

MERCY HILL CHURCH EXPANSION

NASSAU COUNTY, FL

**PREPARED FOR
MERCY HILL CHURCH
85520 MINER ROAD
YULEE, FL 32097
PHONE: (904) 225-0777**



DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
1B	SIGNATURE SHEET
2	GENERAL NOTES
3	DEMOLITION PLAN
4	OVERALL SITE PLAN
5	SITE PLAN
6	UTILITY PLAN
7A	PRE DEVELOPMENT PLAN
7B	POST DEVELOPMENT PLAN
8A – 8B	PAVING AND DRAINAGE PLAN
9A – 9D	PAVING AND DRAINAGE DETAILS
10A – 10G	WATER AND SEWER DETAILS
11	PUMP STATION DETAIL
12	SEDIMENT AND EROSION CONTROL PLAN
13	STORMWATER POLLUTION PREVENTION PLAN
14	LIGHTING PLAN

NOTE:
ALL WATER AND SEWER UTILITY CONSTRUCTION
SHALL BE ACCOMPLISHED IN ACCORDANCE WITH
JEA PLANS BEARING THE JEA APPROVAL STAMP
AND BE IN POSSESSION OF THE CONTRACTOR AT
ALL TIMES.

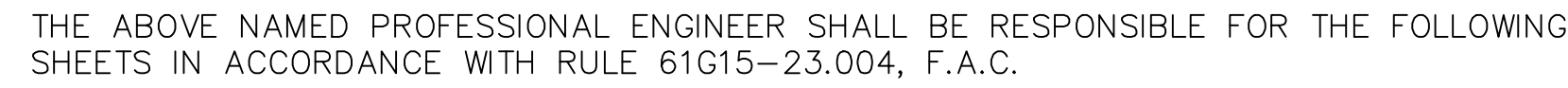
NOTE

WATER AND SEWER
UTILITIES DESIGNED PER
2021 JEA STANDARDS



10060 SKINNER LAKE DR., SUITE 500
JACKSONVILLE, FLORIDA 32246
(904) 265-3030 FAX: (904) 265-3031
C.A. NUMBER: 3650 L.A. NUMBER: LC26000311
www.cwieng.com

[illegible]



CONNELLY & WICKER INC.
10060 SKINNER LAKE DR., SUITE 500
JACKSONVILLE, FL 32246
PHONE 904.265.3030 FAX 904.265.3031
CA NO. 3650 LA NO. LC26000311
AUTUMN M. HUBSCH, P.E. NO. 72939

MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

AUTUMN HUBSCH
PE NO. 72939
Reg. Engineer

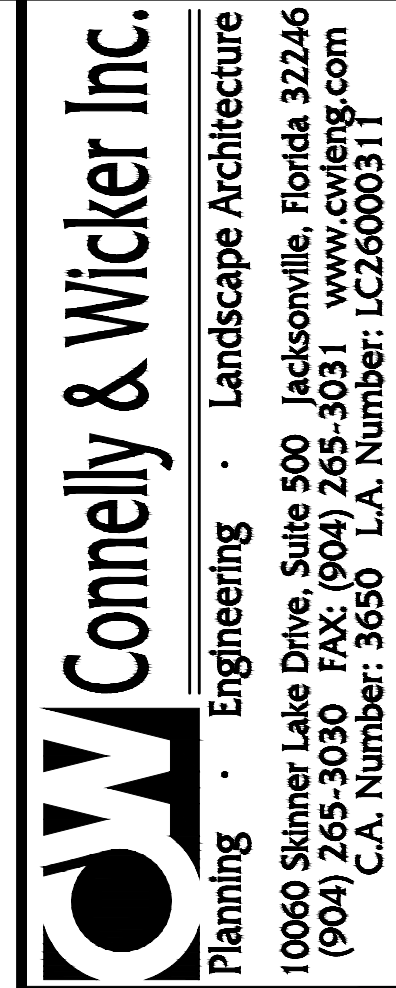
Project No.: 20-01-0065	
Designed: AMH	Drawn: AMH
Checked: JEW	O.C.: RCW

Date: June 26, 2024

Scale: 1" = ##

Sheet 1B

SIGNATURE SHEET



rev. Engineer	NO. date	BY
THIS DRAWING IS THE PROPERTY OF CONNELLY & WICKER INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.		

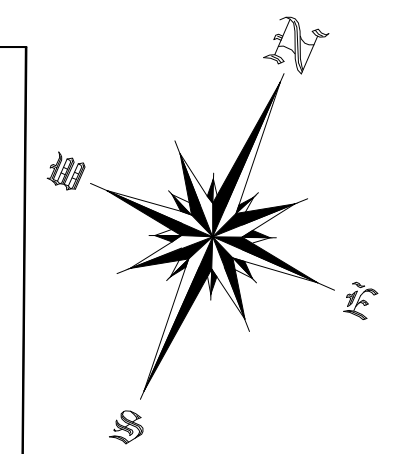
1. ALL WORK AND MATERIALS SHALL BE IN COMPLETE ACCORDANCE WITH ALL RELATIVE SECTIONS OF COUNTY STANDARDS, (LATEST REVISION) AND ALL CURRENT COUNTY STANDARD DETAILS. CONTRACTOR SHALL COMPLY WITH CURRENT A.D.A. CODE FOR ALL WORK ON THIS PROJECT.
2. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH O.S.H.A. REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE JOB SITE PRIOR TO PREPARING THE BID FOR THE PURPOSE OF FAMILIARIZING HIMSELF WITH THE NATURE AND THE EXTENT OF THE WORK AND LOCAL CONDITIONS, EITHER SURFACE OR SUB-SURFACE, WHICH MAY AFFECT THE WORK TO BE PERFORMED, AND THE EQUIPMENT, LABOR AND MATERIALS REQUIRED. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF COMPLETE PERFORMANCE UNDER THIS CONTRACT. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS THROUGHOUT THE PROJECT AREA TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND TO AID IN RESOLVING POSSIBLE FUTURE COMPLAINTS THAT MAY OCCUR DUE TO CONSTRUCTION OF THE PROJECT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EITHER CONDUCT ANY FIELD EXPLORATION OR ACQUIRE ANY GEOTECHNICAL ASSISTANCE REQUIRED TO ESTIMATE THE AMOUNT OF UNSUITABLE MATERIAL REQUIRED TO BE REMOVED AND/OR TO ESTIMATE THE AMOUNT OF OFF SITE BORROW THAT WILL BE REQUIRED.
5. ALL IMPROVEMENTS SHOWN ARE TO BE WARRANTED BY THE CONTRACTOR TO THE DEVELOPER AND THE COUNTY FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER AND THE COUNTY.
6. ELEVATIONS ARE BASED ON NORTH AMERICAN DATUM OF 1988 (NAV88) AS DETERMINED BY GHIOITTO & ASSOCIATES, INC.
7. FOR BOUNDARY, ROADWAY AND LOT GEOMETRY INFORMATION SEE PLAT.
8. THE CONTRACTOR WILL CONTRACT WITH AN INDEPENDENT TESTING LABORATORY TO PERFORM MATERIAL TESTING AND SOIL TESTING IN ACCORDANCE WITH COUNTY REQUIREMENTS. THIS SHALL INCLUDE DENSITY TESTS IN ALL PAVEMENT AREAS AND IN ALL UTILITY TRENCHES LOCATED IN PAVEMENT AREAS CONCRETE TESTING AND ALL OTHER MATERIAL TESTING. PRIOR TO LIME/ROCK PLACEMENT, THE PROJECT GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATIONS FOR UNDERDRAIN GEOTECH.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE FOR THE PROJECT INCLUDING COUNTY RIGHT-OF-WAY PERMITS FOR WORK IN THE COUNTY RIGHT-OF-WAY OR EASEMENT.
10. THE CONTRACTOR SHALL COORDINATE THE WORK WITHIN COUNTY OR STATE RIGHT-OF-WAY WITH THE PROPER AGENCIES FOR MAINTENANCE OF TRAFFIC AND METHOD OF CONSTRUCTION AND REPAIR.
11. ALL PUBLIC DRAINAGE EASEMENTS SHALL BE "UNOBSTRUCTED" EASEMENTS. ALL "UNOBSTRUCTED" EASEMENTS TO BE CLEAR AND DRIVEABLE.
12. "AS-BUILT" DRAWINGS -- AS-BUILTS TO THE COUNTY AND THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT ARE REQUIRED TO BE SIGNED AND SEALED BY A FLORIDA REGISTERED LAND SURVEYOR THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTRACT WITH A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE PREPARATION, FIELD LOCATIONS, CERTIFICATION AND SUBMITTAL OF "AS-BUILT" DRAWINGS IN ACCORDANCE WITH CURRENT COUNTY STANDARDS AND SPECIFICATIONS AND S.J.R.W.M.D. REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCESS THE "AS-BUILT" DRAWINGS FOR APPROVAL BY THE COUNTY. A-BUILTS ARE TO BE PREPARED IN ACCORDANCE WITH NASSAU COUNTY REQUIREMENT CHECKLIST.
13. 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.
14. CLEARING AND GRUBBING REQUIRED FOR ALL ROADWAY, UTILITIES, DITCHES, AND BERMS INCLUDED IN THIS PROJECT, AND THE CLEARING AND GRUBBING OF ALL RIGHT-OF-WAY OR EASEMENTS SHALL BE CONSIDERED AS PART OF THE PROJECT.
15. ALL AREAS SHOWN TO BE FILLED SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH COUNTY STANDARDS AND SHALL BE FILLED WITH CLEAN STRUCTURAL FILL COMPACTED AND TESTED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION REPORT.
16. 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.
17. ALL DEBRIS RESULTING FROM ALL ACTIVITIES SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR.
18. ALL EXCESS SUITABLE AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY ENGINEER OR OWNER.
19. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
20. BURNING OF TREES, BRUSH AND OTHER MATERIAL SHALL BE APPROVED, PERMITTED AND COORDINATED WITH COUNTY FIRE MARSHAL.
21. ROADWAY UNDERDRAINS SHALL BE AS REQUIRED ON THE PLANS OR AS MAY BE DETERMINED NECESSARY BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF HIGH GROUND WATER CONDITIONS ARE PRESENT DURING THE PREPARATION OF THE PAVEMENT SUB-BASE.
22. PROVIDE CONTRACTION JOINTS AT 10' O.C. AND EXPANSION JOINTS AT 50' O.C. ON ALL EXTERIOR SIDEWALKS AND CURBING.
23. MAINTENANCE OF TRAFFIC SHALL CONFORM TO F.D.O.T. STANDARD INDEX 600, LATEST EDITION.
24. ALL SIGNING AND PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND IN ACCORDANCE WITH F.D.O.T. STANDARD INDEXES 11860, 17346, AND 17352.
25. ALL EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE PROPOSED ROADWAY/SITE DEVELOPMENT SHALL BE REMOVED BY THE CONTRACTOR UTILIZING METHOD APPROVED BY THE COUNTY.
26. ALL STORM PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
27. ALL ROADWAY AND DRAINAGE CONSTRUCTION AND CONSTRUCTION WITHIN NASSAU COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE NASSAU COUNTY ROADWAY AND DRAINAGE STANDARDS -- ORDINANCE 99-17. THE CONTRACTOR NOTIFY ALL UTILITIES PRIOR TO CONSTRUCTION FOR VERIFICATION AND LOCATION OF ALL UTILITIES.
28. NASSAU COUNTY DEVELOPMENT REVIEW INSPECTOR SHALL BE CONTACTED 24 HRS PRIOR TO ALL NECESSARY SITE WORK INSPECTIONS AND 5 DAYS PRIOR TO THE FINAL INSPECTION.
29. CONTRACTOR TO HIRE QC OR INDEPENDENT CONTRACTOR DURING ALL ASPHALT WORK.
30. CONTRACTOR TO MAKE A CUT IN THE CURB AND GUTTER EVERY FIVE FEET.
31. CONTRACTOR WILL BE REQUIRED TO SCHEDULE A WALK THROUGH OF THE SITE WITH THE DEVELOPER AND THE COUNTY 11 MONTHS AFTER COMPLETION OF WORK. THE CONTRACTOR WILL ALSO BE RESPONSIBLE TO FIX ANY PROBLEMS SEEN FIT BY THE COUNTY AT THIS TIME AT THEIR OWN EXPENSE.

1. THE LOCATION OF ALL EXISTING UTILITIES, STRUCTURES AND IMPROVEMENTS SHOWN ON THE DRAWINGS IS BASED ON LIMITED INFORMATION AND MAY NOT HAVE BEEN VERIFIED. THE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AND FIELD VERIFY LOCATIONS OF EXISTING UTILITIES AND OTHER IMPROVEMENTS PRIOR TO COMMENCING ANY CONSTRUCTION. IF THE LOCATIONS SHOWN ARE CONTRARY TO THE ACTUAL LOCATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF THE DISCREPANCY. THIS DISCREPANCY SHOULD BE RESOLVED PRIOR TO COMMENCING CONSTRUCTION. IF THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING IN AREAS NEAR EXISTING UTILITIES AND IMPROVEMENTS AND SHALL BE RESPONSIBLE FOR AND SHALL REPAIR OR PAY FOR ALL DAMAGE MADE TO EXISTING UTILITIES OR OTHER IMPROVEMENTS. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL GRADES, INVERTS AND TYPE OF MATERIAL OF EXISTING UTILITIES TO WHICH HE SHALL CONNECT.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS, IF REQUIRED, TO THE ENGINEER FOR REVIEW AND APPROVAL, PRIOR TO SUBMITTAL TO THE COUNTY AND JEA, AND PRIOR TO PURCHASE OR CONSTRUCTION OF ANY UTILITY PIPE OR STRUCTURE.
3. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH COUNTY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
5. ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT TIME OF ACCEPTANCE.
6. ALL DRAINAGE STRUCTURES TO HAVE TRAFFIC BEARING GRATES.
7. UNSUITABLE MATERIALS UNDER WATER, SEWER PIPE, STORM PIPE OR STRUCTURES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL, PROPERLY COMPACTED.
8. ALL UNDERGROUND UTILITIES MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
9. ALL WATER AND SEWER CONSTRUCTION WITHIN THE COUNTY SHALL BE ACCOMPLISHED BY AN UNDERGROUND UTILITY CONTRACTOR LICENSED UNDER THE PROVISIONS OF CHAPTER 489 OF THE FLORIDA STATUTES.
10. SANITARY SEWER SERVICES SHALL BE 6" OR 8" PVC WITH A MINIMUM SLOPE OF 0.006 OR 0.004 FEET PER FOOT RESPECTIVELY AND SHALL BE TERMINATED AT THE BUILDING CLEANOUT AT THE DEPTH SHOWN ON THE PLANS.
11. WATER LINES SHALL HAVE A MINIMUM OF 36" COVER FROM FINISHED GRADE UNLESS OTHERWISE SHOWN. ALL WATER MAINS SHALL BE FLUSHED IN ACCORDANCE WITH AWWA C651 DISINFECTION STANDARDS. UNDER PAVEMENT AND IN COUNTY RIGHT-OF-WAY, THE MINIMUM DEPTH IS 36" UNDER PAVED AREAS AND 36" UNDER NON-PAVED AREAS FOR SANITARY SEWER MAINS AND WATER MAINS.
12. ALL POTABLE PVC PIPE 3 INCHES IN DIAMETER OR LESS SHALL BE LISTED AS NSF-PW AND SHALL BE MARKED AS SUCH.
13. WATER AND SEWER LINES ARE DESIGNATED TO FINISHED GRADES AND SHALL BE PROTECTED UNTIL FINISHED WORK IS COMPLETE.
14. A FULL UNCUT LENGTH OF WATER MAIN PIPE (USUALLY 20 FEET) SHALL BE CENTERED AT THE POINT OF CROSSING OF ALL WATER AND SEWER (INCLUDING STORM) LINES AT THE POINT OF CROSSINGS REGARDLESS OF VERTICAL SEPARATIONS.
15. IN THE CASE WHERE SOLVENT CONTAMINATION IS FOUND IN THE TRENCH, WORK WILL BE STOPPED AND THE PROPER AUTHORITIES SHALL BE NOTIFIED. WITH THE APPROVAL OF THE FLORIDA HEALTH DEPARTMENT, DUCTILE IRON PIPE, FITTINGS AND APPROVED SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE WILL EXTEND AT LEAST 100 FEET BEYOND ANY DISCOVERED SOLVENT.
16. IN REGARD TO THE REQUEST FOR A LETTER OF RELEASE TO PLACE THE POTABLE WATER CONSTRUCTION INTO SERVICE, THE BACTERIOLOGICAL SAMPLE POINTS WILL BE INDICATED IN RED ON THE RECORD OR AS-BUILT DRAWINGS. THE SAME NUMBERS WILL CORRESPOND TO THOSE ON THE BACTERIOLOGICAL SAMPLE LAB SHEETS.
17. THE RECORD OR AS-BUILT DRAWINGS SUBMITTED AT THE TIME OF REQUEST FOR A LETTER OF RELEASE TO PLACE THE CONSTRUCTION INTO SERVICE WILL CLEARLY DEPICT THE VERTICAL CLEARANCES BETWEEN WATER AND SEWER (INCLUDING STORM) LINES AT ALL CROSSINGS.
18. UNLESS OTHERWISE NOTED, ALL WATER MAINS SHALL BE PVC DR18, C-900 AND ALL WATER MAINS 2" OR SMALLER SHALL BE HDPE MANUFACTURED OF PE 4710 MEETING THE APPLICABLE STANDARDS OF ASTM D3350, ASTM D2239 AND NSF-14. HDPE TUBING SHALL BE COPPER TUBE SIZE SDR-9 AND INSETS SHALL BE 316 STAINLESS STEEL.
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 200 PSI WORKING PRESSURE AND 400 PSI TEST PRESSURE.
20. ALL WATER MAINS SHALL BE BACTERIOLOGICAL AND PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C-600 STANDARDS. NO CONNECTION TO EXISTING POTABLE WATER SYSTEM SHALL BE ALLOWED UNTIL ALL PROPOSED WATER LINES HAVE BEEN PRESSURE TESTED, DISINFECTED, AND CLEARED FOR SERVICE. THE ENGINEER MUST BE NOTIFIED 48 HOURS PRIOR TO PERFORMING THE PRESSURE TEST AND MUST BE PRESENT.
21. ALL FORCE MAINS SHALL BE BE PRESSURE TESTED AT 150 PSI FOR 2 HOURS IN ACCORDANCE WITH AWWA C-600 STANDARDS.
22. A UTILITY COMPANY PRECONSTRUCTION CONFERENCE MUST BE HELD PRIOR TO COMMENCEMENT OF WATER OR SEWER WORK. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO SCHEDULE THIS CONFERENCE.
23. THE CONTRACTOR SHALL AVOID 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 OF THE UTILITY A MINIMUM OF 48 HOURS IN ADVANCE OF ANY INTERRUPTION OF SERVICE.
24. ALL NEW AND/OR RELOCATED WATER MAIN PIPES 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 AWWA STANDARDS. ALL NEW AND/OR RELOCATED WATER 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.
25. CONNECTION IS CONTINGENT UPON CONSTRUCTION, DEDICATION AND FINAL ACCEPTANCE OF THE WATER TRANSMISSION SYSTEM AND SEWER COLLECTION SYSTEM WITHIN THE LIMITS OF THIS PROJECT.
26. WATER AND SEWER CAPACITY FEES SHALL BE REQUIRED AT TIME OF METER APPLICATION. FEES WILL BE BASED ON TOTAL NUMBER OF PLUMBING FIXTURE UNITS SHOWN OR LISTED ON BUILDING PLANS.
27. ALL PIPES CONFORM TO THE APPROPRIATE AWWA STANDARDS AND SPECIFICATIONS.
28. ALL PIPING AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST JEA STANDARDS, DETAILS & MATERIALS MANUAL, CURRENT REVISION.
29. METER MUST BE APPLIED AND PAID FOR BY A LICENSED MASTER PLUMBER OR UTILITY CONTRACTOR. APPLICATION IS TO BE MADE AT 515 NORTH LAURA STREET, 1st FLOOR, CUSTOMER SERVICE BUILDING.
30. ALL WATER MAIN PRESSURE AND LEAKAGE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600-87 AND JEA'S APPLICABLE STANDARDS AND SPECIFICATIONS. ALL WATER MAIN DISINFECTION SHALL BE IN ACCORDANCE WITH AWWA C651 AND JEA'S APPLICABLE STANDARDS AND SPECIFICATIONS.
31. REMOVED.
32. THE TAPS ARE TO BE SCHEDULED 48 HOURS ON ADVANCE BY CONTACTING YOUR JEA INSPECTOR.
33. ALL NEW PRIVATE ONSITE FIRE HYDRANTS SHALL BE PAINTED RED.
34. A WATER SUPPLY FOR FIRE PROTECTION, EITHER TEMPORARY OR PERMANENT SHALL BE MADE AVAILABLE AS SOON AS COMBUSTIBLE MATERIALS ACCUMULATE.

1. THESE PLANS 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

- | | COMPANY | CONTACT / TELEPHONE # |
|------------------|---------|-----------------------------|
| WATER SERVICE | JEA | CHRIS BARRINGTON / 665-4081 |
| SEWER SERVICE | JEA | CHRIS BARRINGTON / 665-4081 |
| ELECTRIC SERVICE | FP&L | ROBERT HADDOCK / 225-3003 |
| TELEPHONE | AT&T | MARVIN FISHER / 727-1544 |
| CABLE | COMCAST | LARRY WINBURN / 380-7574 |

Project No.: 20-01-0065		Designed by: AMH		Drawn: AMH	
Date: June 26, 2024		Checked by: JEW		0.6x RCW	
Scale: 1" = ##'					
Sheet 2					

1" = 30'
GRAPHIC SCALE
0 15' 30' 60'

MAP SHOWING BOUNDARY AND TOPOGRAPHIC SURVEY OF:

PARCEL #1 (O.R. 1233 PG. 482)
A PORTION OF THE JOHN VAUGHN GRANT, SECTION 38, TOWNSHIP 2 NORTH, RANGE 27 EAST, NASSAU COUNTY, FLORIDA.
BEING THE REMAINDER OF THE LANDS RECORDED IN OFFICIAL RECORDS BOOK 81 PAGE 680, OF THE PUBLIC RECORDS OF THE AFORESAID COUNTY, SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
FOR A POINT OF REFERENCE, COMMENCE AT AN OLD AXLE AND RAYONIER CONCRETE MONUMENT LOCATED FOR THE SOUTHWEST CORNER OF SECTION 38, TOWNSHIP AND RANGE AFORESAID, AND RUN NORTH 23°07'40" WEST ALONG THE WESTERLY LINE OF SECTION 38, ALSO BEING THE EASTERLY R/W LINE OF MINER ROAD (A 60 FOOT RIGHT-OF-WAY) A DISTANCE OF 3518.0 FEET TO THE POINT OF BEGINNING.
FROM THE POINT OF BEGINNING THUS DESCRIBED CONTINUE NORTH 23°07'40" EAST, A DISTANCE OF 243.92 FEET, THENCE NORTH 66°23'42" EAST, A DISTANCE OF 727.22 FEET, THENCE SOUTH 23°09'25" EAST, A DISTANCE OF 243.21 FEET, THENCE SOUTH 66°20'21" WEST, A DISTANCE OF 15.0 FEET, THENCE NORTH 66°22'20" EAST, A DISTANCE OF 168.61 FEET, RUN THENCE SOUTH 23°07'40" EAST, A DISTANCE OF 258.36 FEET; RUN THENCE SOUTH 66°22'20" WEST, A DISTANCE OF 168.61 FEET; RUN THENCE NORTH 23°07'40" WEST, A DISTANCE OF 243.36 FEET TO THE POINT OF BEGINNING.
THE PORTION OF LAND THUS DESCRIBED CONTAINS 4.066 ACRES MORE OR LESS.
THE NORTHERLY 15.0 FEET OF THE FOREGONE DESCRIBED LAND IS SUBJECT TO AN EASEMENT FOR INGRESS & EGRESS PURPOSES.

PARCEL #2 (O.R. 2009 PG. 927)
A PORTION OF THE JOHN VAUGHN GRANT, SECTION 38, TOWNSHIP 2 NORTH, RANGE 27 EAST, NASSAU COUNTY, FLORIDA.
SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR A POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SECTION 38 AFORESAID, AND RUN NORTH 23°07'40" WEST ALONG THE WESTERLY LINE OF SAID SECTION 38, AFORESAID, AND RUN THENCE NORTH 23°07'40" WEST ALONG THE WESTERLY LINE OF SAID SECTION 38, AFORESAID, AND RUN THENCE NORTH 66°22'20" EAST, A DISTANCE OF 726.39 FEET TO THE POINT OF BEGINNING.
FROM THE POINT OF BEGINNING THUS DESCRIBED RUN THENCE NORTH 23°07'40" WEST, A DISTANCE OF 15.0 FEET; RUN THENCE NORTH 66°22'20" EAST, A DISTANCE OF 168.61 FEET; RUN THENCE SOUTH 23°07'40" EAST, A DISTANCE OF 258.36 FEET; RUN THENCE SOUTH 66°22'20" WEST, A DISTANCE OF 168.61 FEET; RUN THENCE NORTH 23°07'40" WEST, A DISTANCE OF 243.36 FEET TO THE POINT OF BEGINNING.
TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS PURPOSES; SAID EASEMENT BEING A 30.0 FOOT STRIP OF LAND THAT LIES 15.0 FEET EASH SIDE OF AND ADJOINS THE FOLLOWING DESCRIBED LINE: BEGIN AT THE POINT OF BEGINNING OF THE FOREGONE DESCRIBED LANDS AND RUN SOUTH 66°22'20" WEST, A DISTANCE OF 726.39 FEET TO THE EASTERLY RIGHT OF WAY LINE OF MINER ROAD (A 60.0 FOOT RIGHT OF WAY) FOR THE TERMINATION POINT.

PARCEL #3 (O.R. 2230 PG. 1313)
A PORTION OF THE JOHN VAUGHN GRANT, SECTION 38, TOWNSHIP 2 NORTH, RANGE 27 EAST, NASSAU COUNTY, FLORIDA.
SAID PORTION BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR A POINT OF REFERENCE COMMENCE AT THE SOUTHWEST CORNER OF SECTION 38, AFORESAID, AND RUN THENCE NORTH 23°07'40" WEST ALONG THE WESTERLY LINE OF SAID SECTION 38, AFORESAID, AND RUN THENCE NORTH 66°22'20" EAST, A DISTANCE OF 3761.36 FEET; RUN THENCE NORTH 66°22'20" EAST, DEPARTING SAID SECTION LINE AND RIGHT-OF-WAY, A DISTANCE OF 263.14 FEET TO THE POINT OF BEGINNING.
FROM THE POINT OF BEGINNING THUS DESCRIBED CONTINUE NORTH 66°22'20" EAST, A DISTANCE OF 263.13 FEET TO A POINT DESIGNATED AS POINT "A", IN THIS DESCRIPTION; RUN THENCE NORTH 23°07'40" WEST, A DISTANCE OF 243.35 FEET; RUN THENCE SOUTH 66°22'20" WEST, A DISTANCE OF 263.13 FEET; RUN THENCE SOUTH 23°07'40" EAST, A DISTANCE OF 243.35 FEET TO THE POINT OF BEGINNING.
THE SOUTHERLY 15.0 FEET OF THE FOREGONE DESCRIBED LAND IS SUBJECT TO AN EASEMENT FOR INGRESS AND EGRESS PURPOSES.
TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS PURPOSES; SAID EASEMENT BEING A 30.0 FOOT STRIP OF LAND THAT LIES 15.0 FEET EASH SIDE OF AND ADJOINS THE FOLLOWING DESCRIBED LINE: BEGIN AT POINT "A" MENTIONED IN THE FOREGONE DESCRIPTION AND RUN SOUTH 66°22'20" WEST, A DISTANCE OF 526.27 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF MINER ROAD AFORESAID FOR THE TERMINATION POINT.

PARCEL #4 (O.R. 1002 PG. 1012 (D4))
OWNER: KAREN M. HAGANS
LATEST DEED: OR 1002 PG 1012 (D4)
N66° 23' 43"E 167.65'

PARCEL #5 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #6 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #7 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #8 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #9 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #10 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #11 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #12 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #13 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #14 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #15 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #16 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #17 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #18 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #19 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #20 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #21 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #22 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #23 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #24 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #25 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #26 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #27 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #28 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #29 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #30 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #31 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #32 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

PARCEL #33 (O.R. 2230 PG. 1313)
OWNER: CELEBRATION BAPTIST CHURCH OF YULEE
LATEST DEED: OR 2230 PG 1313 (D3)
N66° 18' 31"E 263.17'

Abbreviations

Abbreviation:	Definition:
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONV	COVERED
~CTV~	OVERHEAD CABLE TELEVISION LINES
(C)	CALCULATED
(D)	DEED
EP	EDGE OF PAVEMENT ELEVATION
EG	EDGE OF GRAVEL ELEVATION
ELEV	ELEVATION
ERCP	ELLIPTICAL REINFORCED CONCRETE PIPE
F.F. EL.	FINISHED FLOOR ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
IDENT	IDENTIFICATION
INV.	INVERT ELEVATION
LB	LICENSED BUSINESS NUMBER
LS	LICENSED SURVEYOR NUMBER
MTL	METAL
~OHE~	OVERHEAD ELECTRIC LINES
OR	OFFICIAL RECORD NUMBER
PG.	PAGE
PLS	PROFESSIONAL LAND SURVEYOR NUMBER
PVC	POLY-VINYL CHLORIDE
TC	TOP OF CURB ELEVATION
WI	WITH

Symbol Legend

Symbol	Denotes
○	CLEANOUT AS NOTED
■	CONCRETE MONUMENT AS NOTED
○	CONCRETE POWER POLE AS NOTED
○	ELECTRIC OUTLET
○	GUY ANCHOR
○	CABINET AS NOTED
○	IRON ROD AND CAP AS NOTED
○	LIGHT POLE AS NOTED
○	MAIL BOX
○	SEWER MANHOLE AS NOTED
○	MAG NAIL
○	IRON PIPE AS NOTED
○	POST AS NOTED
○	SPRINKLER HEAD
○	SINGLE POST SIGN AS NOTED
○	IRRIGATION VALVE AND WIRE BOX
○	WELL AS NOTED
○	WOOD POWER POLE AS NOTED
○	WATER VALVE

GENERAL NOTES:

- BEARINGS SHOWN HEREON ARE BASED ON DEED, RECORDED IN OFFICIAL RECORDS VOLUME 20009, PAGE 927, AND ARE REFERENCED TO THE WESTERLY RIGHT OF WAY LINE OF MINER ROAD AS BEING N 23° 07' 40" W.
- ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD. 88), AND ARE REFERENCED LOCALLY TO NGS BENCHMARK ELEVATION 143 PG BC0059, ELEVATION 39.40, BEING A BRASS ELEVATION DISK SET VERTICALLY IN THE FACE OF THE YULEE ELEMENTARY SCHOOL BUILDING WALL, STAMPED "M 143 1954". CONVERSION FACTOR FROM NAVD. 88 TO NGVD. 29 = +1.16'.
- THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF A TITLE COMMITMENT.
- UNDERGROUND IMPROVEMENTS AND UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY, EXCEPT AS SHOWN HEREON. LOCATION OF WATERLINE SHOWN HEREON FROM POINT WHERE IT GOES UNDER THE PARKING LOT WAS TAKEN FROM JEA AS-BUILTS PREPARED BY CODY'S PROFESSIONAL SURVEYING AND MAPPING INC PROJECT NUMBER 10709 DATED MARCH 24, 23009.

