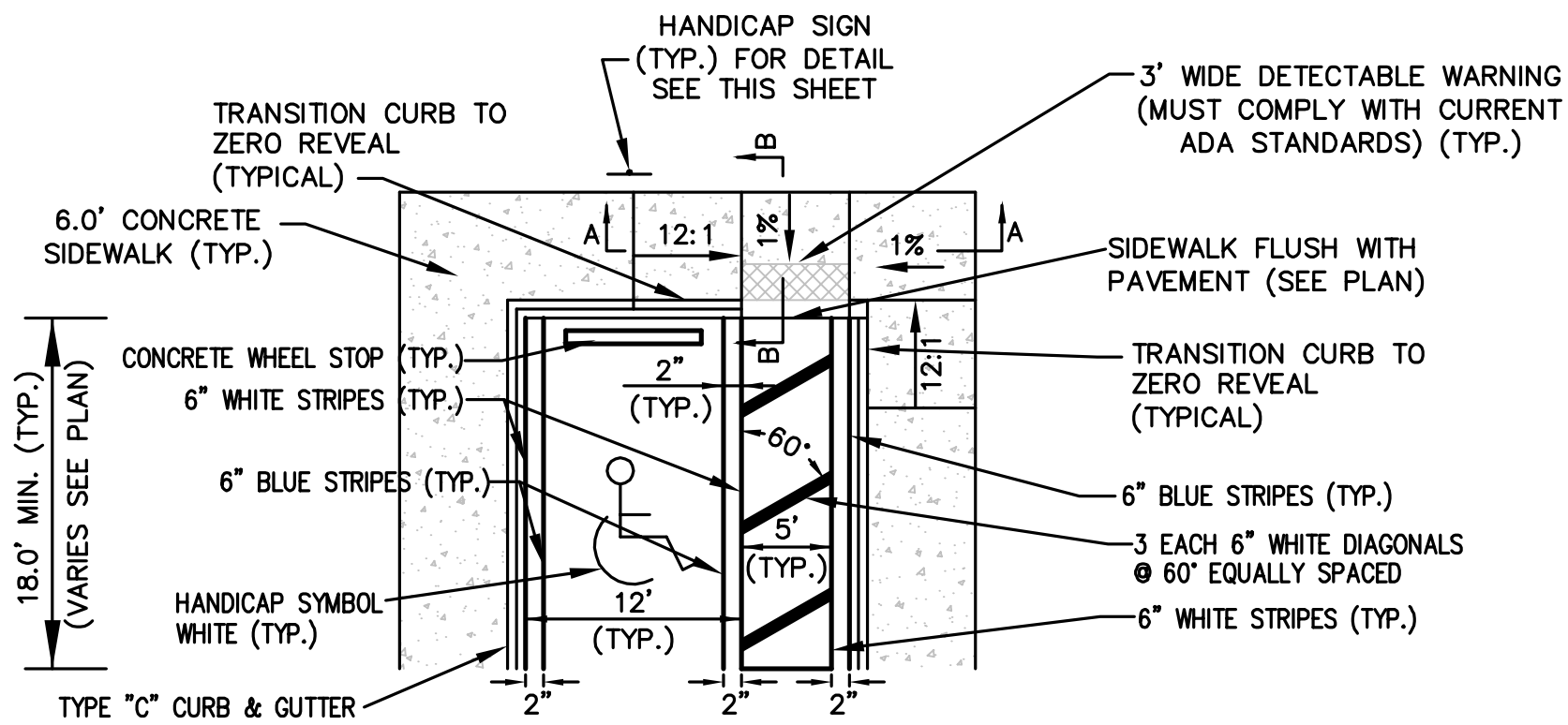
PAVING AND DRAINAGE DETAILS

**BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.**

DRAWING NUMBER

8A

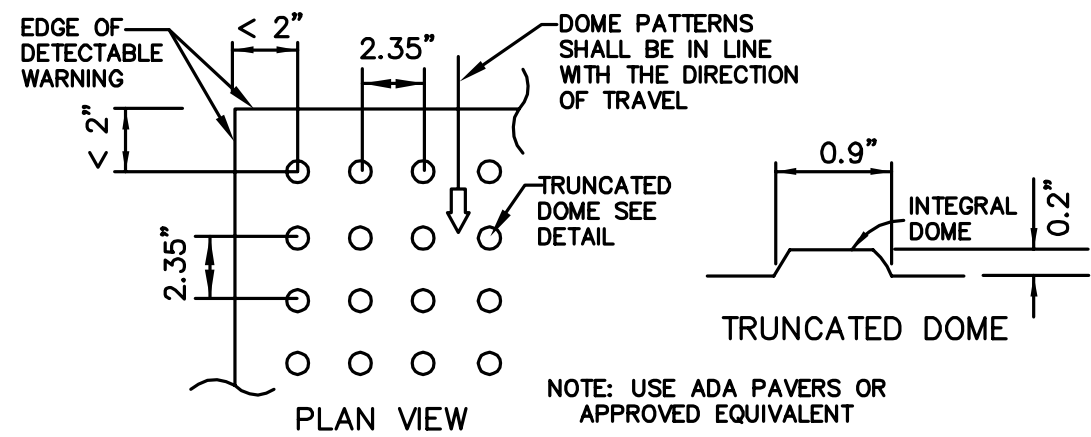
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- NOTE:
- HANDICAP RAMPS, SPACES AND SIGNAGE SHALL MEET REQUIREMENTS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 9B-7 AND AMERICAN NATIONAL STANDARD A117.1 AND ALL APPLICABLE CITY AND STATE REQUIREMENTS.
 - CONTRACTOR SHALL INSTALL A DETECTABLE WARNING SURFACE IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND FLORIDA BUILDING CODE SECTION 11.
 - REFER TO PAVING AND DRAINAGE PLAN FOR SIDEWALK TRANSITION AND DIMENSIONS.
 - SEE SHEET NUMBER 2 FOR GENERAL NOTE REGARDING DETECTABLE WARNING AREAS.

HANDICAP RAMP DETAILS

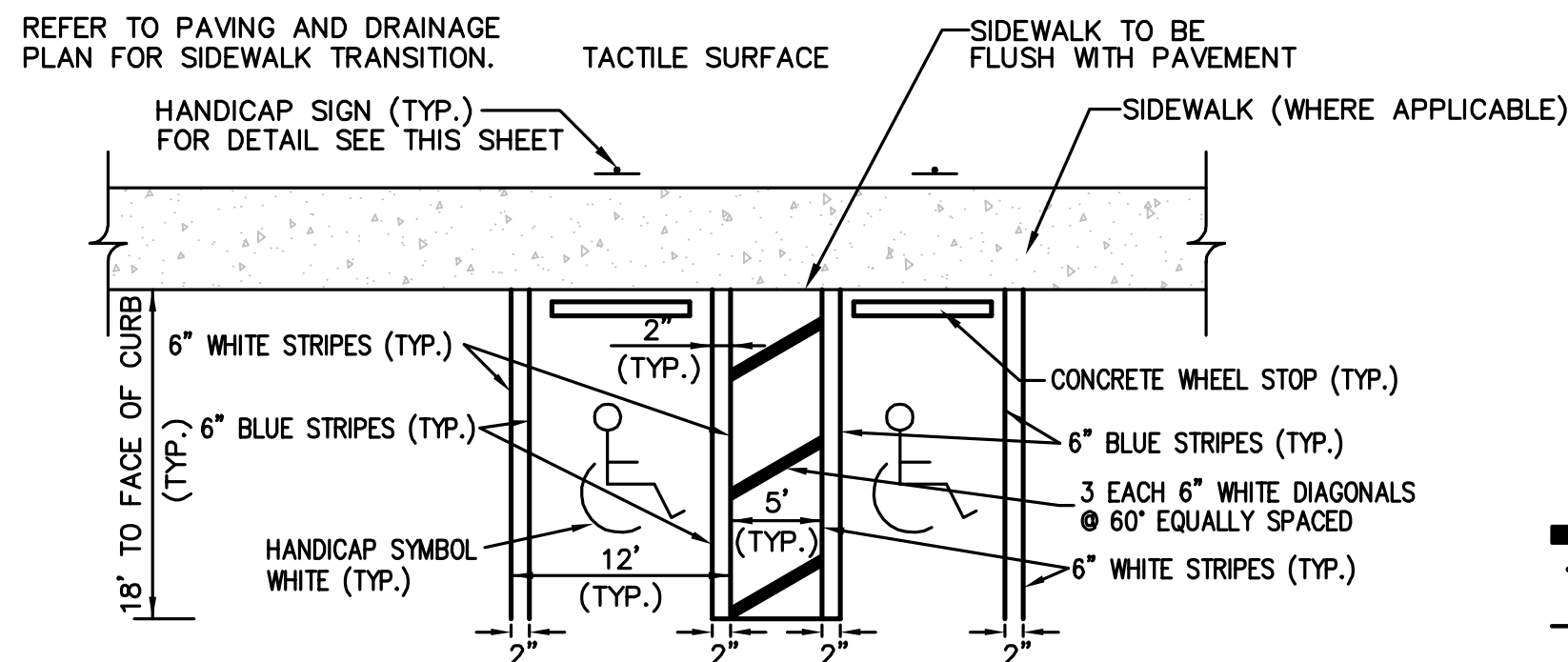
N.T.S.



ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB

CURB RAMP DETECTABLE WARNING

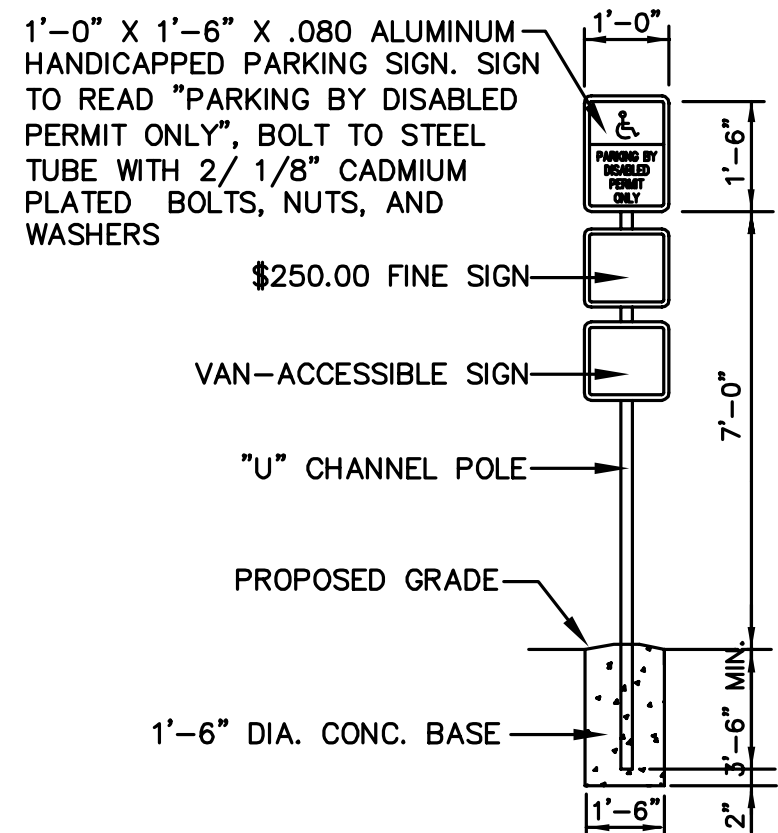
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- NOTE:
- HANDICAP RAMPS, SPACES AND SIGNAGE SHALL MEET AMERICAN NATIONAL STANDARD A117.1 AND ALL APPLICABLE CITY AND STATE REQUIREMENTS.
 - THE CONTRACTOR SHALL INSTALL DETECTABLE WARNING SURFACES IN ACCORDANCE WITH A.D.A. REQUIREMENTS. REFER TO FDOT STANDARD INDEX 522-002 FOR DETECTABLE WARNING PLACEMENT.
 - ALL PAINT AND STRIPING SHALL BE IN ACCORDANCE WITH FDOT INDEX 711-001.

UNIVERSAL HANDICAP PARKING DETAIL

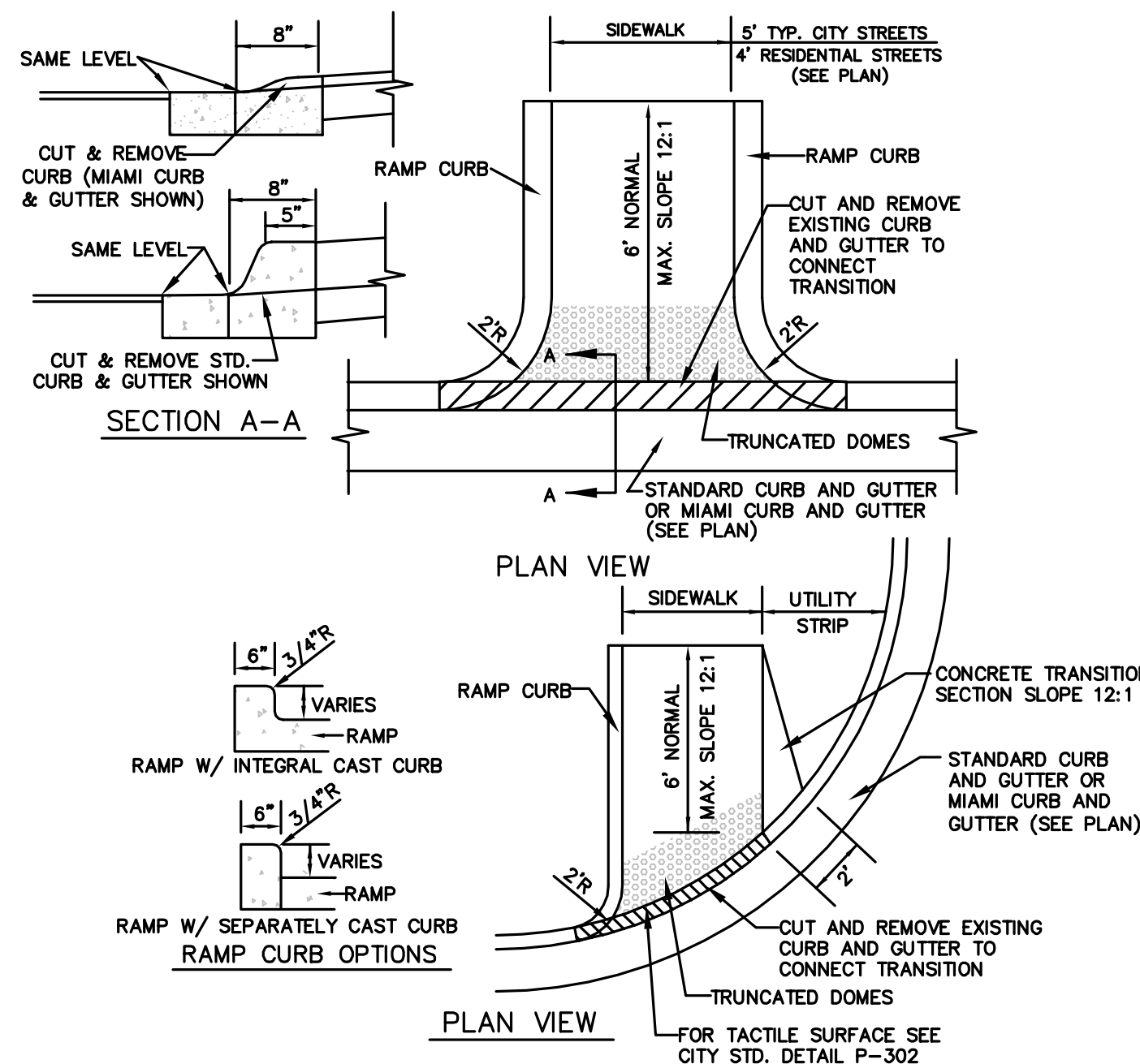
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NOTE: HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL AND FEDERAL CODES AND REGULATIONS.

HANDICAP PARKING SIGN DETAIL

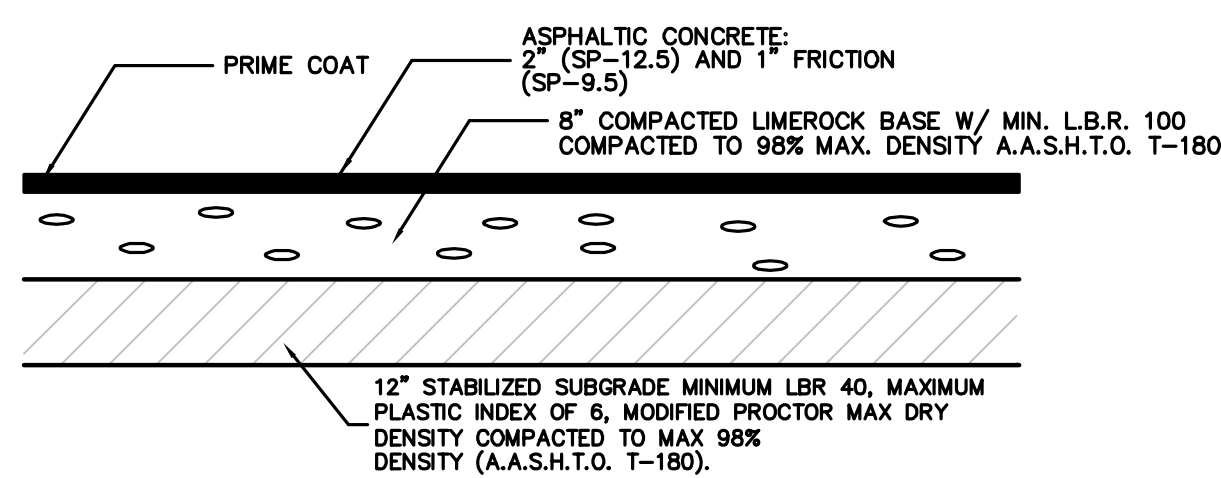
N.T.S.



- NOTES:
- HANDICAP RAMPS, SPACES AND SIGNAGE SHALL MEET AMERICAN NATIONAL STANDARD A117.1 AND ALL APPLICABLE CITY AND STATE REQUIREMENTS.
 - THE CONTRACTOR SHALL INSTALL DETECTABLE WARNING SURFACES IN ACCORDANCE WITH A.D.A. REQUIREMENTS. REFER TO FDOT STANDARD INDEX 502-002 FOR FURTHER INFORMATION.

STANDARD HANDICAP RAMP DETAILS

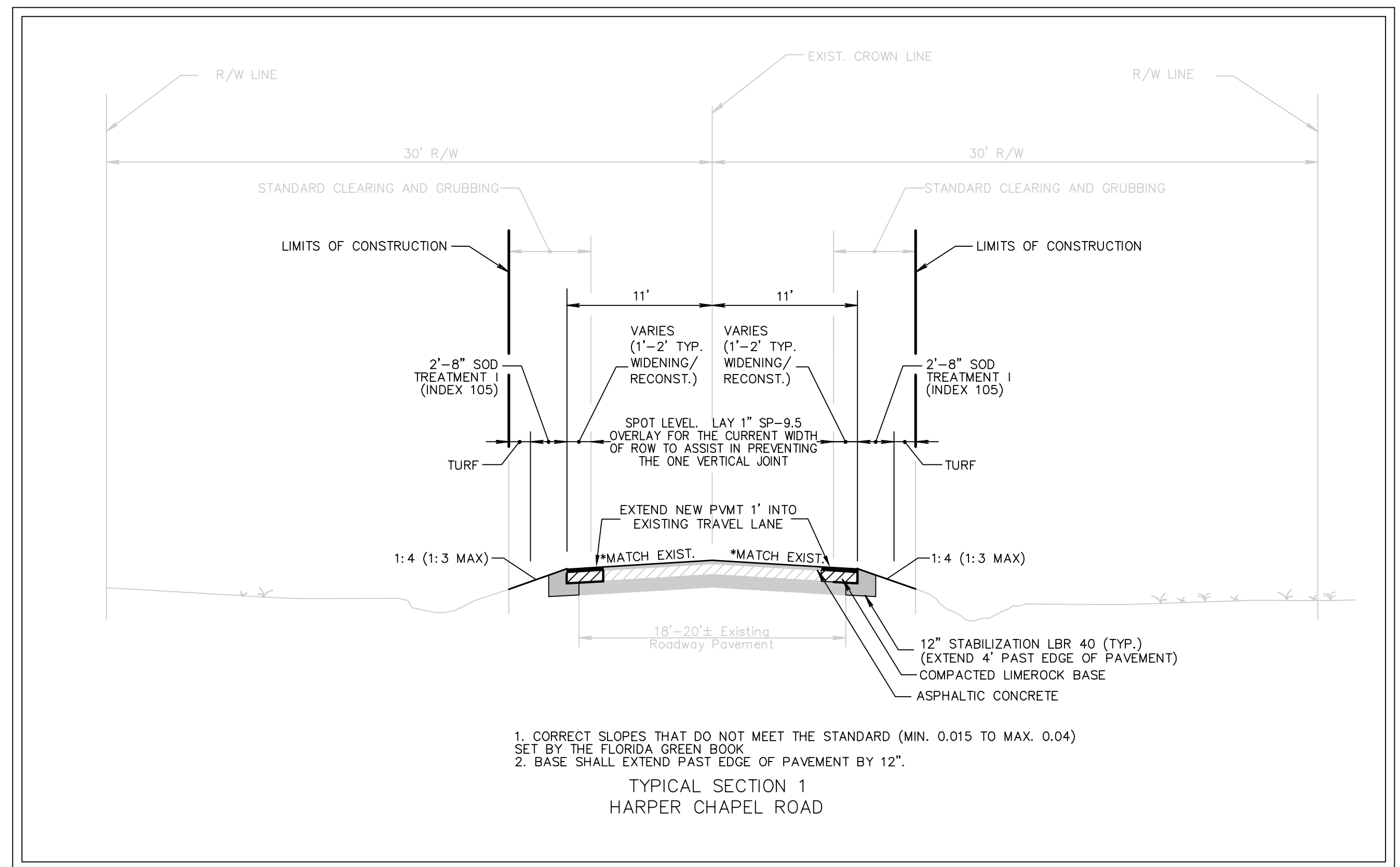
N.T.S.



- NOTES:
- SOIL ANALYSIS MAY INDICATE THE NEED FOR A THICKER BASE COURSE. THE PAYMENT THICKNESS MAY BE MODIFIED TO ACCOMMODATE THE BEARING CAPACITY OF VARIOUS SUBGRADES.

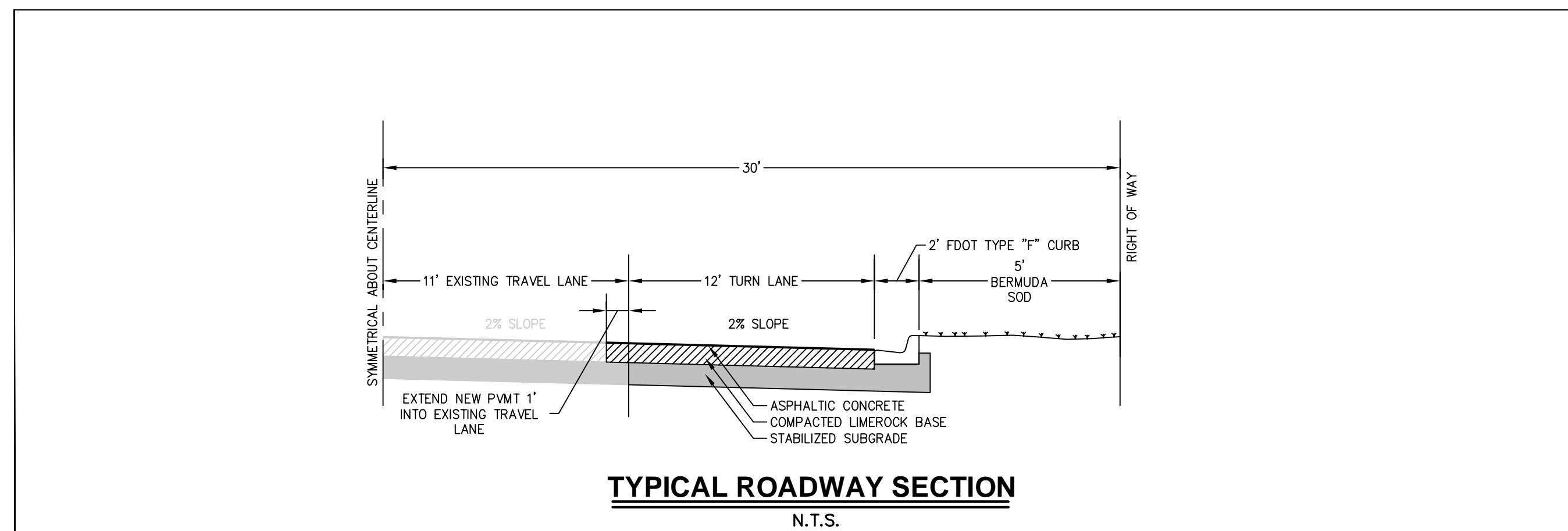
COUNTY ASPHALT PAVEMENT SECTION

N.T.S.



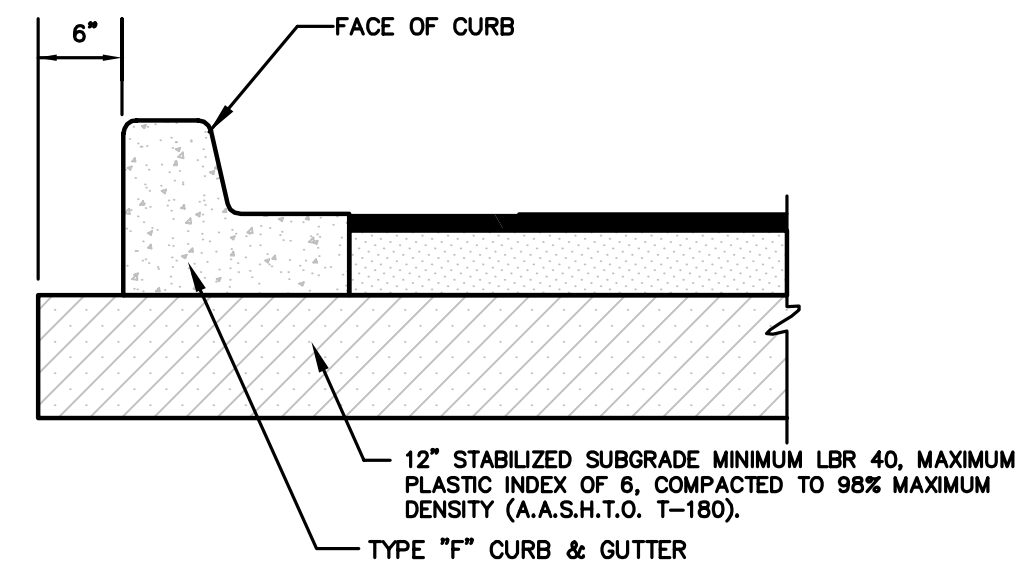
- CORRECT SLOPES THAT DO NOT MEET THE STANDARD (MIN. 0.015 TO MAX. 0.04) SET BY THE FLORIDA GREEN BOOK
- BASE SHALL EXTEND PAST EDGE OF PAVEMENT BY 12".

TYPICAL SECTION 1 HARPER CHAPEL ROAD



TYPICAL ROADWAY SECTION

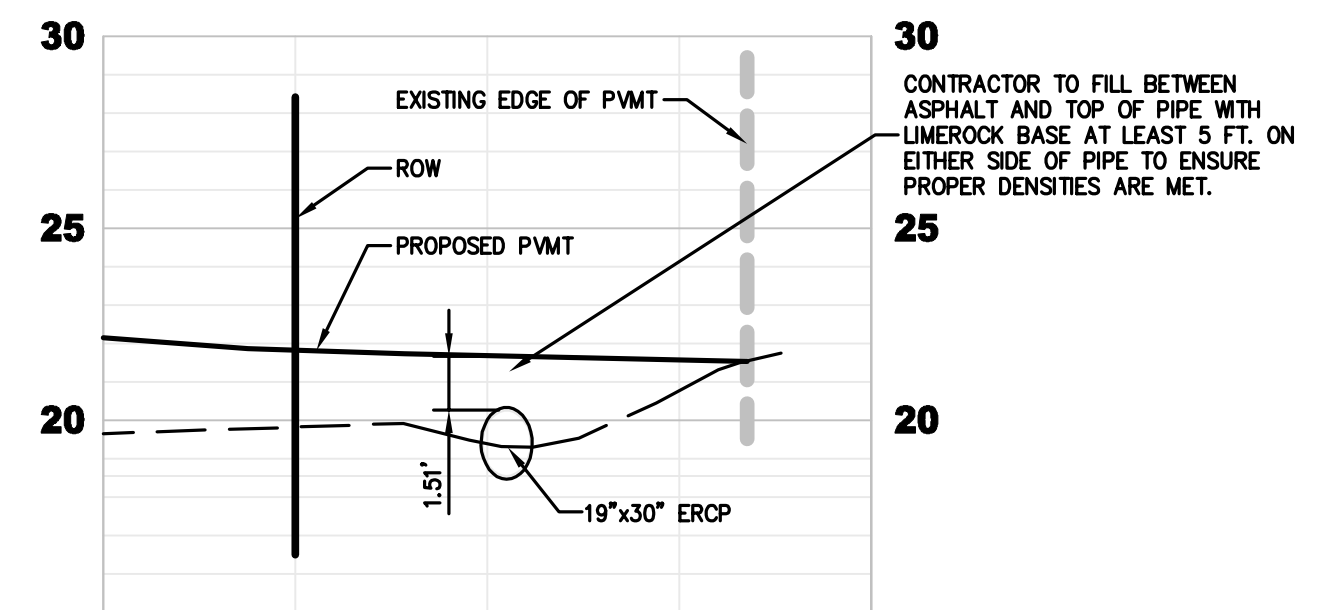
N.T.S.



- NOTES:
- TYPICAL PAVEMENT SECTION MATCHES SR-200 IMPROVEMENT PLANS BY CH2M HILL, DATED 05/29/2016:
- OPTIONAL BASE GROUP 9 (10" LR)
5" SP-12.5 (PG 76-22, PMA)
2" FC-12.5 (PG 76-22, PMA, HIGH POLYMER)

FDOT TURN LANE PAVEMENT SECTION (WITHIN ROW)

N.T.S.



SECTION A-A

N.T.S.

PLANS PREPARED UNDER THE
DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

DRAWN BY: NEW

DATE: JUL 2020

REG - 2584 LC - 0000316

TEL: (904) 642-8890

FAX: (904) 646-9485

REG - 2584 LC - 0000316

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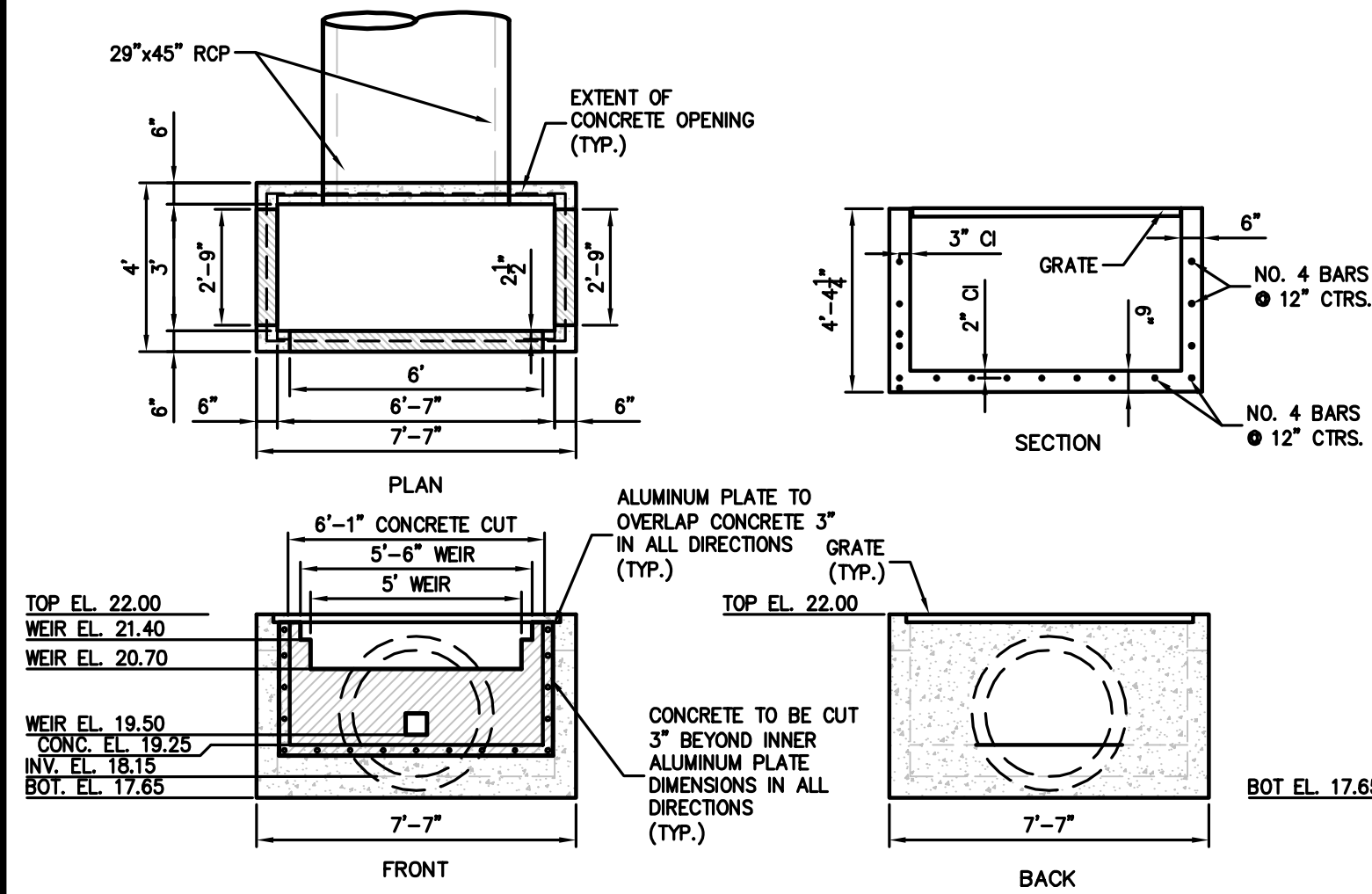
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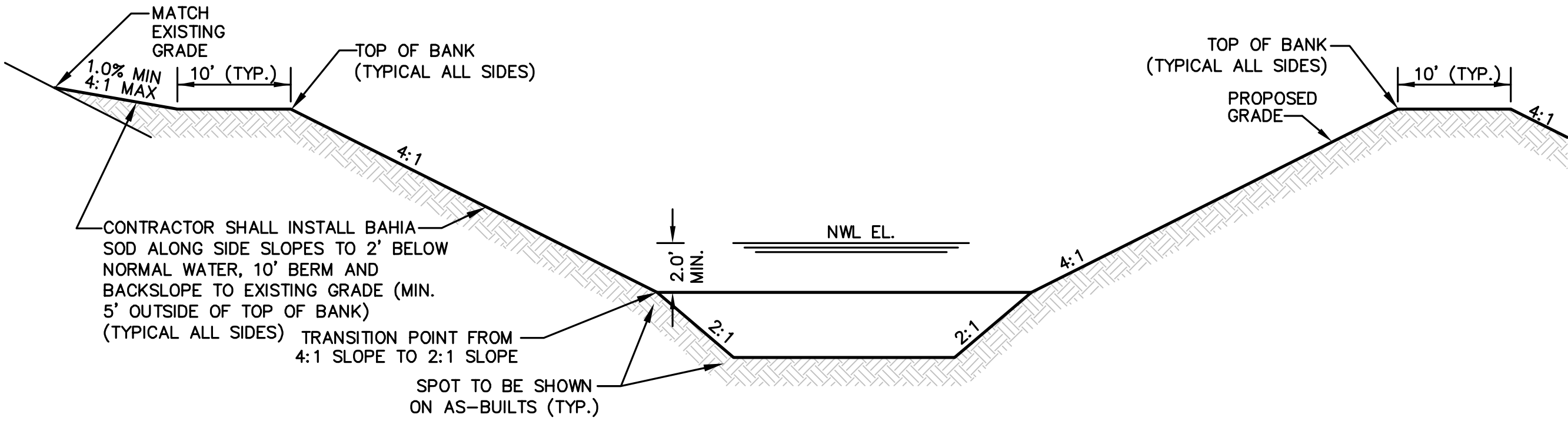
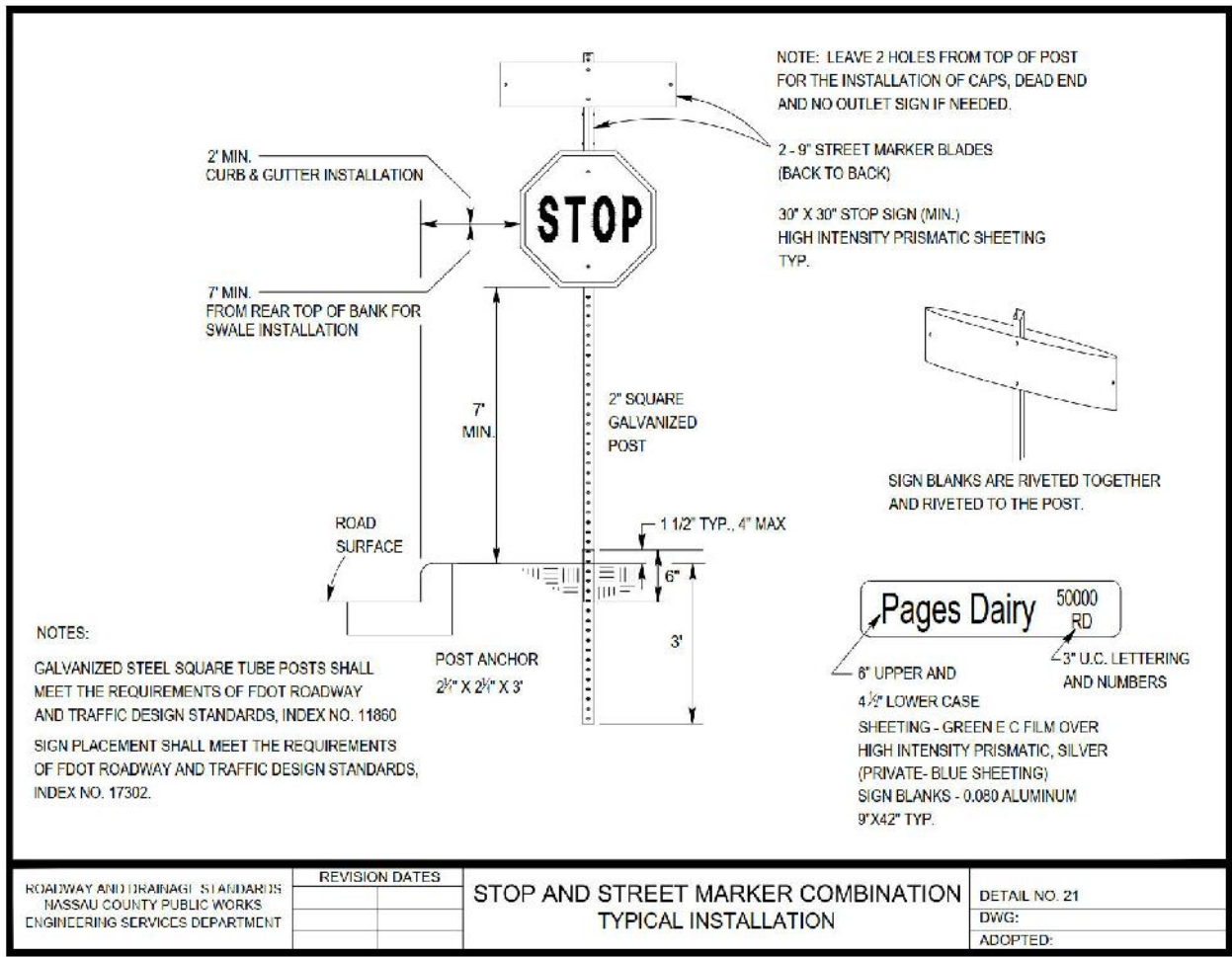
REG - 2584 LC - 0000316

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CONTROL STRUCTURE S-200 DETAIL
MOD. TYPE "E" INLET

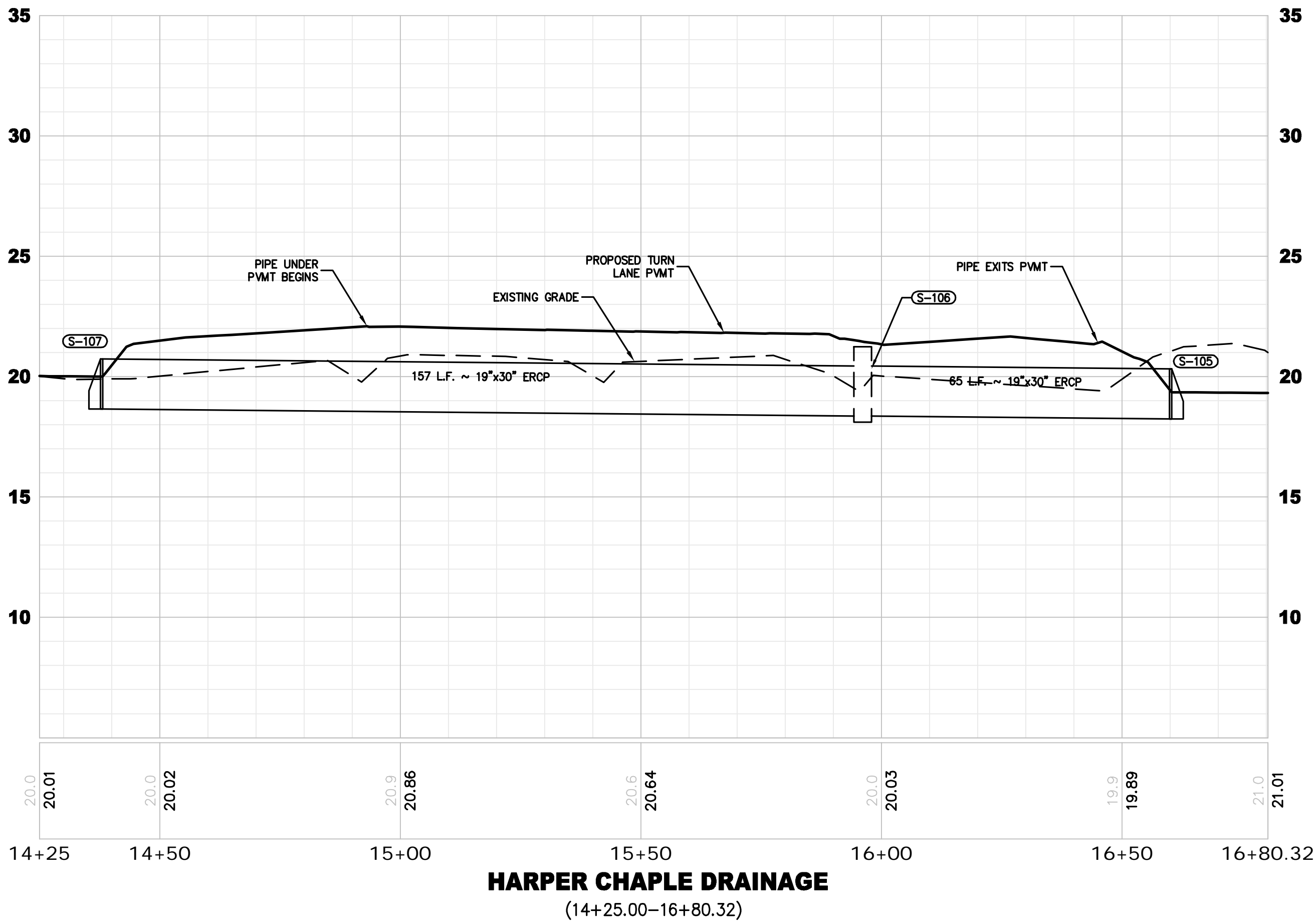
N.T.S.



- NOTES:
1. SIDES SLOPES SHALL NOT BE STEEPER THAN 4:1 TO DEPTH SHOWN ABOVE (PER SJRWMD REQUIREMENTS). CONTRACTOR SHALL VERIFY SLOPES AND VOLUME ON RECORD DRAWINGS AT SPOTS SHOWN ABOVE AND AT 100' MAXIMUM INTERVALS AND AT ALL TURN POINTS.
 2. CONTRACTOR SHALL FILL EMBANKMENTS (BERMS) THAT ARE ABOVE EXISTING GRADE IN LIFTS NOT EXCEEDING 8" IN THICKNESS. SURFACE OF FILL SHALL BE SCARIFIED BETWEEN SUCCESSIVE LIFTS TO PROVIDE BOND AND PRECLUDE SEEPAGE PATHS OR SLICK INTERFACES. FILL SOILS SHALL CONSIST OF CLAYEY FINE SANDS (SC) WITH A MIN. 15 PERCENT OF FINES PASSING THE NO. 200 SIEVE. EMBANKMENT SHALL BE COMPACTED TO 98% OF MODIFIED PROCTOR MAX. DRY DENSITY, WITH 2%± OF OPTIMUM MOISTURE CONTENT. CONTRACTOR SHALL PROVIDE DENSITY TEST ALONG POND EMBANKMENTS AT 200' INTERVALS.
 3. CONTRACTOR MAY DISPOSE OF UNSUITABLE MATERIAL IN BOTTOM OF STORM WATER MANAGEMENT FACILITY PROVIDED THAT ALL UNSUITABLE MATERIAL DISPOSED OF IS COVERED WITH A MINIMUM OF 24" OF CLEAN FILL; HOWEVER, CONTRACTOR SHALL NOT DISPOSE OF UNSUITABLE MATERIAL IN SIDE SLOPES OR BERMS, FINAL DEPTH SHALL BE AS SHOWN ON PERMITTED CONSTRUCTION PLANS.
 4. NO MOWED OR CUT VEGETATIVE MATERIAL SHALL BE DEPOSITED OR REMAIN IN THE LOW MAINTENANCE ZONE OR DEPOSITED IN THE WATER. CARE SHOULD BE TAKEN TO PREVENT THE OVER-SPRAY OF AQUATIC WEED PRODUCTS INTO THE LOW MAINTENANCE ZONE.
 5. REFER TO SHEETS 7A-7F FOR CORRESPONDING PROPOSED STORMWATER MANAGEMENT FACILITY ELEVATIONS.

TYPICAL SECTION THRU STORMWATER MANAGEMENT FACILITY

N.T.S.



HARPER CHAPLE DRAINAGE
(14+25.00-16+80.32)

H. SCALE: 1" = 20'
V. SCALE: 1" = 4'

PLANS PREPARED UNDER THE
DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DESIGNED BY: JN

CHECKED BY: LDK

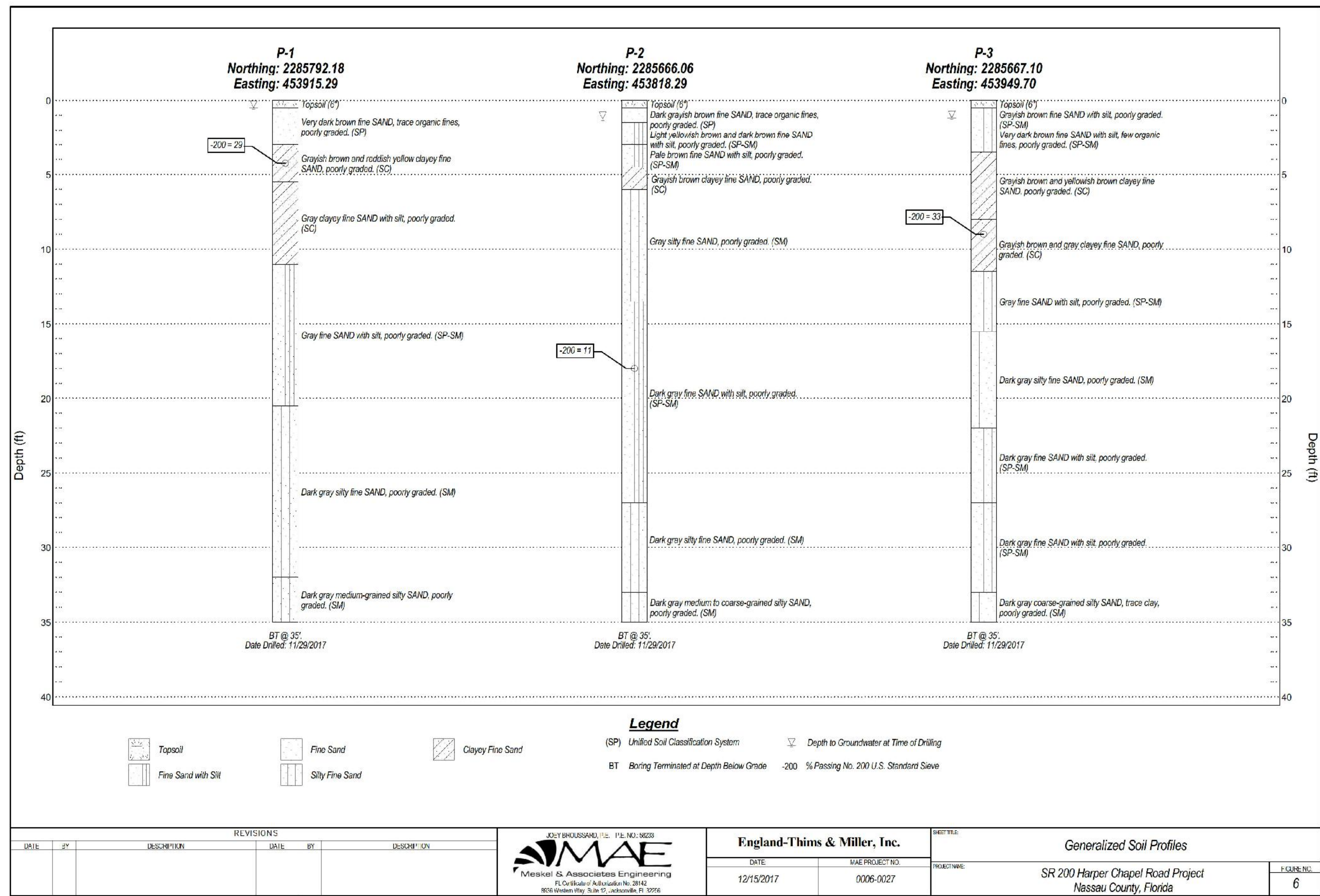
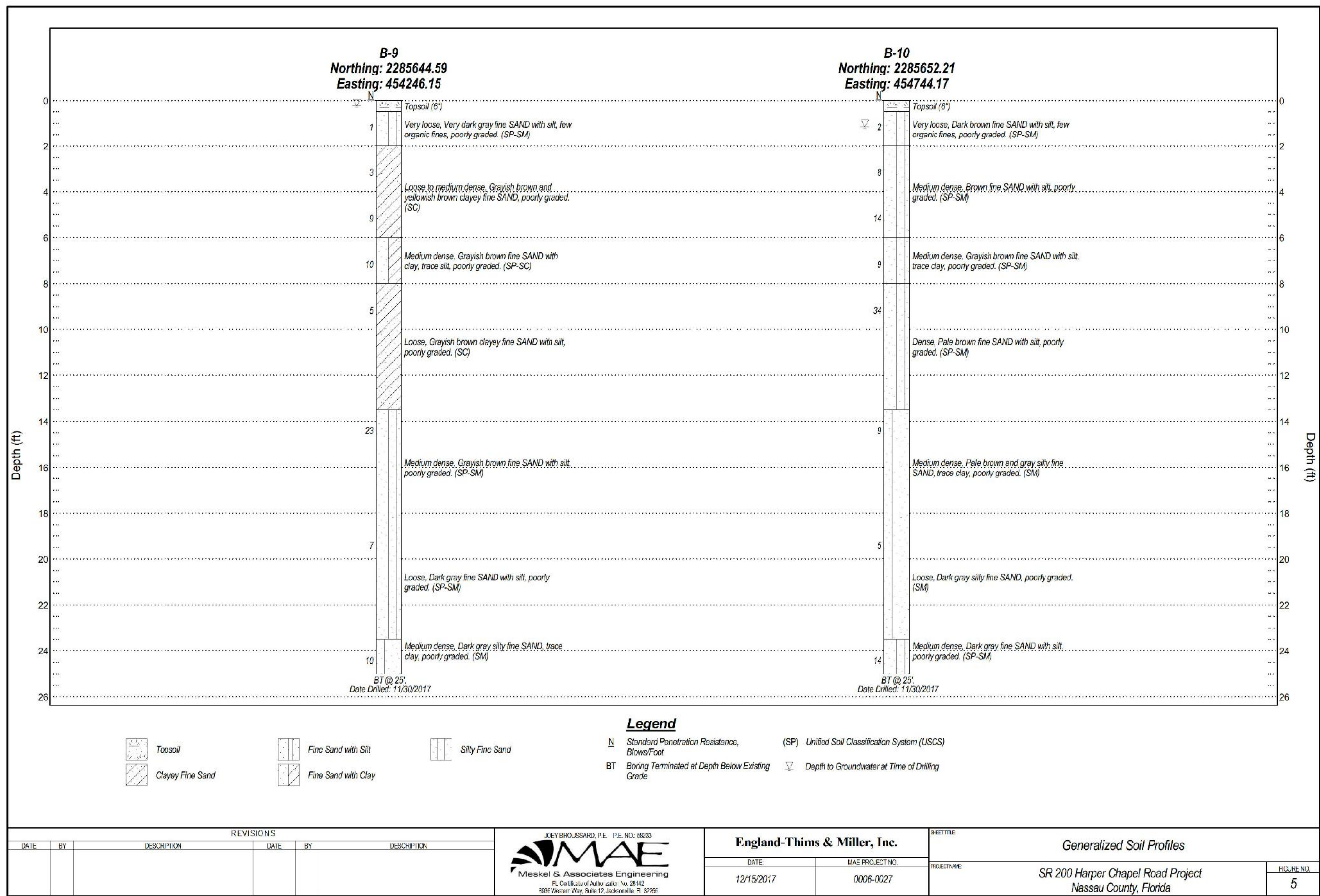
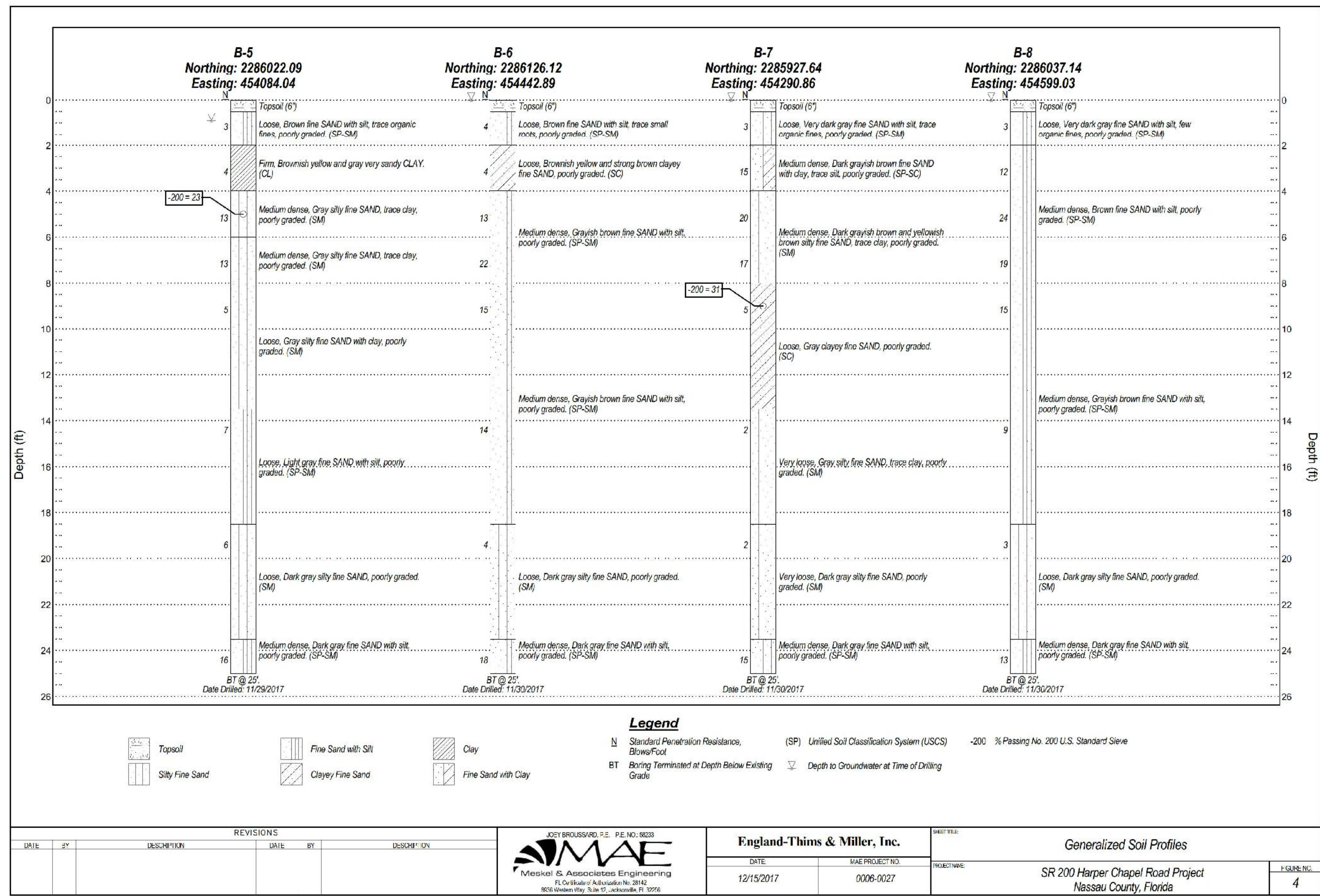
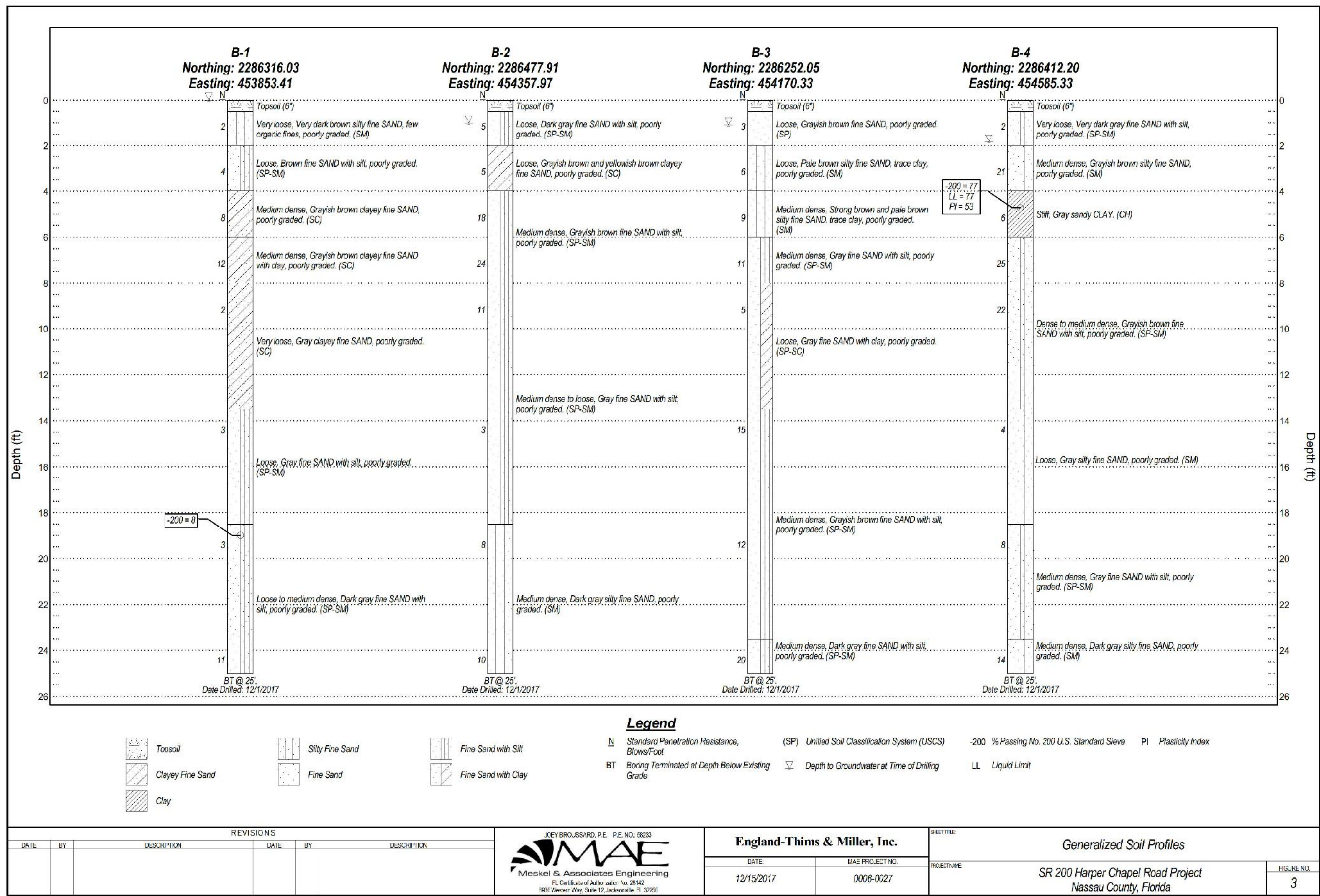
DATE: JUL 2020

