

User: BST/CK Pro Date/Time: Sep. 24, 12:28:12 Drawing: V/010900 - 4110 NW Federal Hwy Jensen Beach, FL 010900-01-002 (END) - W. Jensen PUD-New Outparcel - Jensen Beach Engineering/Engineering Plans/Drawn/01-010900-01-002-COV.dwg

PROJECT TEAM

PROPERTY OWNER:

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CONTACT: KRISTHIAN MORALES

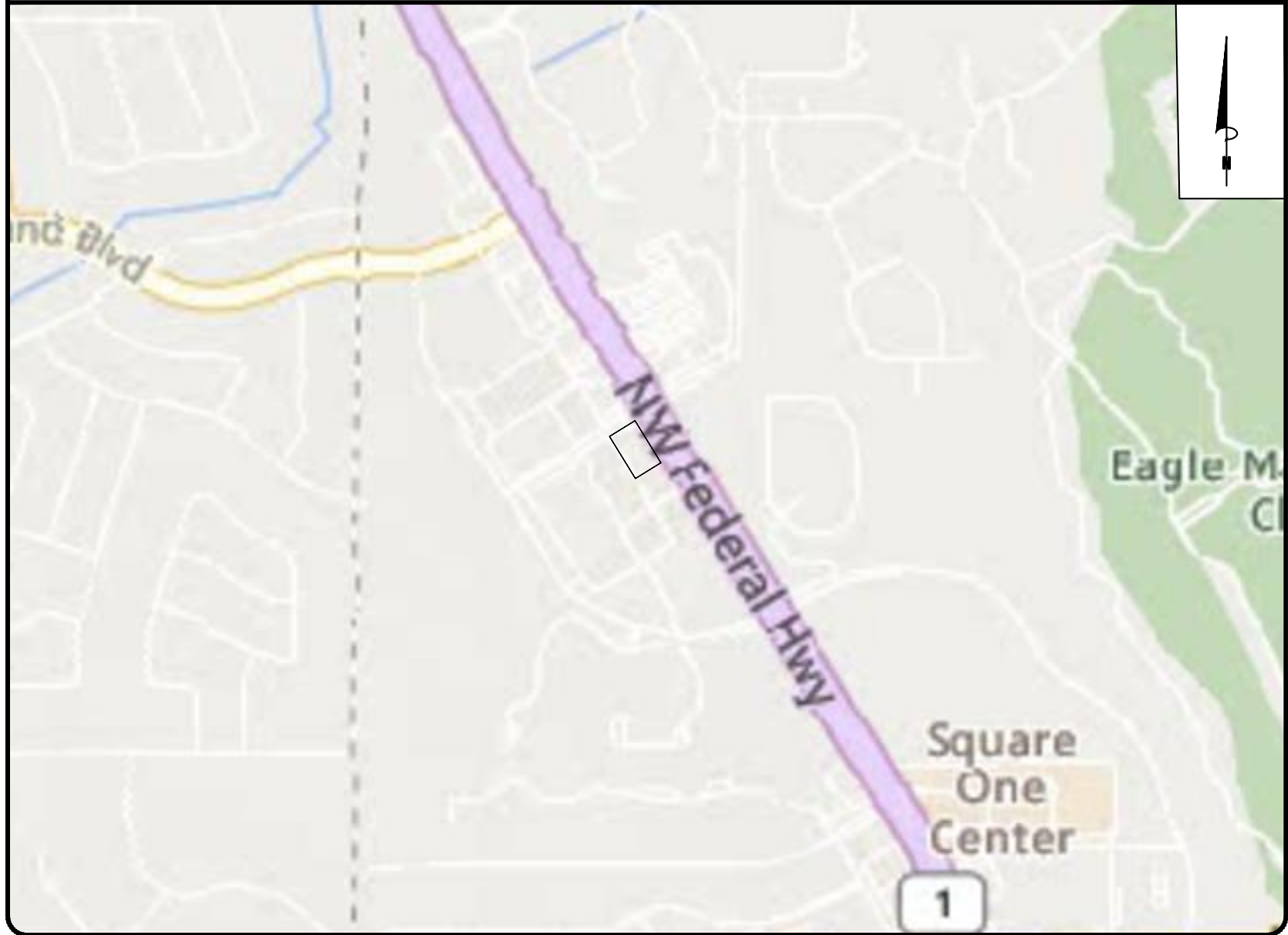
LANDSCAPE ARCHITECT:

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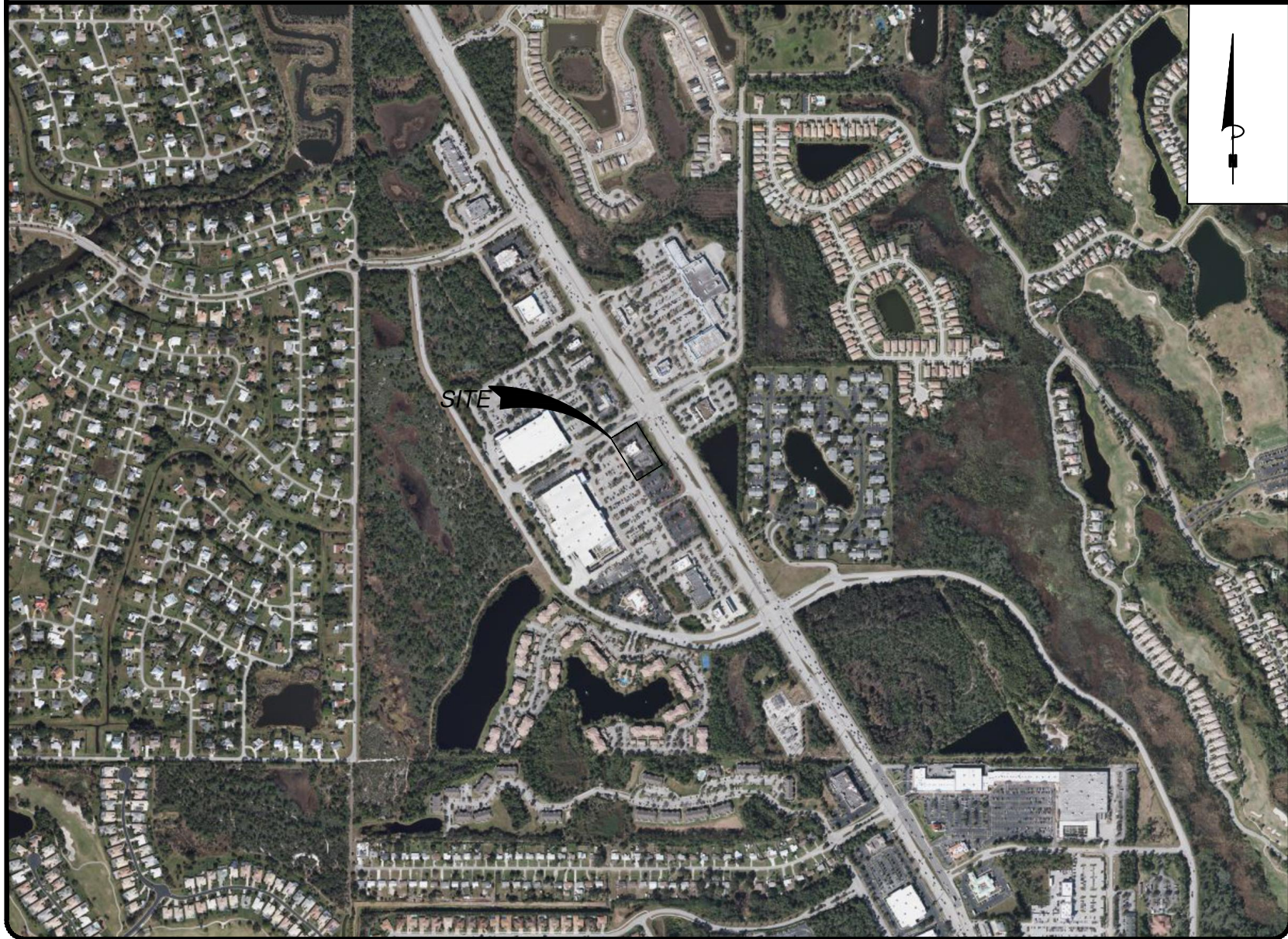
ARCHITECT:

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VICINITY MAP



AERIAL MAP



GENERAL NOTES

- CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE APPROVED PLANS AND THE APPROPRIATE STANDARDS AND SPECIFICATIONS ALONG WITH A COPY OF ANY PERMITS AND AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.
- CONTRACTOR SHALL MEET OR EXCEED ALL SITE WORK SPECIFICATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS FOR ALL MATERIALS AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS IS ENCOUNTERED.
- NO REVISION SHALL BE MADE TO THESE PLANS WITH OUT THE APPROVAL OF THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- ANY REFERENCE TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.
- DESIGN IS IN ACCORDANCE WITH THE MOST RECENT MARTIN COUNTY AND SOUTH MARTIN REGIONAL UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATION MANUAL.
- ALL CONSTRUCTION IN THE FDOT ROW SHALL CONFORM TO THE LATEST EDITIONS OF THE FDOT DESIGN STANDARDS (INDEXES), THE FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FDOT UTILITY ACCOMMODATION MANUAL.

LEGAL DESCRIPTION

ALL OF WEST JENSEN PUD, PHASE 1B PLAT OF PARCEL 12.7, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 15, PAGE 61, OF THE PUBLIC RECORDS OF MARTIN COUNTY, FLORIDA.

FLOOD ZONE NOTE

FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; MAP COMMUNITY #120161, PANEL # 0020, SUFFIX G; MAP DATE: 03/16/2015.

DATUM NOTE

THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (N.A.V.D. 88)

- STATION IS A MARTIN COUNTY MAG NAIL AND BLUE ALUMINUM WASHER (US-D). LOCATED ABOUT 0.78 NORTHWESTERLY OF JENSEN BEACH BOULEVARD AT THE NORTHWEST CORNER OF INTERSECTION U.S. HIGHWAY NO.Q AND EUGENIA STREET. 17.3' SOUTHWESTERLY OF THE WESTERLY EDGE OF PAVEMENT OF EUGENIA STREET. SET IN THE EASTERLY SIDE OF A CONCRETE BASE FOR A TRAFFIC SIGNAL POLE AT THE WELLS FARGO BANK. EL. 14.54' (NAVD88)
- TBM #1 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 5.0' SOUTHWEST OF THE NORTHEAST CORNER OF SUBJECT PARCEL. EL. 14.47' (NAVD88)
- TBM #2 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 29.6' NORTHWEST OF THE SOUTHWEST CORNER OF SUBJECT PARCEL. EL. 14.60' (NAVD88)

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Bowman

CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

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COVER SHEET

WEST JENSEN PUD, PHASE 1B

PARCEL 12.7

FIFTH THIRD BANK

4110 NW FEDERAL HWY.

JENSEN BEACH, FL 34957

MARTIN COUNTY, FL

010900-01-002
BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421

PLAN STATUS

01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION

BD DESIGN	BD DRAWN	WEP CHKD
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JOB No. 010900-01-002

DATE: 9/23/2024

FILE: 01-010900-01-002-COV.dwg

SHEET

C-1.0

GENERAL NOTES

CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTORS SHALL BE RESPONSIBLE TO ENSURE CONFORMANCE TO THESE REQUIREMENTS BY ALL SUBCONTRACTORS.

1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN.

•BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY EBI SURVEYING, DATED 10/25/2022

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE.

2. ALL HANDICAPPED PARKING SPACES SHALL BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE 211.5.5, 2101 ET. SEC. AND 42 U.S.C. § 4151 ET. SEC.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THIS PROJECT IS TO BE CONSTRUCTED.

3. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITIES. CONTRACTOR SHALL HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.

4. THE OWNER/CONTRACTOR SHALL BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE REQUIREMENTS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES HAVING JURISDICTION OVER THIS PROJECT.

6. THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DISCREPANCY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.

7. THE BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED BY EBI SURVEYING, DATED 10/25/2022 SHALL BE CONSIDERED A PART OF THESE PLANS.

8. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOWMAN BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOWMAN IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.

9. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO THE GIVING OF SUCH NOTIFICATION AND THE ENGINEER'S WRITTEN AUTHORIZATION OF SUCH ADDITIONAL WORK.

10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS,PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY LOCATIONS.

11. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ANY MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER OF ANY DISCREPANCIES.

12. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.

13. THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT AND CONTIGUOUS STRUCTURES.

14. THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM ANY MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, ETC. WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA.

15. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPPING, CURB, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REPLACE ALL SIGNAL, INTERSECTION LIGHTS, WIRING, CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY SHALL RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE EXISTING CONDITIONS, AND IN CONFORMANCE WITH APPLICABLE CODES. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.

16. ALL CONCRETE SHALL HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.

17. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS / MEANS FOR COMPLETION OF THE WORK DEPICTED NEITHER ON THESE PLANS, NOR FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

18. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY NOR HAS THE ENGINEER OF RECORD BEEN RETAINED FOR SUCH PURPOSES.

19. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYERS LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (COL). ALL CONTRACTORS MUST HAVE THEIR COL POLICIES ENDORSED TO NAME BOWMAN, AND ITS SUB-CONSULTANTS AS ADDITIONAL NAMED INSURERS AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOWMAN WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION. IN ADDITION, CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS BOWMAN AND ITS SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES, LIABILITIES OR COSTS, INCLUDING REASONABLE ATTORNEYS' FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS.

20. BOWMAN WILL REVIEW AND APPROVE OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. BOWMAN SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT BOWMAN HAS REVIEWED THAT ENTIRE ASSEMBLY OF WHICH THAT ITEM IS A COMPONENT. BOWMAN WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. BOWMAN WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OR CORRELATED ITEMS HAVE NOT BEEN RECEIVED.

21. NEITHER THE PROFESSIONAL ACTIVITIES OF BOWMAN, NOR THE PRESENCE OF BOWMAN OR ITS EMPLOYEES AND SUB-CONSULTANTS AT A CONSTRUCTION PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACTOR DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. BOWMAN AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE GENERAL CONTRACTOR AND SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. BOWMAN SHALL BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND SHALL BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE.

22. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR

SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED BY BOWMAN FOR ANY WORK THAT AFFECTS PUBLIC TRAVEL, EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM SHOULD BE INCLUDED IN THE CONTRACTORS PRICE.

23. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL, EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM SHOULD BE INCLUDED IN THE CONTRACTORS PRICE.

24. IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED THEREON, WITHOUT FIRST OBTAINING PRIOR WRITTEN AUTHORIZATION FOR SUCH DEVIATIONS FROM THE OWNER AND ENGINEER, IT SHALL BE RESPONSIBLE FOR THE PAYMENT OF ALL COSTS TO CORRECT ANY WORK DONE, ALL FINES OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM. THE CONTRACTOR SHALL INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ALL SUCH COSTS TO CORRECT ANY SUCH WORK AND FROM ALL SUCH FINES AND PENALTIES, COMPENSATION AND PUNITIVE DAMAGES AND COSTS OF ANY NATURE RESULTING THEREFROM.

25. CONTRACTOR SHALL CONFIRM ADA ACCESSIBILITY PRIOR TO INSTALLING FINISHING COURSES OF SIDEWALKS AND PARKING AREAS.

26. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER AND THE ENGINEER OF RECORD.

27. ALL UTILITY EASEMENTS TO BE SECURED PRIOR TO CONSTRUCTION (IF REQUIRED) PRIOR TO CERTIFICATE OF OCCUPANCY. THESE EASEMENTS SHALL BE SKETCHED, DESCRIBED, AND RECORDED AT THE SOLE COST OF THE CONTRACTOR.

28. CONTRACTOR SHALL PROVIDE MINIMUM 48 HOUR NOTICE TO ENGINEER AND APPLICABLE AGENCIES FOR SCHEDULING INSPECTIONS.

29. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD AND MARTIN COUNTY FOR THE FOLLOWING: CATCH BASINS, FIRE HYDRANTS, VALVES, AND ALL REQUIRED ACCESSORIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

30. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY.

31. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND APPROVED BY MARTIN COUNTY WHERE APPLICABLE TO PRIOR TO IMPLEMENTATION.

32. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

33. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION FROM MARTIN COUNTY.

34. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR ANY NECESSARY CONSTRUCTION, PAVEMENT MARKING AND SIGNAGE OR ANY PEDESTRIAN SIGNALIZATION OR SIGNAL MODIFICATION TO ACCOMMODATE AN ALTERNATE SAFE WALK ROUTE. ALL RESTORED TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S TRAFFIC ENGINEERING STANDARDS.

35. PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE ENGINEERING DEPARTMENT'S PRE-CONSTRUCTION MEETING FOR SITE DEVELOPMENT

SANITARY NOTES

A. GENERAL:

1. DISTANCE AND LENGTHS SHOWN ON PLANS REFERENCE THE CENTER OF STRUCTURES.

B. MATERIALS:

1. ALL PVC SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS, (24" SHALL BE DR-25)

2. DUCTILE IRON PIPE (DIP) SHALL BE CEMENT OR POLYURETHAN INSIDE AND SHALL HAVE A COAL TAR EPOXY COATING, MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-86 OR LATEST REVISION, MINIMUM WALL THICKNESS CLASS 52 (4"-12") & CLASS 51 (14"-20") (UNLESS OTHERWISE SPECIFIED).

3. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.

C. INSTALLATION:

1. PIPE AND FITTINGS:

a. SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, AND THE UN-BELL PLASTICS PIPE ASSOCIATION'S RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE.

b. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-93 OR LATEST REVISION.

c. BEDDING AND INITIAL BACKFILL (12 INCHES) OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCKS LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF MARTIN COUNTY. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" DIAMETER.

D. SERVICE:

a. MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE AS INDICATED IN THE FLORIDA BUILDING CODE.

b. SERVICE LATERALS SHALL TERMINATE AT A DEPTH 30" BELOW FINISHED GRADE A/R AS INDICATED ON PLUMBING PLAN.

c. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE PAINTED RED, EXTENDING 18" (MIN) ABOVE GRADE.

d. EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.

e. CONTRACTOR SHALL ROUGH IN RISER TO 1' FOOT ABOVE FINISHED GRADE AND PLUG AT PROJECT COMPLETION, CUT BACK TO FINISHED GRADE.

f. CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE CITY'S BUILDING AND ZONING DEPARTMENT, PLUMBING SECTION.