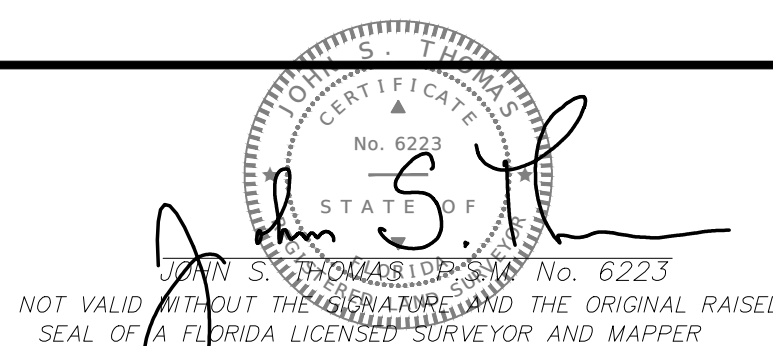
JOB No. 20-131
FILE No. C-861
PARTY CHIEF: R. Van Matre
F.B. ??
DRAWN BY: R. Rain
CHECKED BY: J. Thomas
SURVEY DATE: 09-25-2020
CAD FILE: P:\20\20-131 MERCY HILL CHURCH EXPANSION FOR CONNELLY WICKER\DWG\20-131 MERCY HILL CHURCH BNDY TOPG.DWG

REVISION:

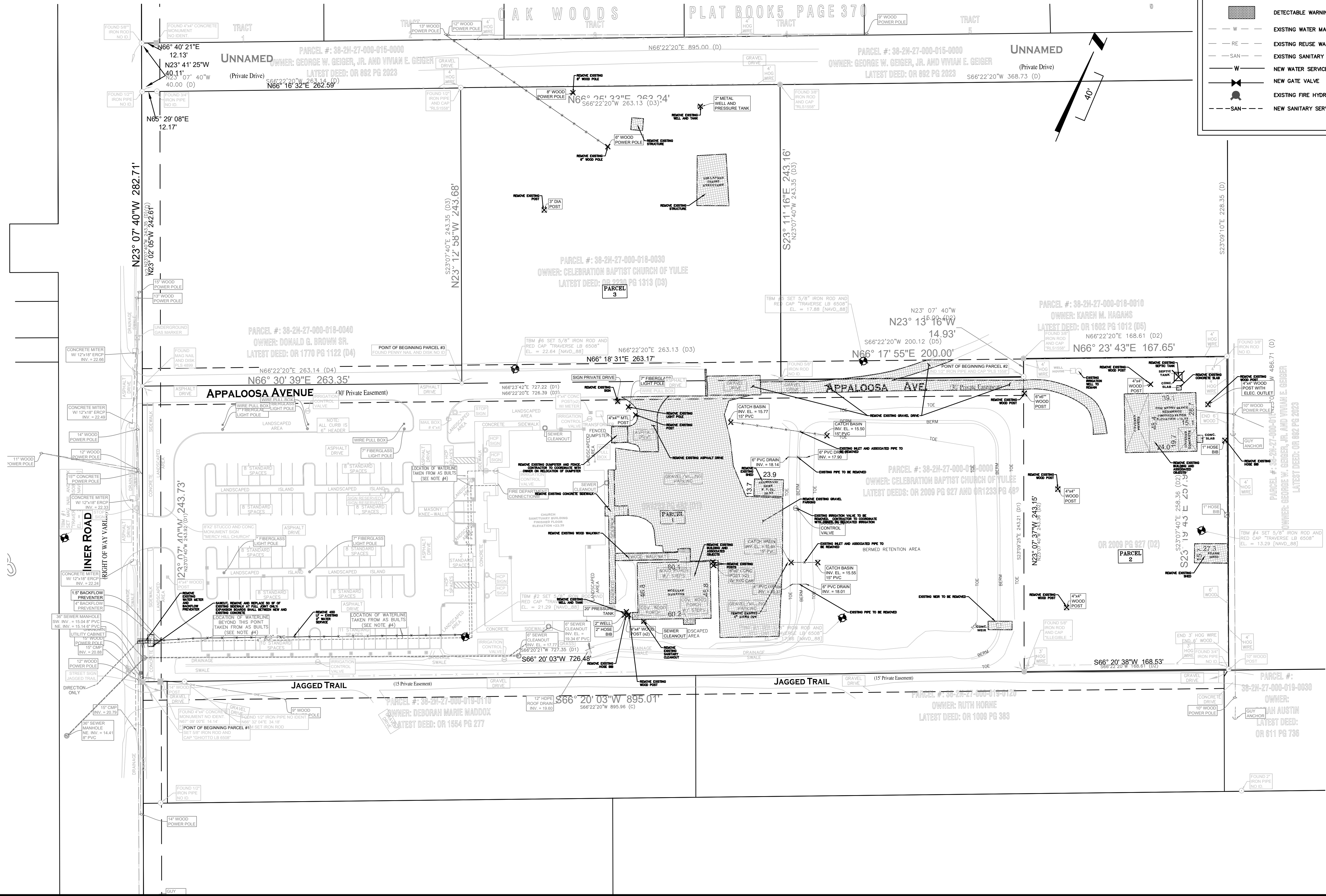
DATE: BY:

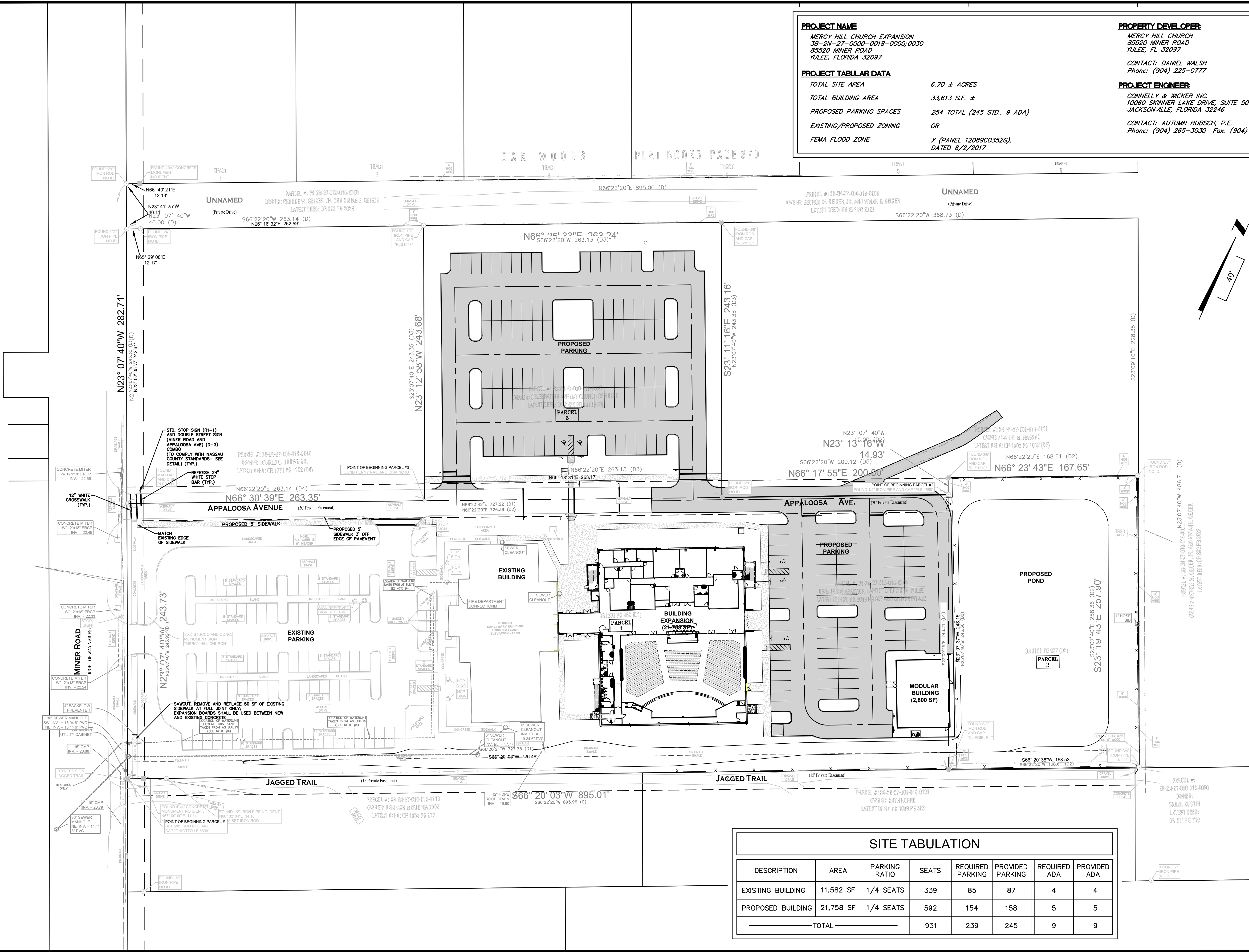


GHOTTO & ASSOCIATES, INC.
NATIONALLY CERTIFIED SURVEYORS & MAPPERS
CERTIFICATE OF AUTHORIZATION No. LB 6508
2426 PHILIPS HIGHWAY
JACKSONVILLE, FLORIDA 32207
(904) 886-0071
(904) 886-7174 FAX
www.GHOTTO.com



NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER





PROJECT NAME
MERCY HILL CHURCH EXPANSION
38-2N-27-0000-0018-0000,0030
85520 MINER ROAD
YULEE, FLORIDA 32097

PROPERTY DEVELOPER
MERCY HILL CHURCH
85520 MINER ROAD
YULEE, FL 32097

CONTACT: DANIEL WALSH
Phone: (904) 225-0777

PROJECT TABULAR DATA
TOTAL SITE AREA
TOTAL BUILDING AREA
PROPOSED PARKING SPACES
EXISTING/PROPOSED ZONING
FEMA FLOOD ZONE

6.70 ± ACRES
33,613 S.F. ±
254 TOTAL (245 STD., 9 ADA)
OR
X (PANEL 12089C0352G),
DATED 8/2/2017

SITE TABULATION							
DESCRIPTION	AREA	PARKING RATIO	SEATS	REQUIRED PARKING	PROVIDED PARKING	REQUIRED ADA	PROVIDED ADA
EXISTING BUILDING	11,582 SF	1/4 SEATS	339	85	87	4	4
PROPOSED BUILDING	21,758 SF	1/4 SEATS	592	154	158	5	5
TOTAL			931	239	245	9	9

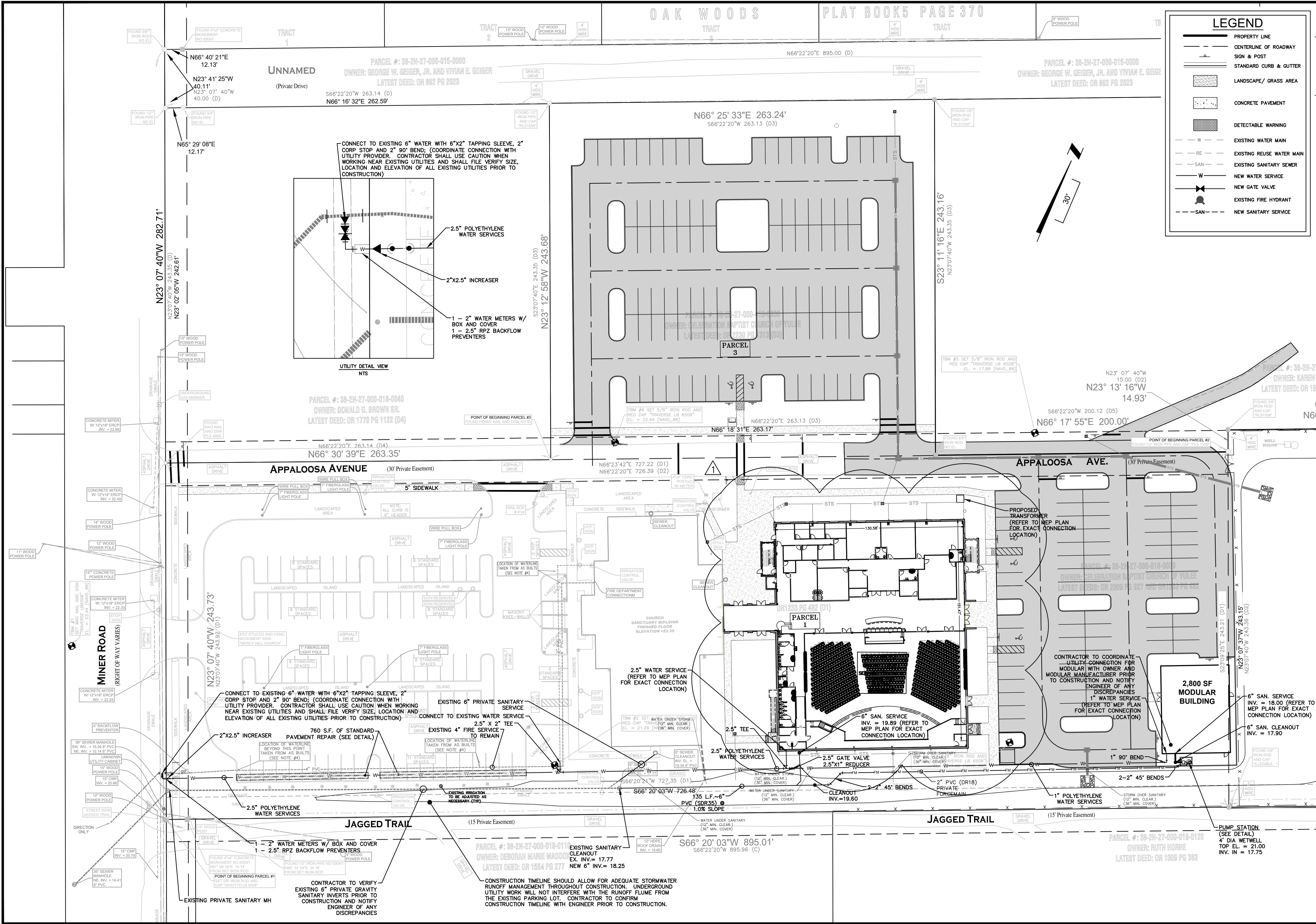
Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
10060 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cweng.com
C.A. Number: 3650 L.A. Number: LC26060311

OVERALL SITE PLAN

MERCY HILL CHURCH
EXPANSION
FLORIDA
PREPARED FOR
MERCY HILL CHURCH

Project No.: 20-01-0065
Designed by: AMH
Checked by: JEW
Date: June 26, 2024
Scale: 1" = 40'
Sheet 4

THIS DRAWING IS THE PROPERTY OF CONNELLY & WICKER INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.



OW Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
10060 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.oweng.com
C.A. Number: 3650 L.A. Number: LC2600311

No.	Date	Revision
1		AS/AM REISED BUILDING FOOTPRINT

**MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL**

UTILITY PLAN

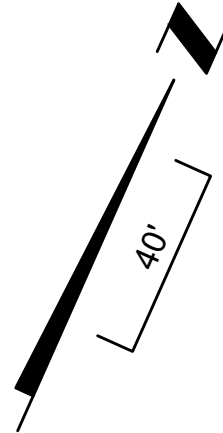
Project No.: 20-01-0065
Designed: AMH
Checked: JEW
Date: June 26, 2024
Scale: 1" = 30'

Drawn: AMH
O.C.: RCW

Autum Hubsch
PE No. 72939
Reg. Engineer

PREPARED FOR
MERCY HILL CHURCH

THIS DRAWING IS THE PROPERTY OF CONNELLY & WICKER INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.



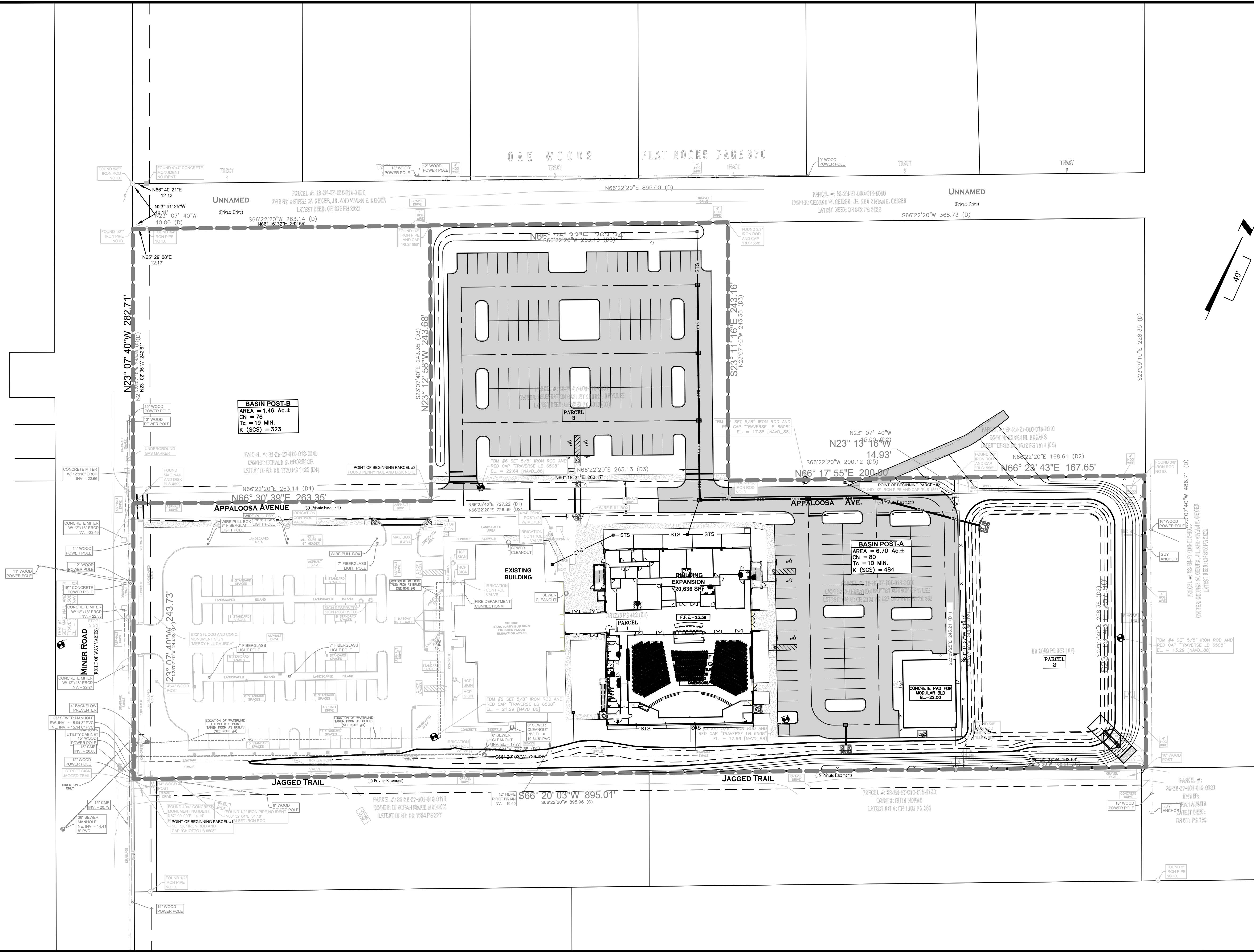
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

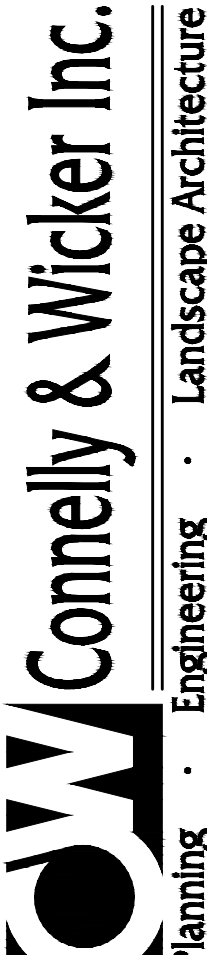
MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

AUTUMN HUBSCH
PE NO. 72939
Reg. Engineer

Project No.: 20-01-0065	
Designed: AMH	Drawn: AMH
Checked: JEW	O.C.: RCW
Date: July 9, 2024	
Scale: 1" = 40'	

Sheet 7A





Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
10060 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cweng.com
C.A. Number: 3650 L.A. Number: LC26000311

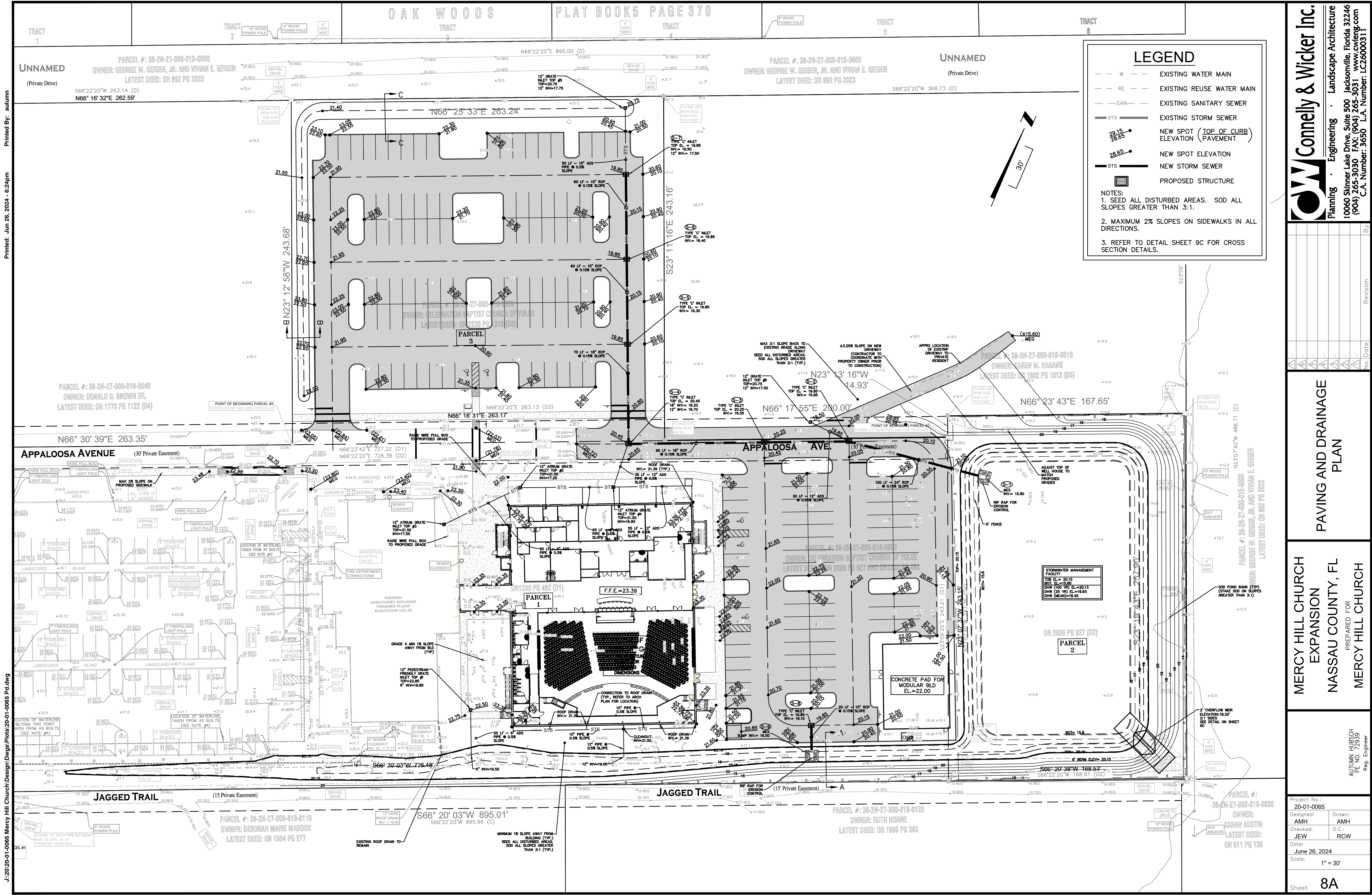
No.	Date	Revision	By

POST DEVELOPMENT
PLAN

MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

Project No.:
20-01-0065
Designed by:
AMH
Checked by:
JEW
Date:
July 9, 2024
Scale:
1" = 40'
Sheet
7B

Project No.:
20-01-0065
Designed by:
AMH
Checked by:
JEW
Date:
July 9, 2024
Scale:
1" = 40'
Sheet
7B



Connelly & Wicker Inc.

Planning · Engineering · Landscape Architecture

10060 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cweng.com
C.A. Number: 3650 L.A. Number: LC2600311

PAVING AND DRAINAGE
PLAN

MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

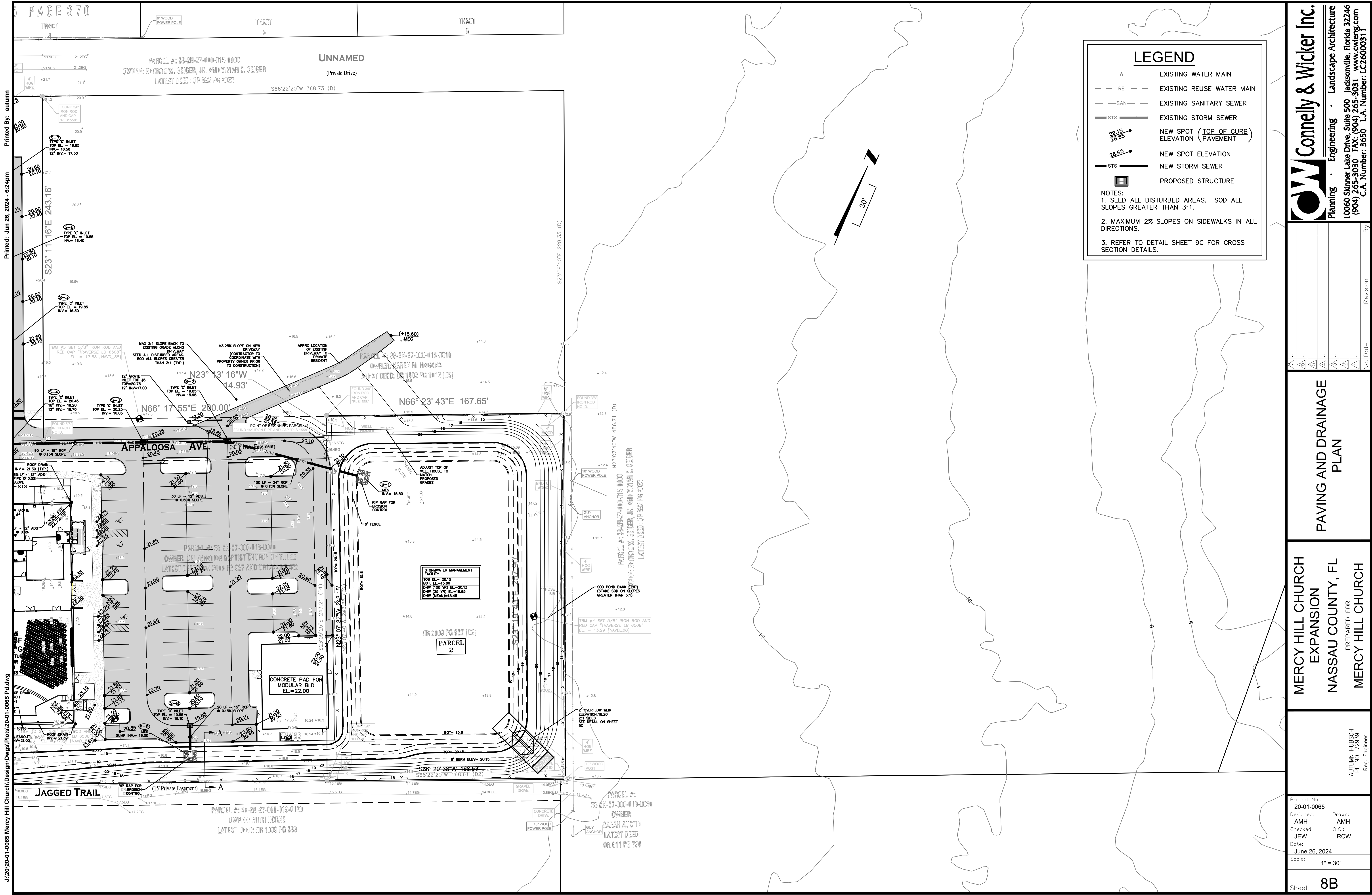
Project No.: 20-01-0065
Designed by: AMH
Checked by: JEW
Date: June 26, 2024
Scale: 1" = 30'

Drawn: AMH
O.C.: RCW

Autumn Hubsch
PE No. 72939
Reg. Engineer

Sheet 8A

THIS DRAWING IS THE PROPERTY OF CONNELLY & WICKER INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED ON REQUEST.



LEGEND

W

EXISTING WATER MAIN

RE

EXISTING REUSE WATER MAIN

SAN

EXISTING SANITARY SEWER

STS

EXISTING STORM SEWER

29.15

28.65

NEW SPOT (TOP OF CURB) ELEVATION

28.65

NEW SPOT ELEVATION

NEW STORM SEWER

PROPOSED STRUCTURE

NOTES:

1. SEED ALL DISTURBED AREAS. SOD ALL SLOPES GREATER THAN 3:1.

2. MAXIMUM 2% SLOPES ON SIDEWALKS IN ALL DIRECTIONS.

3. REFER TO DETAIL SHEET 9C FOR CROSS SECTION DETAILS.

CONNELLY & WICKER INC.