English-Thins & Miller, Inc.
10001 S. W. 10th St.
Jacksonville, FL 32256
TEL: (904) 642-8890
FAX: (904) 646-9485
REG. #2884 LC #0000316

PAVING AND DRAINAGE DETAILS
FOR
BAPTIST WEST NASSAU MEDICAL VILLAGE
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER
8D

LYNDSEY KELLER
P.E. NUMBER: 77763
PLOTTED: April 16, 2021 - 9:35 AM BY: CAD Test



PLANS PREPARED UNDER THE DIRECTION OF: LYNDSAY KELLER, P.E. NUMBER: 77763

REVISIONS: ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thims & Miller, Inc. 1500 S.W. 15th Street, Suite 200, Jacksonville, FL 32209

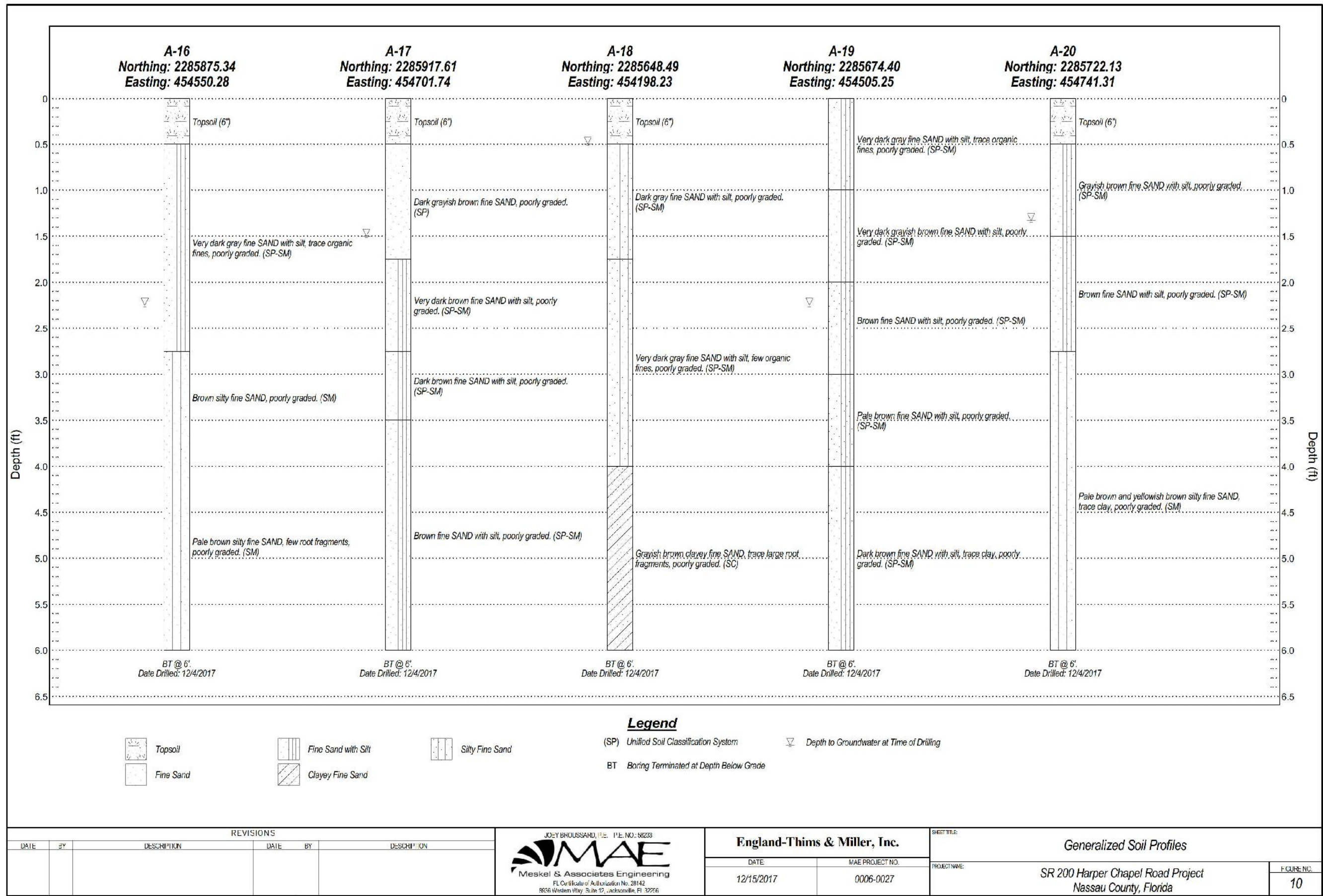
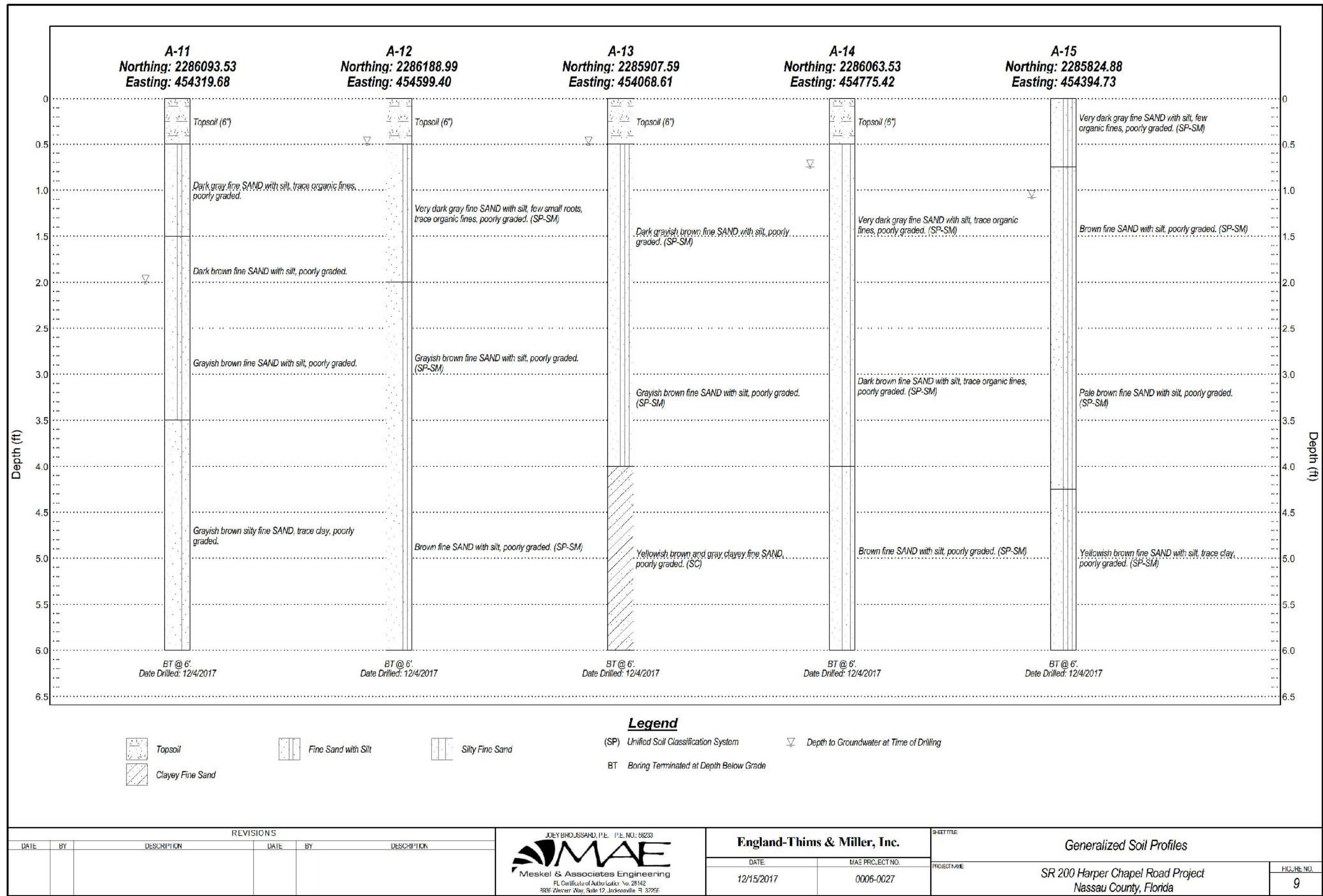
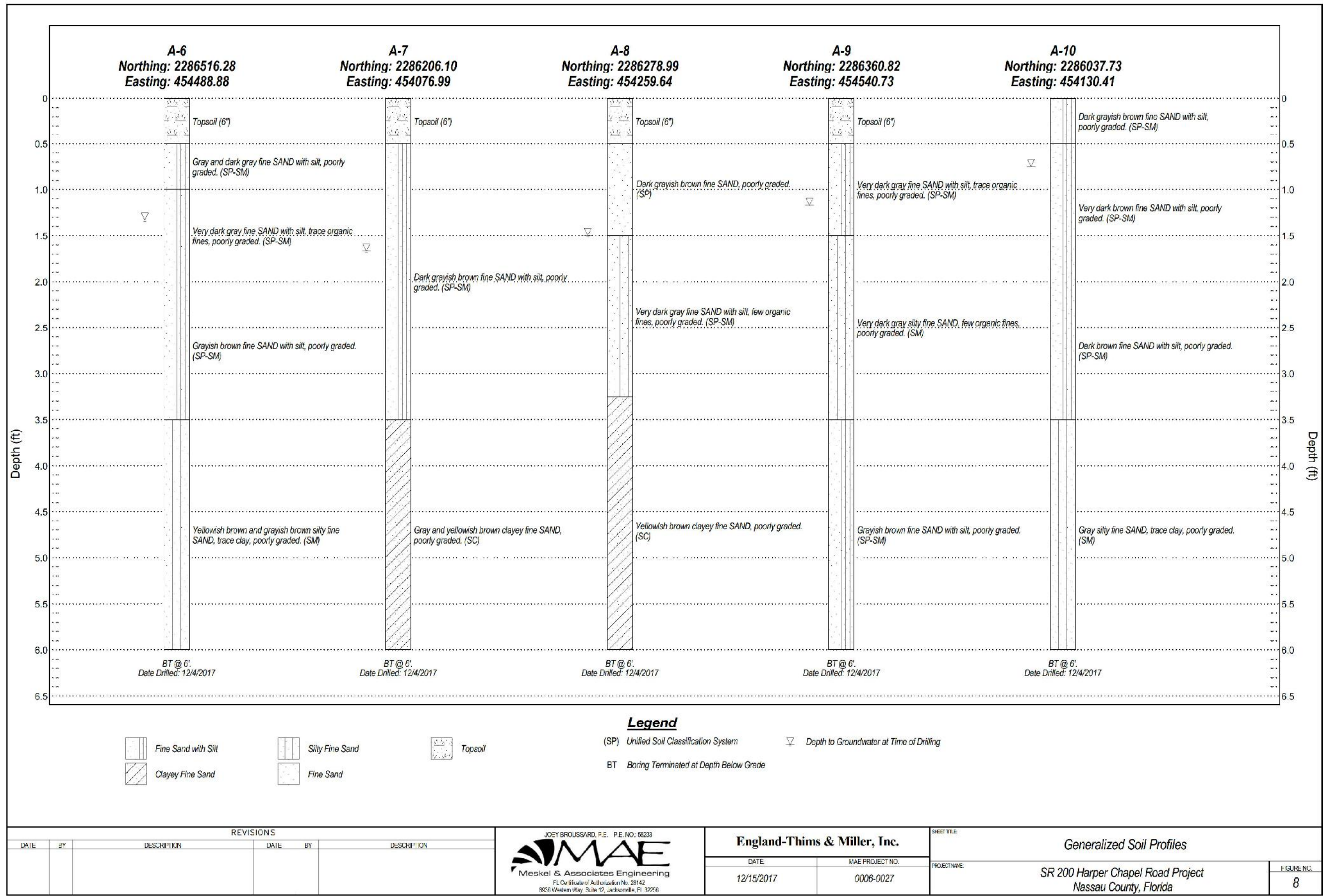
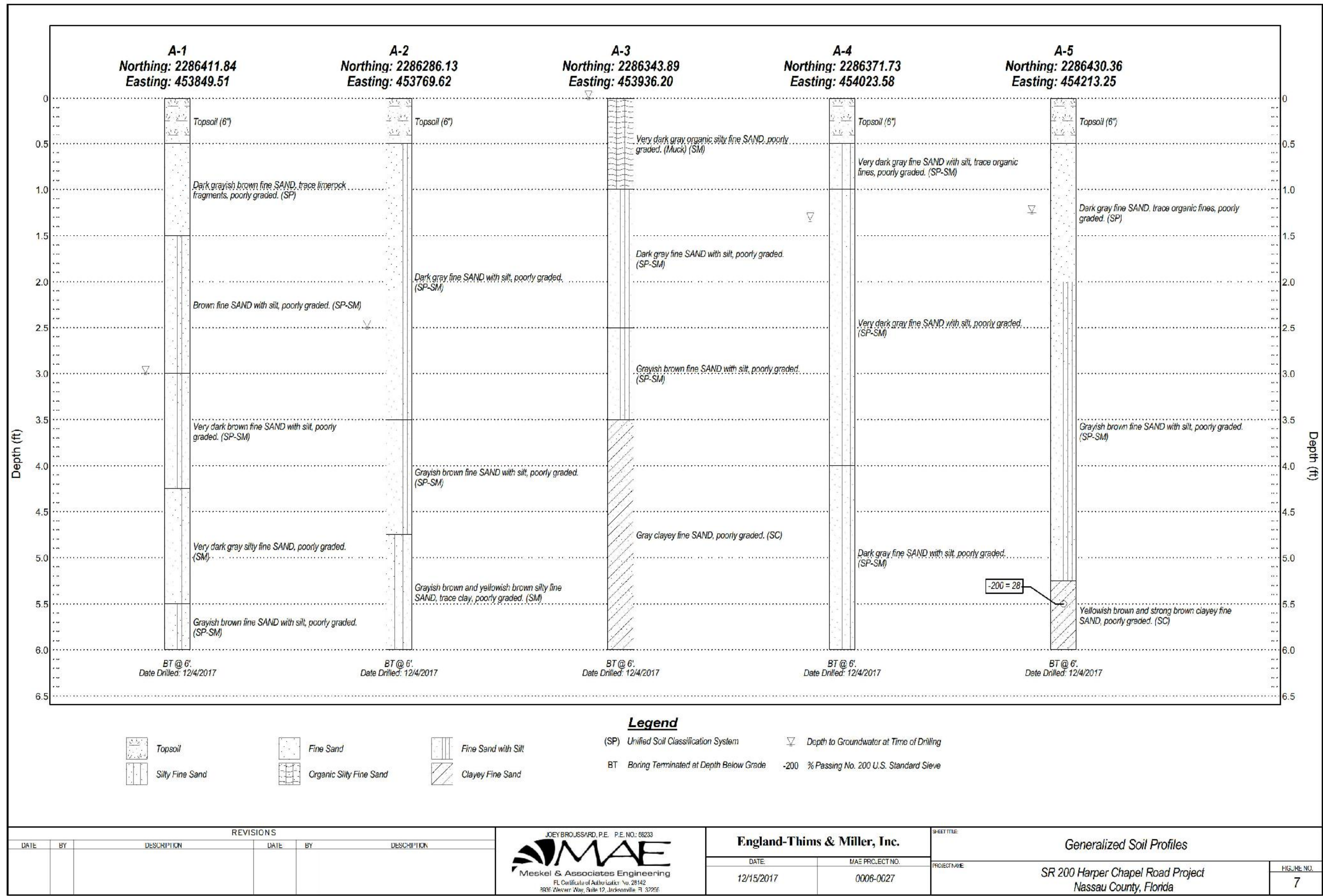
TEL: (904) 642-8890 FAX: (904) 642-9485 REG - 2584 LC - 0000316

VISION • EXPERIENCE • RESULTS

PAVING AND DRAINAGE DETAILS

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER 8E



PAVING AND DRAINAGE DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

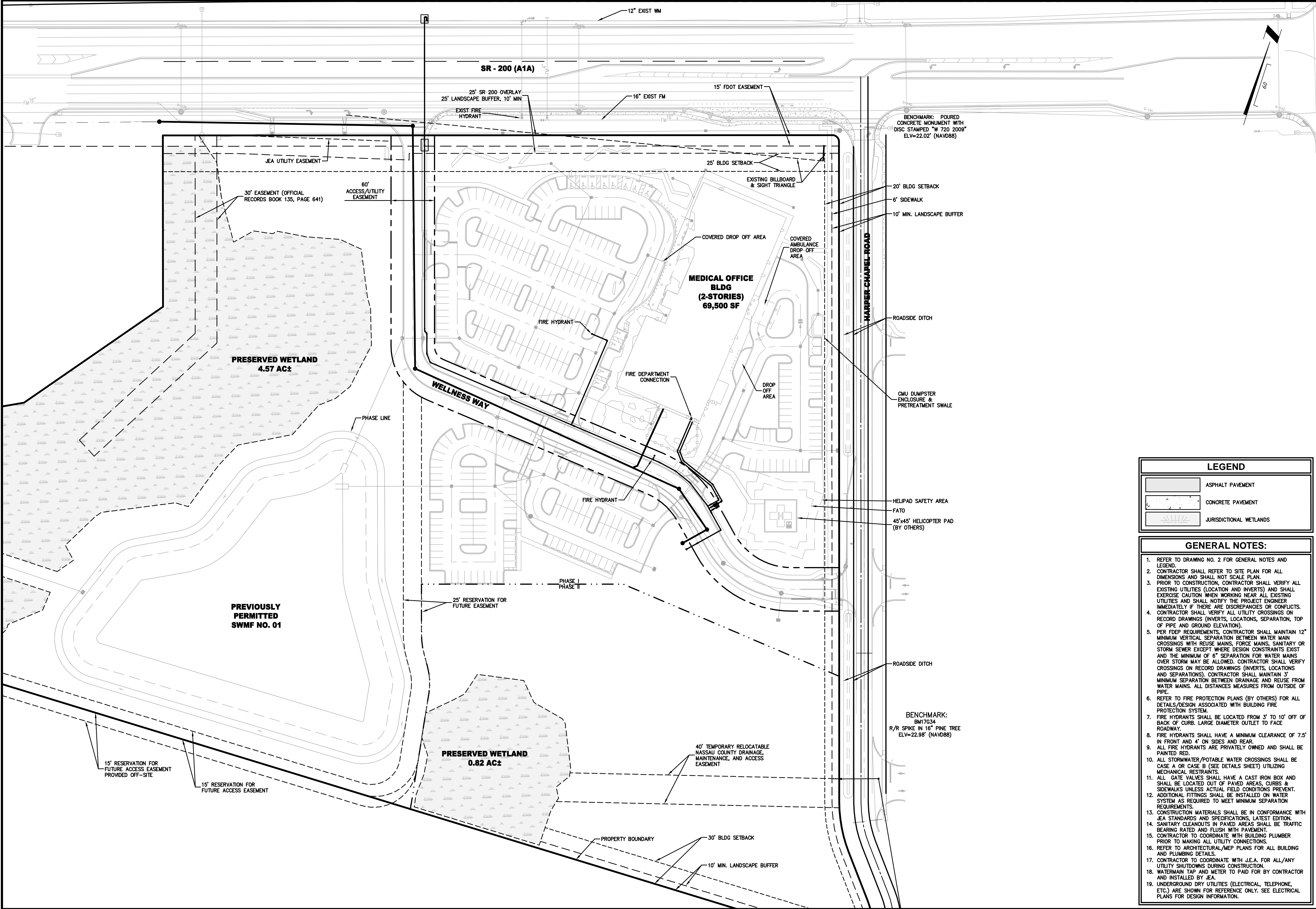
VISION • EXPERIENCE • RESULTS

English-Thims & Miller, Inc.
2000 West 1st Street
Jacksonville, FL 32208
TEL: (904) 642-8890
FAX: (904) 646-9485
REG - 2584 LC - 0000316

PLANS PREPARED UNDER THE
DIRECTION OF:
LYNDSEY KELLER
P.E. NUMBER: 77763

REVISIONS:
ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

DRAWING NUMBER
87



LEGEND

ASPHALT PAVEMENT

CONCRETE PAVEMENT

JURISDICTIONAL WETLANDS

GENERAL NOTES:

1. REFER TO DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.

2. CONTRACTOR SHALL REFER TO SITE PLAN FOR ALL DIMENSIONS AND SHALL NOT SCALE PLAN.

3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.

4. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE AND GROUND ELEVATION).

5. PER FDEP REQUIREMENTS, CONTRACTOR SHALL MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN CROSSINGS WITH REUSE MAINS, FORCE MAINS, SANITARY OR STORM SEWER EXCEPT WHERE DESIGN CONSTRAINTS EXIST AND THE MINIMUM OF 6" SEPARATION FOR WATER MAINS OVER STORM MAY BE ALLOWED. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS AND SEPARATIONS). CONTRACTOR SHALL MAINTAIN 3' MINIMUM SEPARATION BETWEEN DRAINAGE AND REUSE FROM WATER MAINS. ALL DISTANCES MEASURES FROM OUTSIDE OF PIPE.

6. REFER TO FIRE PROTECTION PLANS (BY OTHERS) FOR ALL DETAILS/DESIGN ASSOCIATED WITH BUILDING FIRE PROTECTION SYSTEM.

7. FIRE HYDRANTS SHALL BE LOCATED FROM 3' TO 10' OFF OF BACK OF CURB. LARGE DIAMETER OUTLET TO FACE ROADWAY.

8. FIRE HYDRANTS SHALL HAVE A MINIMUM CLEARANCE OF 7.5' IN FRONT AND 4' ON SIDES AND REAR.

9. ALL FIRE HYDRANTS ARE PRIVATELY OWNED AND SHALL BE PAINTED RED.

10. ALL STORMWATER/POTABLE WATER CROSSINGS SHALL BE CASE A OR CASE B (SEE DETAILS SHEET) UTILIZING MECHANICAL RESTRAINTS.

11. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUT OF PAVED AREAS, CURBS & SIDEWALKS UNLESS ACTUAL FIELD CONDITIONS PREVENT. ADDITIONAL FITTINGS SHALL BE INSTALLED ON WATER SYSTEM AS REQUIRED TO MEET MINIMUM SEPARATION REQUIREMENTS.

13. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH JEA STANDARDS AND SPECIFICATIONS, LATEST EDITION.

14. SANITARY CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING RATED AND FLUSH WITH PAVEMENT.

15. CONTRACTOR TO COORDINATE WITH BUILDING PLUMBER PRIOR TO MAKING ALL UTILITY CONNECTIONS.

16. REFER TO ARCHITECTURAL/MEP PLANS FOR ALL BUILDING AND PLUMBING DETAILS.

17. CONTRACTOR TO COORDINATE WITH J.E.A. FOR ALL/ANY UTILITY SHUTDOWNS DURING CONSTRUCTION.

18. WATERMAIN TAP AND METER TO PAID FOR BY CONTRACTOR AND INSTALLED BY J.E.A.

19. UNDERGROUND DRY UTILITIES (ELECTRICAL, TELEPHONE, ETC.) ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DESIGN INFORMATION.

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.
17501 St. Johns River Road
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 642-9485
REG - 2584 LC - 0000316

ETM

VISION • EXPERIENCE • RESULTS

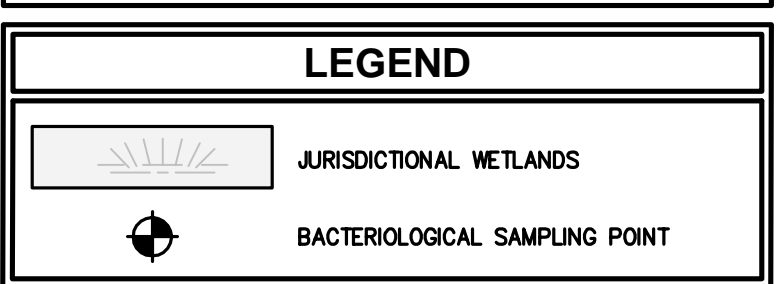
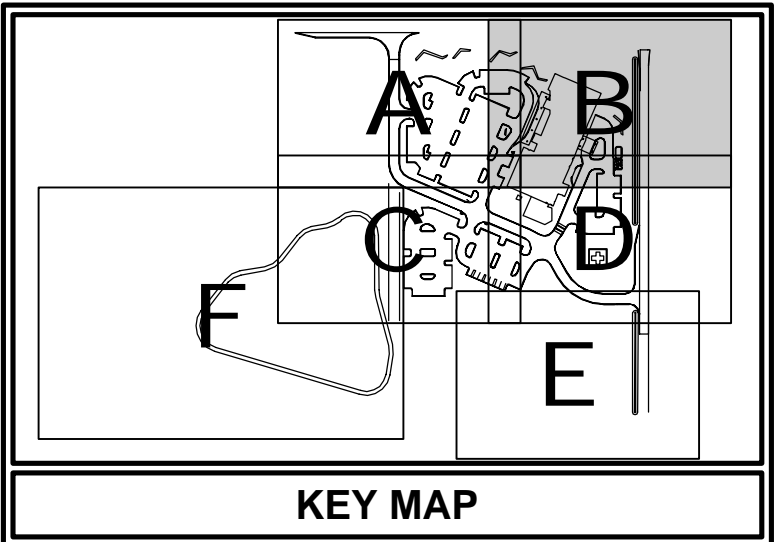
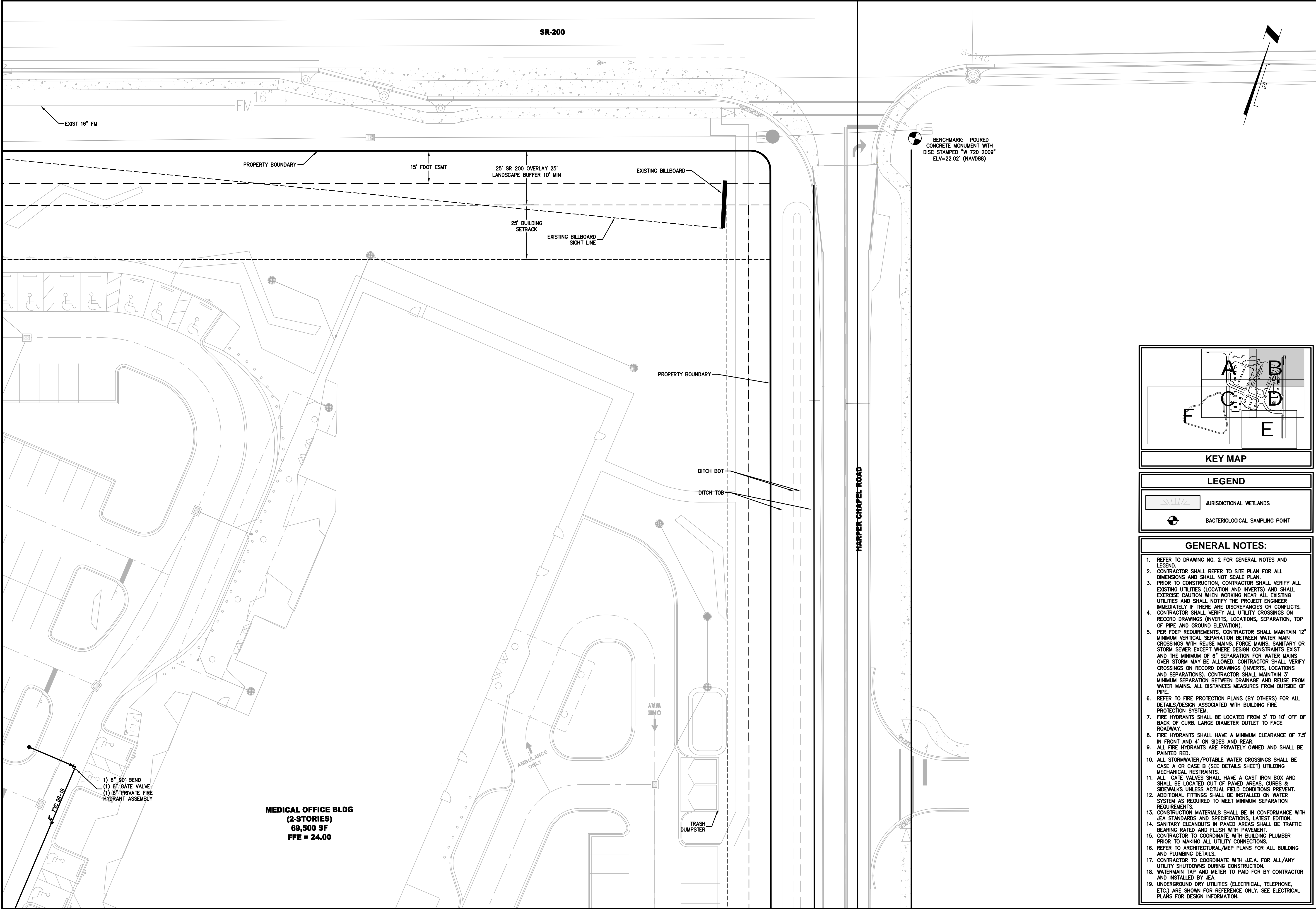
MASTER UTILITY PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

9

PLOTTED: April 16, 2021 - 9:36 AM. BY: CAD Test



- GENERAL NOTES:**
1. REFER TO DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
 2. CONTRACTOR SHALL REFER TO SITE PLAN FOR ALL DIMENSIONS AND SHALL NOT SCALE PLAN.
 3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
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 6. REFER TO FIRE PROTECTION PLANS (BY OTHERS) FOR ALL DETAILS/DESIGN ASSOCIATED WITH BUILDING FIRE PROTECTION SYSTEM.
 7. FIRE HYDRANTS SHALL BE LOCATED FROM 3' TO 10' OFF OF BACK OF CURB. LARGE DIAMETER OUTLET TO FACE ROADWAY.
 8. FIRE HYDRANTS SHALL HAVE A MINIMUM CLEARANCE OF 7.5' IN FRONT AND 4' ON SIDES AND REAR.
 9. ALL FIRE HYDRANTS ARE PRIVATELY OWNED AND SHALL BE PAINTED RED.
 10. ALL STORMWATER/POTABLE WATER CROSSINGS SHALL BE CASE A OR CASE B (SEE DETAILS SHEET) UTILIZING MECHANICAL RESTRAINTS.
 11. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUT OF PAVED AREAS, CURBS & SIDEWALKS UNLESS ACTUAL FIELD CONDITIONS PREVENT.
 12. ADDITIONAL FITTINGS SHALL BE INSTALLED ON WATER SYSTEM AS REQUIRED TO MEET MINIMUM SEPARATION REQUIREMENTS.
 13. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH JEA STANDARDS AND SPECIFICATIONS, LATEST EDITION.
 14. SANITARY CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING RATED AND FLUSH WITH PAVEMENT.
 15. CONTRACTOR TO COORDINATE WITH BUILDING PLUMBER PRIOR TO MAKING ALL UTILITY CONNECTIONS.
 16. REFER TO ARCHITECTURAL/MEP PLANS FOR ALL BUILDING AND PLUMBING DETAILS.
 17. CONTRACTOR TO COORDINATE WITH J.E.A. FOR ALL/ANY UTILITY SHUTDOWNS DURING CONSTRUCTION.
 18. WATERMAIN TAP AND METER TO PAID FOR BY CONTRACTOR AND INSTALLED BY J.E.A.
 19. UNDERGROUND DRY UTILITIES (ELECTRICAL, TELEPHONE, ETC.) ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DESIGN INFORMATION.

PLANS PREPARED UNDER THE DIRECTION OF:	
REVISIONS:	
ETM NO. 17-252-01-001	NEW
DRAWN BY:	DESIGNED BY: JN
CHECKED BY: LDK	DATE: JUL 2020

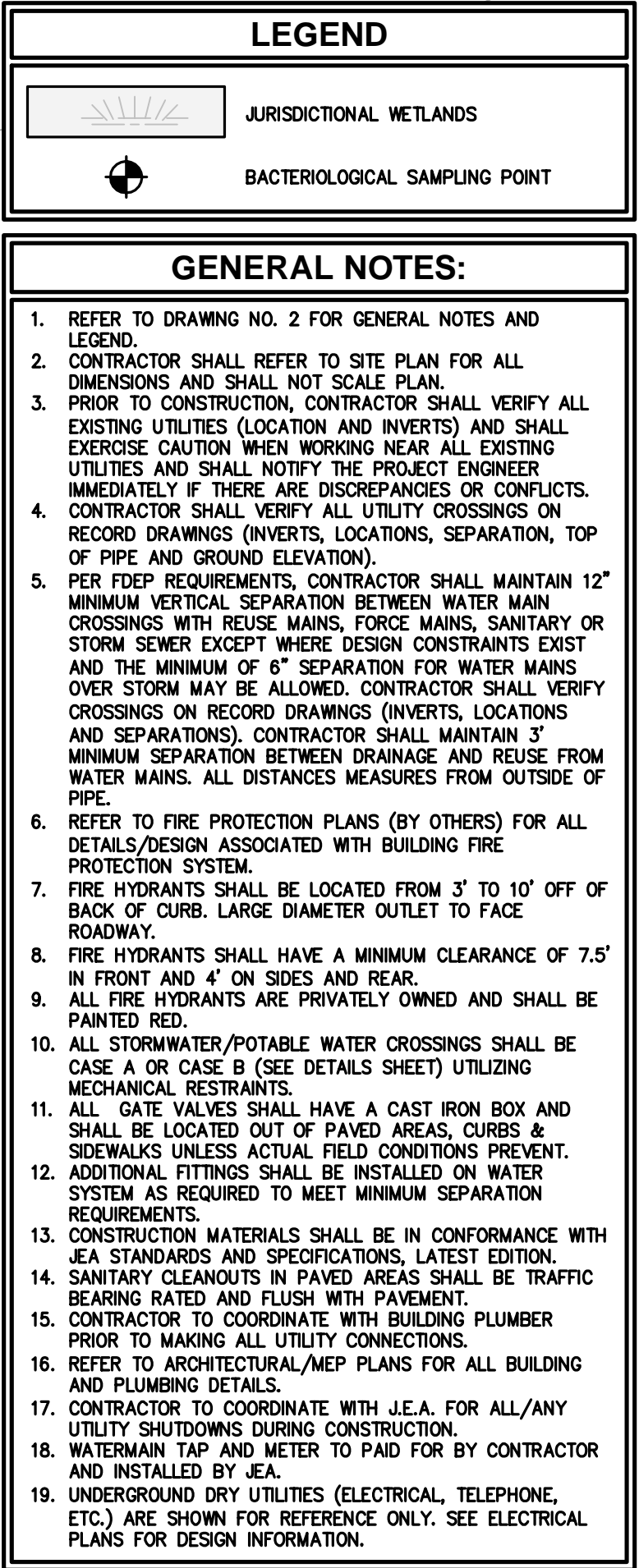
England-Thins & Miller, Inc.
17501 St. Johns Road
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 642-9485
REG - 2584 LC - 0000316

ETM
VISION • EXPERIENCE • RESULTS

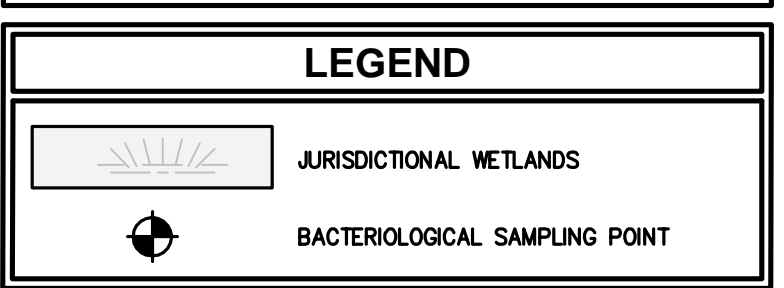
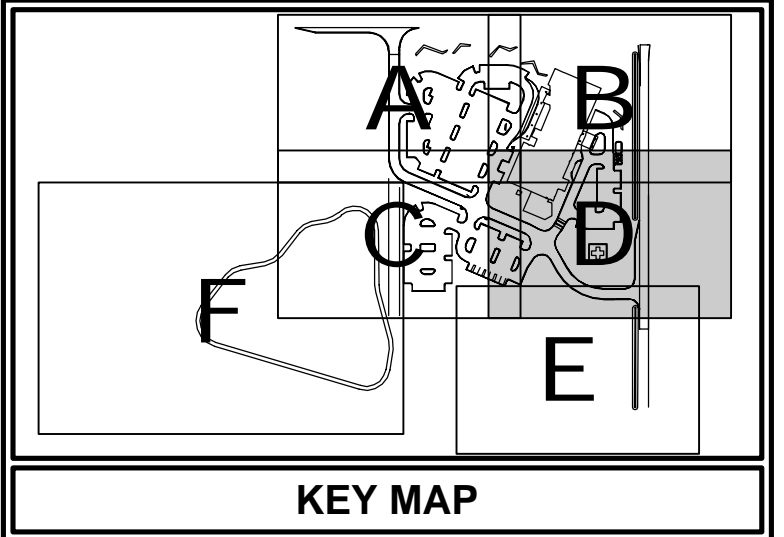
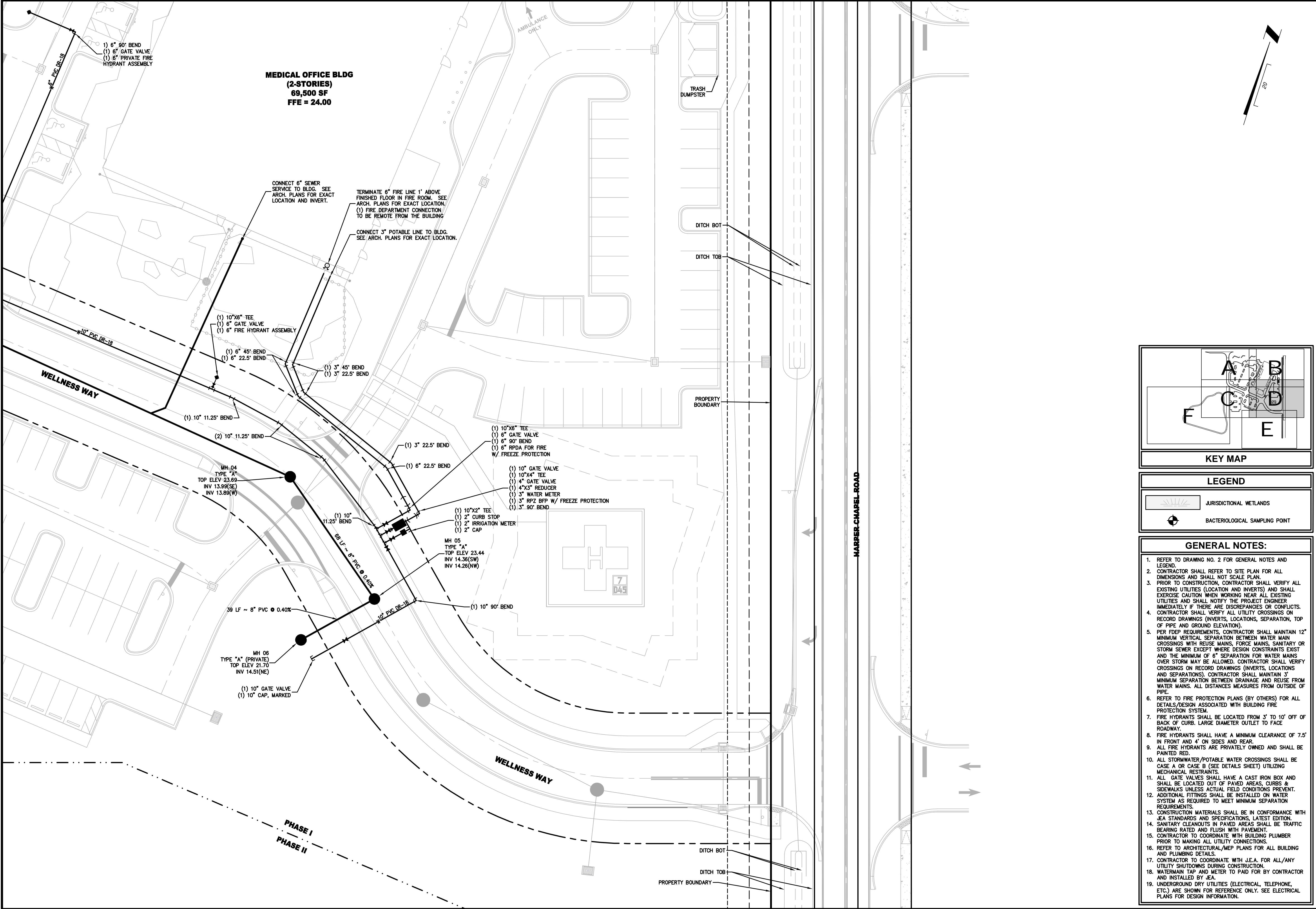
WATER AND SEWER PLAN

**BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.**

DRAWING NUMBER
10B

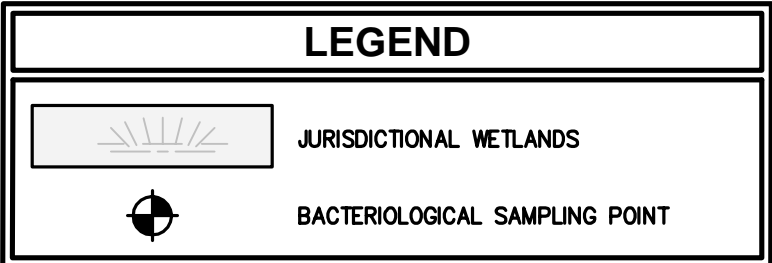
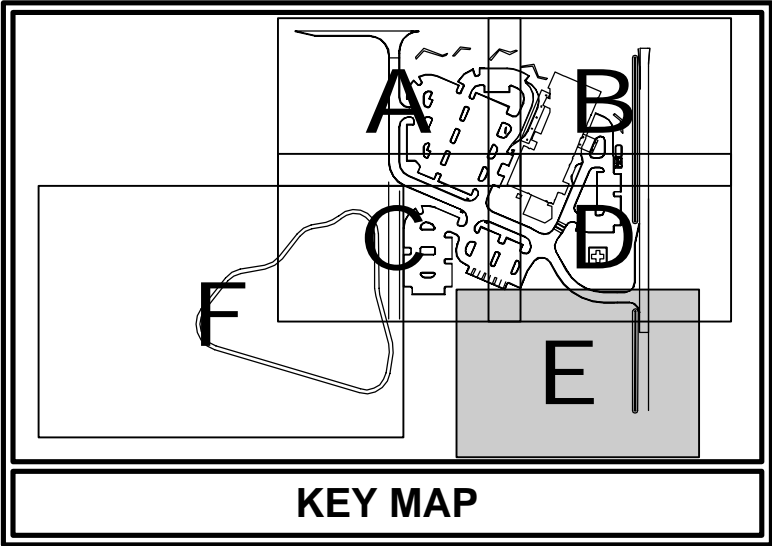
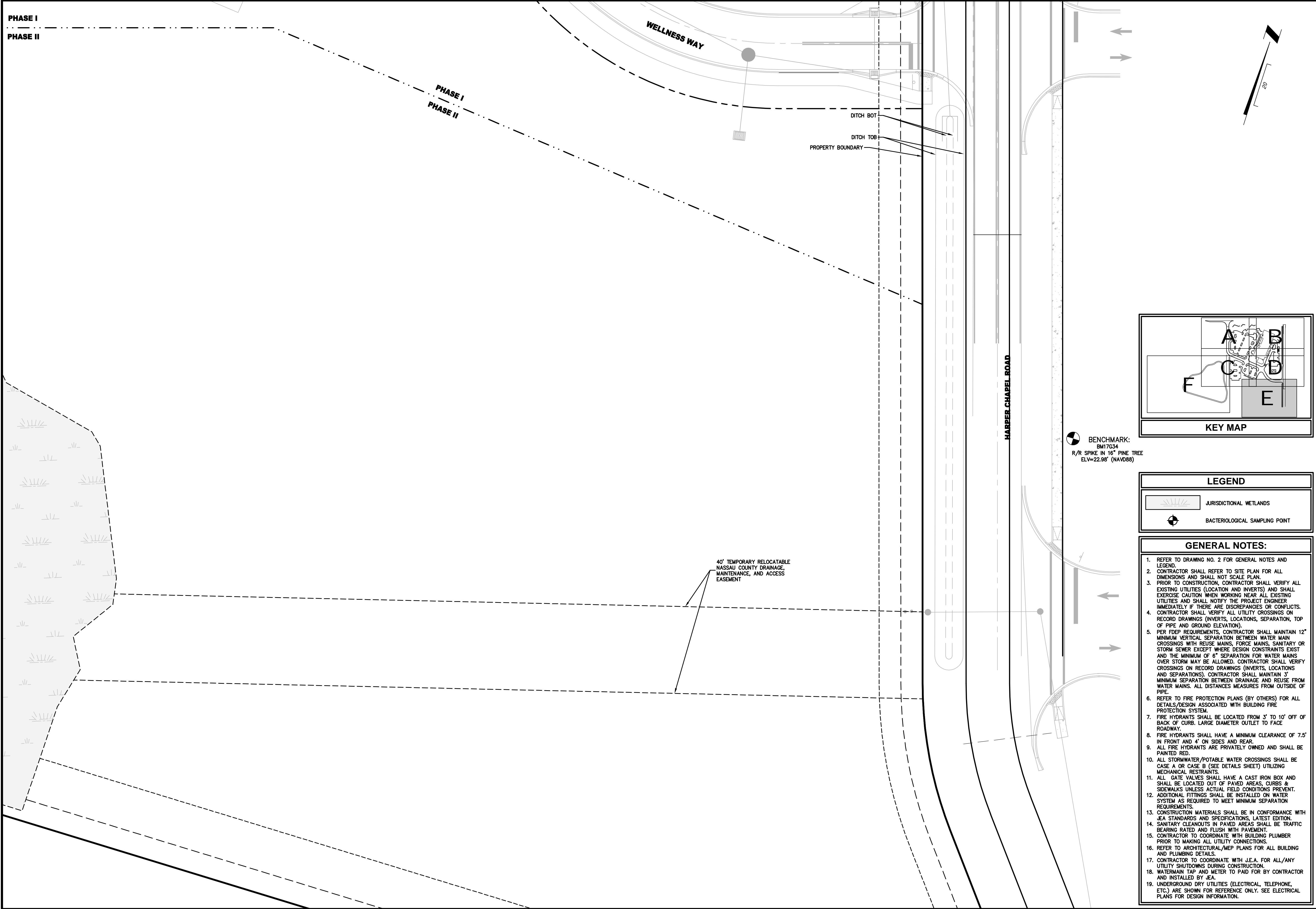


<p>WATER AND SEWER PLAN</p> <p>BAPTIST WEST NASSAU MEDICAL VILLAGE</p> <p>FOR</p> <p>BAPTIST HEALTH PROPERTIES, INC.</p>	<p>ETM</p> <p>VISION • EXPERIENCE • RESULTS</p>		<p>England-Thoms & Miller, Inc. 10000 Westchase Road Jacksonville, FL 32258 TEL: (904) 546-8400 FAX: (904) 546-3465 REG. #284 LC - 00000316</p>	<p>REVISIONS: 1-11-2020</p>	<p>ETM NO. 17-252-01-001</p>
	<p>DRAWN BY: MBW</p>	<p>DESIGNED BY: JN</p>			
	<p>CHECKED BY: LDK</p>	<p>DATE: JUL 2020</p>			
	<p>DIRECTION OF: NORTH</p>				
	<p>LYNDSAY KELLER P.E. NUMBER: 77763</p>				



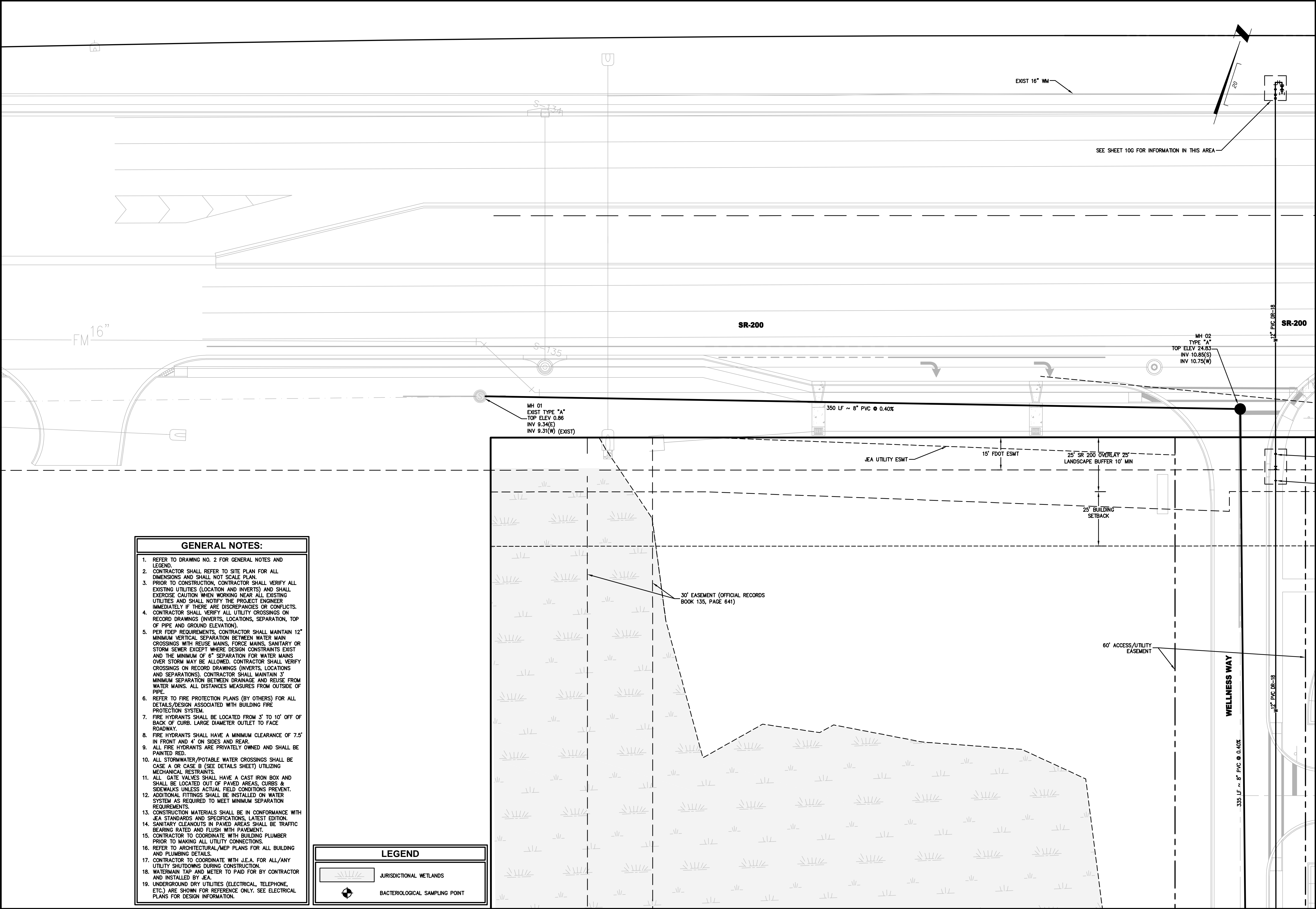
- GENERAL NOTES:**
- REFER TO DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
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 - WATERMAIN TAP AND METER TO PAID FOR BY CONTRACTOR AND INSTALLED BY JEA.
 - UNDERGROUND DRY UTILITIES (ELECTRICAL, TELEPHONE, ETC.) ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DESIGN INFORMATION.

PLANS PREPARED UNDER THE DIRECTION OF:		REVISIONS:		ETM NO. 17-252-01-001	DRAWN BY: NEW	DESIGNED BY: JN	CHECKED BY: LDK	DATE: JUL 2020
England-Thins & Miller, Inc. 17501 St. Augustine Road Jacksonville, FL 32228 TEL: (904) 642-8890 FAX: (904) 646-9485 REG - 2584 LC - 0000316		ETM VISION • EXPERIENCE • RESULTS						
WATER AND SEWER PLAN		BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.						
DRAWING NUMBER		10D						



- GENERAL NOTES:**
- REFER TO DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
 - CONTRACTOR SHALL REFER TO SITE PLAN FOR ALL DIMENSIONS AND SHALL NOT SCALE PLAN.
 - PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERIOSE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
 - CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE AND GROUND ELEVATION).
 - PER FDEP REQUIREMENTS, CONTRACTOR SHALL MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN CROSSINGS WITH REUSE MAINS, FORCE MAINS, SANITARY OR STORM SEWER EXCEPT WHERE DESIGN CONSTRAINTS EXIST AND THE MINIMUM OF 6" SEPARATION FOR WATER MAINS OVER STORM MAY BE ALLOWED. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS AND SEPARATIONS). CONTRACTOR SHALL MAINTAIN 3' MINIMUM SEPARATION BETWEEN DRAINAGE AND REUSE FROM WATER MAINS. ALL DISTANCES MEASURES FROM OUTSIDE OF PIPE.
 - REFER TO FIRE PROTECTION PLANS (BY OTHERS) FOR ALL DETAILS/DESIGN ASSOCIATED WITH BUILDING FIRE PROTECTION SYSTEM.
 - FIRE HYDRANTS SHALL BE LOCATED FROM 3' TO 10' OFF OF BACK OF CURB. LARGE DIAMETER OUTLET TO FACE ROADWAY.
 - FIRE HYDRANTS SHALL HAVE A MINIMUM CLEARANCE OF 7.5' IN FRONT AND 4' ON SIDES AND REAR.
 - ALL FIRE HYDRANTS ARE PRIVATELY OWNED AND SHALL BE PAINTED RED.
 - ALL STORMWATER/POTABLE WATER CROSSINGS SHALL BE CASE A OR CASE B (SEE DETAILS SHEET) UTILIZING MECHANICAL RESTRAINTS.
 - ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUT OF PAVED AREAS, CURBS & SIDEWALKS UNLESS ACTUAL FIELD CONDITIONS PREVENT.
 - ADDITIONAL FITTINGS SHALL BE INSTALLED ON WATER SYSTEM AS REQUIRED TO MEET MINIMUM SEPARATION REQUIREMENTS.
 - CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH J.E.A. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
 - SANITARY CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING RATED AND FLUSH WITH PAVEMENT.
 - CONTRACTOR TO COORDINATE WITH BUILDING PLUMBER PRIOR TO MAKING ALL UTILITY CONNECTIONS.
 - REFER TO ARCHITECTURAL/MEP PLANS FOR ALL BUILDING AND PLUMBING DETAILS.
 - CONTRACTOR TO COORDINATE WITH J.E.A. FOR ALL/ANY UTILITY SHUTDOWNS DURING CONSTRUCTION.
 - WATERMAIN TAP AND METER TO PAID FOR BY CONTRACTOR AND INSTALLED BY J.E.A.
 - UNDERGROUND DRY UTILITIES (ELECTRICAL, TELEPHONE, ETC.) ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DESIGN INFORMATION.