D. TESTING:

1. AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE SEWER SYSTEM OR ANY PART THEREOF.

2. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST

3. MANHOLE LEAKAGE TEST SHALL NOT EXCEED FOUR GALLONS PER DAY PER UNIT. NO VISIBLE LEAKAGE ALLOWED.

4. SEWER PIPE LEAK ALLOWABLE SHALL NOT EXCEED 150 GALLONS PER DAY PER INCH DIAMETER PER MILE IN A TWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED AND ALL LINES SHALL BE T.V. INSPECTED.

5. SANITARY SEWER SHALL BE TELEVISED AND LAMPED AT DEVELOPER'S EXPENSE. PRIOR TO FINAL ACCEPTANCE, OWNER/ CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO CERTIFICATION TO ANY AGENCY.

6. VISIBLE INFILTRATION LEAKAGE INTO MANHOLES AND SEWER PIPE SHALL NOT BE PERMITTED.

WATER DISTRIBUTION AND/OR SANITARY SEWER FORCE MAIN SYSTEM

A. GENERAL:

1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL

PRESSURE TESTS, FOR THE WATER AND SEWER FORCE MAINS, AND SANITARY LOGICAL TESTS HAVE BEEN PERFORMED AND THE SYSTEM IS ACCEPTABLE TO THE SOUTH MARTIN REGIONAL UTILITY DEPARTMENT AND THE MARTIN COUNTY PUBLIC HEALTH UNIT.

2. BEDDING AND INITIAL BACKFILL FOR MAINS SHALL BE SAND WITH NO ROCKS LARGER THAN 1" IN DIAMETER.

3. USE "DETECTO" TAPE ON ALL PVC MAINS (18" ABOVE), AND USE "NON-DETECTO" TAPE ON ALL D.I.P. MAINS (18" ABOVE).

4. A THREE (3) FOOT HORIZONTAL SEPARATION IS REQUIRED BETWEEN WATER MAINS AND OBSTRUCTIONS (I.E. CATCH BASINS, POWER POLES, ETC.). FIVE (5) FOOT OF SEPARATION IS REQUIRED BETWEEN WATER MAINS AND TREES.

5. ANY UTILITY EASEMENTS COVERING WWS UTILITIES WILL BE PROCESSED FOLLOWING WWS REQUIREMENTS.

B. MATERIALS:

1. DUCTILE IRON PIPE (DIP) SHALL BE CLASS 52 UP TO 12" SIZE & CLASS 51 FOR 14" AND LARGER WITH INTERIOR CEMENT LINING AND BITUMINOUS COATED OUTSIDE. WATER MAIN & EPOXY LINED & COATED FORCE MAIN MANUFACTURED IN ACCORDANCE WITH ANSI/AWWA C151/A21.51-81 OR LATEST REVISION. THE PIPE SHALL WITHSTAND A WORKING PRESSURE OF 350 PSI. THE JOINTS SHALL BE BELL AND SPIGOT PUSH-ON TYPE UNLESS OTHERWISE NOTED ON THE PLANS.

2. ALL PVC MAINS SHALL BE SERIES 1120, CLASS 150 (OR 18) PRESSURE PIPE CONFORMING TO ANSI/AWWA C900-89 OR LATEST REVISION, AND SHALL HAVE PUSH-ON JOINTS, AND IRON PIPE O.D. (PVC ON SITE ONLY)

3. FITTINGS FOR MAINS 4" AND LARGER SHALL BE DUCTILE IRON MECHANICAL JOINT CONFORMING TO ANSI/AWWA C110/A21.10-93 OR LATEST REVISION. COMPLETE WITH GLANDS, GASKETS, BOLTS AND NUTS. ALL FITTINGS SHALL BE CEMENT LINED AND SEAL COATED WITH THE SAME MATERIALS AS THE PIPE & USE MEGALUG SERIES 1100 RESTRAINED JOINT ADAPTERS.

4. VALVES SHALL BE GATE VALVES, IRON BODY, FULLY RESILIENT SEAT BRONZED MOUNTED NON-RISING STEM, RATED AT 200 PSI AND CONFORMING TO ANSI/AWWA C500-87 OR LATEST REVISION, AND SHALL HAVE MECHANICAL JOINTS.

a. GATE VALVES 4" AND LARGER SHALL BE MUELLER A-2360-20, RESILIENT SEATED GATE VALVES SHALL BE AMERICAN 500/2500 LINE OR CLOW F-6100, CONFORMING TO ANSI/AWWA C509-87.

b. TAPPING VALVES SHALL BE MUELLER H607 OR APPROVED EQUAL.

c. GATE VALVES 3" OR LESS SHALL BE NIBCO T-133 OR T-136 WITH MALLEABLE HUB WHEELS. NO SUBSTITUTIONS ALLOWED.

5. TAPPING SLEEVES SHALL BE MUELLER H615 OR APPROVED EQUAL PER MARTIN COUNTY.

6. VALVE BOXES SHALL BE TYLER/UNION 461-S OR APPROVED EQUAL PER MARTIN COUNTY.

7. RETAINER GLANDS SHALL CONFORM TO ANSI/AWWA C111/A21.11-90, OR LATEST REVISION. ALL GLANDS SHALL BE MANUFACTURED FROM DUCTILE IRON AS LISTED BY UNDERWRITERS LABORATORIES FOR 250 PSI MINIMUM WATER PRESSURE RATING. CLOW CORPORATION MODEL P-1058 OR STANDARD FIRE PROTECTION EQUIPMENT COMPANY OR APPROVED EQUAL.

8. DRESSER COUPLINGS SHALL BE REGULAR BLACK COUPLINGS WITH PLAIN GASKETS FOR GALVANIZED STEEL PIPE. THEY SHALL BE DRESSER STYLE 90. NO SUBSTITUTIONS ALLOWED.

9. FIRE HYDRANTS SHALL HAVE A 1/4" MAIN VALVE OPERING, PUMPER, NOZZLE TO BE 18" FROM FINISH GRADE. ALL HYDRANTS TO BE INSTALLED WITH ANCHORING TIE AND CONTROL VALVE. FIRE HYDRANT SHALL COMPLY WITH ANSI/AWWA C500-85 (OR LATEST REVISION). HYDRANTS SHALL BE KENNEDY GUARDIAN K-814 OR APPROVED EQUAL. BLUE REFLECTIVE PAVEMENT MARKER REQUIRED IN CENTER OR NEAREST DRIVING LANE FOR FIRE HYDRANTS.

10. ALL WATER MAIN PIPE, INCLUDING FITTINGS, INSTALLED ON OR AFTER AUGUST 28, 2003, EXCEPT FOR THE WATER MAINS FOR CONSTRUCTION FOR WHICH THE DEPARTMENT RECEIVED A COMPLETE APPLICATION BEFORE AUGUST 28, 2003, SHALL BE COLOR CODED OR MARKED USING BLUE AS A PREDOMINANT COLOR TO DIFFERENTIATE DRINKING WATER FROM RECLAIMED OR OTHER WATER. UNDERGROUND PLASTIC PIPE SHALL BE SOLID-WALL BLUE. PIPE SHALL HAVE A CO-EXTRUDED BLUE EXTERNAL SKIN, OR SHALL BE WHITE OR BLACK PIPE WITH BLUE STRIPS INCORPORATED INTO, OR APPLIED TO THE PIPE WALL, AND UNDERGROUND METAL OR CONCRETE PIPE SHALL HAVE BLUE STRIPS APPLIED TO THE PIPE WALL. PIPE STRIPED DURING MANUFACTURING OF THE PIPE SHALL HAVE CONTINUOUS STRIPES THAT RUN PARALLEL TO THE AXIS OF THE PIPE, THAT WILL BE LOCATED AT NO GREATER THAN 90-DEGREE INTERVALS AROUND THE PIPE, AND THAT WILL REMAIN INTACT DURING AND AFTER INSTALLATION OF THE PIPE. IF TAPE OR PAINT IS USED TO STRIPE PIPE DURING INSTALLATION OF THE PIPE, THE TAPE OR PAINT SHALL BE APPLIED IN A CONTINUOUS LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE AND THAT IS LOCATED ALONG THE TOP OF THE PIPE. FOR PIPES WITH AN INTERNAL DIAMETER OF 24 INCHES OR GREATER, TAPE OR PAINT SHALL BE APPLIED IN CONT. LINES ALONG EACH SIDE OF THE PIPE AS WELL AS ALONG THE TOP.

C. SERVICE CONNECTION:

1. CORPORATION STOPS SHALL BE MANUFACTURED OR BRASS ALLOY IN ACCORDANCE WITH ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER ENDS, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.

2. CURB STOPS SHALL BE MUELLER APPROVED OR EQUAL.

3. METER STOPS SHALL BE 90° LOCK WING TYPE AND SHALL BE OF BRONZE CONSTRUCTION IN ACCORDANCE WITH ASTM B-82. METER STOPS SHALL BE CLOSED BOTTOM DESIGN AND RESILIENT "O" RING SEALED AGAINST EXTERNAL LEAKAGE AT THE TOP. STOPS SHALL BE EQUIPPED WITH A METER COUPLING NUT ON THE OUTLET SIDES, AS MANUFACTURED BY MUELLER OR APPROVED EQUAL.

4. SERVICE PIPING SHALL BE TYPE "K" DRAWN COPPER.

D. INSTALLATION:

1. GENERAL:

CONNECTION OF ALL NEW SYSTEMS TO EXISTING MAINS SHALL BE DONE BY USING ONE OF THE FOLLOWING METHODS:

a. METHOD A WHICH INVOLVES A REDUCED SIZE TEMPORARY CONNECTION BETWEEN THE EXISTING MAIN AND THE NEW ONE.

b. METHOD B WHICH INVOLVES A DIRECT CONNECTION BETWEEN THE NEW AND EXISTING MAINS USING TWO GATE VALVES SEPARATED BY A SLEEVE WITH A VENT PIPE.

c. WHICH INVOLVES A TAP WITH ONE GATE VALVE REQUIRING DISINFECTION OF THE NEW SYSTEM PRIOR TO CONDUCTING THE PRESSURE TEST.

2. BEDDING:

BEDDING AND INITIAL BACKFILL (12 INCHES ABOVE PIPE) FOR ALL PIPES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS AT THE DISCRETION OF THE MARTIN COUNTY ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.

3. PVC PIPE:

a. PVC PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE UN-BELL PLASTIC PIPE ASSOCIATION'S GUIDE FOR INSTALLATION OF PVC PRESSURE PIPE FOR MUNICIPAL WATER DISTRIBUTION SYSTEMS.

b. PVC PIPE SHALL BE INSTALLED WITH A MINIMUM 36" COVER

c. DETECTOR TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL PVC MAINS APPROXIMATELY 18" ABOVE THE PIPE, COLOR SIDE UP.

d. DUCTILE TAPE:

a. D.I.P. SHALL BE INSTALLED IN ACCORDANCE WITH ANSI/AWWA C600-99 OR LATEST REVISION.

b. D.I.P. SHALL BE INSTALLED WITH A MINIMUM OF 30" COVER

c. "NON-DETECTOR" TAPE SHALL BE INSTALLED THE FULL LENGTH OF ALL D.I.P. MAINS APPROXIMATELY 18" ABOVE THE MAIN, COLOR SIDE UP.

5. VALVES:

a. ALL VALVES SHALL BE INSTALLED WITH ADJUSTABLE CAST IRON VALVE BOXES WITH THE WORD "WATER" OR "SEWER" CAST IN THE COVER, A BRASS DISK INDICATING, SIZE, TYPE, KIND & OPERATOR INSTRUCTIONS SHALL BE INSTALLED ADJACENT TO VALVE BOX.

b. MAIN VALVES SHALL BE LOCATED ON AN EXTENSION OF THE RIGHT-OF-WAY LINE UNLESS DIMENSIONED OTHERWISE.

c. MAIN VALVES SHALL BE INSTALLED AWAY FROM PARKING AREAS. IF THIS IS UNAVOIDABLE, PROPER MEASURES SHALL BE TAKEN TO AVOID THE PARKING OF VEHICLES OVER THE VALVES. HYDRANT VALVES SHALL BE INSTALLED AS CLOSE TO THE MAIN AS POSSIBLE. VALVES LOCATED IN NON-PAVED AREAS OR IN PARKING STALLS REQUIRE A REFLECTIVE PAVEMENT MARKER ON THE CENTER OF

THE NEAREST LANE OF ROAD PAVEMENT. WHITE REFLECTORS FOR THE WATER MAIN VALVES, GREEN REFLECTORS FOR FORCE MAIN VALVES.

d. THE DISTANCE FROM THE TOP OF THE VALVE ACTUATOR NUT TO FINAL GRADE SHALL BE A MINIMUM OF 12 INCHES AND A MAXIMUM OF 18 INCHES

6. SERVICE:

a. COVER OVER SERVICE LINES SHALL BE 18" MINIMUM, 36" MAXIMUM BELOW FINISHED GRADE AND 36" UNDER PAVEMENT.

b. SERVICES UP TO 2" SHALL BE TYPE "K" COPPER PER MARTIN COUNTY.

c. METER STOPS SHALL HAVE 8" TO 10" COVER AS REQUIRED FOR PROPER METER/BOX INSTALLATION.

d. WATER SERVICES UNDER PAVEMENT SHALL BE ENCASED IN A SCHEDULE 80 PVC SLEEVE FOR THE FULL LENGTH OF THE PAVEMENT AND FOR 2' BEYOND THE EDGE. SLEEVE DIAMETER SHALL BE TWICE THE DIAMETER OF THE SERVICE PIPE.

e. THE END OF EACH SERVICE CONNECTION SHALL BE MARKED WITH A 2"x4" TREATED STAKE, PAINTED BLUE EXTENDING 18" (MINIMUM) ABOVE GRADE UNLESS INDICATED OTHERWISE.

E. TESTING

1. BEFORE ANY PHYSICAL CONNECTIONS TO THE EXISTING WATER MAINS ARE MADE, THE COMPLETE WATER SYSTEM SHALL BE PRESSURE TESTED AND DISINFECTED. HYDROSTATIC TESTING OF NEW MAINS SHALL BE PERFORMED AT A MINIMUM STARTING PRESSURE OF 150 PSI FOR TWO HOURS IN ACCORDANCE WITH ANSI/AWWA C600-99 OR LATEST REVISION. THE PRESSURE TEST SHALL NOT VARY MORE THAN ±5 P.S.I. DURING THE TEST.

2. THE PRESSURE TEST SHALL BE WITNESSED BY A REPRESENTATIVE OF THE MARTIN COUNTY AND THE ENGINEER OF RECORD.

3. BEFORE ACCEPTANCE FOR OPERATION, THE WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ANSI/AWWA C651-92. 150 PSI MINIMUM STARTING TEST PRESSURE, WITH NOTER LOGICAL SAMPLES APPROVED BY THE MARTIN COUNTY PUBLIC HEALTH DEPARTMENT.

4. SAMPLING POINTS SHALL BE PROVIDED AT THE LOCATIONS SHOWN ON THE PLANS, IF NOT SPECIFIED. SAMPLING POINTS SHALL BE PROVIDED AT INTERVALS OF 1200' MAXIMUM FOR LINES GREATER THAN 1200' IN LENGTH. PROVIDE A MINIMUM OF TWO SAMPLING POINTS FOR ALL OTHER TEST SEGMENTS. SAMPLE POINTS MUST BE APPROVED BY MARTIN COUNTY PUBLIC HEALTH DEPARTMENT

5. THE ALLOWABLE LEAKAGE SHALL BE LESS THAN THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FORMULA: $L = \frac{1000}{L \times 188.500}$

IN WHICH:

L= EQUALS THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.

S= EQUALS LENGTH OF PIPE (LINEAL FEET).

D= EQUALS NOMINAL DIAMETER OF PIPE (INCHES) AND

P= EQUALS THE MINIMUM TEST PRESSURE (POUNDS PER SQUARE INC

SEPERATION OF WATER AND SEWER MAINS

A. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, STORM SEWERS, AND FORCE MAINS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHENEVER POSSIBLE.

WHERE SANITARY SEWERS, STORM SEWERS, OR FORCE MAINS MUST CROSS A WATER MAIN WITH LESS THAN 18 INCHES VERTICAL DISTANCE, BOTH THE SEWER AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE

MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.

ALL CROSSING SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING).

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 18 INCHES VERTICAL DISTANCE, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE CROSSING SHALL BE ARRANGED TO MEET THE REQUIREMENTS ABOVE.

B. A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

C. ALL DIP SHALL BE CLASS 50 OR HIGHER. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE ENGINEER.

STORM DRAINAGE

A. GENERAL:

1. CATCH BASIN GRATES AND RIM ELEVATIONS AS SHOWN ON PLANS SHALL BE ADJUSTED TO CONFORM TO NEW OR EXISTING GRADES.

2. DISTANCES AND LENGTHS SHOWN ON PLANS REFERENCE THE CENTER OF STRUCTURES.

B. MATERIALS:

1. ALL HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M - 294 LATEST REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING. INSTALL FABRIC ON ALL PIPE JOINTS.

2. ALL YARD DRAIN BASINS ARE TO BE HIGH DENSITY POLYETHYLENE PRODUCT AND SHALL MEET ASTM LATEST MINIMUM STANDARDS.

3. ALL DRAINAGE CATCH BASINS AND STRUCTURES SHALL BE PRECAST CONCRETE AND SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-478 AND 64T UNLESS OTHERWISE NOTED IN THE PLANS. BLOCK CATCH BASINS WILL BE ALLOWED ONLY WITH APPROVAL OF THE ENGINEER. THE MINIMUM WALL AND SLAB THICKNESS SHALL BE 8 INCHES AND THE MINIMUM REINFORCING SHALL BE NO. 4 BARS AT 12 INCHES EACH WAY UNLESS OTHERWISE INDICATED. CONCRETE SHALL BE MINIMUM OF FC-3750 PSI AT 28 DAYS.