Planning · Engineering · Landscape Architecture

10060 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246

(904) 265-3030 FAX: (904) 265-3031 www.cweng.com

C.A. Number: 3650 L.A. Number: LC2600311

PAVING AND DRAINAGE PLAN

MERCY HILL CHURCH EXPANSION NASSAU COUNTY, FL

MERCY HILL CHURCH

Project No.: 20-01-0065

Designed by: AMH

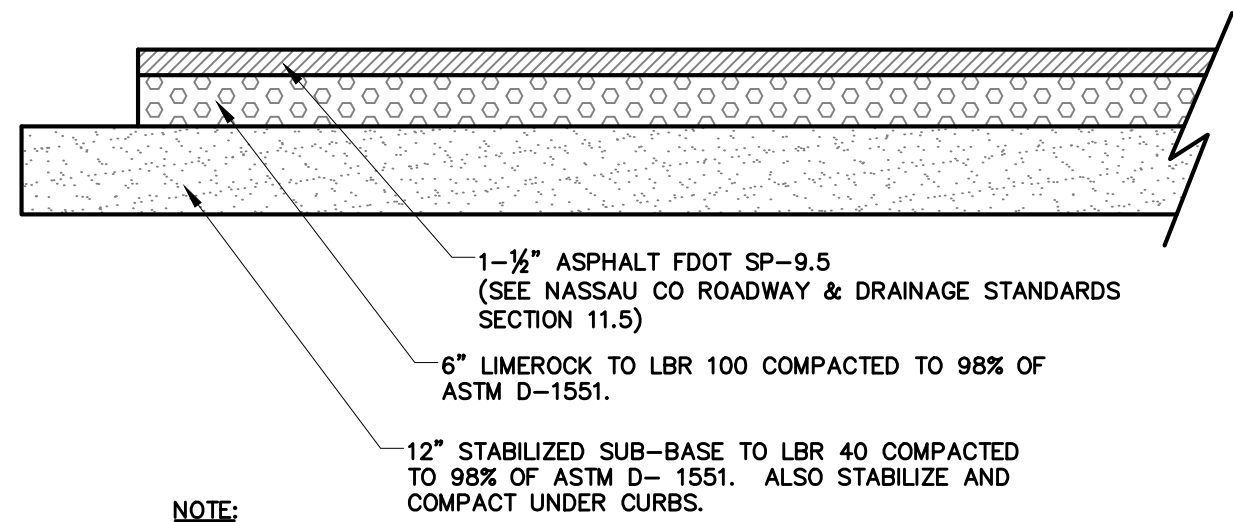
Checked by: AMH

Date: June 26, 2024

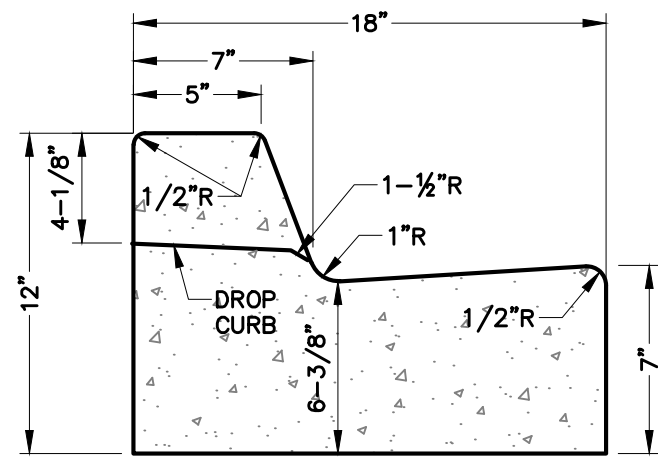
Scale: 1" = 30'

Sheet 8B

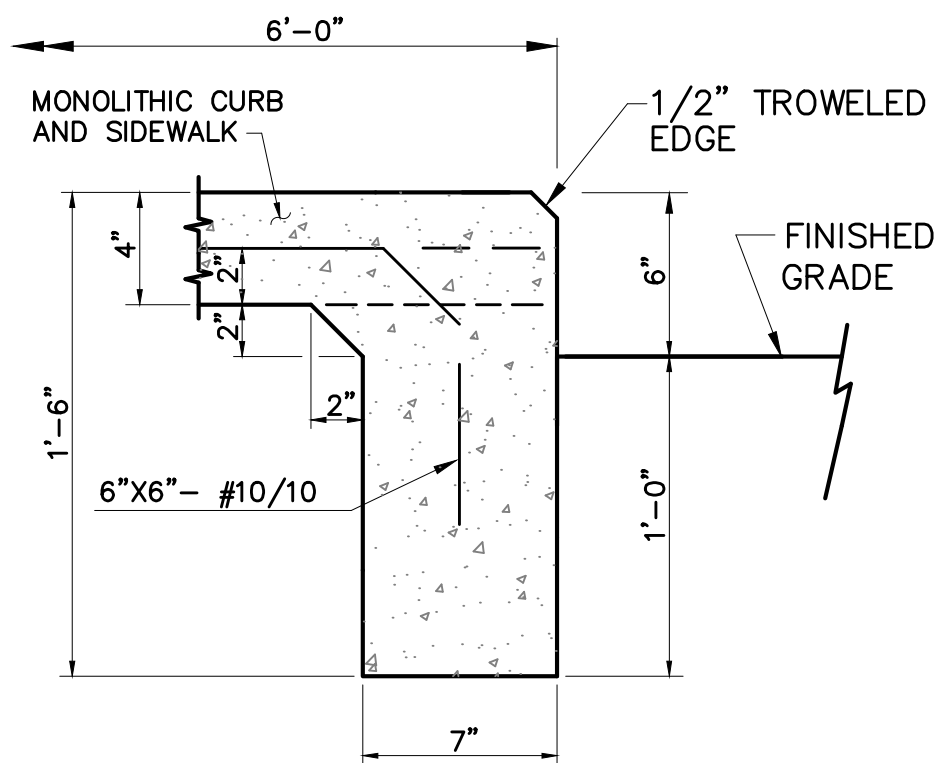
J:\20-01-0065 Mercy Hill Church Design Dwg's\Plots\20-01-0065 Pd.dwg Printed: Jun 26, 2024 - 6:24pm Printed By: autum



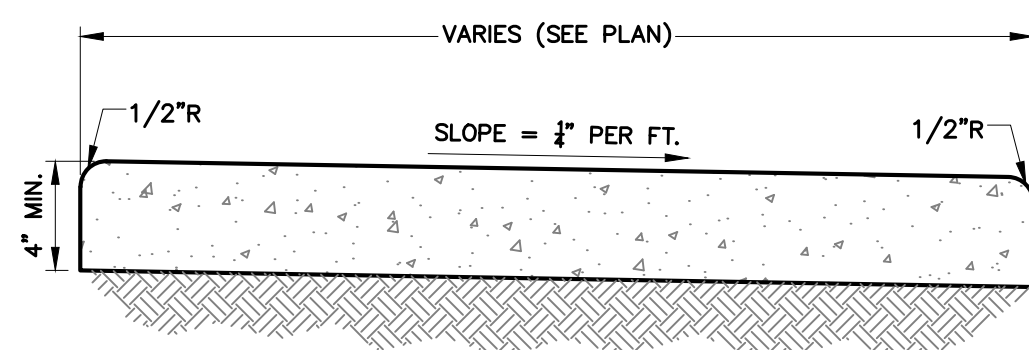
TYPICAL PAVEMENT SECTION
N.T.S.



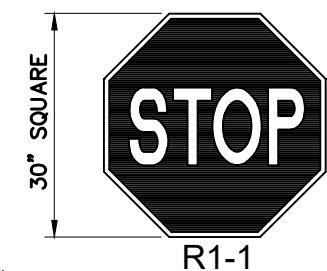
18" STD. CURB AND GUTTER
N.T.S.



MONOLITHIC CURB & SIDEWALK DETAIL
N.T.S.



CONCRETE SIDEWALK
N.T.S.

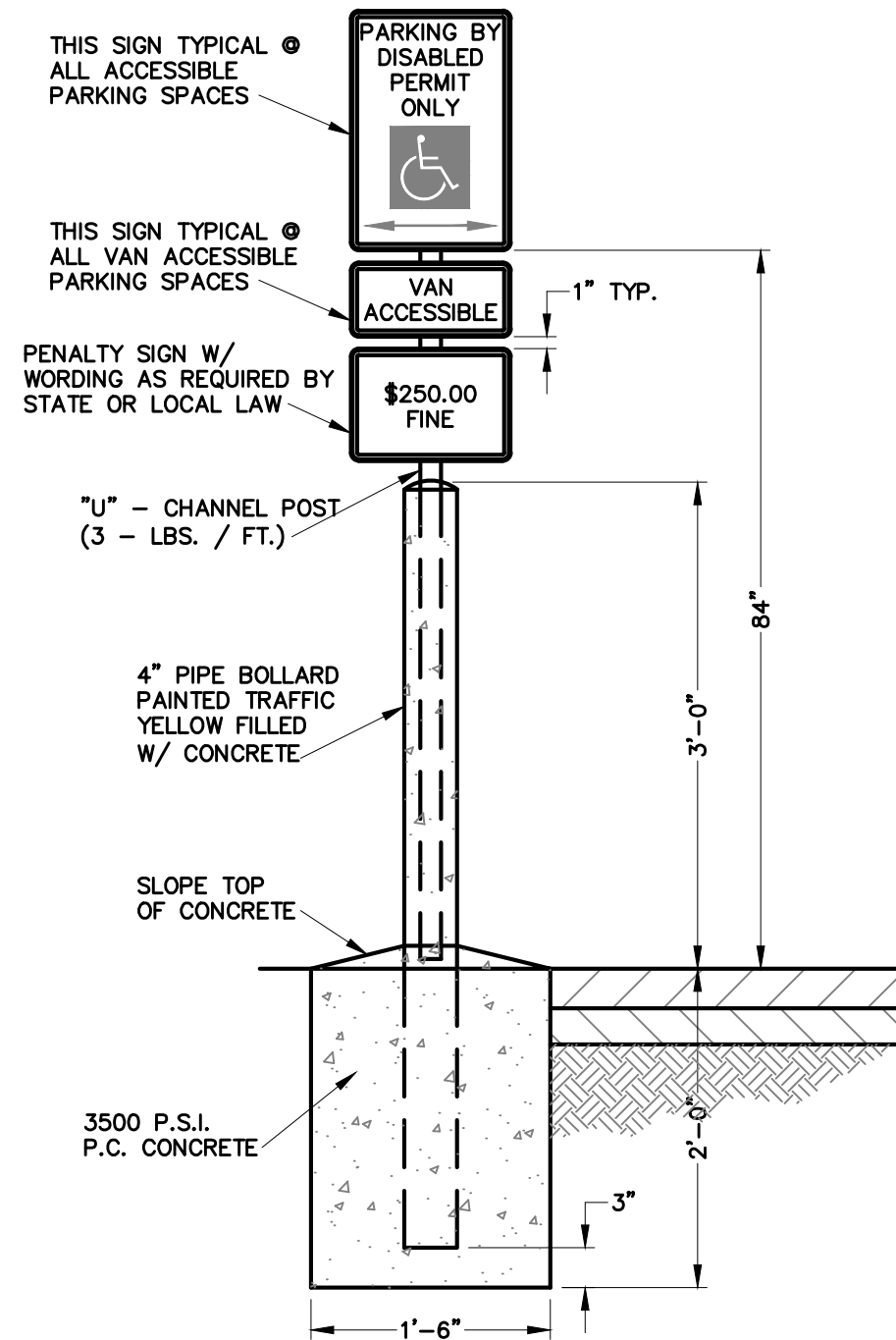


NOTE:
THE STOP SIGN SHALL BE OCTAGON WITH WHITE MESSAGE AND BORDER ON A RED BACKGROUND. IT SHALL BE OF HIGH-INTENSITY DIAMOND GRADE SHEETING MATERIAL.

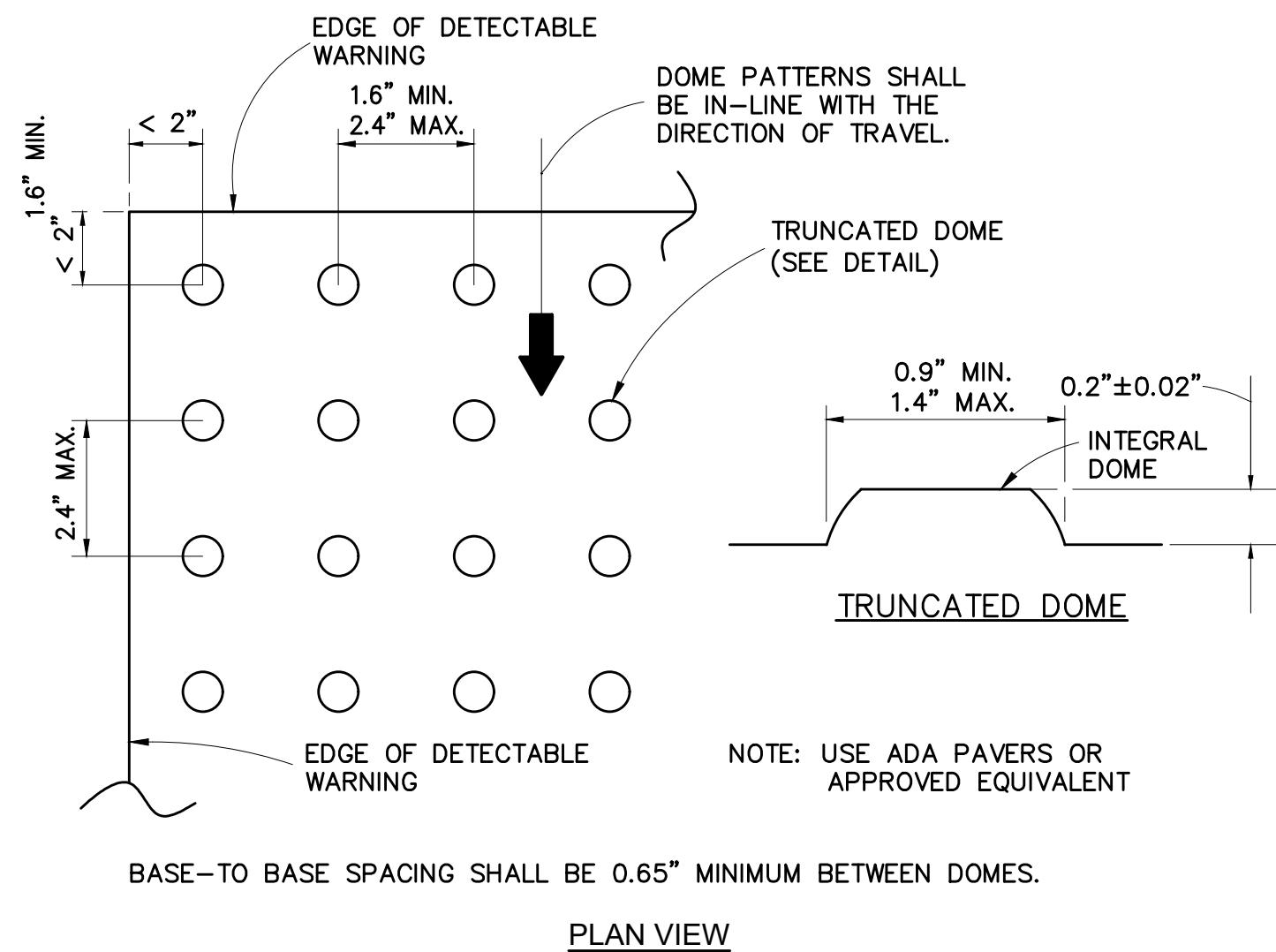
THE POSTS AND BRACKETS WILL BE PER FDOT STANDARD INDEX 11860 AND 11861.

ALL SIGNS INSTALLED SHALL CONFORM TO THE CRITERIA IN THE MUTCD AND FDOT STANDARDS AND SPECIFICATIONS.

STOP SIGN DETAIL
N.T.S.

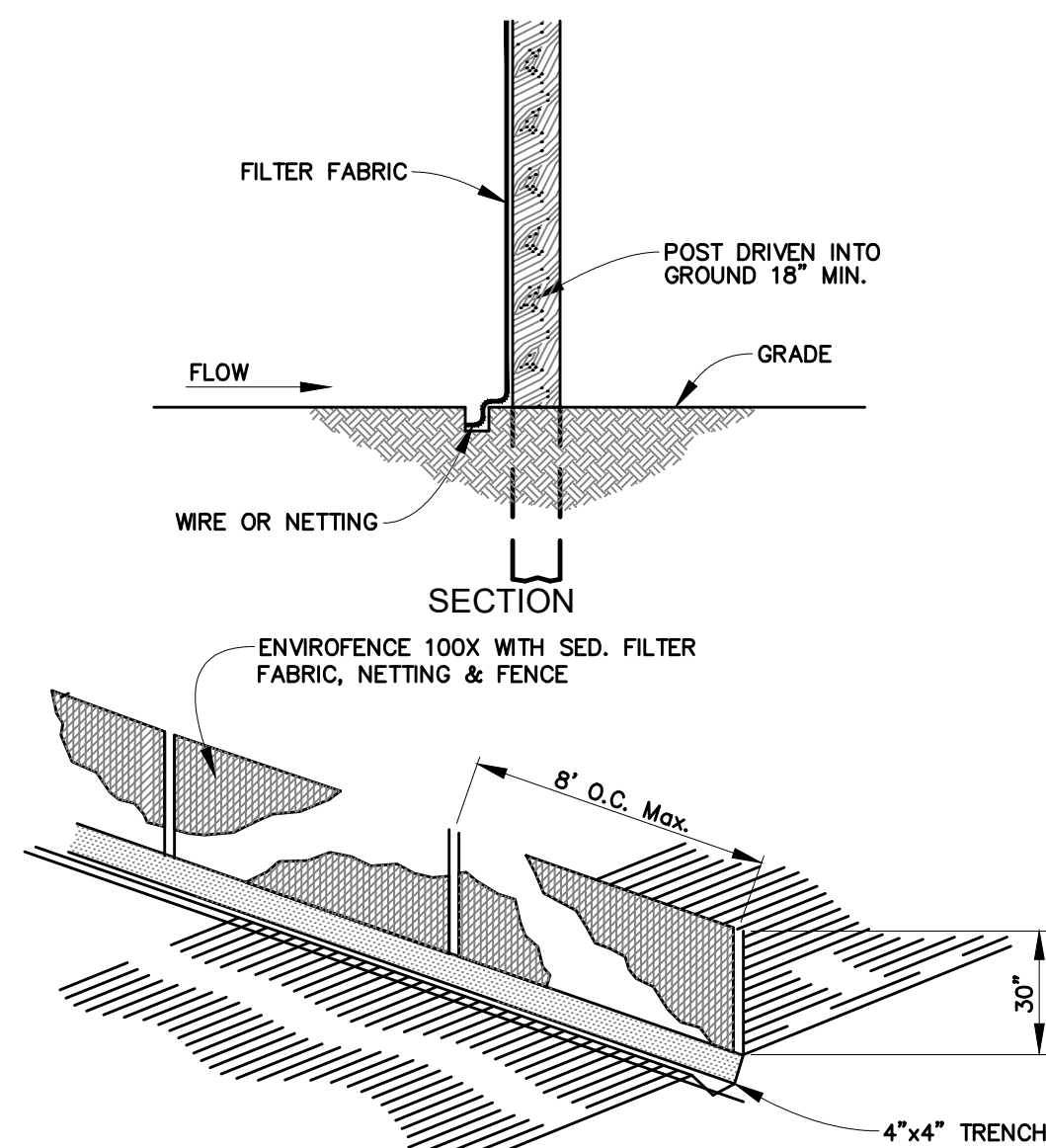


ACCESSIBLE PARKING SIGN
N.T.S.

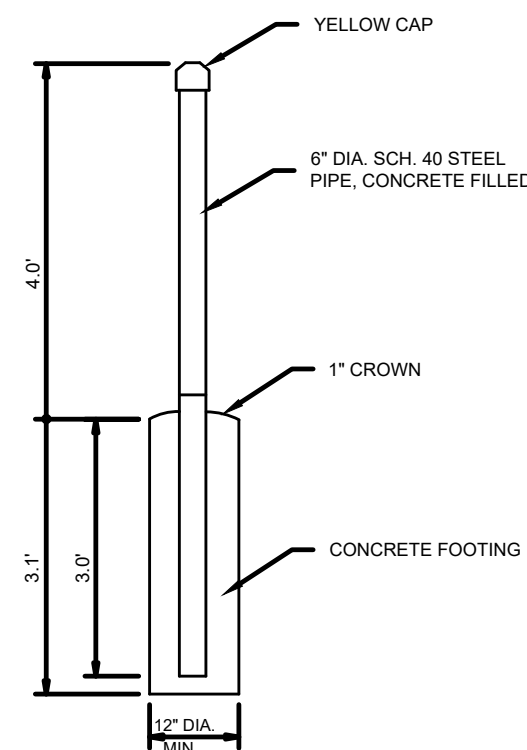


ALL SIDEWALK CURB RAMPS SHALL HAVE DETECTABLE WARNING SURFACES THAT EXTEND THE FULL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM THE BACK OF CURB

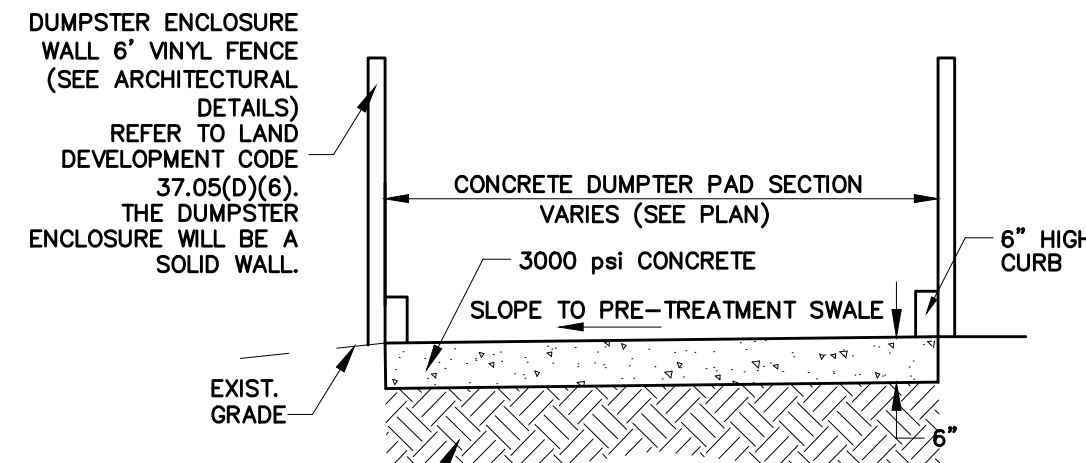
CURB RAMP DETECTABLE WARNING
N.T.S.



ELEVATION
SILT FENCE DETAIL
N.T.S.

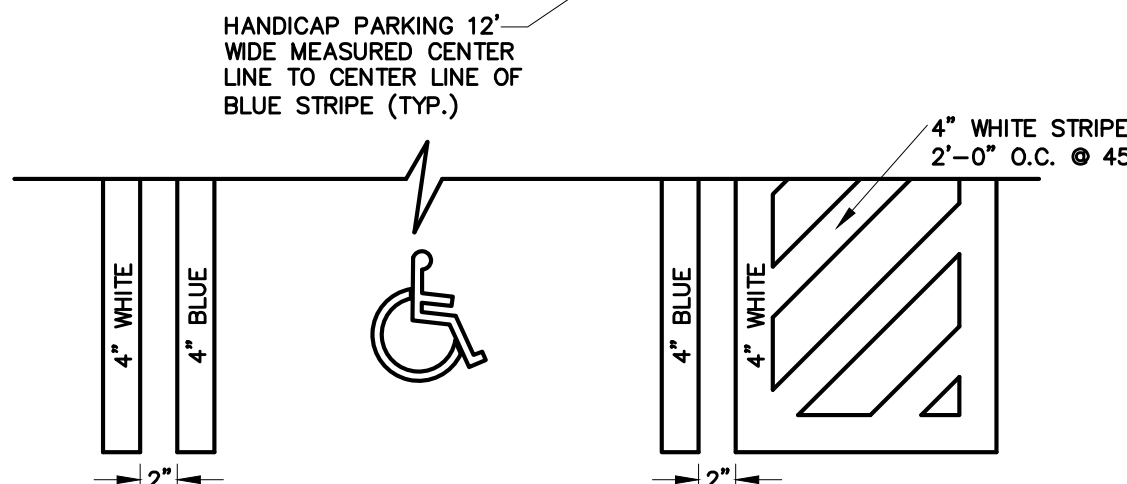
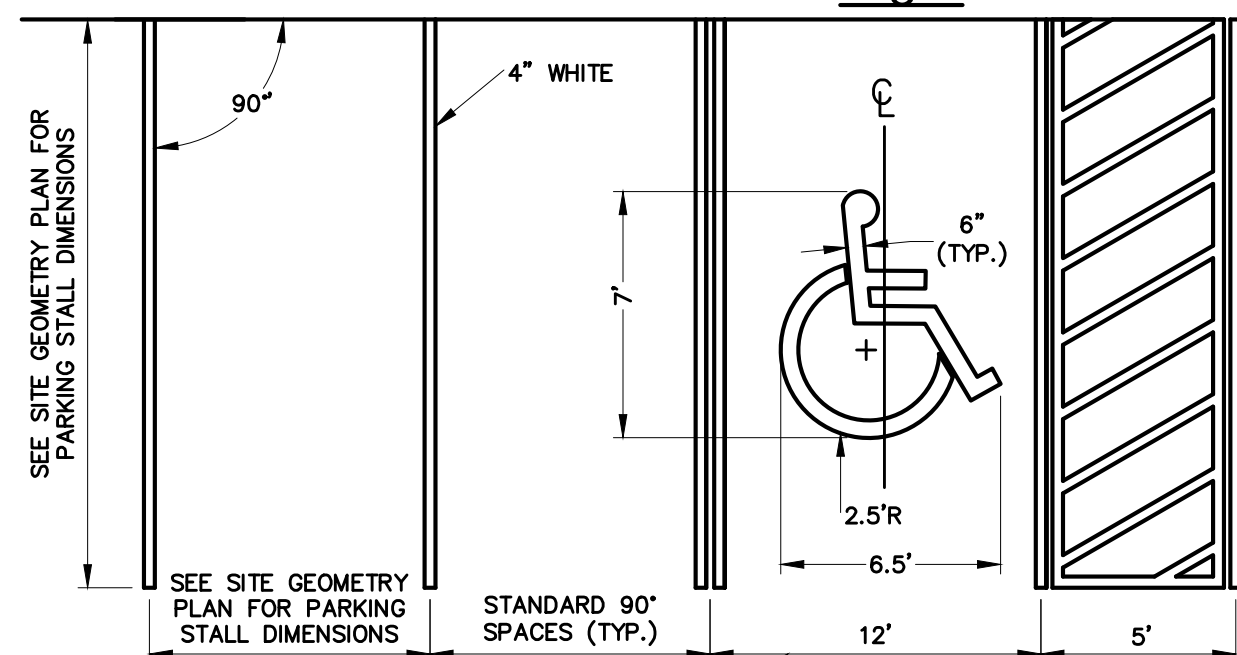


BOLLARD DETAIL
NOT TO SCALE

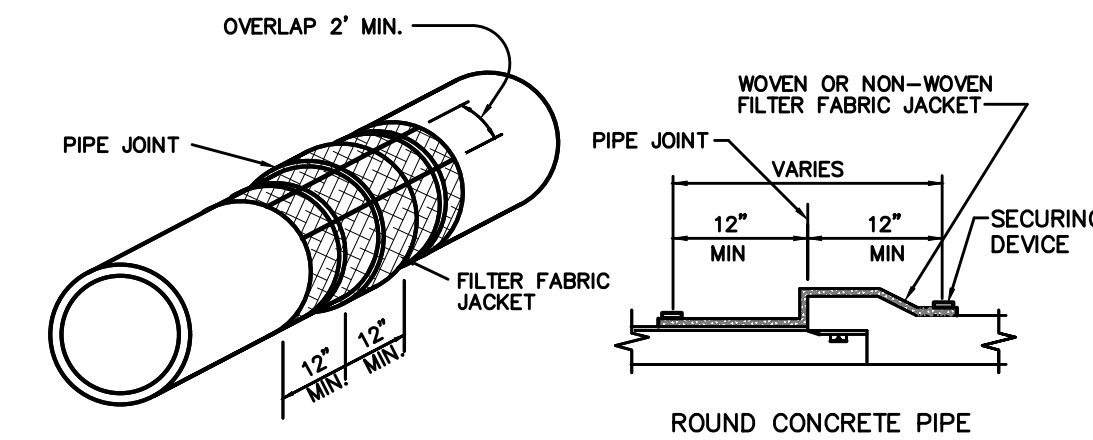


CONCRETE DUMPSTER PAD SECTION
N.T.S.

ALL SIGNS SHALL COMPLY W/ U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION LOCAL AND STATE CODES AND AS SPECIFIED. MOUNT SIGNS IN ACCORDANCE W/ MANUFACTURER'S INSTRUCTIONS AND PER STATE AND LOCAL CODES.

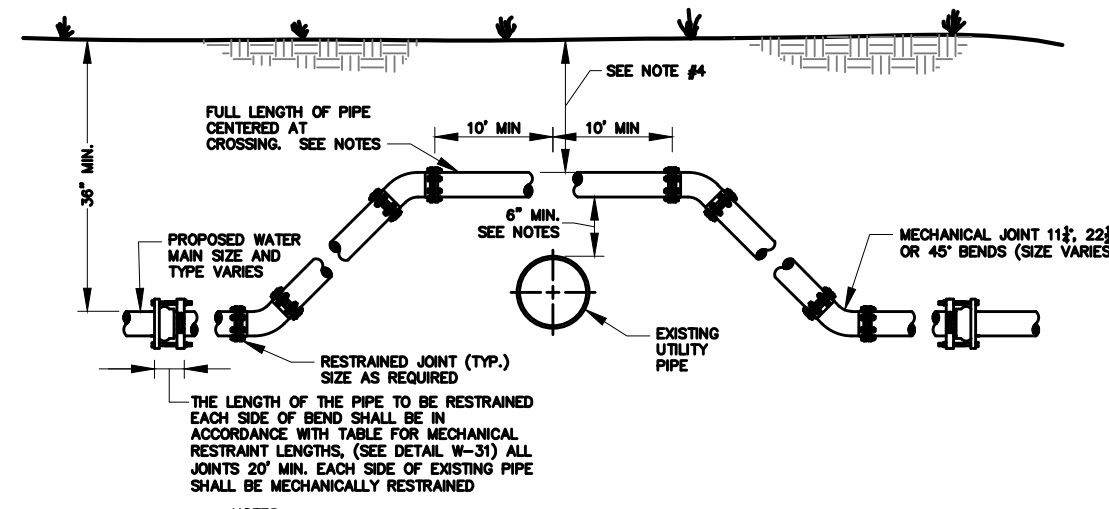


ACCESSIBLE STRIPING
HANDICAP STRIPING
N.T.S.



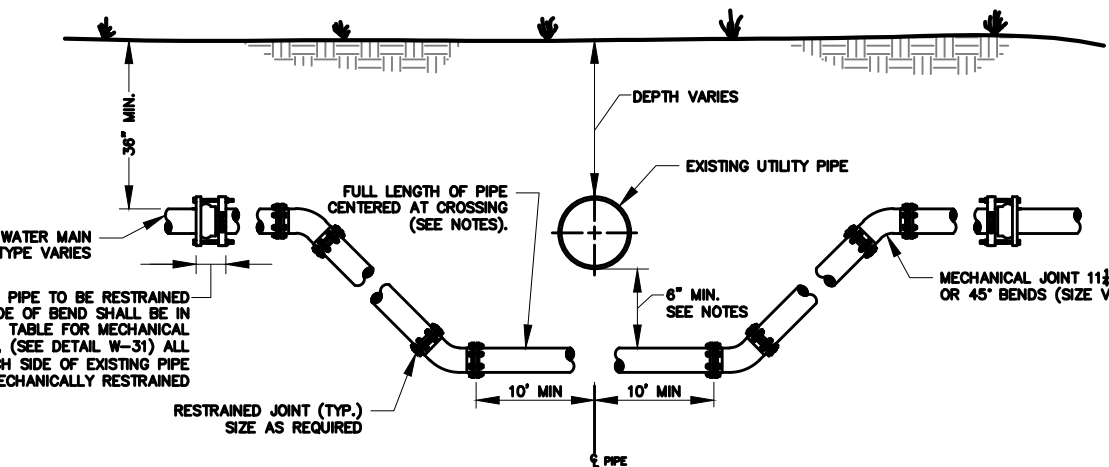
COST OF FILTER FABRIC TO BE INCLUDED IN COST OF PIPE CULVERTS.

FILTER FABRIC JACKET DETAIL
N.T.S.