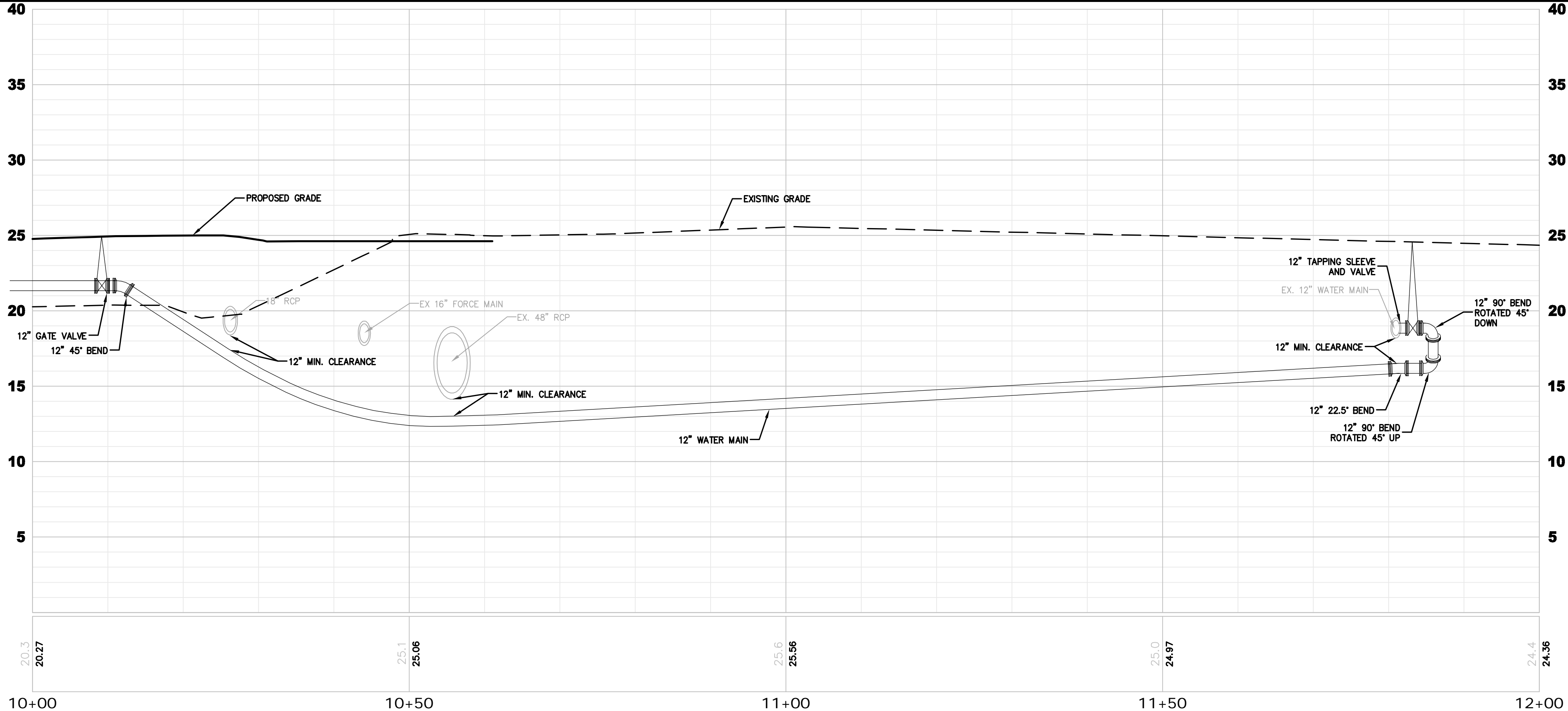
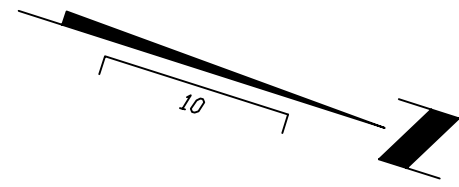
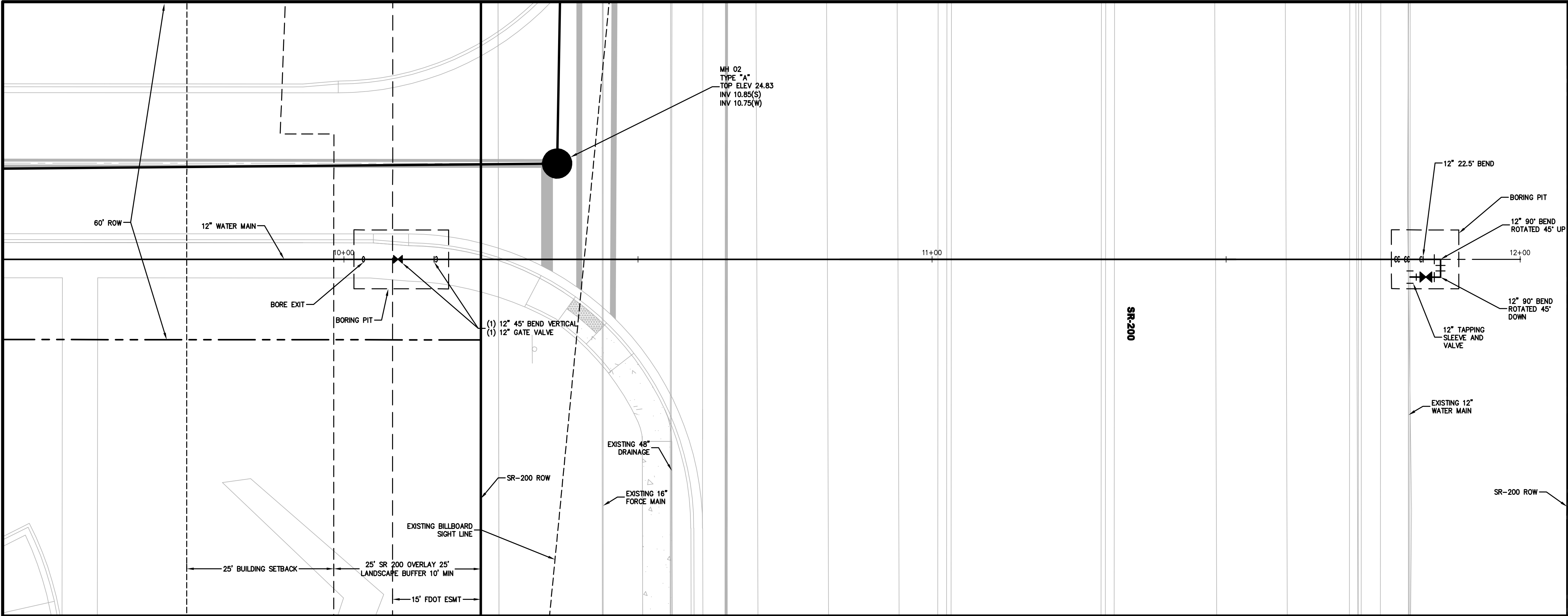
PLANS PREPARED UNDER THE DIRECTION OF: LYNDSEY KELLER P.E. NUMBER: 77763	
ETM VISION • EXPERIENCE • RESULTS	ETM NO. 17-252-01-001 DRAWN BY: NEW DESIGNED BY: JN CHECKED BY: LDK DATE: JUL 2020
England-Thins & Miller, Inc. 17501 St. Augustine Road Jacksonville, FL 32228 TEL: (904) 642-8890 FAX: (904) 646-3485 REG -2584 LC -0000316	
WATER AND SEWER PLAN BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.	
DRAWING NUMBER 10E	



- GENERAL NOTES:**
1. REFER TO DRAWING NO. 2 FOR GENERAL NOTES AND LEGEND.
 2. CONTRACTOR SHALL REFER TO SITE PLAN FOR ALL DIMENSIONS AND SHALL NOT SCALE PLAN.
 3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES (LOCATION AND INVERTS) AND SHALL EXERCISE CAUTION WHEN WORKING NEAR ALL EXISTING UTILITIES AND SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES OR CONFLICTS.
 4. CONTRACTOR SHALL VERIFY ALL UTILITY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS, SEPARATION, TOP OF PIPE AND GROUND ELEVATION).
 5. PER FDEP REQUIREMENTS, CONTRACTOR SHALL MAINTAIN 12" MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN CROSSINGS WITH REUSE MAINS, FORCE MAINS, SANITARY OR STORM SEWER EXCEPT WHERE DESIGN CONSTRAINTS EXIST AND THE MINIMUM OF 6" SEPARATION FOR WATER MAINS OVER STORM MAY BE ALLOWED. CONTRACTOR SHALL VERIFY CROSSINGS ON RECORD DRAWINGS (INVERTS, LOCATIONS AND SEPARATIONS). CONTRACTOR SHALL MAINTAIN 3" MINIMUM SEPARATION BETWEEN DRAINAGE AND REUSE FROM WATER MAINS. ALL DISTANCES MEASURES FROM OUTSIDE OF PIPE.
 6. REFER TO FIRE PROTECTION PLANS (BY OTHERS) FOR ALL DETAILS/DESIGN ASSOCIATED WITH BUILDING FIRE PROTECTION SYSTEM.
 7. FIRE HYDRANTS SHALL BE LOCATED FROM 3' TO 10' OFF OF BACK OF CURB. LARGE DIAMETER OUTLET TO FACE ROADWAY.
 8. FIRE HYDRANTS SHALL HAVE A MINIMUM CLEARANCE OF 7.5' IN FRONT AND 4' ON SIDES AND REAR.
 9. ALL FIRE HYDRANTS ARE PRIVATELY OWNED AND SHALL BE PAINTED RED.
 10. ALL STORMWATER/POTABLE WATER CROSSINGS SHALL BE CASE A OR CASE B (SEE DETAILS SHEET) UTILIZING MECHANICAL RESTRAINTS.
 11. ALL GATE VALVES SHALL HAVE A CAST IRON BOX AND SHALL BE LOCATED OUT OF PAVED AREAS, CURBS & SIDEWALKS UNLESS ACTUAL FIELD CONDITIONS PREVENT.
 12. ADDITIONAL FITTINGS SHALL BE INSTALLED ON WATER SYSTEM AS REQUIRED TO MEET MINIMUM SEPARATION REQUIREMENTS.
 13. CONSTRUCTION MATERIALS SHALL BE IN CONFORMANCE WITH J.E.A. STANDARDS AND SPECIFICATIONS, LATEST EDITION.
 14. SANITARY CLEANOUTS IN PAVED AREAS SHALL BE TRAFFIC BEARING RATED AND FLUSH WITH PAVEMENT.
 15. CONTRACTOR TO COORDINATE WITH BUILDING PLUMBER PRIOR TO MAKING ALL UTILITY CONNECTIONS.
 16. REFER TO ARCHITECTURAL/MEP PLANS FOR ALL BUILDING AND PLUMBING DETAILS.
 17. CONTRACTOR TO COORDINATE WITH J.E.A. FOR ALL/ANY UTILITY SHUTDOWNS DURING CONSTRUCTION.
 18. WATERMAIN TAP AND METER TO PAID FOR BY CONTRACTOR AND INSTALLED BY J.E.A.
 19. UNDERGROUND DRY UTILITIES (ELECTRICAL, TELEPHONE, ETC.) ARE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DESIGN INFORMATION.

LEGEND	
	JURISDICTIONAL WETLANDS
	BACTERIOLOGICAL SAMPLING POINT

PLANS PREPARED UNDER THE DIRECTION OF:		REVISIONS:		ETM NO. 17-252-01-001					
LYNDSEY KELLER P.E. NUMBER: 77763		---		DRAWN BY: NEW					
				DESIGNED BY: JN					
				CHECKED BY: LDK					
				DATE: JUL 2020					
England-Thins & Miller, Inc. 10001 St. Andrews Road Jacksonville, FL 32228 TEL: (904) 642-8890 FAX: (904) 646-9485 REG - 2584 LC - 0000316									
ETM VISION • EXPERIENCE • RESULTS									
OFFSITE WATER AND SEWER PLAN			BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.						
DRAWING NUMBER			10F						



WATER MAIN DIRECTIONAL DRILL
(10+00.00-12+00.00)

H. SCALE: 1" = 10'
V. SCALE: 1" = 5'

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.
17501 S. Highway 1
Jacksonville, FL 32218
TEL: (904) 642-8890
FAX: (904) 646-9485
REG - 2584 LC - 0000316

ETM
VISION • EXPERIENCE • RESULTS

WATER CONNECTION PLAN AND PROFILE
FOR
BAPTIST WEST NASSAU MEDICAL VILLAGE
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER
10G

LYNDSEY KELLER
P.E. NUMBER: 77763
PLOTTED: April 16, 2021 - 9:37 AM. BY: CAD Test

HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS

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

NOTES:

- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTH, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH.
- THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
- DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
- WATER MAIN SHOULD CROSS ABOVE OTHER PIPES WHENEVER POSSIBLE. WHEN WATER MAIN MUST BE BELOW OTHER UTILITY PIPING, THE MINIMUM SEPARATION SHALL BE 12 INCHES.
- REFER TO POTABLE WATER PIPING- SECTION 350, III.4.1.1.

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS

JANUARY 2020

PLATE W-10

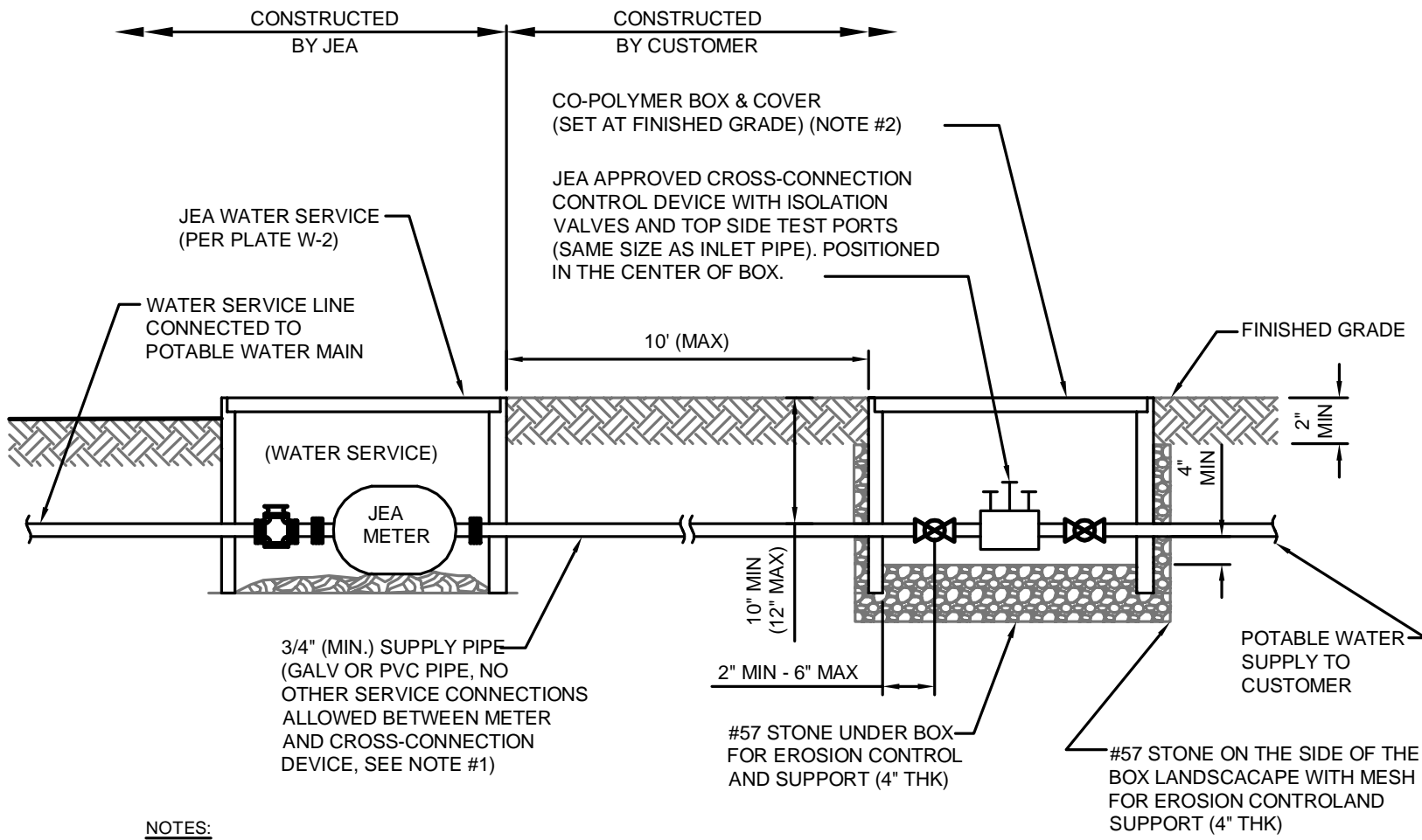
WATER MAIN AND NON-WATER MAIN SEPARATION REQUIREMENTS - NOTES

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

NOTES ON UTILITY SEPARATION REQUIREMENTS

JANUARY 2020

PLATE W-11



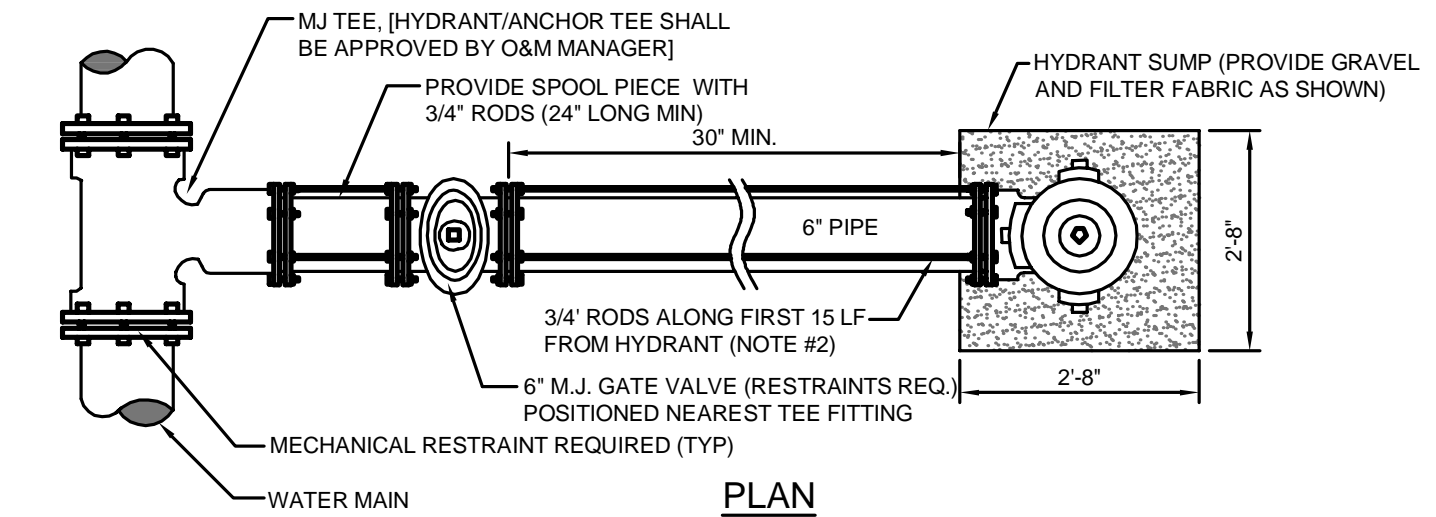
NOTES:

- THE POTABLE WATER CUSTOMER IS REQUIRED TO INSTALL AND MAINTAIN A JEA APPROVED CROSS-CONNECTION DEVICE ON THEIR POTABLE WATER SERVICE LINE. OPERATION AND MAINTENANCE OF THIS CROSS-CONNECTION DEVICE SHALL COMPLY WITH JEA'S CROSS-CONNECTION CONTROL PROGRAM AND ASSOCIATED OPERATIONS POLICIES. ALL REDUCED PRESSURE ASSEMBLIES SHALL BE MOUNTED ABOVE GRADE.
- ONLY DOUBLE CHECK VALVE ASSEMBLIES MAY BE INSTALLED BELOW GROUND. THESE DEVICES MAY BE INSTALLED IN A TYPICAL 1" (CO-POLYMER) METER BOX WITH SOLID LID (GENERIC LID WITH NO "JEA" LOGO, SEE ALSO W-3). THE SIZE OF BOX SHALL BE 12"x20" AT A MINIMUM. IT SHALL BE NOTED THAT IF THE HIGH MEAN GROUND WATER LEVEL FALLS INSIDE THIS BOX, THEN THE CROSS-CONNECTION CONTROL DEVICE MUST BE INSTALLED ABOVE GROUND. ACCEPTABLE DOUBLE CHECK VALVE ASSEMBLIES (BRONZE BODY WITH TWO CHECK VALVES, TWO BALL VALVES AND UNION CONNECTIONS BETWEEN BALL VALVES AND THE DEVICE), INCLUDE: WATTS U007M2QT, WILKINS 950XLTU OR JEA APPROVED EQUAL.
- BACKFLOW PREVENTION DEVICES REQUIRED WHEN:
IRRIGATION SYSTEMS - REQUIRED ON IRRIGATION SYSTEMS AT THE CONNECTION TO POTABLE SYATEM
RESIDENTIAL SYSTEMS - REQUIRED ON WATER SERVICE IF RECLAIMED SERVICE WATER AVAILABLE TO SITE
COMMERCIAL SITES - REQUIRED ON ALL WATER SERVICES
INDUSTRIAL SITES - REQUIRED ON BOTH WATER AND RECLAIMED SERVICE ON, WATER SERVICE EVEN IF NO RECLAIMED
- JEA IRRIGATION SERVICE CONNECTIONS REQUIRE ABOVE GRADE REDUCED PRESSURE BACKFLOW PREVENTERS, (SEE PLATE W-15A)

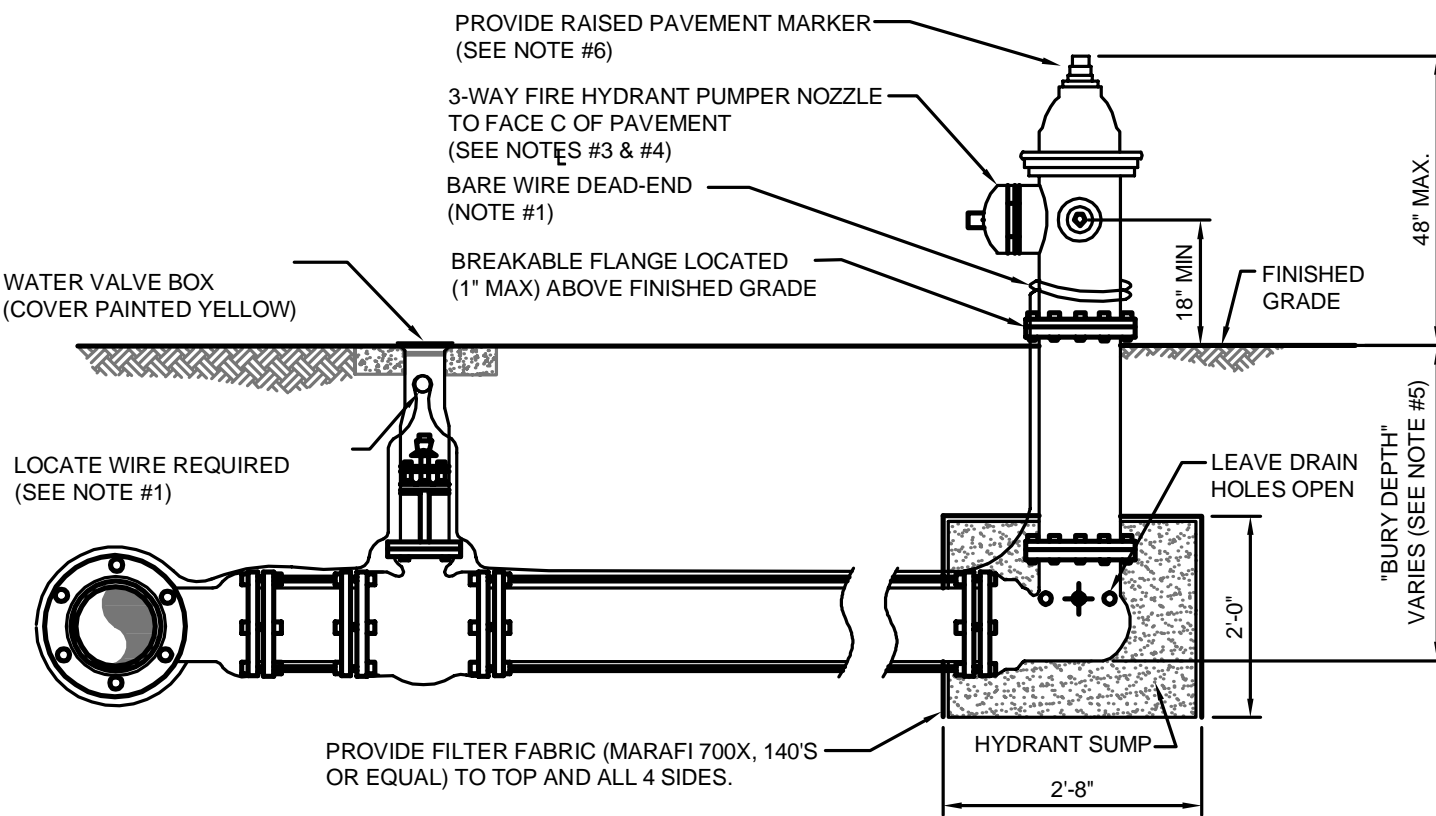
RECLAIM CROSS CONNECTION CONTROL DEVICE

JANUARY 2020

PLATE W-15



PLAN



SECTION

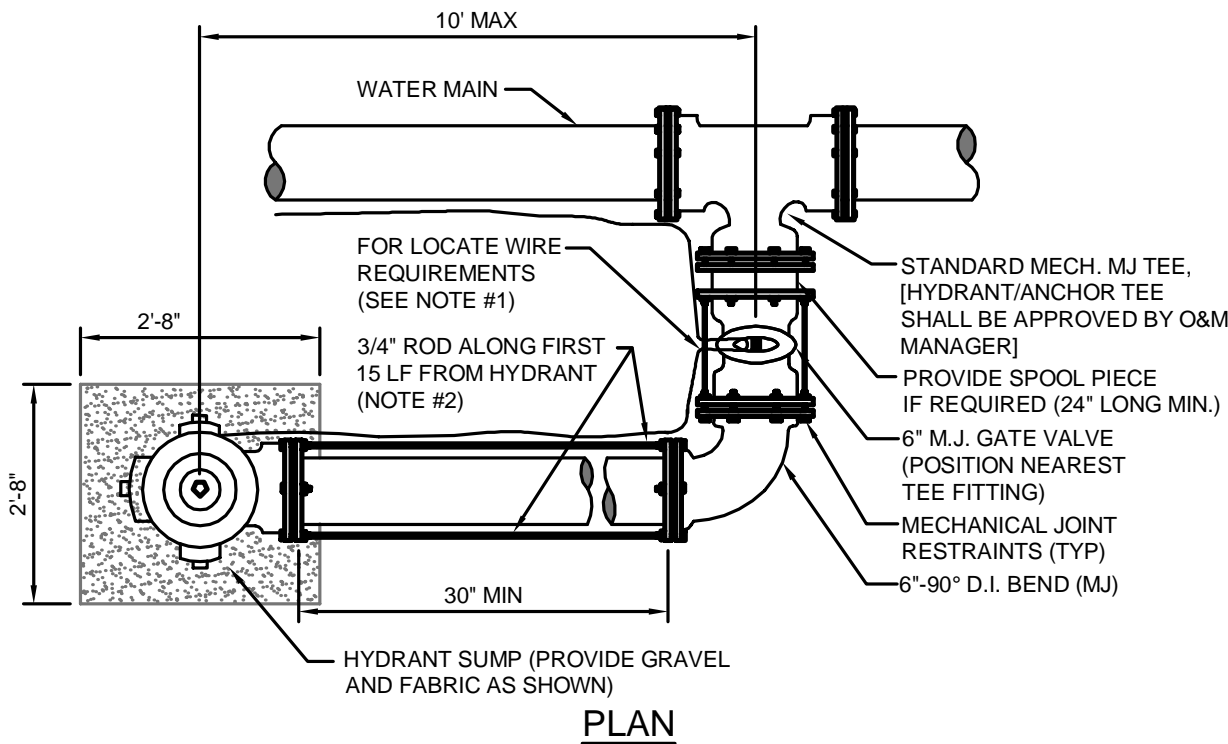
NOTES:

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

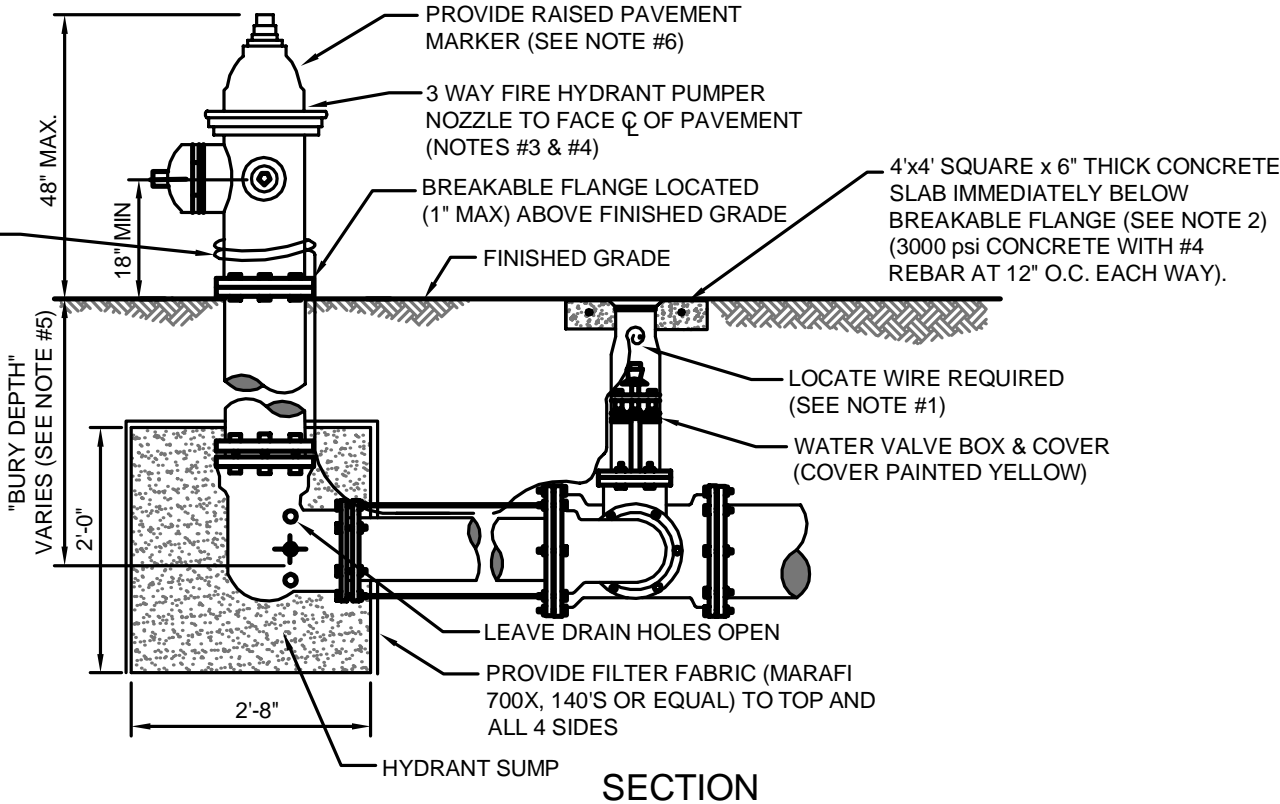
FIRE HYDRANT INSTALLATION USING MECHANICAL JOINT TEE

JANUARY 2020

PLATE W-13



PLAN



SECTION

NOTES:

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

FIRE HYDRANT INSTALLATION LIMITED SPACE

JANUARY 2020

PLATE W-14

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
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FAX: (904) 642-9895
E-MAIL: info@etm-inc.com
CA 0002894 LC 0000316

ETM
VISION • EXPERIENCE • RESULTS

THESE DETAILS AS SHOWN ON THIS DRAWING ARE BY THE JEA. WE TAKE NO EXCEPTION TO THE DESIGN

DESIGNER:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

DESIGN ENGINEER:
LYNDSEY KELLER
FLORIDA REGISTRATION NO.:
77763

PROJ. NO.:
17-252-01-001

DATE:
JANUARY 2020

SCALE:
AS NOTED

NO. SHEETS
1

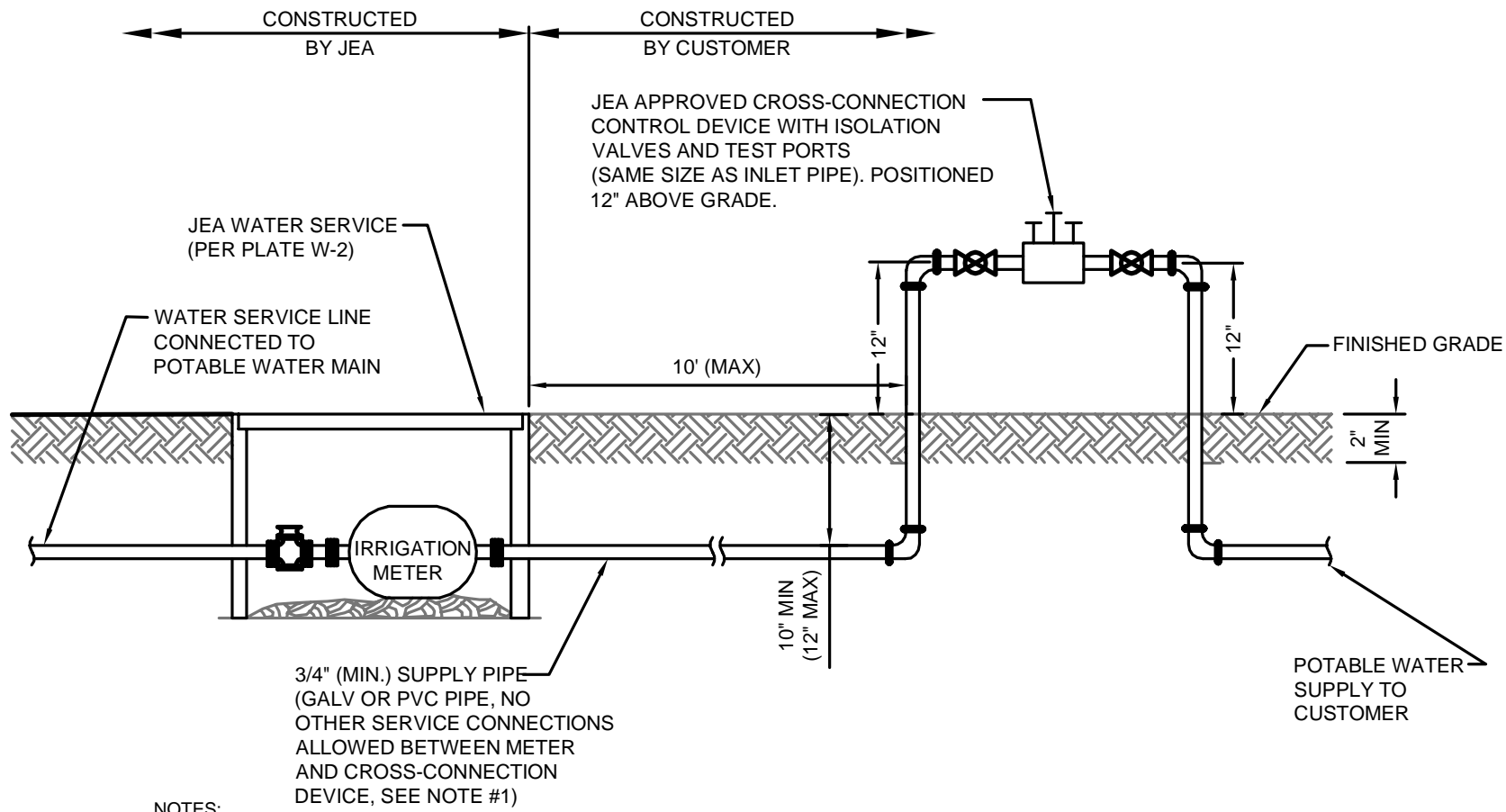
SHEET NO.
5

DRAWING NO.
11B

JEA STANDARD
WATER AND RECLAIM DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

Building Community™

SR 20017-252-01-001\London\Design\Plots\JEA_Water_and_Reclaimed_Details_Master_01-2020_17-252-01-001.dwg PLOTTED: Apr. 16, 21 — 9:36 AM, BY: CAD Test



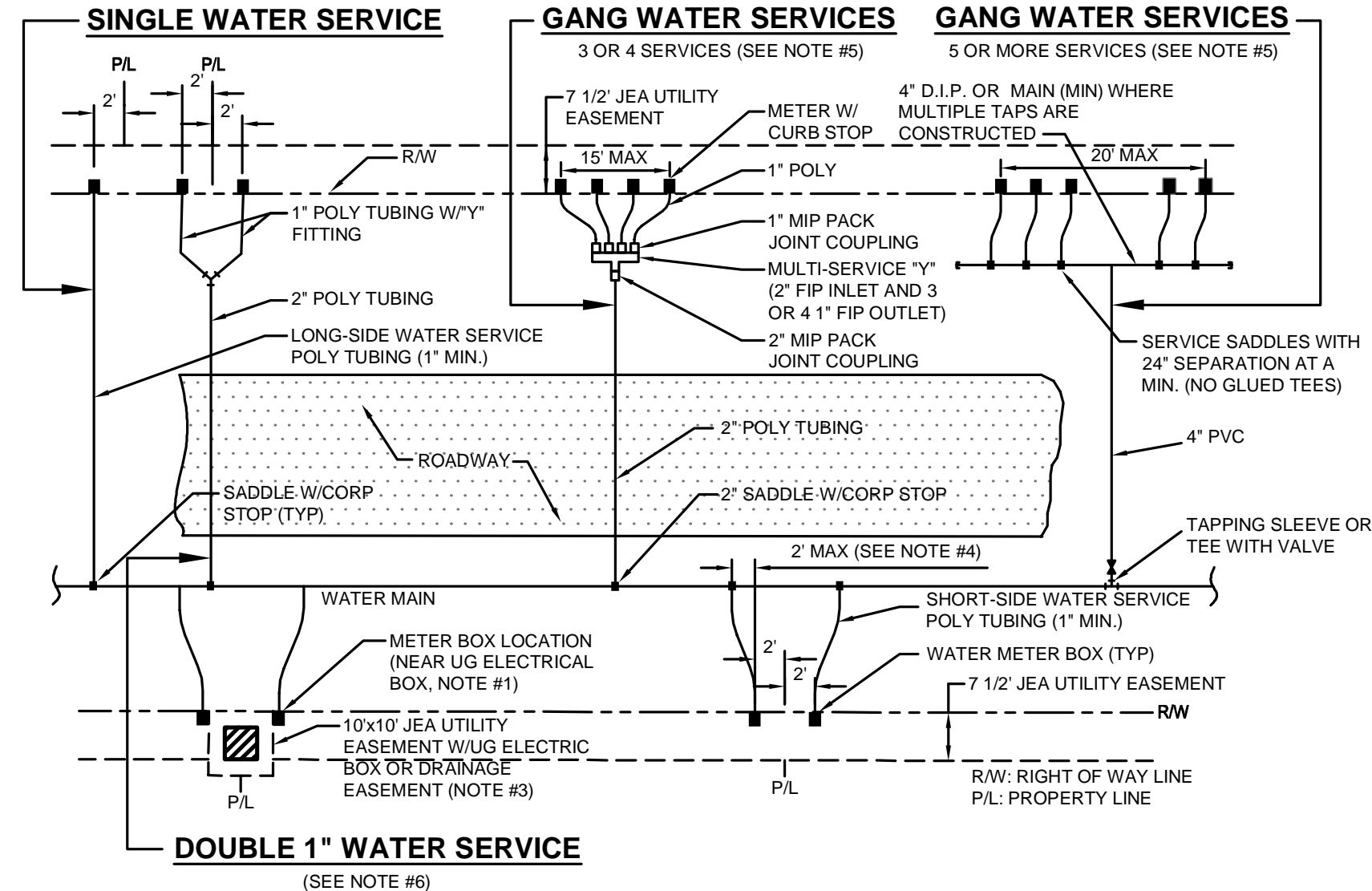
NOTES:

1. WATER SERVICE CONNECTIONS REQUIRE ABOVE GRADE REDUCED PRESSURE BACKFLOW PREVENTERS. (SEE PLATE W-15)
2. BACKFLOW PREVENTION DEVICES REQUIRED WHEN:
IRRIGATION SYSTEMS - REQUIRED ON IRRIGATION SYSTEMS AT THE CONNECTION TO POTABLE SYSTEM
RESIDENTIAL SYSTEMS - REQUIRED ON WATER SERVICE IF RECLAIMED SERVICE WATER AVAILABLE TO SITE
COMMERCIAL SITES - REQUIRED ON ALL WATER SERVICES
INDUSTRIAL SITES - REQUIRED ON BOTH WATER AND RECLAIMED SERVICE CONNECTIONS.
3. RESIDENTIAL IRRIGATION SERVICES MAY UTILIZE AN ALTERNATE BACKFLOW PREVENTER LOCATION IF THE FOLLOWING CONDITIONS EXIST:
3.a. CUSTOMER HAS SUBMITTED A COMPLETED "CUSTOMER AFFIDAVIT" FORM AND
3.b. THERE ARE NO ADDITIONAL CONNECTIONS BETWEEN THE METER AND THE BACKFLOW PREVENTER, AND
3.c. THE ALTERNATE BACKFLOW LOCATION IS EASILY ACCESSIBLE TO JEA AND BACKFLOW TESTERS.

CROSS CONNECTION CONTROL DEVICE

JANUARY 2020 JEA IRRIGATION SERVICE CONNECTIONS PLATE W-15A

A LOCATE WIRE SHALL BE PLACED ON SERVICES 10FT OR GREATER.



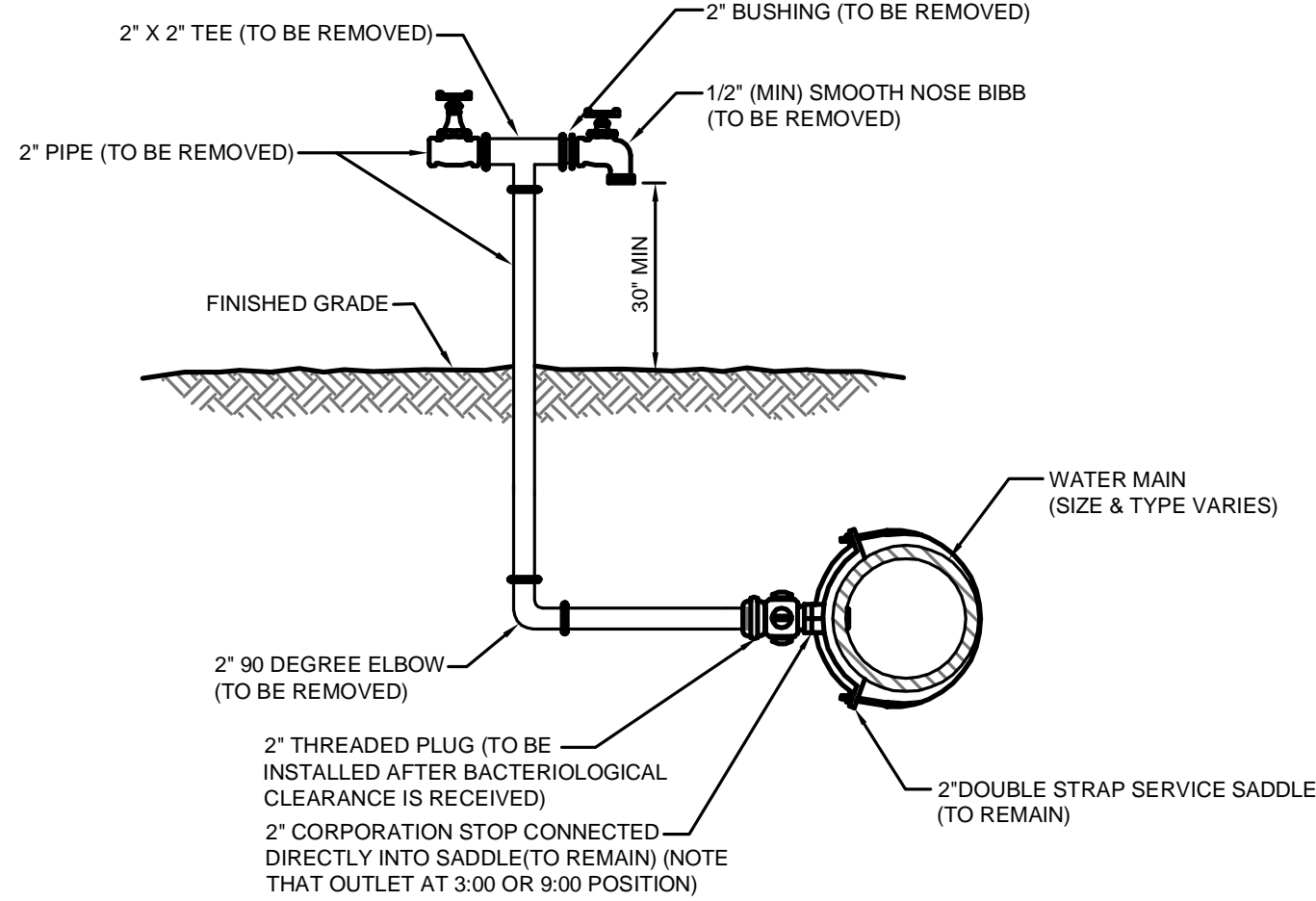
NOTES:

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2' ELECTRIC EASEMENT.
2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY (NASSAU, CLAY OR ST. JOHNS COUNTY), THE METER BOX SHALL BE LOCATED IN THE JEA 7 1/2' UTILITY EASEMENT, AND THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES IF A CONFLICT EXISTS WITH OTHER UTILITIES. THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET), UNLESS APPROVED OTHERWISE BY JEA. THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY JEA TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-384, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND TOP). SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY JEA, THEN THE CONTRACTOR OR CUSTOMER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. JEA SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
3. IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES. LOCATE WIRE IS REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. IF LOCATE WIRE IS REQUIRED, THE WIRE SHALL RUN FROM THE METER BOX (W/ PIG TAIL) TO THE MAIN (DEAD END SHALL BE TAPPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED OF INSULATION/BARE WIRE AS GROUND). ALL EXCEPTIONS TO THIS REQUIREMENT MUST BE APPROVED BY JEA. THIS WILL ASSIST IN LOCATING EXISTING SERVICE LINES IN THE FUTURE.
5. GANG WATER SERVICES: FOR 3 OR 4 SERVICES IN ONE AREA, A DUCTILE IRON PIPE (D.I.P.) WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS. LOCATE WIRE SHALL EXTEND FROM ONE METER BOX TO CORP STOP AT WATER MAIN. FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN EXTENSION W/LOCATE WIRE MAY BE UTILIZED ON EITHER SHORT-SIDE OR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER MIN). FOR WATER SUPPLY HEADERS WHERE 5 OR MORE TAPS ARE CONSTRUCTED, THE HEADER PIPE SHALL BE 4" AT A MINIMUM. EXAMPLE: CONSTRUCT A 4" MAIN PVC CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" DIP, 4" PIPE, 4"x1" SADDLES AND 1" CORP STOPS (NO GLUED TEE FITTINGS), THE 4" OR LARGER D.I.P. WATER MAIN MUST BE SIZED AND DESIGNED BY THE P.E. ENGINEER.
6. DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
7. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING. (IN AREAS WHERE NO RECLAIMED WATER IS AVAILABLE).
8. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
9. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED, AT A MIN. OF 10' FROM THE POTABLE WATER SERVICE, AND/OR BOX AND NOT ALLOWED IN CONCRETE OR ASPHALT UNLESS APPROVED OTHERWISE BY JEA.
10. SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS
2" AND SMALLER METER

JANUARY 2020

PLATE W-1



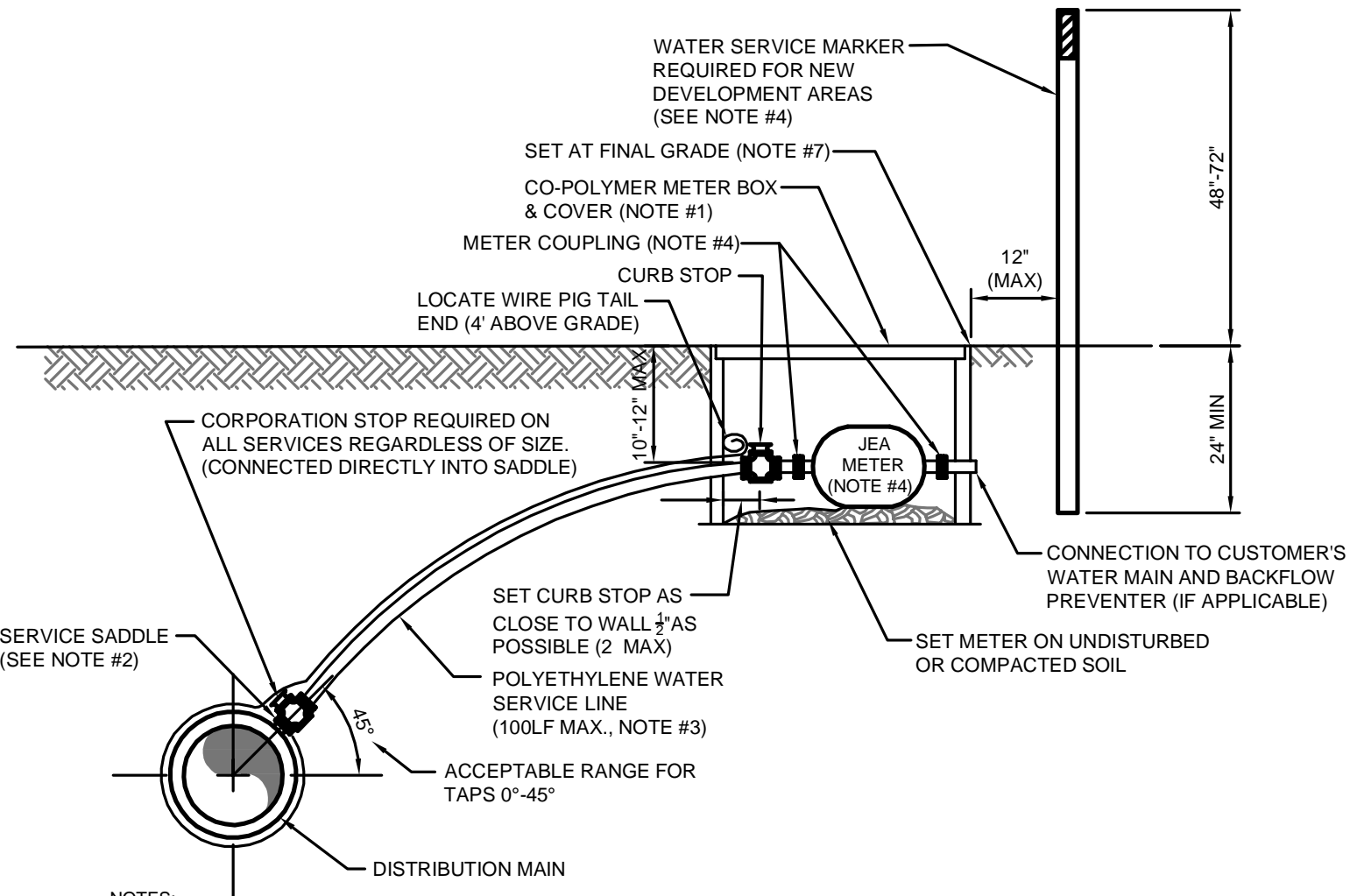
NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC (S-40).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTING (AS NOTED) AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
4. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICES AS OUTLINED BY THE JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

2" TEMPORARY SAMPLE TAP FOR STUB OUT

JANUARY 2020

PLATE W-26



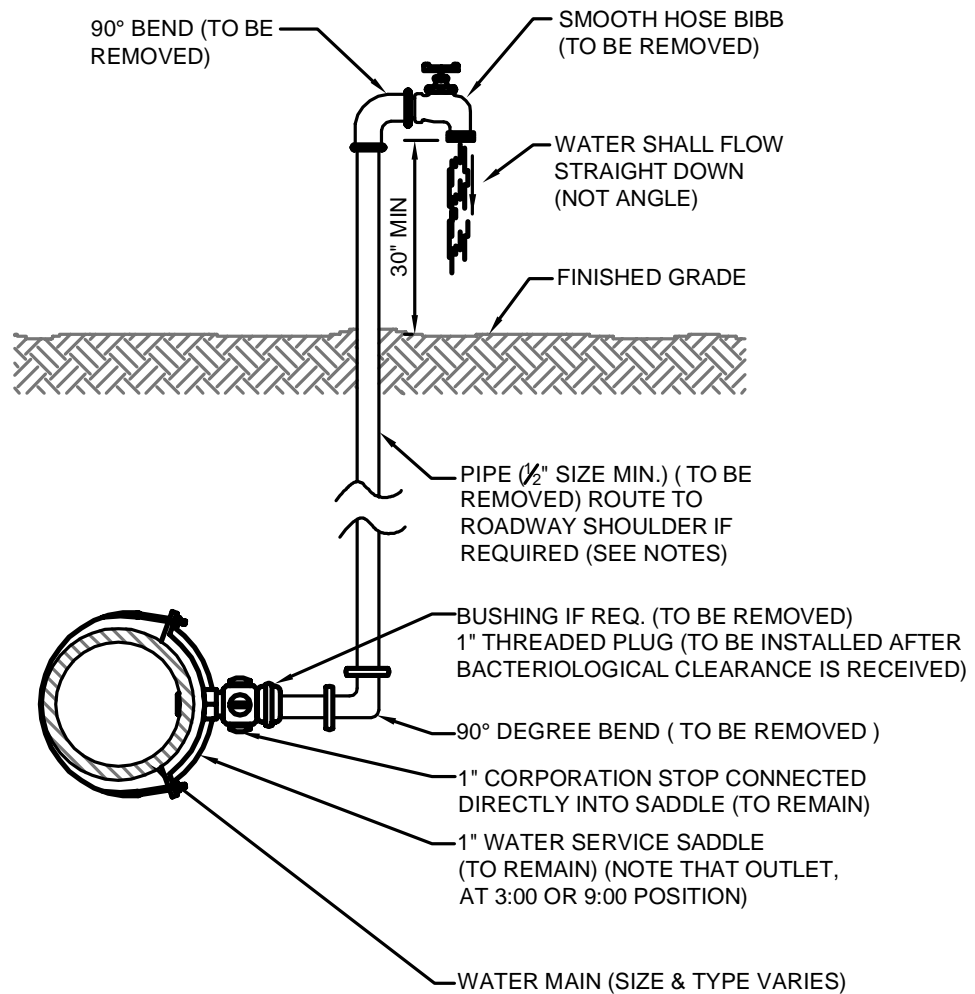
NOTES:

1. SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
2. SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1" AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" INCH OR SMALLER PVC WATER MAIN.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY JEA. CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS. THE POLY WATER SERVICE LINE SHALL BE SAME SIZE AS THE METER (1" MINIMUM) AND BE INSTALLED PERPENDICULAR TO THE MAIN AND NOT EXCEED 100LF UNLESS APPROVED OTHERWISE BY JEA.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS 'NOT IN USE' (I.E.: IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE (PAINTED PURPLE FOR RECLAIMED WATER). IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS 'NOT IN USE', A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE OR PURPLE FOR RECLAIMED WATER). THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (I.E. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).
8. LOCATE WIRING REQUIRED ON ALL SERVICES 10' OR GREATER IN LENGTH. SEE PLATE W-44.

WATER SERVICE DETAIL- 2" AND SMALLER METER

JANUARY 2020

PLATE W-2



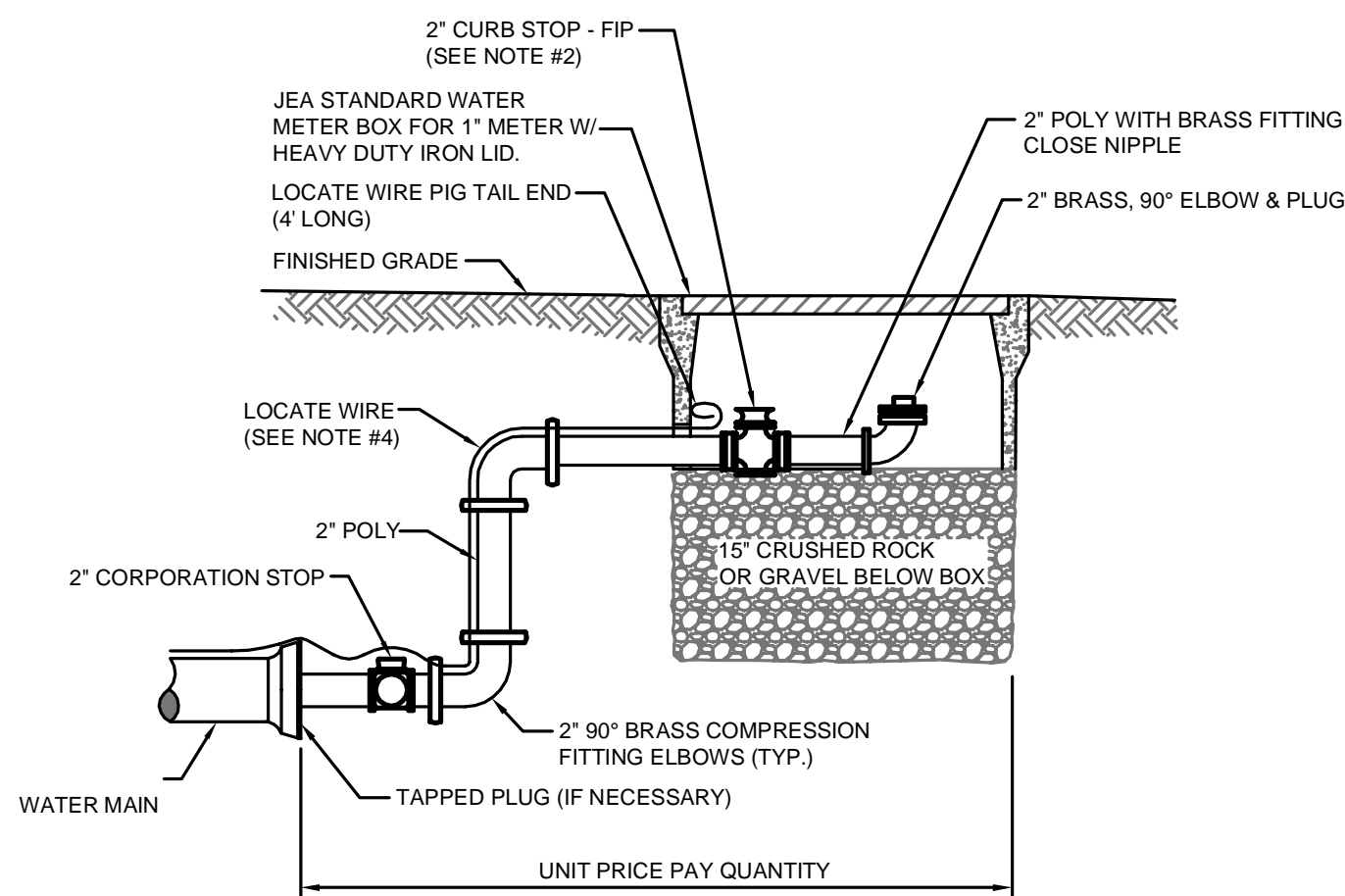
NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY PIPING & FITTINGS (AS NOTED), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH. 40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-24) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY JEA.
5. THE CONTRACTOR SHALL COMPLY WITH ALL JEA RULES AND POLICES AS OUTLINED BY JEA'S ENVIRONMENTAL RESPONSE COORDINATOR (ERC) AND OTHER ASSOCIATED JEA STANDARDS.

TEMPORARY SAMPLE TAP

JANUARY 2020

PLATE W-25



NOTES:

1. PIPE SHALL BE POLYETHYLENE. FITTINGS SHALL BE BRASS.
2. THE 2" CURB STOP SHALL BE ALL BRONZE. FITTINGS SHALL BE BRASS.
3. ANY RECLAIMED WATER VALVE SHALL HAVE RECLAIMED EMBLEM.
4. LOCATE WIRE FOR 10' OR GREATER IN LENGTH.
5. CANNOT BE PLACED UNDER CONCRETE OR PAVEMENT.
6. PLACE 2 FEET PAST LAST WATER MAIN SERVICE CONNECTION.