C. INSTALLATION:

1. PIPE SHALL BE PLACED ON A MINIMUM OF 8" STABLE GRANULAR MATERIAL FREE OF ROCK FORMATION AND OTHER FOREIGN FORMATIONS, AND CONSTRUCTED TO A UNIFORM GRADE AND LINE.

2. BACKFILL MATERIAL SHALL BE WELL GRADED GRANULAR MATERIAL, WELL TAMPED IN LAYERS NOT TO EXCEED 6 INCHES TO A HEIGHT OF 12 INCHES ABOVE PIPE AS SHOWN ON THE PLANS.

3. PROVIDE A MINIMUM PROTECTIVE COVER OF 18 INCHES OVER STORM SEWER AND AVOID UNNECESSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

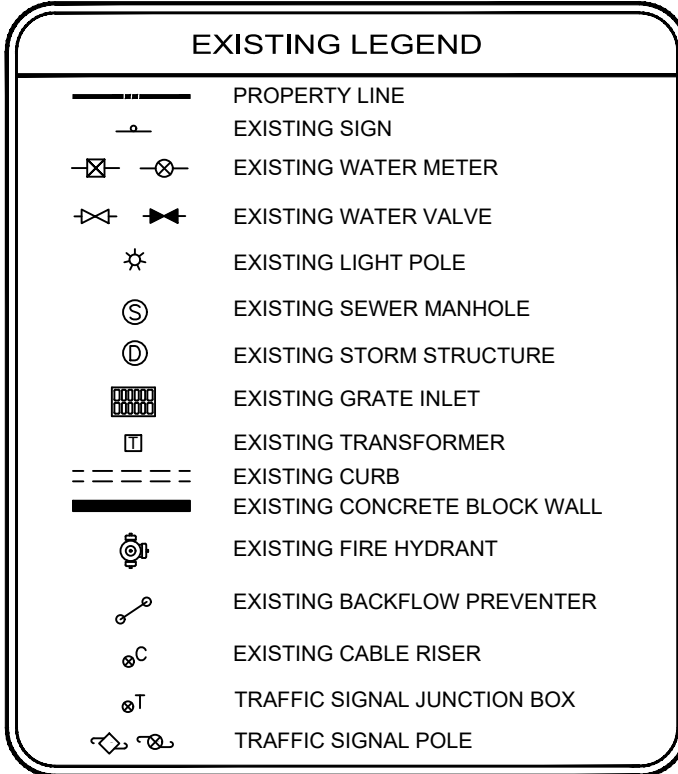
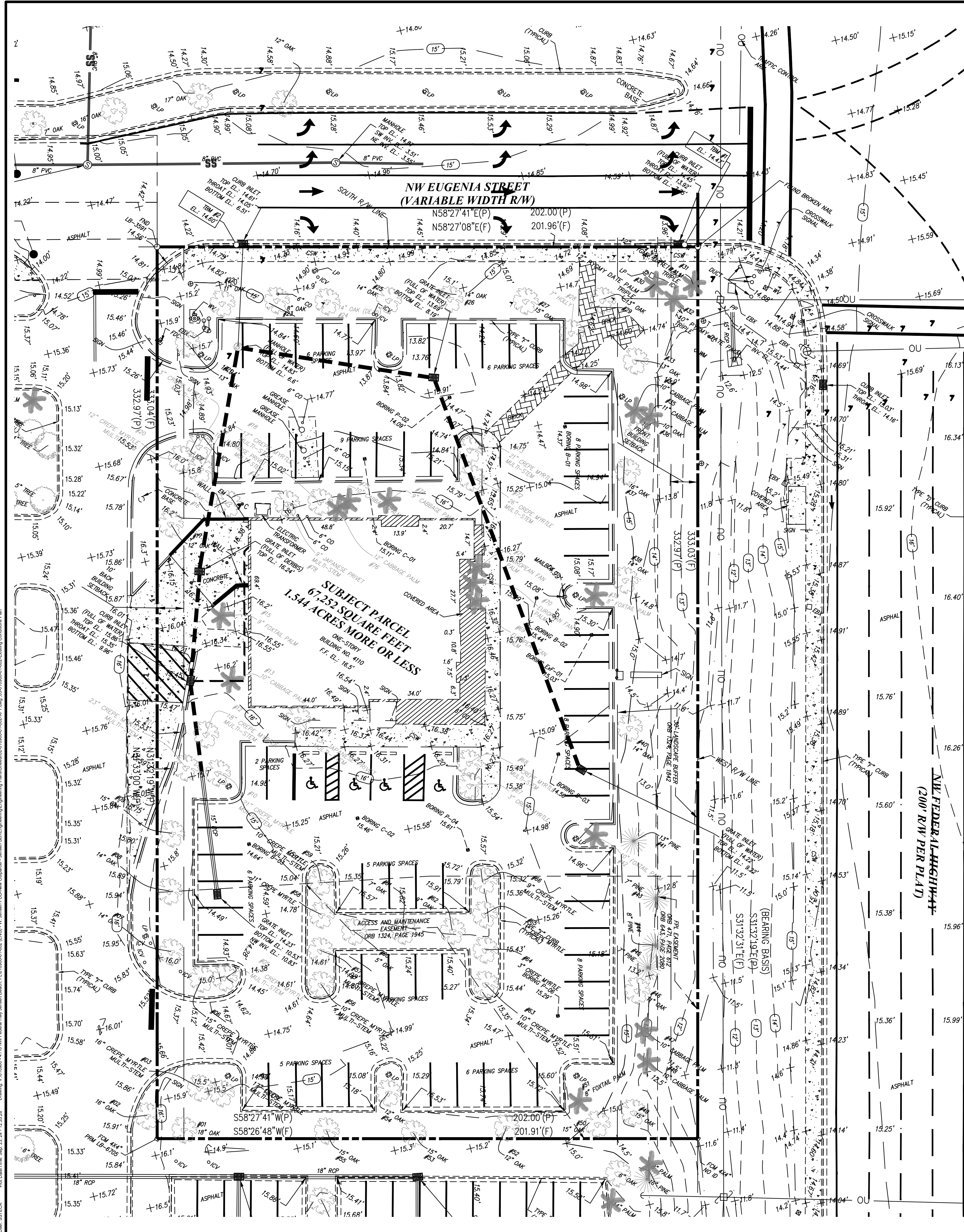
4. THE CONTRACTOR SHALL NOTIFY MARTIN COUNTY ENGINEERING DEPARTMENT/ FOOT AND THE ENGINEER OF RECORD AT LEAST 7 DAYS PRIOR TO THE START OF THE CONSTRUCTION AND INSPECTION.

PAVING:

A. GENERAL:

1. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIME ROCK BASE.

2. ALL EXISTING PAVEMENT,



FLOOD ZONE NOTE

1. FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; MAP COMMUNITY #120161, PANEL # 0020, SUFFIX G; MAP DATE: 03/16/2015.

DATUM NOTE

THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (N.A.V.D. 88)

1. STATION 1 IS A MARTIN COUNTY MAG NAIL AND BLUE ALUMINUM WASHER (US-D), LOCATED ABOUT 0.78 NORTHWESTERLY OF JENSEN BEACH BOULEVARD AT THE NORTHWEST CORNER OF INTERSECTION U.S. HIGHWAY NO.0 AND EUGENIA STREET. 17.3' SOUTHWESTERLY OF THE WESTERLY EDGE OF PAVEMENT OF EUGENIA STREET. SET IN THE EASTERLY SIDE OF A CONCRETE BASE FOR A TRAFFIC SIGNAL POLE AT THE WELLS FARGO BANK. EL. 14.54' (NAV08)
2. TBM #1 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 5.0' SOUTHWEST OF THE NORTHEAST CORNER OF SUBJECT PARCEL. EL. 14.47' (NAV08)
3. TBM #2 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 29.6' NORTHWEST OF THE SOUTHWEST CORNER OF SUBJECT PARCEL. EL. 14.60' (NAV08)

SOIL CLASSIFICATION

THE SOIL SURVEY OF MARTIN COUNTY, FLORIDA AS PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA), SOIL CONSERVATION SERVICE (SCS; LATER RENAMED THE NATURAL RESOURCE CONSERVATION SERVICE NRCS) IDENTIFIES THE SOIL TYPE AT THE SUBJECT SITE AS 97.1% (4) WAVELAND AND IMMOKALEE FINE SANDS, AND 2.9% (9) POMELLO SAND, 0 TO 5 PERCENT SLOPES.

EXISTING CONDITIONS PLAN

WEST JENSEN PUD, PHASE 1B

PARCEL 12.7

4110 NW FEDERAL HWY.

010900-01-002
AN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421

PLAN STATUS

PLAN STATUS

01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION

BD DESIGN	BD DRAWN	WEP CHKD
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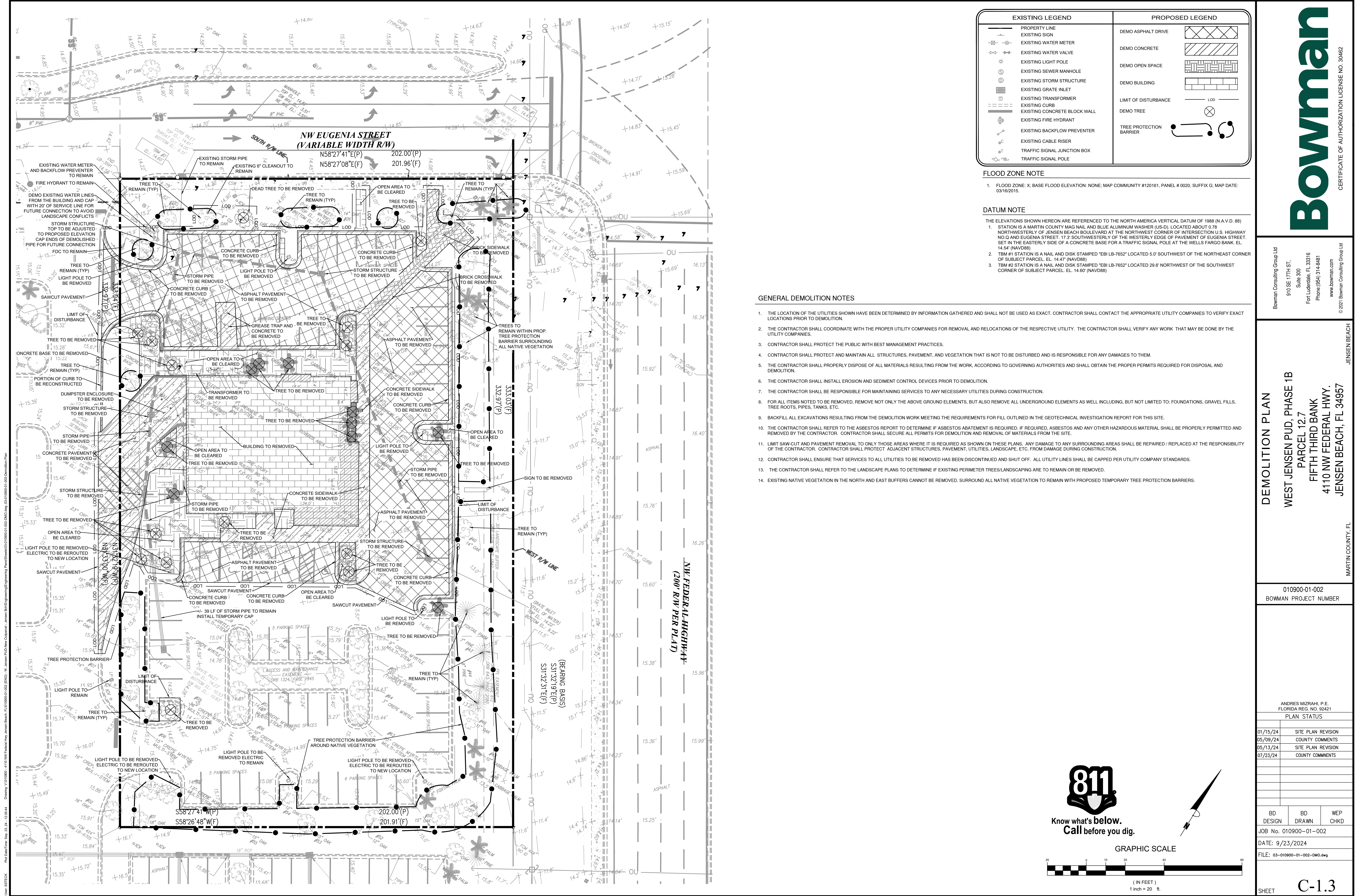
JOB No. 010900-01-002

DATE: 9/23/2024

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SHEET

C-1.2



DEMOLITION PLAN

WEST JENSEN PUD, PHASE 1B
PARCEL 12.7
FIFTH THIRD BANK
4110 NW FEDERAL HWY.
JENSEN BEACH, FL 34957

010900-01-002
BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421
PLAN STATUS

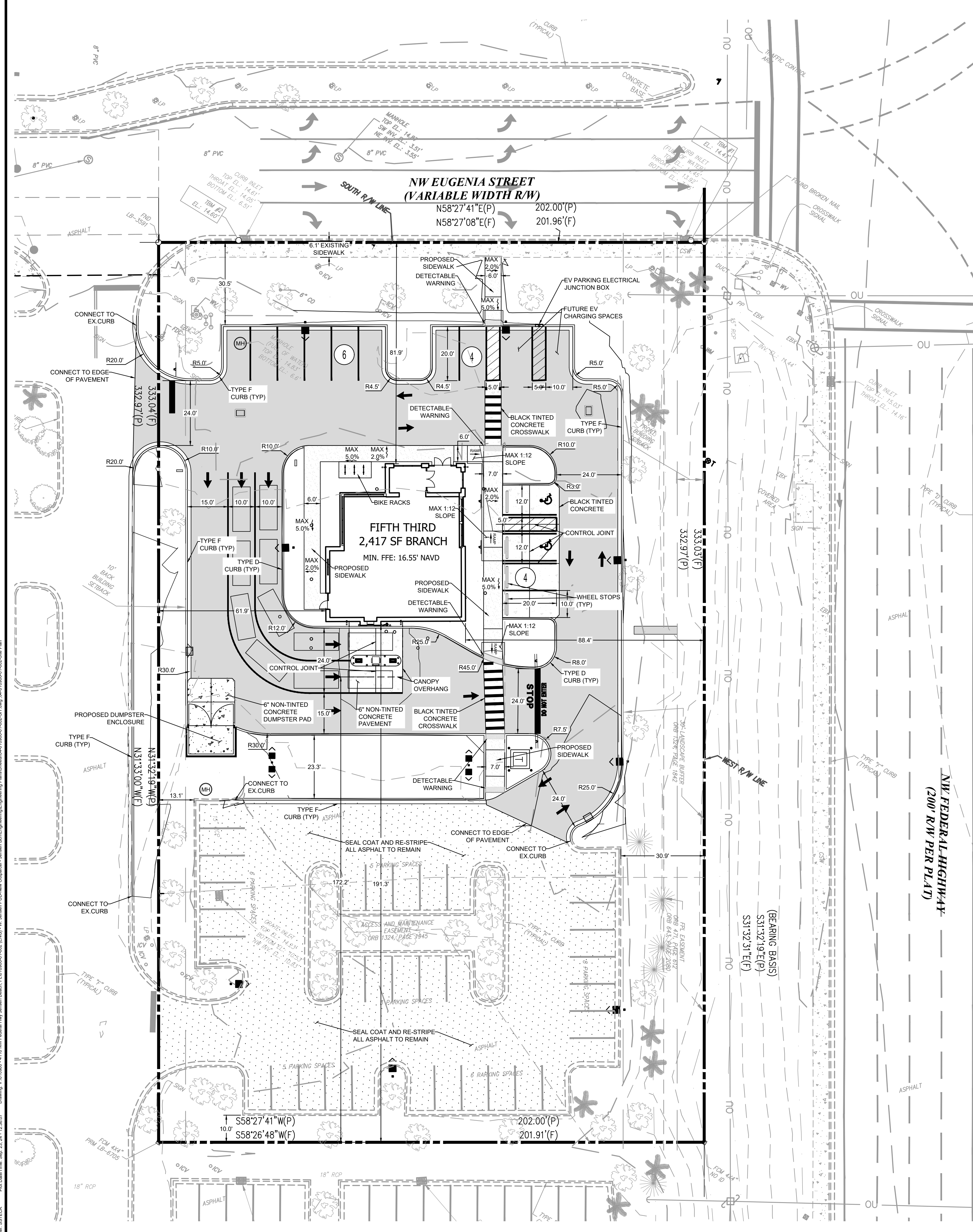
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05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION
07/23/24	COUNTY COMMENTS