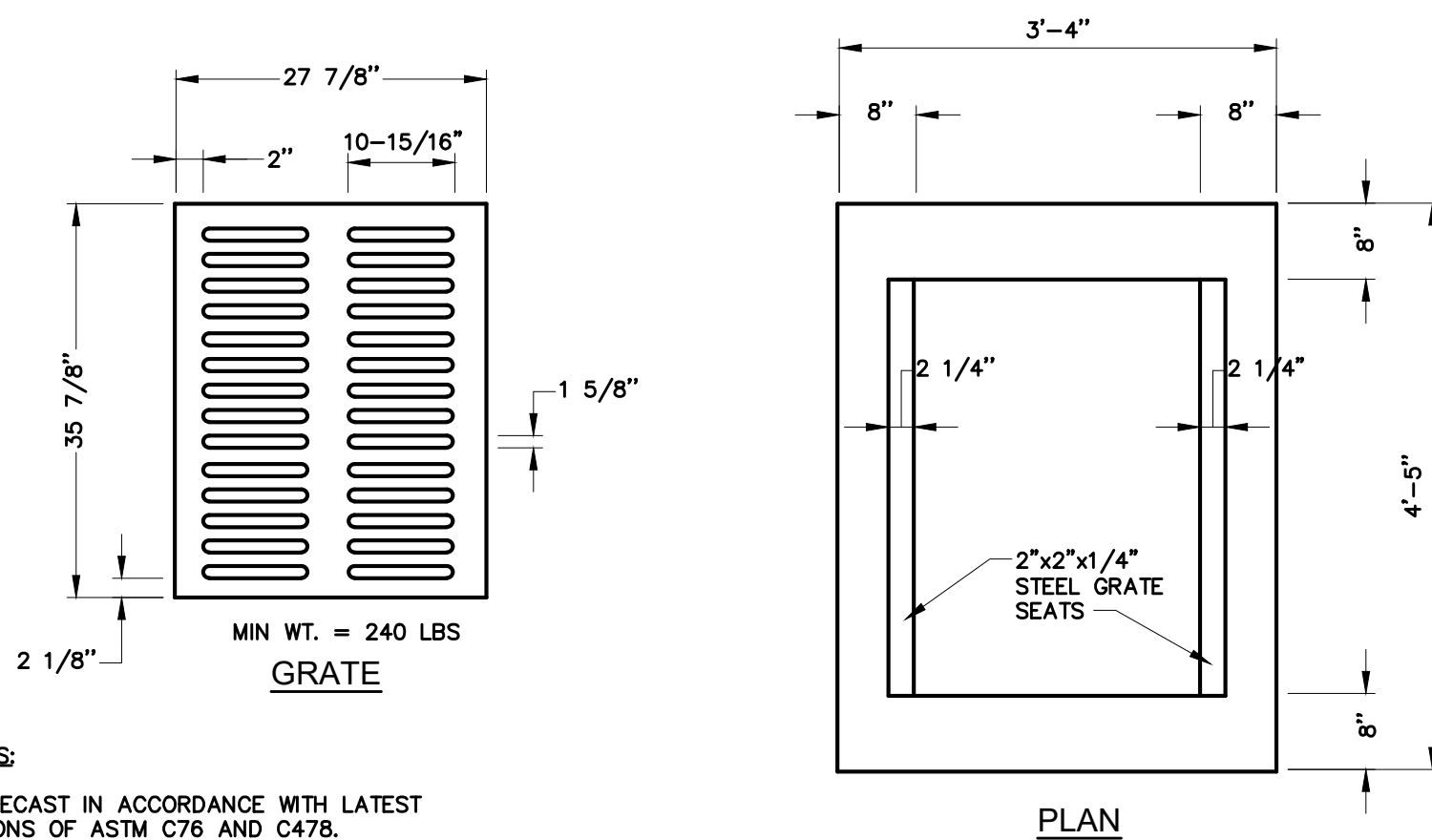
ADJUSTMENT OVER EXISTING UTILITY

N.T.S.

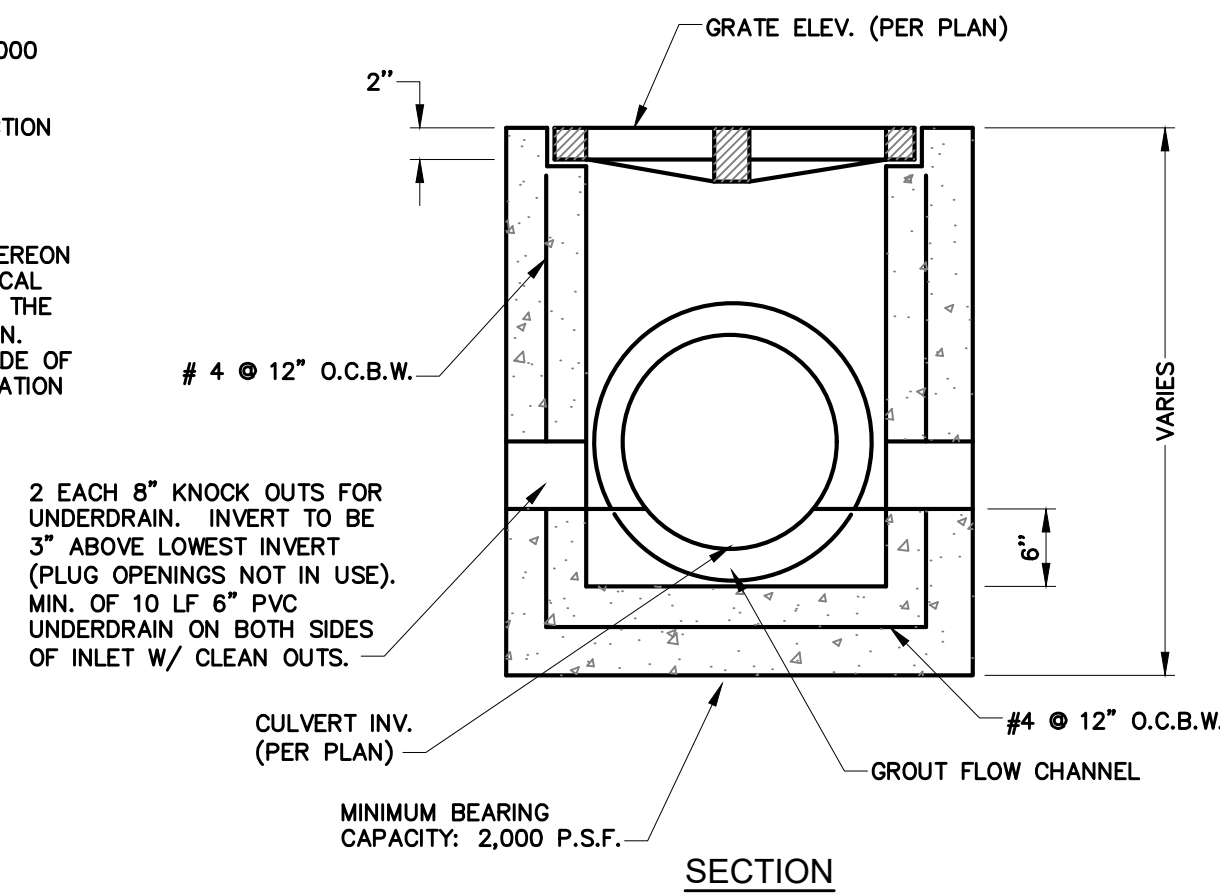


ADJUSTMENT UNDER EXISTING UTILITIES

N.T.S.

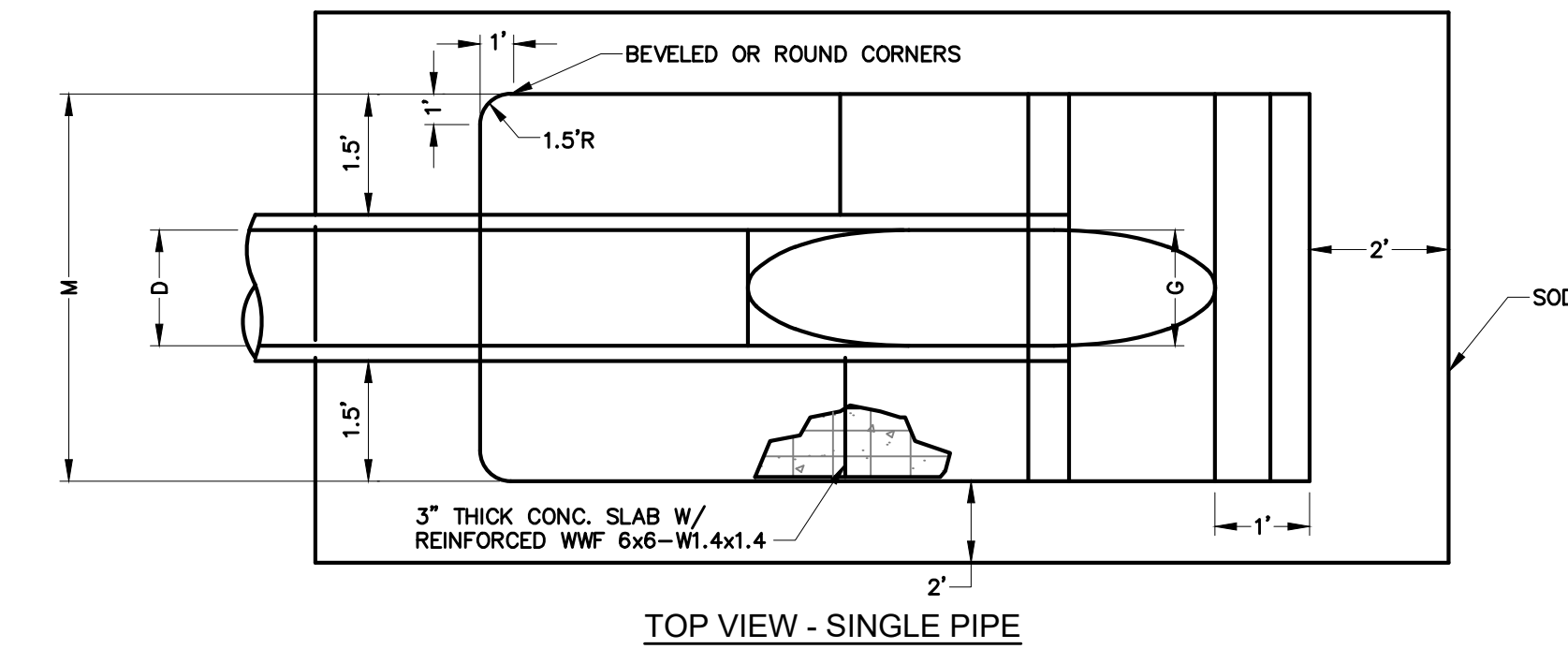


- NOTES:
1. PRECAST IN ACCORDANCE WITH LATEST EDITIONS OF ASTM C76 AND C478.
 2. GROUT OR "RAMNEK" JOINTS AS REQUIRED.
 3. CONCRETE DESIGN STRENGTH: 4,000 P.S.I.
 4. PIPE MUST NOT BE IN CONSTRUCTION JOINT.
 5. TYPE II CEMENT
 6. ROADWAY UNDERDRAIN SHOWN HEREON BASED ON THE PROJECT GEOTECHNICAL ENGINEERS UNDERDRAIN ANALYSIS. THE CONTRACTOR SHALL PROVIDE 20" MIN. UNDERDRAIN STUBOUTS ON EACH SIDE OF ALL STORM INLETS. FINAL DETERMINATION OF LIMITS OF UNDERDRAIN MAY BE ADJUSTED BASED ON TEST HOLE OBSERVATIONS DURING ROADWAY CONSTRUCTION.

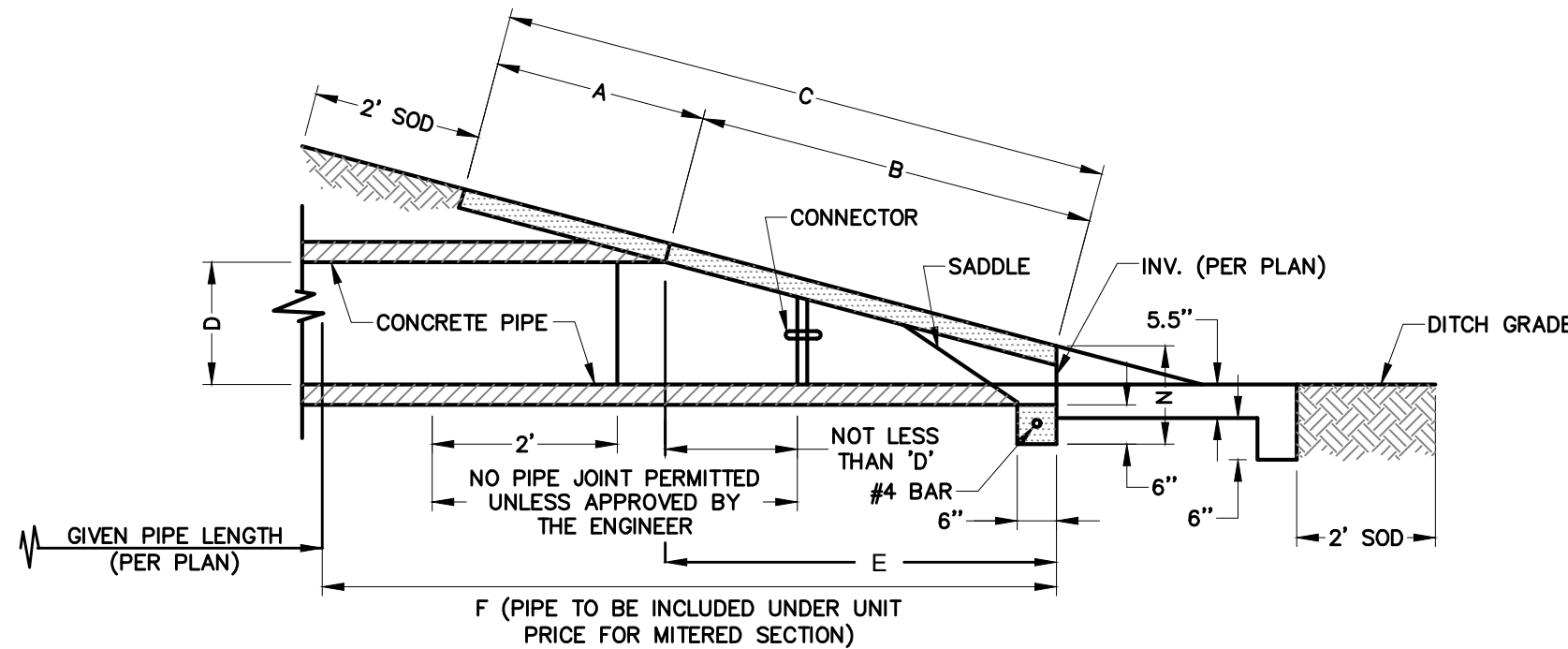


STORM SEWER TYPE "C" INLET

N.T.S.



TOP VIEW - SINGLE PIPE

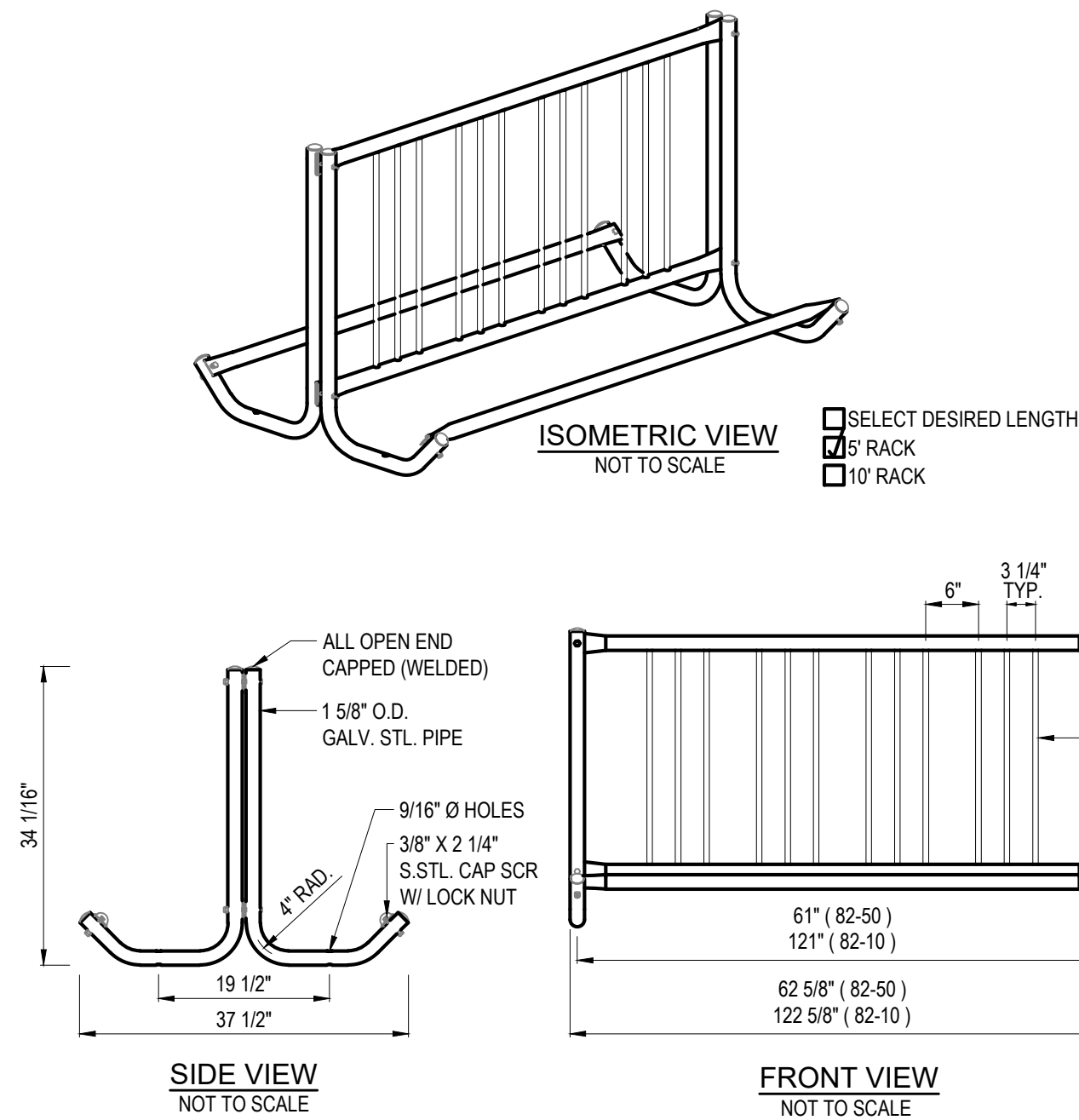


SECTION

D	A	B	C	E	F	G	M	N	X	CONC.(CY)	SOD (SY)
8"	2.5'	0.72'	3.22'	0.7'	4.0'	0.58'	3.75'	1.04'	-	0.52	7
15"	2.5'	3.09'	5.59'	3.0'	7.0'	1.23'	4.33'	1.04'	-	0.64	8
18"	2.5'	4.12'	6.62'	4.0'	8.0'	1.41'	4.58'	1.04'	-	0.69	9
24"	2.5'	6.18'	8.68'	6.0'	10.0'	1.73'	5.08'	1.04'	-	0.83	10
30"	2.5'	8.25'	10.75'	8.0'	12.0'	2.00'	5.58'	1.04'	-	0.96	11
36"	2.5'	10.31'	12.81'	10.0'	14.0'	2.24'	6.08'	1.04'	-	1.08	12

MITERED END SECTION

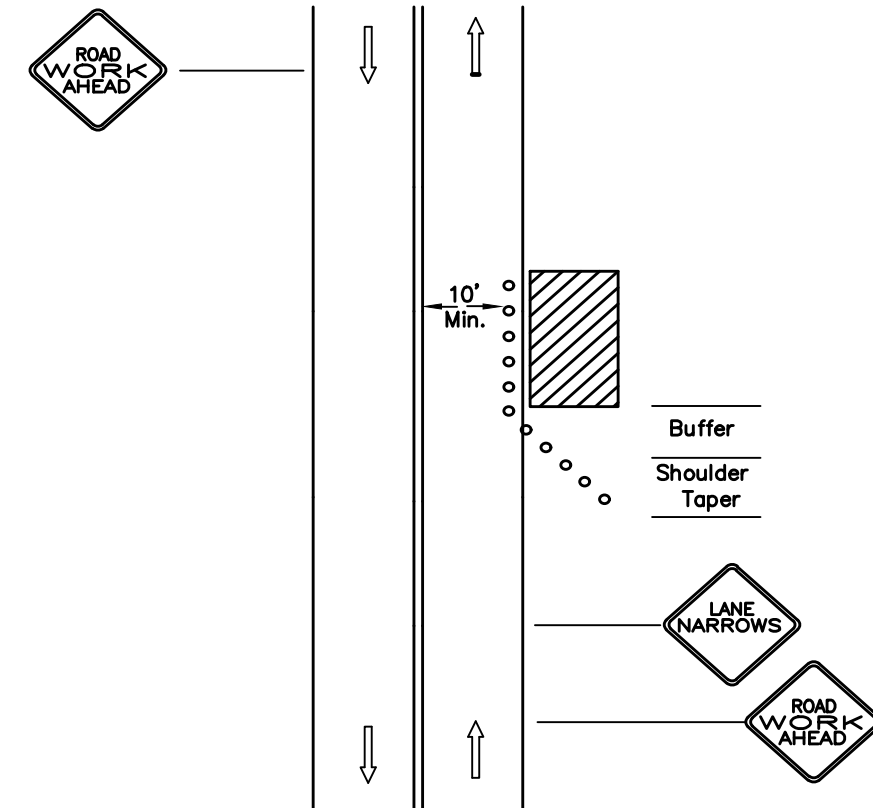
N.T.S.



BIKE RACK DETAIL

N.T.S.

Shoulder Work With Minor Encroachment (Within 2' of the Edge of Pavement)



CASE 2 M.O.T.

TAPER LENGTH CRITERIA

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE LANE, TWO WAY TRAFFIC TAPER	100 FT. MAXIMUM
DOWNSTREAM TAPER	100 FT. PER LANE

*FORMULAS FOR L ARE AS FOLLOWS

FOR SPEED LIMITS OF 40 MPH OR LESS

$L = WS \frac{2}{60}$

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT

FOR SPEED LIMITS OF 45 MPH OR GREATER

$L = WS$

SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS**		
	A	B	C
URBAN (low speed)	100	100	100
URBAN (high speed)	350	350	350
RURAL	500	500	500
Expressway/Freeway	1,000	1,500	2,640

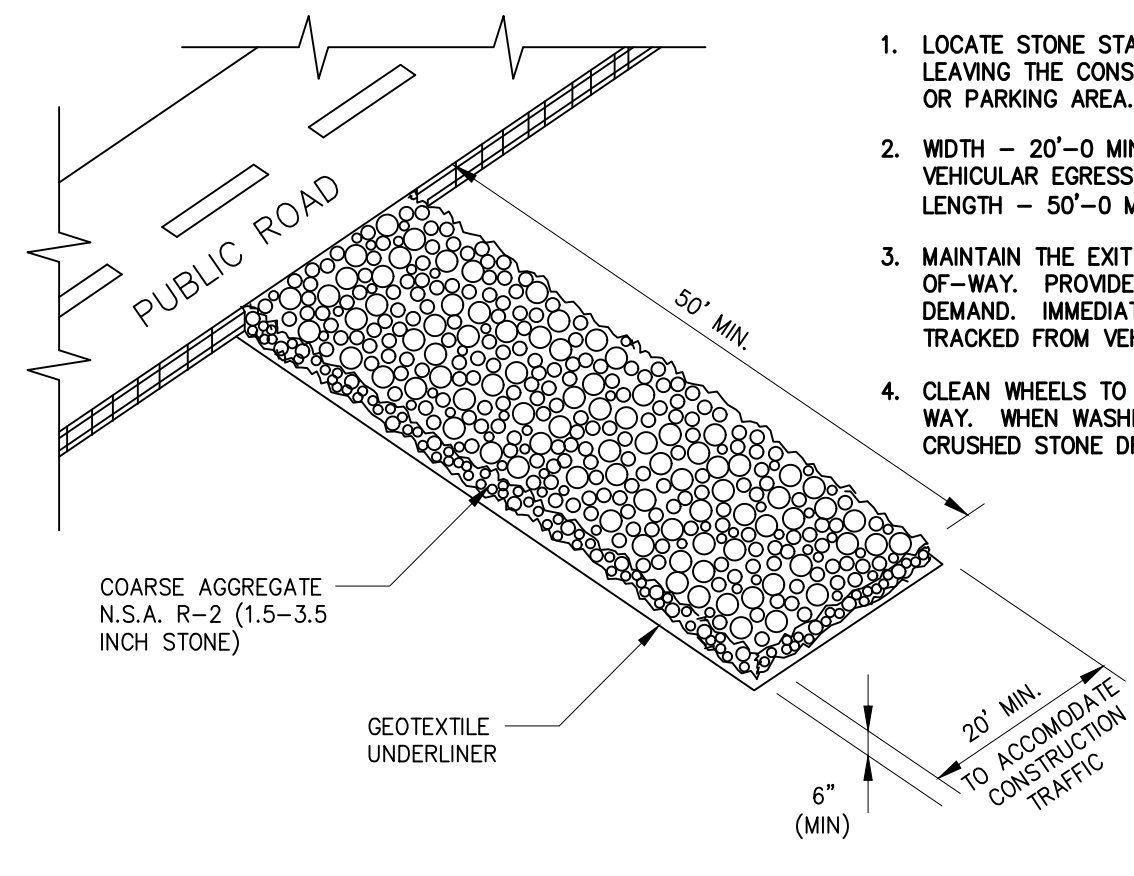
* SPEED CATEGORY TO BE DETERMINED BY HIGHWAY AGENCY
** DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADING A, B, AND C ARE THE DIMENSIONS SHOWN IN FIGURES 6H-1 THROUGH 6H-46 OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE THIRD SIGN IS THE FIRST ONE IN THE THREE-SIGN SERIES ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL ZONE).
NOTE: LONGITUDINAL DIMENSIONS ARE TO BE ADJUSTED TO FIT FIELD CONDITIONS. SEE FOOT INDEX No. 600

LEGEND

○	Channelizing Device
□	Flagger Symbol
⋈	Portable Sign Support
→	Arrow Display
⚡	High Level Warning Device
▨	Work Area
⚠	Warning Sign

MAINTENANCE OF TRAFFIC REQUIREMENTS

1. ANY MODIFICATIONS OF THIS MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE CITY OF JACKSONVILLE, TRAFFIC ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION.
2. PROJECT WORK HOURS ARE BETWEEN 7:00 AM TO 7:00 PM ON RESIDENTIAL STREETS, AND 8:00 AM TO 4:00 PM ON COLLECTOR OR ARTERIAL STREETS.
3. CONTRACTOR MUST MAINTAIN EXISTING SIGNING. IF SIGNS ARE DAMAGED DUE TO HIS ACTIVITY, THE CONTRACTOR IS REQUIRED TO REPLACE THEM IN ACCORDANCE WITH CURRENT CITY STANDARD SPECIFICATIONS IMMEDIATELY.
4. THIRTY FOOT RADI ARE REQUIRED AT ALL INTERSECTIONS WHERE THE ROADWAY IS REBUILT.
5. ACCESS TO ALL STREETS AND DRIVEWAYS TO BE MAINTAINED AT ALL TIMES.
6. IF SIDEWALKS ARE DISTURBED AND HAVE TO BE REPLACED, HANDICAP RAMPS ARE TO BE INSTALLED.
7. THE CONTRACTOR SHALL CONFINES HIS ACTIVE WORK AREA TO NO MORE THAN ONE BLOCK AT A TIME.
8. THE ROADWAY SHALL BE RESTORED TO AT LEAST A LIMELOCK SURFACE BEFORE IT IS REOPENED TO TRAFFIC, AND BEFORE THE CONTRACTOR MOVES ON TO THE NEXT CONSTRUCTION ZONE.
9. DUST CONTROL MEASURES SHALL BE IMPLEMENTED ON ALL UNPAVED SURFACES UNTIL PAVED.
10. WHERE CONSTRUCTION PHASING IS NOT SHOWN ON PLANS, OR IF CONTRACTOR WANTS TO ALTER THE PHASING SHOWN, CONTRACTOR IS TO SUBMIT PHASING PLAN WITH A PROPOSED CONSTRUCTION SCHEDULE TO TRAFFIC ENGINEERING PRIOR TO CONSTRUCTION
11. CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEERING DIVISION (387-8861) A MINIMUM OF 5 WORKING DAYS PRIOR TO IMPLEMENTATION OF THE M.O.T.
12. TRAFFIC SIGNAL VEHICLE LOOPS SHALL BE RESTORED TO PROPER OPERATION WITHIN 36 HOURS OF BEING DESTROYED OR DAMAGED. CONTACT TERRY SANDEN AT 387-8871 OR MASON BOYD AT 387-8867 A MINIMUM OF 48 HOURS PRIOR TO WORKING NEAR A SIGNALIZED INTERSECTION.



FDOT INDEX REFERENCES

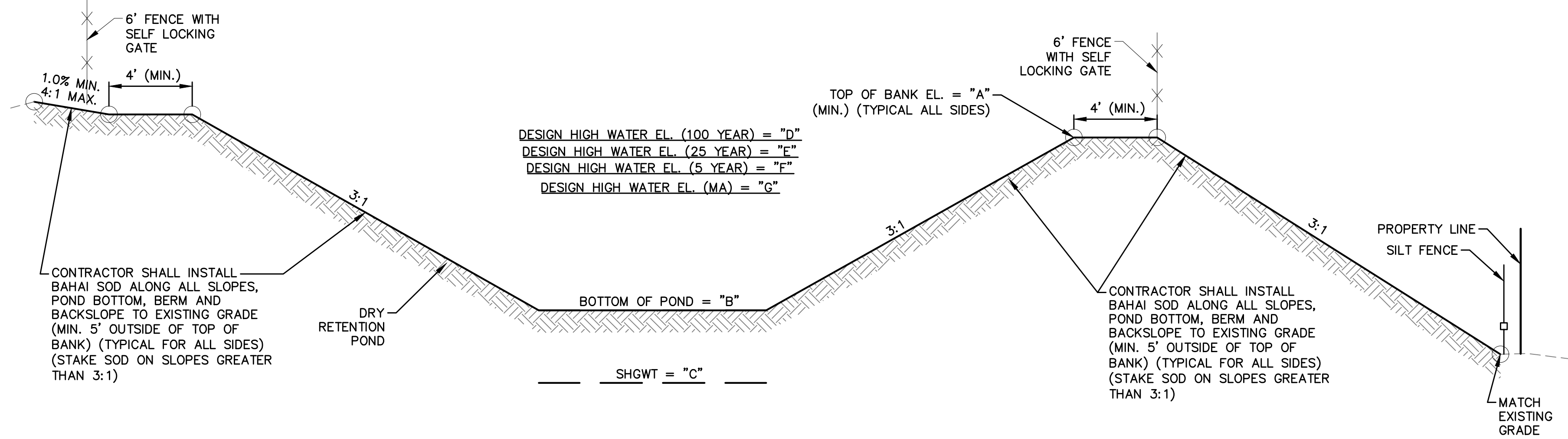
INDEX No.	DESCRIPTION
102	BALED HAY & SILT FENCE
103	TURBIDITY BARRIERS
280	FILTER JACKET
603	M.O.T.

**ALL INDEXES CAN BE FOUND AT
<http://www11.myfloridacounty.com/ddesign/DesignStandards/designstds.htm>

NOTES: COIR BALES ARE NOT ALLOWED IN NASSAU COUNTY.