FLUSHING VALVE BELOW GRADE

JANUARY 2020

PLATE W-28

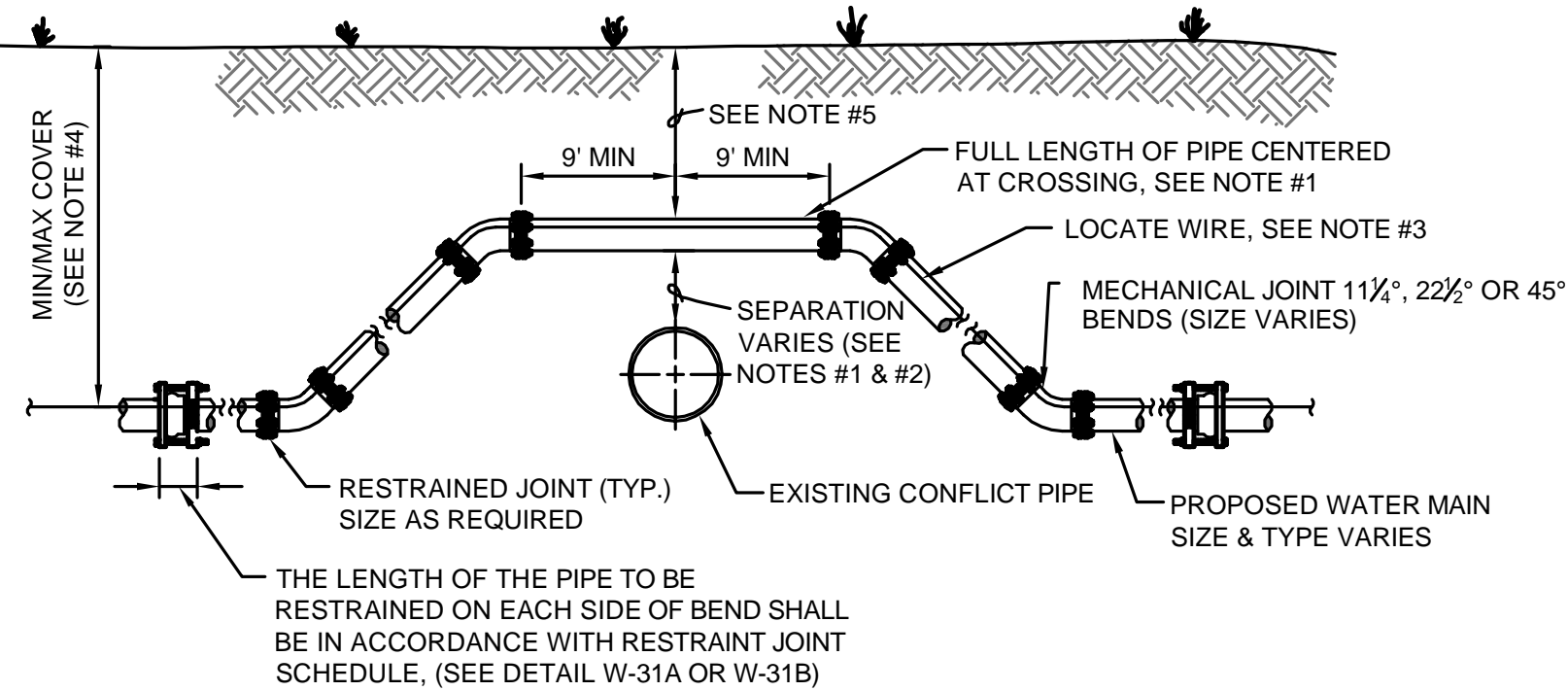
England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 442-8980
FAX: (904) 442-8985
CA 0002894 LC 0000316

THESE DETAILS AS SHOWN ON THIS DRAWING ARE BY THE JEA. WE TAKE NO EXCEPTION TO THE DESIGN

NO.	BY	DATE	REVISIONS
1.			
2.			
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4.			
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DESIGN ENGINEER	LYNDSEY KELLER		
FLORIDA REGISTRATION NO.	77763		
DESIGNER			
DRAWN BY			
DATE			
CHECKED BY			
DATE			
PROJ. NO.	17-252-01-001		
DATE	JANUARY 2020		
SHEET NO.	5		
DRAWING NO.	11C		
SCALE	AS NOTED		



JEA STANDARD
WATER AND RECLAIM DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE



CASE "A" CROSSING

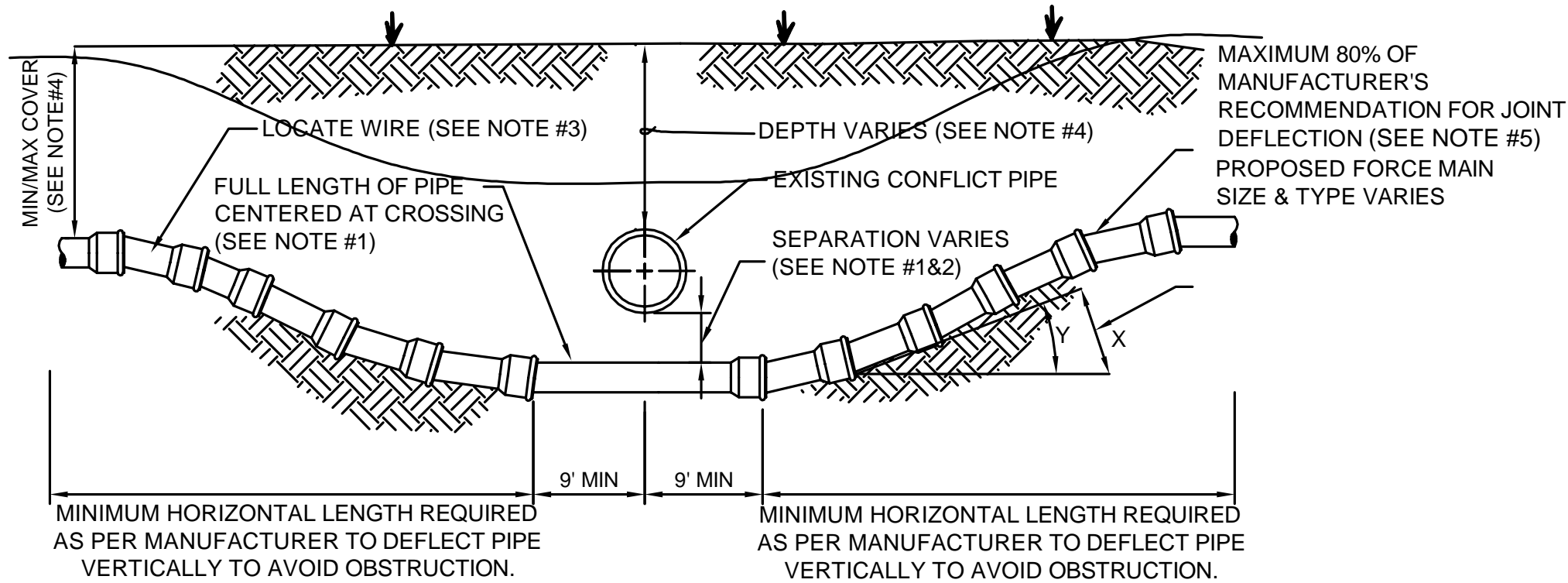
NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAIL (W-10 AND W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREAS, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.
5. IF UTILITY CONFLICT IS LOCATED IN A NON-TRAFFIC AREA (NO TRAFFIC LOADS) AND THE NEW PIPE IS D.I.P., THEN THE MINIMUM COVER MAY BE REDUCED TO 24 INCHES (ONLY IN THE AREA OF THE CONFLICT).

ADJUSTMENT OVER EXISTING UTILITIES
MECHANICAL RESTRAINTS

JANUARY 2020

PLATE W-32



CASE "B" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (W-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED, UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

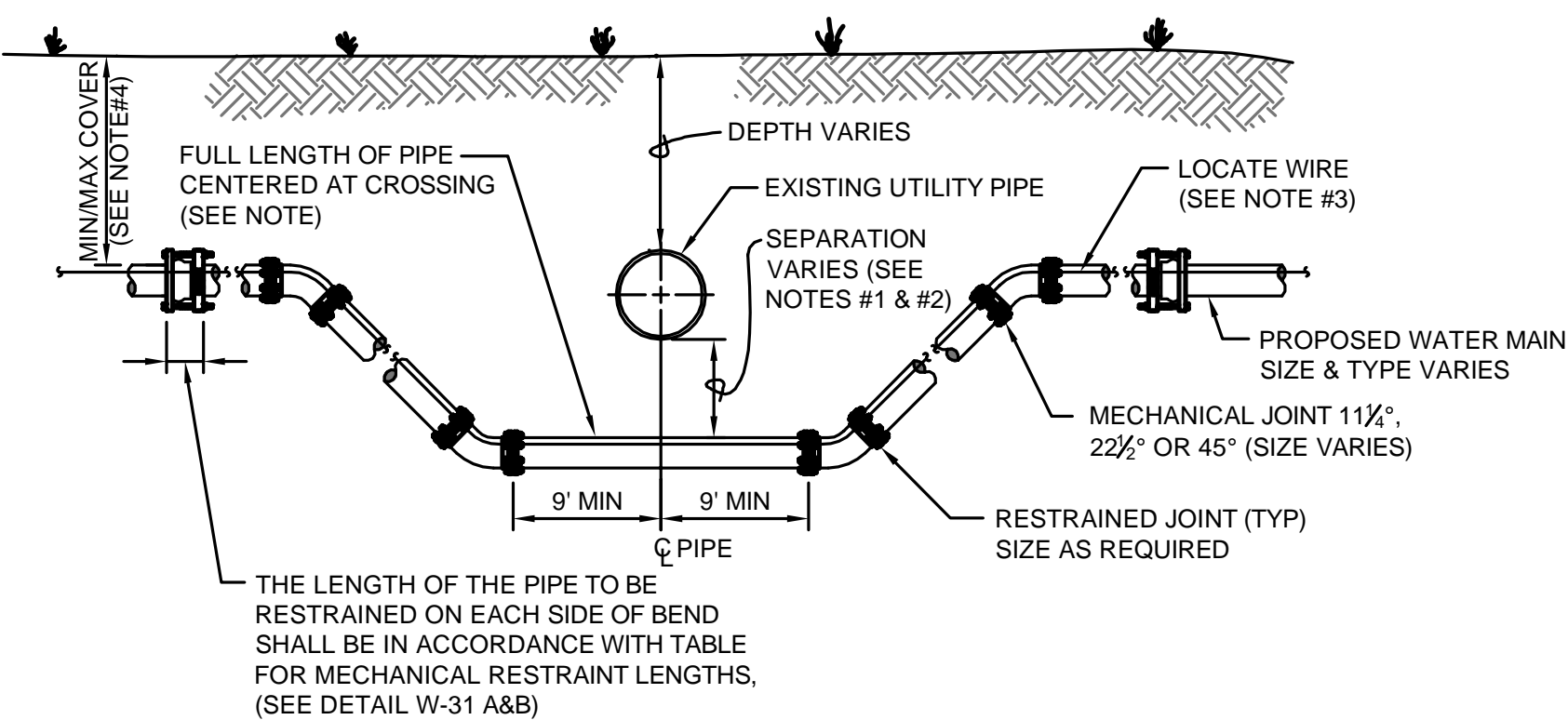
PVC PIPE	(X)	(Y)	RESULTING RADIUS
PIPE SIZE (IN.)	MAX. OFFSET (IN.)	ANGLE AT ONE BELL	OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)	(X)	(Y)	RESULTING RADIUS
PIPE SIZE (IN.)	MAX. OFFSET (IN.)	ANGLE AT ONE BELL	OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

ADJUSTMENT UNDER EXISTING UTILITIES
PIPE JOINT DEFLECTION

JANUARY 2020

PLATE W-40



CASE "B" CROSSING

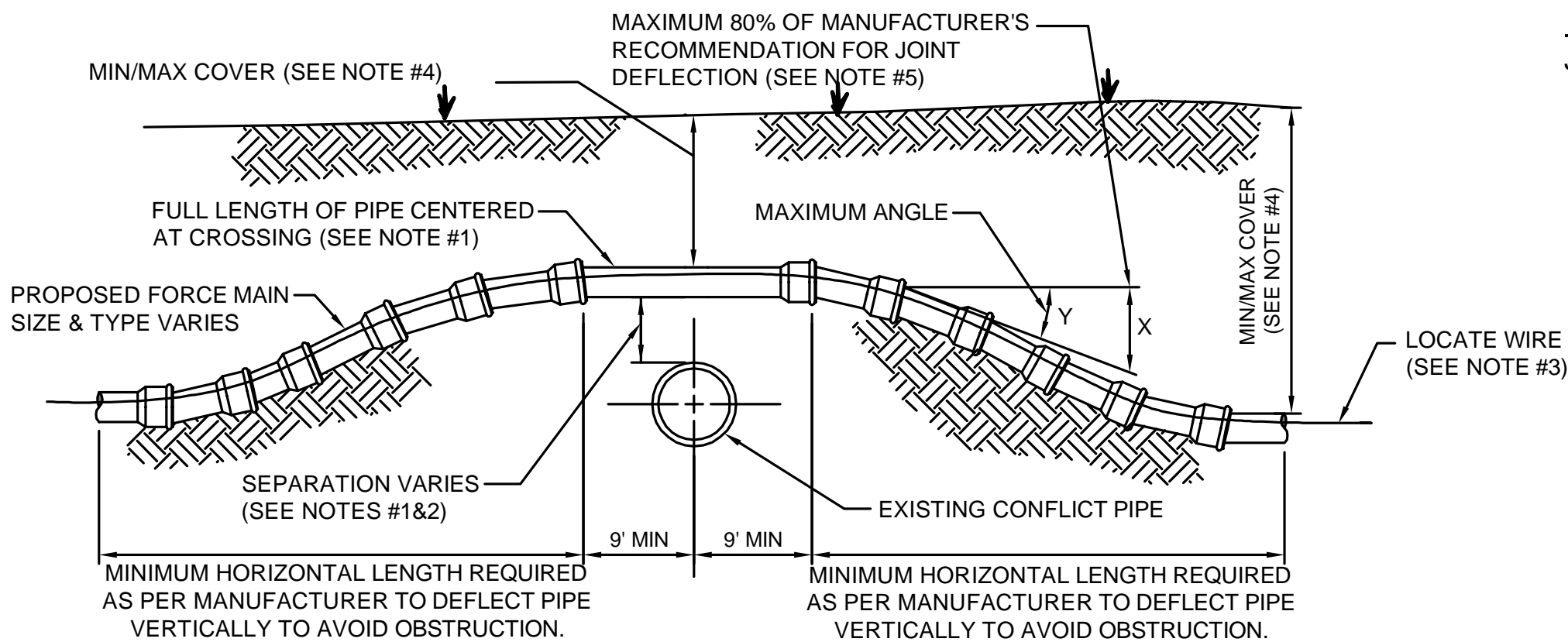
NOTES:

1. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.
2. FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER FOR PIPING LESS THAN 24" SIZE SHALL BE 30" (MIN) IN UNPAVED AREA, 36" (MIN) IN PAVED AREAS AND A MAXIMUM COVER OF 60", UNLESS APPROVED BY JEA. THE COVER FOR PIPING 24" SIZE AND LARGER SHALL BE 36" (MIN) IN PAVED AND UNPAVED AREAS AND A MAXIMUM COVER OF 84", UNLESS APPROVED BY JEA.

ADJUSTMENT UNDER EXISTING UTILITIES
MECHANICAL RESTRAINTS

JANUARY 2020

PLATE W-34



CASE "A" CROSSING

NOTES:

1. IF EXISTING CONFLICT PIPE IS A WATER MAIN, 12-INCHES OF SEPARATION IS REQUIRED. A FULL LENGTH OF PIPE SHALL BE CENTERED OVER EXISTING UTILITY MAIN TO PROVIDE MAXIMUM JOINT SPACING FOR ALL CROSSING.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-10 & W-11).
3. LOCATING WIRE REQUIRED: SEE DETAIL W-44.
4. THE COVER OVER ALL PIPING LESS THAN 24" SIZE SHALL BE A MINIMUM OF 30" IN UNPAVED AREAS AND 36" IN PAVED AREAS WITH A MAXIMUM COVER OF 60" UNLESS APPROVED OTHERWISE BY JEA. COVER FOR PIPING 24" SIZE AND LARGER SHALL BE MINIMUM OF 36" (PAVED AND UNPAVED) AND MAXIMUM OF 84" UNLESS APPROVED OTHERWISE BY JEA. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST ASTM D 1557.
5. JEA ONLY ALLOWS 80% OF THE PIPE MANUFACTURER'S RECOMMENDATION FOR JOINT DEFLECTION. BENDING THE PIPE BARREL IS NOT ALLOWED, UNLESS OTHERWISE APPROVED BY JEA, THE MAXIMUM ARE LISTED IN TABLE BELOW. ONLY MANUAL FORCE CAN BE UTILIZED TO OBTAIN THESE JOINT DEFLECTION. ALL OFFSETS ARE BASED ON MINIMUM 20LF PIPE LENGTH.

MAXIMUM ALLOWED OFFSET FOR PIPE BY JOINT DEFLECTION

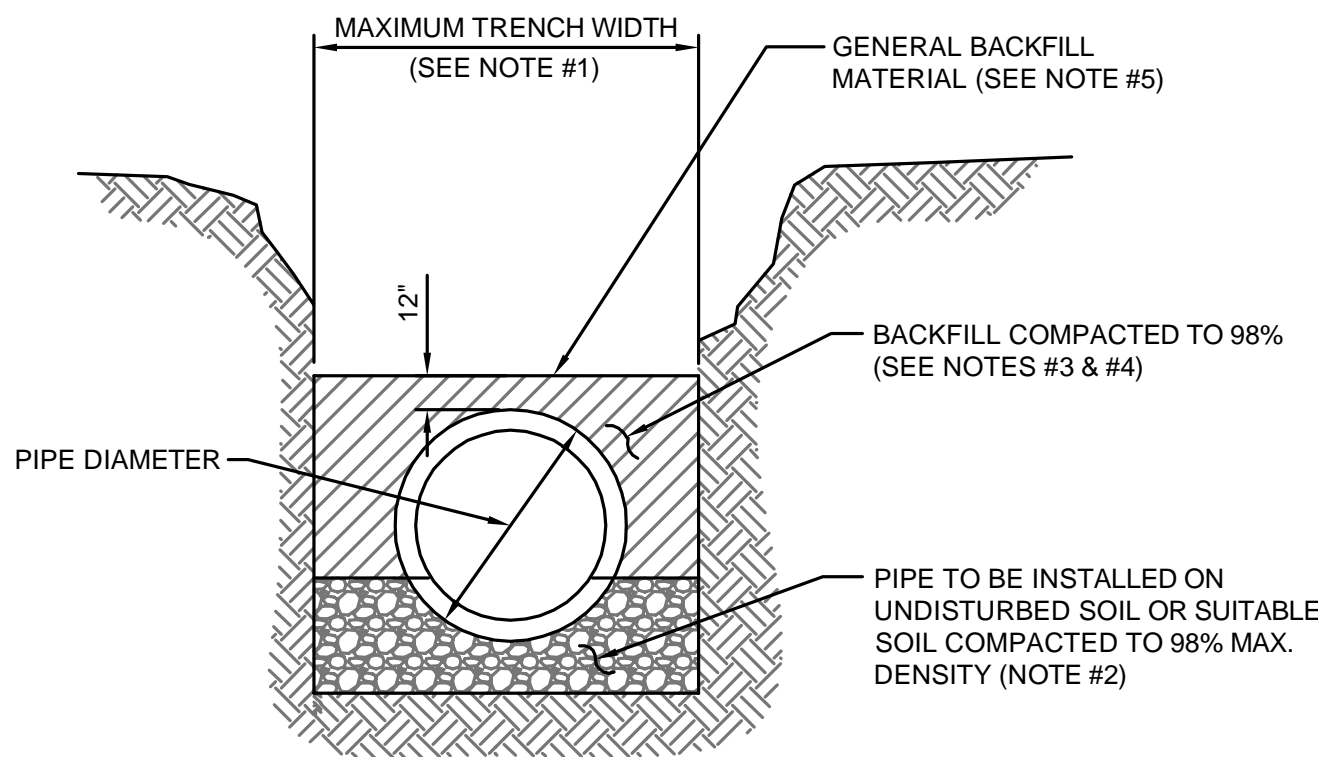
PVC PIPE	(X)	(Y)	RESULTING RADIUS
PIPE SIZE (IN.)	MAX. OFFSET (IN.)	ANGLE AT ONE BELL	OF CURVE WITH 20FT. LENGTHS
2	30	7°	158 FT
4	10	2.4°	480 FT
6	10	2.4°	480 FT
8	10	2.4°	480 FT
10	10	2.4°	480 FT
12	8.5	2°	564 FT
14 - 24	5	1.2°	960 FT
30 - 48	3.25	0.8°	1477 FT

DUCTILE IRON PIPE (Mechanical Joint)	(X)	(Y)	RESULTING RADIUS
PIPE SIZE (IN.)	MAX. OFFSET (IN.)	ANGLE AT ONE BELL	OF CURVE WITH 20FT. LENGTHS
-	-	-	-
4	27	6.5°	177 FT
6	24	5.7°	200 FT
8 - 12	17.5	4.2°	273 FT
14 - 16	12	2.9°	400 FT
18 - 20	10	2.4°	477 FT
24 - 30	8	1.9°	600 FT
36	7	1.7°	687 FT
42 - 48	6.7	1.6°	716 FT

ADJUSTMENT OVER EXISTING UTILITIES
PIPE JOINT DEFLECTION

JANUARY 2020

PLATE W-41



TYPICAL TRENCH

NOTES:

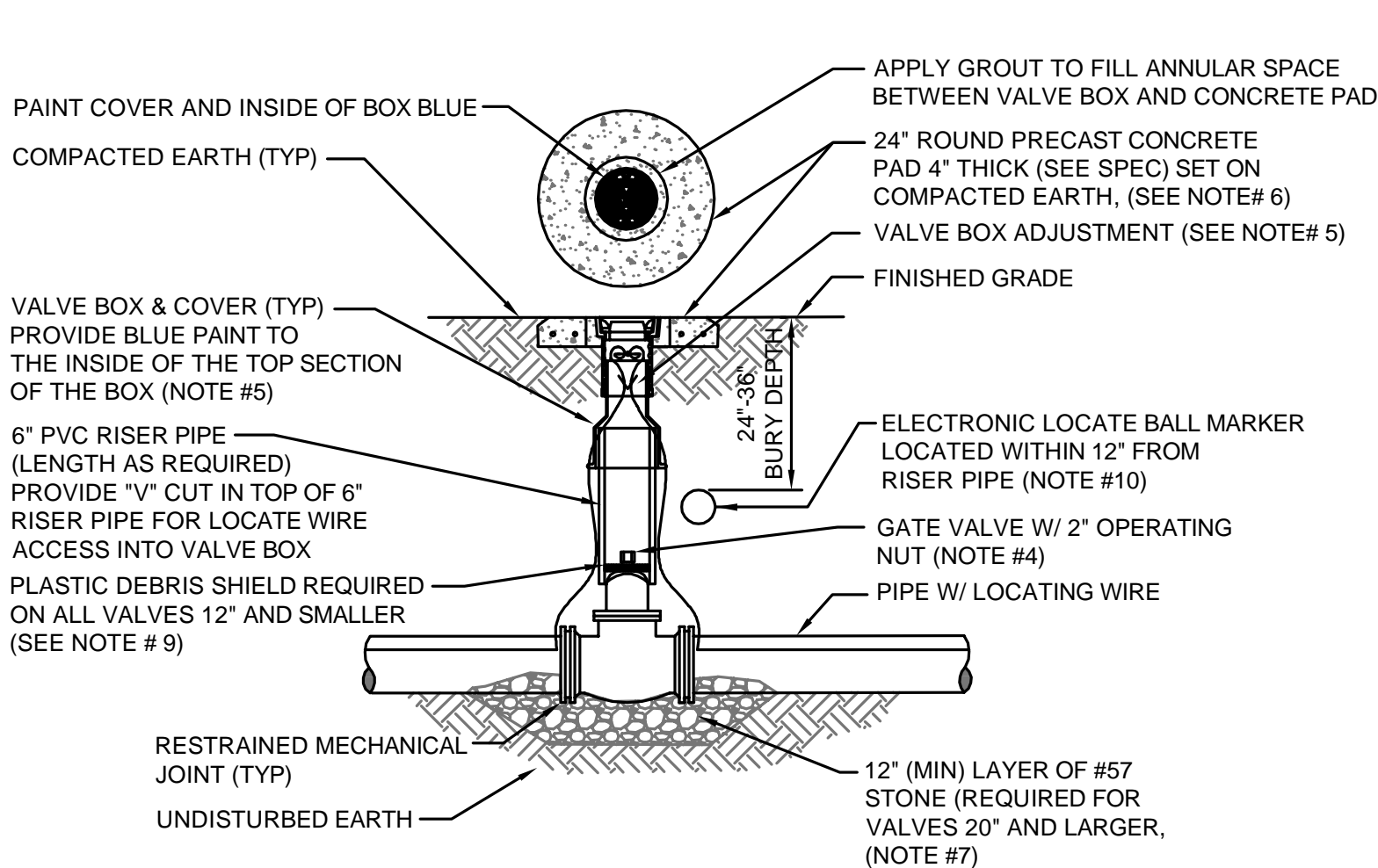
1. TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #41) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
2. BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
3. BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
4. BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
5. SEE "EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

JANUARY 2020

IN CITY RIGHT OF WAY

PLATE W-42



NOTES:

1. FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
2. LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAILW-44).
3. A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/ADJACENT/(ASPHALT IF NO CURB) TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED BLUE WATER/PURPLE RECLAIMED.
4. IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
5. FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
6. BRASS IDENTIFICATION TAG INDICATING "WATER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A 1/2" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
7. IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
8. GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO 1/2 THE OVERALL HEIGHT OF THE VALVE.
9. FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
10. ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1403XR FOR WATER AND 1408XR FOR RECLAIMED WATER).

WATER VALVE INSTALLATION DETAIL

JANUARY 2020

PLATE W-18

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 644-9890
FAX: (904) 644-9895
CA 0002694 LC 0000316

ETM
VISION • EXPERIENCE • RESULTS

THESE DETAILS AS SHOWN ON THIS
DRAWING ARE BY THE JEA. WE TAKE
NO EXCEPTION TO THE DESIGN

NO.	BY	DATE	REVISIONS
1			
2			
3			
4			
5			
6			

DESIGNER:	LYNDAY KELLER
DRAWN BY:	
CHECKED BY:	
DATE:	

FLORIDA REGISTRATION NO.:	77763
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JEA
Building Community™

JEA STANDARD
WATER AND RECLAIM DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

PROJ. NO.:	17-252-01-001
DATE:	JANUARY 2020
SHEET NO.:	5
DRAWING NO.:	11D
SCALE:	AS NOTED

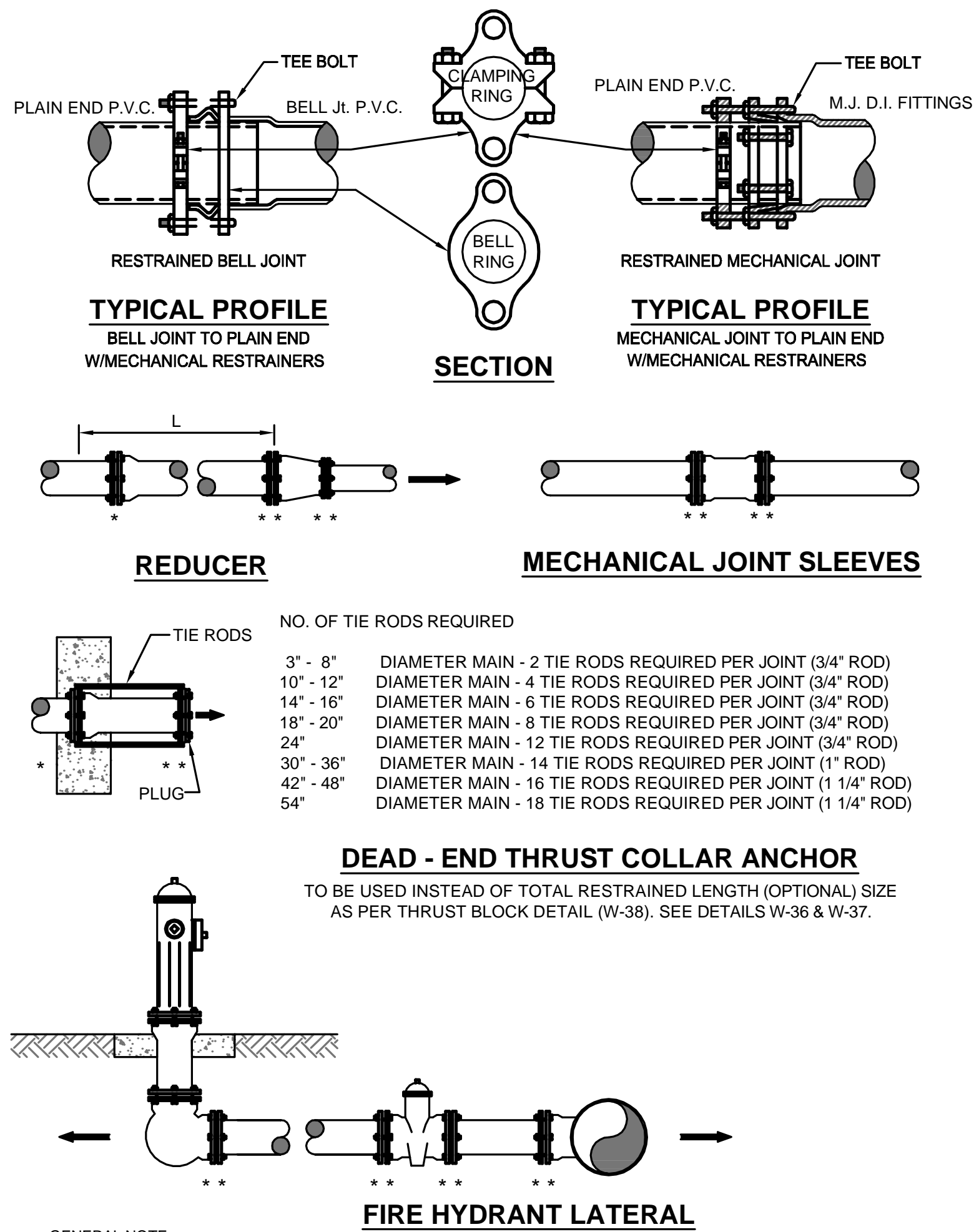
PVC PIPE RESTRAINT NOTES:

- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, L_u IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. L_i IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
- HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
- THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2020

PLATE W-31A



GENERAL NOTE:

- PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
- PAY ITEM *** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
- INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2020

PLATE W-31C

LENGTH (L) TO BE RESTRAINED

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	
	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	
4	21	9	5	3	17	3	47
6	30	13	6	3	23	4	66
8	38	16	8	4	30	6	86
10	45	19	9	5	36	7	103
12	53	22	11	6	43	8	121
14	61	26	13	6	50	9	140
16	66	28	14	7	55	10	154
18	73	30	15	8	60	11	170
20	79	33	16	8	66	12	186
24	79	33	16	8	77	15	185
30	93	39	19	10	97	17	222
36	106	39	21	11	107	20	257
42	117	49	24	12	120	24	289
48	144	53	26	13	133	26	321

(SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)

REDUCERS		TEES SEE NOTE 5	
SIZE (IN.)	L (FT.)	RUN SIZE (IN.)	BRANCH SIZE (IN.)
8x4	34	4	4
8x6	36	4	6
8x8	62	4	4 < LESS
10x8	35	8	8
10x6	63	8	6 < LESS
12x10	36	10	10
12x8	64	10	8 < LESS
16x12	66	12	12
16x10	92	12	10 < LESS
20x18	35	16	16
20x16	66	16	12 < LESS
20x12	117	16	10 < LESS
24x20	56	20	20
24x18	80	20	16 < LESS
24x16	101	20	12 < LESS
30x24	78	24	24
30x20	121	24	20 < LESS
36x30	78	30	30
36x24	141	30	24 < LESS
42x36	75	36	36
42x30	140	36	30 < LESS
48x42	75	42	42
48x36	139	42	36 < LESS

F.O. = FITTING ONLY

DUCTILE IRON PIPE RESTRAINT NOTES:

- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20" AND SMALLER PIPE SIZE OR 36 INCHES FOR 24" AND LARGER PIPE SIZE. FOR D.I.P. W/POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR PVC PIPE.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, L_u IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. L_i IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE.
- HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2020

PLATE W -31B

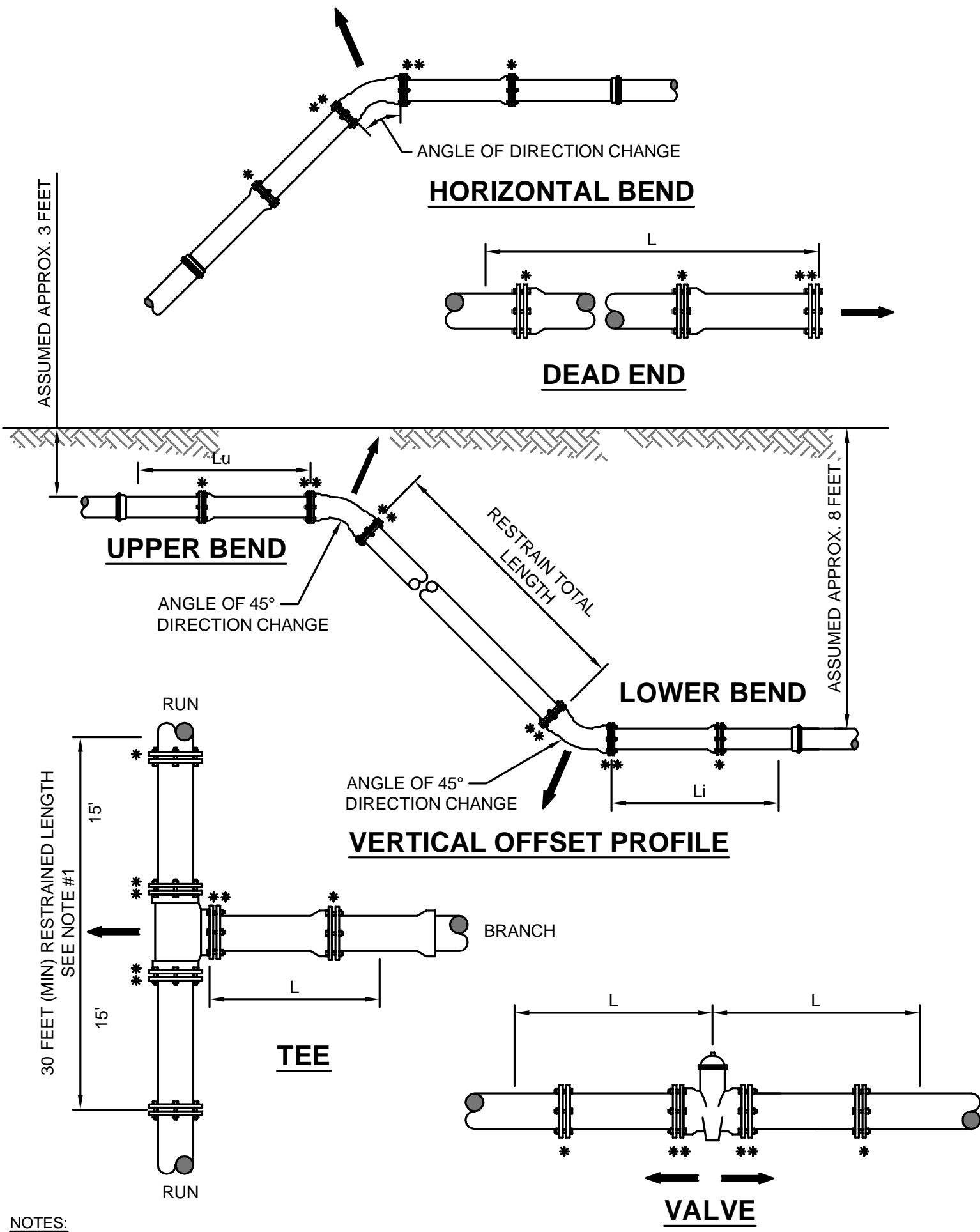
LENGTH (L) TO BE RESTRAINED

NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)	
	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	11.25° BENDS L (FT.)	
4	17	7	4	2	11	3	30
6	24	15	5	3	15	4	42
8	31	13	6	3	20	5	55
10	36	15	8	4	23	6	65
12	42	18	9	5	27	7	77
14	48	20	10	5	31	7	87
16	53	22	11	6	35	8	97
18	58	24	12	6	39	9	107
20	63	27	13	6	42	10	118
24	63	27	13	7	49	12	118
30	75	31	15	8	59	14	141
36	86	36	17	9	68	17	163
42	95	40	19	10	76	19	183
48	117	43	21	11	84	21	203

LENGTH (L) TO BE RESTRAINED

REDUCERS		TEES SEE NOTE 5	
SIZE (IN.)	L (FT.)	RUN SIZE (IN.)	BRANCH SIZE (IN.)
6x4	22	4	4
6x6	23	4	6
8x4	39	4	4 < LESS
10x8	22	8	8
10x6	40	8	6 < LESS
12x10	23	10	10
12x8	41	10	8 < LESS
16x12	42	12	12
16x10	58	12	10 < LESS
20x18	22	16	16
20x16	42	16	12 < LESS
20x12	74	16	10 < LESS
24x20	36	20	20
24x18	51	20	16 < LESS
24x16	64	20	12 < LESS
30x24	50	24	24
30x20	77	24	20 < LESS
36x30	50	30	30
36x24	89	30	24 < LESS
42x36	48	36	36
42x30	89	36	30 < LESS
48x42	48	42	42
48x36	88	42	36 < LESS

F.O. = FITTING ONLY



NOTES:

- TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).
- PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
- PAY ITEM **** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2020

PLATE W-31D

England, Thieme & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 442-9890
FAX: (904) 442-9895
CA 000284 LC 0000316

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DRAWING ARE BY THE J.E.A. WE TAKE
NO EXCEPTION TO THE DESIGN

DESIGN ENGINEER
LYNDSEY KELLER
FLORIDA REGISTRATION NO.
77763

DESIGNER:
DRAWN BY:
DATE:
CHECKED BY:
DATE:

PROJ. NO.: 17-252-01-001
DATE: JANUARY 2020
SCALE: AS NOTED

NO. SHEETS
1

SHEET NO.
5

DRAWING NO.
11E

JEA STANDARD
WATER AND RECLAIM DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

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TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE

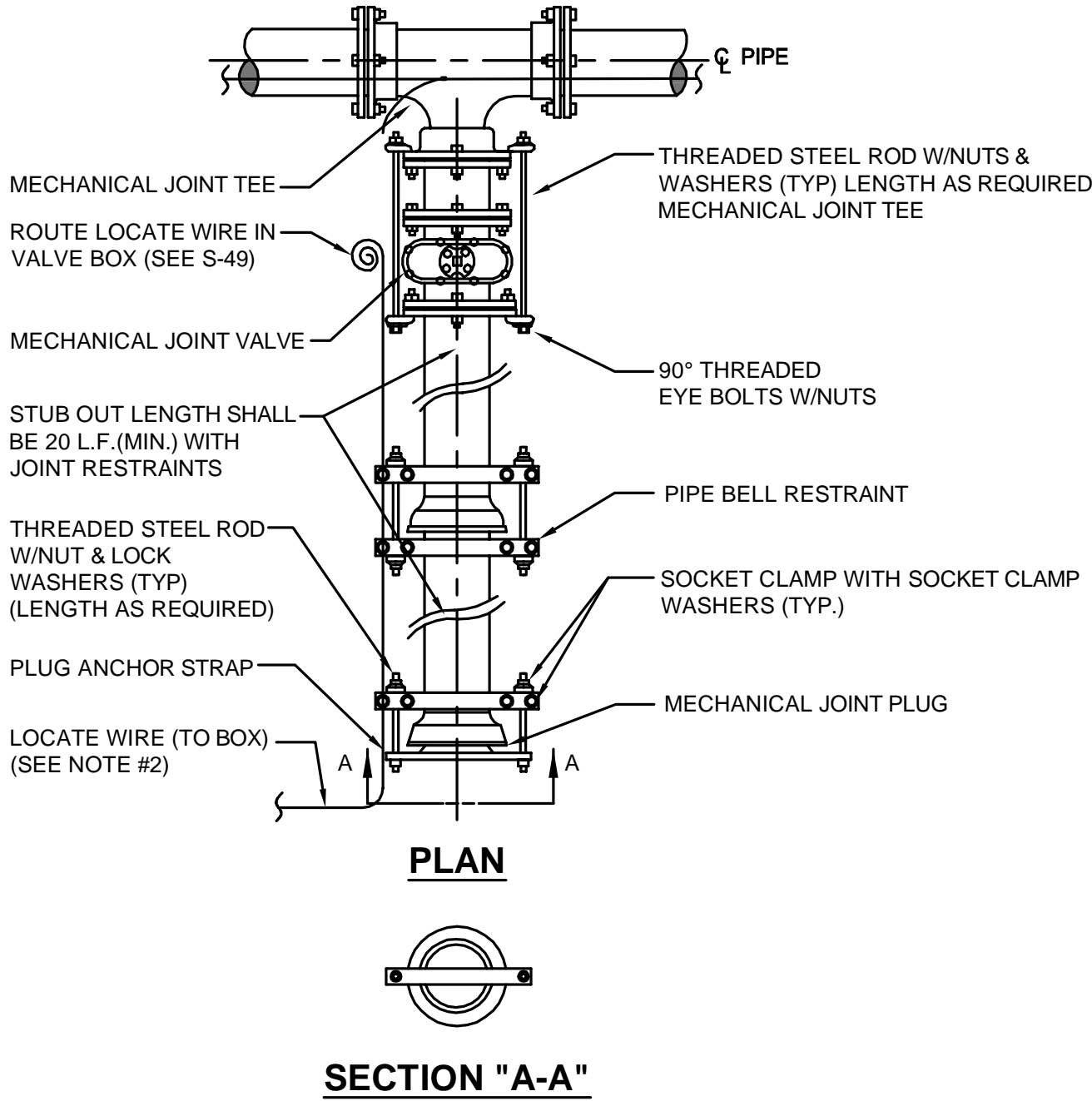
NOTES:

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

TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

NOTES:

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



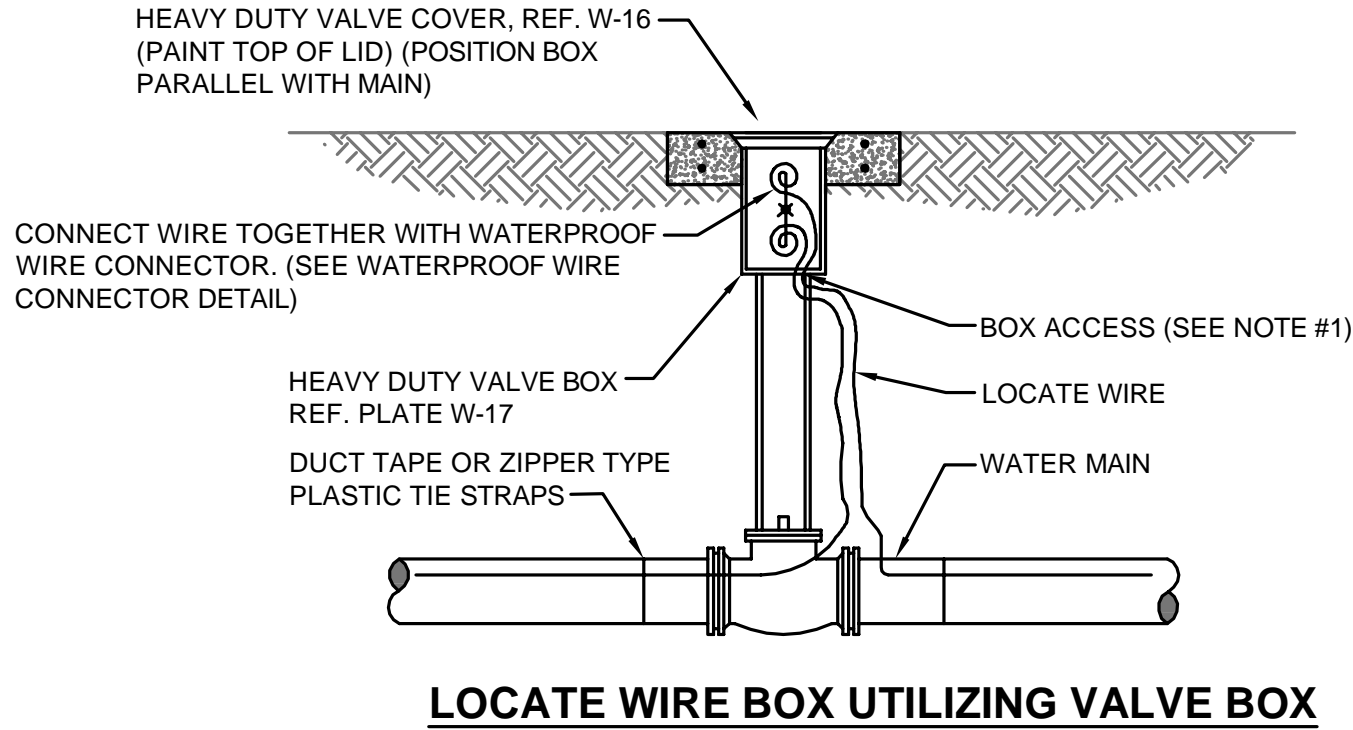
NOTES:

- 1. IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
- 2. LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
- 3. NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:
 - 3" - 8" DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
 - 10" - 12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
 - 14" - 16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
 - 18" - 20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
 - 24" DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
 - 30" - 36" DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
 - 42" - 48" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
 - 54" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
- 4. THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

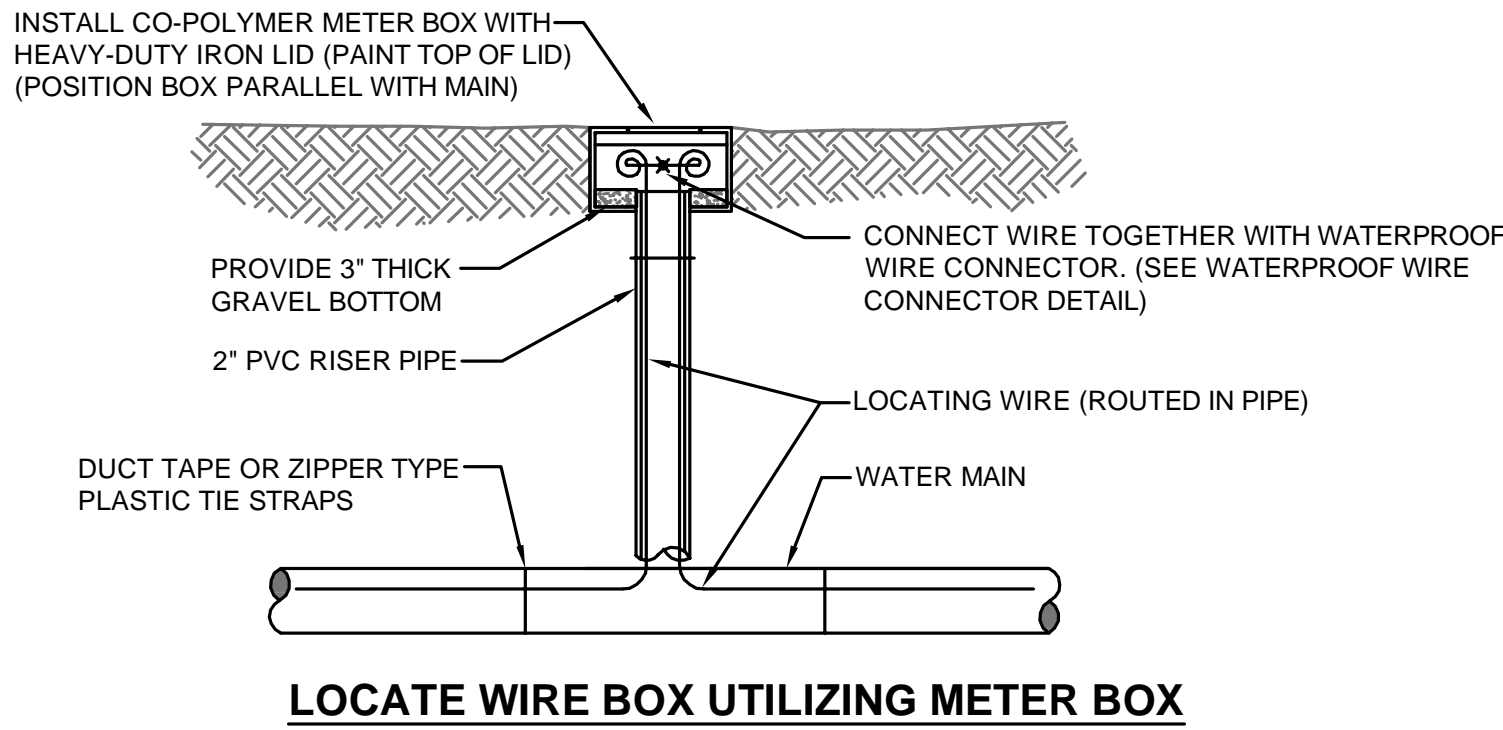
PLUGGED DEAD END USING MECHANICAL RESTRAINTS

JANUARY 2020

PLATE W-37



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

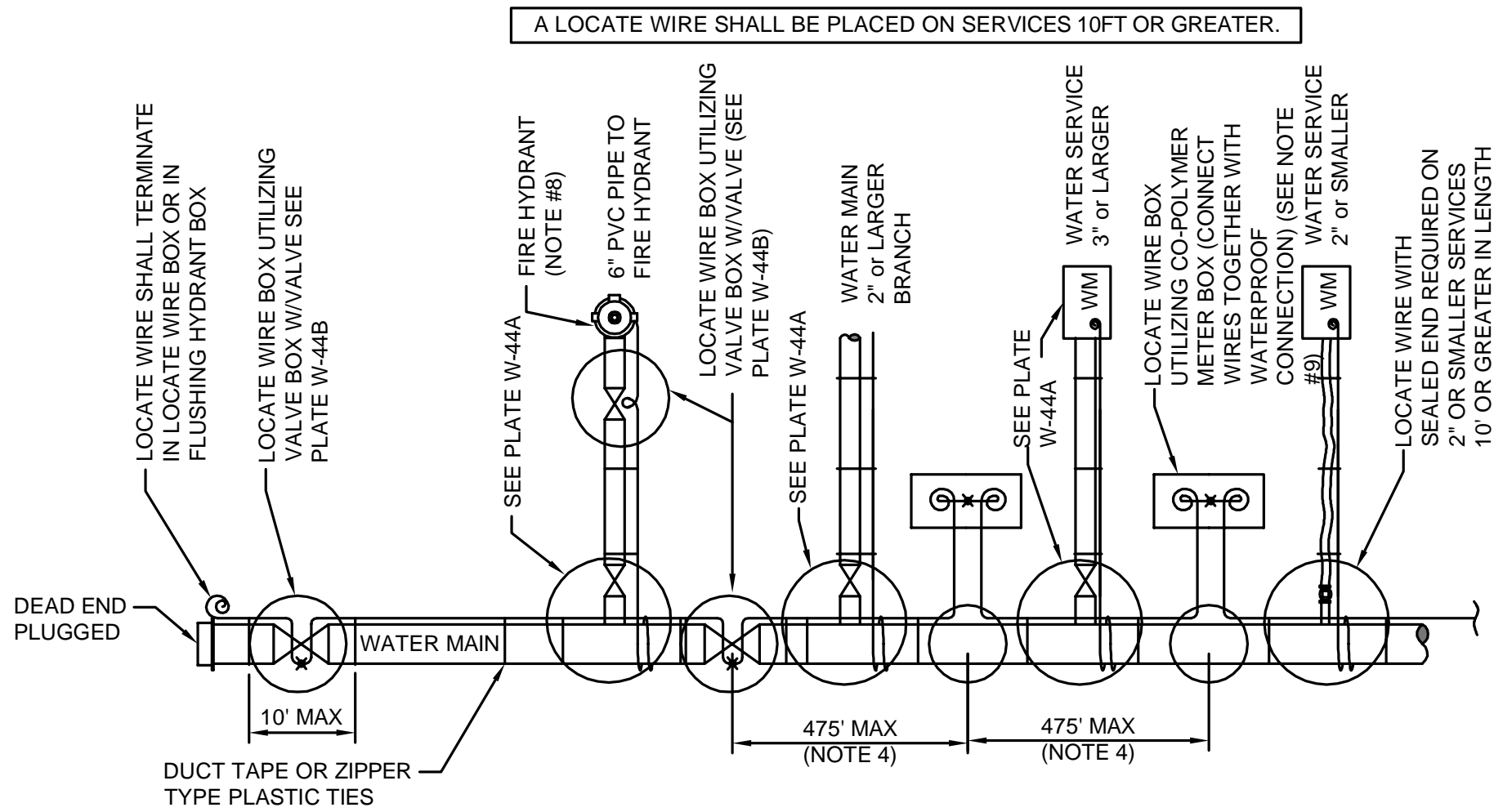
JANUARY 2020

PLATE W-44B

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD A

JANUARY 2020

PLATE W-24



LOCATE WIRE SYSTEM

NOTES:

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

LOCATE WIRE CONSTRUCTION FOR WATER MAINS

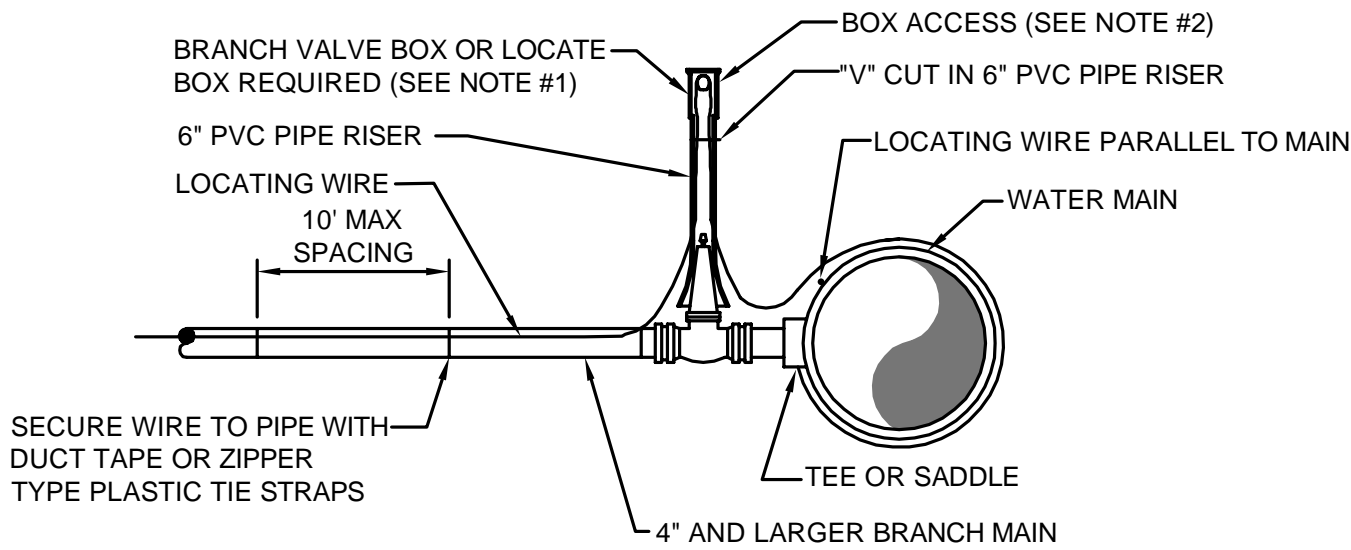
JANUARY 2020

PLATE W-44

TEMPORARY SAMPLE TAP ALTERNATIVE METHOD B

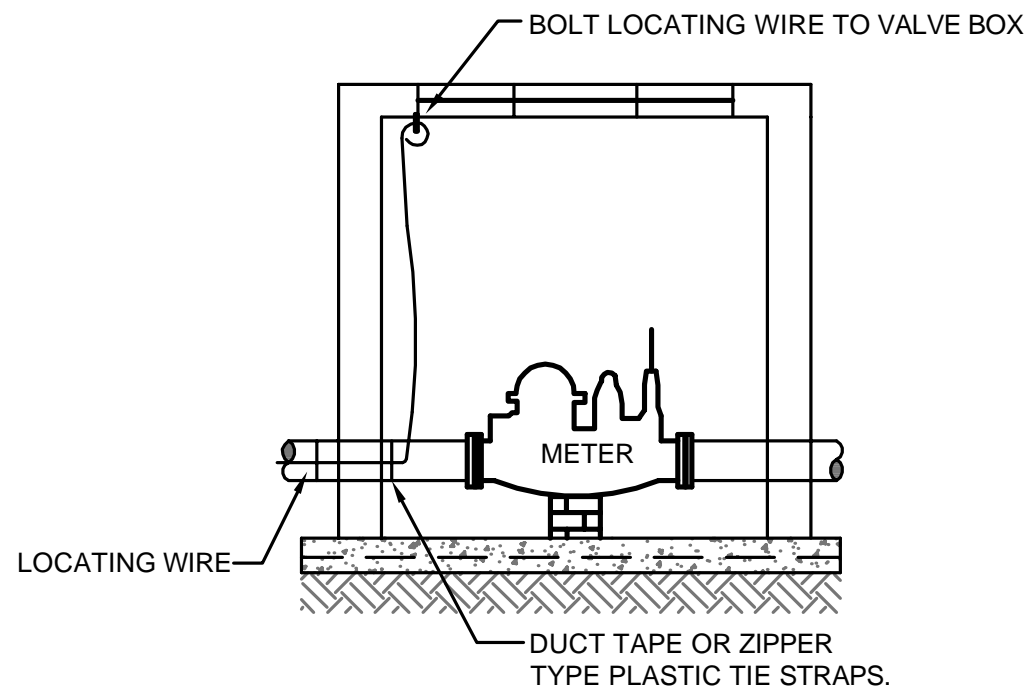
JANUARY 2020

PLATE W-24A



BRANCH FORCE MAIN

(2" AND LARGER WATER MAIN OR 3" AND LARGER WATER SERVICE PIPE)



CONNECTION AT LARGE METER BOX

NOTES:

- 1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
- 2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE W-18).
- 3. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2020

PLATE W-44A

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
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FAX: (904) 442-9891
CA 00028494 LC 0000316

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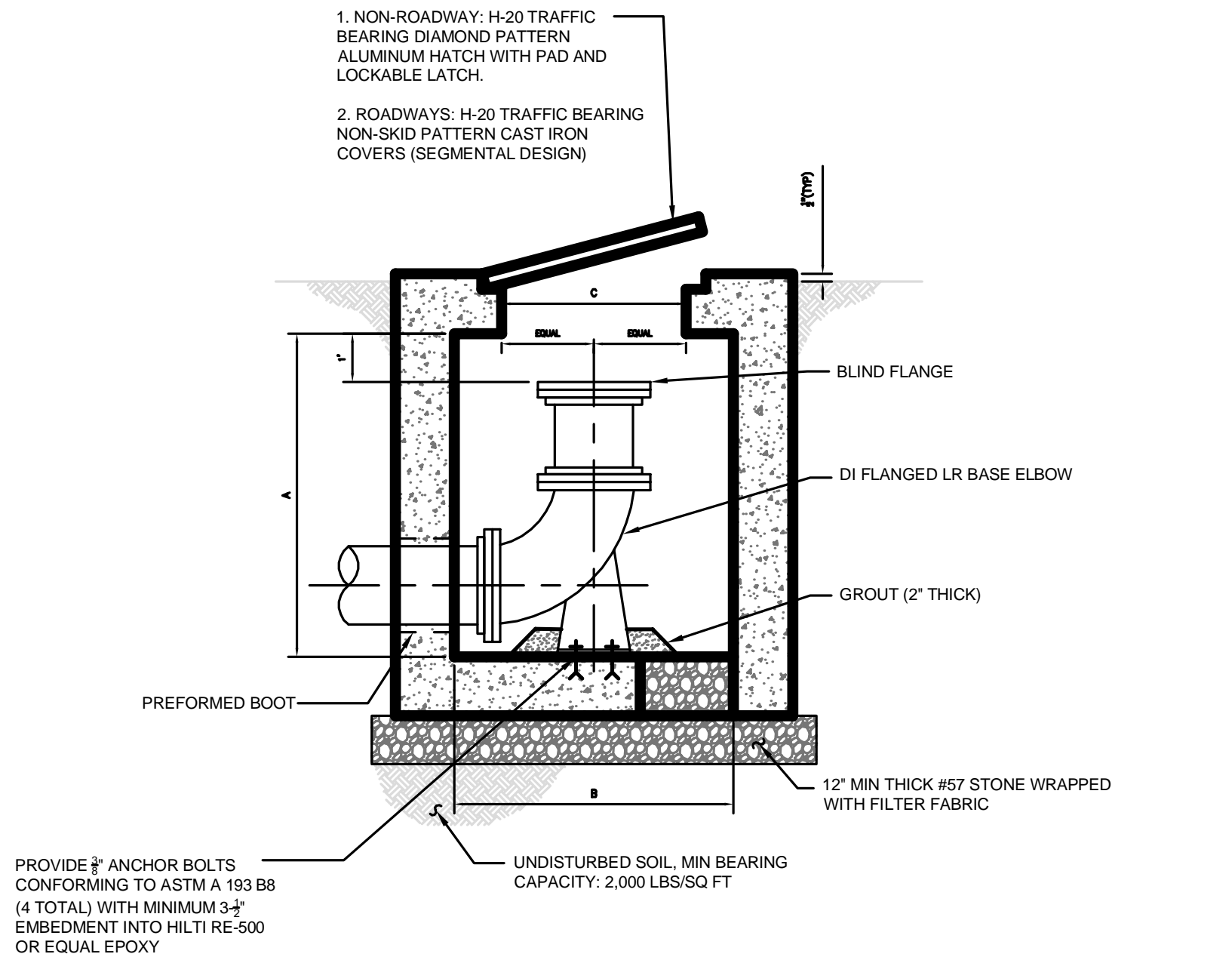
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LYNDAY KELLER
FLORIDA REGISTRATION NO.
77763