BD	BD	WEP
DESIGN	DRAWN	CHKD

JOB No. 010900-01-002

DATE: 9/23/2024

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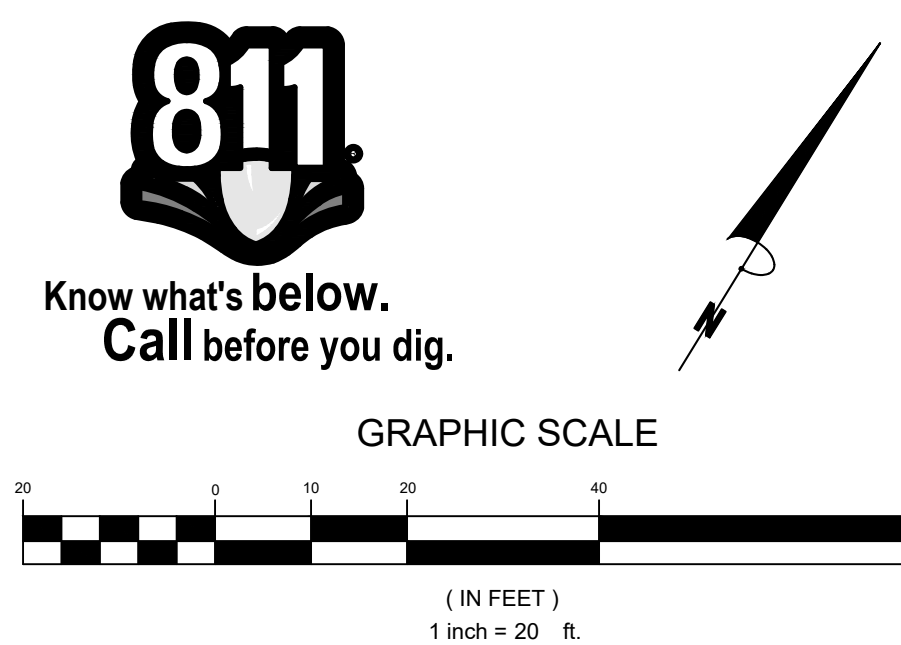
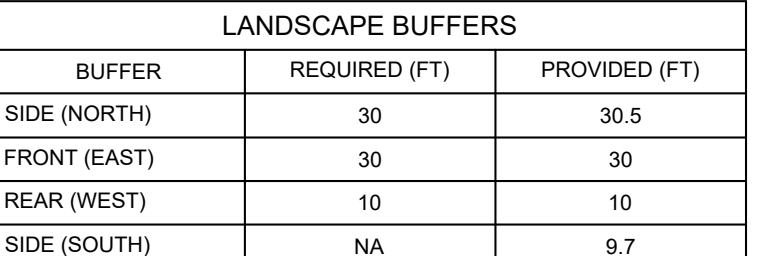
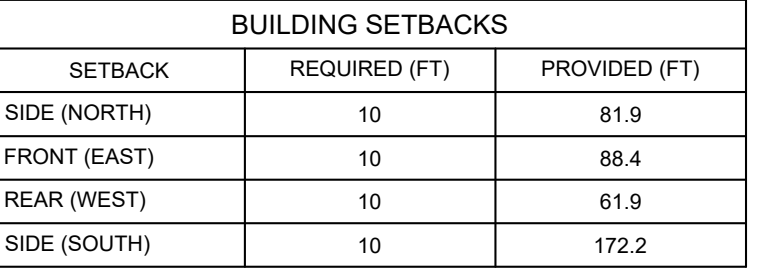
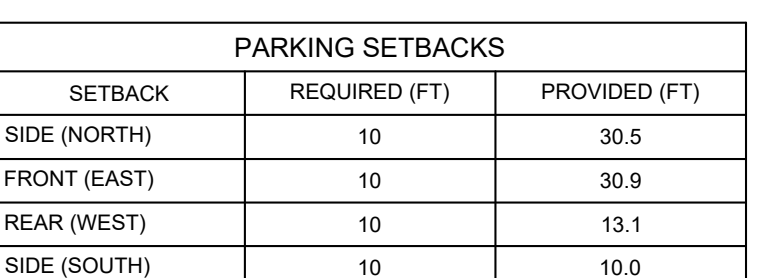
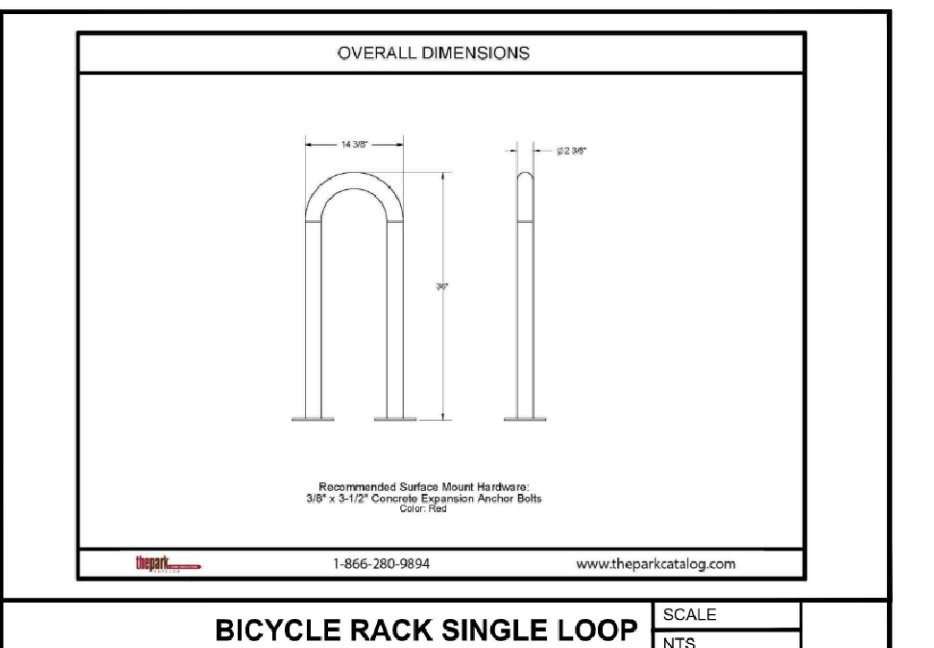
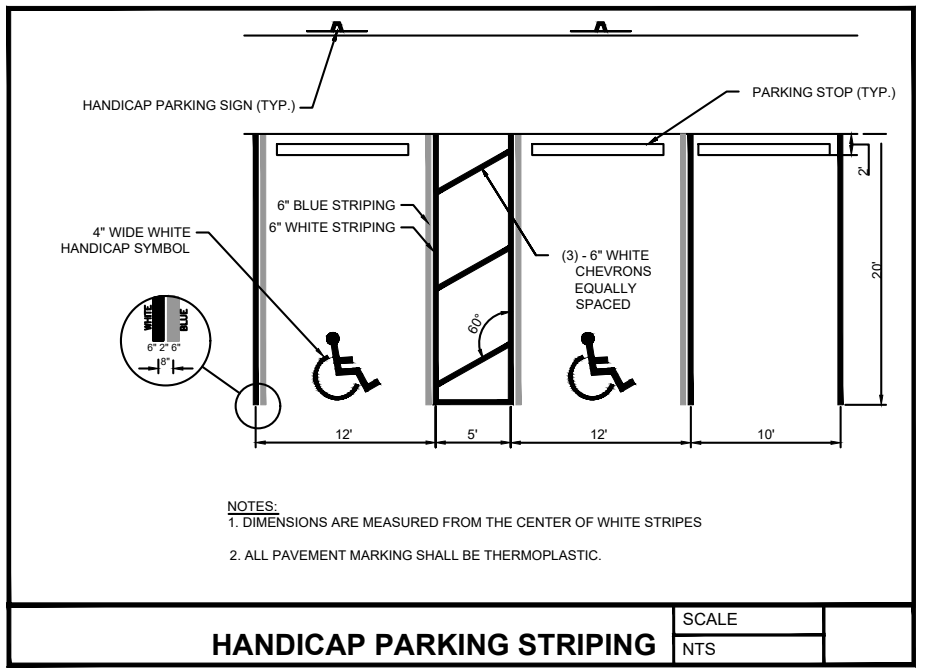
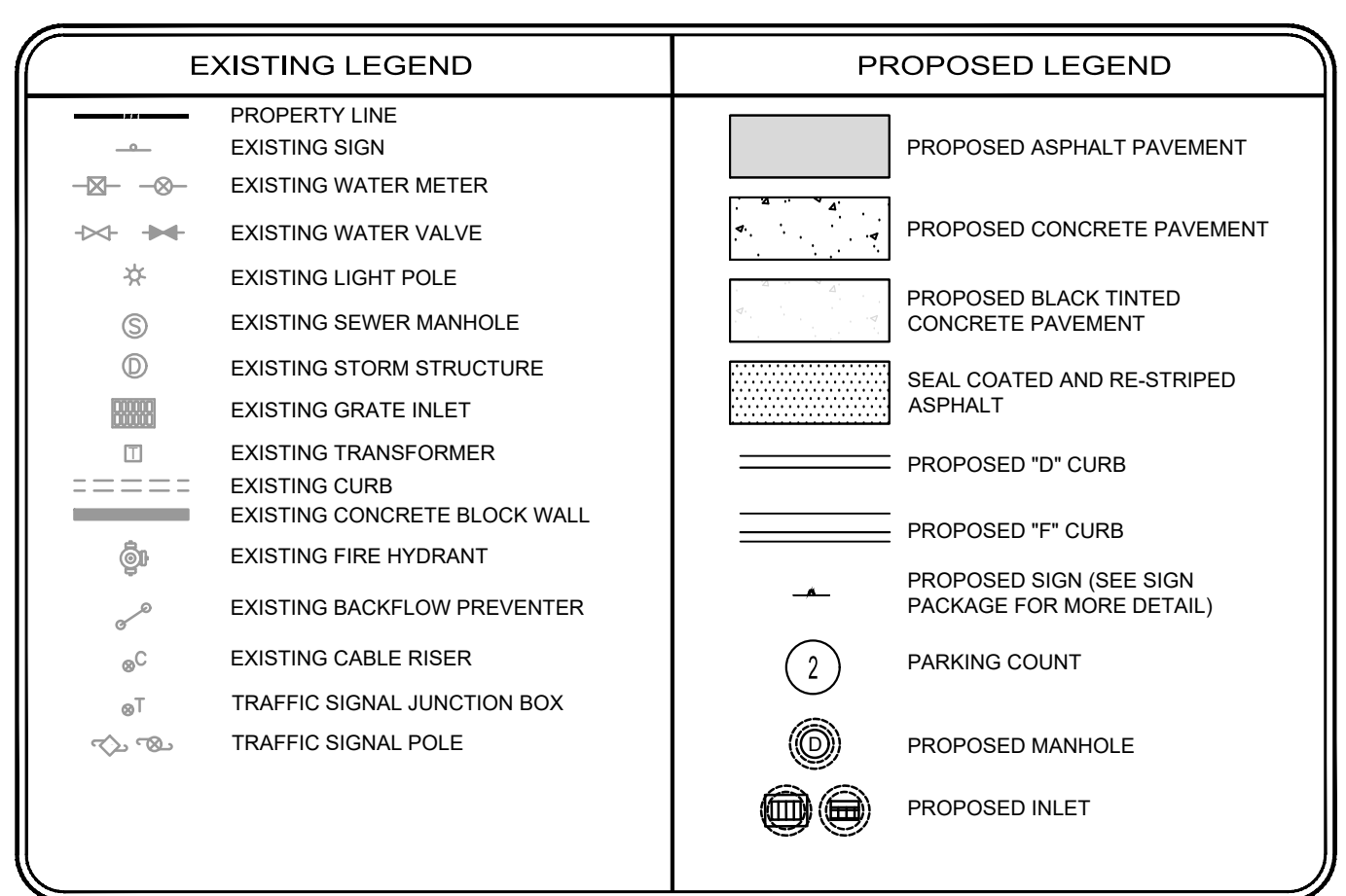
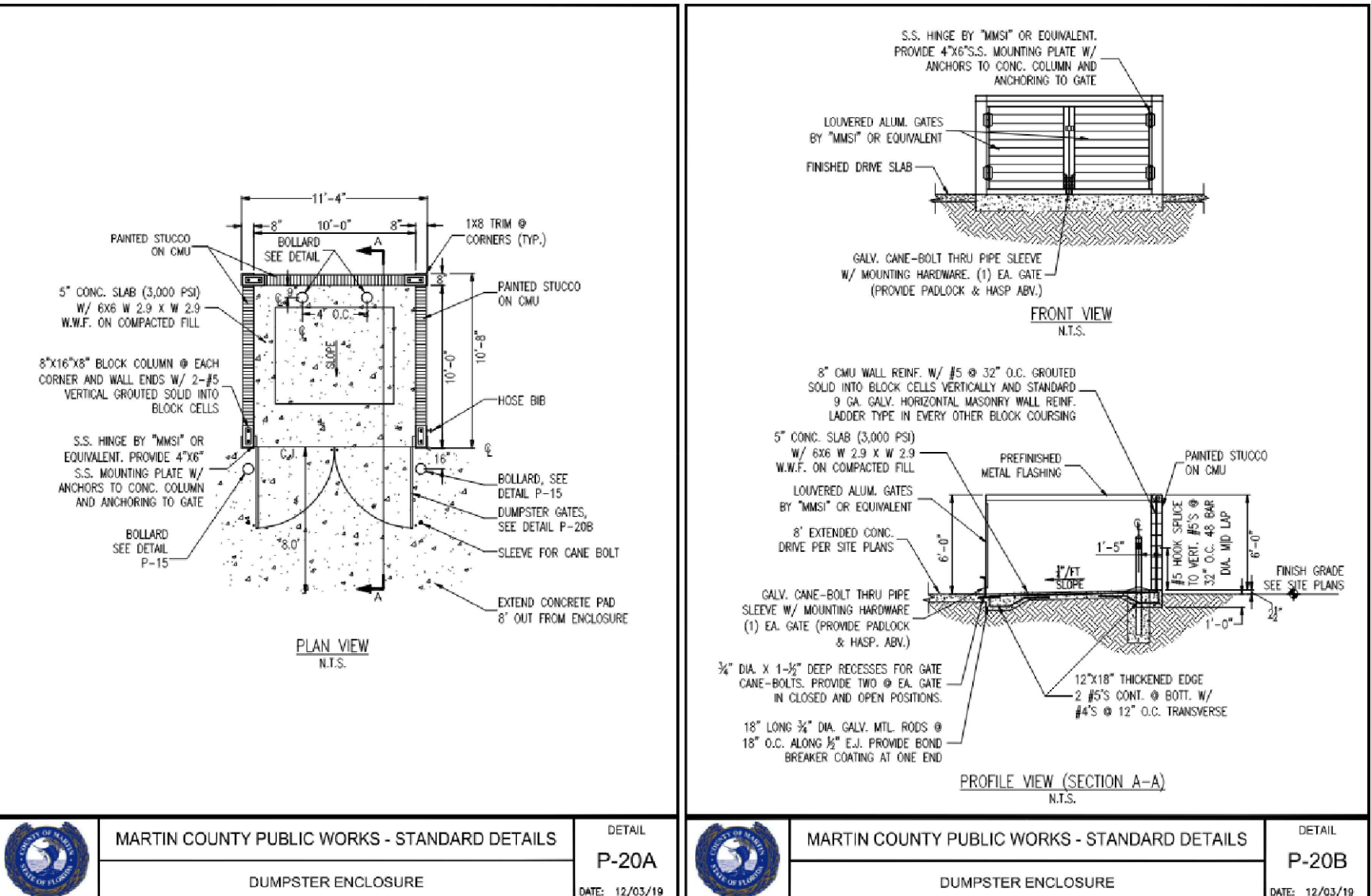
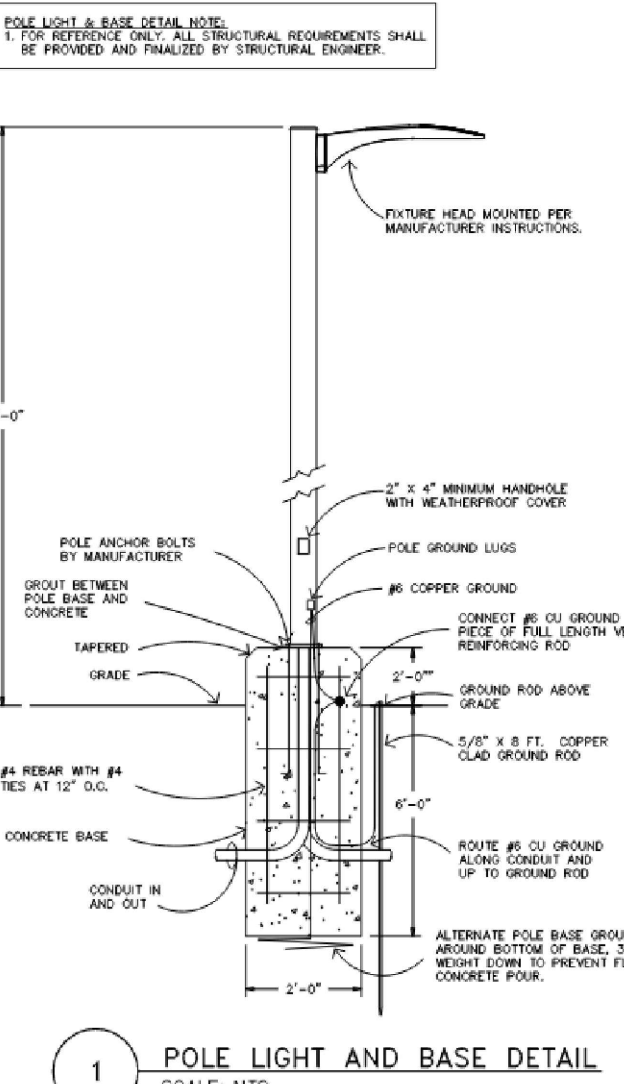


SITE SUMMARY	
JURISDICTION	MARTIN COUNTY
ZONING	PUD-WJ
FLU	GENERAL COMMERCIAL
USE	BANK/ FINANCIAL INSTITUTION
TYPE OF CONSTRUCTION	NEW
PARCEL ID	183741006000000100
LOT	
SIZE	67,252 SF (1.54 AC)
BUILDING	
SIZE	2,417 SF
HEIGHT	22' - 11.5/8" ± 1 STORY
MAX HEIGHT	40'
CONSTRUCTION TYPE	TYPE VB
PARKING	
STALL SIZE	10' X 20.0'