TEMPORARY CONSTRUCTION EXIT DETAIL

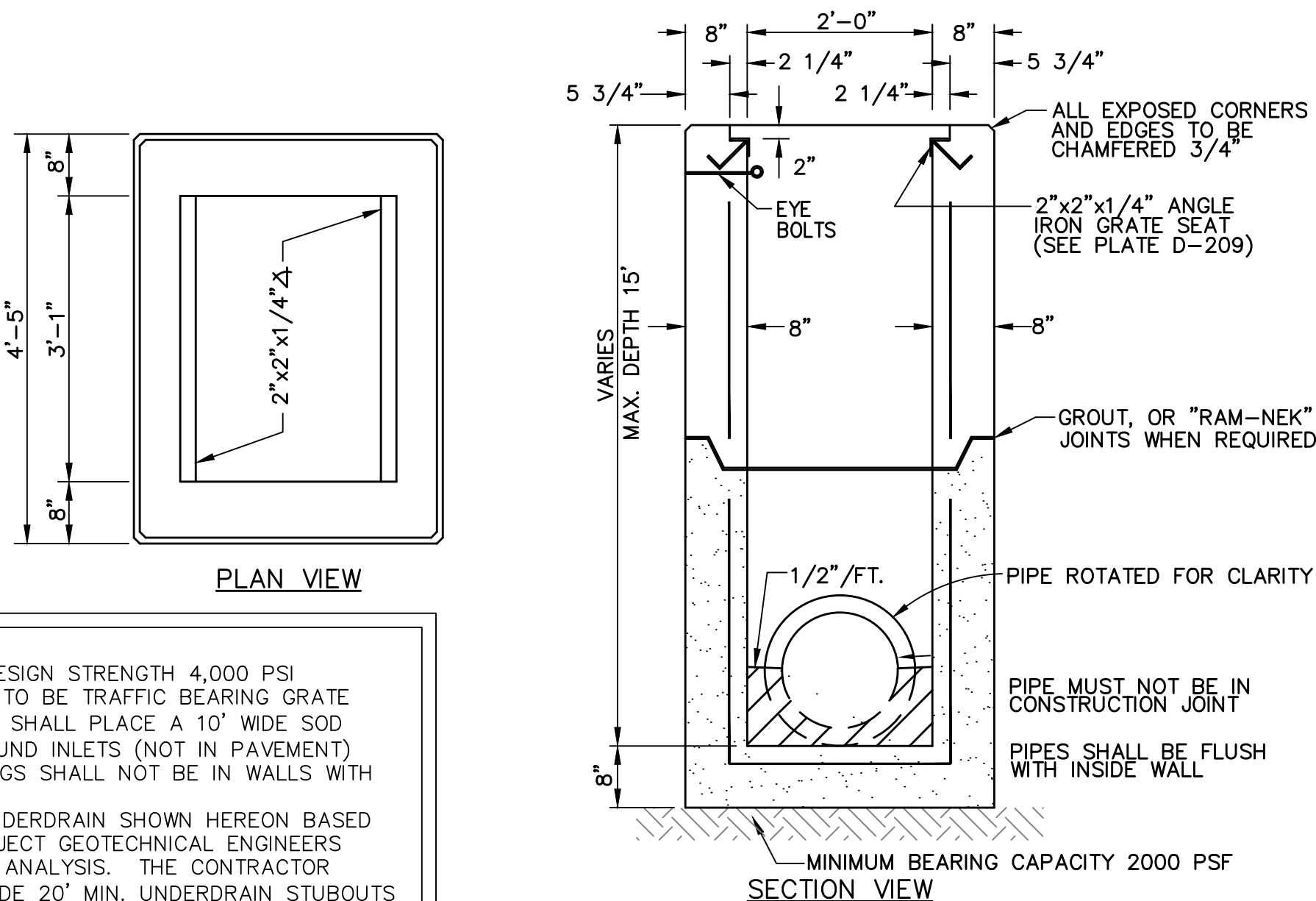
N.T.S.



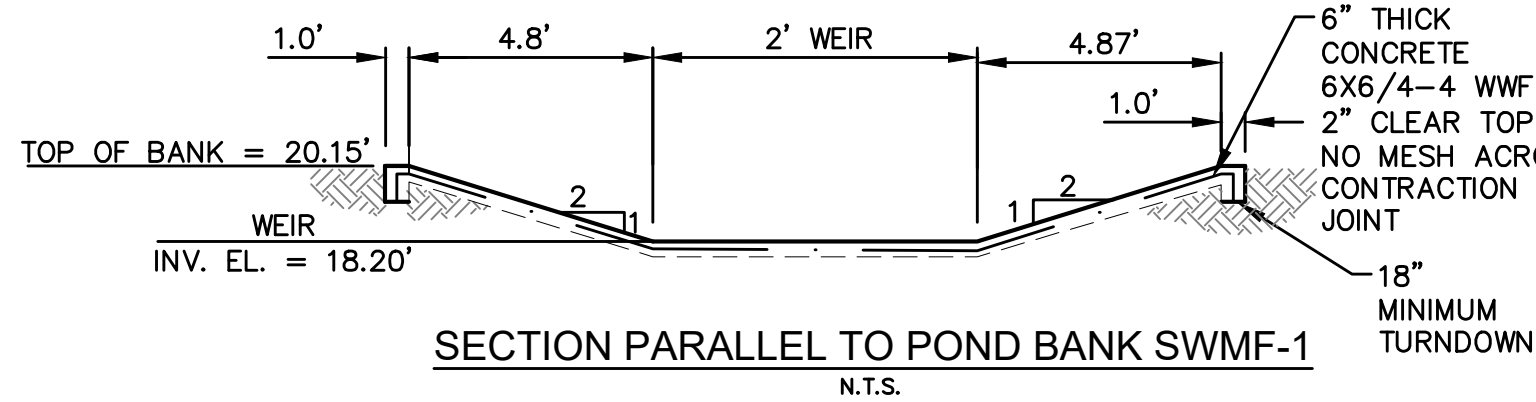
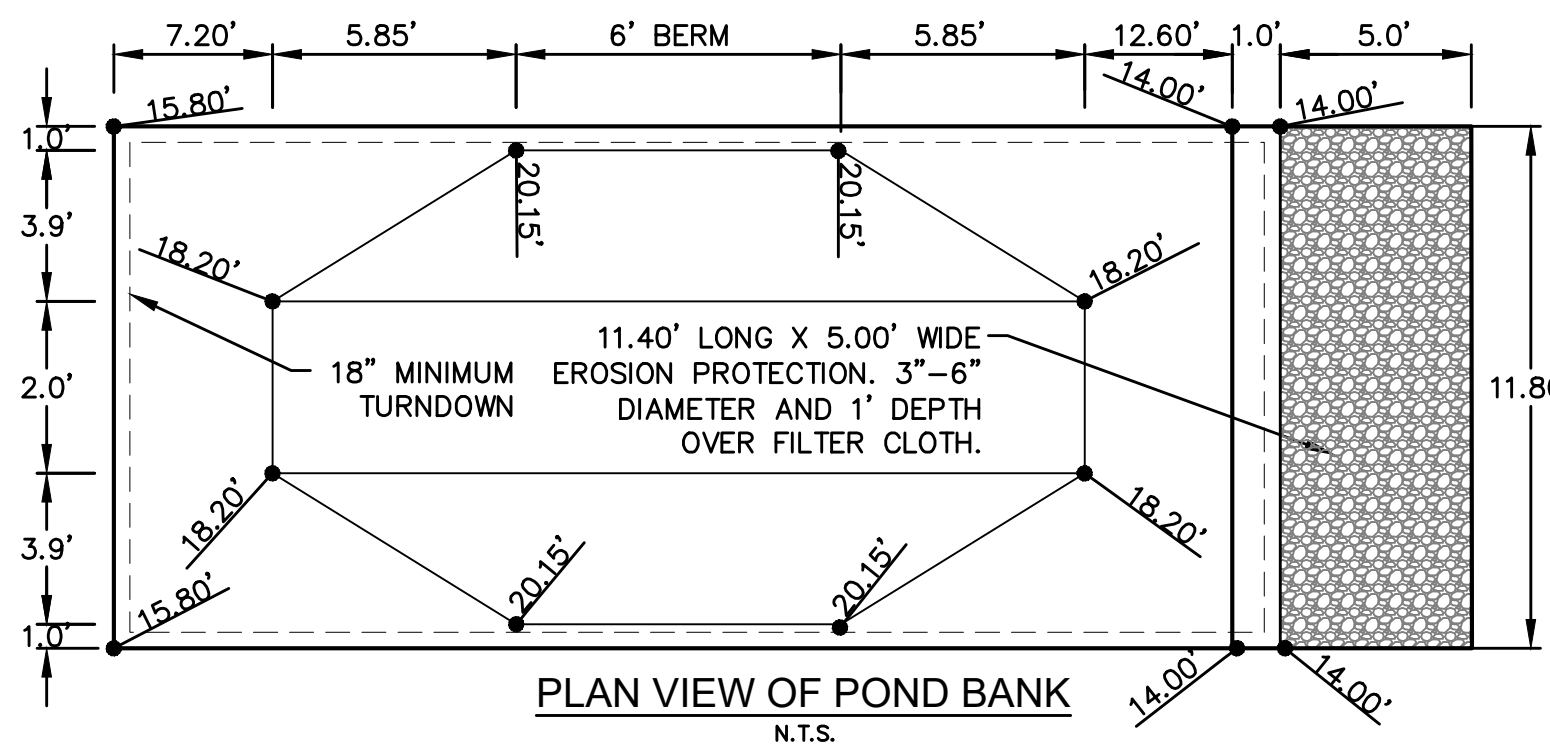
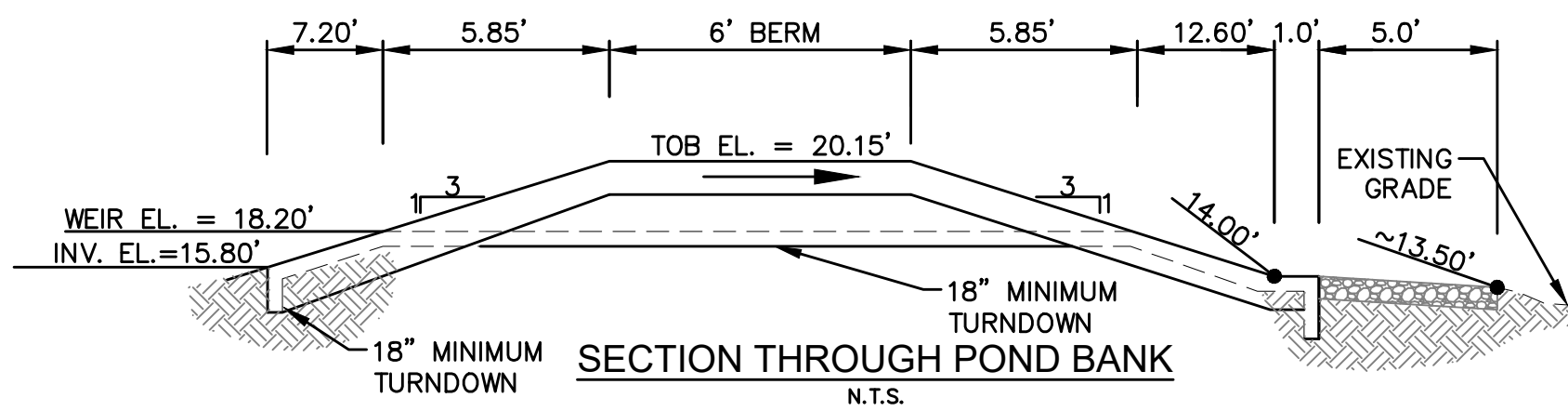
VARIABLE	DESCRIPTION	SWMF-01
"A"	TOP OF BANK EL. (MIN.)	20.15
"B"	BOTTOM OF POND EL.	15.80
"C"	SHGWT EL.	13.80
"D"	DHW EL. (100 YR.)	20.13
"E"	DHW EL. (25 YR.)	19.65
"F"	DHW EL. (5 YR.)	18.55
"G"	DHW EL. (MA)	18.45

- NOTES:
- SIDE SLOPES SHALL NOT BE STEEPER THAN 4:1 TO DEPTH SHOWN ABOVE (PER SJRWMD REQUIREMENTS). CONTRACTOR SHALL VERIFY SLOPES ON RECORD DRAWINGS AT SPOTS SHOWN ABOVE AND AT TURN POINTS AND AT 100' MAXIMUM INTERVALS.
 - CONTRACTOR SHALL FILL EMBANKMENTS (BERMS) THAT ARE ABOVE EXISTING GRADE IN LIFTS NOT EXCEEDING 8" THICKNESS. SURFACE OF FILL SHALL BE SCARIFIED THROUGH 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% OF FINES PASSING THE NO. 200 SIEVE. EMBANKMENT (INCLUDING THE SURFICIAL SOILS WITHIN THE UPPER 2 FEET BELOW THE STRIPPED SURFACE OF THE BERM) SHALL BE COMPACTED TO 98% OF MODIFIED PROCTOR MAX. DRY DENSITY WITH 2% OF OPTIMUM MOISTURE CONTENT. CONTRACTOR SHALL PROVIDE DENSITY TESTS ALONG POND EMBANKMENTS AT 200' INTERVALS. THE BERM SHALL ALSO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS FOR SLOPE STABILITY. THE MORE ASTRINGENT SHALL BE USED. (REFER TO ECS FLORIDA, LLC REPORT OF GEOTECHNICAL EXPLORATION DATED AUGUST 20, 2020, PROJECT NO. 35-30705.)
 - 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.
 - 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.

TYPICAL SECTION THRU DRY STORM WATER MANAGEMENT FACILITY (SWMF-1)
N.T.S.

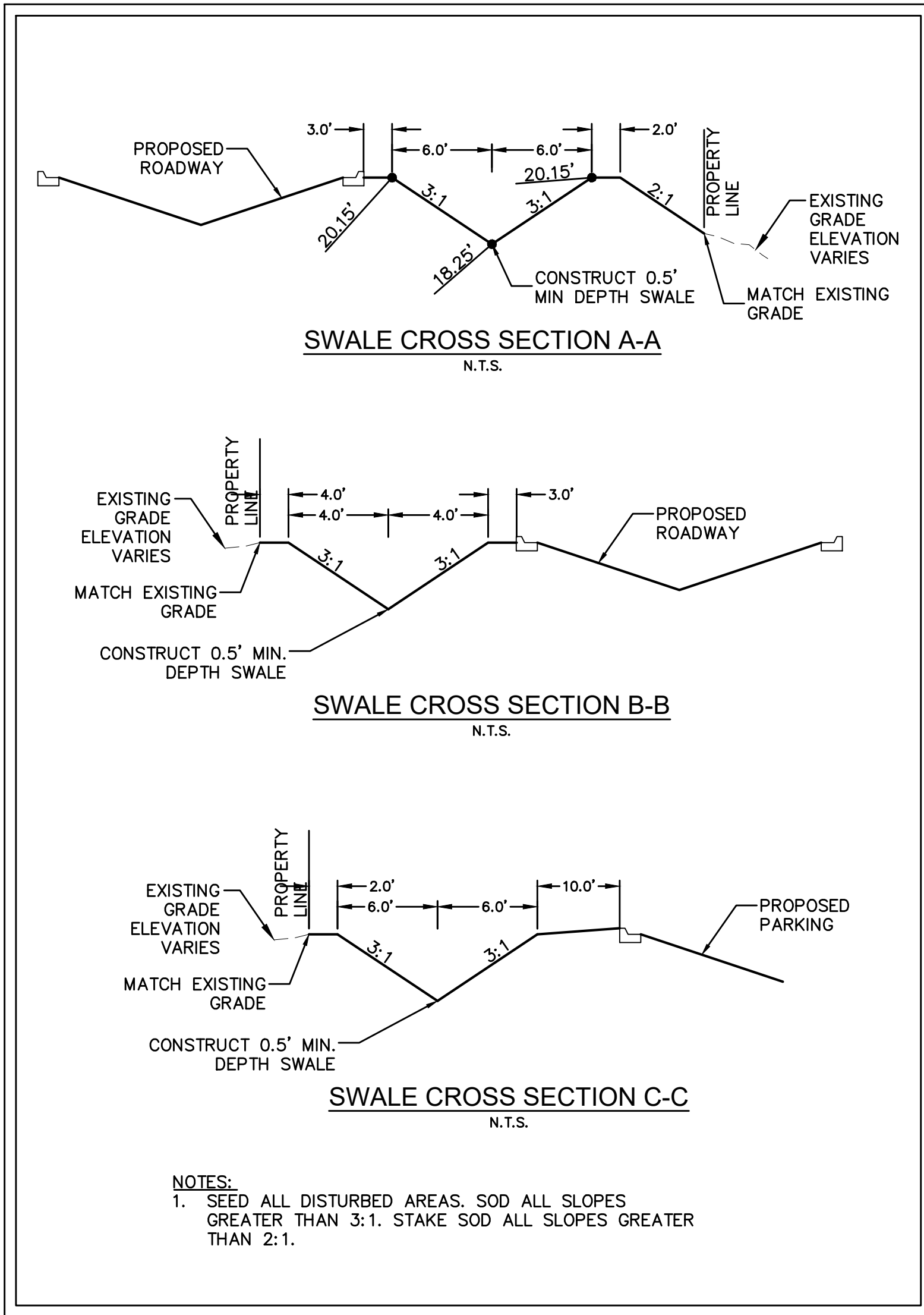


STORM SEWER TYPE "C" INLET
N.T.S.



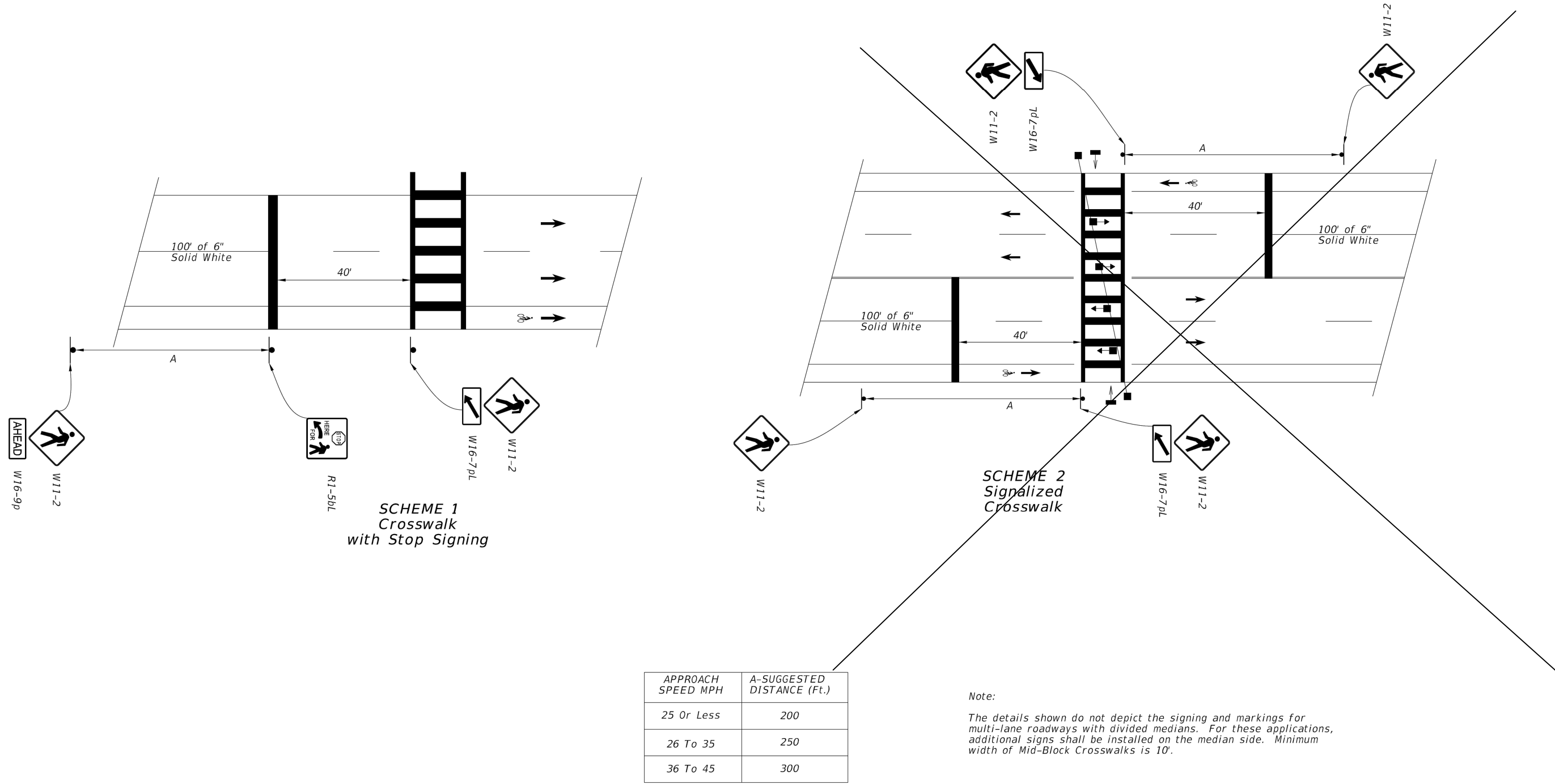
- NOTES:
- 3/4" CHAMFER IN ALL CORNERS. .
 - SOD ALL DISTURBED AREAS.
 - CONCRETE DESIGN STRENGTH 4000 PSI.
 - PROVIDE CRACK CONTROL JOINTS @ 10' O.C.E.W.

OVERFLOW CONTROL STRUCTURE WEIR 1
N.T.S.

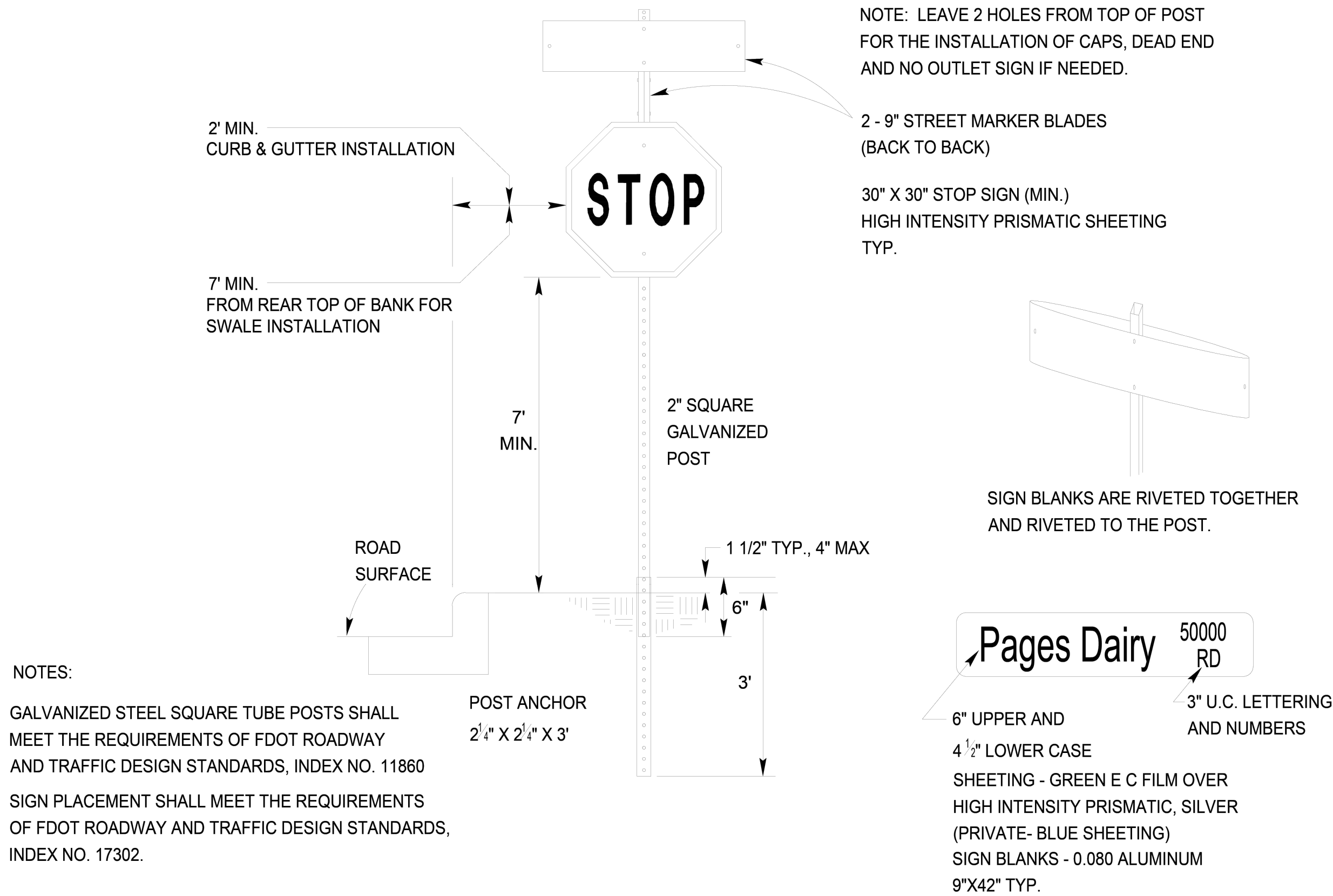


- NOTES:
- SEED ALL DISTURBED AREAS. SOD ALL SLOPES GREATER THAN 3:1. STAKE SOD ALL SLOPES GREATER THAN 2:1.

TYPICAL SIGNING AND PAVEMENT MARKING
FOR MIDBLOCK CROSSWALKS



NOT TO SCALE
FDOT
EXHIBIT 230-3a
01/01/2021



ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY PUBLIC WORKS ENGINEERING SERVICES DEPARTMENT	REVISION DATES	STOP AND STREET MARKER COMBINATION TYPICAL INSTALLATION	DETAIL NO. 21 DWG: ADOPTED:
---	----------------	--	-----------------------------------

Connelly & Wicker Inc.
Engineering · Landscape Architecture
Planning · Engineering · Landscape Architecture
10060 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3030 FAX: (904) 265-3031 www.cweng.com
C.A. Number: 3650 L.A. Number: LC26000311

PAVING AND DRAINAGE
DETAILS

MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

AUTUMN HUBSCH
PE NO. 72939
Reg. Engineer

Project No.: 20-01-0065	Designed: AMH	Drawn: AMH
Checked: JEW	O.C.: RCW	
Date: June 26, 2024		
Scale: 1" = 1'		
Sheet 9D		

1. Engineering Plans approval does not constitute permission to violate any adopted Federal, State, or Local law, code, or ordinance.
2. All work within the public streets and right-of-ways shall conform to Nassau County Land Development Codes (LDC), FDOT Standard Indices, Florida Greenbook, Nassau County Roadway and Drainage Standards, and Nassau County Standard Details as necessary. For any discrepancy between standards, the most stringent shall prevail.
3. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 6.2.4, site shall be constructed per approved construction drawings. Any substantial deviation shall be concurrently reviewed by Engineer of Record and Nassau County Development Review Committee prior to field changes.
4. A pre-construction meeting with Nassau County Engineering Services Construction Inspector is required. Attendees shall be Nassau County, Engineer of Record, Contractor, Testing firm, Paving firm, and utility companies per Nassau County Ordinance 99-17 Section 7.2.3. Nassau County may cancel pre-construction meeting if attendee list is inadequate. Nassau County Engineering Services can be reached at 904-530-6225.
5. The contractor shall schedule and coordinate all work with the appropriate Nassau County Construction Inspector assigned to the project per Nassau County Ordinance 99-17 Section 7.2.
6. All work shall be performed in a safe manner. All safety rules and guidelines of O.S.H.A. shall be followed. The contractor shall be wholly responsible for any injuries to his employees and any damage to private property or persons during the course of this project.
7. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 11.8.1, any disturbed areas within Nassau County Right-of-Way shall be sodded.
8. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 7.4.1, at the time of final inspection, grassing shall be a minimum of seventy percent coverage and fully established and/or sodding to be one hundred percent coverage and stabilized.
9. Engineer of Record approved shop drawings shall be provided to Nassau County Construction Inspector a minimum of one week before beginning structure installation.
10. Parking at mail kiosks is required per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 8.4. Mail kiosk locations are subject to USPS Postmaster approval.

11. The developer's contractor is the single responsible party for the proper implementation of an Erosion Protection Sediment Control (EPSC) within each lot or construction site. This includes the responsibility for the actions/inactions of employees, subcontractors, and/or suppliers.
12. Sidewalks to be provided and built in accordance Florida Building Code. All proposed sidewalks shall meet ADA requirements.
13. The Contractor shall comply with current Florida accessibility standards for all work on this project.
14. Per Ordinance 99-17 Section 8.5.1, minimum cover for water lines and force mains under pavement shall 42" and 36" in green areas.
15. All water, sewer, and storm water construction within Nassau County ROW shall be accomplished by an underground utility contractor licensed under the provisions of Chapter 409 of the Florida Statutes.
16. No work shall be permitted between the hours of 7:00 PM - 7:00AM without prior approval from Nassau County Engineering Services.
17. All trees required to be protected shall be flagged for protection prior to clearing.
18. All grading and placement of compacted fill shall be in accordance with the latest Nassau County Specifications.
19. Any damages (sidewalk, curb, asphalt, ditch grading, et cetera) within Public Right-of-Way shall be repaired or replaced in accordance with Nassau County Specifications. Proposed repair method shall be approved by Nassau County Engineering Services.
20. Any asphalt millings from Nassau County ROW shall be delivered to the Road Department Laydown yard located on Gene Lasserre Boulevard or Pea Farm Road. Please contact the Road Department at (904) 530-6175.
21. Per Nassau County Ordinance 99-17 Section 7.4.2 and 7.4.4, as-built drawings shall be submitted to Nassau County before a final inspection can be scheduled. As-builts submittals will be in accordance with Nassau County as-built requirement checklist. As-built drawings shall be certified by required licensed surveyor and approved by Engineer of Record.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES		DEVELOPMENT REVIEW GENERAL NOTES	NOTE SHEET: 1
				DWG:
				ISSUED: 12/09/2020

CW Connelly & Wicker Inc.
Planning • Engineering • Landscape Architecture
10050 Skinner Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 255-3030 FAX: (904) 265-3031 www.cweng.com
C.A. Number: 3650 C.A. Number: 1226000311

No.	Date	Revision	By
1	7/1		
2	7/1		
3	7/1		
4	7/1		
5	7/1		
6	7/1		
7	7/1		
8	7/1		
9	7/1		
10	7/1		

PAVING AND DRAINAGE DETAILS

MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

AUTUMN HUBSCH
PE NO. 72939
Reg. Engineer

Project No.: 20-01-0065	
Designed: AMH	Drawn: AMH
Checked: JEW	O.C.: RCW
Date: June 26, 2024	
Scale: 1" = 1'	

Sheet 9E

1. All stormwater drainage facilities within Public Right-of-Way and paved areas, including Nassau County Right-of-Way, turn lanes, residential roadways, drive aisles for multi-family developments, and major drive aisles for commercial developments shall be laser profiled per FDOT Section 430.
2. A builder cannot modify the County's storm water management system including the pipes, inlets, area drains, ditches and related elements typically within the street or within a drainage easement without the prior written approval of the County Engineer or designee.
3. Drainage easements and ditches should remain free of stockpiled soil, sediment, mud, construction materials/waste, et cetera at all times. Positive stormwater flow must be maintained throughout construction.
4. The contractor shall temporarily or permanently stabilize bare soil areas and soil stockpiles when the area is inactive for fourteen days or more or has reached finished grade.
5. Per Ordinance 99-17 Section 11.11.5.4, all gravity flow pipe installations shall have a soil tight joint performance unless specific site factors warrant watertight joint performance.
6. Per Ordinance 99-17 Section 10.6.5.1, immediately install additional Erosion Protection Sediment Control measures if sediment is leaving your site. Failure to contain sediment to your site may result in delayed inspections, notices of violation, citations, fines, penalties, and/or stop work orders.
7. Per 99-17 Section 10.1.2.a-e, stormwater management for a project shall not have adverse effects on adjacent properties, downstream structures, or rights of other landowners.

1. Per Nassau County Roadway and Drainage Standards, Ordinance 99-17 Section 12.2 and 12.4, a construction bond and 26-month maintenance bond will be required for all work within Nassau County Right-of-Way.
2. A pre-pave meeting is required prior to any paving operations within Nassau County ROW, residential subdivisions, or multi-family developments.
3. Approved mix designs shall be provided to Nassau County Construction Inspector 48 hours prior to pre-pave meeting or placement of concrete.