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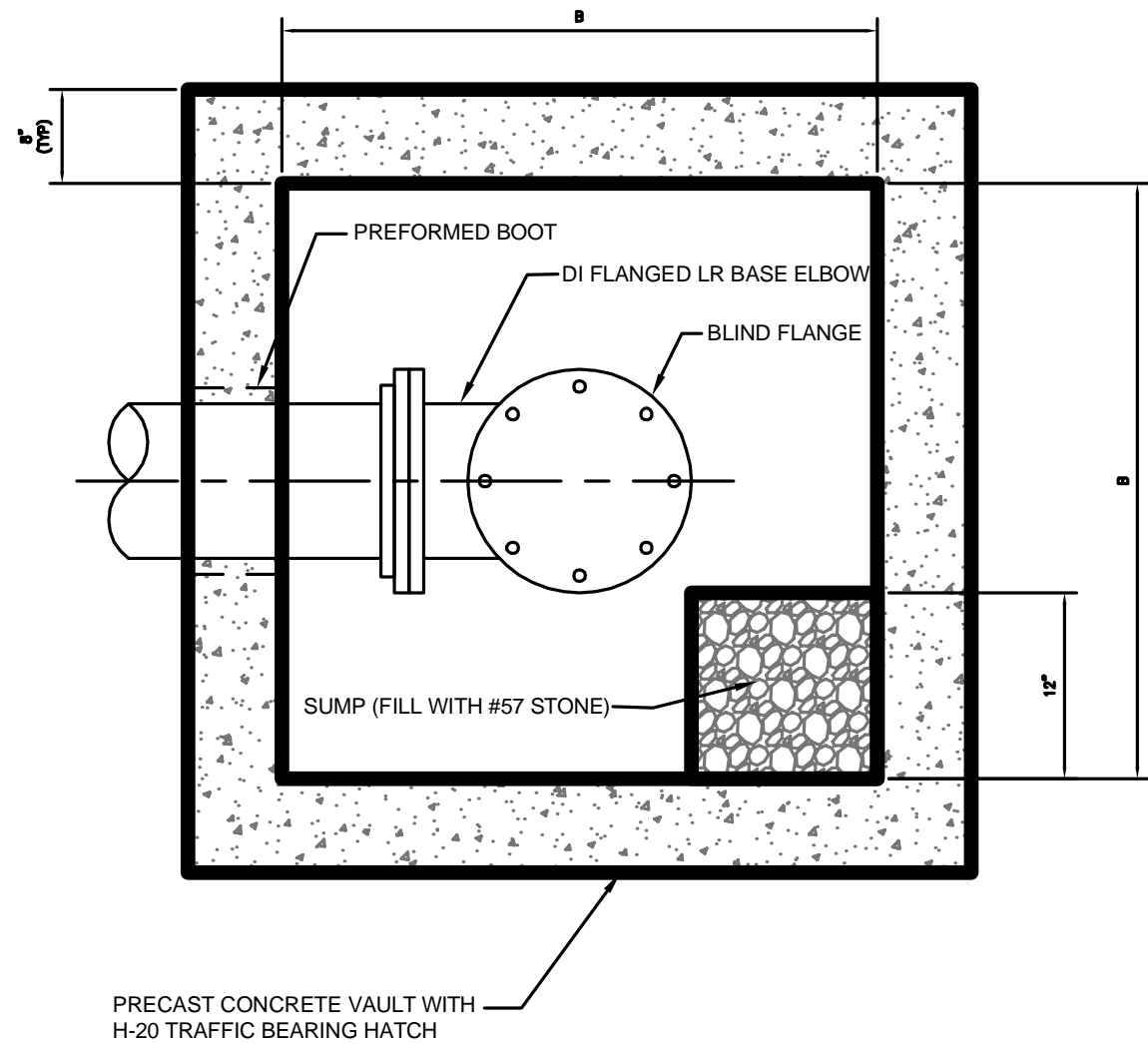
JEA STANDARD
WATER AND RECLAIM DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

PROJ. NO.	17-252-01-001
DATE:	JANUARY 2020
SHEET NO.	6
DRAWING NO.	11F
SCALE:	AS NOTED



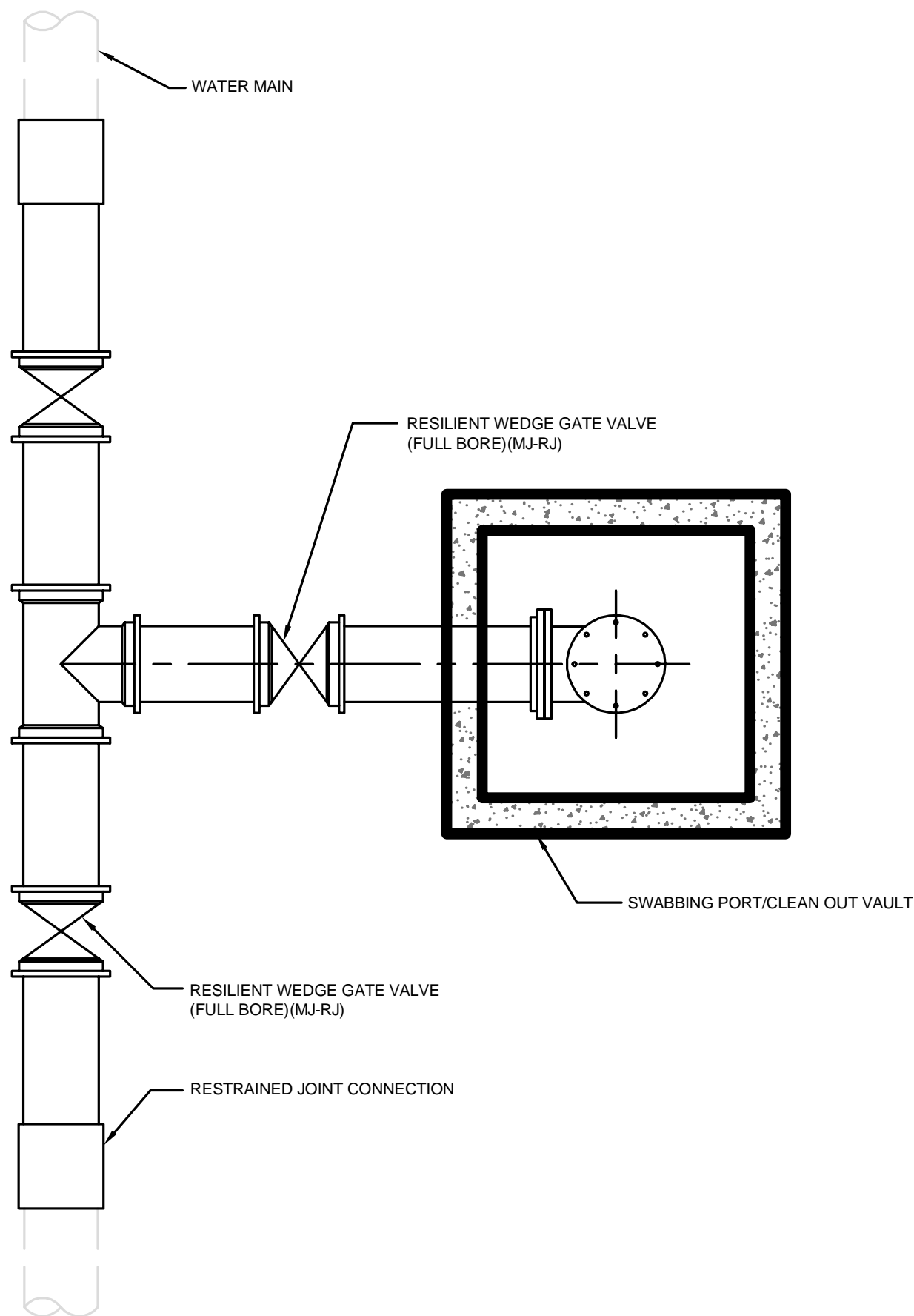
SWABBING PORT AND CLEAN OUT VAULT DETAIL - SECTION

JANUARY 2020 PLATE W-45



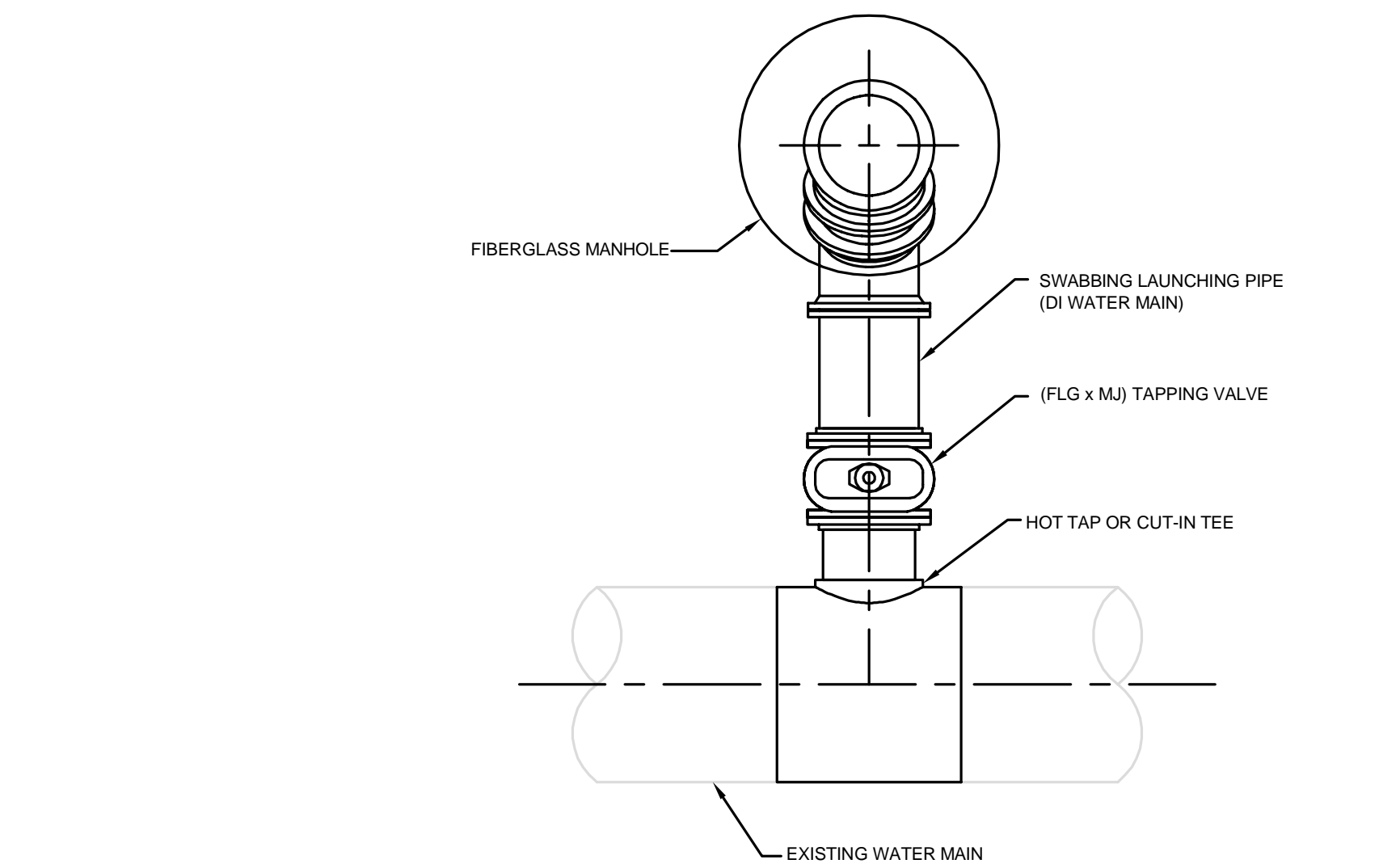
SWABBING PORT AND CLEAN OUT VAULT DETAIL - PLAN

JANUARY 2020 PLATE W-45A



SWABBING LAUNCHING STATION DETAIL FOR NEW WATER MAIN UP TO 24"

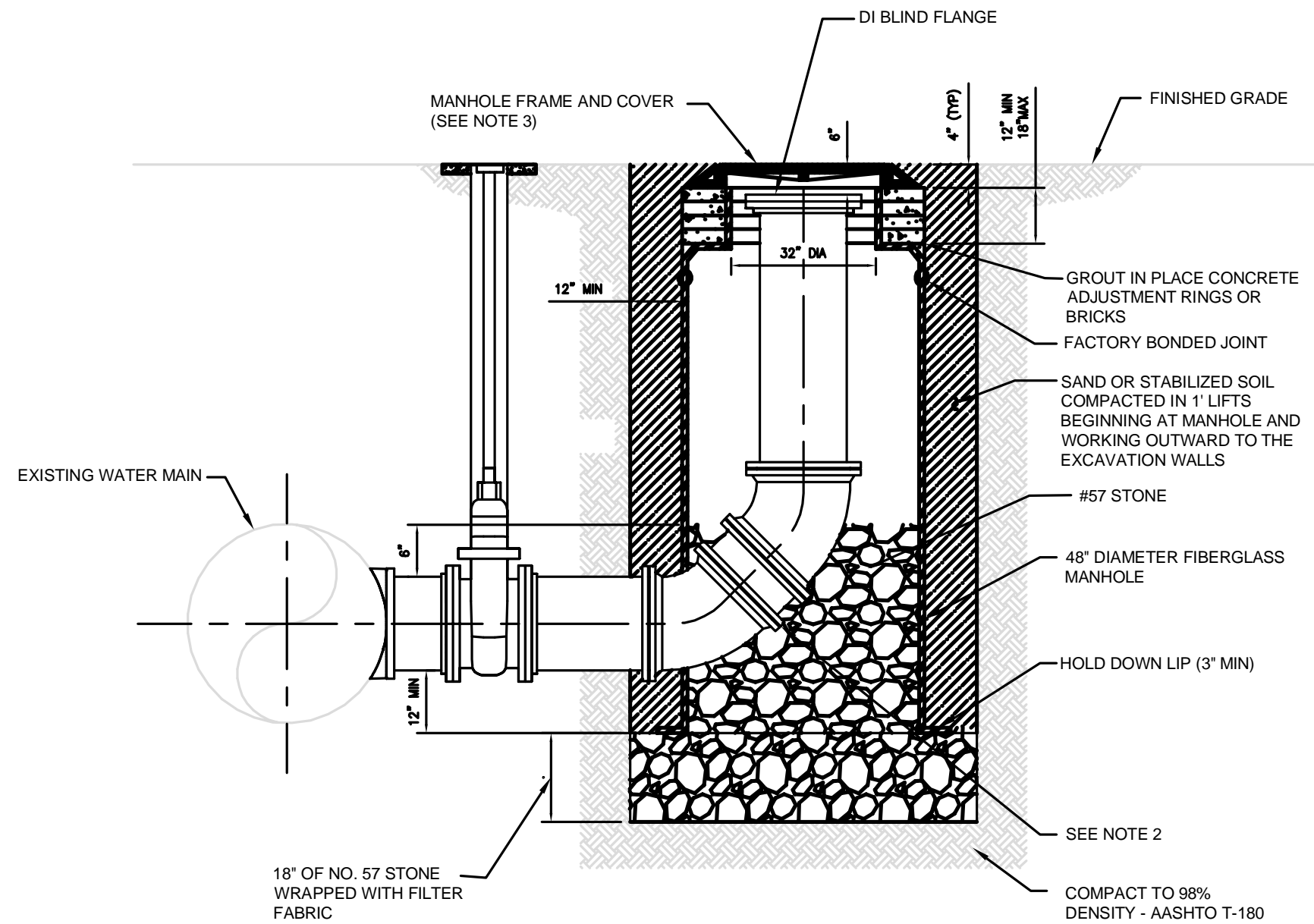
JANUARY 2020 PLATE W-45B



- NOTES:
- FOR HOT TAP CONNECTIONS ON EXISTING WATER MAINS 10" DIAMETER AND GREATER, DIAMETER OF TAPPING VALVE AND PIG LAUNCHING PIPE SHALL BE ONE NOMINAL SIZE LESS THAN EXISTING WATER MAIN.

SWABBING PIG LAUNCHING STATION DETAIL FOR WATER MAINS UP TO 24" - PLAN

JANUARY 2020 PLATE W-45C



- NOTES:
- PROVIDE ALL MATERIALS IN ACCORDANCE TO JEA WATER AND WASTEWATER STANDARD SPECIFICATIONS.
 - USE TWO VERTICAL 45 DEGREE MJ BENDS OR LONG RADIUS 90 DEGREE MJ BEND.
 - PROVIDE STANDARD JEA FRAME AND COVER.
 - RESTRAIN ALL JOINTS.

RETROFIT SWABBING LAUNCHING STATION DETAIL FOR WATER MAINS UP TO 24" - SECTION

JANUARY 2020 PLATE W-45D

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 642-9890
FAX: (904) 642-9890
CA 00002594 LC 0000316

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NO.	BY	DATE	REVISIONS
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5			
4			
3			
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1			

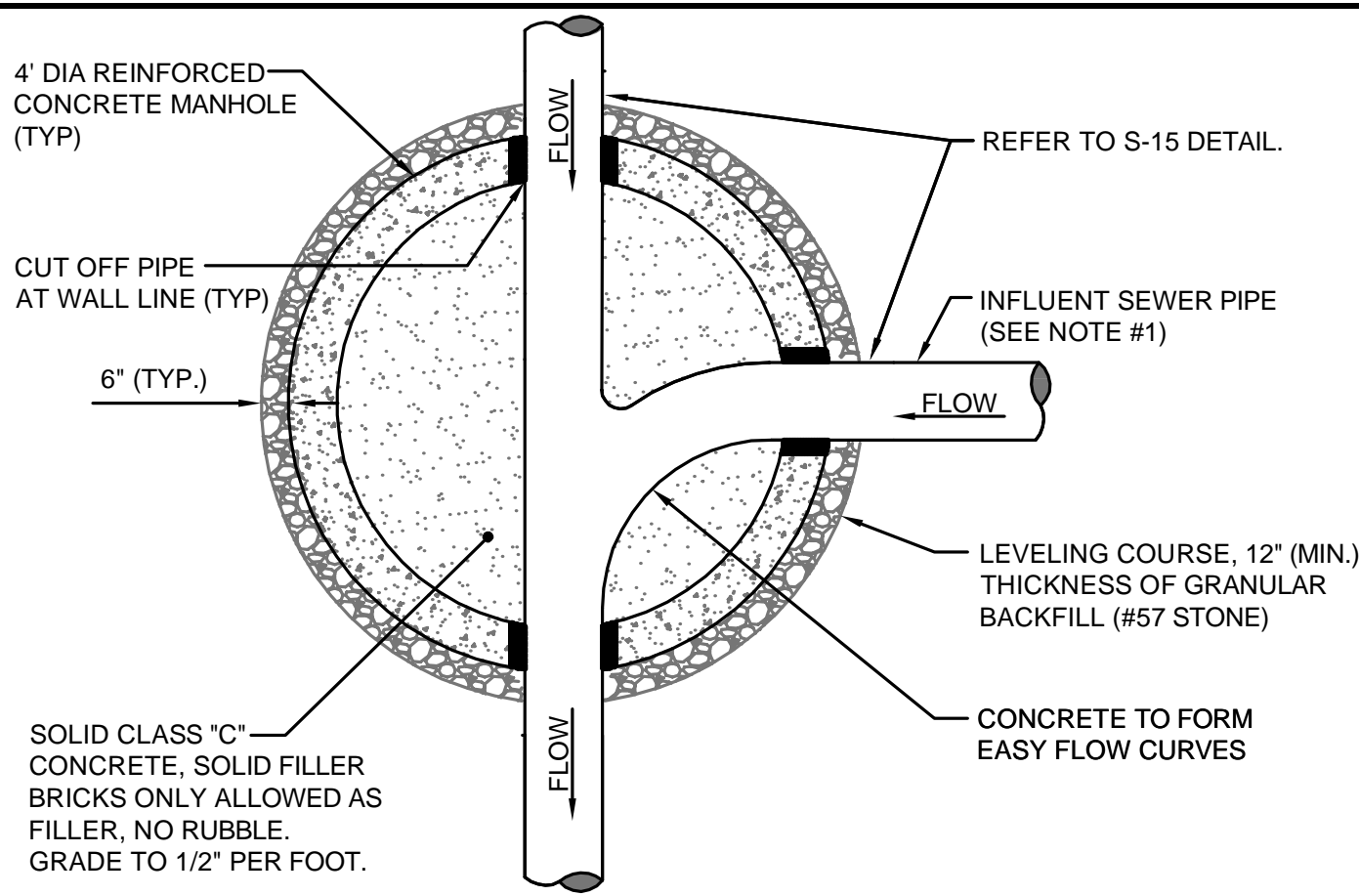
DESIGNER:	DESIGN ENGINEER
DRAWN BY:	LYNDSEY KELLER
DATE:	FLORIDA REGISTRATION NO.
CHECKED BY:	77763
DATE:	

JEA STANDARD
WATER AND RECLAIM DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

PROJ. NO. 17-252-01-001
DATE: JANUARY 2020
SCALE: AS NOTED

NO. SHEETS	SHEET NO.	DRAWING NO.
6	6	11G

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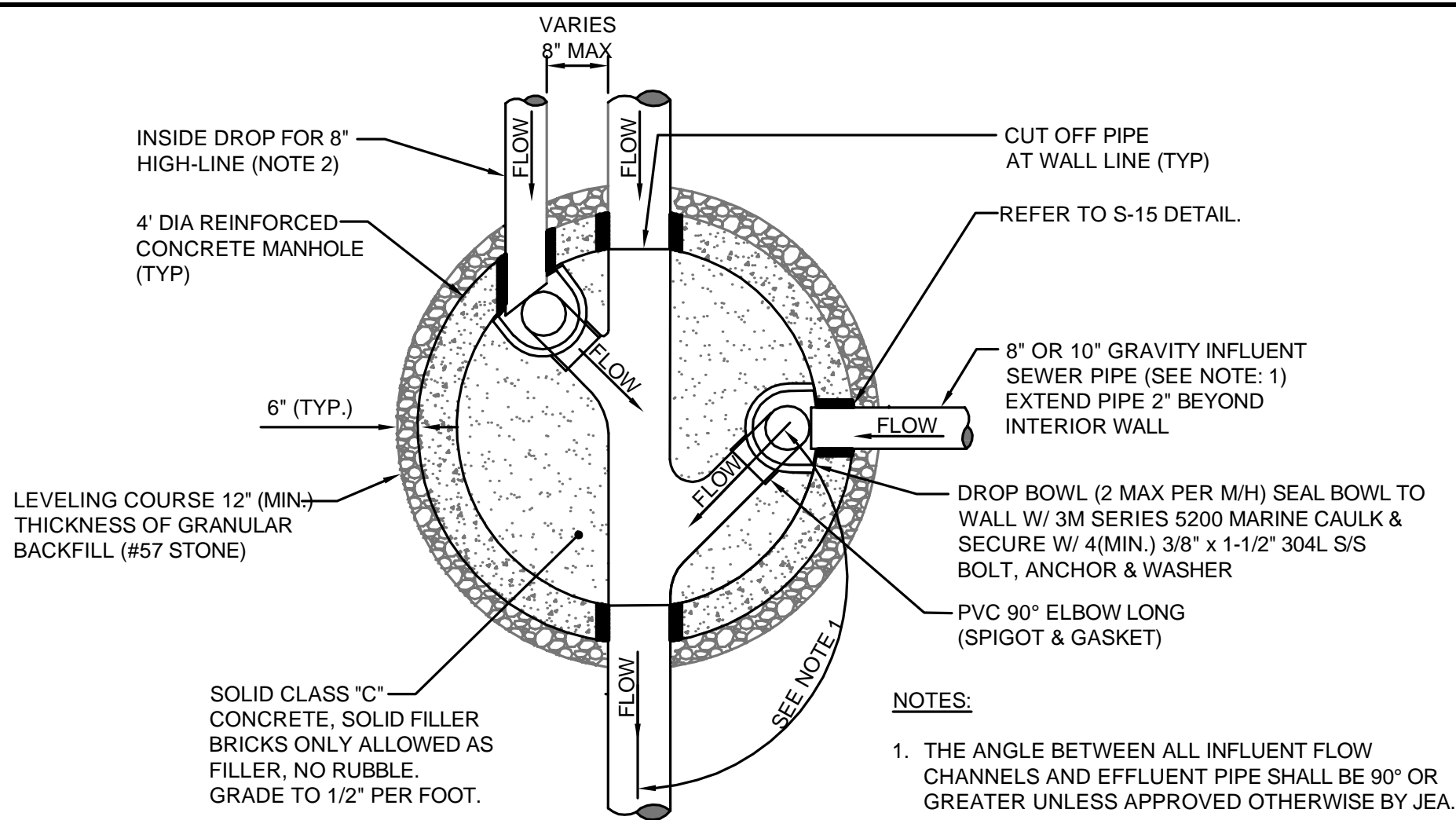


NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE BETWEEN 90° - 180° UNLESS OTHERWISE APPROVED BY JEA.

PLAN VIEW (S-3)

(FOR SECTION VIEW SEE S-2)

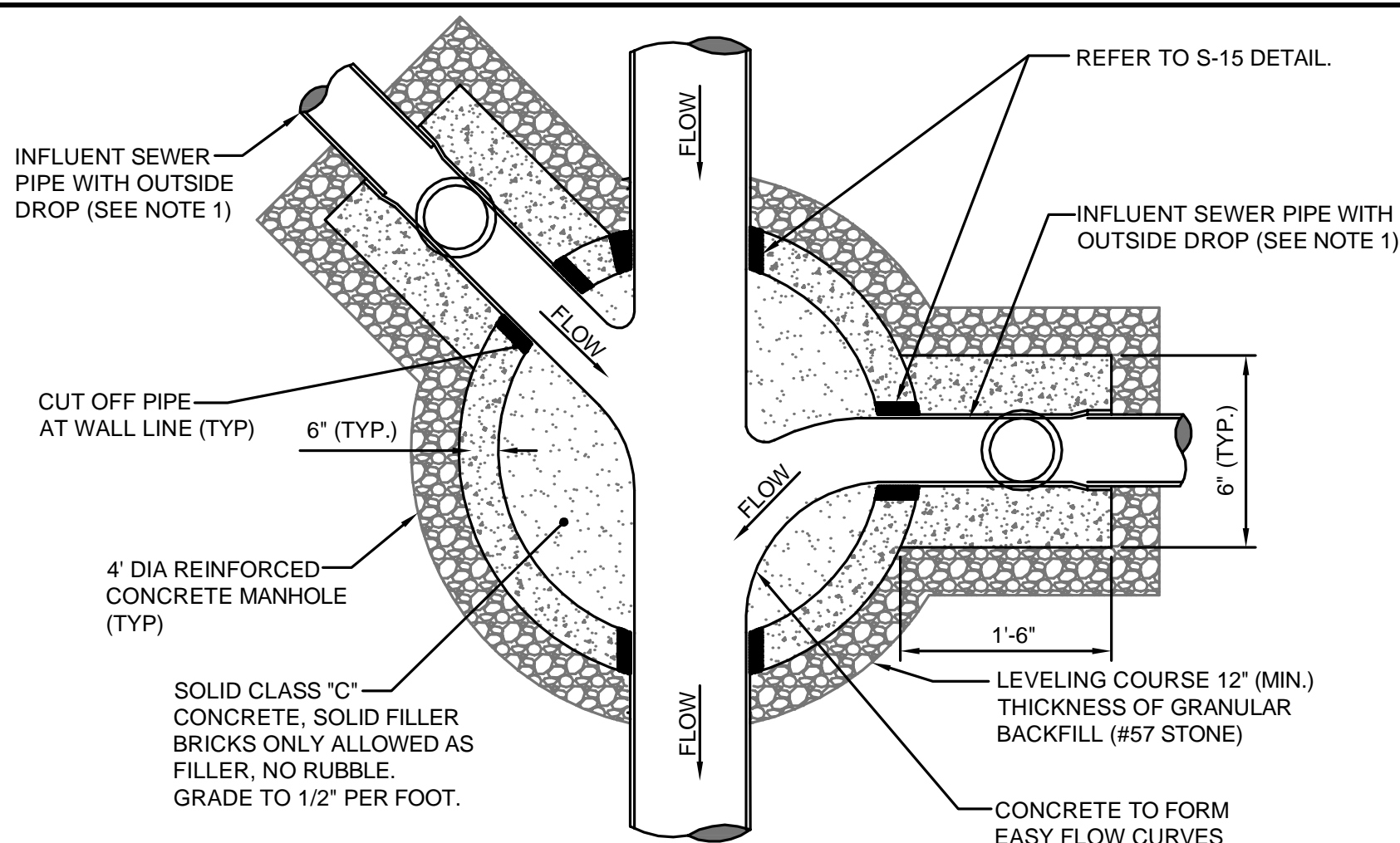


NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE 90° OR GREATER UNLESS APPROVED OTHERWISE BY JEA.
2. THE 8" HIGH-LINE, WHERE UTILIZED, SHALL ENTER THE MANHOLE ON-CENTER OR OFF-CENTER AS SHOWN ABOVE.

PLAN VIEW (S-5)

(FOR SECTION VIEW SEE S-4)

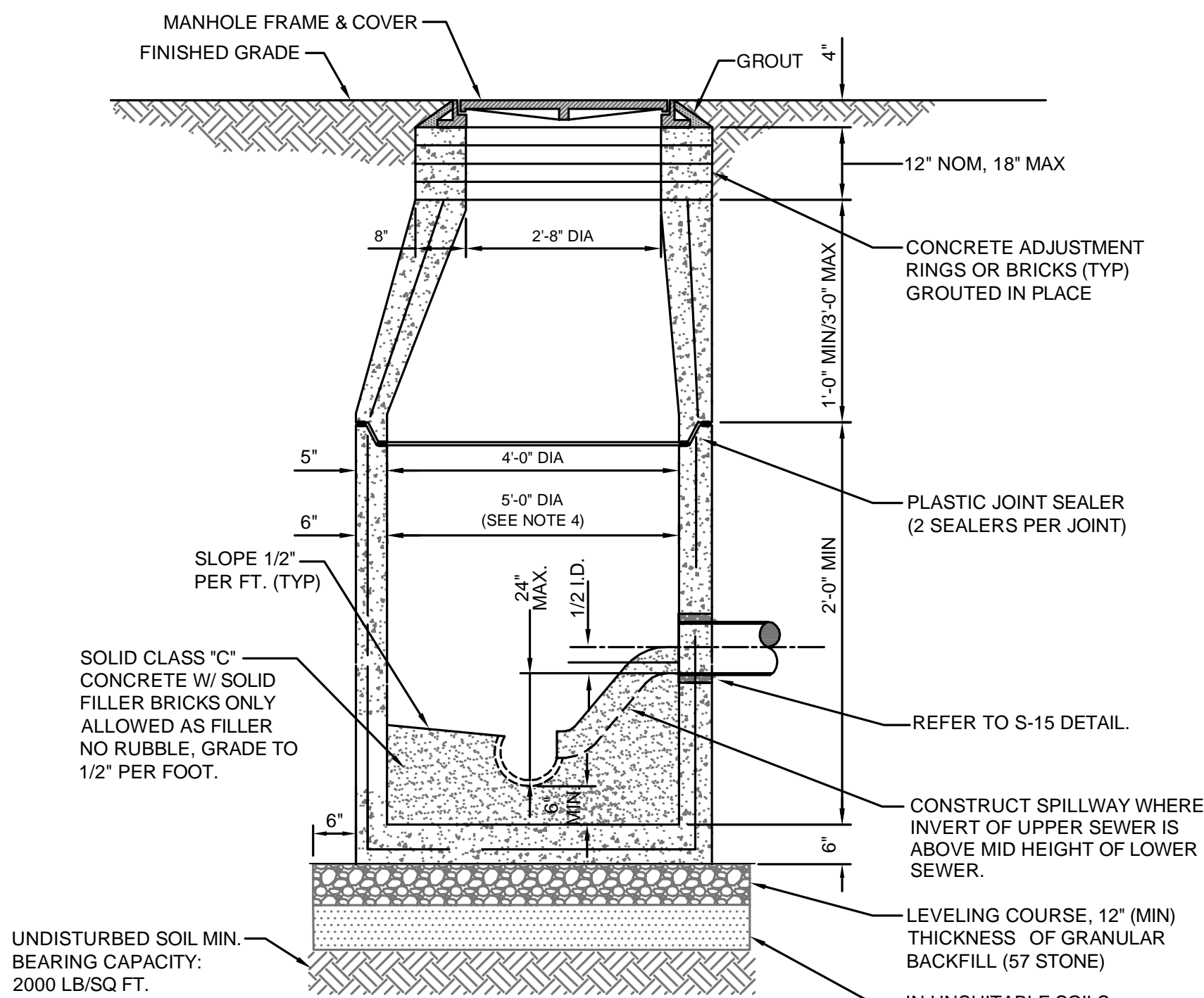


NOTES:

1. THE ANGLE BETWEEN ALL INFLUENT FLOW CHANNELS AND EFFLUENT PIPE SHALL BE 90° OR GREATER UNLESS APPROVED OTHERWISE BY JEA.
2. THE INTERIOR AND EXTERIOR OF THE MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE GIVEN 2 COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. TYPE 'D' MANHOLES SHALL BE USED FOR 12" OR LARGER INFLUENT PIPES W/ 2' OR GREATER INFLUENT DROP.

PLAN VIEW (S-8)

(FOR SECTION VIEW SEE S-7)



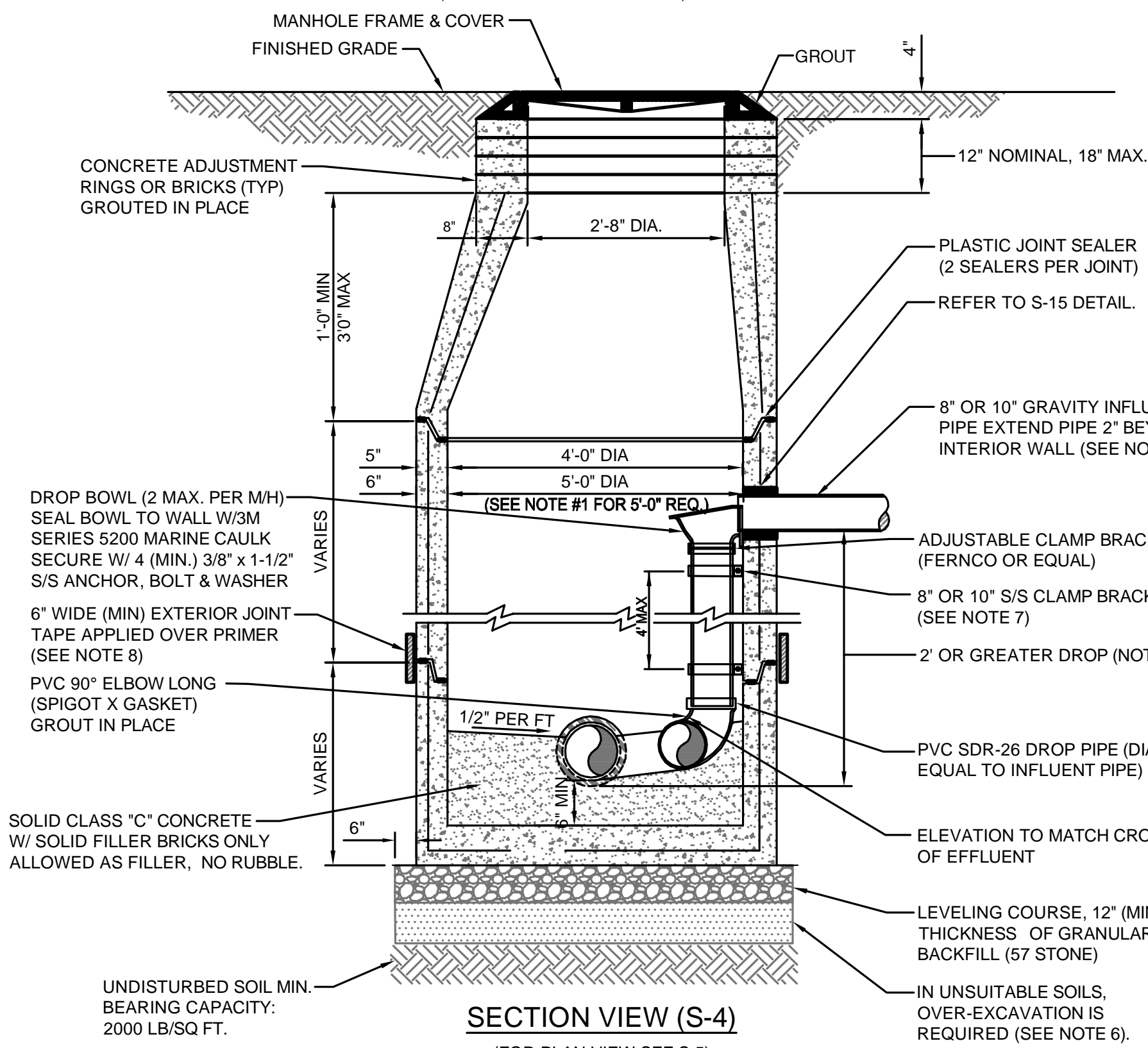
NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND ADJUSTING RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING MATERIAL SHALL BE OMITTED ON THE INSIDE.
4. JUNCTION MANHOLE (CLOSEST TO WETWELL) SHALL BE 5' DIA WITH SPECIALTY LINER.
5. ALL MANHOLE JOINTS BELOW THE TOP COVER SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (WITH PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL. SEE PLATE S-17.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

SANITARY SEWER TYPE "A" MANHOLE
8"-21" SEWERS

JANUARY 2020

PLATES S-2, S-3



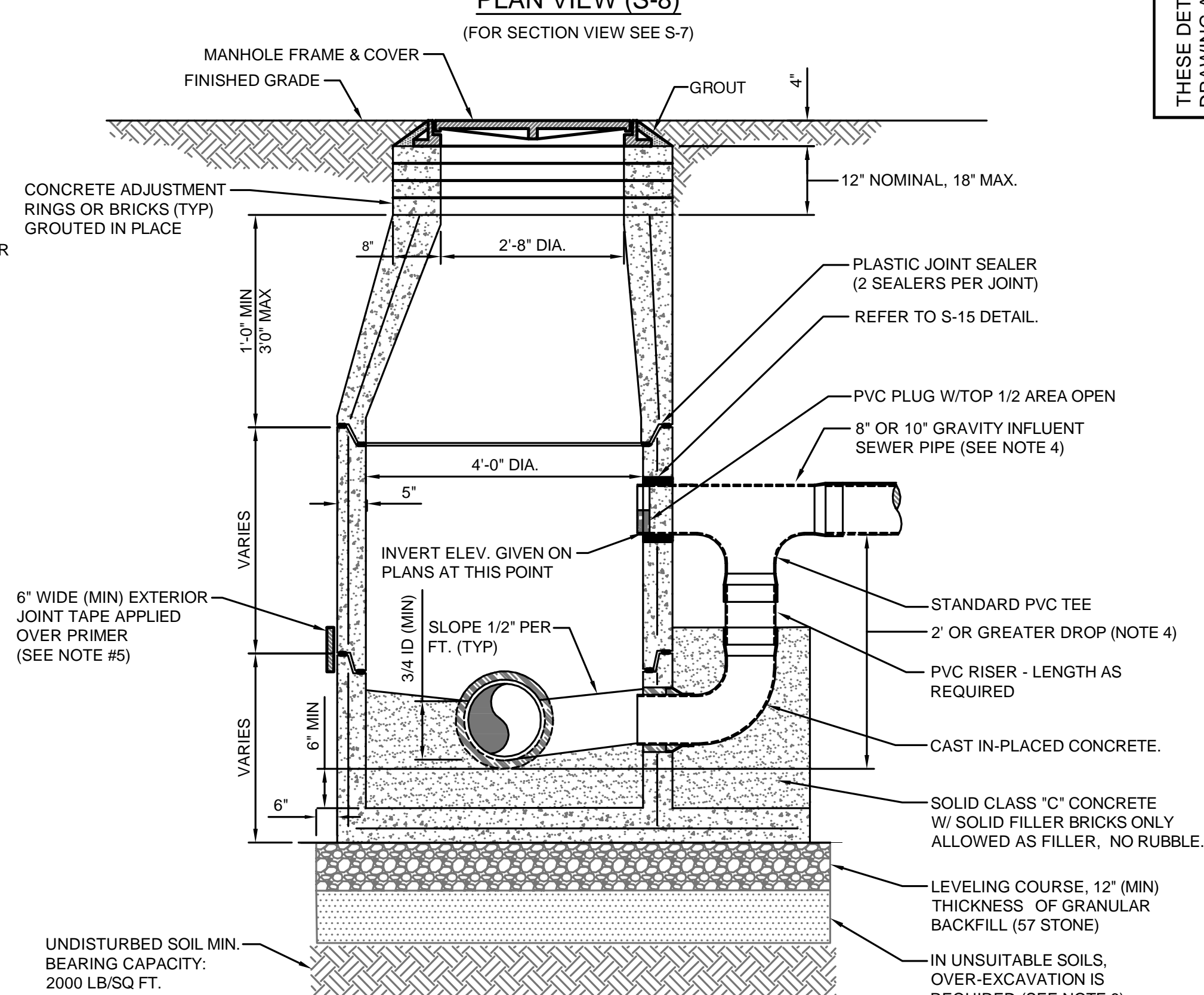
NOTES:

1. THIS ASSEMBLY IS FOR 8" OR 10" GRAVITY INFLUENT LINES ONLY. NO DROPS ALLOWED FOR FORCE MAINS. MAXIMUM OF 2 INSIDE DROP BOWLS PER MANHOLE. A 5'-0" DIA. MANHOLE (6" THICK WALLS) IS REQUIRED IF TWO INSIDE DROPS ARE CONSTRUCTED WITH ONE OR BOTH BEING 10" SIZE. DROP BOWL BY RELINER OR APPROVED EQUAL REQUIRED. THE INSIDE DROP FOR AN 8" HIGH-LINE SHALL BE CONSTRUCTED SIMILAR TO ABOVE (SEE PLATE S-5).
2. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
3. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
4. TYPE 'B' MANHOLE MUST BE USED FOR 2' OR GREATER INFLUENT PIPE DROPS.
5. THE DROP BOWL ASSEMBLY SHALL BE INSTALLED PRIOR TO APPLICATION OF SPECIALTY LINING MATERIAL.
6. A TYPE 'D' MANHOLE SHALL BE UTILIZED WHEN THREE OR MORE (2' OR GREATER) DROPS ARE INVOLVED OR WHEN INFLUENT PIPES AREA LARGER THAN 10' IN SIZE.
7. ADJUSTABLE CLAMPING BRACKET (MIN. 2 PER DROP BOWL ASSY), 1-1/2" WIDE, 11 GA. W/ 3/8" DIA. 18-8 PINCH BOLTS AND NUTS. SECURE TO MH WALL WITH (2) 3/8" X 1" BOLT, ANCHOR & WASHER PER BRACKET ASSY. ALL 304 OR 316 STAINLESS STEEL MATERIALS.
8. ALL M/H JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.
9. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

SANITARY SEWER TYPE "B" MANHOLE
8"-10" SEWERS

JANUARY 2020

PLATES S-4, S-5



NOTES:

1. PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
2. THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE GIVEN TWO COATS OF BITUMINOUS WATERPROOFING MATERIAL.
3. IF SPECIALTY LINER IS TO BE INSTALLED ON INSIDE SURFACE OF MANHOLE, THE BITUMINOUS WATERPROOFING SHALL BE, OMITTED ON INSIDE.
4. TYPE 'D' MANHOLE SHALL BE USED FOR 12" OR LARGER INFLUENT PIPES W/ 2' OR GREATER INFLUENT DROP.
5. ALL MH JOINTS BELOW THE TOP CONE SECTION SHALL INCLUDE A 6" WIDE (MIN) EXTERIOR JOINT TAPE (W/PRIMER). TAPE ON THE CONE SECTION IS OPTIONAL.
6. IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (#57 STONE).

SANITARY SEWER TYPE "D" MANHOLE
12"-21" SEWERS

JANUARY 2020

PLATES S-7, S-8

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 642-9890
FAX: (904) 642-9895
E-MAIL: info@etm-inc.com
CA 00020294 LC 0000316

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DRAWING ARE BY THE JEA. WE TAKE
NO EXCEPTION TO THE DESIGN

NO.	BY	DATE	REVISIONS
1	LYNDSAY KELLER		
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DESIGNER:	LYNDSAY KELLER
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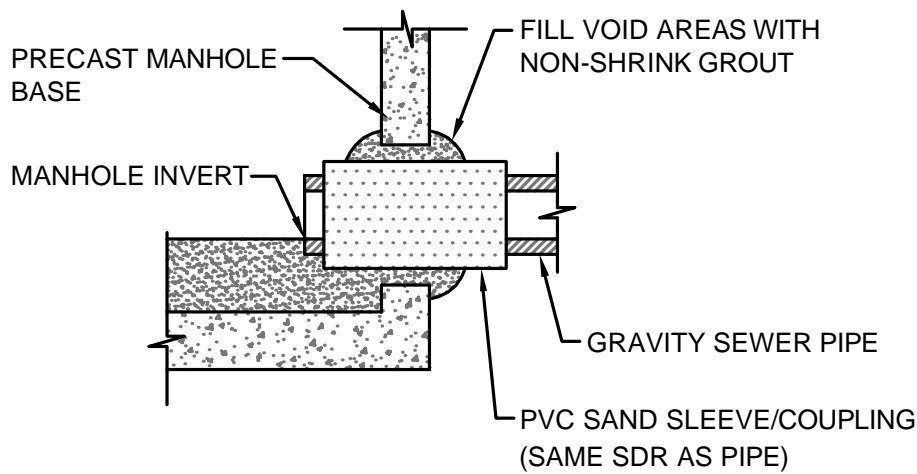
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DATE:	JANUARY 2020
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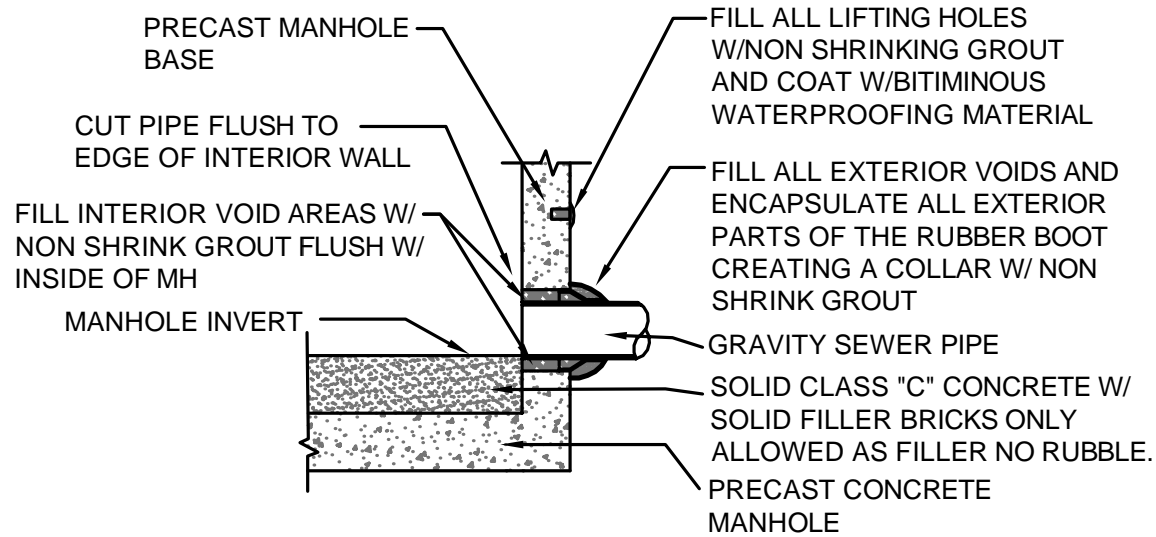
JEA STANDARD
SANITARY SEWER DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

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PVC SAND SLEEVE
(FOR EXISTING AND NEW M/H CONSTRUCTION)

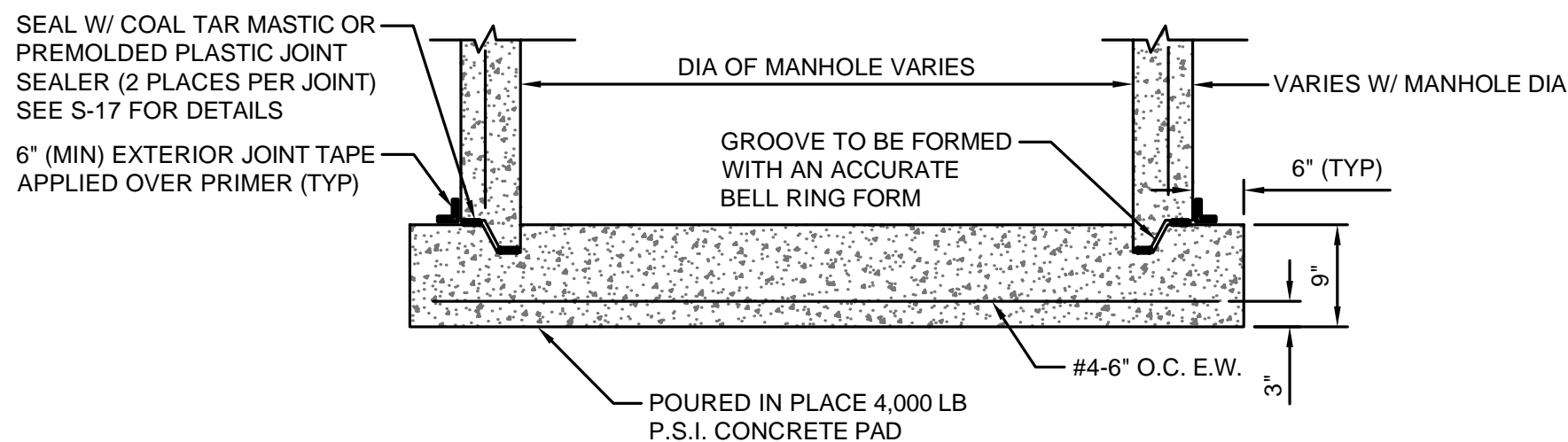


NOTES:

RUBBER BOOT, DOUBLE BANDED, 316 S/S CLAMPS, MEETING THE ASTM C923 STANDARD. Kor-N-Seal® I EX SERIES CONNECTOR WITH DOUBLE STAINLESS STEEL BANDS OR EQUAL

RUBBER BOOT

(FOR NEW M/H CONSTRUCTION ONLY, MAXIMUM DEPTH 15FT)



NOTES:

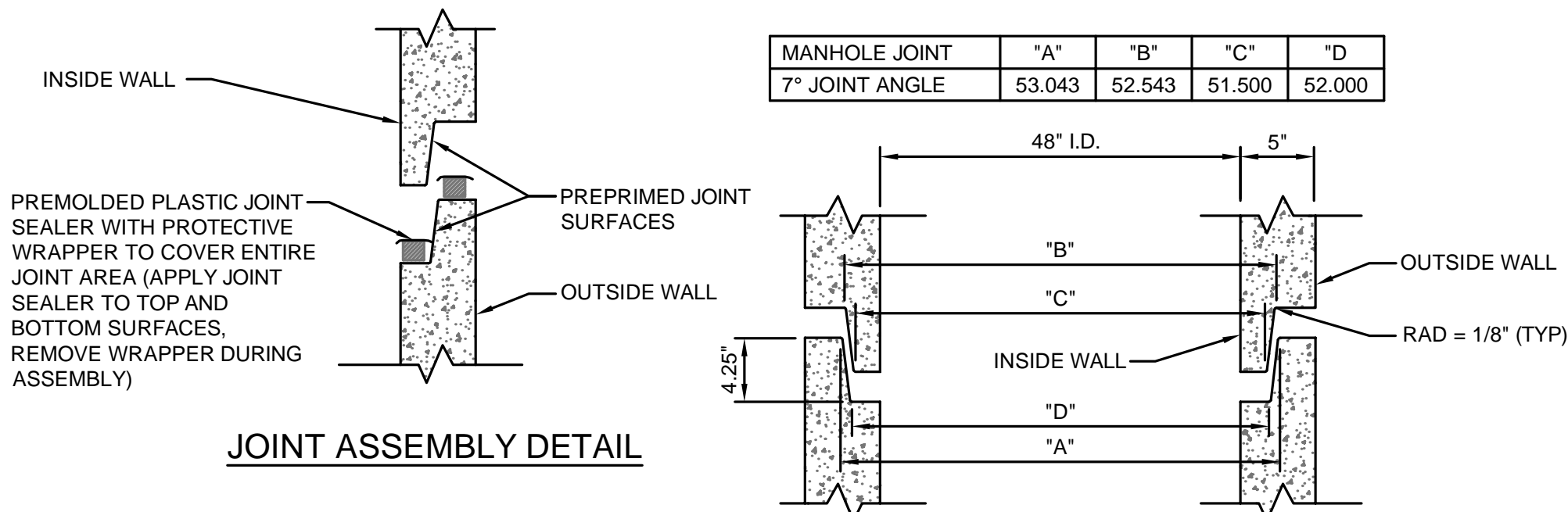
THE USE OF THE POURED IN PLACE MANHOLE BOTTOM SHALL BE MINIMIZED AND SHALL BE SPECIFICALLY APPROVED BY JEA PRIOR TO CONSTRUCTION.