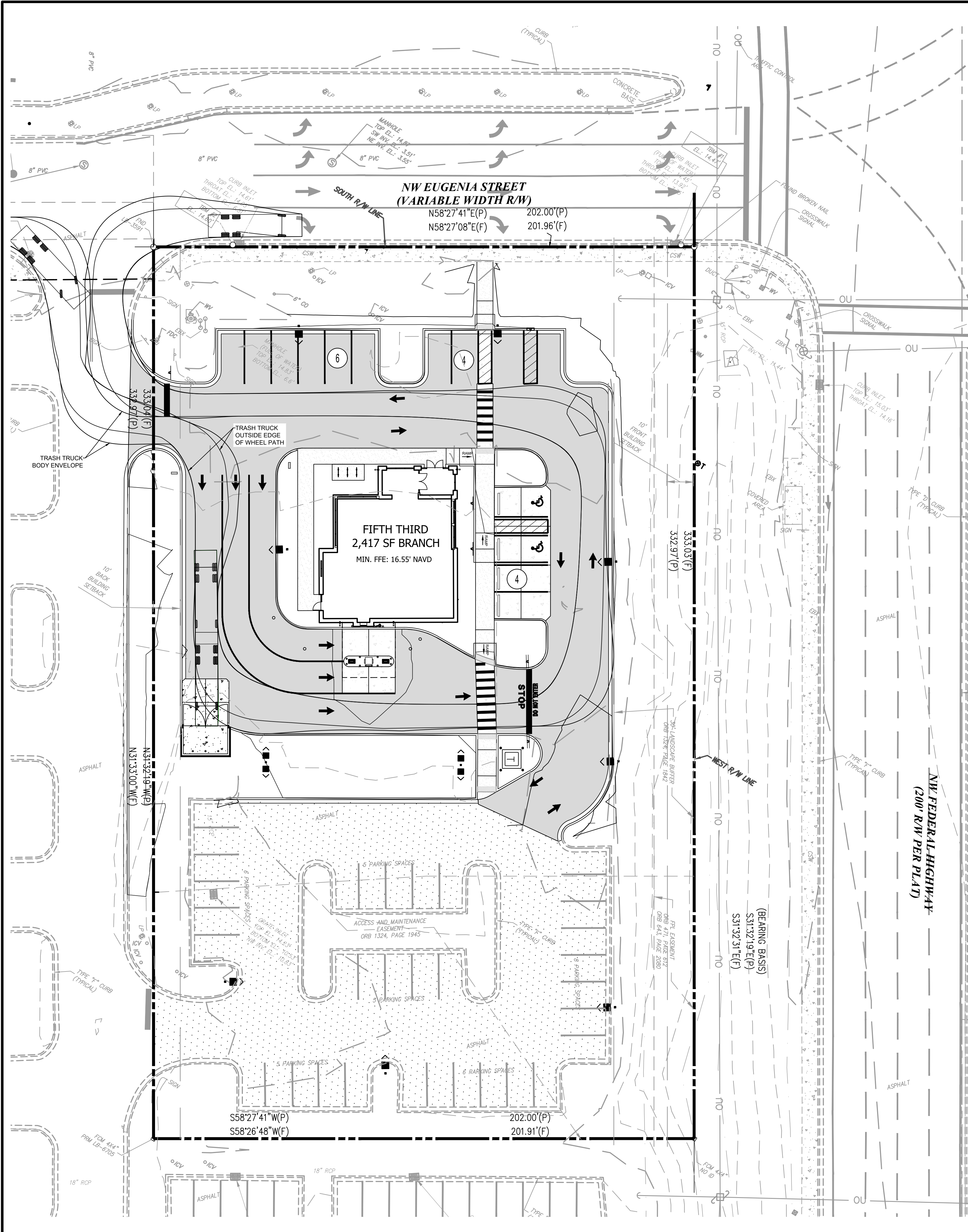
PARKING CALCULATIONS			
USE	QTY	RATIO	REQUIRED
BANK AND FINANCIAL USE	2.417	1 SPACE PER 200 SF	12 SPACES
TOTAL PARKING REQUIRED			12
STANDARD PARKING PROVIDED			47
HANDICAP PARKING REQUIRED			2
HANDICAP PARKING PROVIDED			2
FUTURE EV PARKING			2
TOTAL PARKING PROVIDED			49
EXISTING PARKING TO REMAIN			35
NEWLY CONSTRUCTED PARKING			14

AREA CALCULATIONS			
AREA	SF	ACRES	%
TOTAL AFFECTED AREA	67,252	1.54	100
PROP. Pervious Area	26,831	0.62	39.9
PROP. Landscape Area	16,641	0.38	24.7
PROP. Dry Retention Area	0	0.00	0.0
PROP. Buffer Area	10,190	0.23	15.2
PROP. Impervious Area	40,421	0.93	60.1
PROP. Building Area	2,417	0.06	3.6
PROP. Pavement Area	38,004	0.87	56.5
EXIST. Pervious Area	24,466	0.56	36.4
EXIST. Impervious Area	42,786	0.98	63.6
EXIST. Building Area	5,370	0.12	8.0
EXIST. Pavement Area	37,416	0.86	55.6

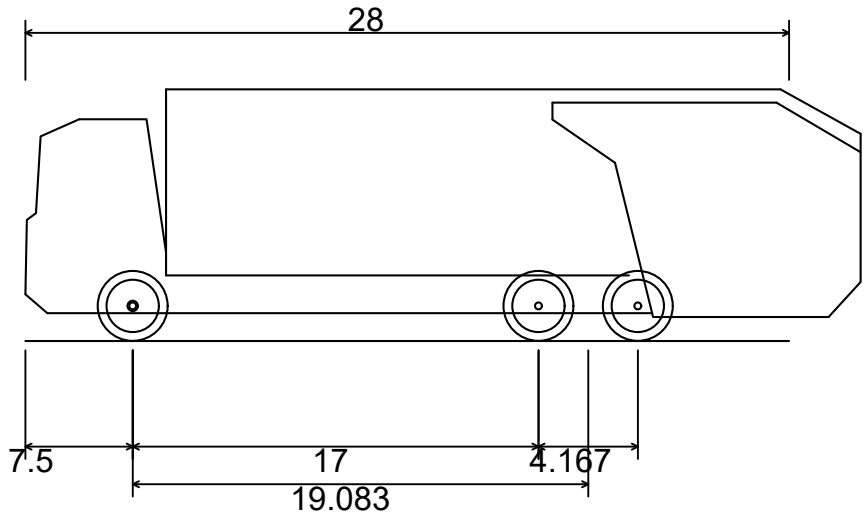
AREA CALCULATIONS				
AREA	REQUIRED	SF.	ACRES	%
BUILDING COVERAGE	MAX. 60%	2,417	0.06	3.6
OPEN SPACE	MIN. 20%	26,831	0.62	39.9



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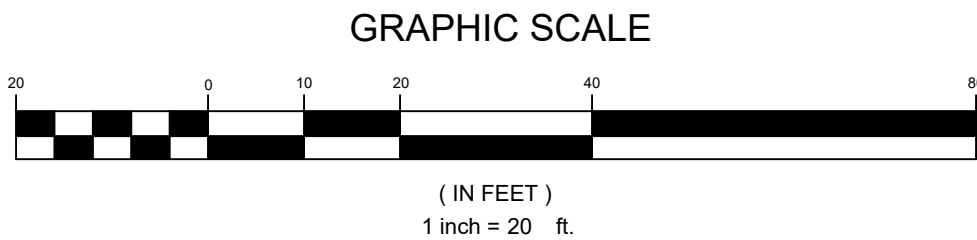


EXISTING LEGEND		PROPOSED LEGEND	
	PROPERTY LINE		PROPOSED ASPHALT PAVEMENT
	EXISTING SIGN		PROPOSED CONCRETE PAVEMENT
	EXISTING WATER METER		PROPOSED BLACK TINTED CONCRETE PAVEMENT
	EXISTING WATER VALVE		SEAL COATED AND RE-STRIPED ASPHALT
	EXISTING LIGHT POLE		PROPOSED "D" CURB
	EXISTING SEWER MANHOLE		PROPOSED "F" CURB
	EXISTING STORM STRUCTURE		PROPOSED SIGN (SEE SIGN PACKAGE FOR MORE DETAIL)
	EXISTING GRATE INLET		PARKING COUNT
	EXISTING TRANSFORMER		PROPOSED MANHOLE
	EXISTING CURB		PROPOSED INLET
	EXISTING CONCRETE BLOCK WALL		
	EXISTING FIRE HYDRANT		
	EXISTING BACKFLOW PREVENTER		
	EXISTING CABLE RISER		
	TRAFFIC SIGNAL JUNCTION BOX		
	TRAFFIC SIGNAL POLE		



Front-Load Garbage Truck
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Track Width
Lock-to-lock time
Wall to Wall Turning Radius

28.000ft
8.375ft
10.546ft
1.000ft
8.375ft
6.00s
37.000ft



Bowman

CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

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TRASH TRUCK EXHIBIT
WEST JENSEN PUD, PHASE 1B
PARCEL 12.7
FIFTH THIRD BANK
4110 NW FEDERAL HWY.
JENSEN BEACH, FL 34957

010900-01-002
BOWMAN PROJECT NUMBER

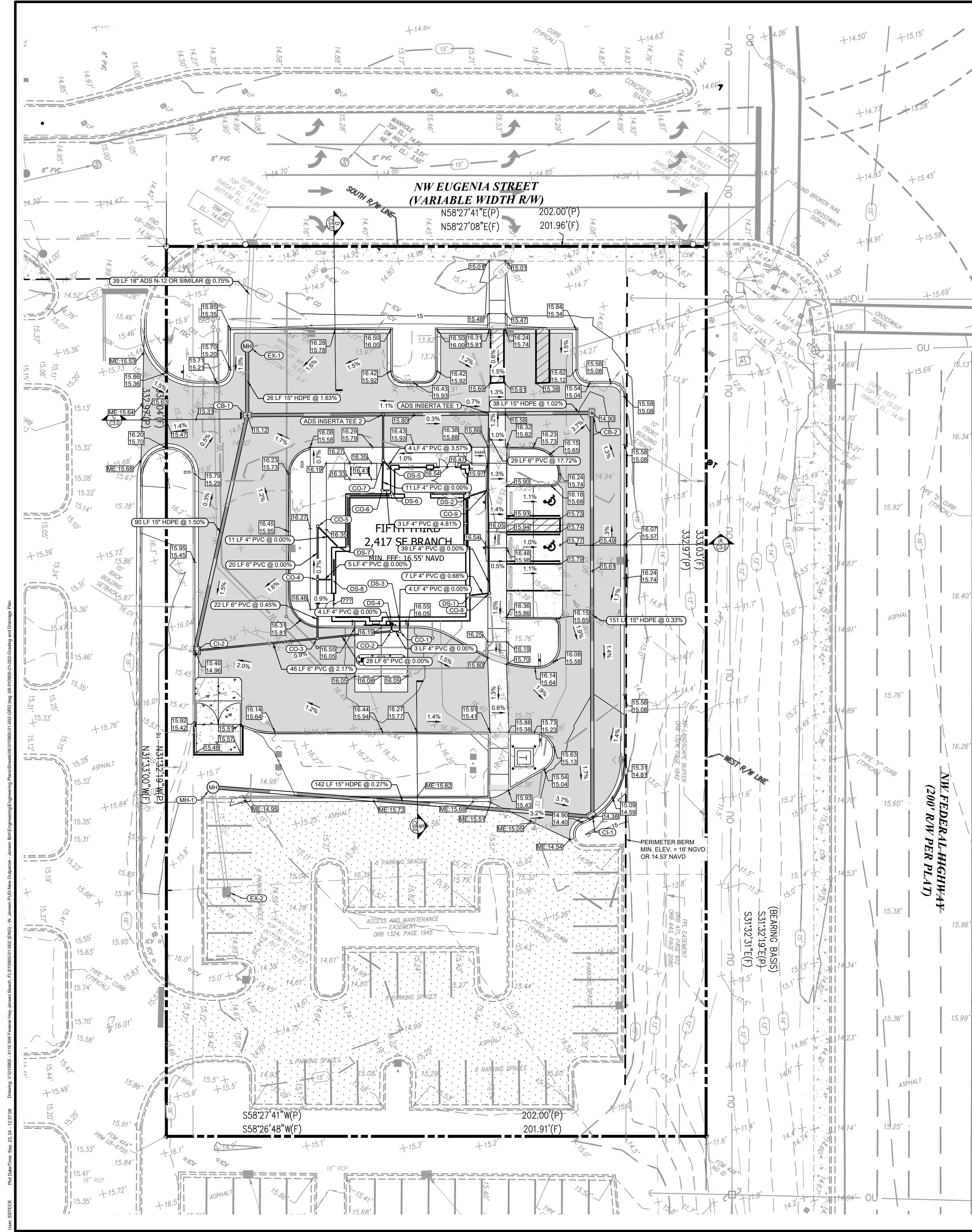
ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421
PLAN STATUS

01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION

BD	BD	WEP
DESIGN	DRAWN	CHKD

JOB No. 010900-01-002
DATE: 9/23/2024
FILE: 05-010900-01-002-TCP.dwg

SHEET C-2.2



STORMWATER STRUCTURE TABLE				
STRUCTURE ID	STRUCTURE TYPE	RIM ELEV.	PIPE INVERTS	PIPE INFORMATION
ADS INSERTA TEE 1	ADS 6" INSERTA TEE ONEFIT REFER TO STD-1111 AND STD-1102 FOR INSTALLATION		IN (NE) = 8.92 OUT (SW) = 8.92 IN (SE) = 8.92	38 LF, 15" HDPE @ 1.02% 40 LF, 15" HDPE @ 1.02% 39 LF, 6" PVC @ 17.72%
ADS INSERTA TEE 2	ADS 6" INSERTA TEE ONEFIT REFER TO STD-1111 AND STD-1102 FOR INSTALLATION		IN (NE) = 8.52 OUT (SW) = 8.52 IN (SE) = 8.52	40 LF, 15" HDPE @ 1.02% 31 LF, 15" HDPE @ 1.02% 18 LF, 6" PVC @ 31.16%
CB-1	TYPE C CATCH BASIN 5' TYPE J BOTTOM	RIM = 15.12	IN (NE) = 8.00 OUT (NW) = 7.80 IN (S) = 8.65	51 LF, 15" HDPE @ 1.02% 26 LF, 15" HDPE @ 1.63% 30 LF, 15" HDPE @ 1.50%
CB-2	TYPE C CATCH BASIN	RIM = 14.90	IN (SE) = 9.50 OUT (SW) = 9.31	151 LF, 15" HDPE @ 0.33% 38 LF, 15" HDPE @ 1.02%
CI-1	TYPE 9 CURB INLET	RIM = 14.38	OUT (NW) = 10.00 IN (SW) = 10.00	151 LF, 15" HDPE @ 0.33% 142 LF, 15" HDPE @ 0.27%
CI-2	TYPE 9 CURB INLET	RIM = 14.96	OUT (N) = 10.00 IN (NE) = 12.95	90 LF, 15" HDPE @ 1.50% 46 LF, 6" PVC @ 2.17%
CO-1	6" CLEANOUT	RIM = 15.09	IN (NW) = 14.05 OUT (SW) = 14.05	4 LF, 4" PVC @ 0.00% 28 LF, 6" PVC @ 0.00%
CO-2	6" CLEANOUT	RIM = 16.13	IN (SW) = 14.05 IN (NW) = 14.05	4 LF, 4" PVC @ 0.00% 31 LF, 4" PVC @ 0.00%
CO-3	6" CLEANOUT	RIM = 15.87	IN (NE) = 14.05 OUT (SW) = 13.95 IN (NW) = 13.95	28 LF, 6" PVC @ 0.00% 46 LF, 6" PVC @ 2.17% 22 LF, 6" PVC @ 0.45%
CO-4	6" CLEANOUT	RIM = 16.44	OUT (SE) = 14.05 IN (NE) = 14.05 IN (NW) = 14.05	22 LF, 6" PVC @ 0.45% 5 LF, 4" PVC @ 0.00% 20 LF, 6" PVC @ 0.00%
CO-5	6" CLEANOUT	RIM = 16.31	OUT (SE) = 14.05 IN (NE) = 14.05 IN (NW) = 14.05	20 LF, 6" PVC @ 0.00% 11 LF, 4" PVC @ 0.00%
CO-6	6" CLEANOUT	RIM = 16.52	IN (NE) = 13.90 IN (NW) = 13.90	3 LF, 4" PVC @ 4.81% 11 LF, 4" PVC @ 0.00%
CO-7	6" CLEANOUT	RIM = 16.39	OUT (SE) = 13.90 IN (E) = 13.90 OUT (NW) = 13.90	11 LF, 4" PVC @ 0.00% 4 LF, 4" PVC @ 3.57% 18 LF, 6" PVC @ 31.16%
CO-8	6" CLEANOUT	RIM = 16.44	IN (SW) = 14.00 OUT (NW) = 14.00	7 LF, 4" PVC @ 0.68% 39 LF, 4" PVC @ 0.00%
CO-9	6" CLEANOUT	RIM = 16.00	IN (SE) = 14.00 IN (SW) = 14.00 OUT (NW) = 14.00	39 LF, 4" PVC @ 0.00% 7 LF, 4" PVC @ 0.68% 39 LF, 4" PVC @ 0.00%
DS-1	BUILDING DOWNSPOUT CONNECTION		OUT (NE) = 14.05	7 LF, 4" PVC @ 0.68%
DS-2	BUILDING DOWNSPOUT CONNECTION		OUT (NE) = 14.05	7 LF, 4" PVC @ 0.67%
DS-3	BUILDING DOWNSPOUT CONNECTION		OUT (SE) = 14.05	4 LF, 4" PVC @ 0.00%
DS-4	BUILDING DOWNSPOUT CONNECTION		OUT (SE) = 14.05	4 LF, 4" PVC @ 0.00%
DS-5	BUILDING DOWNSPOUT CONNECTION		OUT (W) = 14.05	4 LF, 4" PVC @ 3.57%
DS-6	BUILDING DOWNSPOUT CONNECTION		OUT (SW) = 14.05	3 LF, 4" PVC @ 4.81%
DS-7	BUILDING DOWNSPOUT CONNECTION		OUT (W) = 14.05	11 LF, 4" PVC @ 0.00%
DS-8	BUILDING DOWNSPOUT CONNECTION		OUT (SW) = 14.05	5 LF, 4" PVC @ 0.00%
EX-1	EXISTING MANHOLE RIM ELEV. TO BE MODIFIED TO MATCH PROPOSED GRADE (E INV. PIPE TO BE FILLED OR CAPPED)	RIM = 15.36	IN (SE) = 7.38 OUT (NW) = 7.13	26 LF, 15" HDPE @ 1.63% 39 LF, 18" ADS N-12 OR SIMILAR @ 1.14%
EX-2	EXISTING CATCH BASIN	RIM = 14.24	OUT (NW) = 10.83	39 LF, 15" ADS N-12 OR SIMILAR @ 1.14%
MH-1	PROP. 4" MANHOLE TO CONNECT TO EXISTING 16" RCP (SE)	RIM = 15.48	OUT (NE) = 10.38 IN (SE) = 10.38	142 LF, 15" HDPE @ 0.27% 39 LF, 15" ADS N-12 OR SIMILAR @ 1.14%