4. Contractor is required to have a Certified QC Asphalt Level II Technician during any asphalt operations within Nassau County ROW, residential subdivision, or multi-family developments.
5. All bases shall be primed in accordance with Ordinance 99-17 Section 11.5.2.3, Nassau County Standard Details, and FDOT Standard Specifications.
6. Signage and pavement markings shall be in compliance with Nassau County Standards, Manual on Uniform Traffic Control Devices (MUTCD), and FDOT Standard Plans.
7. Maintenance of Traffic (MOT) shall be in compliance with FDOT Standard Index 600 Series.
8. All work, materials, and testing performed within Nassau County right-of-way and single-family/multi-family developments shall be in accordance with the current revision of Nassau County's Ordinance 99-17 and all current Nassau County Standard Details.
9. Per Ordinance 99-17 Section 11.9.2, all pavement markings within Nassau County ROW shall be lead free thermoplastic meeting Nassau County and FDOT Standard Specification Latest Edition.
10. Removing pavement markings within Nassau County ROW shall be:
 - a. Grinding or hydro-blasting on weathered asphalt surfaces.
 - b. Hydro-blasting only on new asphalt surfaces.
 - c. Paint Blackout is prohibited.
11. Per Ordinance 99-17 Section 8.5.5, any damage to pavement resulting from construction or pavement marking removal within Public ROW not planned as part of the project shall be milled and overlaid for entire width of roadway and length of damage plus 50' in each direction.
12. All underground utilities, or appropriate conduit sleeves, that are to be installed under pavement must be installed prior to preparation of the subgrade for pavement.
13. Single Vertical Joints in roadway construction shall be avoided in Nassau County Right-of-Way using Nassau County Standard Detail #26.
14. All drainage structures shall have traffic bearing grates that meet or exceed the rating for the facilities expected traffic.
15. All concrete shall be a minimum of 3000 psi within Public Right-of-Way.

ROADWAY AND DRAINAGE STANDARDS NASSAU COUNTY ENGINEERING SERVICES DEPARTMENT	REVISION DATES		STORMWATER DRAINAGE & PAVING NOTES	NOTE SHEET: 2
				DWG:
				ISSUED: 12/09/2020

[illegible]

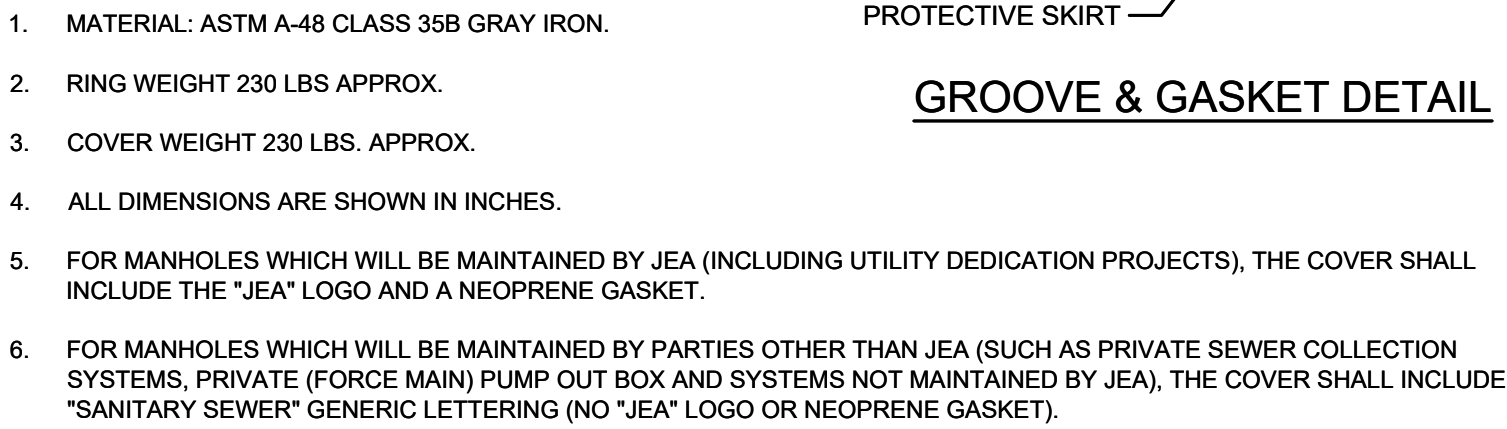
Printed By: autumn

Printed: Jun 26, 2024 - 6:25pm

1. 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.
2. THE MINIMUM JOINT SPACING REQUIRED FROM CROSSING FROM OTHER UTILITIES WHILE STILL MAINTAINING MINIMUM VERTICAL SEPARATION.
3. DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
4. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURES.
5. 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.
6. REFER TO POTABLE WATER PIPING- SECTION 350, III.4.11.
7. SEE SECTION 350, III.4.10 FOR MINIMUM SEPARATION REQUIREMENTS FROM PIPE TO STRUCTURES.

J:\20\20-01-0065 Mercy Hill Church\Design\Drawings\Plots\20-01-0065 Wsdets.dwg

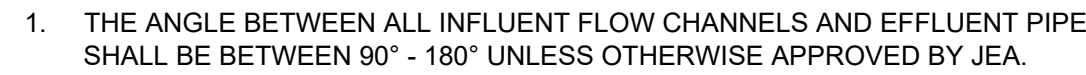
1. IT IS REQUIRED THAT "WATER MAINS" BE INSTALLED, CLEANED, DISINFECTED AND HAVE A SATISFACTORY BACTERIOLOGICAL SURVEY PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE AWWA STANDARDS, CHAPTER 62-555, F.A.C. AND LATEST USE WATER AND SEWER STANDARDS. FOR THE PURPOSE OF THIS SECTION, THE PHRASE "WATER 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 II OF CHAPTER 62-610, F.A.C.
2. 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.
3. 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).
4. 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.
5. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT 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.
6. AT THE UTILITY CROSSINGS DESCRIBED IN NOTES 4 AND 5 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE AND BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE, AS FAR AS POSSIBLE, FROM THE OTHER PIPELINE ALTERNATELY. 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.
7. 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.
8. 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 COULD BE LOCATED LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM THE OTHER PIPELINE, THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER TO OBTAIN APPROVAL OF ANY ALTERNATIVE CONSTRUCTION METHODS, PRIOR TO CONSTRUCTION.

JANUARY 2020 PLATE W-11

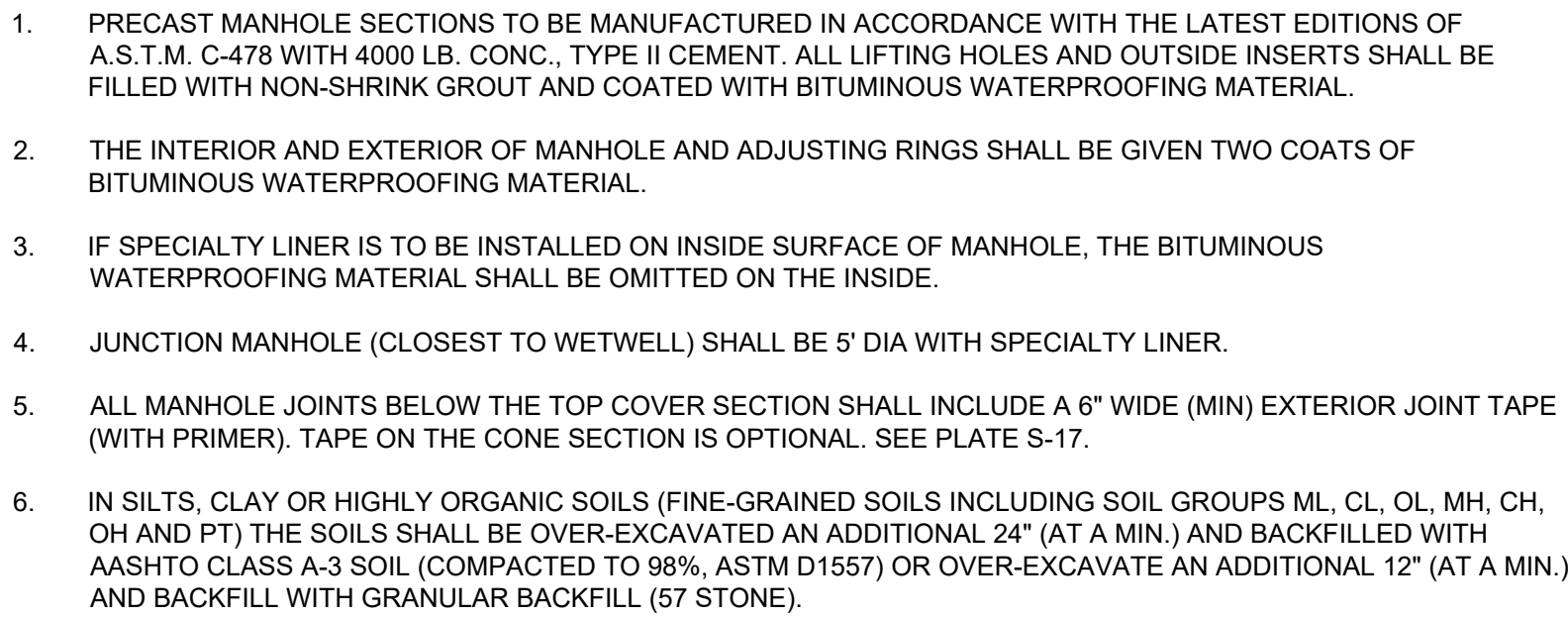
JANUARY 2020 PLATE S-1




JANUARY 2020 PLATE S-17

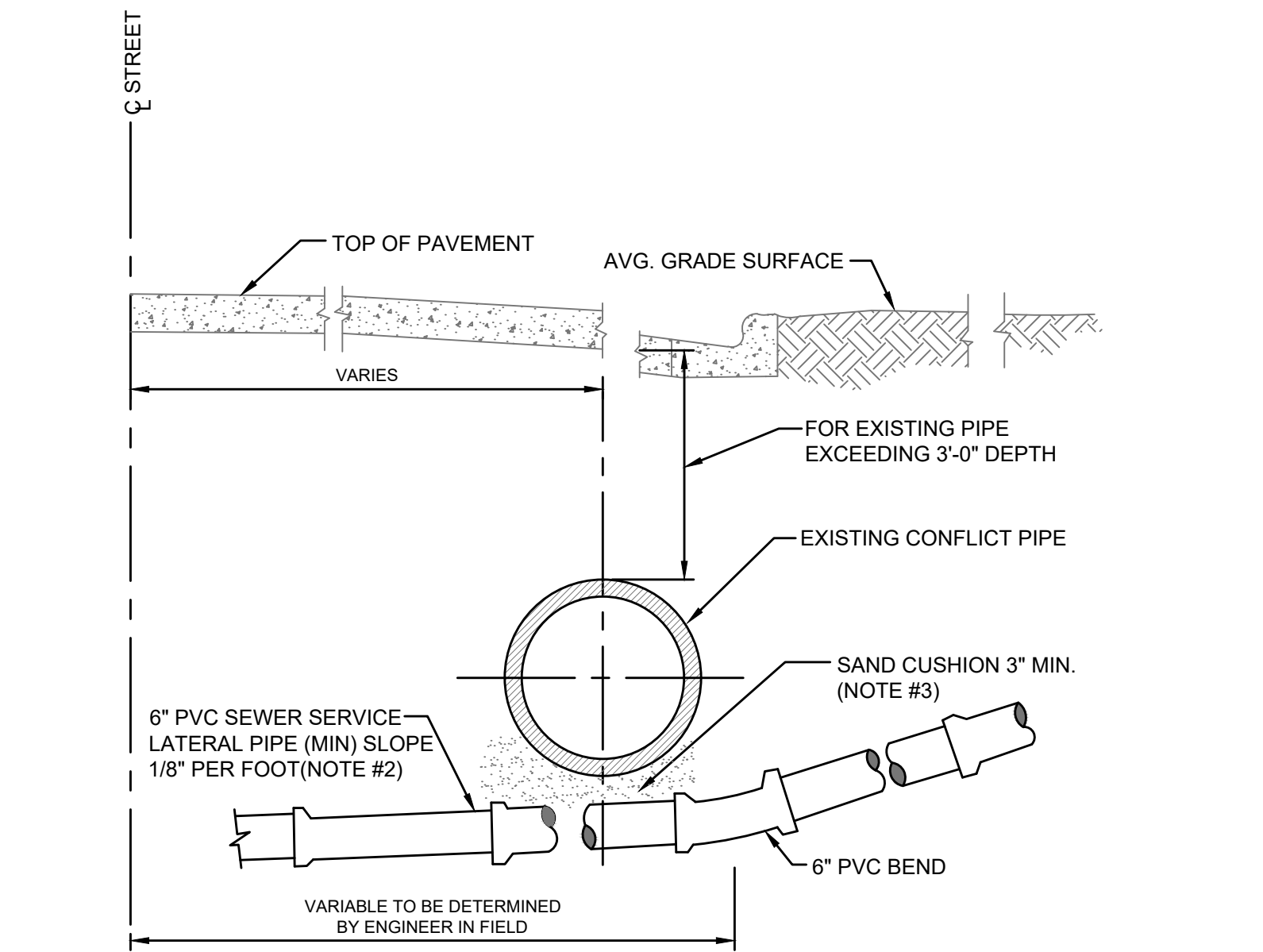


(FOR SECTION VIEW SEE S-2, S-2A)



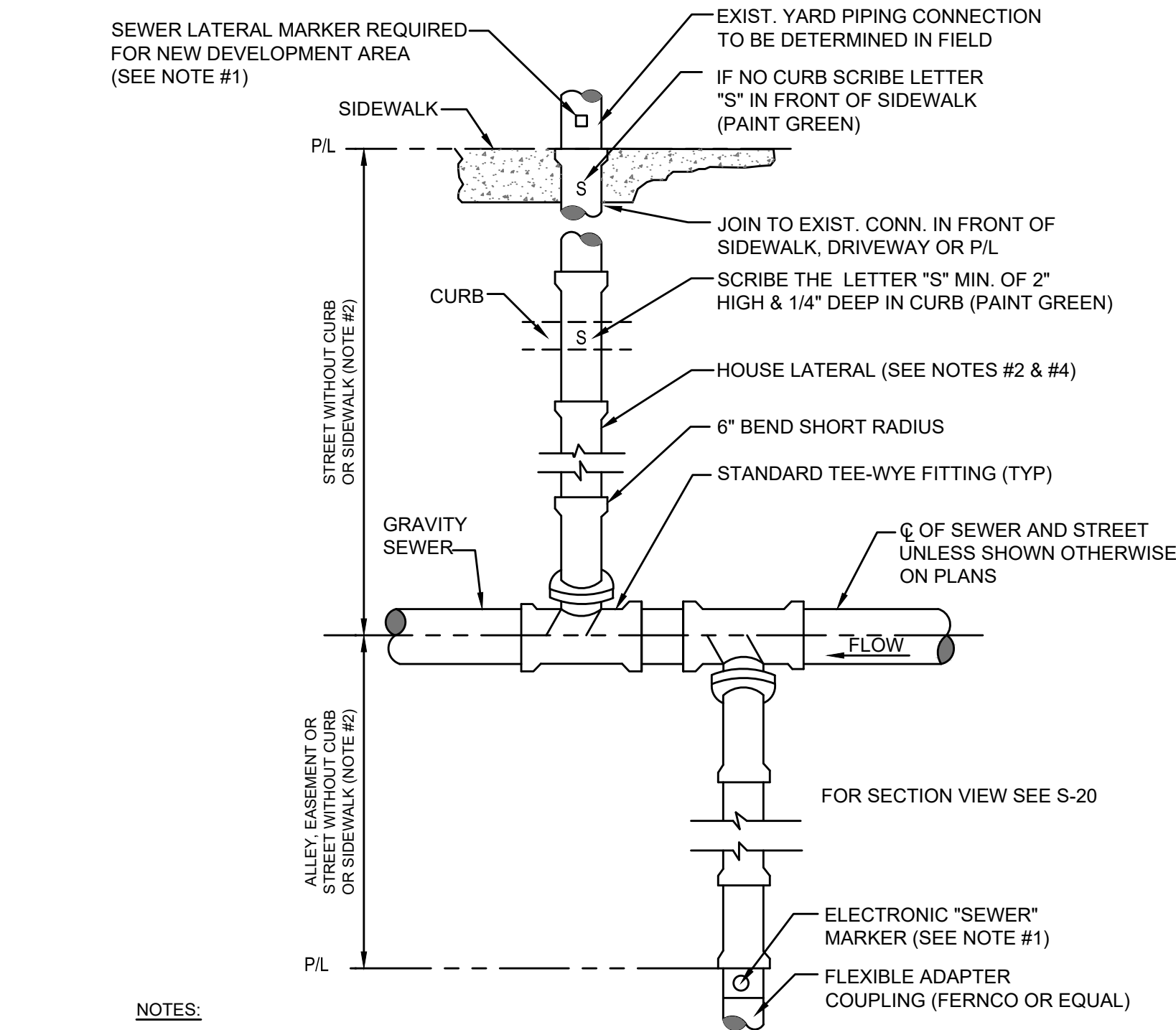
JANUARY 2020 PLATES S-2, S-3

NO. SHEETS		PROJ. NO. 20-01-0065			DESIGNER: APMH		DESIGN ENGINEER	NO.	BY	DATE	REVISIONS
SHEET NO.		DATE: JUNE 2024			DRAWN BY: APMH		AUTUMN HUBSCH	△	△	△	
DRAWING NO.		SCALE: N.T.S.			CHECKED BY: JEW		FLORIDA REGISTRATION NO.	△	△	△	
					DATE:		PE NO. 72939	△	△	△	



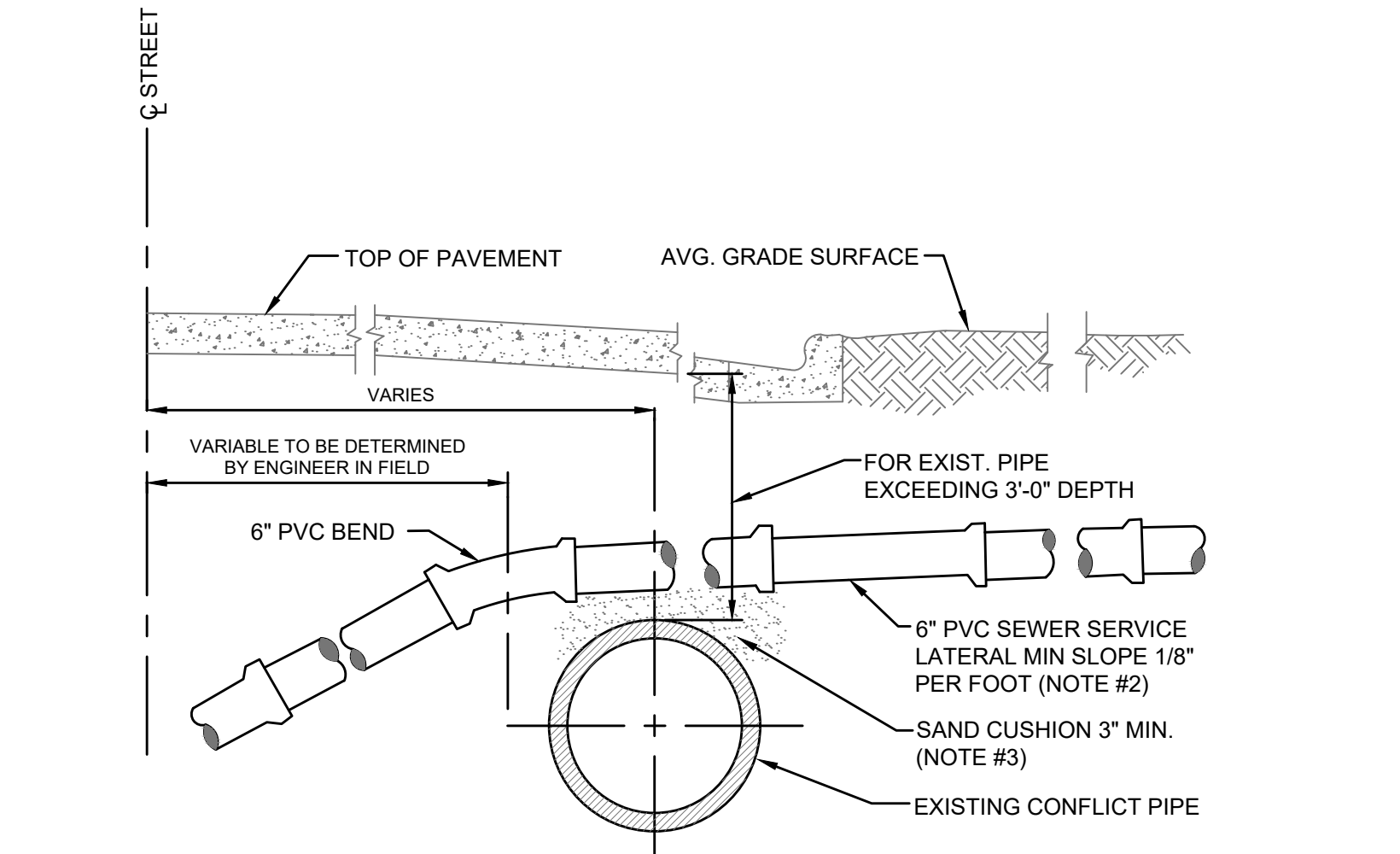
- NOTES:
1. ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
 2. FLATTER SLOPE MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION
 3. THE SOILS BETWEEN THE NEW MAIN AND THE CONFLICT PIPE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED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

HOUSE LATERAL UNDER CONFLICT PIPE
JANUARY 2020
PLATE S-24



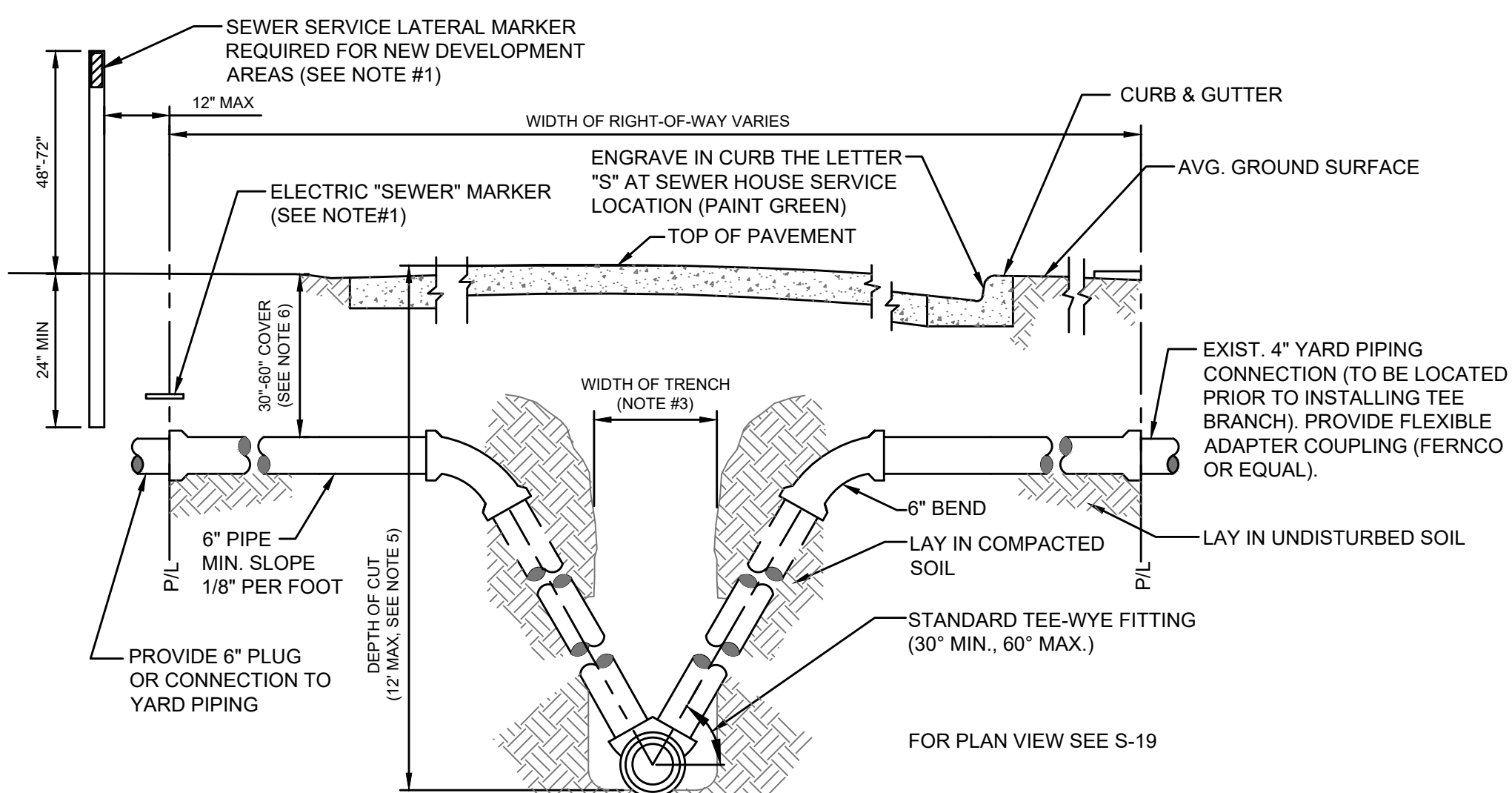
- NOTES:
1. TO MARK THE LOCATION OF THE 6" PLUG FOR NEW SERVICE: FOR PROJECTS WHERE NO CONCRETE CURB EXIST, AN ELECTRONIC "SEWER" MARKER IS REQUIRED FOR ALL LATERALS WHICH ARE BEING INSTALL FOR FUTURE USE AT A MAX DEPTH OF 3' AT FINISH GRADE. FOR NEW DEVELOPMENT AREAS WHERE THE SEWER LATERAL IS "NOT 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.
 2. 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).
 3. NO SEWER SERVICE CONNECTIONS PERMITTED ON GRAVITY SEWER PIPE WHICH ARE 16" AND LARGER.
 4. 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:
1. ALTERNATE GRADIENT FOR 6 INCH LATERAL SEWERS AT CONFLICTS WITH EXISTING UTILITIES.
 2. FLATTER SLOPES MUST BE PRE-APPROVED BY JEA O&M MANAGER (ONLY) PRIOR TO CONSTRUCTION.
 3. 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:
1. 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 BEING INSTALL FOR FUTURE USE AT A MAX DEPTH OF 3' AT FINISH GRADE. 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.
 2. 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).
 3. SEE MEASUREMENT AND PAYMENT SECTION FOR MAXIMUM PAYMENT WIDTHS.
 4. ALL GRAVITY SEWER MAINS AND ASSOCIATED SEWER LATERAL PIPE AND FITTINGS (INCLUDING THE TEE-WYE FITTINGS) SHALL BE PVC SDR-26.
 5. 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.
 6. 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.
 7. 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

Connelly & Wicker Inc.

Planning

Engineering

Landscape Architecture

10060 Summer Lake Drive, Suite 500

Jacksonville, Florida 32246

(904) 265-3050 Fax: (904) 265-3051

www.connellywicker.com

C.A. Number: 3650 L.A. Number: LC20000311

NO.	BY	DATE	REVISIONS

DESIGNER: AJH	DESIGN ENGINEER
DRAWN BY: AJH	AUTUMN HUBSCH
DATE:	FLORIDA REGISTRATION NO.
CHECKED BY: JEW	PE NO. 72939
DATE:	

WATER AND SEWER DETAILS

PROJ. NO. 20-01-0065	DATE: JUNE 2024
SHEET NO. 105	SCALE: N.T.S.
DRAWING NO.	

CASE "B" CROSSING

1. 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.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
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 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.
5. 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.

PLATE S-41

CASE "A" CROSSING

1. 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.
2. FOR OTHER LOCATION LIMITATIONS SEE DETAIL (S-26 & S-27).
3. LOCATING WIRE REQUIRED: SEE DETAIL S-49.
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 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.
5. 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.

PLATE S-39

PLATE S-27

LOCATE WIRE BOX UTILIZING VALVE BOX

LOCATE WIRE BOX UTILIZING METER BOX

WATERPROOF WIRE CONNECTOR DETAIL

1. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE (SEE W-18)
2. LOCATE WIRE SHALL HAVE ENOUGH SLACK TO REACH 4' ABOVE FINAL GRADE AND LOCATE POINTS.
3. LOCATE WIRE CONNECTION SHALL ONLY BE A 2 WAY CONNECTION.

PLATE S-49B

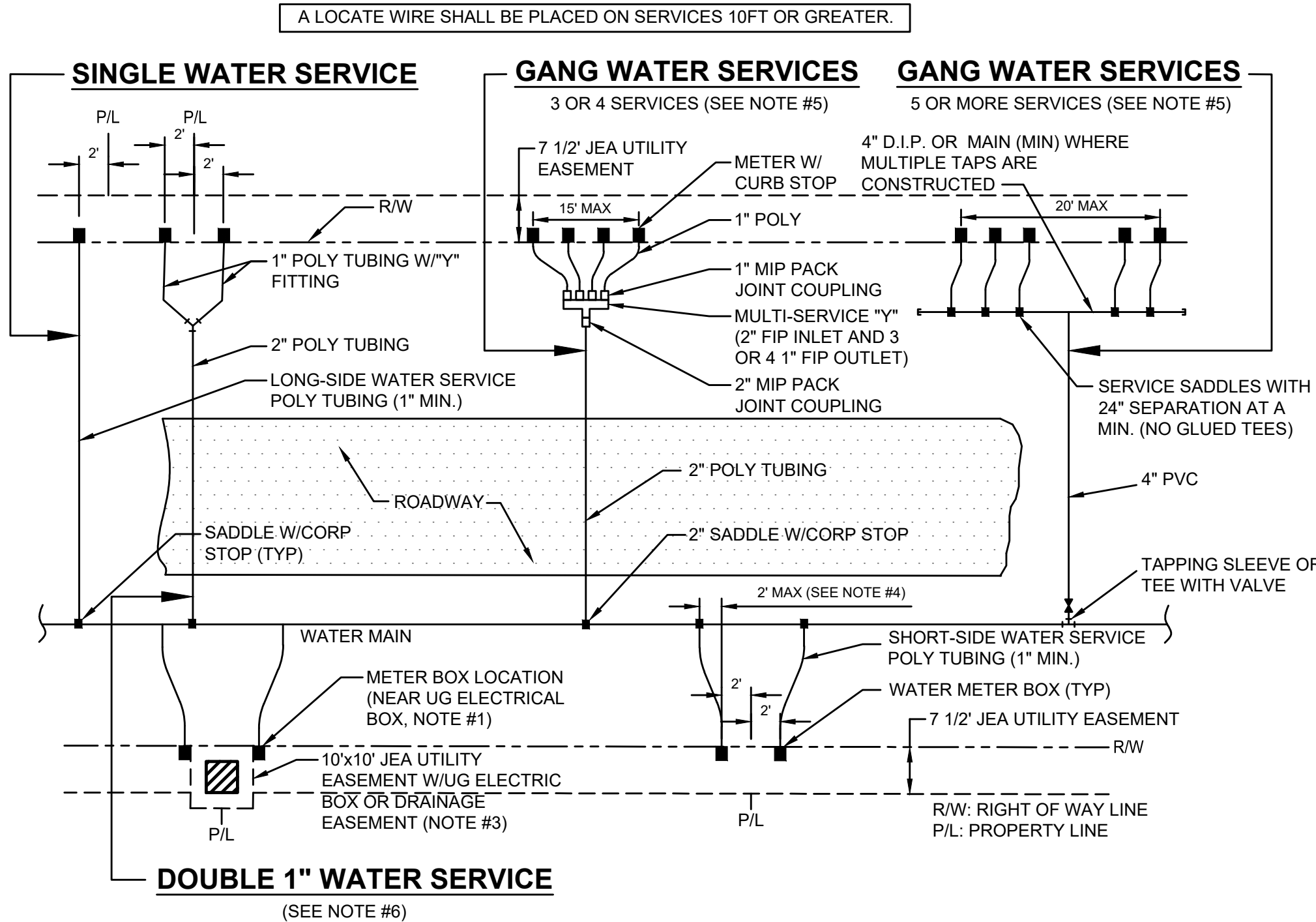
1. EACH WIRE SHALL BE ROUTED FROM THE VALVE TO THE HYDRANT AS SHOWN ABOVE LEAVING ENOUGH SLACK TO LOCATE 4' ABOVE FINAL GRADE. THE END OF THE WIRE SHALL BE SECURED TO THE PIPE MAIN. SEE SECTION 300, LOCATE WIRE INSTALLATION PARAGRAPH.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN BACK OF CURB AND FACE 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 RESTRICTIONS SEE PLATES W-10 AND W-11. IF PIPING BETWEEN TEE AND HYDRANT IS LONGER THAN 80 LF, AN ADDITIONAL 8" 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 OR EYE BOLTS (NO JOINT RESTRAINT DEVICES REQUIRED). A SPLIT SERIALIZED WIRE WITH RESTRAINT EARS (EBA4 15 PFO6 or EQL0) MAYBE USED IN THIS ASSEMBLY. ALL OTHER JOINTS ALONG THE HYDRANT BRANCH MAIN OUTSIDE OF THE FIRST 15 LF SHALL INCLUDE JOINT RESTRAINTS.
3. 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.
4. 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.
5. 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.
6. BLUE REFLECTIVE MARKERS SHALL BE INSTALLED IN SUCH A MANNER THAT THE REFLECTIVE FACE OF THE MARKER IS PERPENDICULAR TO THE 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.