MANHOLE BOTTOM

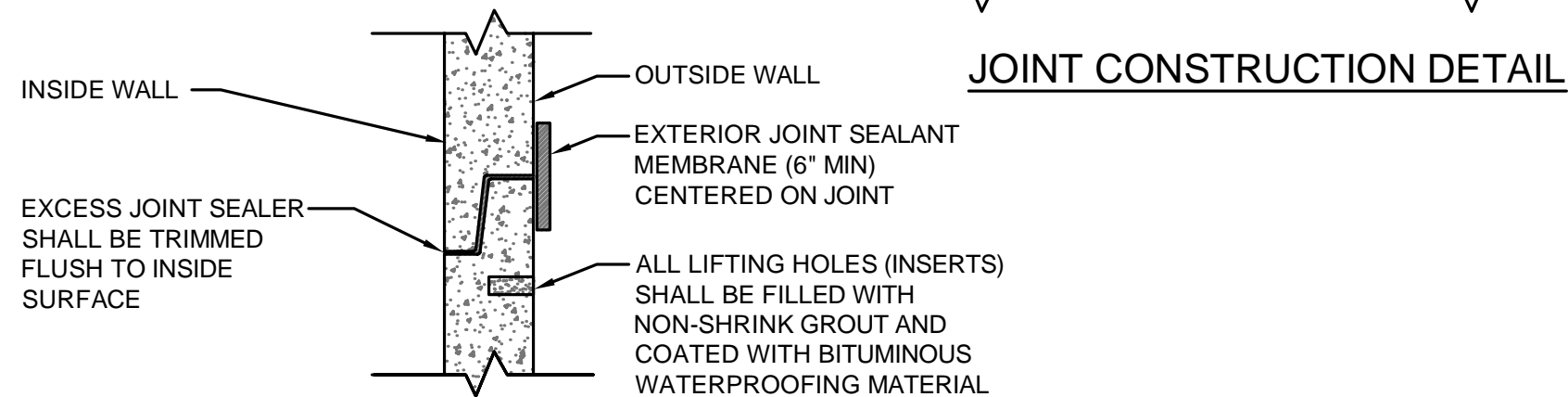
MANHOLE PIPE CONNECTION DETAIL

JANUARY 2020

PLATE S-15



JOINT ASSEMBLY DETAIL

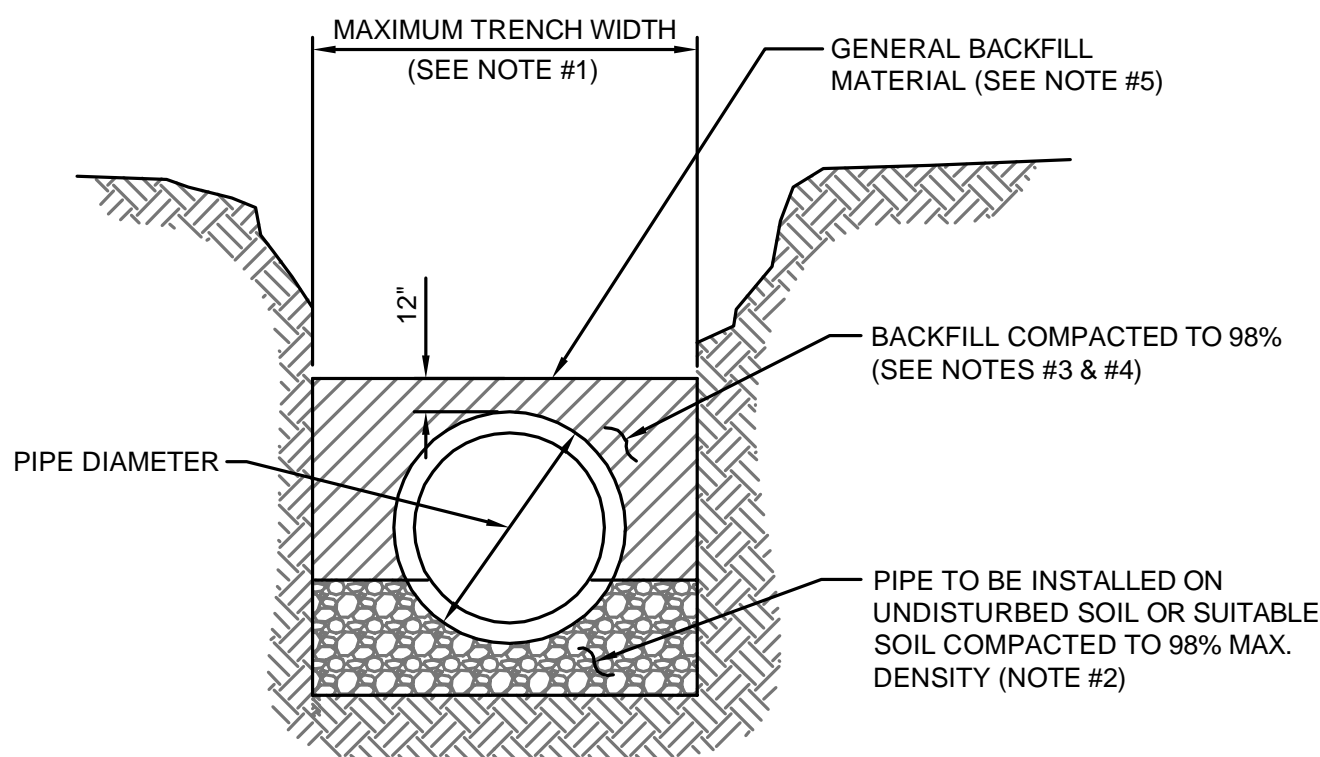


COMPLETED JOINT DETAIL

PRECAST SEWER MANHOLE JOINT DETAIL

JANUARY 2020

PLATE S-17



TYPICAL TRENCH

NOTES:

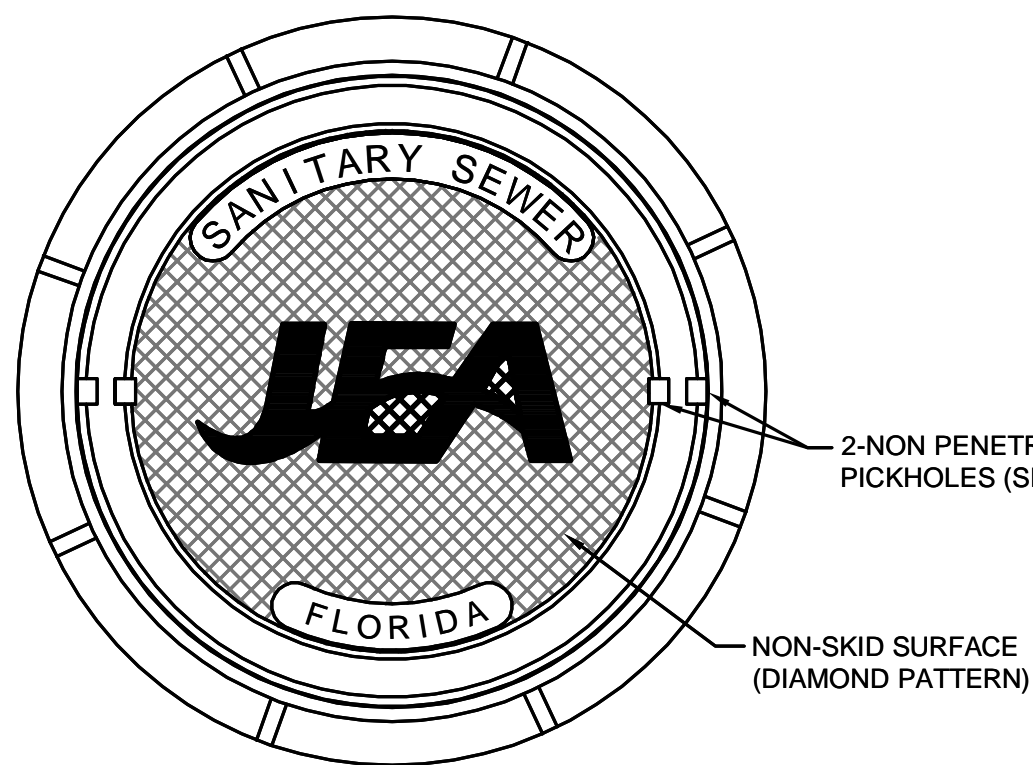
- TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
- BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
- BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
- BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D1557.
- SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

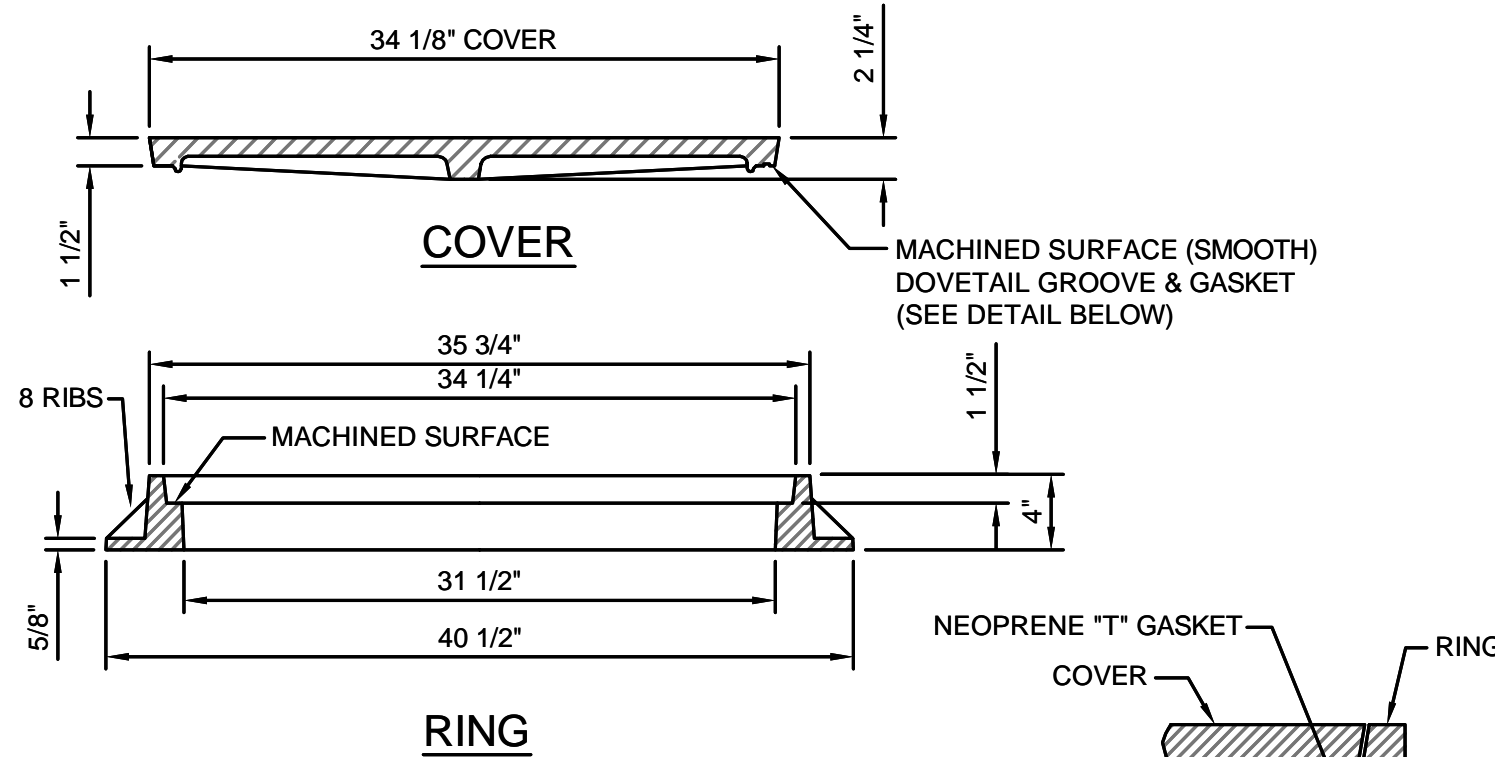
JANUARY 2020

IN CITY RIGHT -OF-WAY

PLATE W-42



PICKHOLE DETAIL



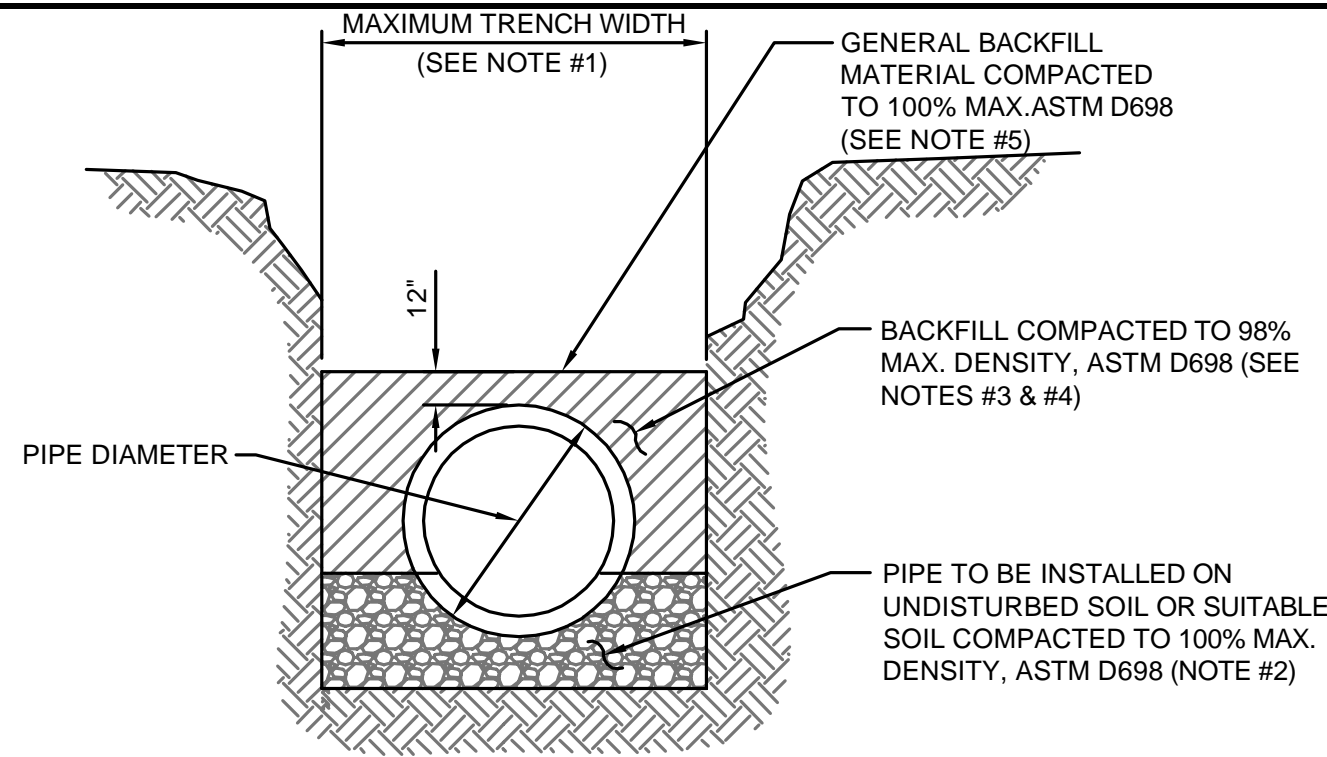
NOTES:

- MATERIAL: ASTM A-48 CLASS 35B GRAY IRON.
- RING WEIGHT 230 LBS APPROX.
- COVER WEIGHT 230 LBS. APPROX.
- ALL DIMENSIONS ARE SHOWN IN INCHES.
- FOR MANHOLES WHICH WILL BE MAINTAINED BY JEA (INCLUDING UTILITY DEDICATION PROJECTS), THE COVER SHALL INCLUDE THE "JEA" LOGO AND A NEOPRENE GASKET.
- FOR MANHOLES WHICH WILL BE MAINTAINED BY PARTIES OTHER THAN JEA (SUCH AS PRIVATE SEWER COLLECTION SYSTEMS, PRIVATE (FORCE MAIN) PUMP OUT BOX AND SYSTEMS NOT MAINTAINED BY JEA), THE COVER SHALL INCLUDE "SANITARY SEWER" GENERIC LETTERING (NO "JEA" LOGO OR NEOPRENE GASKET).

SANITARY SEWER MANHOLE FRAME AND COVER

JANUARY 2020

PLATE S-1



TYPICAL TRENCH

NOTES:

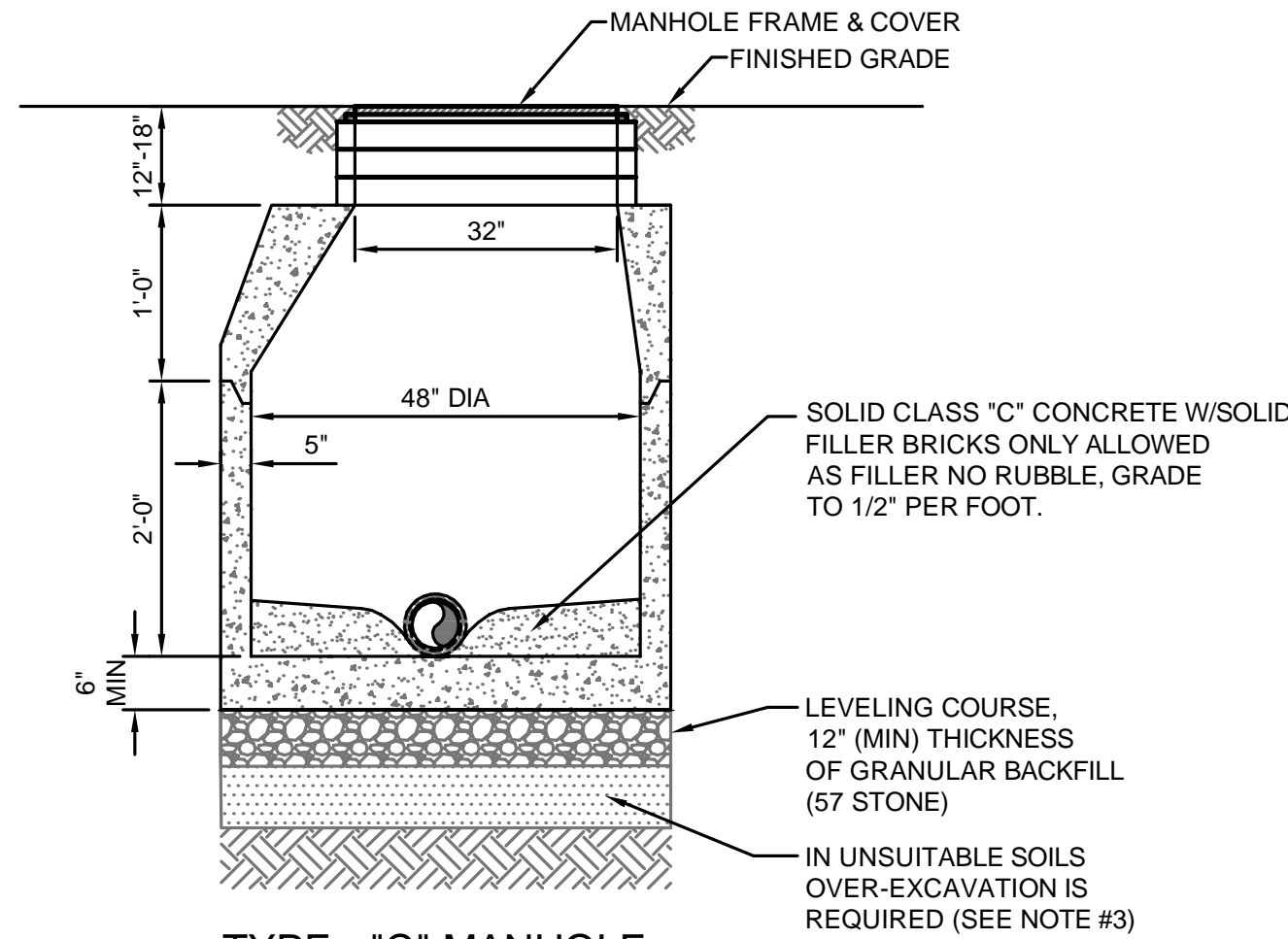
- TRENCH SIDES SHALL BE APPROXIMATELY VERTICAL BETWEEN AN ELEVATION OF 1 FOOT ABOVE THE TOP OF THE PIPE AND THE CENTER LINE OF THE PIPE; OTHERWISE, TRENCH SIDES SHALL BE AS VERTICAL AS POSSIBLE OR AS REQUIRED BY OSHA STANDARDS. REFER TO THE MEASUREMENT AND PAYMENT SECTION (SECTION #801, PARAGRAPH #4)) TO DETERMINE MAXIMUM PAYLINE WIDTHS.
- BELL HOLE SHALL BE DUG TO PERMIT THE ENTIRE STRAIGHT BARREL OF THE PIPE TO REST ON THE UNDISTURBED TRENCH BOTTOM. BOULDERS OR LOOSE ROCKS LARGER THAN 3/4 INCH IN SIZE WILL NOT BE PERMITTED IN BACKFILL UP TO 1 FOOT ABOVE THE TOP OF THE PIPE.
- BACK FILL MATERIAL UP TO A LEVEL OF 1 FOOT OVER THE PIPE SHALL CONSIST OF AASHTO CLASS A-3 SOIL (SUITABLE SOIL) AND SHALL EXCLUDE CLAY MATERIALS AND LOOSE ROCKS LARGER THAN 3/4 INCH SIZE.
- BACKFILL MATERIAL UP TO A LEVEL 1 FOOT OVER THE TOP OF PIPE OR BOTTOM OF STRUCTURES SHALL BE PLACED IN 6 INCH COMPACTED THICKNESS LAYERS AND SHALL BE COMPACTED TO 100% OF ITS MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D698.
- SEE " EXCAVATION AND EARTHWORK", SECTION 408 FOR ADDITIONAL REQUIREMENTS AND EXCEPTIONS INCLUDING REMOVAL AND REPLACEMENT OF UNSUITABLE SOILS, DEWATERING, COMPACTION REQUIREMENTS AND DENSITY TESTING OF COMPACTED SOILS.

OPEN CUT TRENCH FOR PRESSURE PIPE

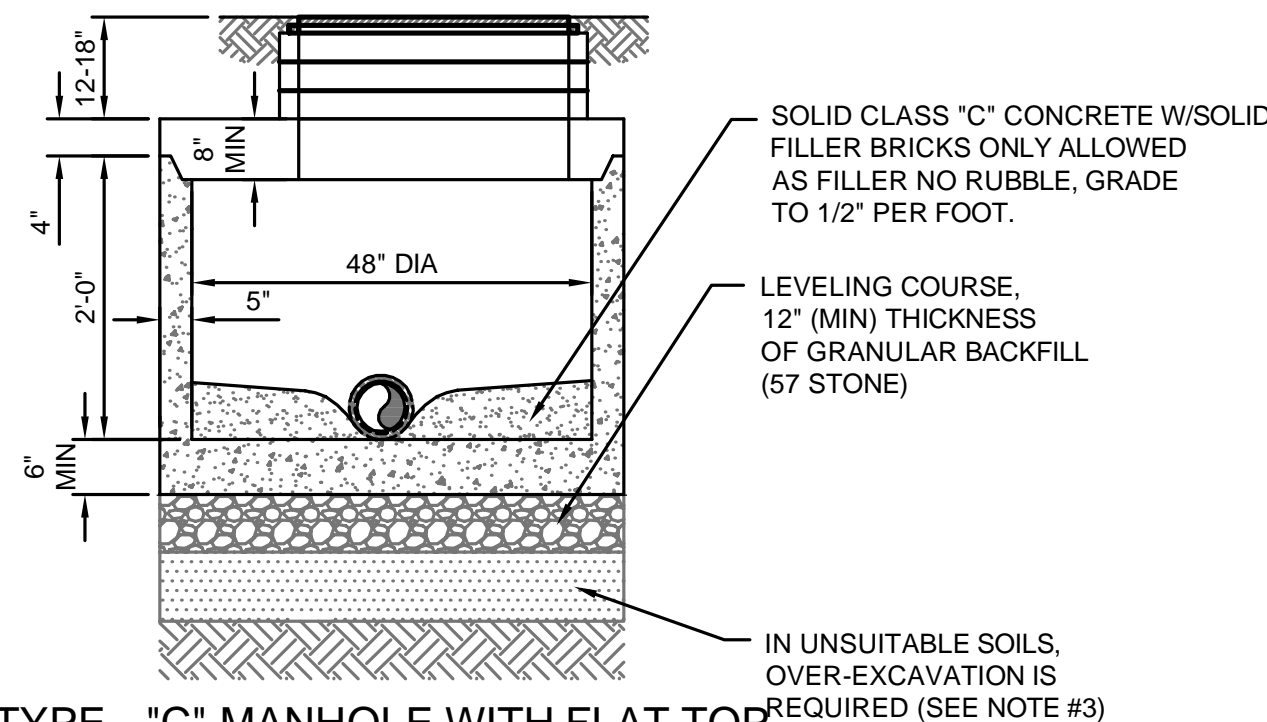
JANUARY 2020

IN STATE ROAD RIGHT -OF-WAY

PLATE W-42A



TYPE - "C" MANHOLE



**TYPE - "C" MANHOLE WITH FLAT TOP
SECTION VIEWS**

NOTES:

- PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIDE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND COATED WITH BITUMINOUS WATERPROOFING MATERIAL.
- THE INTERIOR AND EXTERIOR OF MANHOLE AND INTERIOR OF ADJUSTMENT RINGS SHALL BE GIVEN TWO COAT OF BITUMINOUS WATERPROOFING MATERIAL.
- IN SILTS, CLAY OR HIGHLY ORGANIC SOILS (FINE-GRAINED SOILS INCLUDING SOIL GROUPS ML, CL, OL, MH, CH, OH AND PT) THE SOILS SHALL BE OVER-EXCAVATED AN ADDITIONAL 24" (AT A MIN.) AND BACKFILLED WITH AASHTO CLASS A-3 SOIL (COMPACTED TO 98%, ASTM D1557) OR OVER-EXCAVATE AN ADDITIONAL 12" (AT A MIN.) AND BACKFILL WITH GRANULAR BACKFILL (57 STONE).

**SANITARY SEWER TYPE "C" MANHOLE
8"-21" SEWERS**

JANUARY 2020

PLATE S-6

England, Thims & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 644-9890
FAX: (904) 644-1545
TX: 0002294 LC-0000316

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FLORIDA REGISTRATION NO.	77763

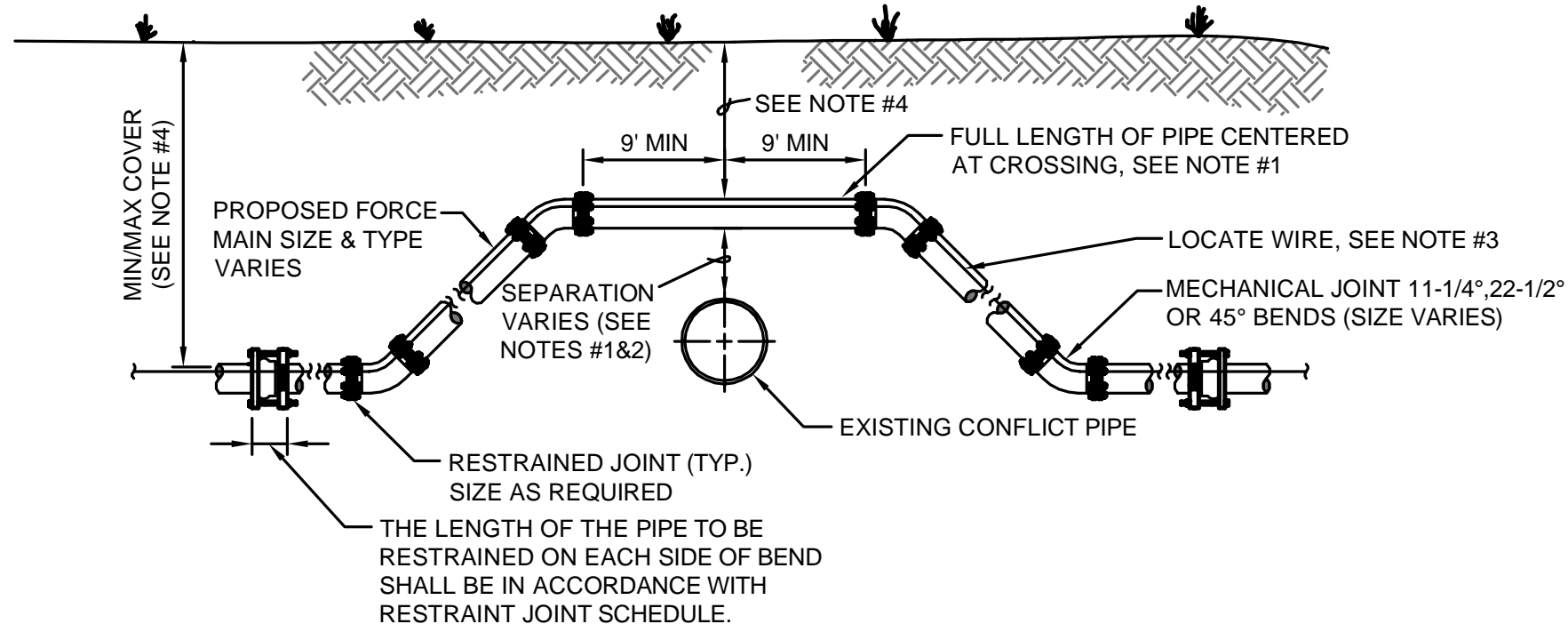
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JEA STANDARD
SANITARY SEWER DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

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CASE "A" CROSSING

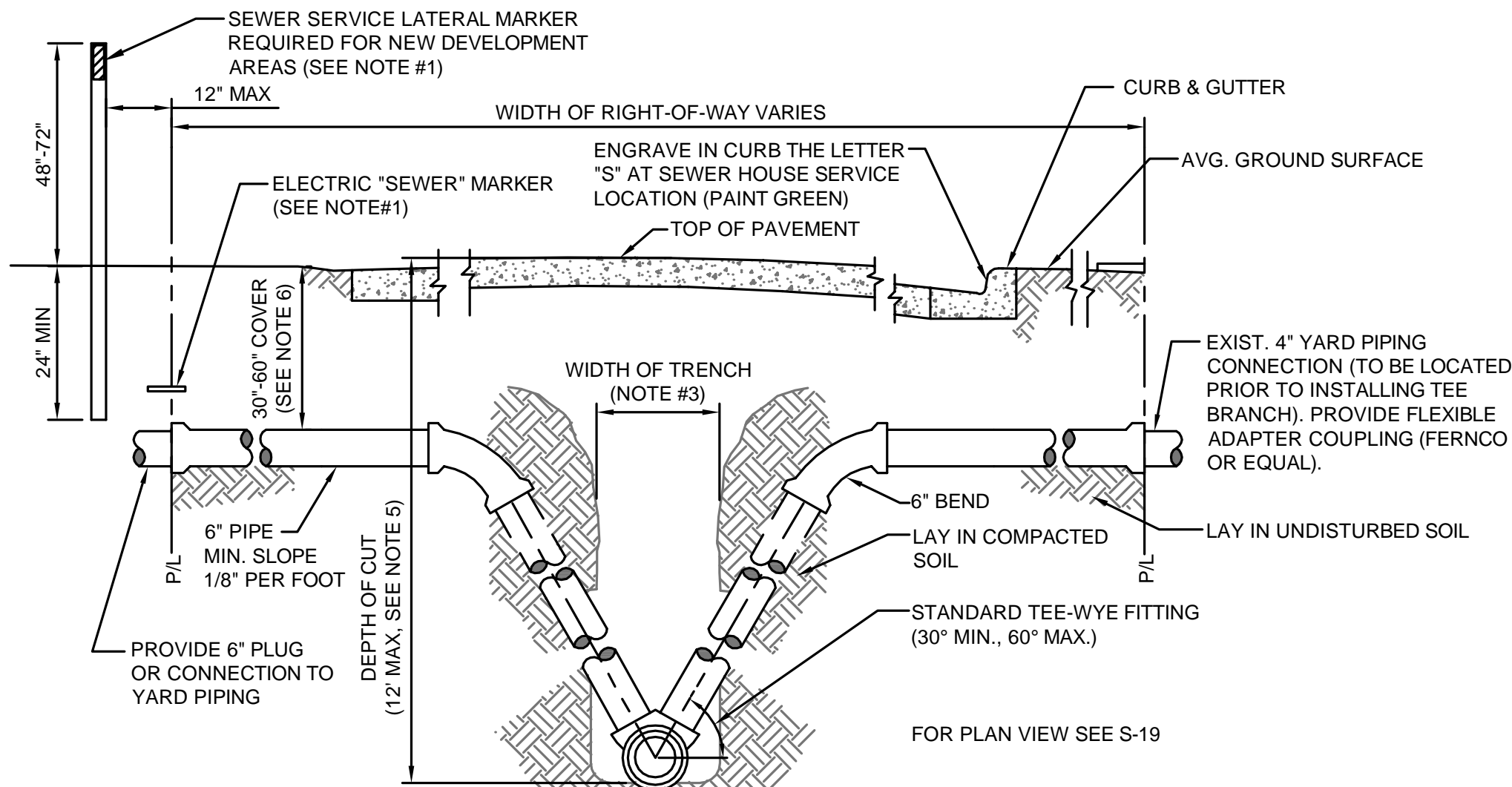
NOTES:

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

ADJUSTMENT OVER EXISTING UTILITIES
MECHANICAL RESTRAINTS

JANUARY 2020

PLATE S-39



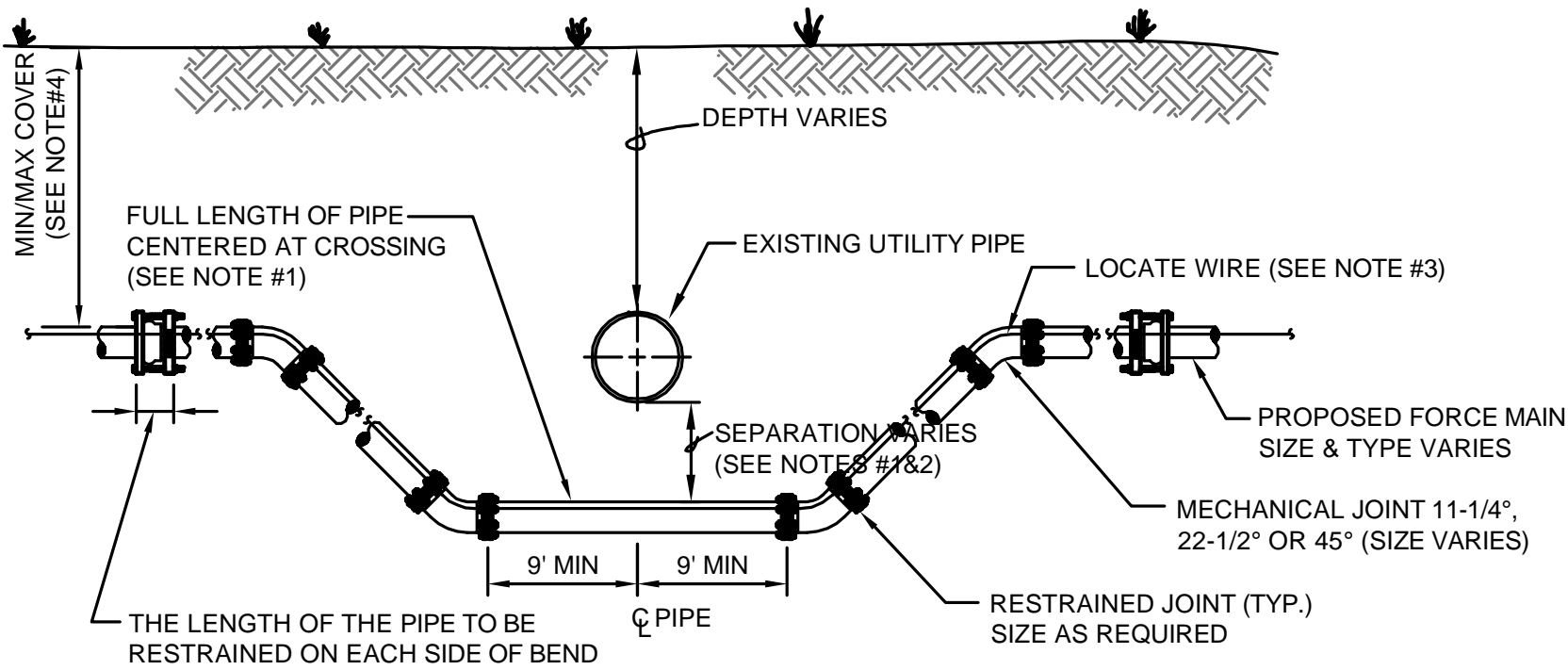
NOTES:

- TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE "NOT" IN USE". FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT" IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED GREEN) SHALL BE INSTALLED. WHERE REQUIRED BY JEA OR NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER SHALL BE INSTALLED TO MARKER SHALL ALSO BE INSTALLED.
- THE MINIMUM SIZE OF ALL HOUSE LATERALS SHALL BE 6 INCHES. THE MAXIMUM LENGTH OF A HOUSE LATERAL SHALL BE 60 FEET (LENGTH BETWEEN SEWER MAIN OR MANHOLE TO CUSTOMERS PROPERTY LINE).
- SEE MEASUREMENT AND PAYMENT SECTION FOR MAXIMUM PAYMENT WIDTHS.
- ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTING) SHALL BE PVC SDR-26.
- UNLESS APPROVED OTHERWISE BY A JEA O&M MANAGER, NO GRAVITY SEWER MAIN WITH SEWER SERVICE LATERALS SHALL BE CONSTRUCTED WITH A "DEPTH OF CUT" GREATER THAN 12 FEET.
- SEWER SERVICE LATERALS ASSOCIATED WITH GRAVITY SEWER MAINS WHICH ARE DEEPER THAN 12 FEET, MUST BE ROUTED TO A GRAVITY SEWER HIGH-LINE, A MANHOLE OR OTHER JEA APPROVED METHOD.
- THE SEWER SERVICE LATERAL SHALL BE CONSTRUCTED AT A DEPTH TO ALLOW A GRAVITY CONNECTION BY THE CUSTOMER, WHERE POSSIBLE (CONTINGENT UPON MEETING THE CUSTOMER'S ON-SITE CONDITIONS AND LOCAL CONSTRUCTION STANDARDS). A LATERAL REQUIRING MORE THAN 60" OF COVER MUST BE APPROVED, PRIOR TO CONSTRUCTION, BY JEA.

HOUSE LATERAL - SECTION VIEW

JANUARY 2020

PLATE S-20



CASE "B" CROSSING

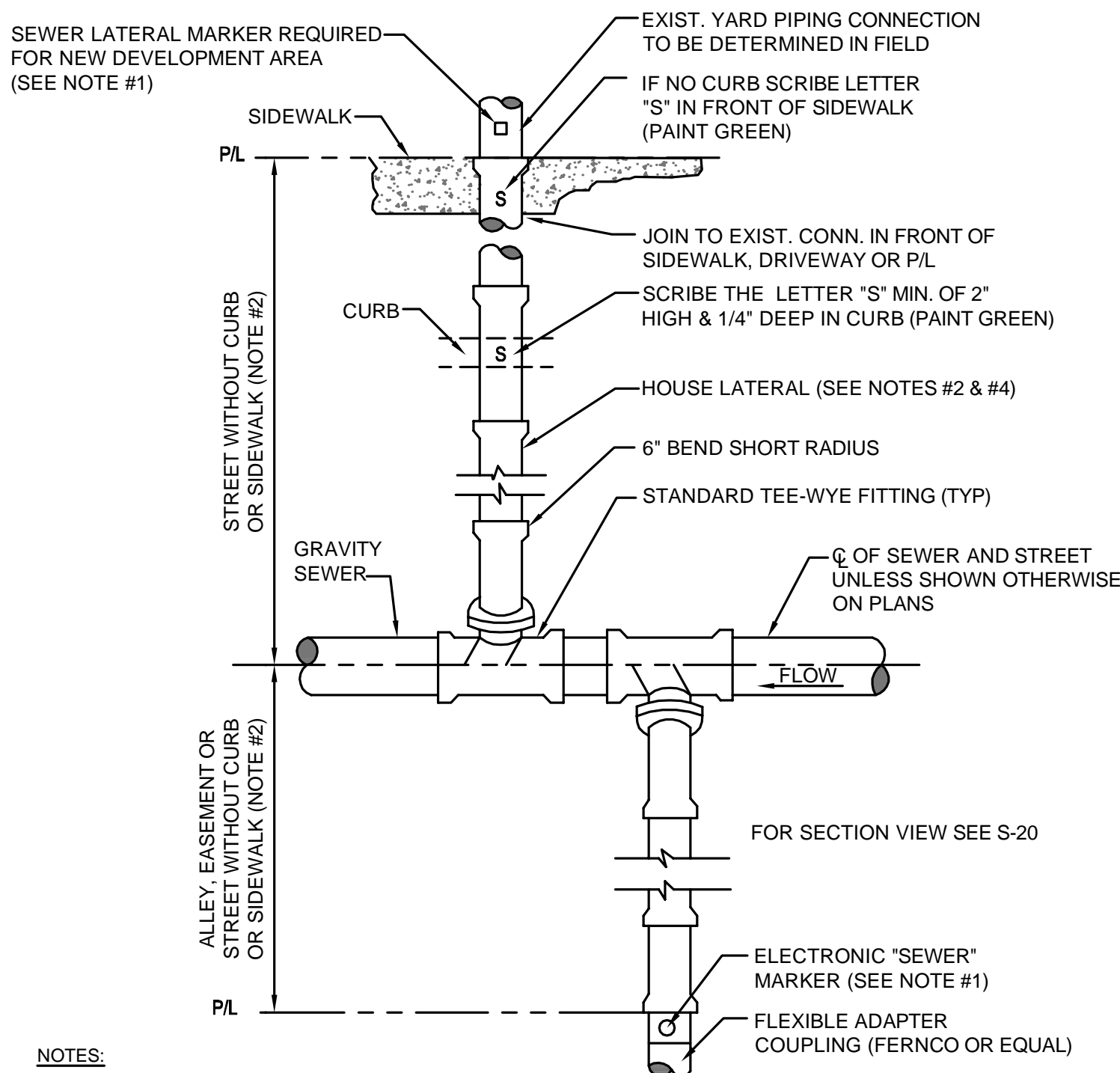
NOTES:

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

ADJUSTMENT UNDER EXISTING UTILITIES
MECHANICAL RESTRAINTS

JANUARY 2020

PLATE S-41



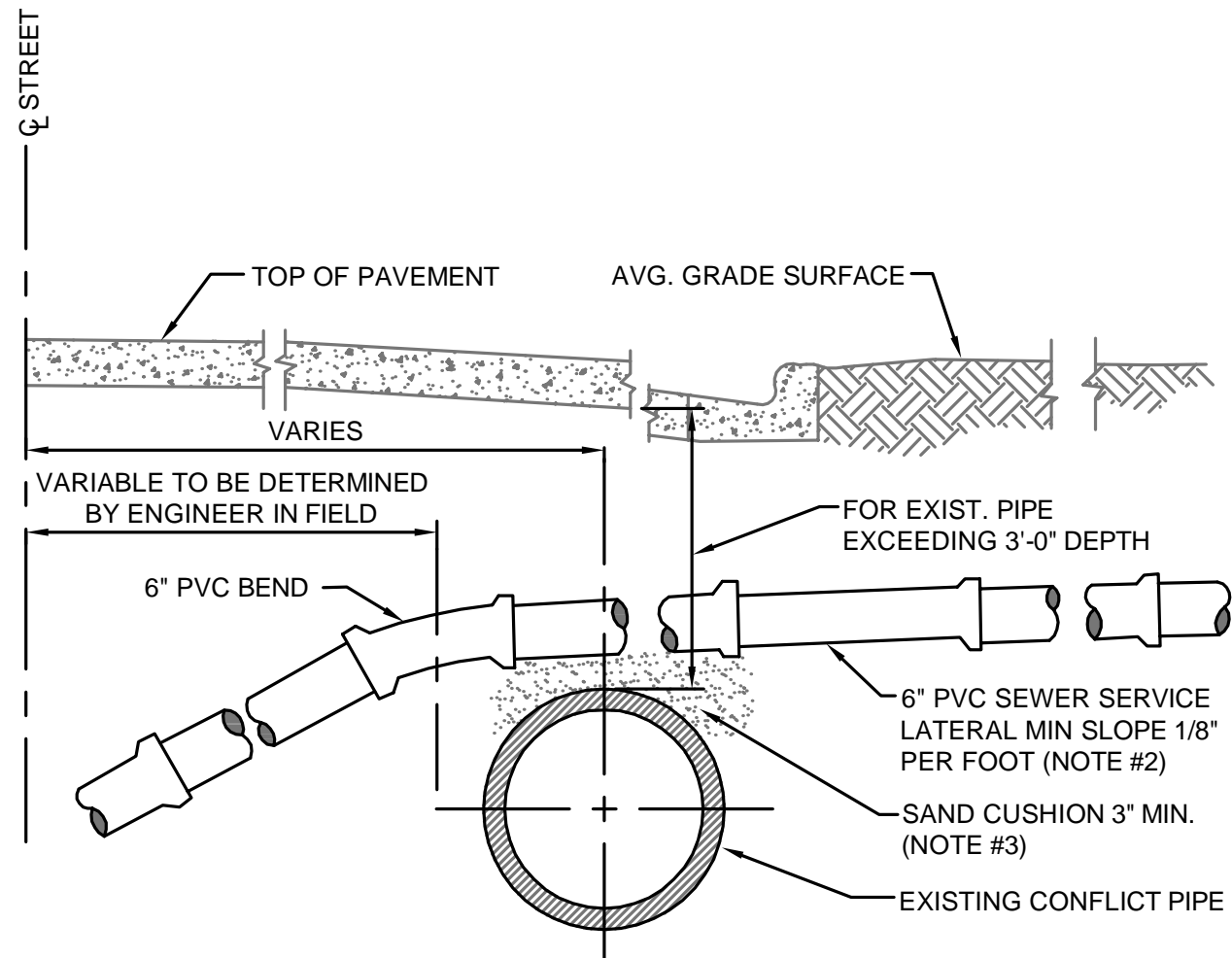
NOTES:

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

HOUSE LATERAL - PLAN VIEW

JANUARY 2020

PLATE S-19



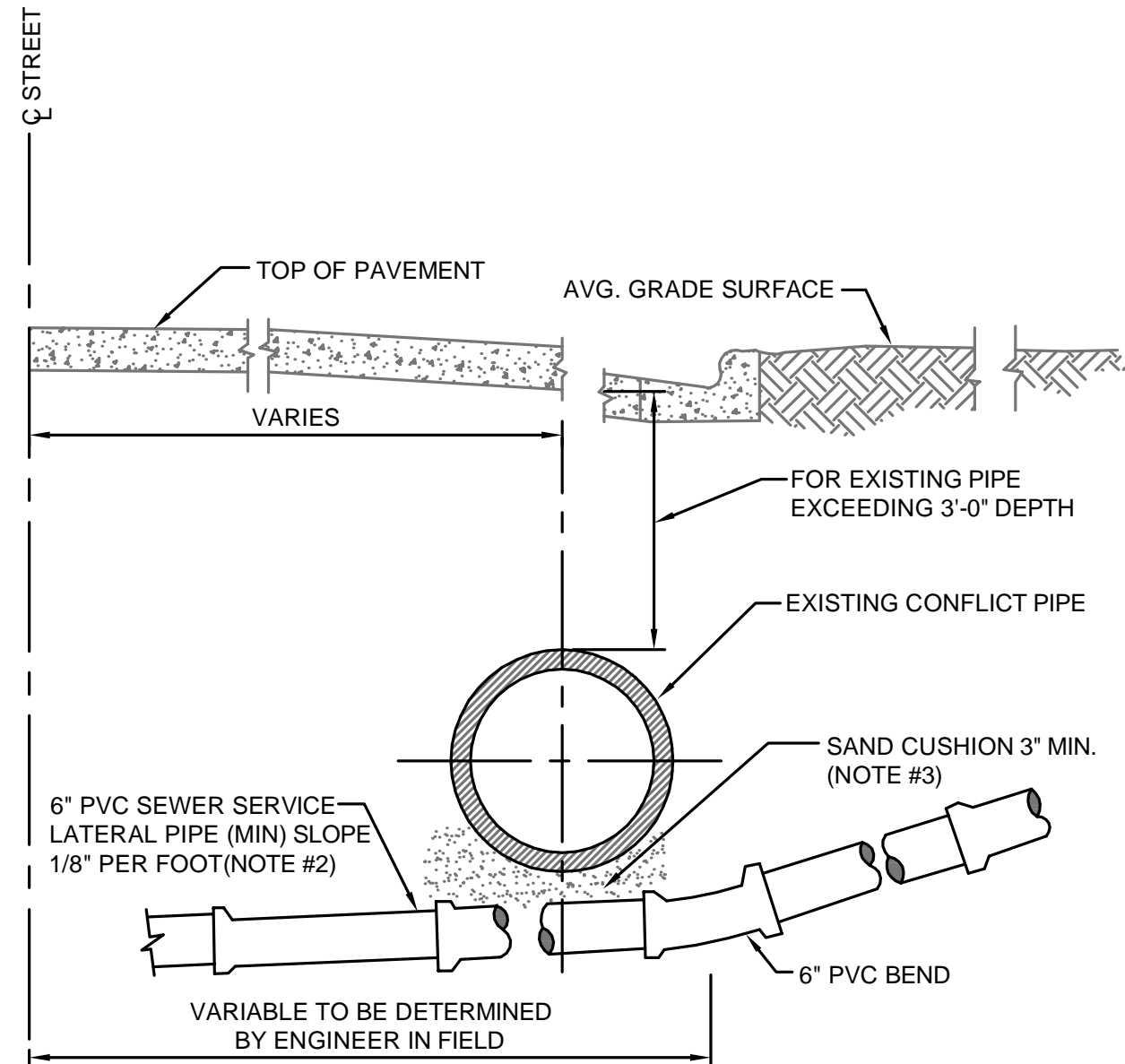
NOTES:

- ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
- FLATTER SLOPES MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION.
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.

HOUSE LATERAL OVER CONFLICT PIPE

JANUARY 2020

PLATE S-23



NOTES:

- ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
- FLATTER SLOPE MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION
- THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY THE LABORATORY MODIFIED PROCTOR TEST, ASTM D 1557.

HOUSE LATERAL UNDER CONFLICT PIPE

JANUARY 2020

PLATE S-24

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 642-9890
FAX: (904) 642-9895
AZ-0002854 LC-0000316

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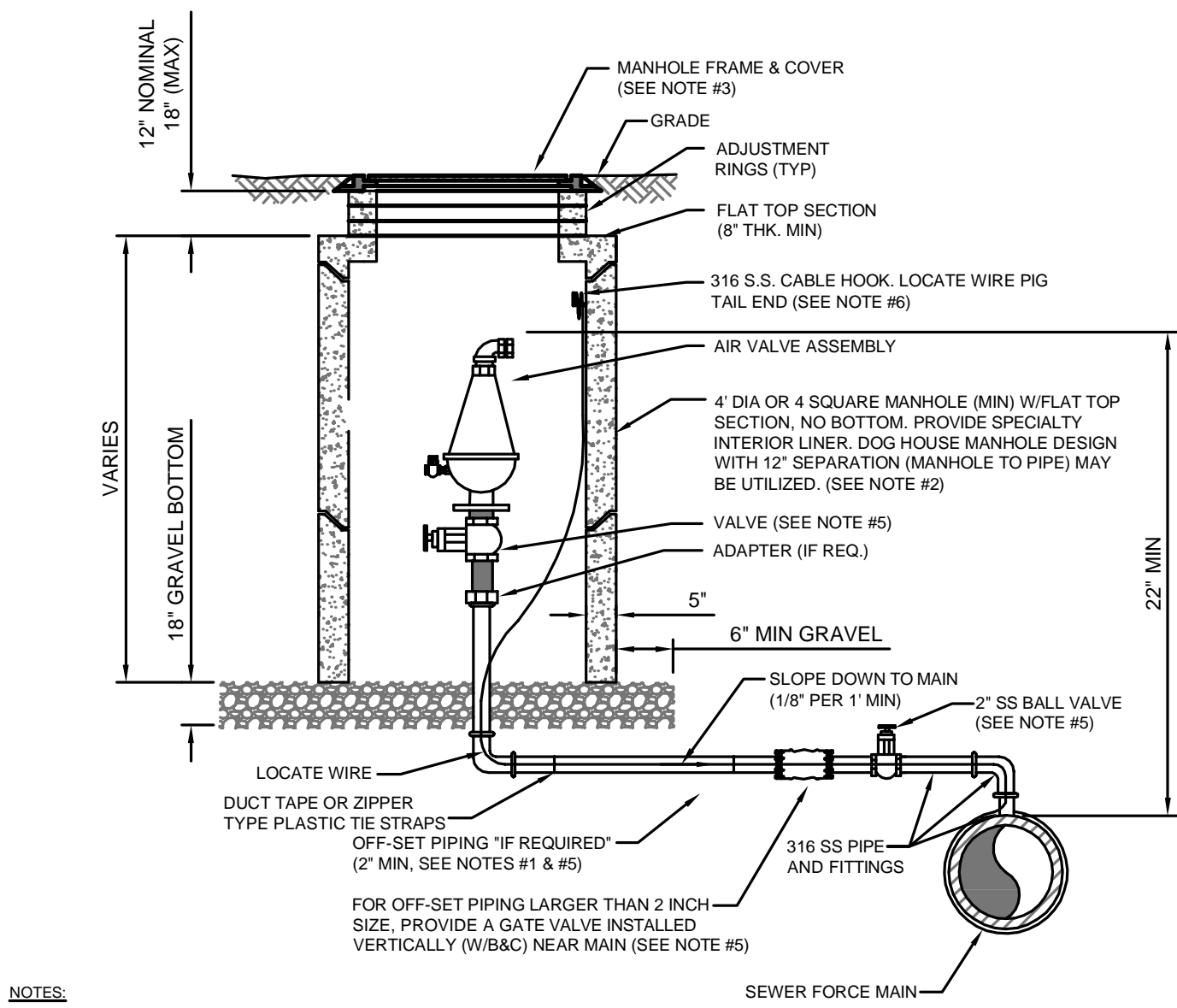
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NO EXCEPTION TO THE DESIGN

DESIGNER:	DESIGN ENGINEER	NO.	BY	DATE	REVISIONS
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DATE:		5			
CHECKED BY:		4			
DATE:	FLORIDA REGISTRATION NO.	3			
	77763	2			
		1.			

JEA
Building Community™

JEA STANDARD
SANITARY SEWER DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

NO. SHEETS	PROJ. NO.	DATE:	SCALE:
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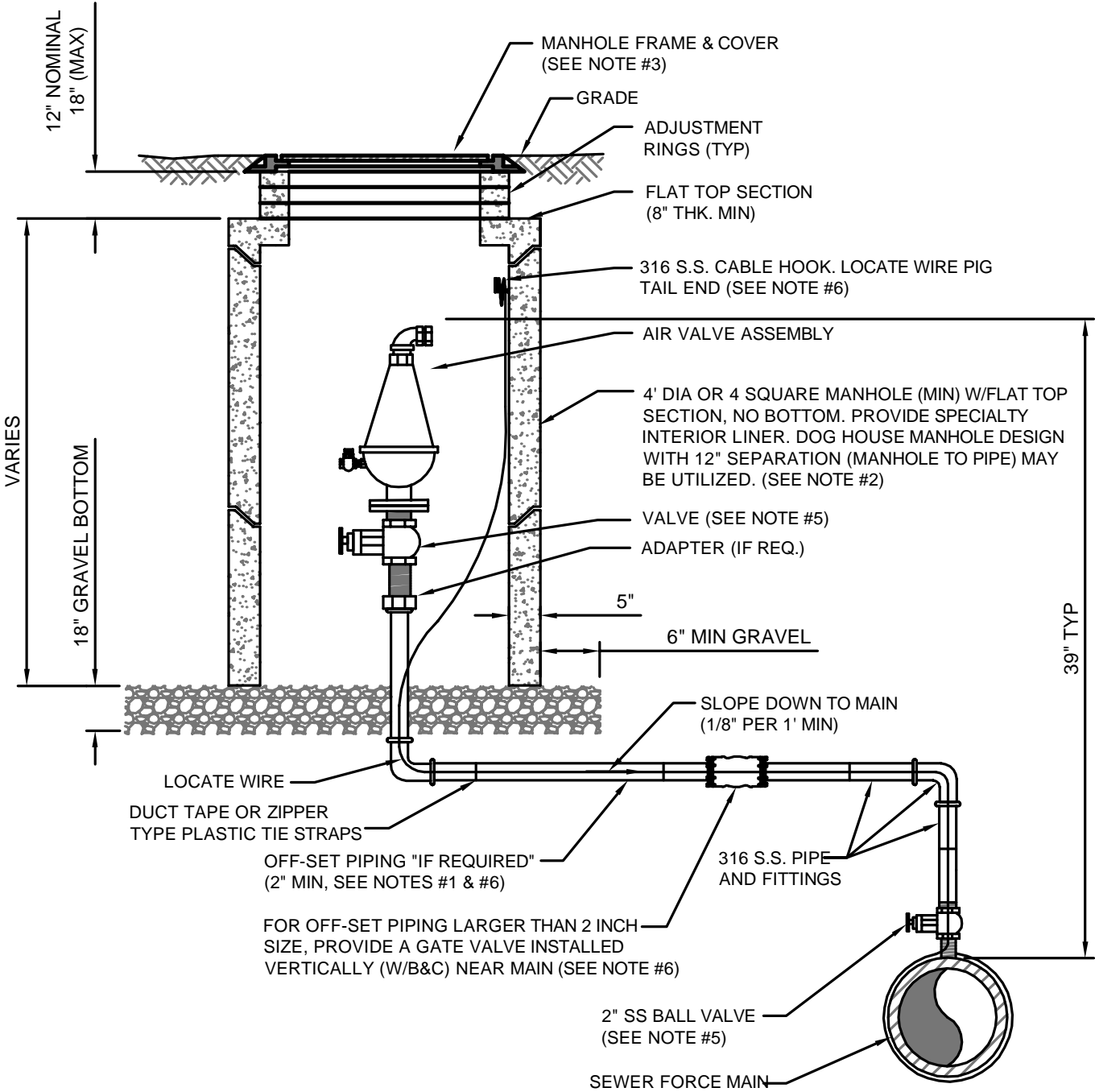
NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER, PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER, PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2\"/>

OPTIONAL LOW PROFILE AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2020

PLATE S-29A



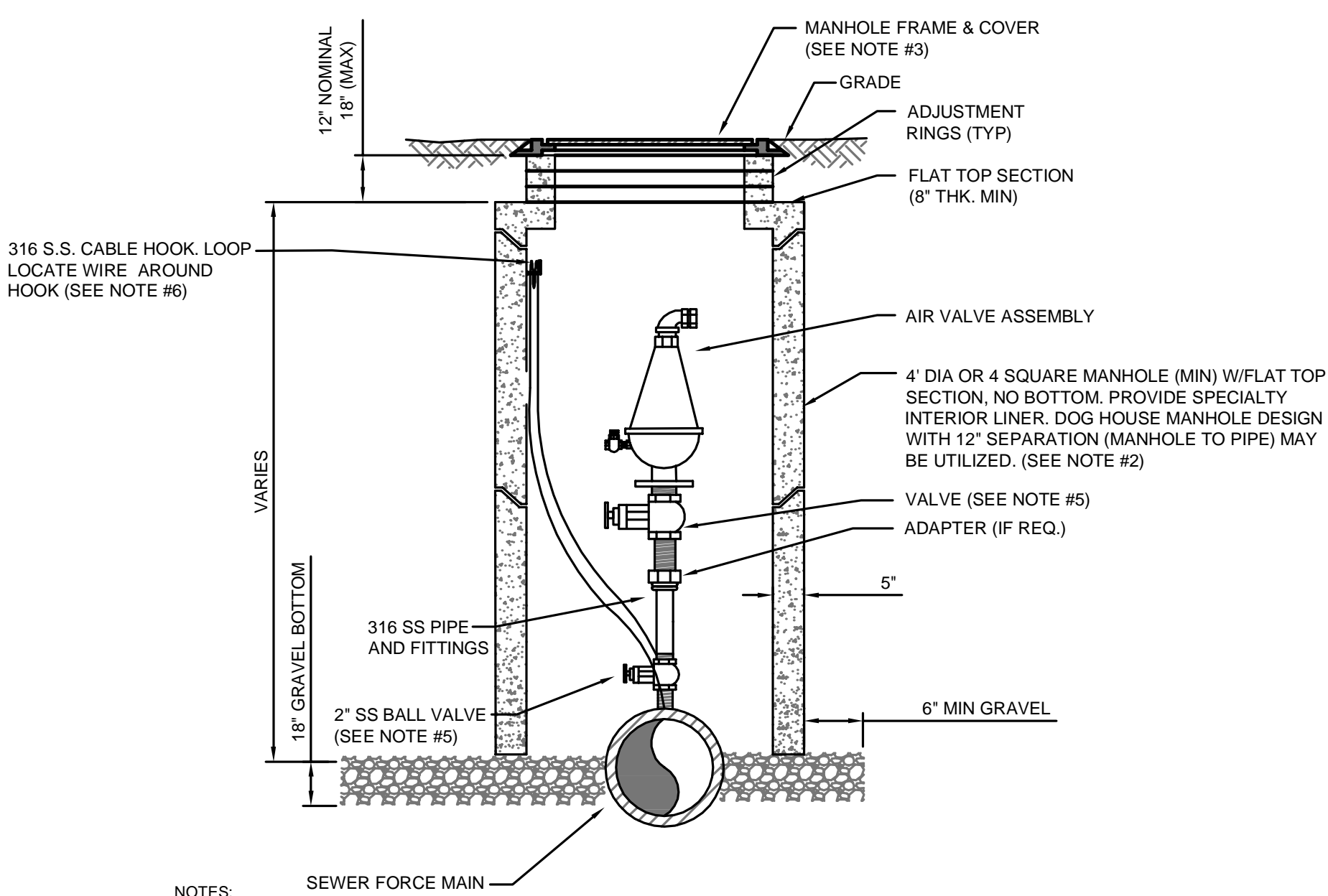
NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS). IF OFF-SET PIPING IS REQUIRED, THE PIPING SHALL BE 2 INCH MINIMUM (SAME SIZE AS AIR VALVE INLET). FOR PIPE SIZES 3 INCH AND SMALLER, PIPING SHALL BE 316 STAINLESS STEEL SCH.40, STD GRADE, THREADED. FOR PIPE SIZES 4 INCH AND LARGER, PIPING SHALL BE 316 STAINLESS STEEL SCH. 10 (MIN), WELDED OR PVC DR-18 PIPE AND FITTINGS-RESTRAINED.
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2\"/>

AIR VALVE ASSEMBLY INSIDE MANHOLE

JANUARY 2020

PLATE S-29



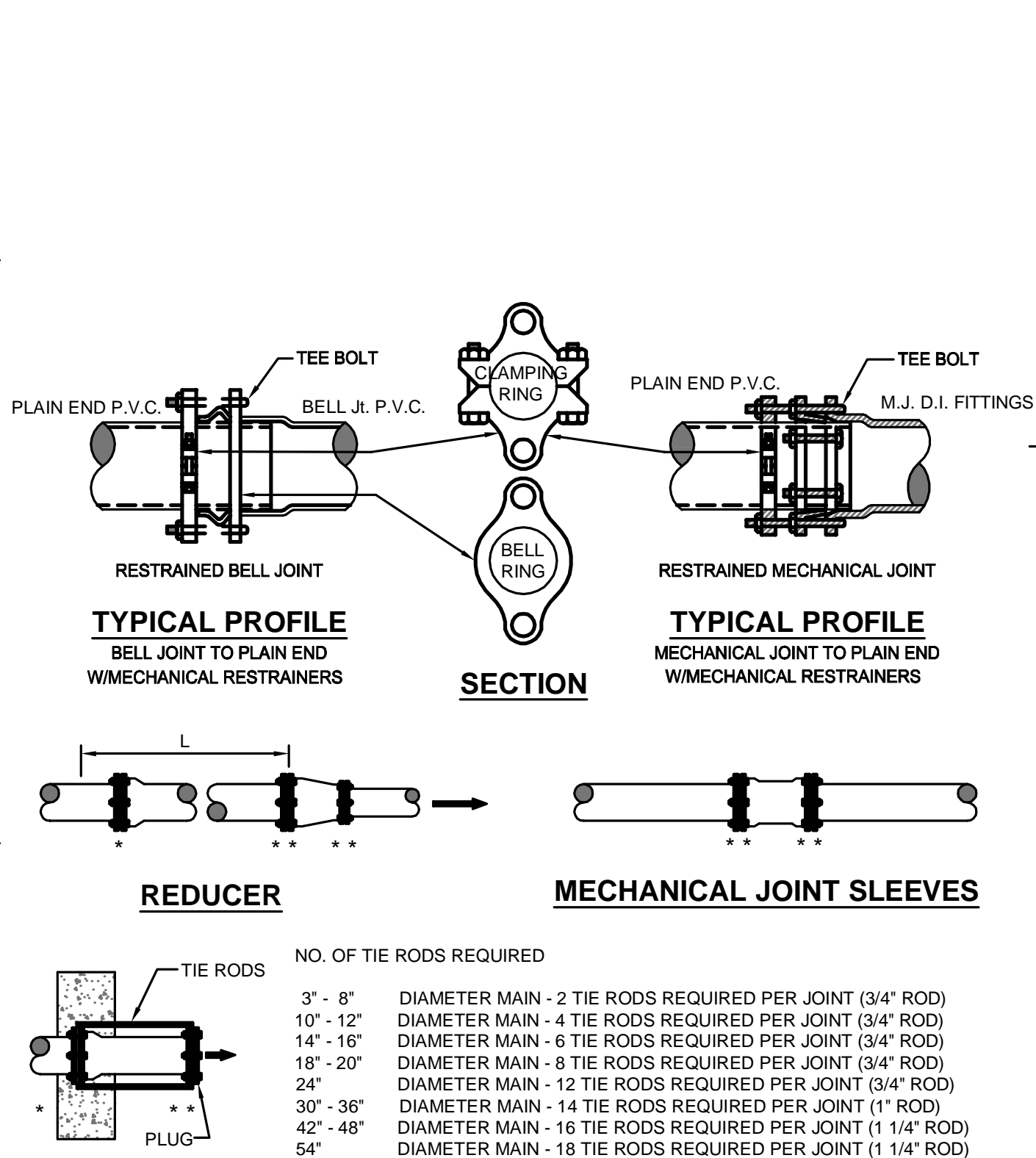
NOTES:

1. THE AIR ASSEMBLY MANHOLE SHALL BE LOCATED OUTSIDE OF THE ROADWAY PAVEMENT AREA (I.E. LOCATED IN NON-TRAFFIC AREAS).
2. THE CONCRETE MANHOLE SHALL INCLUDE A POLYURETHANE SPECIALTY LINER (PER SPEC SECTION 446) TO BE INSTALLED ON THE INTERIOR SURFACES INCLUDING THE RISER SECTION TOP AND THE ADJUSTMENT RINGS. A BITUMINOUS WATERPROOFING MATERIAL SHALL BE PROVIDED ON THE OUTSIDE SURFACES OF THE MANHOLE.
3. FRAME AND COVER SHALL BE JEA STANDARD. THE COVER SHALL HAVE NO GASKET TO ALLOW AIR TO EXIT VAULT (REMOVE GASKET IF NECESSARY FROM THE UNDER SIDE OF STANDARD JEA COVER). THE COVER (WHEN FLIPPED OPEN) MUST CLEAR THE AIR VALVE ASSEMBLY AT ALL TIMES OR A SQUARE TOP WITH ALUMINUM DOOR SHALL BE PROVIDED (NON-TRAFFIC LOCATIONS ONLY).
4. FOR PIPE SIZES 3 INCH AND SMALLER, PROVIDE A STAINLESS STEEL BALL VALVE (2\"/>

AIR VALVE ASSEMBLY INSIDE MANHOLE IN ROW

JANUARY 2020

PLATE S-29B



DEAD - END THRUST COLLAR ANCHOR

TO BE USED INSTEAD OF TOTAL RESTRAINED LENGTH (OPTIONAL) SIZE AS PER THRUST BLOCK DETAIL (W-38). SEE DETAILS W-36 & W-37.