EXISTING LEGEND

- PROPERTY LINE
- EXISTING SIGN
- EXISTING WATER METER
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING STORM STRUCTURE
- EXISTING GRATE INLET
- EXISTING TRANSFORMER
- EXISTING CURB
- EXISTING CONCRETE BLOCK WALL
- EXISTING FIRE HYDRANT
- EXISTING BACKFLOW PREVENTER
- EXISTING CABLE RISER
- TRAFFIC SIGNAL JUNCTION BOX
- TRAFFIC SIGNAL POLE

PROPOSED LEGEND

- PROPOSED ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED BLACK TINTED CONCRETE PAVEMENT
- SEAL COATED AND RE-STRIPED ASPHALT
- PROPOSED "D" CURB
- PROPOSED "F" CURB
- PROPOSED SIGN (SEE SIGN PACKAGE FOR MORE DETAIL)
- PARKING COUNT
- PROPOSED MANHOLE
- PROPOSED INLET
- PROPOSED ELECTRIC LINE
- PROPOSED WATER LINE
- PROPOSED STORM PIPE

DATUM NOTE

THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (N.A.V.D. 88)

1. STATION IS A MARTIN COUNTY MAG NAIL AND BLUE ALUMINUM WASHER (U.S.D.) LOCATED ABOUT 0.78 NORTHWESTERLY OF JENSEN BEACH BOULEVARD AT THE NORTHWEST CORNER OF INTERSECTION U.S. HIGHWAY NO. 9 AND EUGENIA STREET, 17.3' SOUTHWESTERLY OF THE WESTERLY EDGE OF PAVEMENT OF EUGENIA STREET. SET IN THE EASTERLY SIDE OF A CONCRETE BASE FOR A TRAFFIC SIGNAL POLE AT THE WELLS FARGO BANK, EL. 14.54 (NAVD88)

2. TBM #1 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 5.9' SOUTHWEST OF THE NORTHEAST CORNER OF SUBJECT PARCEL, EL. 14.47 (NAVD88)

3. TBM #2 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 29.8' NORTHWEST OF THE SOUTHWEST CORNER OF SUBJECT PARCEL, EL. 14.60 (NAVD88)

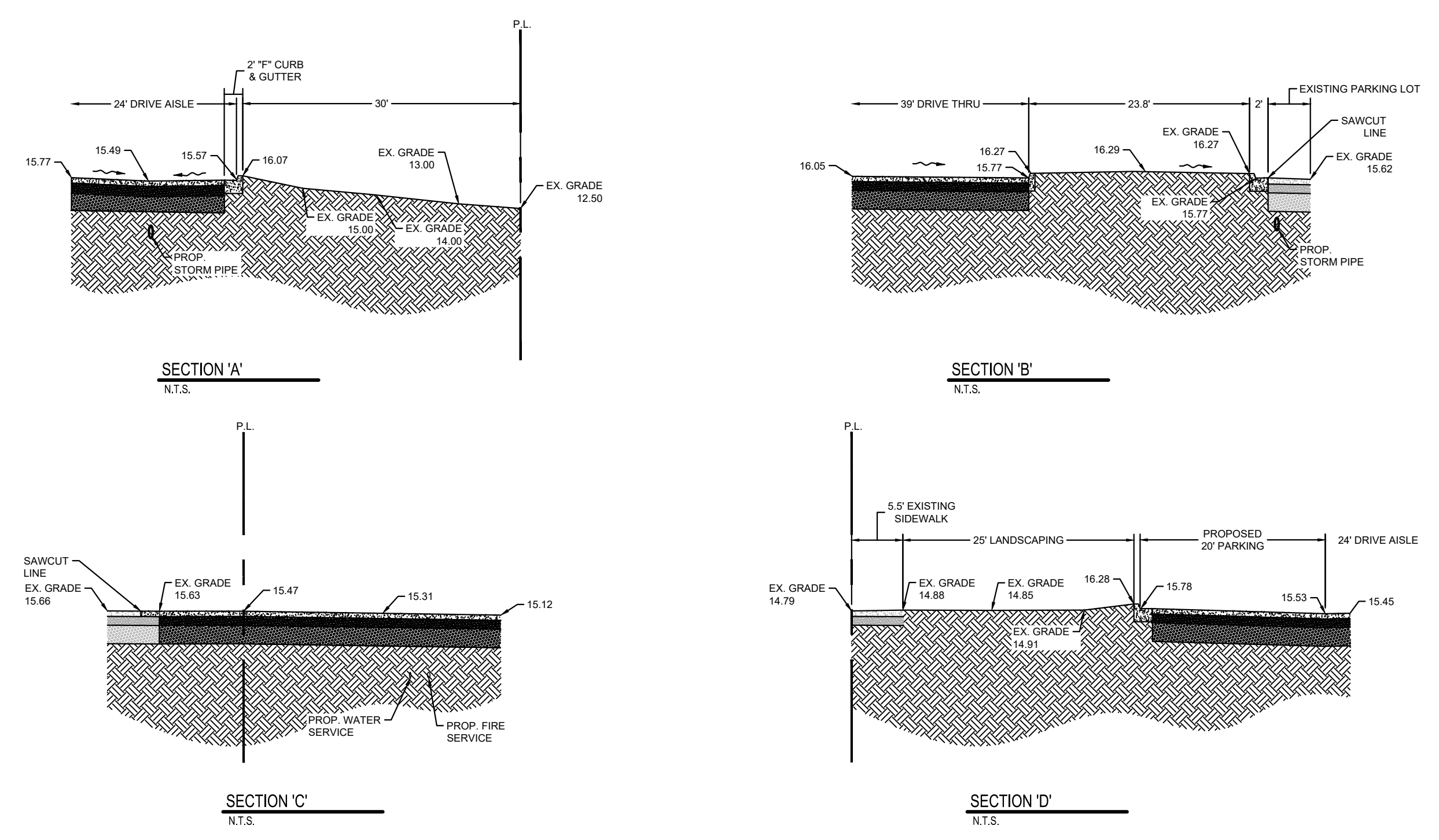
GENERAL DRAINAGE NOTE

1. THE PROPOSED STORMWATER MANAGEMENT SYSTEM IS A MODIFICATION OF THE EXISTING SPWMD PERMIT, PERMIT NO. 43-50018-S

2. THE PERIMETER BERM FOR THE PERMITTED MASTER SYSTEM FOR SUB BASIN 2J IS 16.0 FT NGVD

3. NGS CONVERSIONS UTILIZED IS AS FOLLOWS
NGVD - 1.47' = NAVD

4. MIN. CURB ELEV. ALONG EASTERN BOUNDARY (ABUTTING FDOT ROW FOR US HIGHWAY 1) = 14.53' NAVD



Know what's below.
Call before you dig.

GRAPHIC SCALE

GRADING AND DRAINAGE PLAN
WEST JENSEN PUD, PHASE 1B
PARCEL 12.7
FIFTH THIRD BANK
4110 NW FEDERAL HWY.
JENSEN BEACH, FL 34957

010900-01-002
BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421

PLAN STATUS

01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION

BD	BD	WEP
DESIGN	DRAWN	CHKD

JOB No. 010900-01-002

DATE: 9/23/2024

FILE: 06-010900-01-002-CRD.dwg

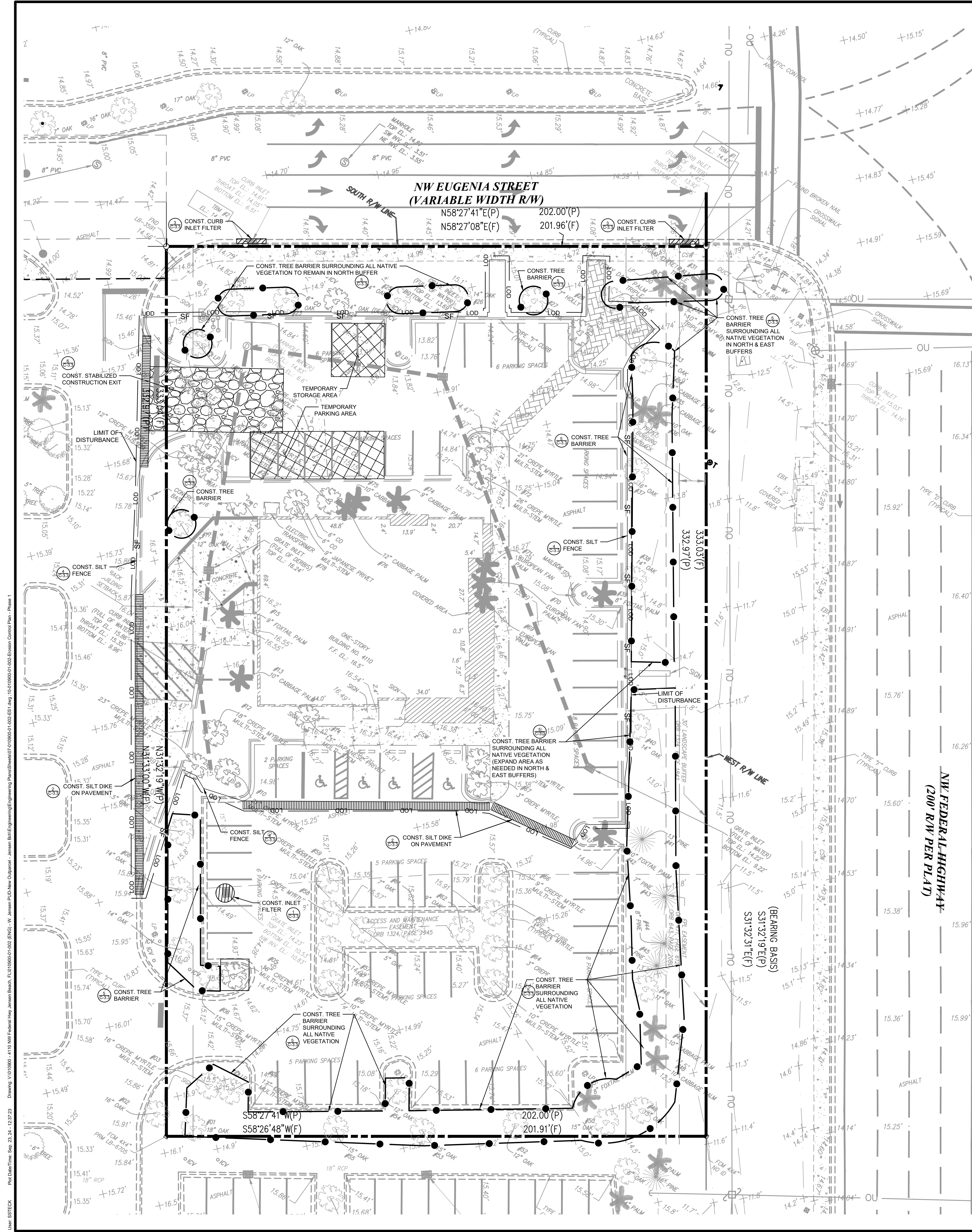
SHEET

C-3.0

CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

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910 SE 17TH ST.
Suite 300
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Phone (954) 314-8481
www.bowman.com

JENSEN BEACH
MARTIN COUNTY, FL



CONSTRUCTION SEQUENCE

1. CONDUCT PRE-CONSTRUCTION MEETING WITH THE COUNTY TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING.
2. INSTALL AND POST SWPPP AND SITE COMPLIANCE SIGNAGE PUBLICLY VISIBLE.
3. INSTALL INLET PROTECTION, SILT DIKES, AND SILT FENCE ON THE SITE AS SHOWN.
4. INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL DEVICES.
5. PREPARE TEMPORARY PARKING AND STORAGE AREAS.
6. DEMO EXISTING STRUCTURES, PAVEMENT, AND SPECIFIED UTILITIES.
7. BEGIN GRADING THE SITE.
8. BEGIN CONSTRUCTION OF UTILITIES.
9. BEGIN SUBGRADE PREPARATION AND CONSTRUCTION OF STRUCTURES.
10. BEGIN INSTALLATION OF CURBS, GUTTER, AND PAVING.
11. COMPLETE PERMANENT STABILIZATION ON AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED.
12. COMPLETE FINAL GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
13. OBTAIN CONCURRENCE FROM THE COUNTY THAT THE SITE HAS BEEN FULLY STABILIZED.
14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
15. STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL.

CONTRACTOR MAY COMPLETE CONSTRUCTION RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPs HAVE BEEN COMPLETELY INSTALLED.

THE ACTUAL SCHEDULE FOR IMPLEMENTING POLLUTANT CONTROL MEASURES WILL BE DETERMINED BY THE PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE GENERAL CONTRACTOR ON THESE PLANS.

BMP MAINTENANCE NOTES

ALL MEASURES STATED ON THESE PLANS SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR COMPLETED PHASE OF WORK OF FINAL STABILIZATION OF THE SITE. SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONSTRUCTION FDEP GENERIC PERMIT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF DETERIORATION.
2. ALL SEEDED/WOODED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED AND REPAIRED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.
4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT FROM THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSINGS OF THE EXIT AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN A GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE AREA AS CONDITIONS DEMAND.
6. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT LEAVING THE SITE SHALL BE CLEANED IMMEDIATELY.
7. ALL INLETS AND STORM DRAINS SHALL BE KEPT CLEAN OF DEBRIS AND SEDIMENT. ANY DEBRIS AND/OR SEDIMENT THAT ENTERS ANY INLET OR STORM DRAIN SHALL BE CLEANED IMMEDIATELY. FLUSHING SHALL NOT BE USED TO CLEAN DEBRIS AND/OR SEDIMENT FROM STORM DRAINS.

GENERAL EROSION CONTROL NOTES

1. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
2. PERMIT(S) FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
3. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE FDEP GENERIC PERMIT.
4. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
5. ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
7. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY SEEDED.
11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS. THESE AREA SHALL BE SODDED/LANDSCAPED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
12. IF THE ACTION OF VEHICLES TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD, IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
13. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
14. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
15. ON SITE AND OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH FDEP GENERIC PERMIT REQUIREMENTS.
16. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
17. DUE TO CONSTRUCTION ACTIVITIES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
18. CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
19. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
20. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS MARTIN COUNTY IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
21. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. (ONCE CONTRACTOR IS SELECTED, A QUALIFIED FOREMAN/SUPERVISOR WILL BE DESIGNATED AND AVAILABLE AT THE PRE-CONSTRUCTION MEETING)
22. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE COUNTY'S INSPECTOR.

MARTIN COUNTY ENVIRONMENTAL NOTES:

1. PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE ENGINEERING DEPARTMENTS PRE-CONSTRUCTION MEETING FOR SITE DEVELOPMENT.
2. AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES AND PRESERVE BARRICADES WILL BE GRANTED AT THE PRE-CONSTRUCTION MEETING. THIS AUTHORIZATION SHALL BE POSTED ON THE SITE. IN THE PERMIT BOX, ITS LOCATION SHOWN ELSEWHERE ON THIS PAGE.
3. NO ADDITIONAL LAND CLEARING SHALL COMMENCE UNTIL A SATISFACTORY INSPECTION OF THE REQUIRED EROSION CONTROL BARRICADES HAS BEEN OBTAINED.
4. ALL CONSTRUCTION BARRICADES AND SILT FENCES WILL REMAIN IN PLACE AND BE MONITORED FOR COMPLIANCE BY THE PERMIT HOLDER DURING THE PERMITTED DEVELOPMENT ACTIVITIES.
5. PRIOR TO SCHEDULING A FINAL ENVIRONMENTAL INSPECTION FOR THE INFRASTRUCTURE, ALL BARRICADES AND EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
6. CONTRACTOR MUST USE SITE STABILIZATION METHODS, SUCH AS, BUT NOT LIMITED TO, SEEDING, WETTING, AND MULCHING WHICH MINIMIZE AIRBORNE DUST AND PARTICULATE EMISSIONS GENERATED BY CONSTRUCTION ACTIVITY. SUCH METHODS SHALL BE COMPLETED PROGRESSIVELY AND ACTIVELY MAINTAINED AS VEGETATION REMOVAL OCCURS WITHIN A GIVEN AREA OF A SITE. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL INFORM THE COUNTY WHICH VEGETATION REMOVAL METHODS WILL BE CONDUCTED AND THE PLAN TO MINIMIZE AIRBORNE DUST AND PARTICULATE EMISSIONS.

EXISTING LEGEND	PROPOSED LEGEND
PROPERTY LINE	LIMIT OF DISTURBANCE
EXISTING SIGN	PROP. TEMPORARY SILT DIKE ON PAVEMENT
EXISTING WATER METER	PROP. TEMPORARY SILT FENCE
EXISTING WATER VALVE	PROP. TEMPORARY PARKING AND STAGING AREAS
EXISTING LIGHT POLE	PROP. TEMPORARY INLET FILTER
EXISTING STORM MANHOLE	TEMPORARY TREE PROTECTION BARRIER
EXISTING STORM STRUCTURE	
EXISTING GRATE INLET	
EXISTING TRANSFORMER	
EXISTING CURB	
EXISTING CONCRETE BLOCK WALL	
EXISTING FIRE HYDRANT	
EXISTING BACKFLOW PREVENTER	
EXISTING CABLE RISER	
TRAFFIC SIGNAL JUNCTION BOX	
TRAFFIC SIGNAL POLE	

FLOOD ZONE NOTE

1. FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; MAP COMMUNITY #120161; PANEL # 0020; SUFFIX G; MAP DATE: 03/16/2015.