PLATE W-12

J:\20\20-01-0065 Mercy Hill Church\Design\Drawings\20-01-0065 Wsdets.dwg

Printed: Jun 26, 2024 - 6:25pm

Printed By: autumn

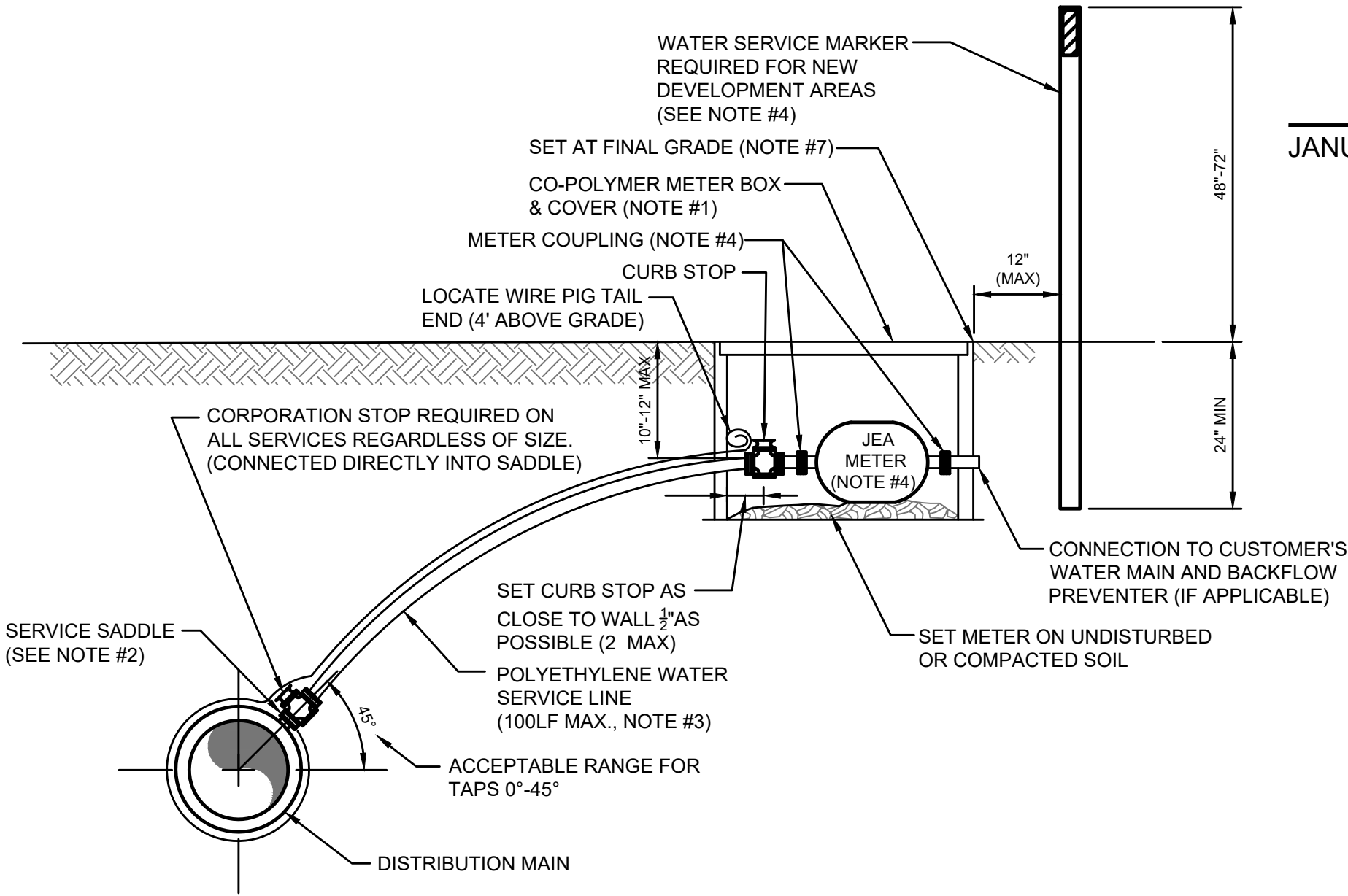


- NOTES:**
- THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED. TYPICALLY, THE METER BOX SHALL LOCATED AT THE R/W LINE BUT INSIDE THE 7 1/2" ELECTRIC EASEMENT.
 - UNLESS SPECIFIED OTHERWISE 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 TWO FEET INSIDE OF 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-3&4, 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.
 - IF DRAINAGE OR OTHER EASEMENT LOCATED BETWEEN LOTS, METER BOXES SHALL BE LOCATED AT THE EASEMENT LINE BUT OUTSIDE THE EASEMENT AREA.
 - 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 TAPED WITH NO CONNECTION TO MAIN WIRE WITH THE LAST 24 INCHES STRIPED 0" 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.
 - 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.
 - DOUBLE 1" WATER SERVICES IS ALLOWED FOR SHORT SIDE OR LONG SIDE SERVICES AND WHERE SHOWN ON THE DRAWINGS.
 - 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).
 - No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
 - 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.
 - SERVICE SIZE SHALL BE SAME AS THE METER SIZE.

WATER OR RECLAIM SERVICE INSTALLATIONS 2" AND SMALLER METER

JANUARY 2020

PLATE W-1

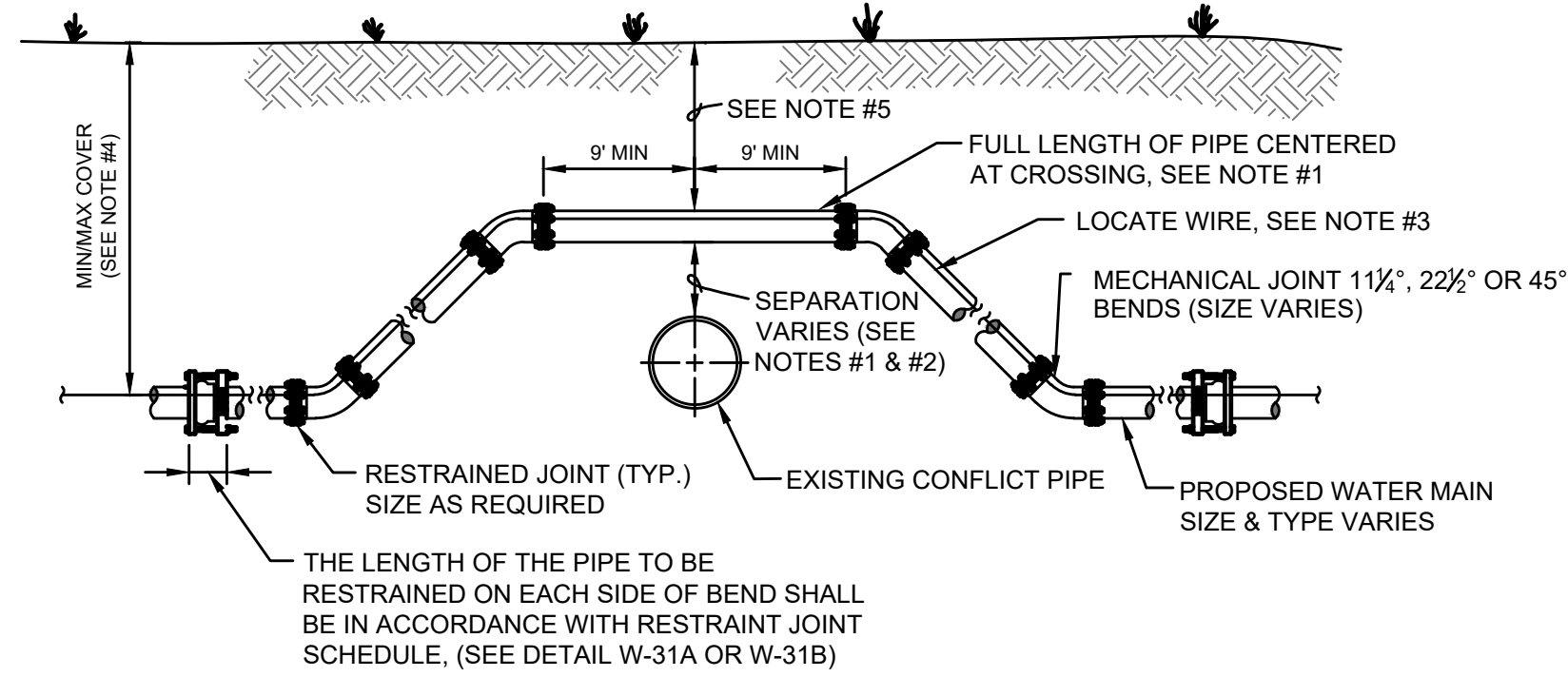


- NOTES:**
- SEE PLATE W-1 FOR METER LOCATION REQUIREMENTS.
 - SINGLE BAND SADDLES SHALL BE UTILIZED ON NEW 1" WATER SERVICES WHICH ARE INSTALLED ON A DRY 10" SIZE OR SMALLER WATER MAIN (NEW WATER MAIN CONSTRUCTION). FOR WET TAPS OR WATER MAINS 12" SIZE AND LARGER, A DOUBLE BAND SADDLE IS REQUIRED. BRASS SADDLES MAY BE UTILIZED ON NEW 1 INCH AND SMALLER WATER SERVICES WHICH ARE INSTALLED ON A DRY 10 INCH OR SMALLER PVC WATER MAIN.
 - NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY J.E.A. 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.
 - 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).
 - NO 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
 - 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.
 - 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).
 - 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



CASE "A" CROSSING

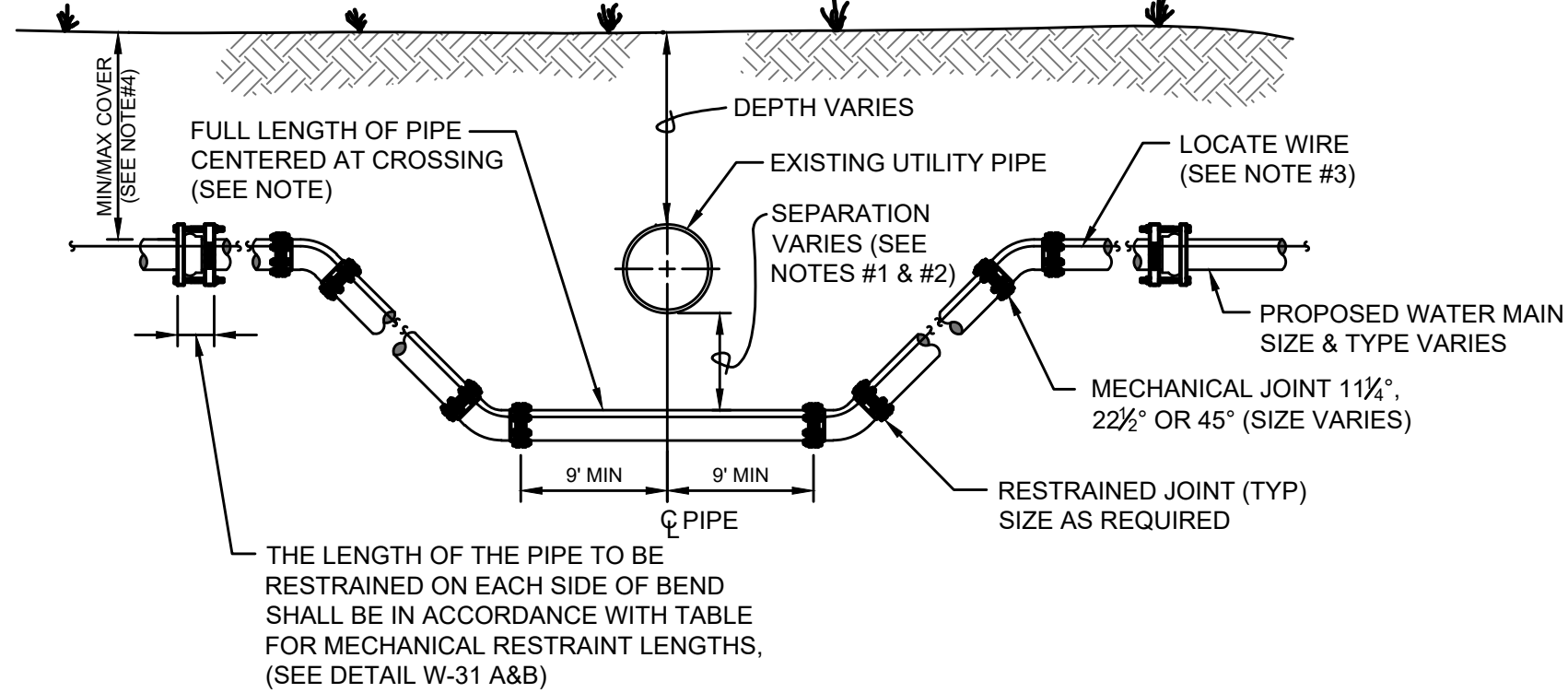
NOTES:

- 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.
- FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAIL (W-10 AND W-11).
- LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- 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.
- 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:

- 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.
- FOR MINIMUM VERTICAL SEPARATION REQUIREMENTS SEE DETAILS (W-10 AND W-11).
- LOCATING WIRE REQUIRED: SEE DETAIL W-44.
- 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

Connelly & Wicker Inc.

Planning · Engineering · Landscape Architecture

10060 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 265-3050 Fax: (904) 265-3051 www.connellywicker.com
C.A. Number: 3650 L.A. Number: LC26000311

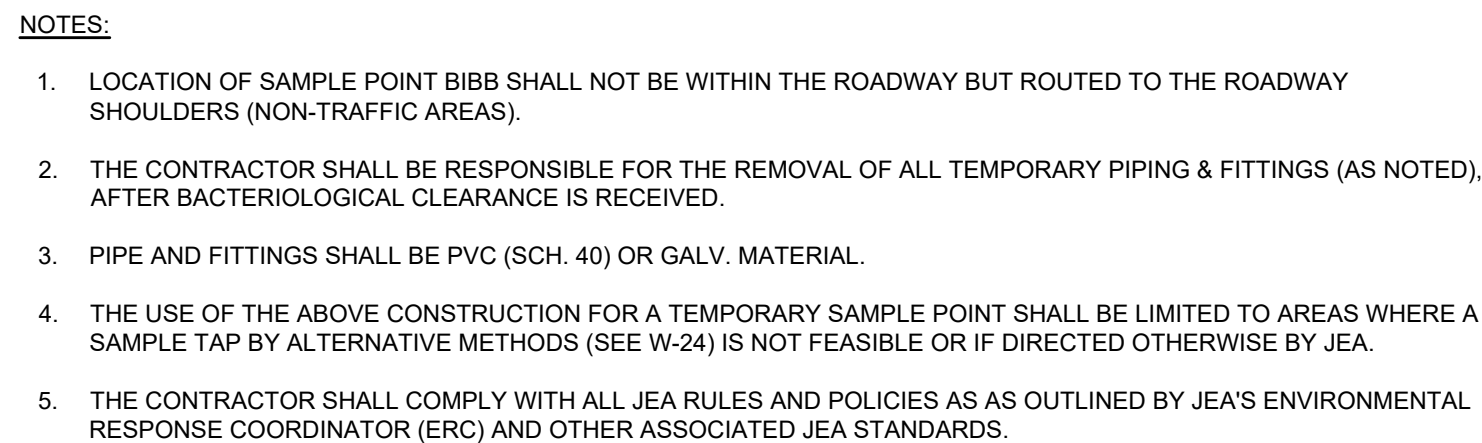
NO.	BY	DATE	REVISIONS

DESIGNER: AHH	DESIGN ENGINEER: AUTUMN HUBSCH
DRAWN BY: AHH	FLORIDA REGISTRATION NO. PE NO. 72939
DATE:	CHECKED BY: JEW
	DATE:

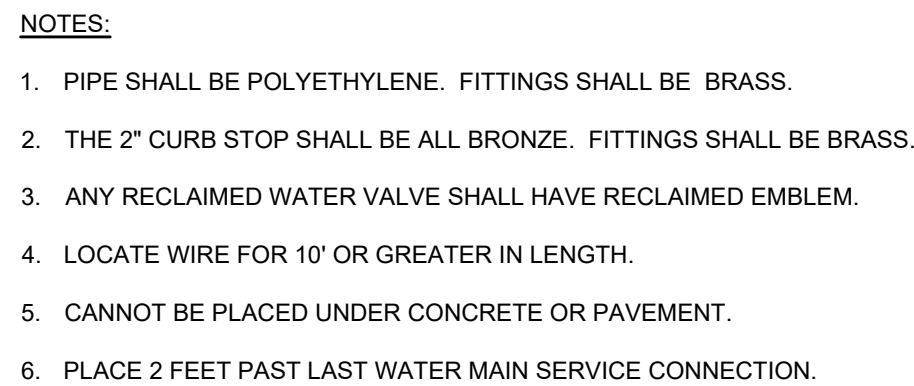
JEA
Building Community™

WATER AND SEWER DETAILS

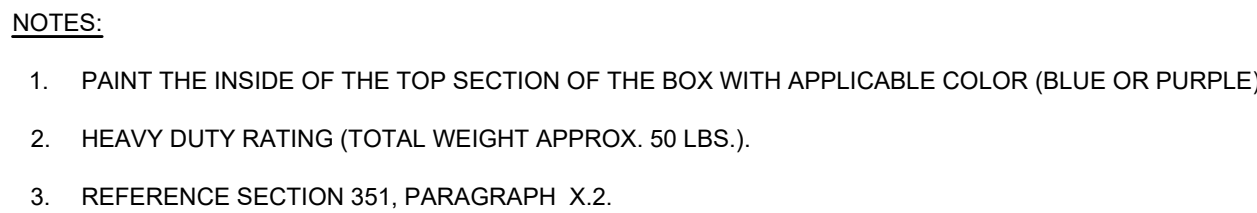
PROJ. NO. 20-01-0065	DATE: JUNE 2024	SCALE: N.T.S.
SHEET NO.		
DRAWING NO.		



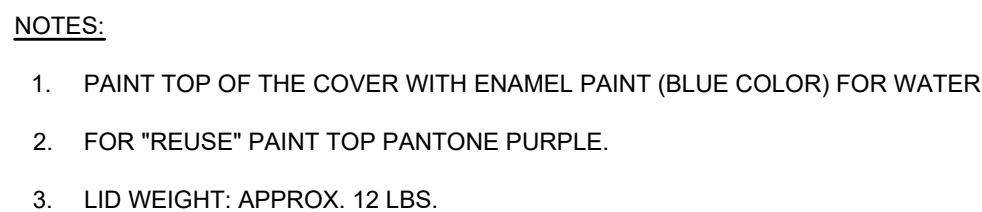
JANUARY 2020 PLATE W-25



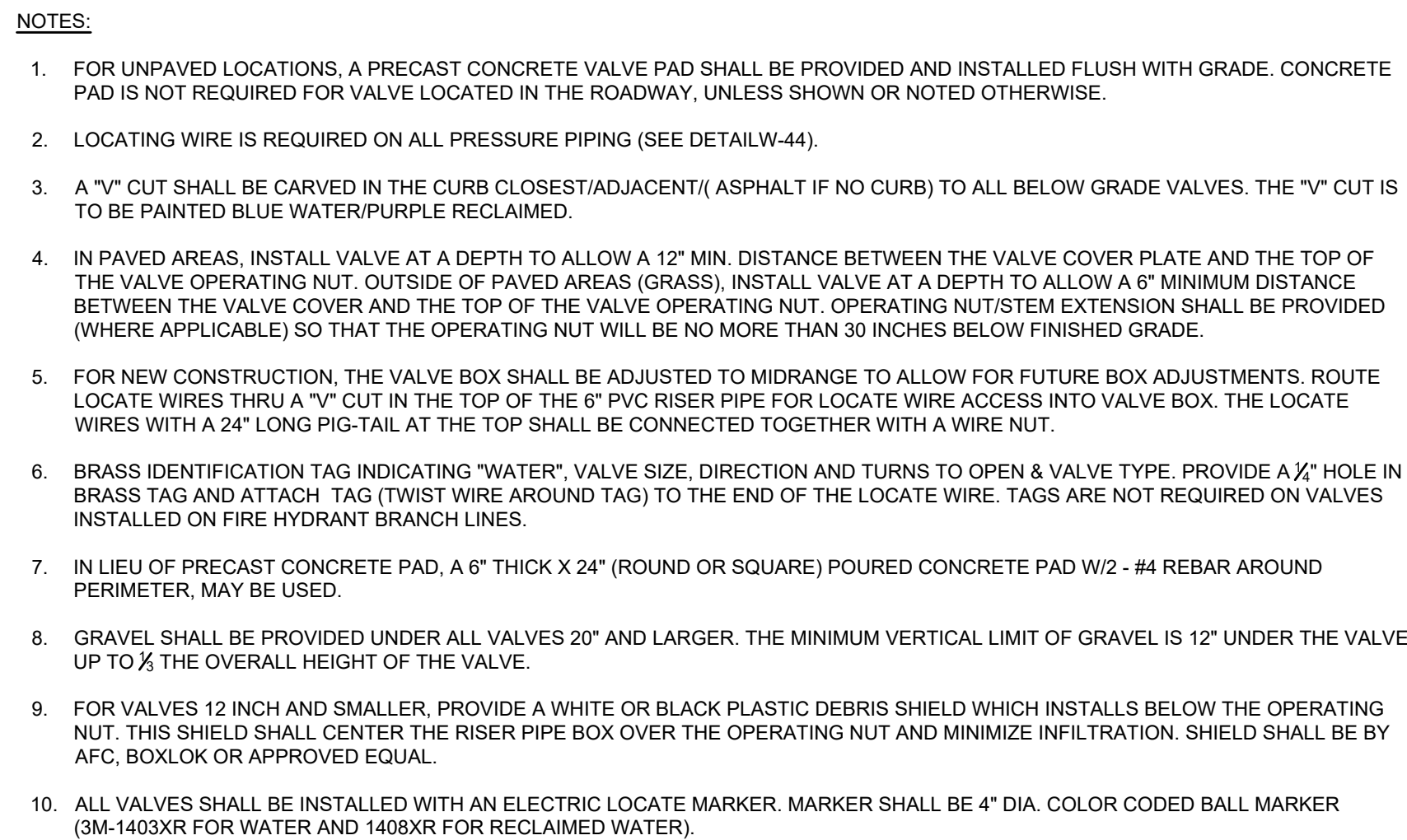
JANUARY 2020 PLATE W-28



JANUARY 2020 PLATE W-17



JANUARY 2020 PLATE W-16



JANUARY 2020 PLATE W-18

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, 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 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.

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

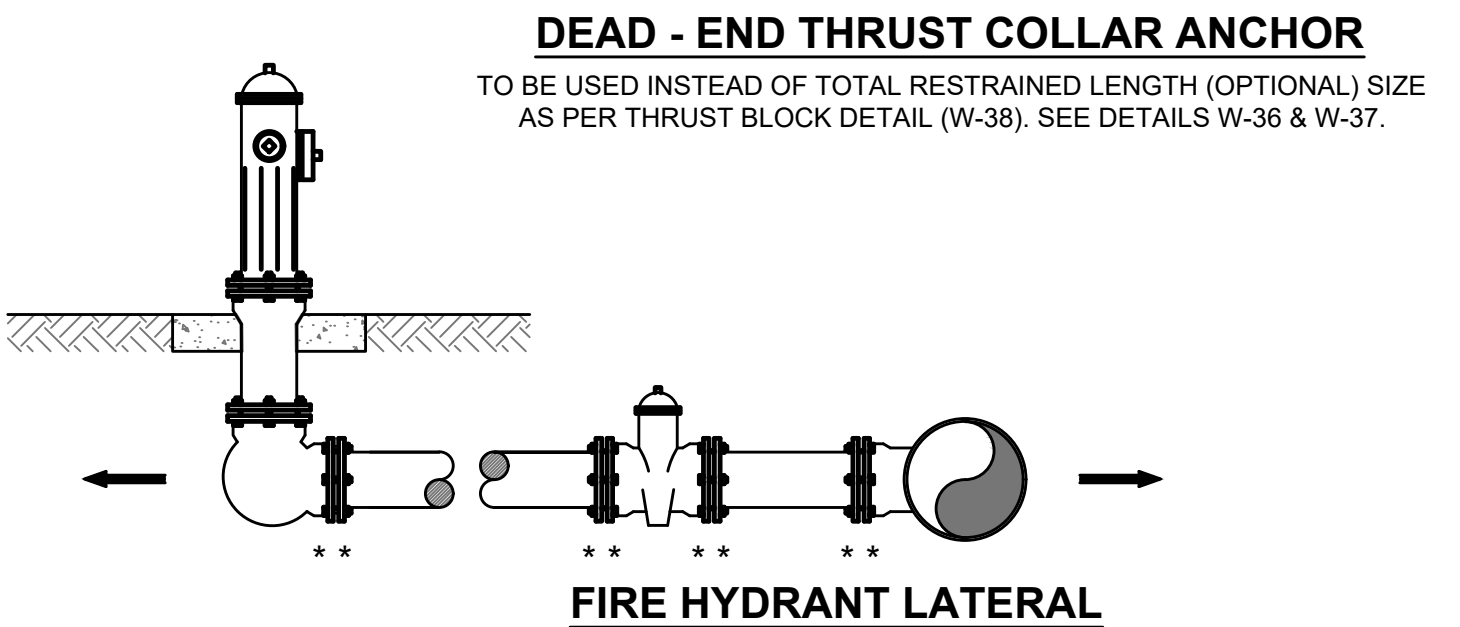
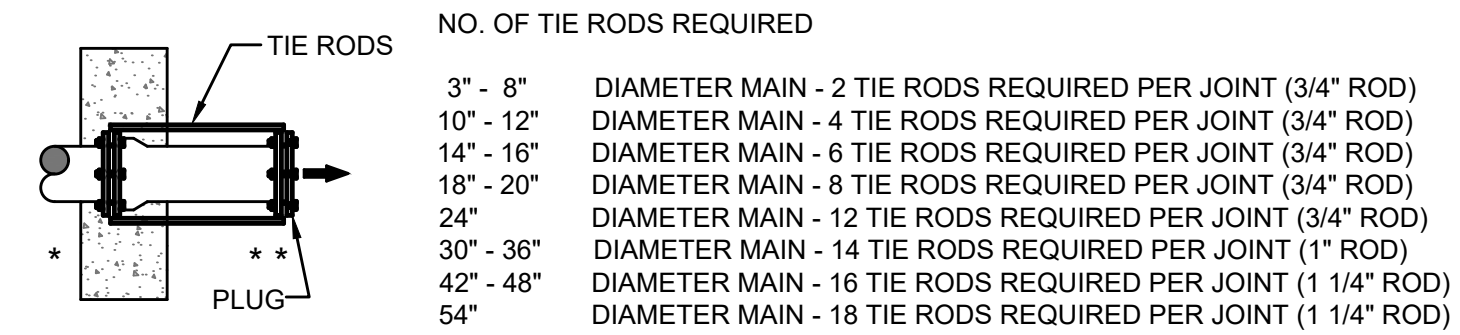
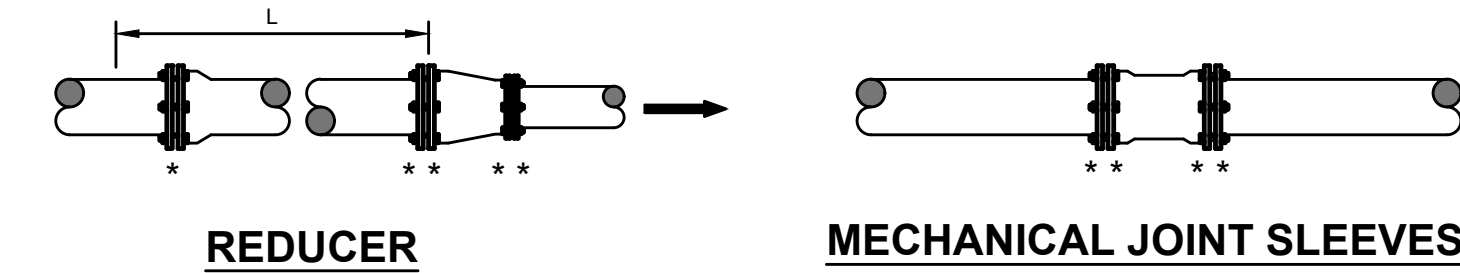
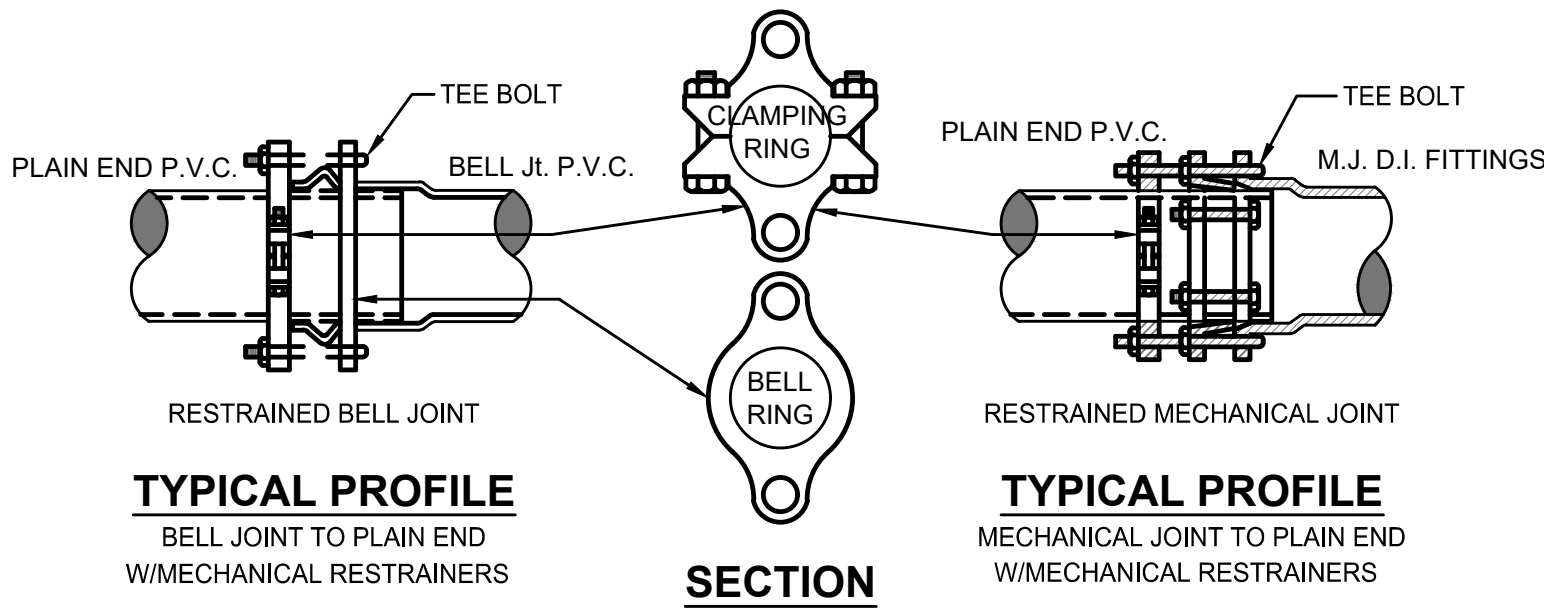
TEES SEE NOTE 5		
RUN SIZE (IN.)	BRANCH SIZE (IN.)	L (FT.)
4	4	F.O.
4	6	10
4	4 < LESS	F.O.
8	8	29
8	6 < LESS	F.O.
10	10	45
10	8	13
10	6 < LESS	F.O.
12	12	62
12	10	32
12	8 < LESS	F.O.
16	16	94
16	12	39
16	10	5
16	10 < LESS	F.O.
20	20	125
20	16	76
20	12	14
20	10 < LESS	F.O.
24	24	124
24	20	84
24	16	36
24	12 < LESS	F.O.
30	30	159
30	24	104
30	20	60
30	16	5
30	16 < LESS	F.O.
36	36	192
36	30	142
36	24	83
36	20	33
36	16 < LESS	F.O.
42	42	223
42	36	178
42	30	124
42	24	59
42	20	5
42	16 < LESS	F.O.
48	48	253
48	42	209
48	36	162
48	30	104
48	24	34
48	20 < LESS	F.O.