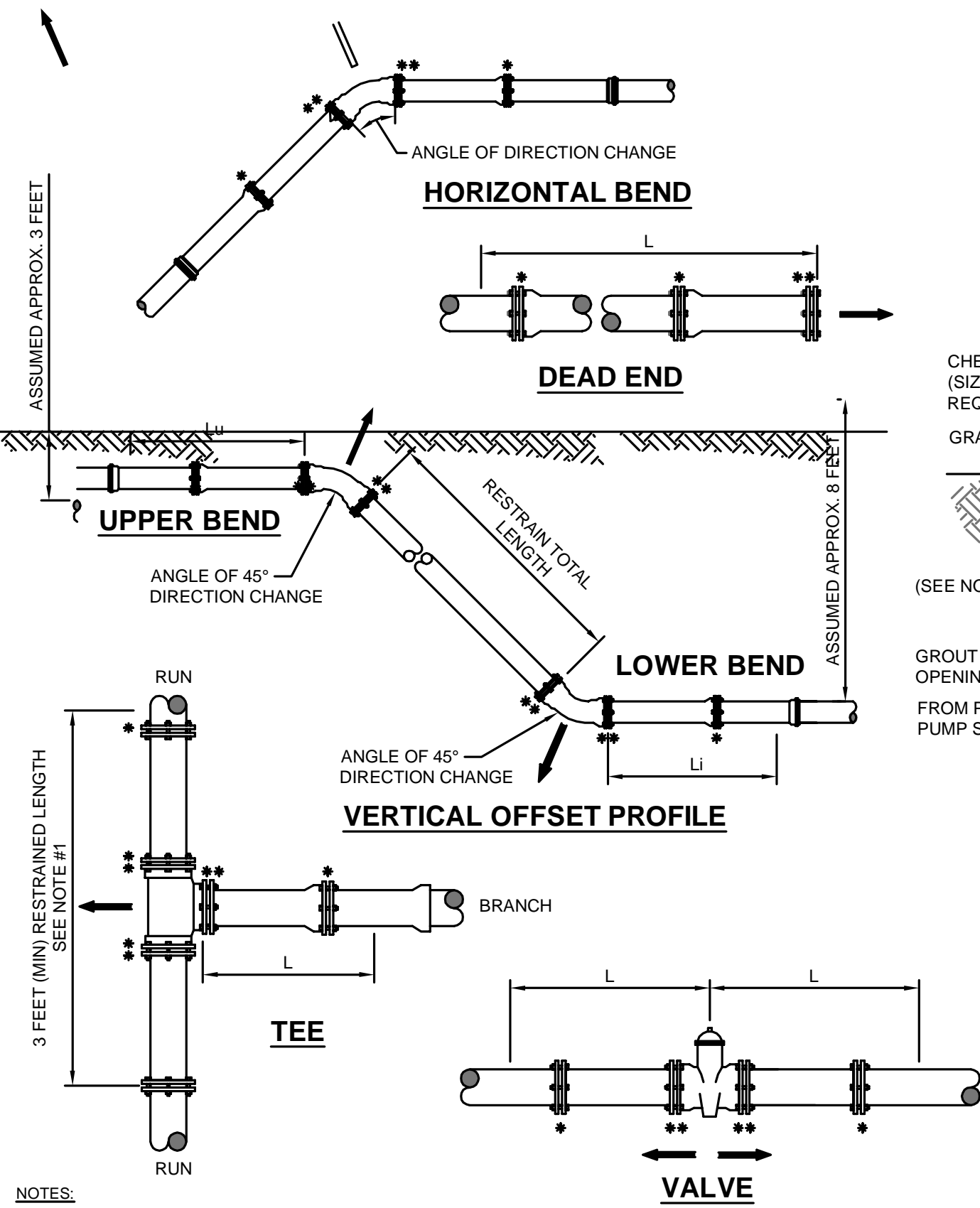
GENERAL NOTE:

1. PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
2. PAY ITEM *** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.
3. → INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I

JANUARY 2020

PLATE S-38C



NOTES:

1. TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 6 FEET (MIN). THE PROJECT ENGINEER CAN INCREASE THIS LENGTH TO REDUCE THE NUMBER OF RESTRAINS REQUIRED. ANY CHANGES TO THIS TABLE MUST BE SUMMITTED TO JEA FOR APPROVAL.
2. PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIS.
3. PAY ITEM ***** DENOTES A RESTRAINT WHICH IS INCLUDED IN THE UNIT PRICE BID FOR FITTING OR VALVE.

MECHANICAL RESTRAINT DETAILS - II

JANUARY 2020

PLATE S-38D

LENGTH (L) TO BE RESTRAINED										(SEE PLATE Nos. 38C & 38D FOR ADDITIONAL DETAILS)									
NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS						VERTICAL OFFSETS 45° BENDS (SEE NOTE 4)		VALVES OR DEAD ENDS L (FT.)	REDUCERS		TEES SEE NOTE 5							
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	UPPER L (FT.)	LOWER L (FT.)				SIZE (IN.)	L (FT.)	SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)					
4	21	9	5	3	17	3	47			6x4	34	4	4	F.O.	4	4	6	10	F.O.
6	30	13	6	3	23	4	66			8x6	36	6	6	10	8	4 < LESS	8	29	F.O.
8	38	16	8	4	30	6	86			8x4	62	10x8	35	10	10	6 < LESS	10	45	F.O.
10	45	19	9	5	36	7	103			10x6	63	12x10	36	12	12	6 < LESS	12	13	F.O.
12	53	22	11	6	43	8	121			12x8	64	16x12	66	16	16	8 < LESS	16	32	F.O.
14	61	26	13	6	50	9	140			16x10	92	20x18	35	20	20	10 < LESS	20	125	F.O.
16	66	28	14	7	55	10	154			20x16	68	24x20	56	24	24	12 < LESS	24	124	F.O.
18	73	30	15	8	60	11	170			24x18	80	30x24	78	30	30	16 < LESS	30	142	F.O.
20	79	33	16	8	66	12	186			30x20	121	36x30	78	36	36	20 < LESS	36	162	F.O.
24	79	33	16	8	77	15	185			42x30	140	48x42	75	48	48	24 < LESS	48	253	F.O.
30	93	39	19	10	97	17	222			48x36	139								
36	106	39	21	11	107	20	257												
42	117	49	24	12	120	24	289												
48	144	53	26	13	133	26	321												

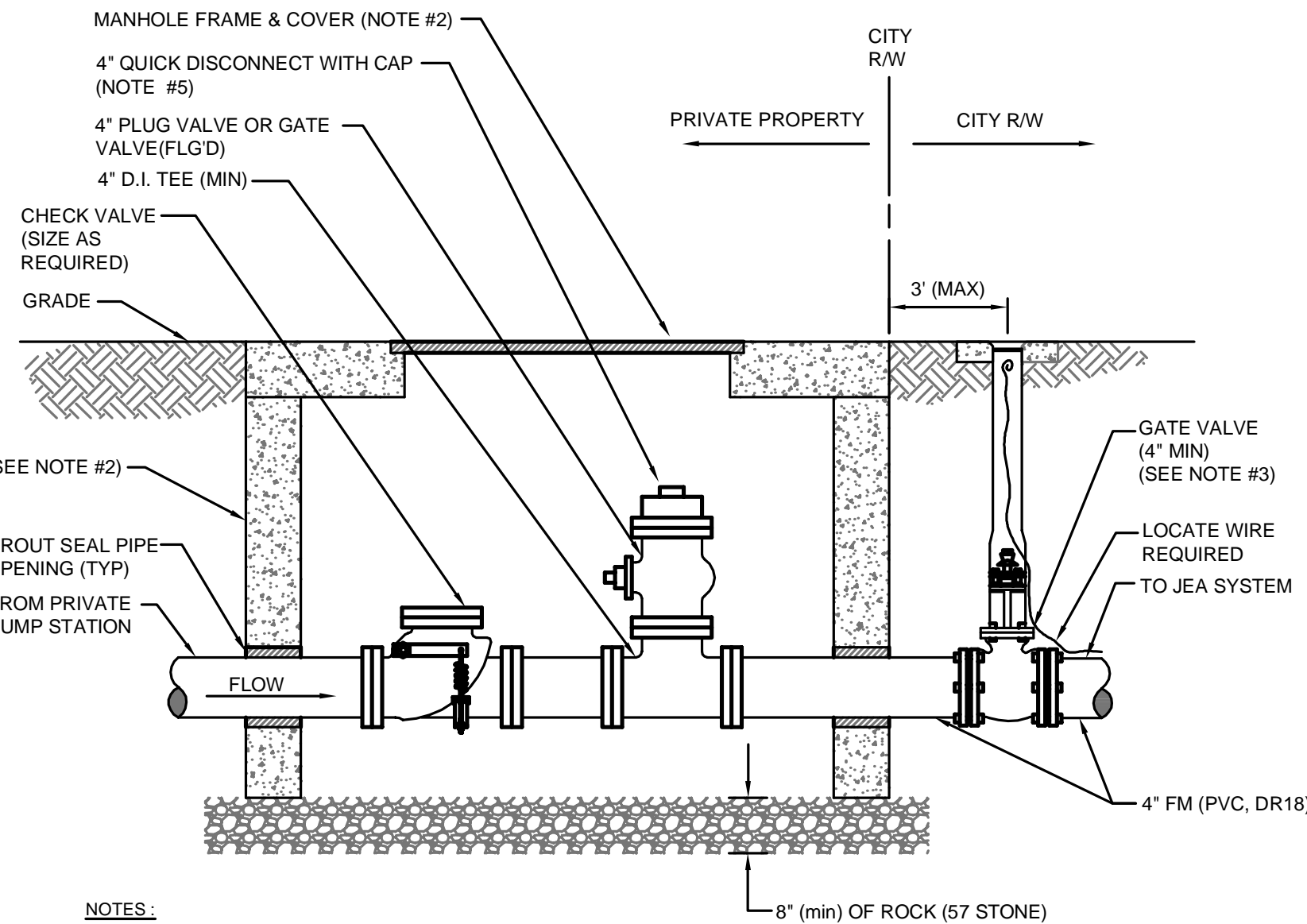
PVC PIPE RESTRAINT NOTES:

1. THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
2. ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=30 INCHES FOR 20\"/>

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2020

PLATE S-38A



NOTES:

1. SEWER PUMP-OUT BOX SHALL BE CONSTRUCTED ON PRIVATE PROPERTY AND LOCATED AT THE R/W LINE. THE PREFERRED CONSTRUCTION LAYOUT IS SHOWN ABOVE.
2. ASSEMBLY TO BE ENCLOSED WITHIN A 48\"/>

PRIVATE PUMP OUT ASSEMBLY

JANUARY 2020

PLATE S-46

England, Thoms & Miller, Inc.
14776 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 642-9890
FAX: (904) 642-9895
CA 000284 LC 000316

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NO EXCEPTION TO THE DESIGN

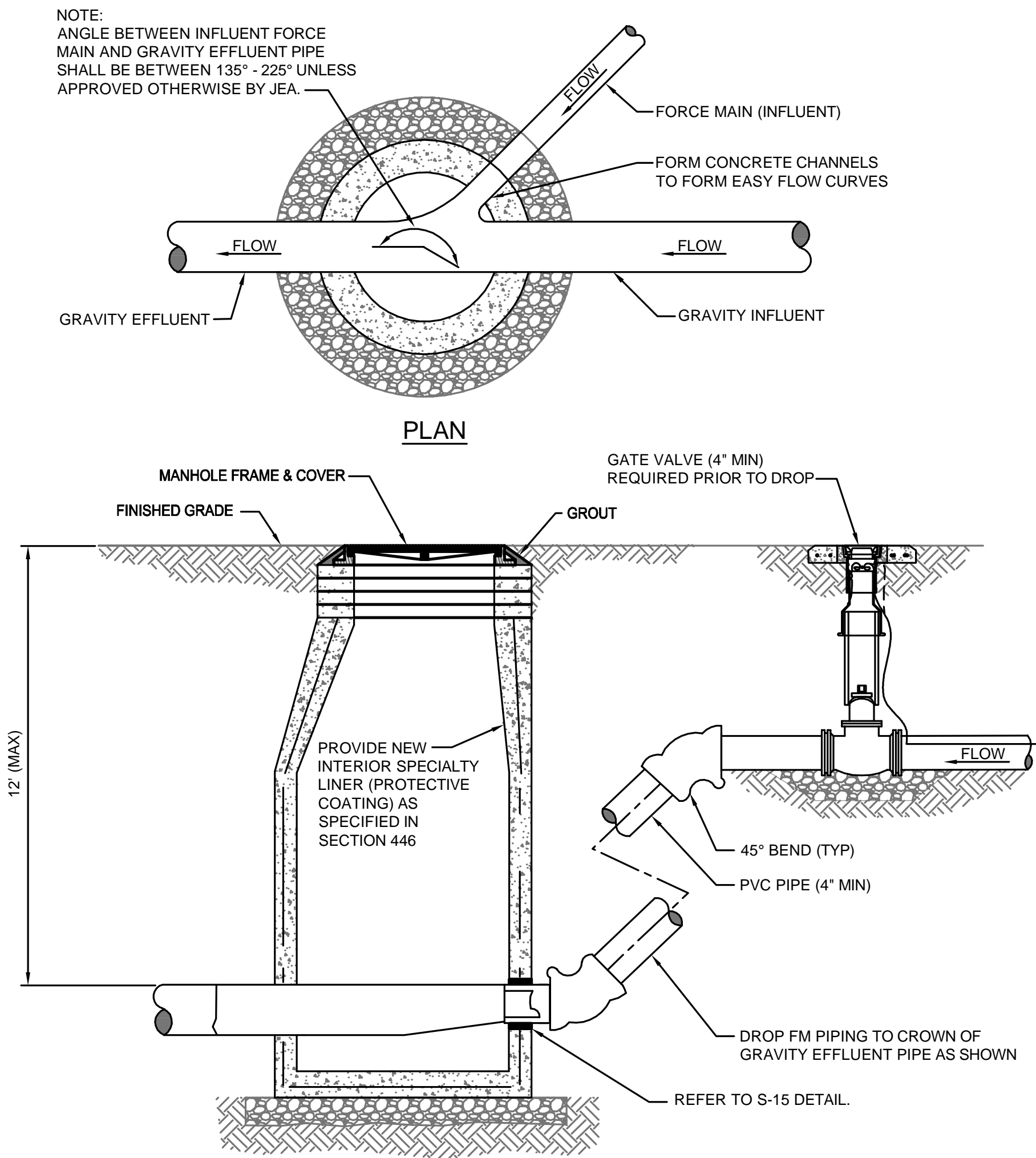
NO.	BY	DATE	REVISIONS
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2	4		
3	3		
4	2		

DESIGNER	ENGINEER	FLORIDA REGISTRATION NO.
LYNDISAY KELLER	77763	

DESIGNER	ENGINEER	FLORIDA REGISTRATION NO.
LYNDISAY KELLER	77763	

PROJ. NO.	17-252-01-001
DATE:	JANUARY 2020
SCALE:	AS NOTED

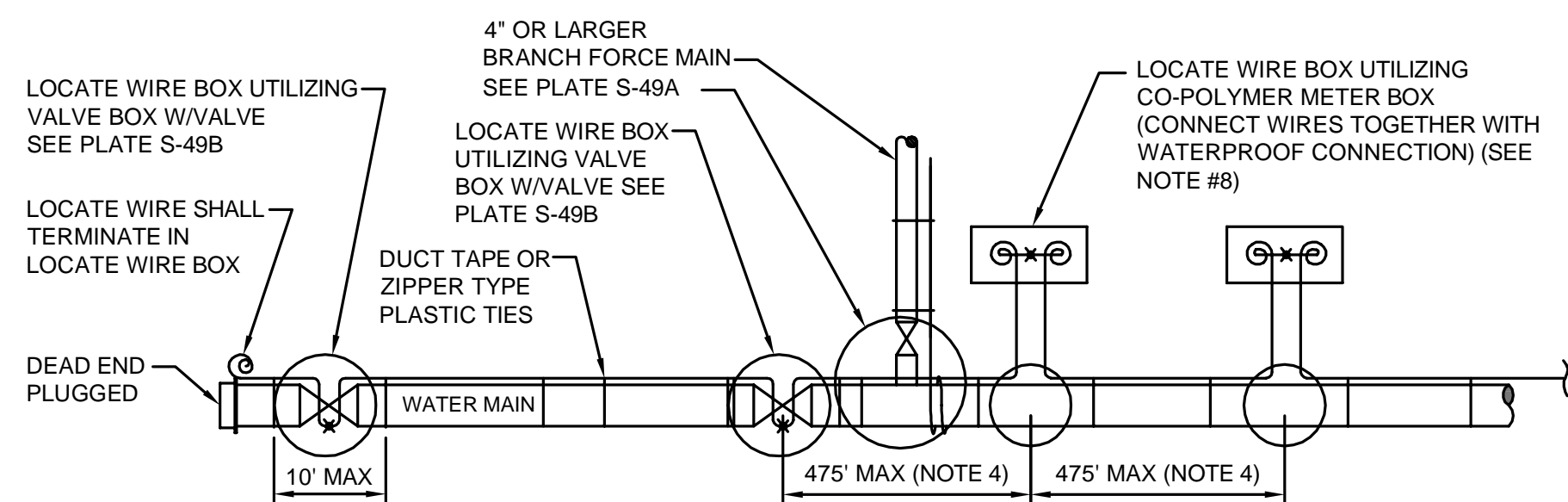
NO. SHEETS	4
SHEET NO.	5
DRAWING NO.	11K



TYPICAL FORCE MAIN CONNECTION TO MANHOLE

JANUARY 2020

PLATE S-18



LOCATE WIRE SYSTEM

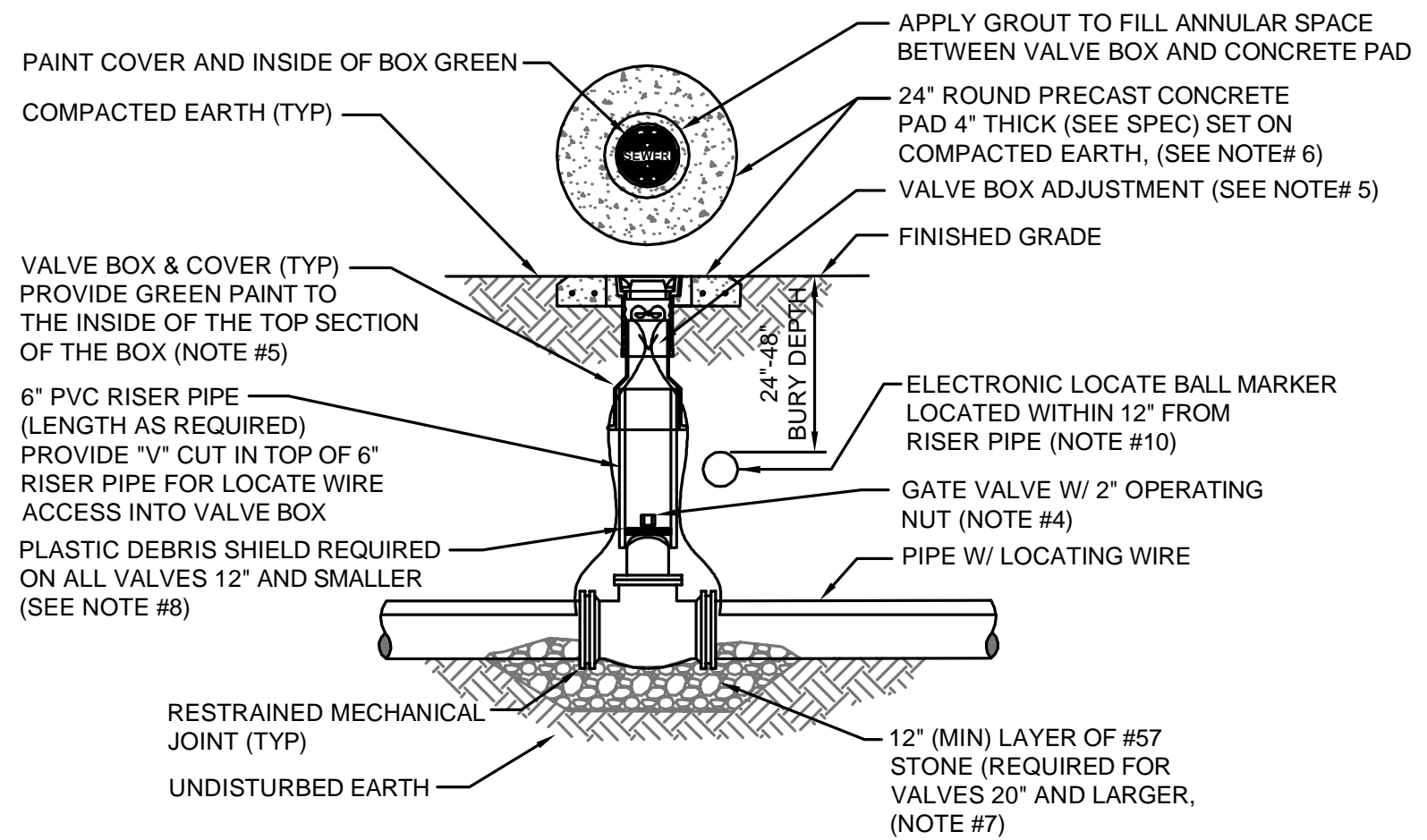
NOTES:

- LOCATING WIRE TO BE INSTALLED IN EITHER THE ONE OR ELEVEN O'CLOCK POSITION ON ALL DUCTILE IRON OR PVC (PRESSURE MAINS). LOCATE WIRE SHALL ALSO BE INSTALLED ON ALL (HDPE) POLY MAIN PIPING (1:00 OR 11:00 POSITION, IF POSSIBLE).
- SECURE LOCATING WIRE TO PVC FORCE MAIN BY USE OF DUCT TAPE OR ZIPPER TYPE PLASTIC TIE STRAPS SPACED AT A MAXIMUM DISTANCE OF TEN (10') AND AT EACH SIDE OF BELL JOINT OR FITTING.
- THE ENTIRE LOCATING SYSTEM SHALL BE SUBJECT TO TESTING TO DETERMINE ITS RELIABILITY. WHERE INSTALLED UNDER PAVEMENT AREAS, TESTING SHALL BE DONE PRIOR TO THE PLACEMENT OF PAVEMENT, UNLESS APPROVED OTHERWISE BY JEA.
- LOCATING WIRE SHALL TERMINATE WITHIN AN ACTIVE VALVE BOX (WITH A VALVE) OR A METER BOX (IF NO VALVE) AT 475' INTERVALS. SEE DETAIL PLATE S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
- LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH .03 INCHES (MINIMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUM) O.D. RATED BREAK LOAD 250LBS., UF RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750.
- ✕ INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
- ⌘ INDICATES A WIRE PIG-TAIL (24" LONG)
- AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
- FOUR LANES OF TRAFFIC (HAVING TWO LANES OF TRAFFIC IN EACH DIRECTION) OR GREATER THE LOCATE WIRE AND VALVE BOX SHALL BE OFF-SET TO THE RIGHT-OF-WAY.

LOCATE WIRE CONSTRUCTION FOR FORCE MAINS

JANUARY 2020

PLATE S-49



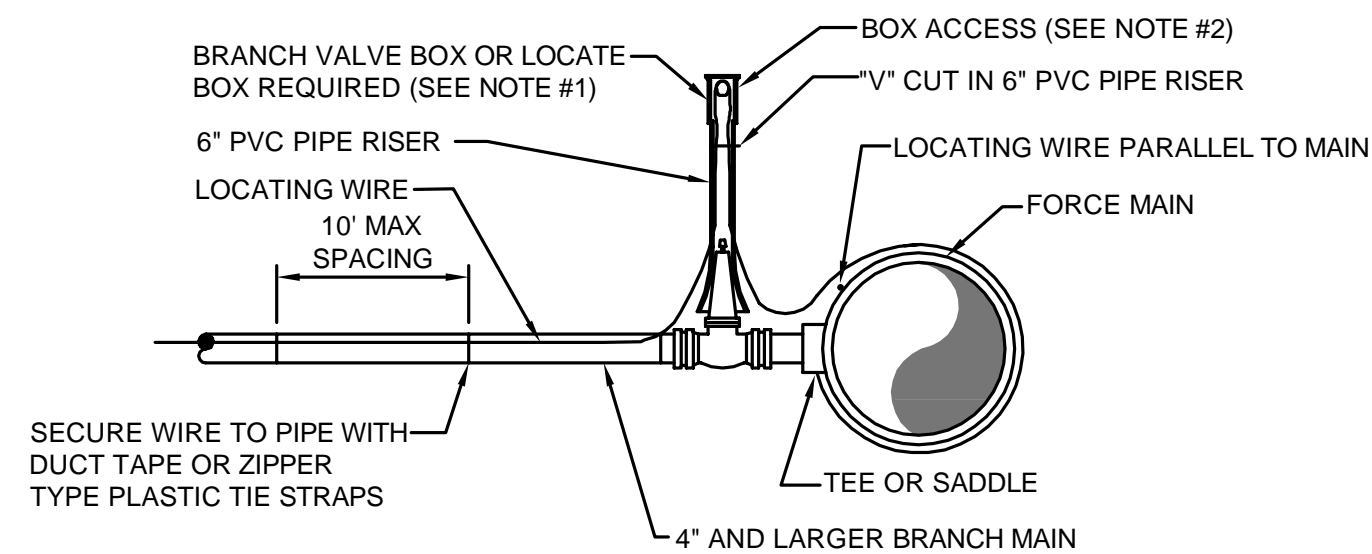
NOTES:

- FOR UNPAVED LOCATIONS, A PRECAST CONCRETE VALVE PAD SHALL BE PROVIDED AND INSTALLED FLUSH WITH GRADE. CONCRETE PAD IS NOT REQUIRED FOR VALVE LOCATED IN THE ROADWAY, UNLESS SHOWN OR NOTED OTHERWISE.
- LOCATING WIRE IS REQUIRED ON ALL PRESSURE PIPING (SEE DETAIL S-49).
- A "V" CUT SHALL BE CARVED IN THE CURB CLOSEST/(ASPHALT IF NO CURB) ADJACENT TO ALL BELOW GRADE VALVES. THE "V" CUT IS TO BE PAINTED GREEN.
- IN PAVED AREAS, INSTALL VALVE AT A DEPTH TO ALLOW A 12" MIN. DISTANCE BETWEEN THE VALVE COVER PLATE AND THE TOP OF THE VALVE OPERATING NUT. OUTSIDE OF PAVED AREAS (GRASS), INSTALL VALVE AT A DEPTH TO ALLOW A 6" MINIMUM DISTANCE BETWEEN THE VALVE COVER AND THE TOP OF THE VALVE OPERATING NUT. OPERATING NUT/STEM EXTENSION SHALL BE PROVIDED (WHERE APPLICABLE) SO THAT THE OPERATING NUT WILL BE NO MORE THAN 30 INCHES BELOW FINISHED GRADE.
- FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS. ROUTE LOCATE WIRES THRU A "V" CUT IN THE TOP OF THE 6" PVC RISER PIPE FOR LOCATE WIRE ACCESS INTO VALVE BOX. THE LOCATE WIRES WITH A 24" LONG PIG-TAIL AT THE TOP SHALL BE CONNECTED TOGETHER WITH A WIRE NUT.
- BRASS IDENTIFICATION TAG INDICATING "SEWER", VALVE SIZE, DIRECTION AND TURNS TO OPEN & VALVE TYPE. PROVIDE A 1/2" HOLE IN BRASS TAG AND ATTACH TAG (TWIST WIRE AROUND TAG) TO THE END OF THE LOCATE WIRE. TAGS ARE NOT REQUIRED ON VALVES INSTALLED ON FIRE HYDRANT BRANCH LINES.
- IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD W/2 - #4 REBAR AROUND PERIMETER, MAY BE USED.
- GRAVEL SHALL BE PROVIDED UNDER ALL VALVES 20" AND LARGER. THE MINIMUM VERTICAL LIMIT OF GRAVEL IS 12" UNDER THE VALVE UP TO 1/2 THE OVERALL HEIGHT OF THE VALVE.
- FOR VALVES 12 INCH AND SMALLER, PROVIDE A WHITE OR BLACK PLASTIC DEBRIS SHIELD WHICH INSTALLS BELOW THE OPERATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE OPERATING NUT AND MINIMIZE INFILTRATION. SHIELD SHALL BE BY AFC, BOXLOK OR APPROVED EQUAL.
- ALL VALVES SHALL BE INSTALLED WITH AN ELECTRIC LOCATE MARKER. MARKER SHALL BE 4" DIA. COLOR CODED BALL MARKER (3M-1404XR FOR SEWER).

SEWER VALVE DETAIL

JANUARY 2020

PLATE S-30



BRANCH FORCE MAIN

(4" AND LARGER SEWER MAIN)

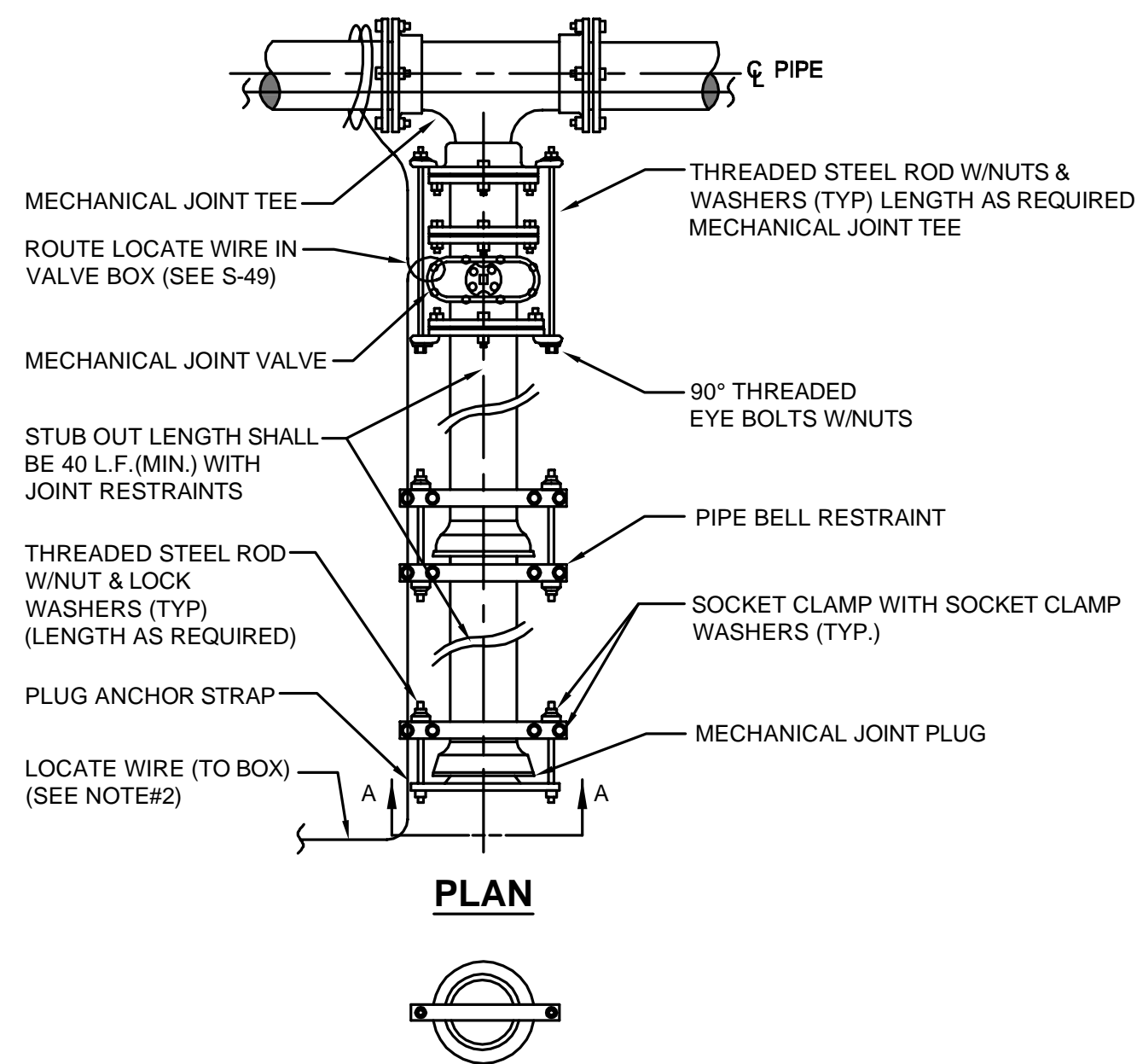
NOTE:

- NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
- LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
- LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
- ⌘ INDICATES A WIRE PIG-TAIL (4' LONG)

LOCATE WIRE FOR BRANCH MAIN

JANUARY 2020

PLATE S-49A



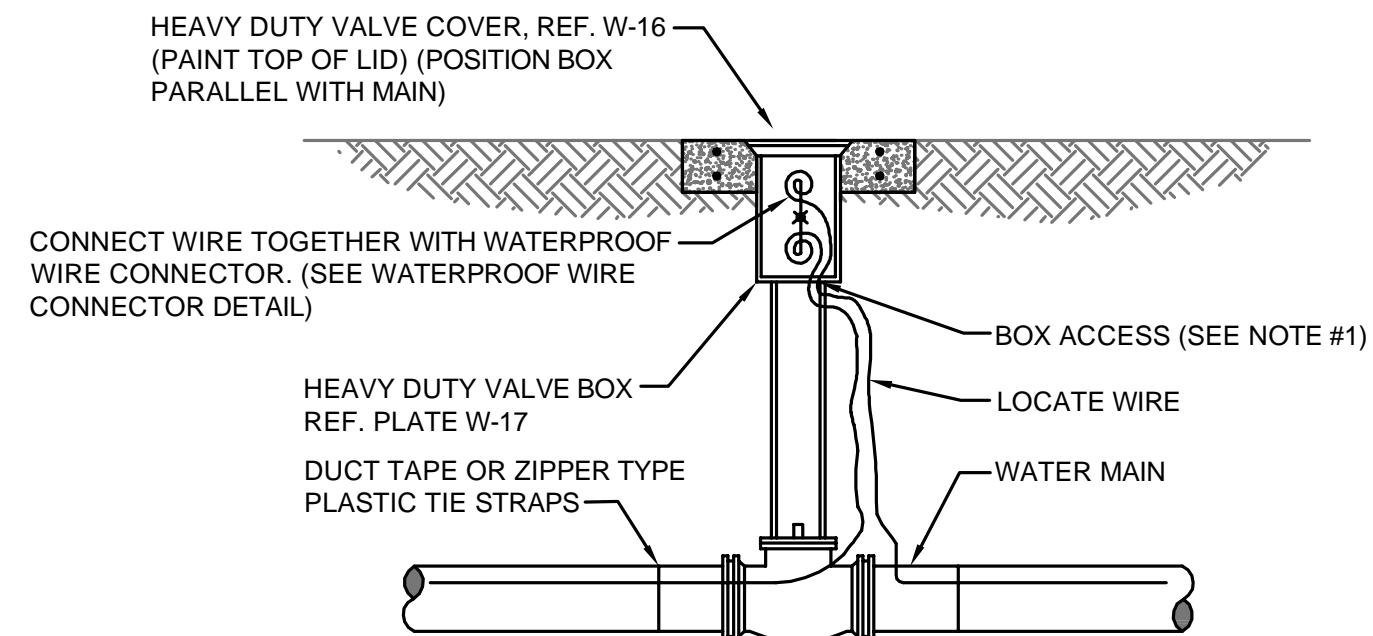
NOTES:

- IN LIEU OF BELL/ROD RESTRAINTS, MECHANICAL JOINT RESTRAINTS MAY BE USED.
- LOCATING WIRE REQUIRED, UTILIZING A LOCATE WIRE BOX INSTALLED AT PLUG LOCATION.
- NUMBER OF TIE RODS REQUIRED IS AS FOLLOWS:
3" - 8" DIAMETER MAIN - 2 TIE RODS REQUIRED PER JOINT (3/4" ROD)
10" - 12" DIAMETER MAIN - 4 TIE RODS REQUIRED PER JOINT (3/4" ROD)
14" - 16" DIAMETER MAIN - 6 TIE RODS REQUIRED PER JOINT (3/4" ROD)
18" - 20" DIAMETER MAIN - 8 TIE RODS REQUIRED PER JOINT (3/4" ROD)
24" DIAMETER MAIN - 12 TIE RODS REQUIRED PER JOINT (3/4" ROD)
30" - 36" DIAMETER MAIN - 14 TIE RODS REQUIRED PER JOINT (1" ROD)
42" - 48" DIAMETER MAIN - 16 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
54" DIAMETER MAIN - 18 TIE RODS REQUIRED PER JOINT (1 1/4" ROD)
- THE LOCATION OF THE DEAD END PLUG SHALL NOT BE UNDER PAVEMENT, IF POSSIBLE. THE STUB OUT SHALL EXTEND BEYOND THE INTERSECTION AREAS OR ROAD CROSSING BY 10 FEET (MIN.) WHERE POSSIBLE.

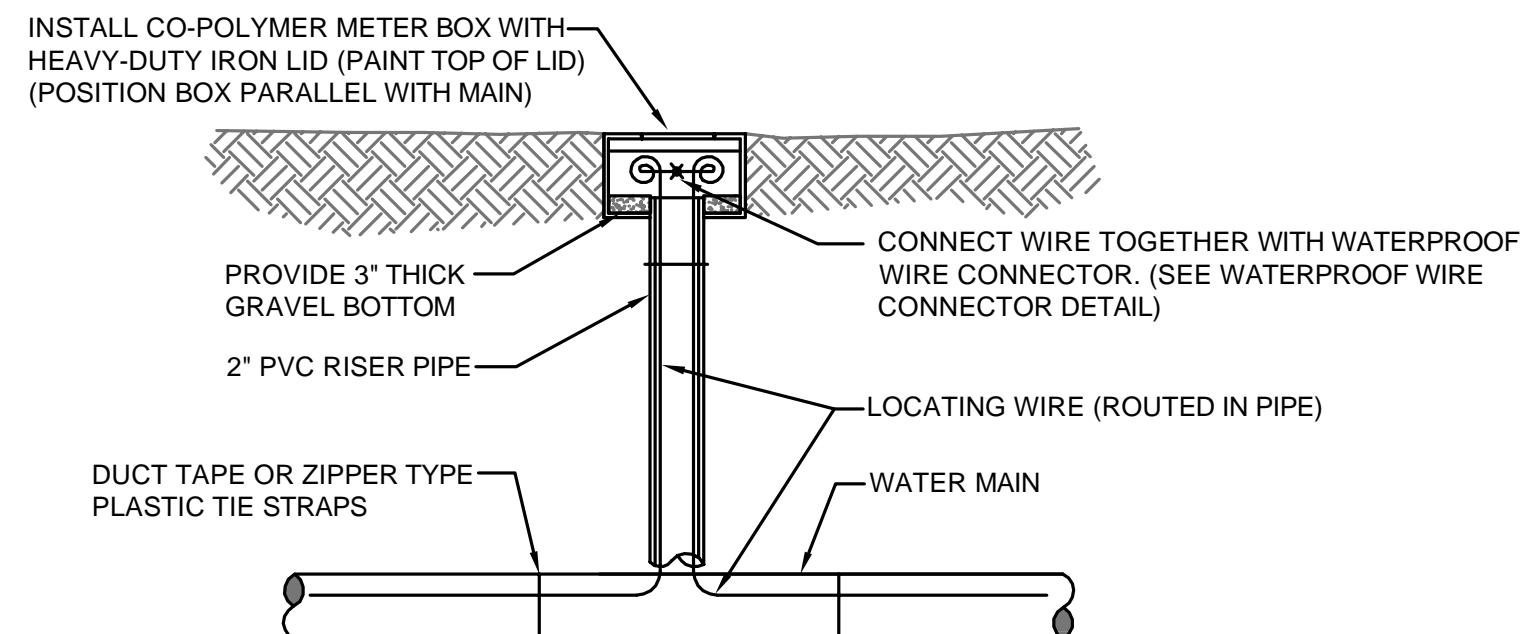
PLUGGED DEAD END USING MECHANICAL RESTRAINTS

JANUARY 2020

PLATE S-44



LOCATE WIRE BOX UTILIZING VALVE BOX



LOCATE WIRE BOX UTILIZING METER BOX

LOCATE WIRE BOX

JANUARY 2020

PLATE S-49B

England, Thoms & Miller, Inc.
14775 Old St. Augustine Road
Jacksonville, FL 32218
TEL: (904) 442-8880
FAX: (904) 442-8885
E-MAIL: info@etm-inc.com
CA 0002894 LC 0000316

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NO.	BY	DATE	REVISIONS
1			
2			
3			
4			
5			
6			

DESIGNER: LYNDSEY KELLER
DRAWN BY: LYNDSEY KELLER
DATE: 1/1/2020
CHECKED BY: LYNDSEY KELLER
DATE: 1/1/2020
FLORIDA REGISTRATION NO. 77763

JEA STANDARD
SANITARY SEWER DETAILS
BAPTIST WEST NASSAU MEDICAL VILLAGE

PROJ. NO. 17-252-01-001
DATE: JANUARY 2020
SCALE: AS NOTED

NO. SHEETS 5
SHEET NO. 5
DRAWING NO. 111

7-252-01 - SR 200 (17-252-01-001) (Landscape) Design Plots (JEA_Wastewater_Details_Master_01-2020 17-252-01-001.dwg PLOTTED: Apr. 16, 21 - 9:39 AM, BY: CAD Test

PVC PIPE RESTRAINT NOTES:

- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- ASSUMPTIONS: PVC PIPE, SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=36 INCHES.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 3 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE. THE PROJECT ENGINEER CAN INCREASE THIS DISTANCE TO REDUCE THE RESTRAINS REQUIRED ON THE BRANCH SIDE. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.
- HDPE TO PVC TRANSITIONS: THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).
- THE INSTALLATION OF BELL HARNESS RESTRAINTS AT PVC JOINTS (DR-18 & 25 PIPE) SHALL BE COMPLETED PER THE MANUFACTURERS RECOMMENDATION, WHICH INCLUDES NOT OVER TIGHTENING THE PARALLEL RODS/NUTS. THESE NUTS SHOULD ONLY BE SNUG TIGHT. THE HOME MARKS ON THE PIPE SHOULD ALWAYS BE VISIBLE AFTER THE RESTRAINT IS INSTALLED. OVERHOMING THE JOINT MAY CAUSE A FAILURE AT THE BELL RESULTING IN A SERVICE OUTAGE.

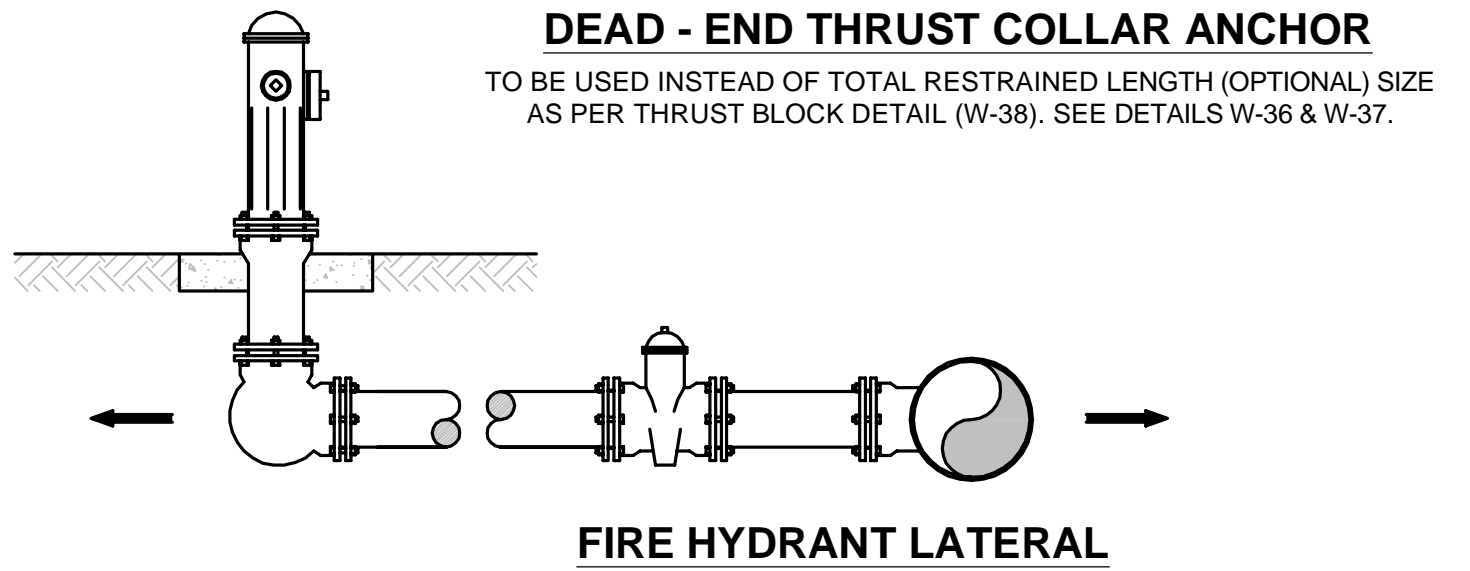
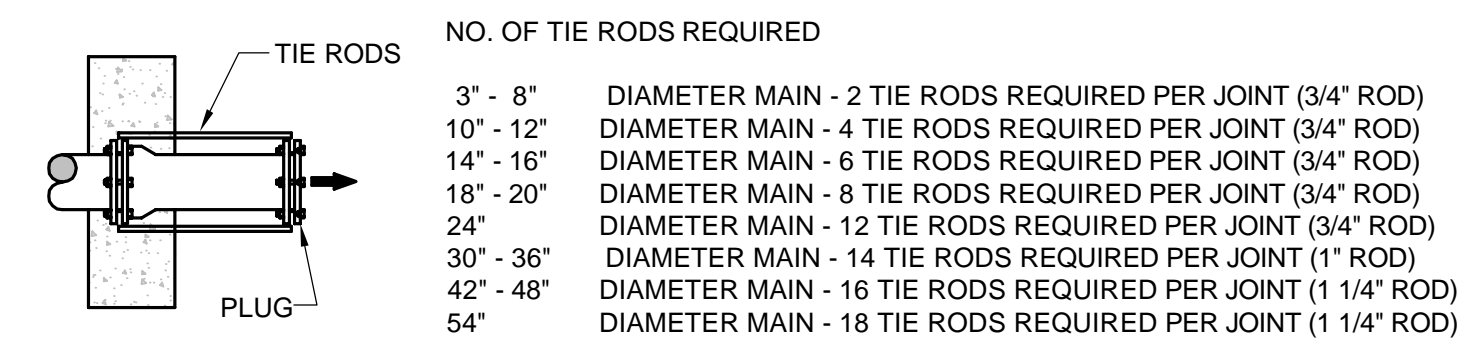
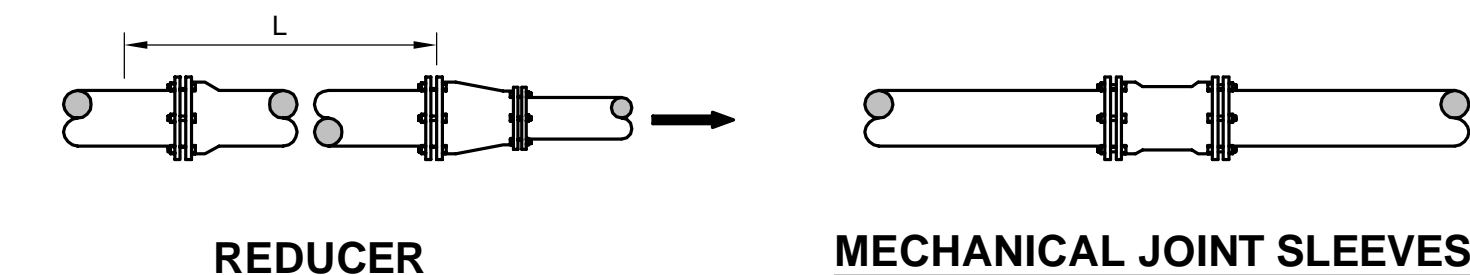
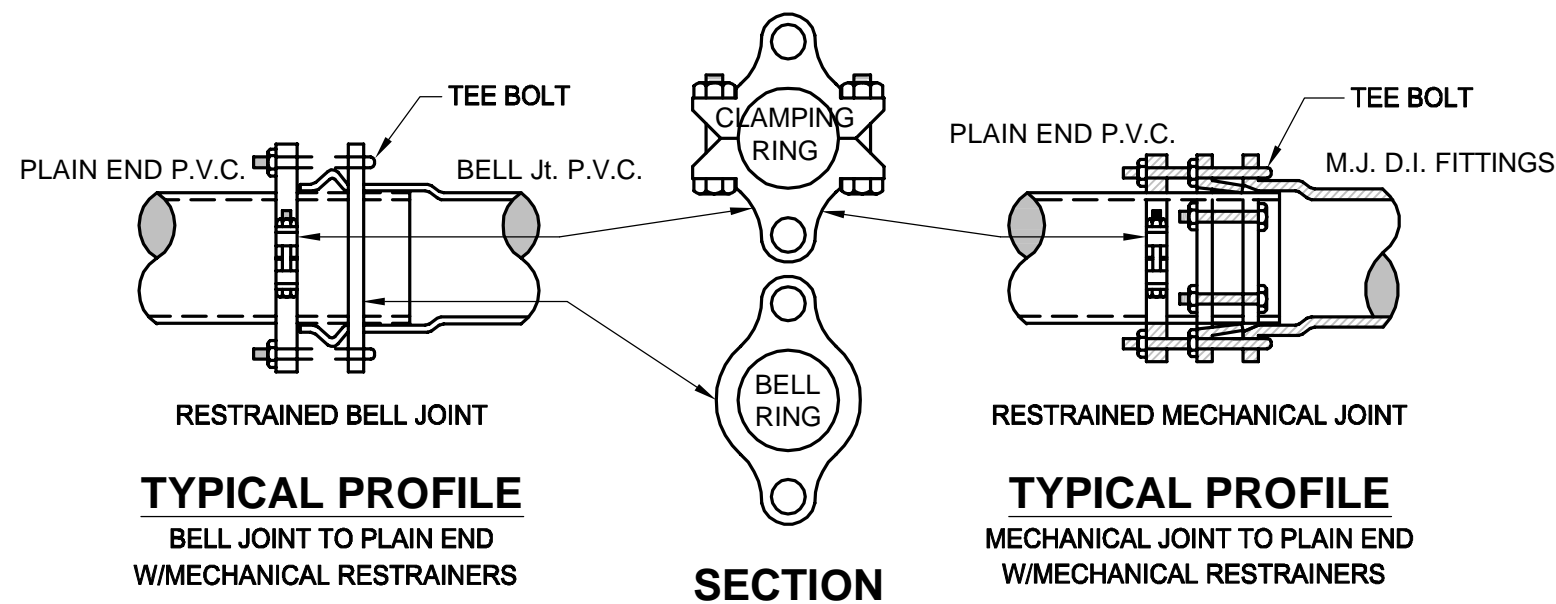
(SEE PLATE Nos. 31C & 31D FOR ADDITIONAL DETAILS)

RUN SIZE (IN.)	P.V.C. PIPE TEE - L (FT.) SEE NOTE 5. FOR													
	BRANCH SIZE (IN.)													
4	29													
6	23	44												
8	18	41	61											
10	12	37	58	75										
12	6	33	55	73	91									
14	1	29	52	71	89	107								
16	1	24	48	68	86	105	119							
18	1	19	45	65	84	103	118	133						
20	1	15	41	62	82	101	116	132	147					
24	1	4	34	56	76	97	112	128	144	173				
30	1	1	21	46	68	89	106	123	139	169	209			
36	1	1	8	35	59	82	99	117	134	165	206	244		
42	1	1	1	23	49	73	92	111	128	160	202	241	276	
48	1	1	1	10	39	64	84	104	122	155	198	238	273	307

LARGE END (IN.)	P.V.C. PIPE REDUCERS - L (FT.) SEE NOTE 5. FOR													
	SMALL END (IN.)													
6	29													
8	52	31												
10	71	53	29											
12	89	74	54	30										
14	105	95	78	57	31									
16	121	111	96	78	56	30								
18	136	127	114	98	79	56	30							
20	151	143	131	117	100	79	56	30						
24	179	172	163	151	137	120	101	80	56					
30	217	211	204	195	184	171	156	140	121	78				
36	253	249	243	235	226	216	204	190	175	141	78			
42	285	282	277	271	263	255	245	233	221	192	140	75		
48	318	315	310	305	299	292	283	273	263	238	194	139	75	

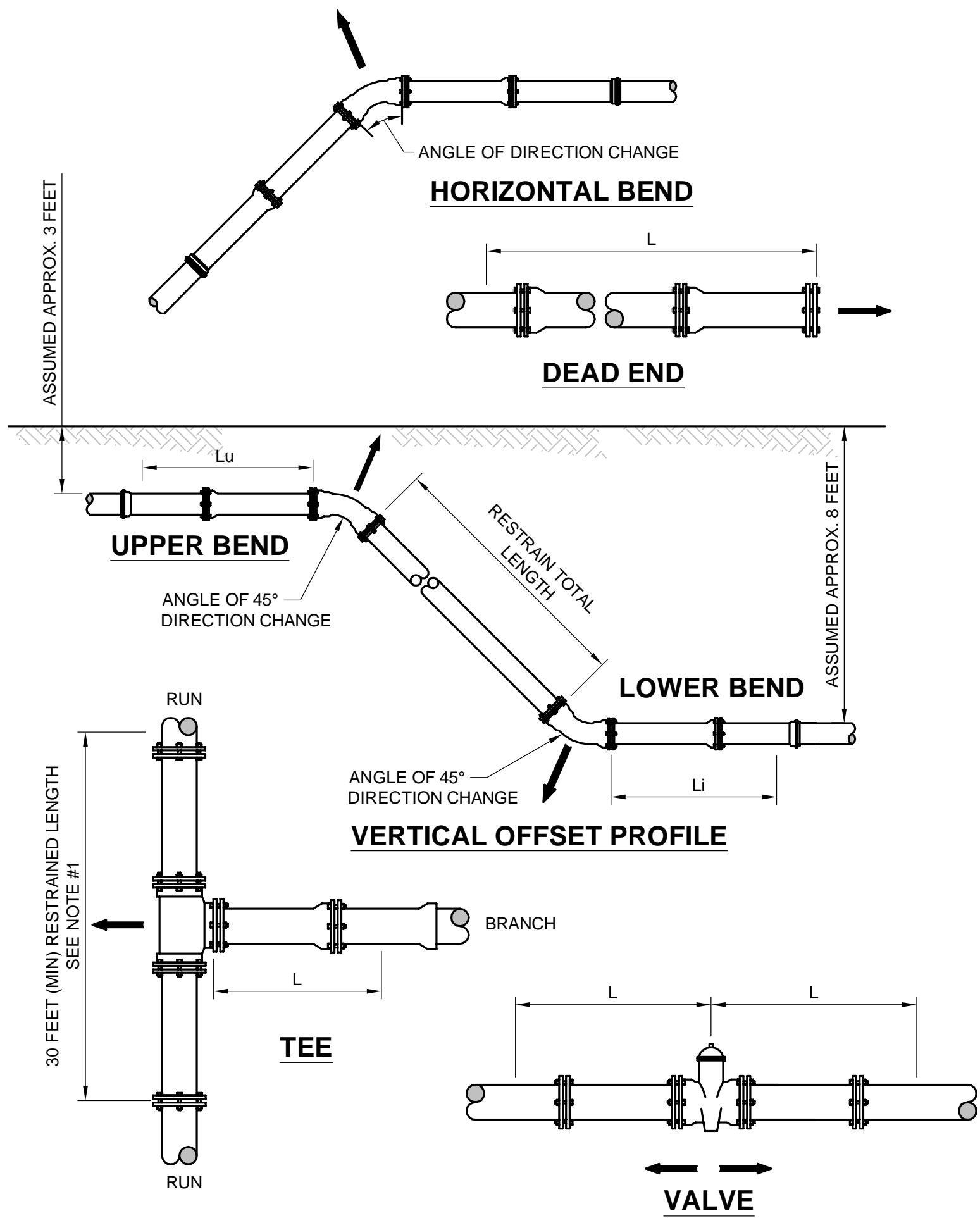
NOMINAL PIPE SIZE (IN.)	HORIZONTAL BENDS				VERTICAL BENDS			VALVES OR DEAD ENDS L (FT.)
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	
4	18	8	4	2	17	8	4	39
6	25	11	5	3	23	11	6	55
8	33	14	7	4	30	15	8	72
10	39	16	8	4	36	18	9	87
12	45	19	9	5	43	21	11	102
14	52	22	11	6	50	24	12	119
16	57	24	12	6	55	27	13	131
18	63	26	13	7	60	29	15	145
20	68	29	14	7	66	32	16	159
24	79	33	16	8	77	37	19	185
30	93	39	19	10	92	45	22	222
36	106	44	21	11	107	52	26	257
42	117	49	24	12	120	58	29	289
48	128	53	26	13	133	64	32	321

PVC PIPE RESTRAINT JOINT SCHEDULE



- GENERAL NOTE:
- INDICATES DIRECTION OF THRUST FORCE.

MECHANICAL RESTRAINT DETAILS - I



- NOTES:
- TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 30 FEET (MIN.).

MECHANICAL RESTRAINT DETAILS - II

(SEE PLATE Nos. 31C & 31D FOR ADDITIONAL DETAILS)

RUN SIZE (IN.)	D.I. PIPE TEE - L (FT.) SEE NOTE 5. FOR													
	BRANCH SIZE (IN.)													
4	4	6	8	10	12	14	16	18	20	24	30	36	42	
6	15	29												
8	12	26	39											
10	8	24	37	48										
12	4	21	35	47	58									
14	1	18	33	45	57	67								
16	1	16	31	43	55	66	76							
18	1	13	29	42	54	64	75	85						
20	1	10	27	40	52	63	74	84	94					
24	1	3	22	36	49	60	71	82	92	110				
30	1	1	14	29	44	56	68	78	89	108	133			
36	1	1	5	23	38	51	63	74	85	105	131	155		
42	1	1	1	15	32	46	59	70	82	102	129	153	175	
48	1	1	1	7	25	40	54	66	78	99	126	151	173	194

NOMINAL PIPE SIZE (IN.)	D.I. PIPE FITTING, PLUGS & VALVES - L (FT.)							VALVES OR DEAD ENDS L (FT.)
	90° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	45° BENDS L (FT.)	22.5° BENDS L (FT.)	11.25° BENDS L (FT.)	
4	15	6	3	2	11	5	3	25
6	20	9	4	2	15	7	4	36
8	26	11	6	3	20	10	5	47
10	31	13	7	4	23	11	6	56
12	36	15	8	4	27	13	7	65
14	41	17	9	4	31	15	8	74
16	46	19	10	5	35	17	9	84
18	50	21	10	5	39	19	10	92
20	55	23	11	6	42	21	10	101
24	63	27	13	7	49	24	12	118
30	75	31	15	8	59	28	14	141
36	86	36	17	9	68	33	17	163
42	95	40	19	10	76	37	18	183
48	104	43	21	11	84	41	20	203

DUCTILE IRON PIPE RESTRAINT NOTES:

- THIS SCHEDULE SHALL BE UTILIZED ON ALL WATER, SEWER FORCE MAIN OR RECLAIMED WATER SYSTEMS. ALL FITTINGS SHALL BE RESTRAINED TO LENGTHS INDICATED ON THE ABOVE SCHEDULE, AT A MINIMUM.
- ASSUMPTIONS: DUCTILE IRON PIPE (WITHOUT POLY WRAP), SAFETY FACTOR=1.5, TEST PRESSURE=150PSI, SOIL=GM OR SM, TRENCH TYPE 3, DEPTH OF COVER=36 INCHES. FOR D.I.P. W/POLY WRAP, USE RESTRAINT JOINT SCHEDULE FOR PVC PIPE.
- BENDS AND VALVES: SHALL BE RESTRAINED ON EACH SIDE OF FITTING.
- VERTICAL OFFSETS: ARE APPROX. 3 FEET COVER ON TOP AND APPROX. 8 FEET COVER ON BOTTOM. PER THE DETAILS, Lu IS THE RESTRAINED LENGTH FOR THE UPPER (TOP) LEVEL. Li IS THE RESTRAINED LENGTH FOR THE LOWER (DEEPER) LEVEL. ASSUME 45 DEGREE BENDS.
- TEES: TOTAL LENGTH BETWEEN FIRST JOINTS OR RESTRAINED LENGTH ON EITHER SIDE OF TEE (RUN) SHALL BE A TOTAL DISTANCE OF 3 FEET (MIN). SEE SCHEDULE ABOVE FOR RESTRAINT LENGTH ON TEE "BRANCH" LINE. THE PROJECT ENGINEER CAN INCREASE THIS DISTANCE TO REDUCE THE RESTRAINS REQUIRED ON THE BRANCH SIDE. ANY CHANGES MUST BE APPROVED BY THE ENGINEER.
- HDPE TO D.I.P. TRANSITIONS: THE D.I.P. PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN).