DATUM NOTE

- THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (N.A.V.D. 88)
1. STATION IS A MARTIN COUNTY MAG NAIL AND BLUE ALUMINUM WASHER (US-D), LOCATED ABOUT 0.78 NORTH-WESTERLY OF JENSEN BEACH BOULEVARD AT THE NORTHWEST CORNER OF INTERSECTION U.S. HIGHWAY NO. 1 AND EUGENIA STREET, 17.3 SOUTH-WESTERLY OF THE WESTERLY EDGE OF PAVEMENT OF EUGENIA STREET. SET IN THE EASTERLY SIDE OF A CONCRETE BASE FOR A TRAFFIC SIGNAL POLE AT THE WELLS FARGO BANK, EL. 14.54' (NAV D88)
 2. TBM #1 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 5.0' SOUTH-WEST OF THE NORTHEAST CORNER OF SUBJECT PARCEL, EL. 14.47' (NAV D88)
 3. TBM #2 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 29.6' NORTHWEST OF THE SOUTHWEST CORNER OF SUBJECT PARCEL, EL. 14.60' (NAV D88)

Bowman

CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

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www.bowman.com
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EROSION CONTROL PLAN - PHASE I
WEST JENSEN PUD, PHASE 1B
PARCEL 12.7
FIFTH THIRD BANK
4110 NW FEDERAL HWY.
JENSEN BEACH, FL 34957

010900-01-002
BOWMAN PROJECT NUMBER

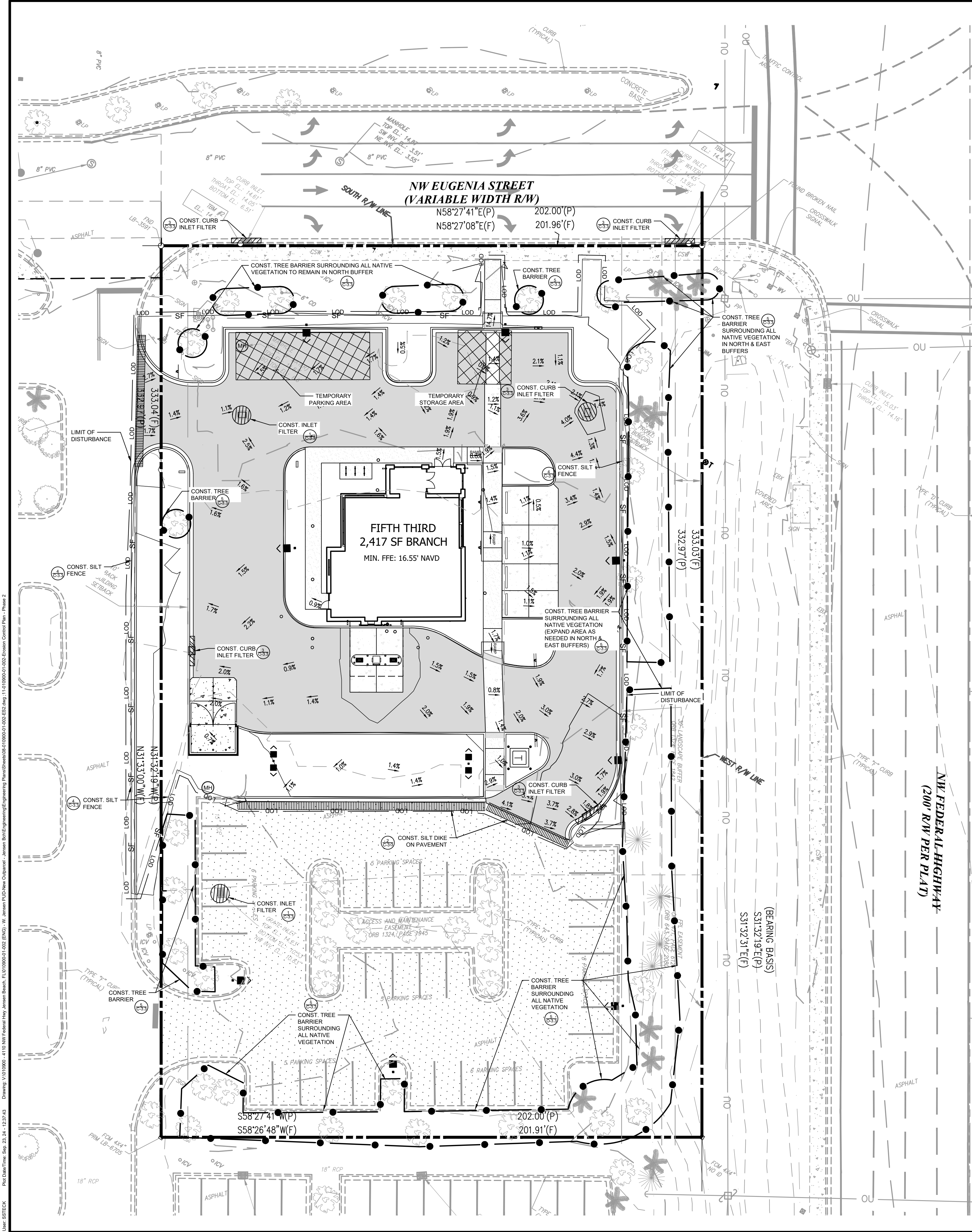
ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421

PLAN STATUS	
01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION
07/23/24	COUNTY COMMENTS

BD DESIGN	BD DRAWN	WEP CHKD
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JOB No. 010900-01-002
DATE: 9/23/2024
FILE: 07-010900-01-002-ES1.dwg

C-3.1



CONSTRUCTION SEQUENCE

1. CONDUCT PRE-CONSTRUCTION MEETING WITH THE COUNTY TO DISCUSS EROSION AND SEDIMENT CONTROLS AND CONSTRUCTION PHASING.
2. INSTALL AND POST SWPPP AND SITE COMPLIANCE SIGNAGE PUBLICLY VISIBLE.
3. INSTALL INLET PROTECTION, SILT DIKES, AND SILT FENCE ON THE SITE AS SHOWN.
4. INSTALL CONSTRUCTION FENCES AND TEMPORARY TRAFFIC AND PEDESTRIAN CONTROL DEVICES.
5. PREPARE TEMPORARY PARKING AND STORAGE AREAS.
6. DEMO EXISTING STRUCTURES, PAVEMENT, AND SPECIFIED UTILITIES.
7. BEGIN GRADING THE SITE.
8. BEGIN CONSTRUCTION OF UTILITIES.
9. BEGIN SUBGRADE PREPARATION AND CONSTRUCTION OF STRUCTURES.
10. BEGIN INSTALLATION OF CURB, GUTTER, AND PAVING.
11. COMPLETE PERMANENT STABILIZATION ON AREAS WHERE CONSTRUCTION HAS BEEN COMPLETED.
12. COMPLETE FINAL GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
13. OBTAIN CONCURRENCE FROM THE OWNER AND THE COUNTY THAT THE SITE HAS BEEN FULLY STABILIZED.
14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
15. STABILIZE ALL AREAS DISTURBED BY BMP REMOVAL.

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BMP MAINTENANCE NOTES

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2. ALL SEEDED/SODDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED, WATERED AND REPAIRED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCE WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FENCE.
4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF SEDIMENT FROM THE SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE EXIT AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN A GOOD CONDITION. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE AREA AS CONDITIONS DEMAND.
6. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. ANY DEBRIS AND/OR SEDIMENT LEAVING THE SITE SHALL BE CLEANED IMMEDIATELY.
7. ALL INLETS AND STORM DRAINS SHALL BE KEPT CLEAN OF DEBRIS AND SEDIMENT. ANY DEBRIS AND/OR SEDIMENT THAT ENTERS ANY INLET OR STORM DRAIN SHALL BE CLEANED IMMEDIATELY. FLUSHING SHALL NOT BE USED TO CLEAN DEBRIS AND/OR SEDIMENT FROM STORM DRAINS.

GENERAL EROSION CONTROL NOTES

1. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED AND THAT CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DIRECTED BY PERMITTING AGENCY AND OWNER OR AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
2. PERMIT(S) FOR ANY CONSTRUCTION ACTIVITY MUST BE MAINTAINED ON SITE AT ALL TIMES.
3. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE FDEP GENERIC PERMIT.
4. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
5. ALL WASH WATER SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
7. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY STOPPED FOR AT LEAST 7 DAYS, SHALL BE TEMPORARILY SEEDDED.
11. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE SODDED/LANDSCAPED PER PLANS. THESE AREA SHALL BE SODDED/LANDSCAPED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
12. IF THE ACTION OF VEHICLES TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD, IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
13. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
14. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
15. ON-SITE AND OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH FDEP GENERIC PERMIT REQUIREMENTS.
16. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
17. DUE TO CONSTRUCTION ACTIVITIES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT EROSION AND SEDIMENTATION.
18. CONTRACTOR SHALL DESIGNATE/IDENTIFY AREAS INSIDE THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.
19. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH THE EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
20. ALL EXISTING SIGNALIZATION EQUIPMENT TO REMAIN IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS MARTIN COUNTY IS NOTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
21. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING THE CONSTRUCTION ACTIVITIES. (ONCE CONTRACTOR IS SELECTED, A QUALIFIED FOREMAN/SUPERVISOR WILL BE DESIGNATED AND AVAILABLE AT THE PRE-CONSTRUCTION MEETING)
22. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED, DURING ANY PHASE OF DEVELOPMENT, AT THE DISCRETION OF THE COUNTY'S INSPECTOR.

MARTIN COUNTY ENVIRONMENTAL NOTES:

1. PROPERTY CORNERS SHALL BE LOCATED BY A LICENSED LAND SURVEYOR AND CLEARLY MARKED IN THE FIELD PRIOR TO THE ENGINEERING DEPARTMENTS PRE-CONSTRUCTION MEETING FOR SITE DEVELOPMENT.
2. AUTHORIZATION TO INSTALL EROSION CONTROL DEVICES AND PRESERVE BARRICADES WILL BE GRANTED AT THE PRE-CONSTRUCTION MEETING. THIS AUTHORIZATION SHALL BE POSTED ON THE SITE, IN THE PERMIT BOX. ITS LOCATION SHOWN ELSEWHERE ON THIS PAGE.
3. NO ADDITIONAL LAND CLEARING SHALL COMMENCE UNTIL A SATISFACTORY INSPECTION OF THE REQUIRED EROSION CONTROL BARRICADES HAS BEEN OBTAINED.
4. ALL CONSTRUCTION BARRICADES AND SILT FENCES WILL REMAIN IN PLACE AND BE MONITORED FOR COMPLIANCE BY THE PERMIT HOLDER DURING THE PERMITTED DEVELOPMENT ACTIVITIES.
5. PRIOR TO SCHEDULING A FINAL ENVIRONMENTAL INSPECTION FOR THE INFRASTRUCTURE, ALL BARRICADES AND EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
6. CONTRACTOR MUST USE SITE STABILIZATION METHODS, SUCH AS, BUT NOT LIMITED TO, SEEDING, WETTING, AND MULCHING WHICH MINIMIZE AIRBORNE DUST AND PARTICULATE EMISSIONS GENERATED BY CONSTRUCTION ACTIVITY. SUCH METHODS SHALL BE COMPLETED PROGRESSIVELY AND ACTIVELY MAINTAINED AS VEGETATION REMOVAL OCCURS WITHIN A GIVEN AREA OF A SITE. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL INFORM THE COUNTY WHICH VEGETATION REMOVAL METHODS WILL BE CONDUCTED AND THE PLAN TO MINIMIZE AIRBORNE DUST AND PARTICULATE EMISSIONS.

EXISTING LEGEND	PROPOSED LEGEND
PROPERTY LINE	PROPOSED ASPHALT PAVEMENT
EXISTING SIGN	PROPOSED CONCRETE PAVEMENT
EXISTING WATER METER	SEAL COATED AND RE-STRIPED ASPHALT
EXISTING LIGHT POLE	PROPOSED "D" CURB
EXISTING SEWER MANHOLE	PROPOSED "F" CURB
EXISTING STORM STRUCTURE	PROPOSED MANHOLE
EXISTING GRATE INLET	PROPOSED INLET
EXISTING TRANSFORMER	LIMIT OF DISTURBANCE
EXISTING CURB	PROP. TEMPORARY SILT DIKE ON PAVEMENT
EXISTING CONCRETE BLOCK WALL	PROP. TEMPORARY SILT FENCE
EXISTING FIRE HYDRANT	PROP. TEMPORARY PARKING AND STAGING AREAS
EXISTING BACKFLOW PREVENTER	PROP. TEMPORARY INLET FILTER
EXISTING CABLE RISER	TEMPORARY TREE PROTECTION BARRIER
TRAFFIC SIGNAL JUNCTION BOX	
TRAFFIC SIGNAL POLE	

FLOOD ZONE NOTE

1. FLOOD ZONE: X; BASE FLOOD ELEVATION: NONE; MAP COMMUNITY #120161, PANEL # 0020, SUFFIX G; MAP DATE: 03/16/2015.

DATUM NOTE

- THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF 1988 (N.A.V.D. 88)
1. STATION IS A MARTIN COUNTY MAG NAIL AND BLUE ALUMINUM WASHER (US-D), LOCATED ABOUT 0.78 NORTHWESTERLY OF JENSEN BEACH BOULEVARD AT THE NORTHWEST CORNER OF INTERSECTION U.S. HIGHWAY NO Q AND EUGENIA STREET. 17.3' SOUTHWESTERLY OF THE WESTERLY EDGE OF PAVEMENT OF EUGENIA STREET. SET IN THE EASTERLY SIDE OF A CONCRETE BASE FOR A TRAFFIC SIGNAL POLE AT THE WELLS FARGO BANK. EL. 14.54' (NAVDB88)
 2. TBM #1 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 5.0' SOUTHWEST OF THE NORTHEAST CORNER OF SUBJECT PARCEL. EL. 14.47' (NAVDB88)
 3. TBM #2 STATION IS A NAIL AND DISK STAMPED "EBI LB-7652" LOCATED 29.6' NORTHWEST OF THE SOUTHWEST CORNER OF SUBJECT PARCEL. EL. 14.60' (NAVDB88)

EROSION CONTROL PLAN - PHASE II

WEST JENSEN PUD, PHASE 1B

PARCEL 12.7

FIFTH THIRD BANK

4110 NW FEDERAL HWY.

JENSEN BEACH, FL 34957

010900-01-002

BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421

PLAN STATUS

01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION
07/23/24	COUNTY COMMENTS

BD DESIGN	BD DRAWN	WEP CHKD
JOB No. 010900-01-002		

DATE: 9/23/2024

FILE: 08-010900-01-002-ES2.dwg

SHEET

C-3.2

Bowman

CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

Bowman Consulting Group Ltd

910 SE 17TH ST.

Suite 300

Fort Lauderdale, FL 33316

Phone (954) 314-8481

www.bowman.com

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JENSEN BEACH

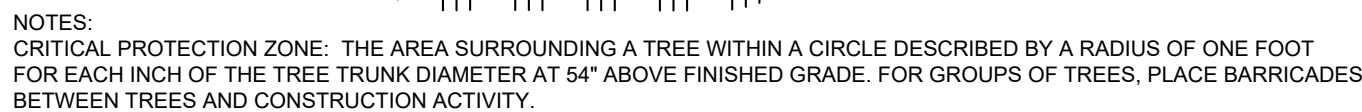
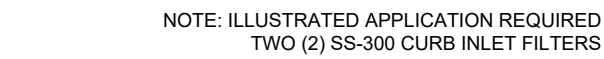
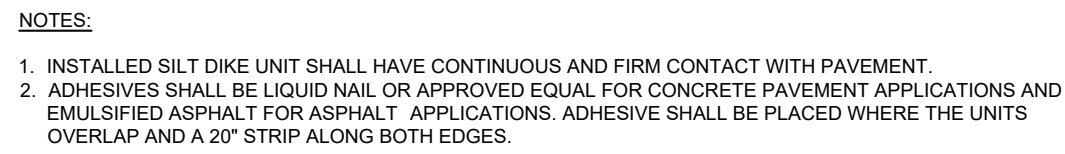
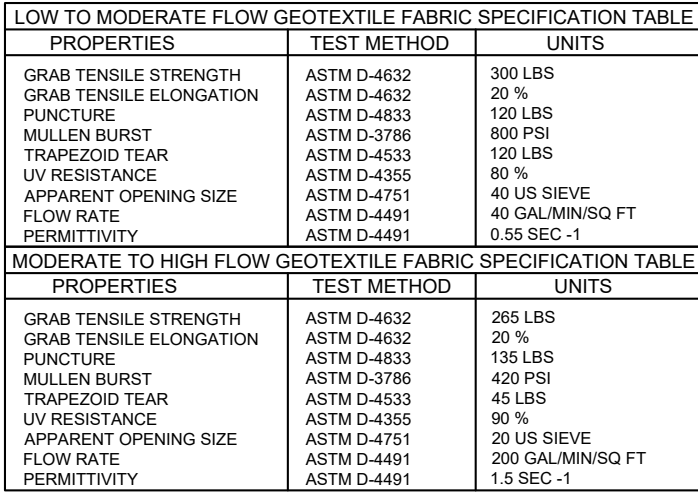
MARTIN COUNTY, FL



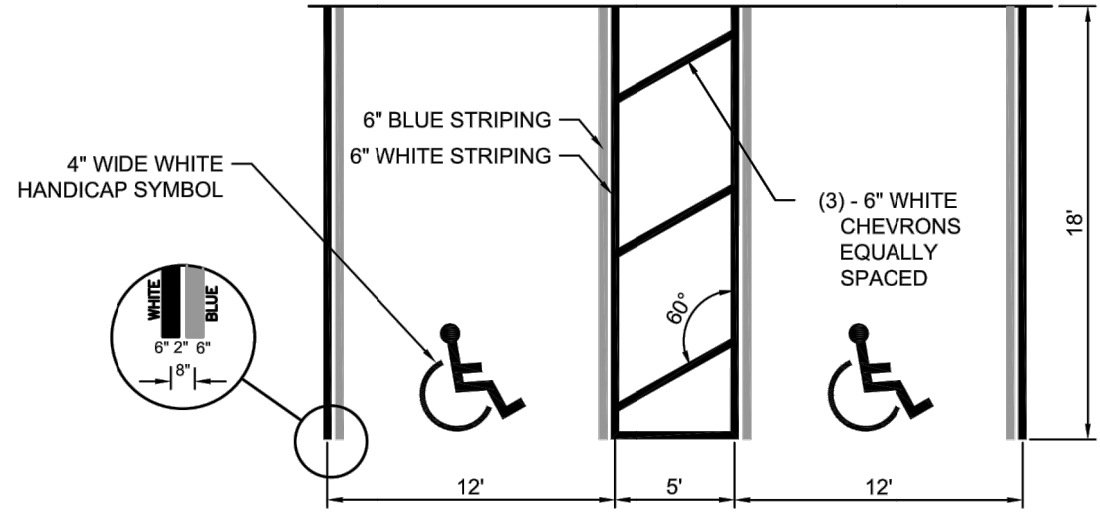
GRAPHIC SCALE



(IN FEET)
1 inch = 20 ft.