F.O. = FITTING ONLY

PVC PIPE RESTRAINT JOINT SCHEDULE

JANUARY 2020

PLATE W-31A



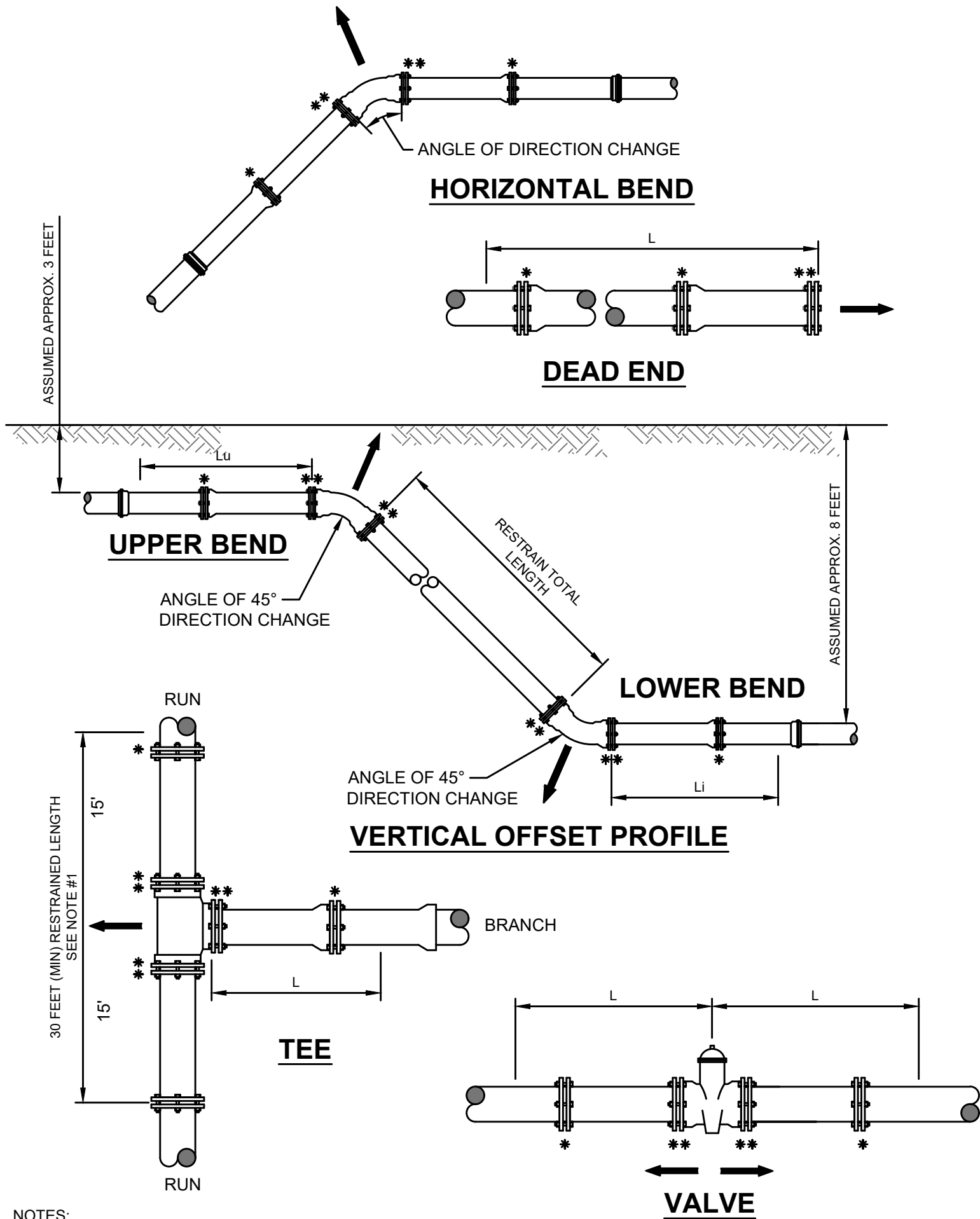
GENERAL NOTE:

- PAY ITEM *** DENOTES A RESTRAINT WHICH IS PAID FOR ON A PER EACH BASIC.
- 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



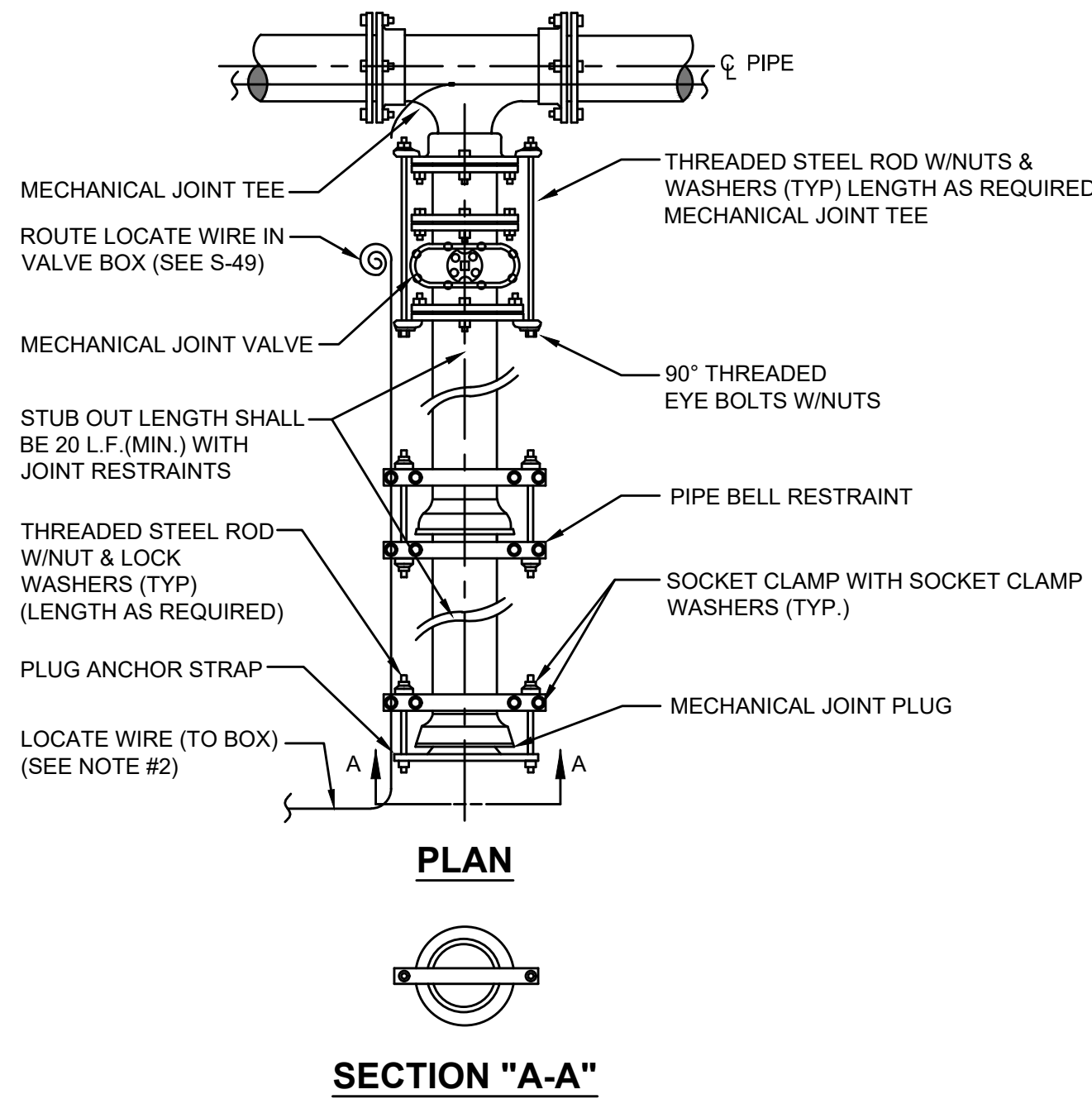
NOTES:

- 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 BASIC.
- 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



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 W-37

Connelly & Wicker Inc.
Planning · Engineering · Landscape Architecture
10860 Summer Lake Drive, Suite 500 Jacksonville, Florida 32246
(904) 285-3050 Fax: (904) 285-3051 www.cweng.com
C/A Number: 3650 L/A Number: LC20000311

DESIGN ENGINEER
AUTUMN HUBSCH
FLORIDA REGISTRATION NO.
PE NO. 72939

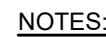
DRAWN BY: AMH
CHECKED BY: JEW
DATE:

JEA
Building Community

WATER AND SEWER DETAILS

PROJ. NO. 20-01-0065
DATE: JUNE 2024
SCALE: N.T.S.

SHEET NO.
DRAWING NO.





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.  INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH A WATERPROOF CONNECTION. (SEE DETAIL W-44B)
7.  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.

PLATE W-44



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 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.
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 S-49B. WIRE CONNECTIONS BELOW GROUND (OUTSIDE OF A BOX) SHALL BE AVOIDED.
5. LOCATING WIRE SHALL BE 12 GAUGE COPPER WIRE WITH 30 INCHES (MINIMUM) HDPE INSULATION THICKNESS, 0.141 INCHES (MINIMUM) O.D. RATED BREAK LOAD 250LBS., IF RATED (DIRECT BURIAL), GREEN COLOR. FOR HDD INSTALLATIONS, THE LOCATE WIRE SHALL BE COPPER CODED STEEL AS SPECIFIED IN SPEC. SECTION 750.
6.  INDICATES THAT THE WIRES ARE CONNECTED TOGETHER WITH WATERPROOF CONNECTION. (SEE DETAIL W-49B)
7.  INDICATES A WIRE PIG-TAIL (24" LONG)
8. AN "LW" CUT SHALL BE CARVED IN THE CONCRETE CURB AND PAINTED AT ALL LOCATE WIRE BOXES.
9. 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.

PLATE S-49



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



(3" OR LARGER SERVICE)

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.

PLATE W-44A



(4" AND LARGER SEWER MAIN)

NOTE


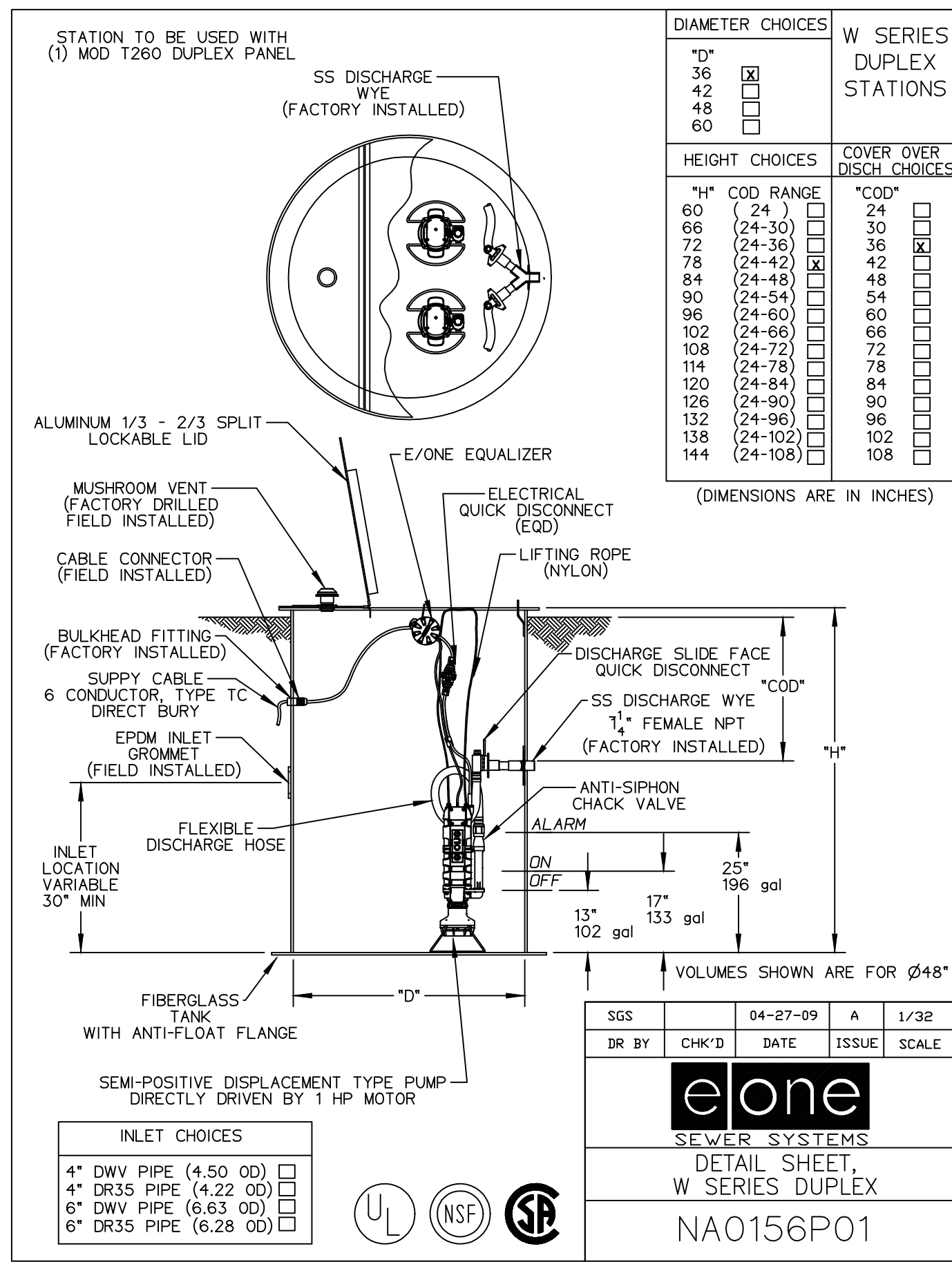
1. NOTE THAT THE BRANCH WIRE IS NOT CONNECTED TO THE MAIN WIRE.
2. LOCATE WIRE SHALL ENTER THE VALVE BOX THROUGH A "V" CUT IN THE 6" PVC RISER PIPE SECTION (SEE S-30).
3. LOCATE WIRE BOX SHALL BE INSTALLED OUTSIDE OF SIDEWALKS, DRIVEWAYS AND PAVEMENT.
4.  INDICATES A WIRE PIG-TAIL (4' LONG)

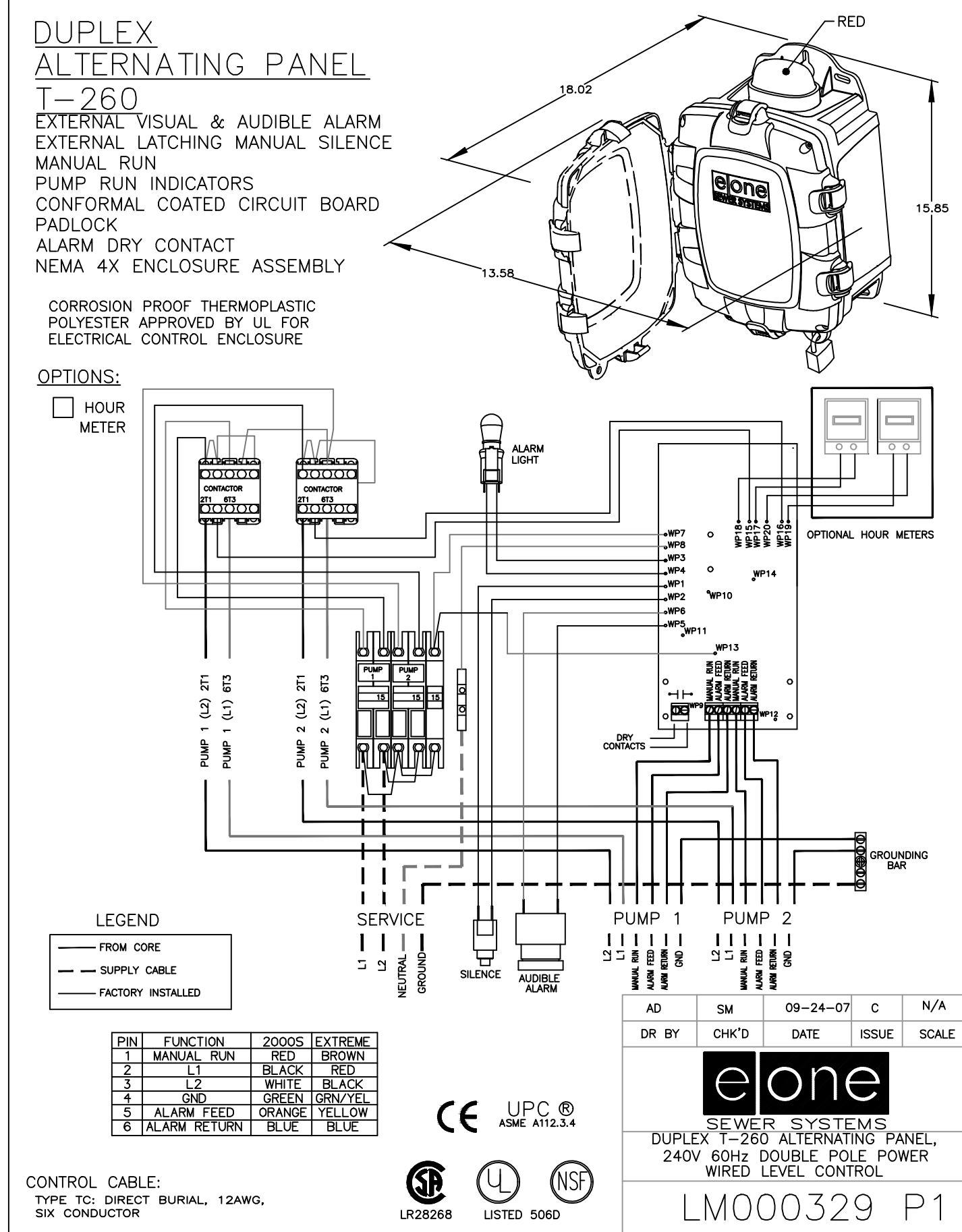
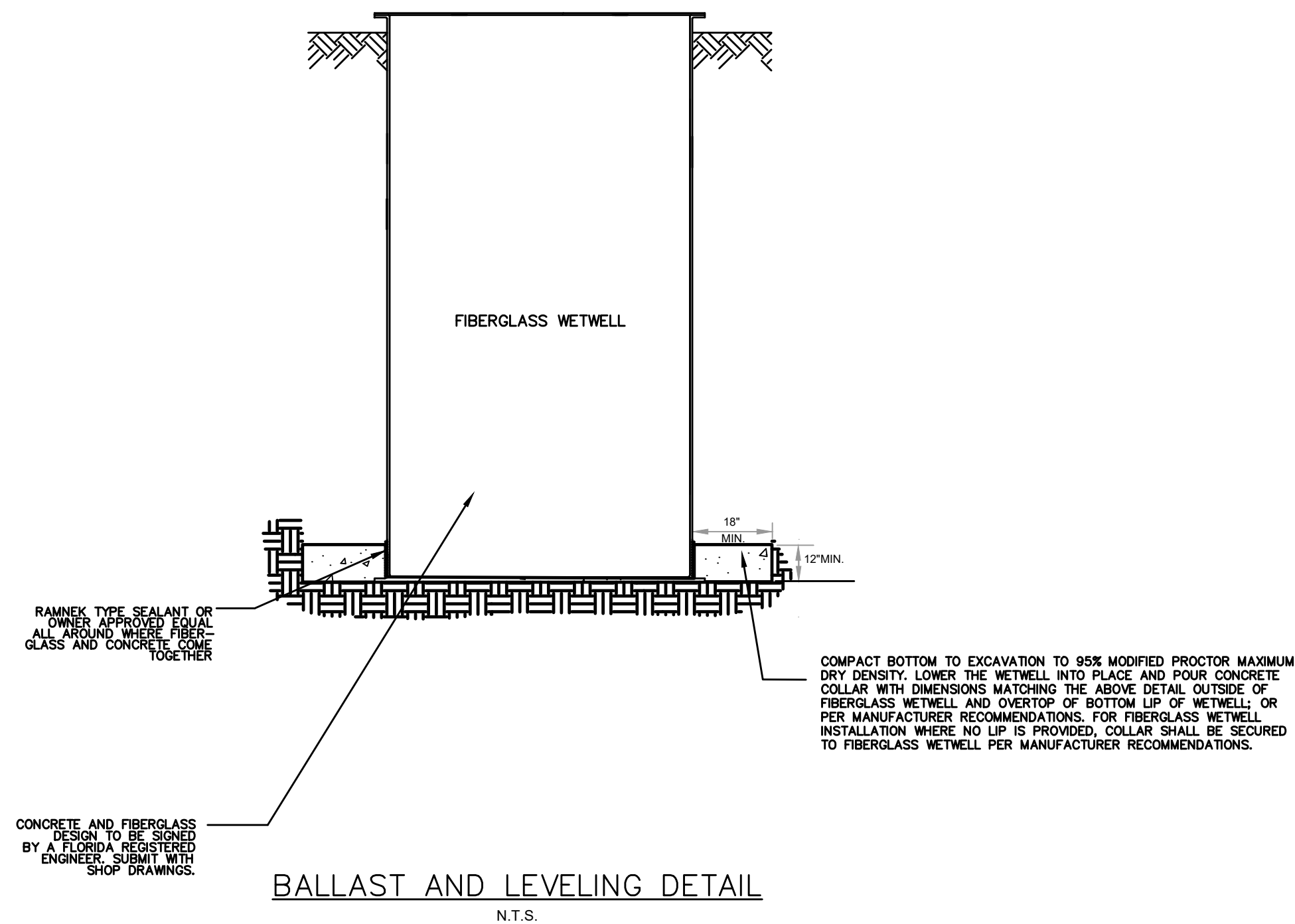
PLATE S-49A



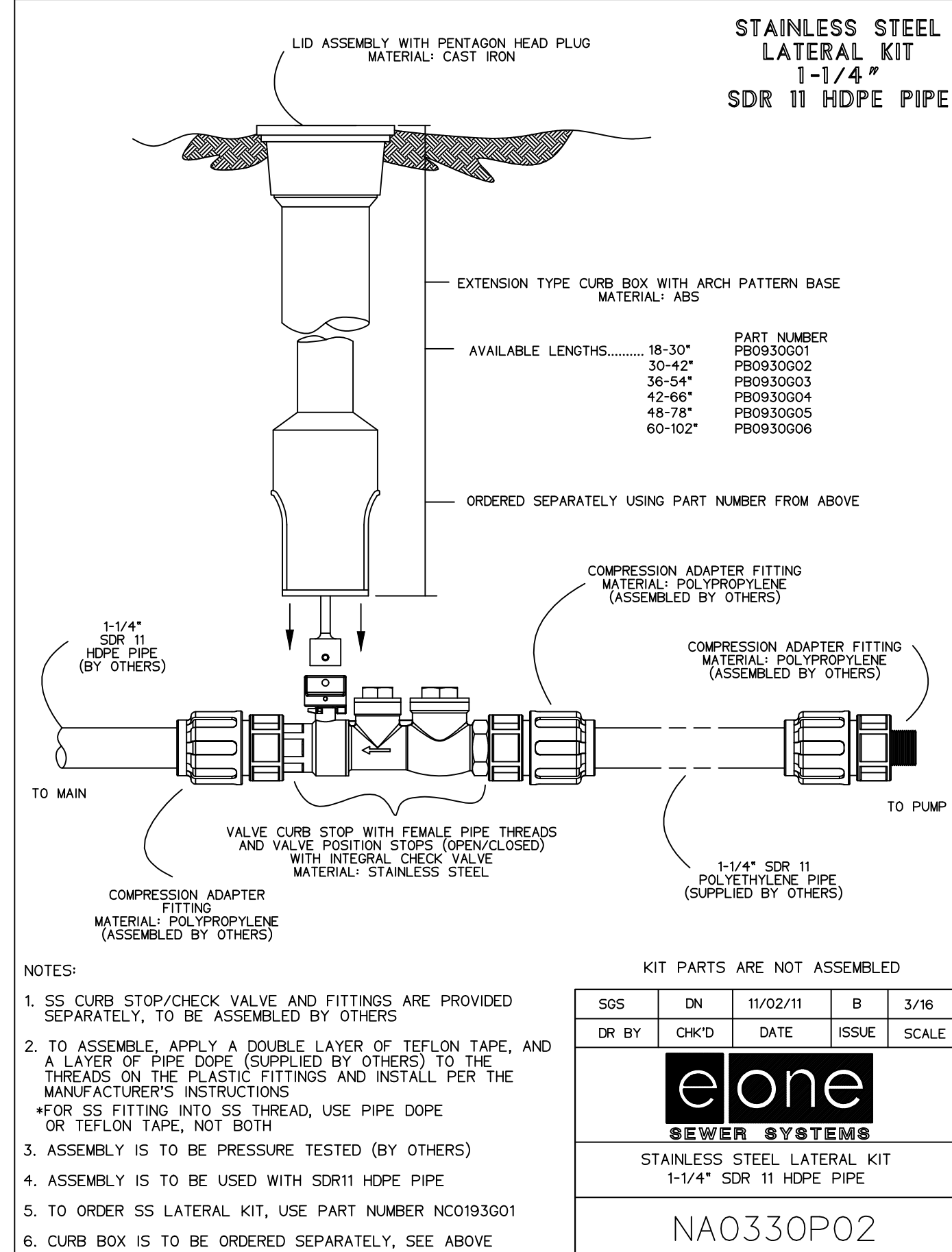
PLATE W-44E



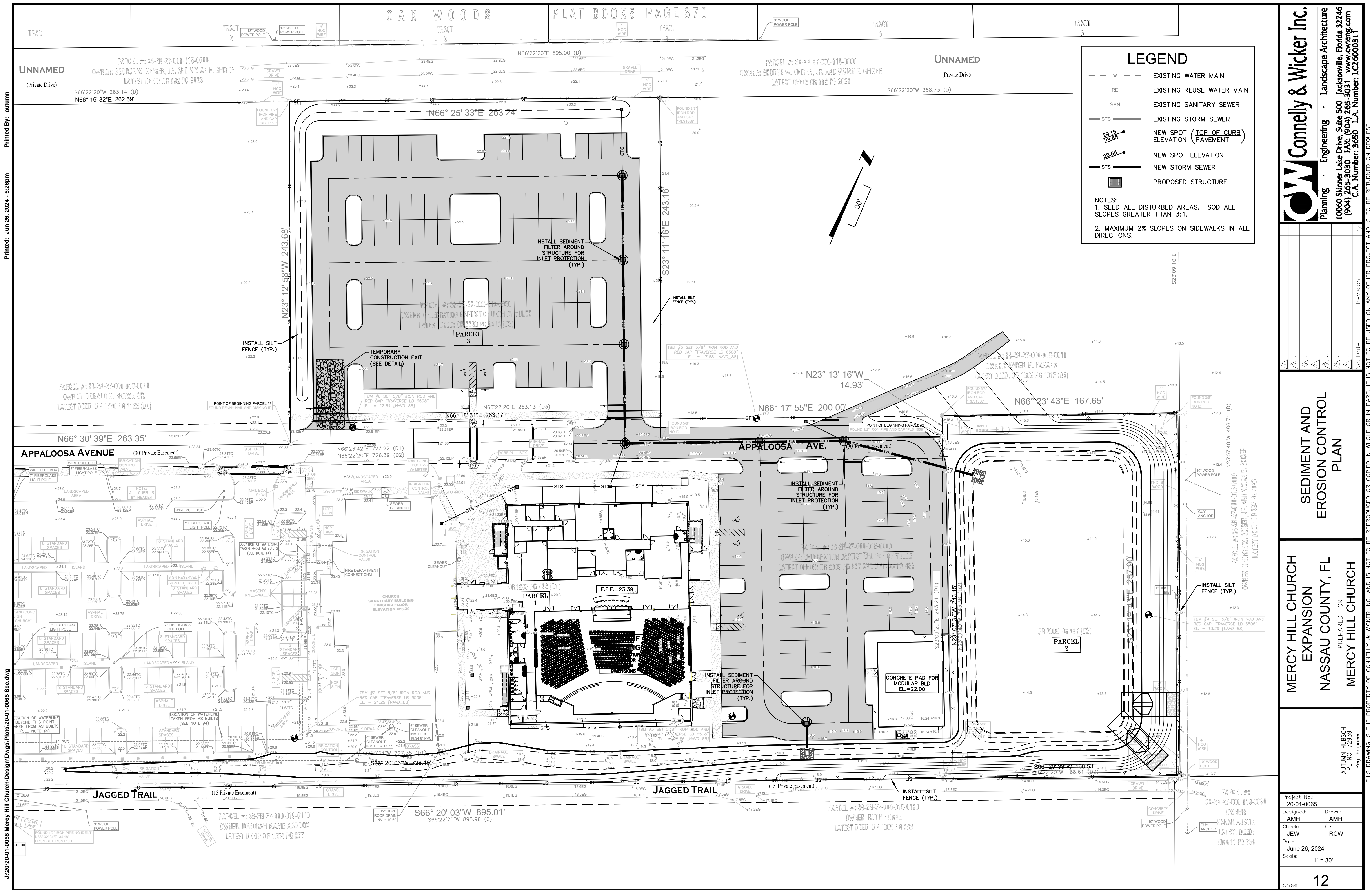
WET WELL SECTION
N.T.S.



ALARM PANEL
N.T.S.



LATERAL KIT
N.T.S.



SEDIMENT AND EROSION CONTROL PLAN

MERCY HILL CHURCH
EXPANSION
NASSAU COUNTY, FL
PREPARED FOR
MERCY HILL CHURCH

PE NO. 72939
Reg. Engineer
S DRAWING IS TI

Project No.: 20-01-0065	
Designed: AMH	Drawn: AMH
Checked: JEW	O.C.: RCW
Date: June 26, 2024	
Scale: 1" = 30'	

<p>Project No.: 20-01-0065</p> <p>Designed: AMH</p> <p>Checked: JEW</p> <p>Date: JUNE 2024</p> <p>Scale:</p>		<p>Drawn: AMH</p> <p>0.5"</p> <p>RCW</p>	
<p>AUTUMN HUBSCH PE NO. 72539 Reg. Engineer</p>		<p>1" = ##'</p>	
<p>MERCY HILL CHURCH EXPANSION</p>		<p>STORMWATER POLLUTION PREVENTION PLAN</p>	
<p>NASSAU COUNTY, FL</p>		<p>PREPARED FOR MERCY HILL CHURCH</p>	
<p>Sheet</p>		<p>13</p>	