DUCTILE IRON PIPE RESTRAINT JOINT SCHEDULE

FIRE MAIN RESTRAINT SCHEDULE
BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

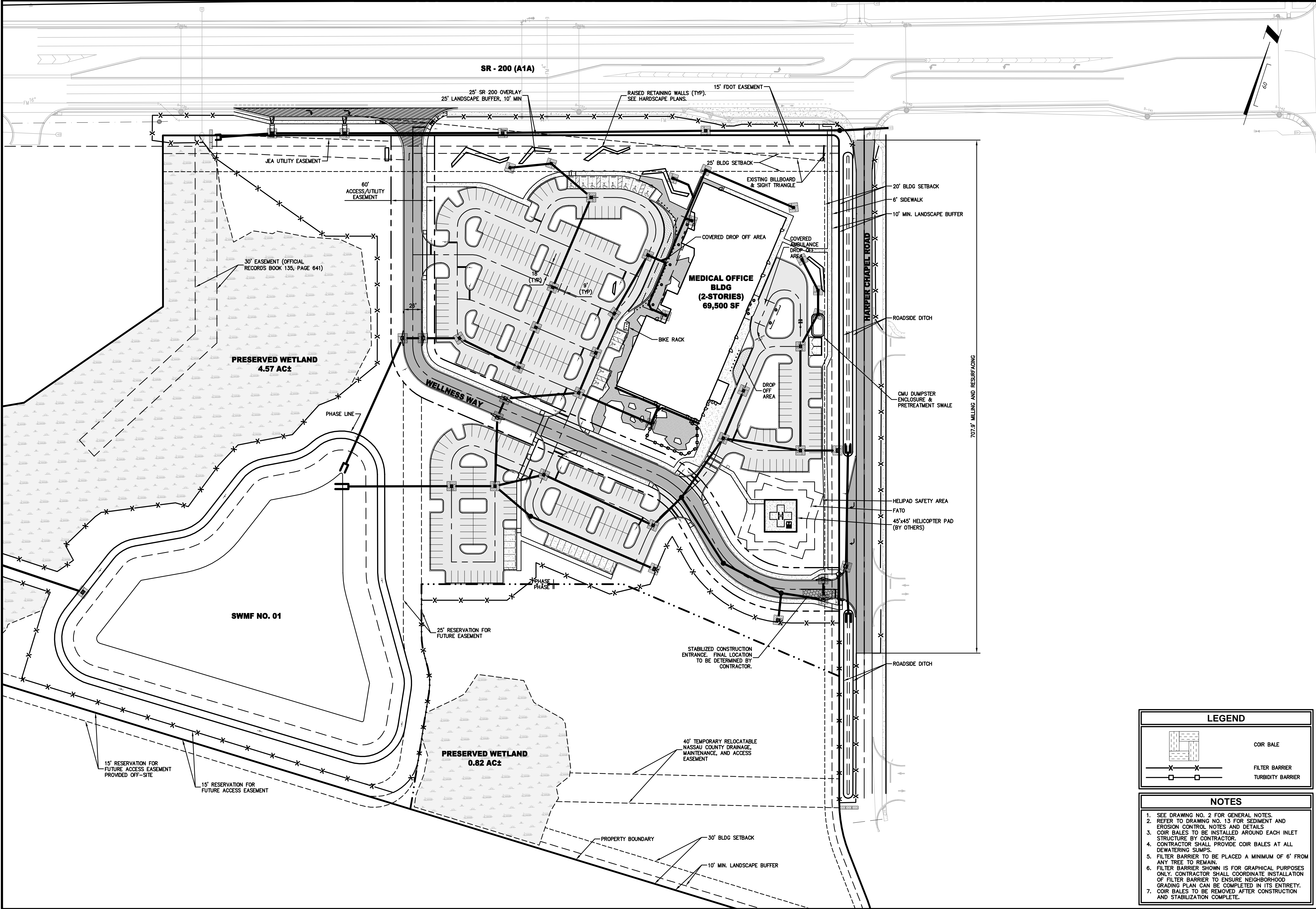
DRAWING NUMBER
12

ETM
England-Thins & Miller, Inc.
1000 S. Highway 1
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 646-9485
REG - 2584 LC - 0000316
VISION • EXPERIENCE • RESULTS

ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

PLANS PREPARED UNDER THE
DIRECTION OF:

REVISIONS:



LEGEND	
	COIR BALE
	FILTER BARRIER
	TURBIDITY BARRIER

- NOTES**
- SEE DRAWING NO. 2 FOR GENERAL NOTES.
 - REFER TO DRAWING NO. 13 FOR SEDIMENT AND EROSION CONTROL NOTES AND DETAILS.
 - COIR BALES TO BE INSTALLED AROUND EACH INLET STRUCTURE BY CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE COIR BALES AT ALL DEWATERING SUMPS.
 - FILTER BARRIER TO BE PLACED A MINIMUM OF 6' FROM ANY TREE TO REMAIN.
 - FILTER BARRIER SHOWN IS FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR SHALL COORDINATE INSTALLATION OF FILTER BARRIER TO ENSURE NEIGHBORHOOD GRADING PLAN CAN BE COMPLETED IN ITS ENTIRETY.
 - COIR BALES TO BE REMOVED AFTER CONSTRUCTION AND STABILIZATION COMPLETE.

SEDIMENT AND EROSION CONTROL PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

13

ETM

England-Thins & Miller, Inc.

1775 Old St. Augustine Road
Jacksonville, FL 32228

TEL: (904) 642-8890
FAX: (904) 646-3485
REG - 2584 LC - 0000316

VISION • EXPERIENCE • RESULTS

ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

REVISIONS:

PLANS PREPARED UNDER THE DIRECTION OF:

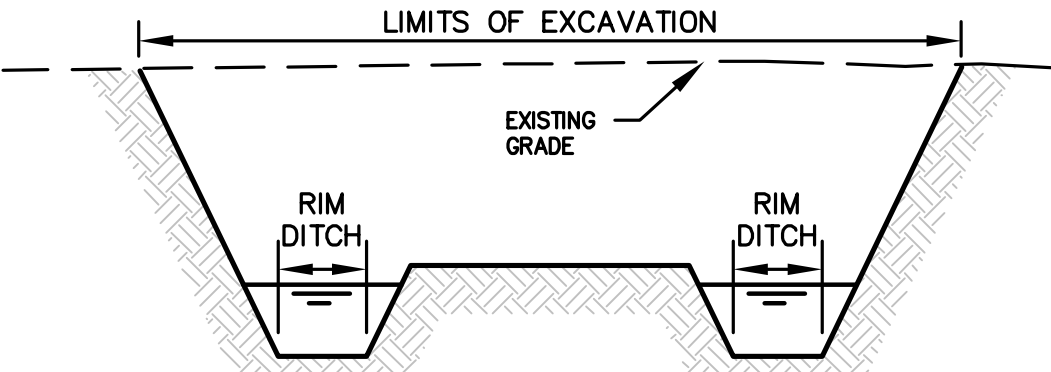
LYNDSEY KELLER
P.E. NUMBER: 77763

SEDIMENT AND EROSION CONTROL NOTES

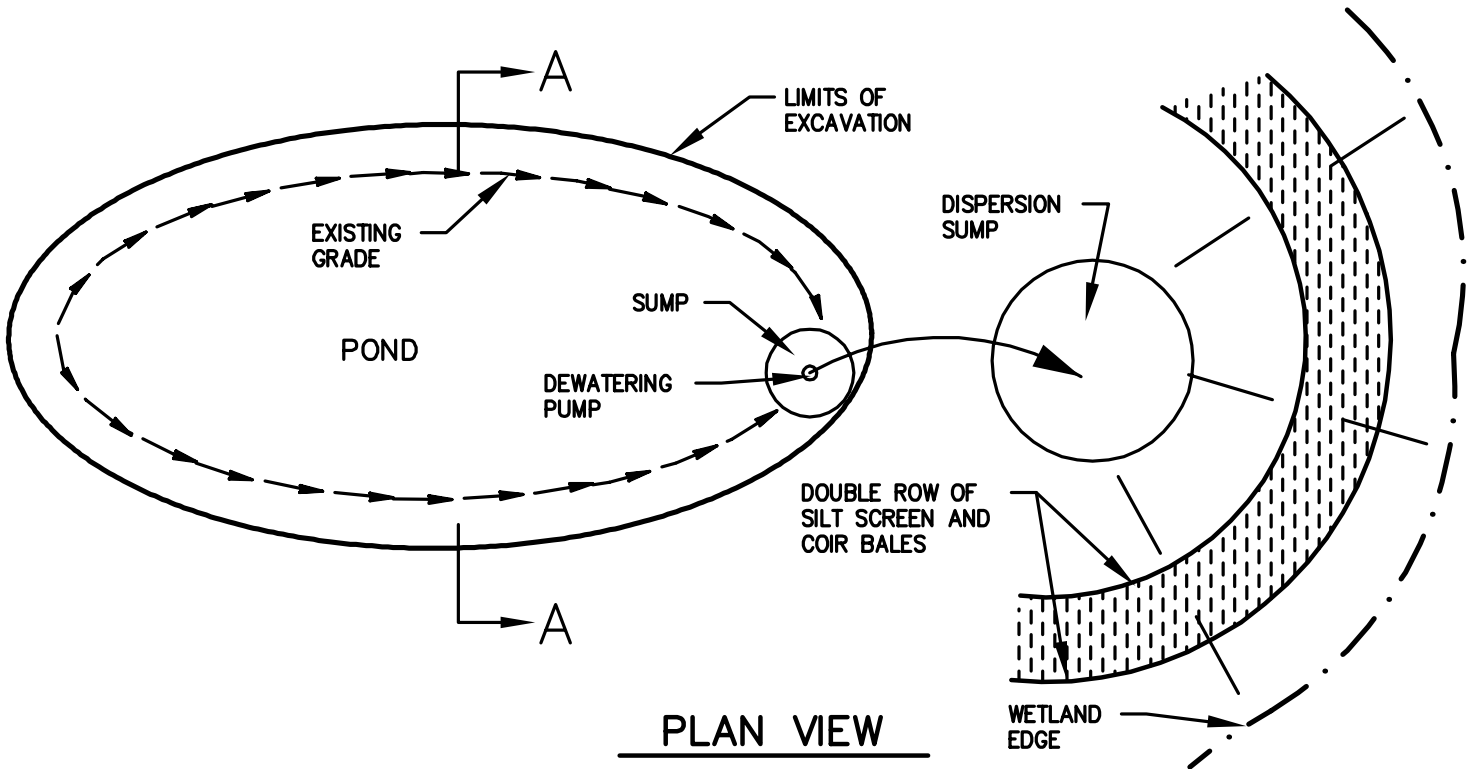
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE IF NOT REUSABLE ON-SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AND SWALES AT COMPLETION OF CONSTRUCTION.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
5. WIRE MESH SHALL BE LAID OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED. IF MORE THAN ONE STRIP OF MESH IS REQUIRED, THE STRIPS SHALL BE OVERLAPPED.
6. FOOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED ON SEDIMENT FILTER DETAIL (SEE DETAIL THIS SHEET). THE DEPTH OF STONE SHALL BE AT LEAST 12 INCHES OVER THE ENTIRE INLET OPENING. THE STONE SHALL EXTEND BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES.
7. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONES MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.
8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 4 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.
11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.
12. LOOSE COIR SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.
13. COIR BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
14. CLOSE ATTENTION SHALL BE GIVEN TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
16. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. IT MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
17. ANY SEDIMENT DEPOSITS REMAINING IN PLACE, AFTER THE COIR BALE OR FILTER BARRIERS, AND OR SILT FENCES ARE NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
18. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
19. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED IMMEDIATELY.
20. STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS REQUIRED.
21. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
22. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICES AS OUTLINED IN THE PLANS, SPECIFICATIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT RULES AND REGULATIONS.
23. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION (F.D.E.P.) CHAPTER 6.
24. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION. SEE DETAILS (THIS SHEET) FOR TYPICAL CONSTRUCTION.
25. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.
26. ANY DISCHARGE FROM DEWATERING ACTIVITY SHALL BE FILTERED AND CONVEYED TO THE OUTFALL IN A MANNER WHICH PREVENTS EROSION AND TRANSPORTATION OF SUSPENDED SOLIDS TO THE RECEIVING OUTFALL.
27. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.
28. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED AND MULCHED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR SHALL USE ADDITIONAL MEASURES TO STABILIZE DISTURBED AREAS THROUGH COMPACTION, SILT SCREENS, COIR BALES, AND GRASSING. ALL FILL SLOPES 3:1 OR STEEPER TO RECEIVE STAKED SOLID SOD.
29. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL SHALL REMAIN IN PLACE UNTIL AFTER COMPLETION OF CONSTRUCTION, AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.
30. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT MEASURES REQUIRED FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL APPLICABLE RULES, REGULATIONS AND WATER QUALITY GUIDELINES AND MAY NEED TO INSTALL ADDITIONAL CONTROLS.
31. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL WATER MANAGEMENT DISTRICT INQUIRIES, RELATIVE TO COMPLIANCE OF SJRWMD FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.
32. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS AND PRESERVATION EASEMENTS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A PERMANENT STAND OF SOD AND/OR GRASS PER THE CONTRACT DOCUMENTS AND MEETING THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, NASSAU COUNTY AND NPDES FINAL STABILIZATION REQUIREMENTS.
34. THESE PLANS INCLUDING THE POLLUTION PREVENTION PLAN INDICATE THE MINIMUM EROSION & SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO "THE FLORIDA DEVELOPMENT MANUAL – A GUIDE TO

SOUND LAND AND WATER MANAGEMENT" FROM THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (F.D.E.P.) CHAPTER 6. CONTRACTOR SHALL PROVIDE EROSION PROTECTION AND TURBIDITY CONTROL AS REQUIRED TO INSURE CONFORMANCE TO STATE AND FEDERAL WATER QUALITY STANDARDS AND MAY NEED TO INSTALL ADDITIONAL CONTROLS TO CONFORM TO AGENCIES REQUIREMENTS. IF A WATER QUALITY VIOLATION OCCURS, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ALL DAMAGE AND ALL COSTS WHICH MAY RESULT INCLUDING LEGAL FEES, CONSULTANT FEES, CONSTRUCTION COSTS, AND FINES.

35. 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A "NOTICE OF INTENT" TO THE EPA IN ACCORDANCE WITH NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM RULES AND REGULATIONS. (FOR ANY CONSTRUCTION NOT COVERED BY THE OWNER'S "NOTICE OF INTENT" PERMIT)

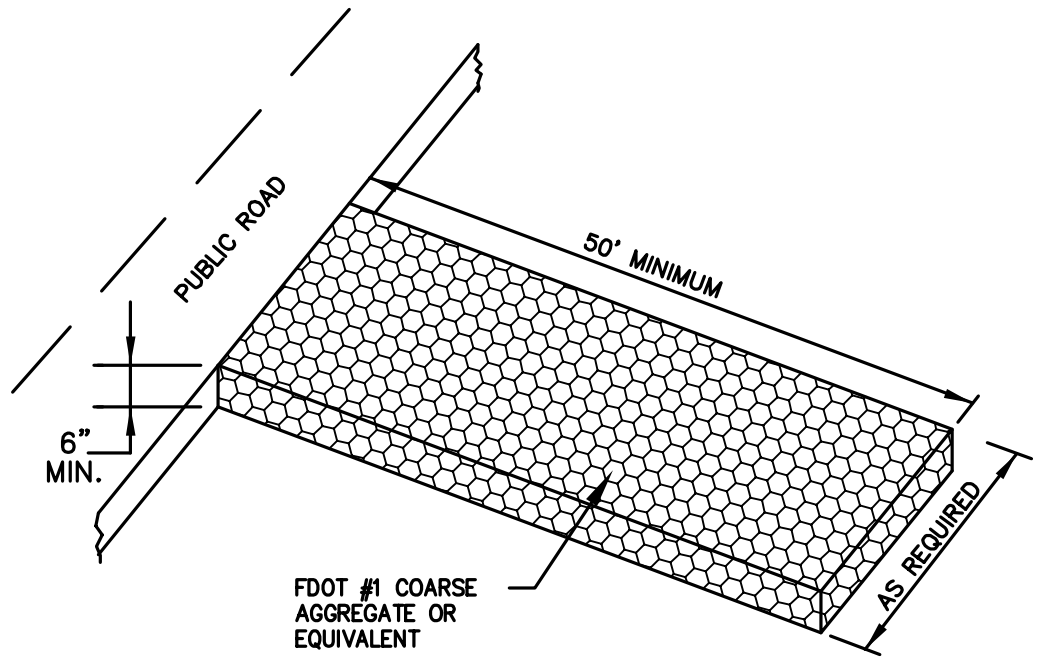


SECTION A-A



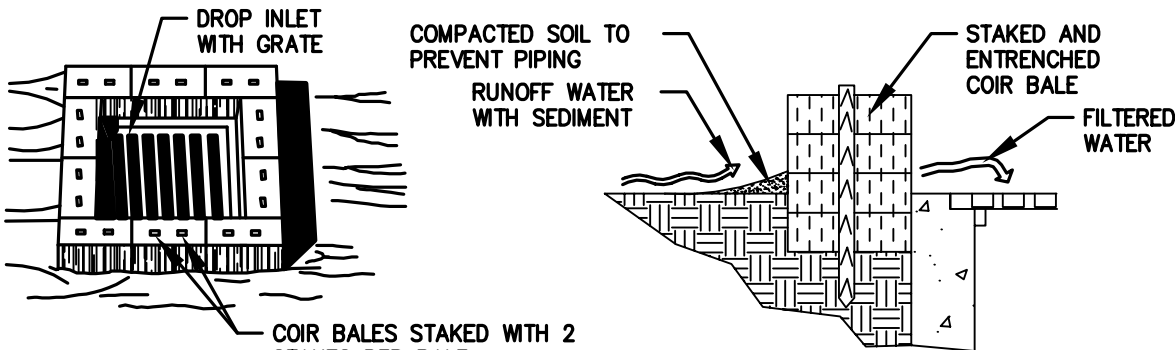
TEMPORARY DEWATERING DETAIL

N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

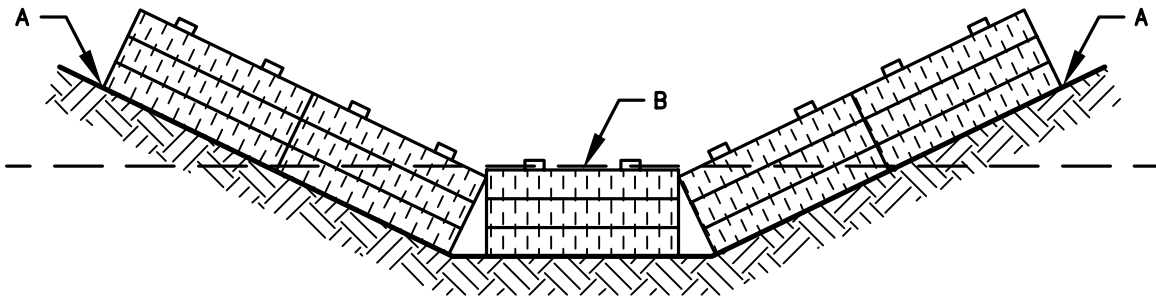


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

COIR BALE DROP INLET SEDIMENT FILTER

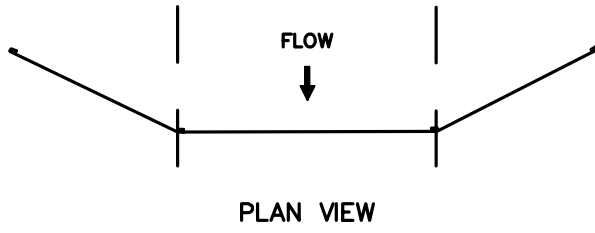
N.T.S.



POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF COIR BALE
IN A DRAINAGE WAY

N.T.S.

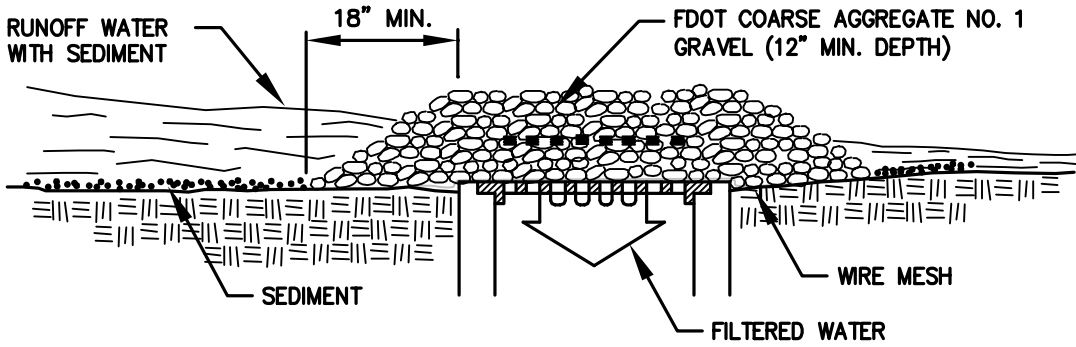


SECTION VIEW

POINTS A SHOULD BE HIGHER THAN POINT B

PROPER PLACEMENT OF A
FILTER BARRIER IN DRAINAGE WAY

N.T.S.

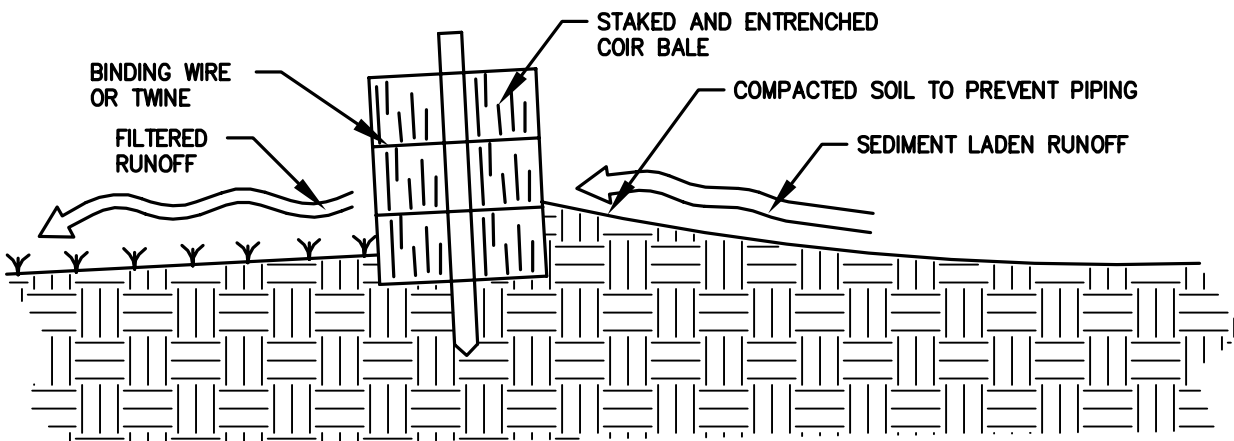


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

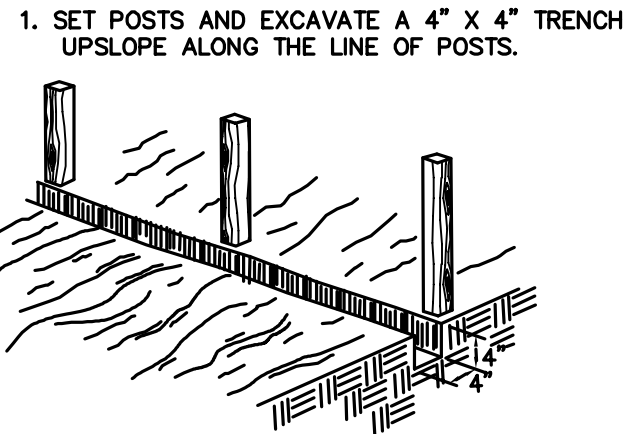
GRAVEL AND WIRE MESH DROP INLET
SEDIMENT FILTER

N.T.S.

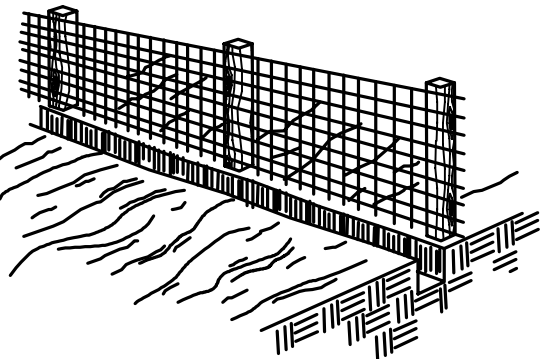


CROSS-SECTION OF A PROPERLY
INSTALLED COIR BALE

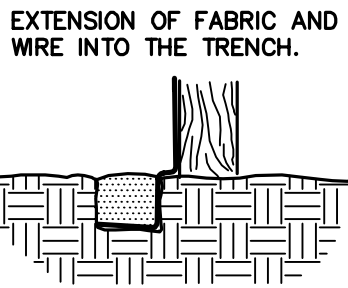
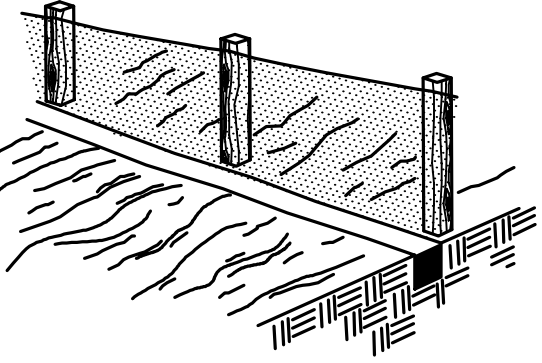
N.T.S.



2. STAPLE WIRE FENCING TO THE POSTS.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

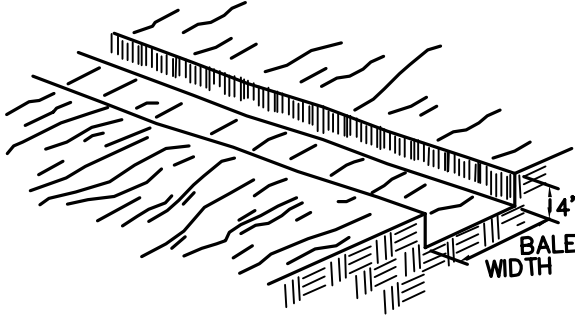


EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.

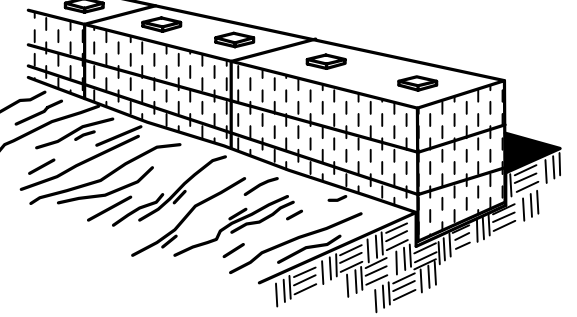
CONSTRUCTION OF SILT FENCE

N.T.S.

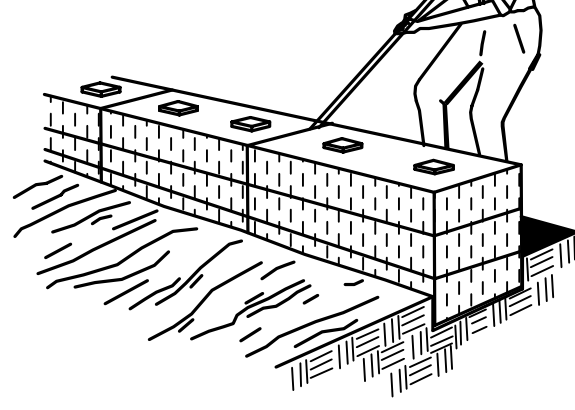
1. EXCAVATE THE TRENCH



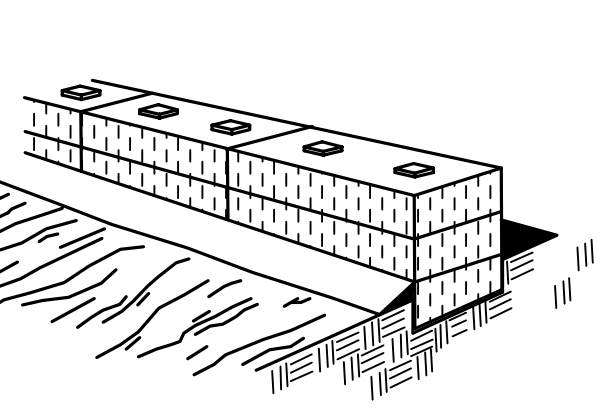
2. PLACE AND STAKE COIR BALES.



3. WEDGE LOOSE COIR BETWEEN BALES.



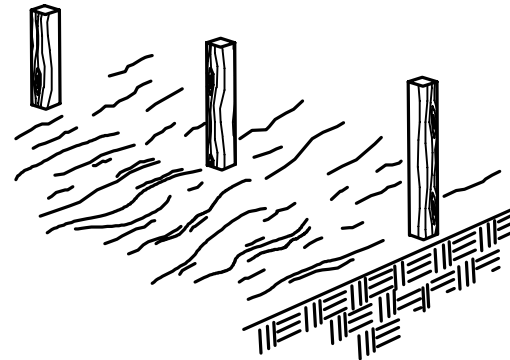
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.



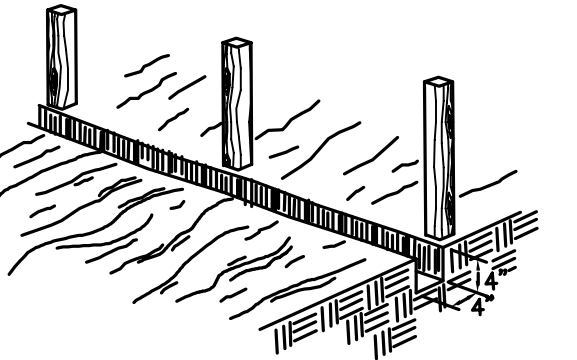
CONSTRUCTION OF A COIR BALE BARRIER

N.T.S.

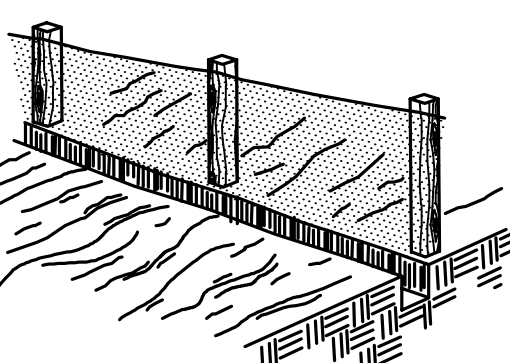
1. SET THE STAKES.



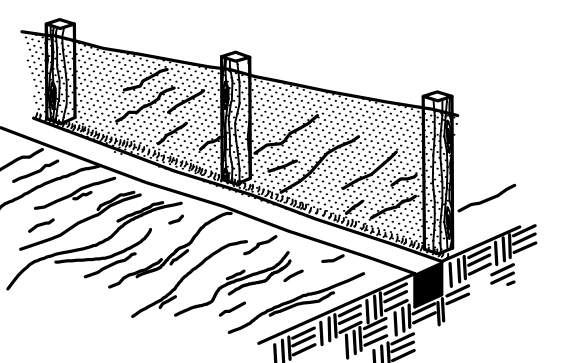
2. EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES



3. STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4. BACKFILL AND COMPACT THE EXCAVATED SOIL



CONSTRUCTION OF A FILTER BARRIER

N.T.S.

SEDIMENT AND EROSION CONTROL

DETAILS

BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER
14

England-Thins & Miller, Inc.

10001 S. Highway 19
Jacksonville, FL 32228

TEL: (904) 642-8890
FAX: (904) 646-9485

REC-2584 LC-0000316

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

REVISIONS:

PLANS PREPARED UNDER THE
DIRECTION OF:

LYNDSEY KELLER
P.E. NUMBER: 77763

OWNER'S REQUIREMENTS

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
BAPTIST WEST NASSAU MEDICAL VILLAGE
NASSAU COUNTY, FLORIDA

OWNER/DEVELOPER NAME AND ADDRESS:

BAPTIST HEALTH PROPERTIES, INC.
1660 PRUNENTIAL DRIVE, SUITE 101
JACKSONVILLE, FL
904-202-5626

DESCRIPTION:

THIS PROJECT WILL CONSIST OF:

CONSTRUCTION OF A COMMERCIAL DEVELOPMENT. CONSTRUCTION WILL CONSIST OF INSTALLATION OF UNDERGROUND UTILITIES, CLEARING, GRADING, ROADWAYS, PARKING AREAS, AND ASSOCIATED CONSTRUCTION.

SOIL DISTURBING ACTIVITIES WILL INCLUDE:
CLEARING AND GRUBBING; INSTALLING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; GRADING; EXCAVATION FOR THE SEDIMENTATION POND, STORM SEWER, UTILITIES, AND BUILDING FOUNDATION; CONSTRUCTION OF CURB AND GUTTER, ROAD, AND PARKING AREAS; AND PREPARATION FOR FINAL PLANTING AND SEEDING.

GENERALIZED RUNOFF CURVE NUMBERS (REFER TO DRAINAGE CALCULATIONS FOR ACTUAL CURVE NUMBER FOR EACH BASIN)

1. PRE-CONSTRUCTION = 80±
2. DURING CONSTRUCTION = 96±
3. POST-CONSTRUCTION = 96±

SOILS:
* SEE ATTACHED FOR SOILS DATA

SITE MAPS:
* SEE ATTACHED DWG. No. 7A ~ 7E FOR POST DEVELOPMENT GRADES, AREAS OF SOILS, DISTURBANCE, LOCATION OF SURFACE WATERS, WETLANDS, PROTECTED AREAS, MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS AND STORM WATER DISCHARGE POINTS.

* SEE ATTACHED DWG. No. 13 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES, AND TURBIDITY BARRIERS

SITE AREA:
1. TOTAL AREA OF SITE = 24.60 AC±
2. TOTAL AREA TO BE DISTURBED = 10.36 AC±

NAME OF RECEIVING WATERS: HEADWATERS OF PLUMMER CREEK

GENERAL

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE

9. INSTALL UTILITIES, STORM SEWER, CURBS & GUTTER.

2. INSTALL SILT FENCES AND COIR BALES AS REQUIRED

10. APPLY BASE TO PARKING AREAS

3. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN

11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING

4. CONSTRUCT SEDIMENTATION BASIN

12. COMPLETE FINAL PAVING

5. CONTINUE CLEARING AND GRUBBING

13. REMOVE ACCUMULATED SEDIMENT FROM BASINS

6. STOCK PILE TOP SOIL IF REQUIRED

14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/SOD AS REQUIRED

7. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED

8. STABILIZE DENUDEED AREAS AND STOCKPILES AS SOON AS PRACTICABLE

NOTE: VERTICAL CONSTRUCTION OF THE BUILDING WILL BE TAKING PLACE DURING ALL THE SEQUENCE STEPS LISTED ABOVE

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND COIR BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE SEDIMENT AND EROSION CONTROL PLAN (DRAWING NO. 13)

CONTROLS

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. DWG. No. XX AND XX HAVE BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS AS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO "CONTRACTORS REQUIREMENTS" FOR A VERBAL DESCRIPTION OF THE CONTROLS THAT MAY BE IMPLEMENTED.

AREAS WHICH ARE NOT DEVELOPED BUT WILL BE REGRADED SHALL BE STABILIZED IMMEDIATELY AFTER GRADING IS COMPLETE.

EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES

1. COIR BALE BARRIER: COIR BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF COIR BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURES SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.

2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.

3. BRUSH BARRIER WITH FILTER FABRIC: BRUSH BARRIER MAY BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WHERE ENOUGH RESIDUE MATERIAL IS AVAILABLE ON SITE.

4. LEVEL SPREADER: A LEVEL SPREADER MAY BE USED WHERE SEDIMENT-FREE STORM RUNOFF IS INTERCEPTED AND DIVERTED AWAY FROM THE GRADED AREAS ONTO UNDISTURBED STABILIZED AREAS. THIS PRACTICE APPLIES ONLY IN THOSE SITUATIONS WHERE THE SPREADER CAN BE CONSTRUCTED ON UNDISTURBED SOIL AND THE AREA BELOW THE LEVEL UP IS STABILIZED. THE WATER SHOULD NOT BE ALLOWED TO RECONCENTRATE AFTER RELEASE.

5. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.

6. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.

CONTROLS

IT IS THE CONTRACTORS RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED , MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED BY THE EROSION AND SEDIMENT CONTROL PLAN AND AS REQUIRED TO MEET THE SEDIMENT AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

OTHER CONTROLS

WASTE DISPOSAL
WASTE MATERIALS
ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE BY THE CONSTRUCTION SUPERINTENDENT. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER OR SEPTIC SYSTEMS.

OFFSITE VEHICLE TRACKING
A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM TRUCKS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP-AULIN.

CONTRACTOR'S REQUIREMENTS

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

Concrete
Asphalt
Tar
Detergents

Fertilizers
Petroleum Based Products
Cleaning Solvents
Paints

Wood
Masonry Blocks
Roofing Materials
Metal Studs

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING
THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

* AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
* ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
* PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
* SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.

* WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
* MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
* THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE MATERIALS ONSITE RECEIVE PROPER USE AND DISPOSAL.

HAZARDOUS PRODUCTS
THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
* PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
* ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
* IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES
THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

PETROLEUM PRODUCTS
ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS
FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED AREA. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS
ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS
CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED ON SITE AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, LIQUID ABSORBENT (I.E. KITTY LITTER OR EQUAL), SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE OF THE SPILL.

THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE/SHE WILL DESIGNATE AT LEAST ONE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IF APPLICABLE, IN THE OFFICE TRAILER ONSITE.

MAINTENANCE/INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES
THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

* NO MORE THAN 10 ACRES OF THE SITE WILL BE DENUED AT ONE TIME WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

* ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, AT LEAST ONCE A WEEK AND FOLLOWING ANY STORM EVENT OF 0.50 INCHES OR GREATER.

* ALL TURBIDITY CONTROL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

* BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

* SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

* THE SEDIMENT BASINS WILL BE INSPECTED FOR THE DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.

* DIVERSION DIKES/SWALES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.

* TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

* A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM SHALL BE COMPLETED BY THE INSPECTOR
THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND AND EROSION PLANS, OR STORM WATER MANAGEMENT PLANS.
THE REPORTS SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE SITE IS FINALLY STABILIZED AND THE NOTICE OF TERMINATION IS SUBMITTED. THE REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

* THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

* PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.

NON-STORM WATER DISCHARGES

* IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

* WATER FROM WATER LINE FLUSHING

* PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

* UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DEWATERING

PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS), THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF THE TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2), F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE, WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2), F.A.C. IF THE GROUND WATER EXCEEDS THE SCREENING VALUES OF RULE 62-621.300(2) F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO SURFACE WATERS OF THE STATE.

SIGNATURE	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
		GENERAL CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR

PLANS PREPARED UNDER THE DIRECTION OF:

REVISIONS:

ETM NO. 17-252-01-001

DRAWN BY: NEW

DESIGNED BY: JN

CHECKED BY: LDK

DATE: JUL 2020

England-Thins & Miller, Inc.
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Jacksonville, FL 32228
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VISION • EXPERIENCE • RESULTS

STORMWATER POLLUTION PREVENTION PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

15

PLANNING

DESIGN

CONSTRUCTION

OPERATION

MAINTENANCE

DEMOLITION

RECYCLING

WASTE MANAGEMENT

WATER TREATMENT

WATER SUPPLY

WATER DISTRIBUTION

WATER CONSERVATION

WATER QUALITY

WATER POLLUTION

WATER RESOURCES

WATER USE

WATER RIGHTS

WATER LAW

WATER POLICY

WATER ECONOMICS

WATER SCIENCE

WATER TECHNOLOGY

WATER ENGINEERING

WATER MANAGEMENT

WATER PLANNING

WATER DESIGN

WATER CONSTRUCTION

WATER OPERATION

WATER MAINTENANCE

WATER DEMOLITION

WATER RECYCLING

WATER WASTE MANAGEMENT

WATER WATER TREATMENT

WATER WATER SUPPLY

WATER WATER DISTRIBUTION

WATER WATER CONSERVATION

WATER WATER QUALITY

WATER WATER POLLUTION

WATER WATER RESOURCES

WATER WATER USE

WATER WATER RIGHTS

WATER WATER LAW

WATER WATER POLICY

WATER WATER ECONOMICS

WATER WATER SCIENCE

WATER WATER TECHNOLOGY

WATER WATER ENGINEERING

WATER WATER MANAGEMENT

WATER WATER PLANNING

WATER WATER DESIGN

WATER WATER CONSTRUCTION

WATER WATER OPERATION

WATER WATER MAINTENANCE

WATER WATER DEMOLITION

WATER WATER RECYCLING

WATER WATER WASTE MANAGEMENT

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PLOTTED: April 16, 2021 - 9:40 AM BY: CAD Test

BAPTIST WEST NASSAU MEDICAL VILLAGE

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

THIS IS THE CONTRACTORS CERTIFICATION REQUIRED BY THE EPA'S NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES). STORM WATER POLLUTION PREVENTION PLAN (SWPPP) CERTIFICATION MUST BE COMPLETED WEEKLY AND AFTER EVERY RAINFALL EVENT OF 0.50 INCHES OR GREATER.

INSPECTOR: _____

INSPECTOR'S QUALIFICATIONS:

DAYS SINCE LAST RAINFALL: _____ AMOUNT OF LAST RAINFALL: _____ INCHES

STABILIZATION MEASURES

INSPECTION AREA (DESCRIPTION OF LOCATION)	DATE SINCE LAST DISTURBED	DATE OF NEXT DISTURBANCE	STABILIZED ? (YES/NO)	STABILIZED WITH	CONDITION

STABILIZATION REQUIRED:

TO BE PERFORMED BY: _____ ON OR BEFORE _____

PAGE 1 OF 4

BAPTIST WEST NASSAU MEDICAL VILLAGE

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

SEDIMENT BASIN

DEPTH OF SEDIMENT IN BASIN	DEPTH OF SEDIMENT SIDE BASIN	ANY EVIDENCE OF OVERTOPPING OF THE EMBANKMENT ?	CONDITION OF OUTFALL FROM SEDIMENT BASIN

MAINTENANCE REQUIRED FOR SEDIMENT BASIN:

TO BE PERFORMED BY: _____ ON OR BEFORE _____

OTHER CONTROLS

STABILIZED CONSTRUCTION ENTRANCE

DOES MUCH SEDIMENT GET TRACKED ON TO ROAD ?	IS THE GRAVEL CLEAN OR IS IT FILLED WITH SEDIMENT?	DOES ALL TRAFFIC USE THE STABILIZED ENTRANCE TO LEAVE THE SITE ?	IS THE CULVERT BENEATH THE ENTRANCE WORKING? (IF APPLICABLE)

MAINTENANCE REQUIRED FOR STABILIZED CONSTRUCTION ENTRANCE:

TO BE PERFORMED BY: _____ ON OR BEFORE _____

PAGE 3 OF 4

BAPTIST WEST NASSAU MEDICAL VILLAGE

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

DATE: _____

STRUCTURAL CONTROLS

EARTH DIKES/SWALES

DIKE OR SWALE	FROM	TO	IS DIKE/SWALE STABILIZED ?	IS THERE EVIDENCE OF WASHOUT OR OVERTOPPING

MAINTENANCE REQUIRED FOR EARTH DIKE/SWALE:

TO BE PERFORMED BY: _____ ON OR BEFORE _____

CATCH BASIN/CURB INLET/OUTFALL TURBIDITY CONTROLS

STRUCTURE/ OUTFALL	ARE TURBIDITY CONTROLS IN PLACE	ANY EVIDENCE OF CLOGGING/WASHOUT OR BYPASSING ?	ARE TURBIDITY CONTROLS IN NEED OF REPLACING	DOES SILT NEED TO BE REMOVED FROM AROUND CONTROL

MAINTENANCE REQUIRED FOR CATCH BASIN/CURB INLETS/OUTFALLS TURBIDITY CONTROLS:

TO BE PERFORMED BY: _____ ON OR BEFORE _____

PAGE 2 OF 4

BAPTIST WEST NASSAU MEDICAL VILLAGE

STORM WATER POLLUTION PREVENTION PLAN
INSPECTION AND MAINTENANCE REPORT FORM

CHANGES REQUIRED TO THE POLLUTION PREVENTION PLAN:

REASONS FOR CHANGES:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED BASED ON AN INQUIRY OF THE PERSON OR PERSONS WHO SUBMITTED THE INFORMATION. I AM AWARE THAT THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE: _____

DATE: _____

PAGE 4 OF 4

DRAWING NUMBER
16

**SWPPP CONTRACTORS
CERTIFICATION**
**BAPTIST WEST NASSAU MEDICAL VILLAGE
FOR
BAPTIST HEALTH PROPERTIES, INC.**

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17500 Old Highway Road
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TEL: (904) 642-8890
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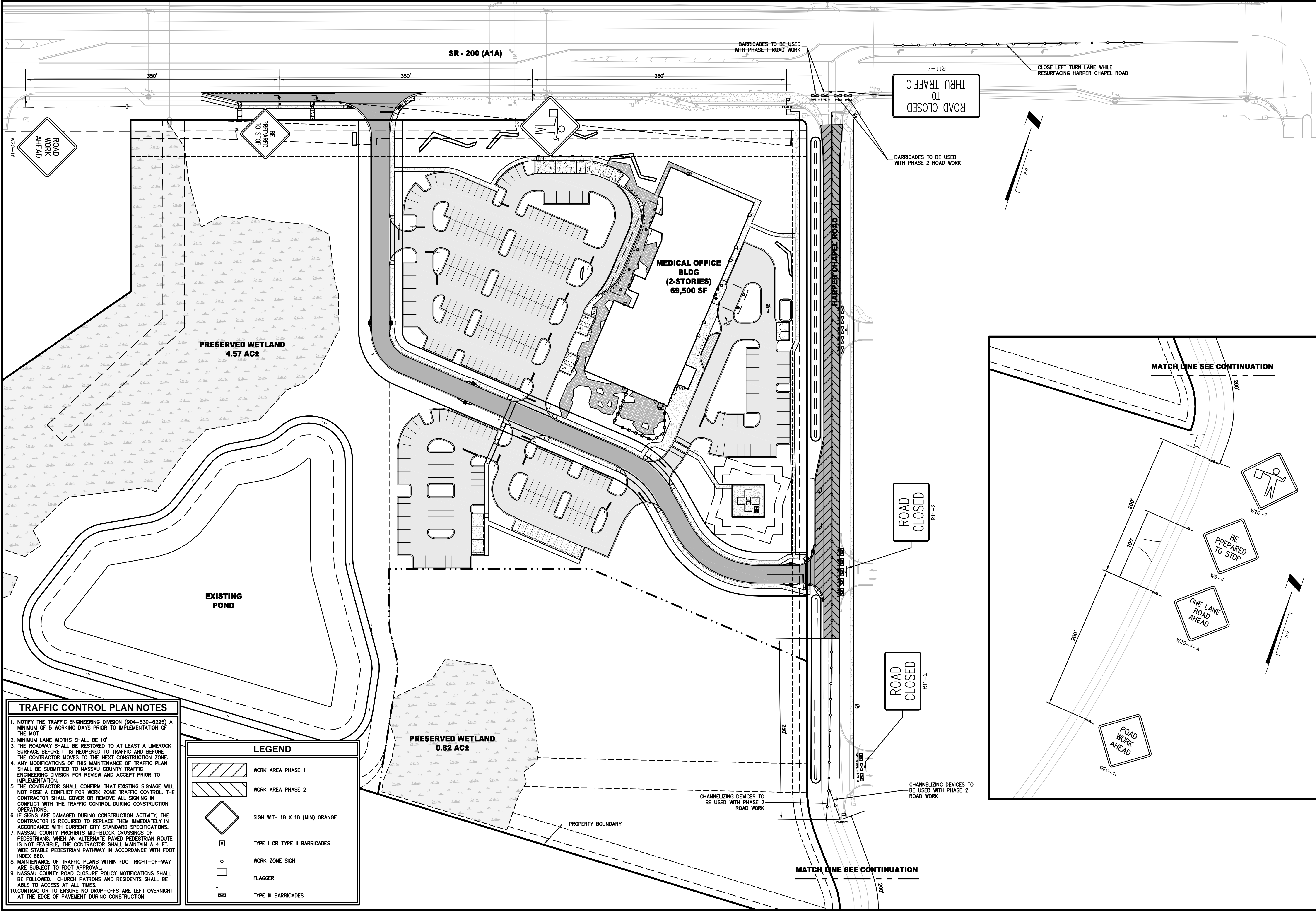
ETM
VISION • EXPERIENCE • RESULTS

REVISIONS:

ETM NO. 17-252-01-001
DRAWN BY: NEW
DESIGNED BY: JN
CHECKED BY: LDK
DATE: JUL 2020

PLANS PREPARED UNDER THE
DIRECTION OF:

LYNDSEY KELLER
P.E. NUMBER: 77763

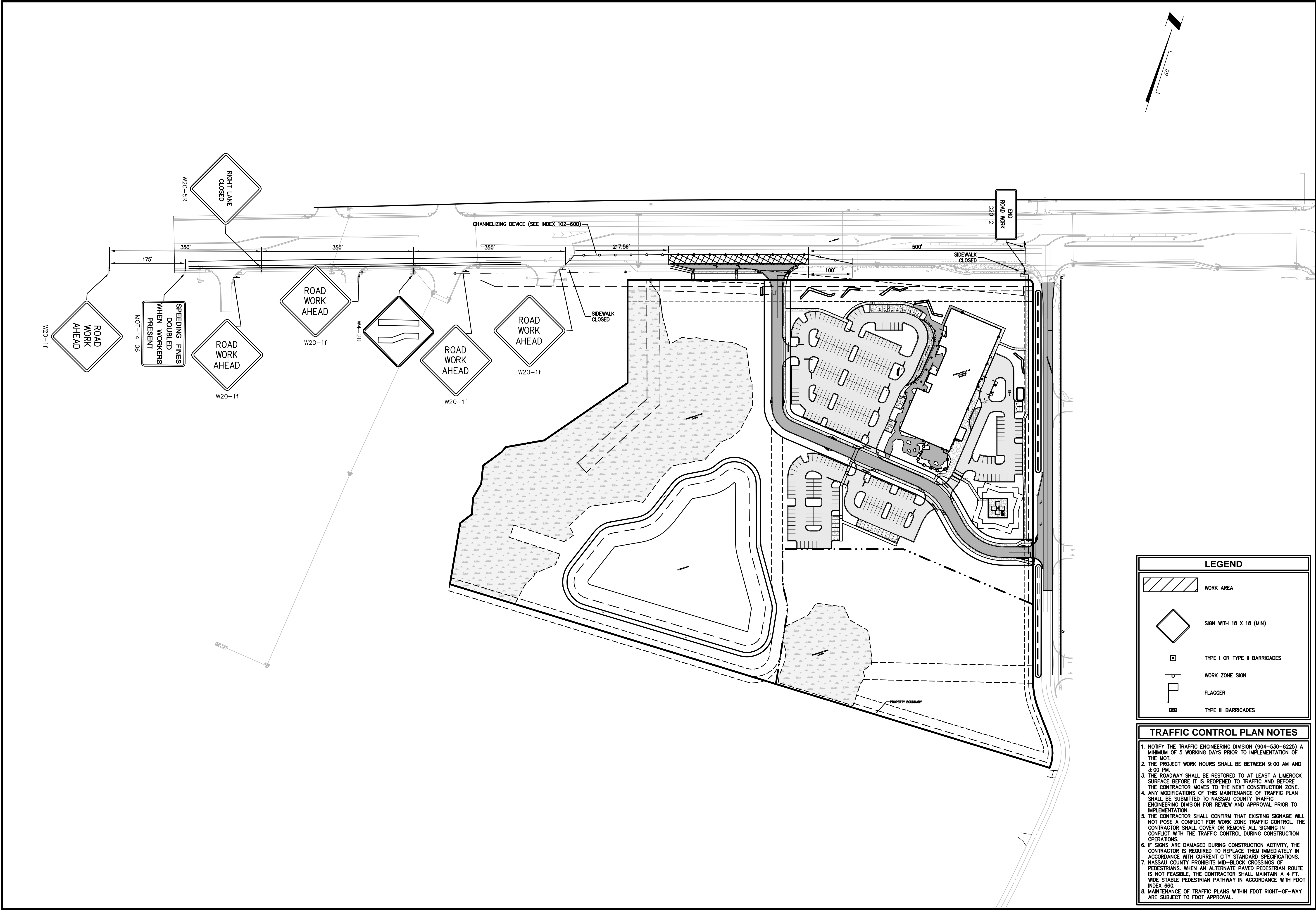


- TRAFFIC CONTROL PLAN NOTES**
1. NOTIFY THE TRAFFIC ENGINEERING DIVISION (904-530-6225) A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE MOT.
 2. MINIMUM LANE WIDTHS SHALL BE 10'
 3. THE ROADWAY SHALL BE RESTORED TO AT LEAST A ULMEROCK SURFACE BEFORE IT IS REOPENED TO TRAFFIC AND BEFORE THE CONTRACTOR MOVES TO THE NEXT CONSTRUCTION ZONE.
 4. ANY MODIFICATIONS OF THIS MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO NASSAU COUNTY TRAFFIC ENGINEERING DIVISION FOR REVIEW AND ACCEPT PRIOR TO IMPLEMENTATION.
 5. THE CONTRACTOR SHALL CONFIRM THAT EXISTING SIGNAGE WILL NOT POSE A CONFLICT FOR WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL COVER OR REMOVE ALL SIGNING IN CONFLICT WITH THE TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.
 6. IF SIGNS ARE DAMAGED DURING CONSTRUCTION ACTIVITY, THE CONTRACTOR IS REQUIRED TO REPLACE THEM IMMEDIATELY IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS.
 7. NASSAU COUNTY PROHIBITS MID-BLOCK CROSSINGS OF PEDESTRIANS. WHEN AN ALTERNATE PAVED PEDESTRIAN ROUTE IS NOT FEASIBLE, THE CONTRACTOR SHALL MAINTAIN A 4 FT. WIDE STABLE PEDESTRIAN PATHWAY IN ACCORDANCE WITH FDOT INDEX 660.
 8. MAINTENANCE OF TRAFFIC PLANS WITHIN FDOT RIGHT-OF-WAY ARE SUBJECT TO FDOT APPROVAL.
 9. NASSAU COUNTY ROAD CLOSURE POLICY NOTIFICATIONS SHALL BE FOLLOWED. CHURCH PATRONS AND RESIDENTS SHALL BE ABLE TO ACCESS AT ALL TIMES.
 10. CONTRACTOR TO ENSURE NO DROP-OFFS ARE LEFT OVERNIGHT AT THE EDGE OF PAVEMENT DURING CONSTRUCTION.

LEGEND	
	WORK AREA PHASE 1
	WORK AREA PHASE 2
	SIGN WITH 18 X 18 (MIN) ORANGE
	TYPE I OR TYPE II BARRICADES
	WORK ZONE SIGN
	FLAGGER
	TYPE III BARRICADES

MAINTENANCE OF TRAFFIC PLAN		ETM VISION • EXPERIENCE • RESULTS	England-Thing & Miller, Inc. 17501 St. Andrews Road Jacksonville, FL 32228 TEL: (904) 642-8890 FAX: (904) 642-9485 REG - 2584 LC - 0000316	REVISIONS: ETM NO. 17-252-01-001 DRAWN BY: NEW DESIGNED BY: JN CHECKED BY: LDK DATE: JUL 2020	PLANS PREPARED UNDER THE DIRECTION OF: LYNDSEY KELLER P.E. NUMBER: 77763
BAPTIST WEST NASSAU MEDICAL VILLAGE FOR BAPTIST HEALTH PROPERTIES, INC.			DRAWING NUMBER 17A		

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LEGEND

	WORK AREA
	SIGN WITH 18 X 18 (MIN)
	TYPE I OR TYPE II BARRICADES
	WORK ZONE SIGN
	FLAGGER
	TYPE III BARRICADES

TRAFFIC CONTROL PLAN NOTES

1. NOTIFY THE TRAFFIC ENGINEERING DIVISION (904-530-6225) A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE MOT.
2. THE PROJECT WORK HOURS SHALL BE BETWEEN 9:00 AM AND 3:00 PM.
3. THE ROADWAY SHALL BE RESTORED TO AT LEAST A LIMEROCK SURFACE BEFORE IT IS REOPENED TO TRAFFIC AND BEFORE THE CONTRACTOR MOVES TO THE NEXT CONSTRUCTION ZONE.
4. ANY MODIFICATIONS OF THIS MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO NASSAU COUNTY TRAFFIC ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
5. THE CONTRACTOR SHALL CONFIRM THAT EXISTING SIGNAGE WILL NOT POSE A CONFLICT FOR WORK ZONE TRAFFIC CONTROL. THE CONTRACTOR SHALL COVER OR REMOVE ALL SIGNING IN CONFLICT WITH THE TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS.
6. IF SIGNS ARE DAMAGED DURING CONSTRUCTION ACTIVITY, THE CONTRACTOR IS REQUIRED TO REPLACE THEM IMMEDIATELY IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS.
7. NASSAU COUNTY PROHIBITS MID-BLOCK CROSSINGS OF PEDESTRIANS. WHEN AN ALTERNATE PAVED PEDESTRIAN ROUTE IS NOT FEASIBLE, THE CONTRACTOR SHALL MAINTAIN A 4 FT. WIDE STABLE PEDESTRIAN PATHWAY IN ACCORDANCE WITH FDOT INDEX 660.
8. MAINTENANCE OF TRAFFIC PLANS WITHIN FDOT RIGHT-OF-WAY ARE SUBJECT TO FDOT APPROVAL.

MAINTENANCE OF TRAFFIC PLAN

BAPTIST WEST NASSAU MEDICAL VILLAGE

FOR

BAPTIST HEALTH PROPERTIES, INC.

DRAWING NUMBER

17B

England-Thins & Miller, Inc.
17500 S.W. 11th Street, Suite 200
Jacksonville, FL 32228
TEL: (904) 642-8890
FAX: (904) 646-9485
REG - 2584 LC - 0000316

ETM
VISION • EXPERIENCE • RESULTS

PLANS PREPARED UNDER THE DIRECTION OF:

LYNDSEY KELLER
P.E. NUMBER: 77763

REVISIONS:

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