User: SST/CCK PLOT Date/Time: Sep. 23, 24, 12:28:10 Drawing: V:\010900-4110 NWF Federal Hwy Jensen Beach, FL\010900-01-002-DET.dwg W: Jensen PUD-New Outgated - Jensen Bldg\Engineering\Engineering Plans\Drawn\10-010900-01-002-DET.dwg C:\JL - Site and Drainage Details

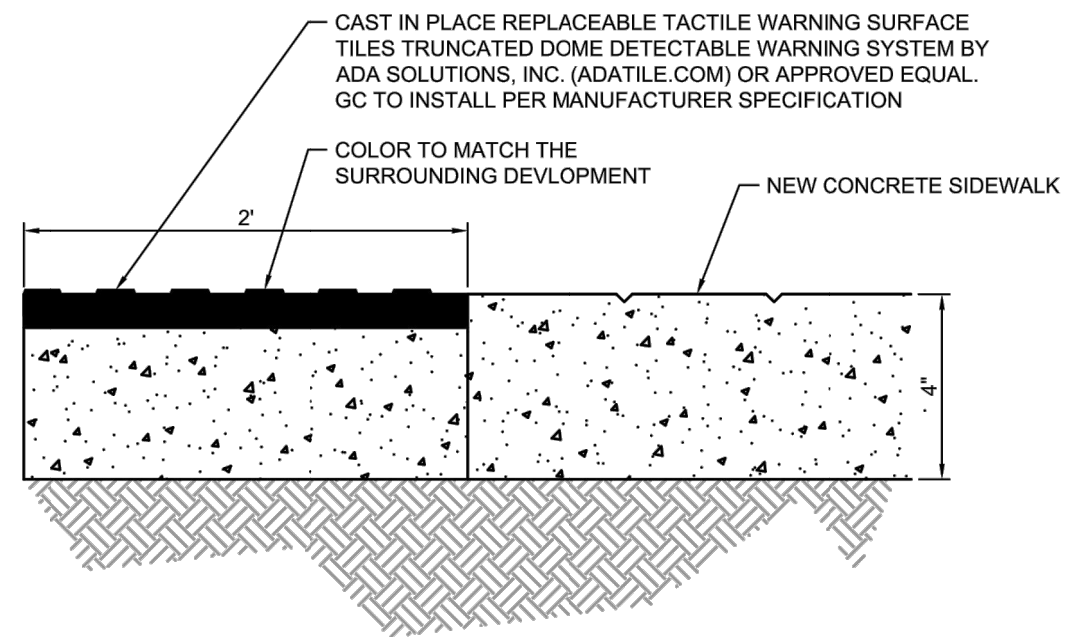


- NOTES:
1. DIMENSIONS ARE MEASURED FROM THE CENTER OF WHITE STRIPES
 2. ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC.

HANDICAP PARKING STRIPING

SCALE
NTS

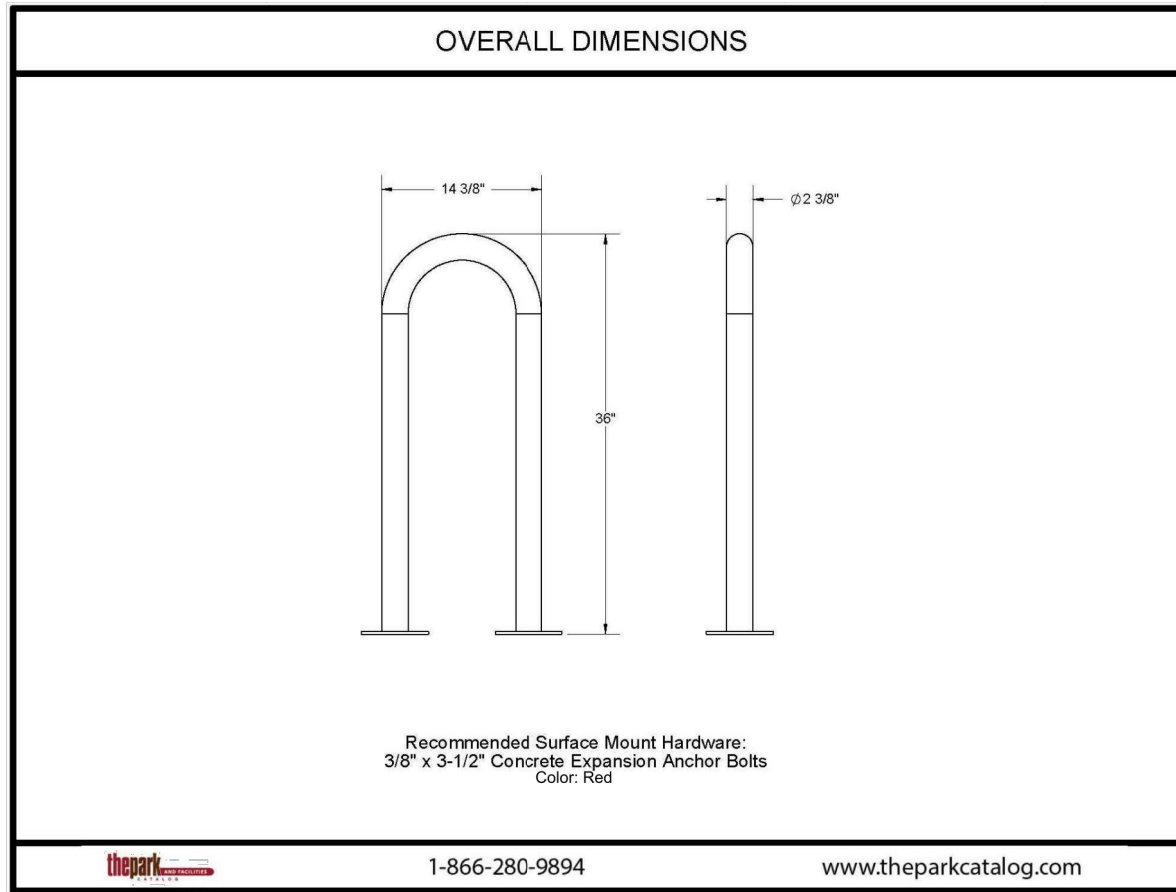
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DETECTABLE WARNING

SCALE
NTS

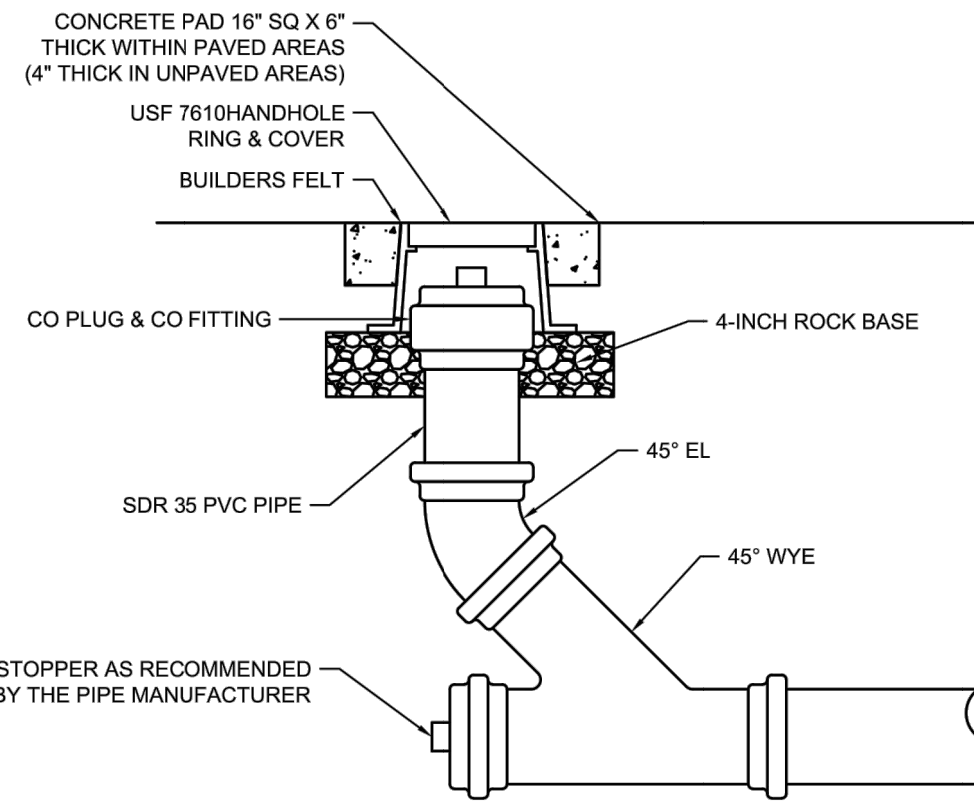
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BICYCLE RACK SINGLE LOOP

SCALE
NTS

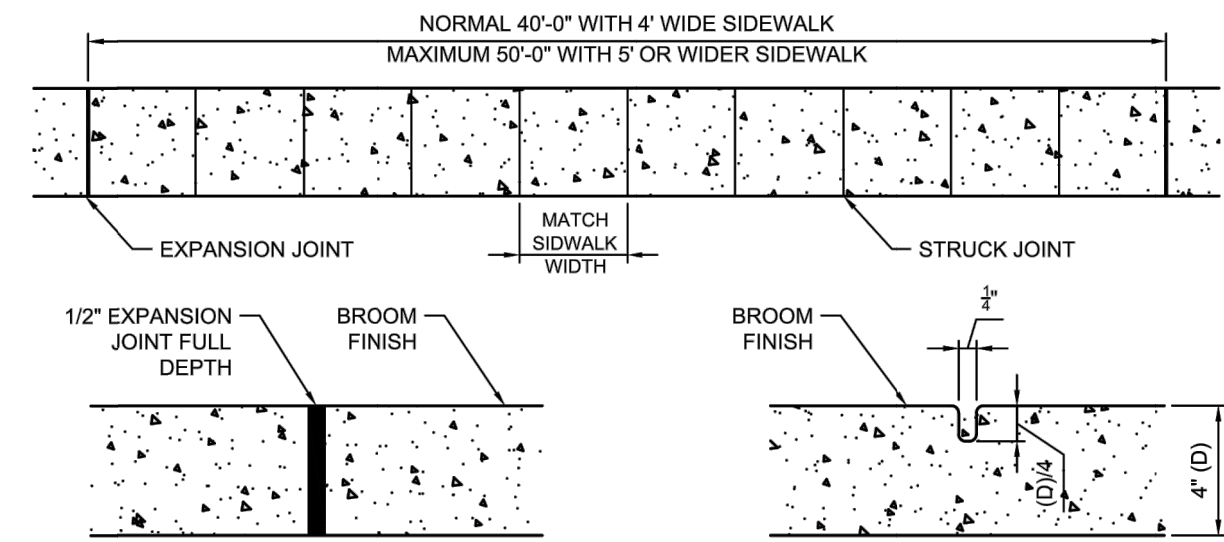
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CLEANOUT

SCALE
NTS

4

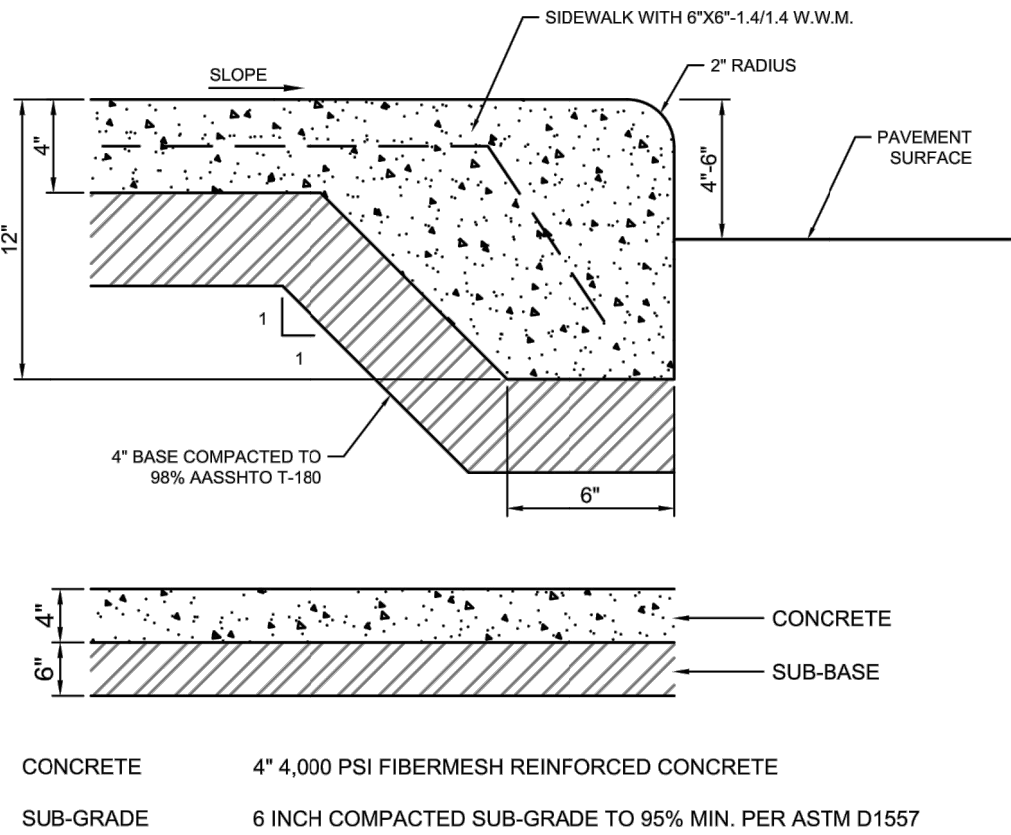


- NOTES:
- EXPANSION JOINT**
1. SIDEWALK EXPANSION JOINTS TO BE AT ALL TIES TO CONCRETE OTHER THAN DRIVEWAYS. MAXIMUM SPACING SHALL BE 50-FOOT.
 2. EXPANSION JOINT MATERIAL SHALL BE ASPHALT FIBER IMPREGNATED PREFORMED JOINT FILLER, TO FULL DEPTH OF CONCRETE.
 3. ALL SIDE WALKS SHALL BE CONSTRUCTED OF 4-INCH THICK 4,000 PSI PORTLAND CEMENT CONCRETE WITH FIBERMESH REINFORCEMENT AND SHALL BE INSTALLED OVER COMPACTED SUB-GRADE (LBR 40 MIN.)
 4. CONTROL JOINT SPACING SHALL BE MATCH WITH SIDEWALK WIDTH.
 5. CONTROL JOINT MUST BE PERFORMED WITHIN 12 HOURS OF CONCRETE PLACEMENT TO A DEPTH NO LESS THAN 1/4-INCH THE OVERALL CONCRETE DEPTH.
- CONTROL JOINT**

CONCRETE SIDEWALK

SCALE
NTS

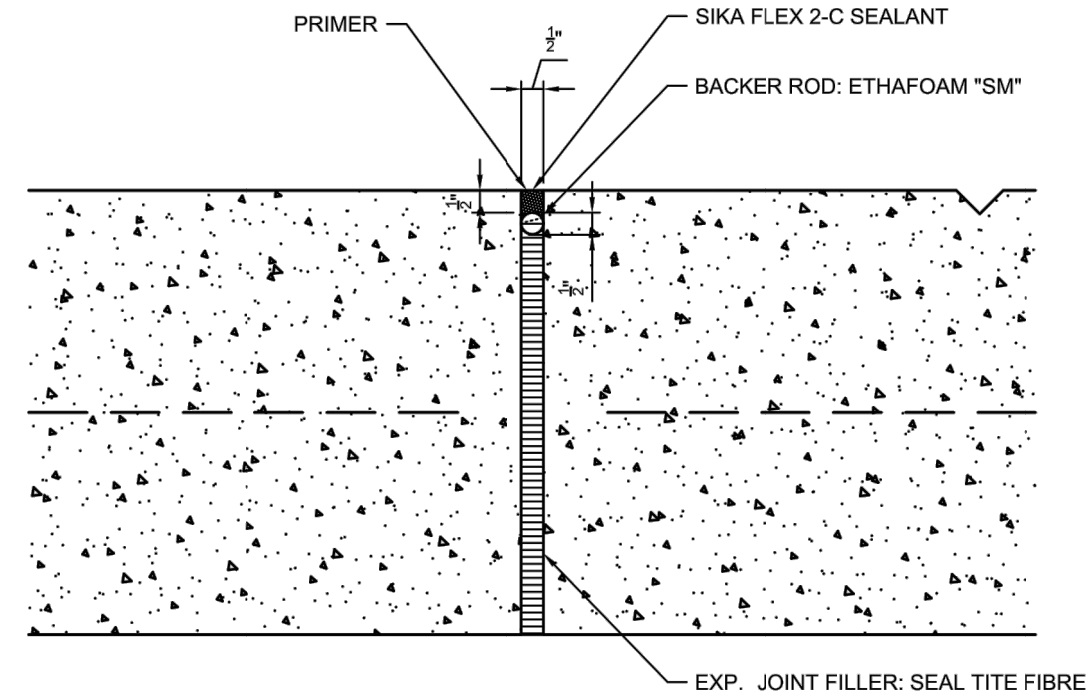
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INTEGRAL CURB SIDEWALK

SCALE
NTS

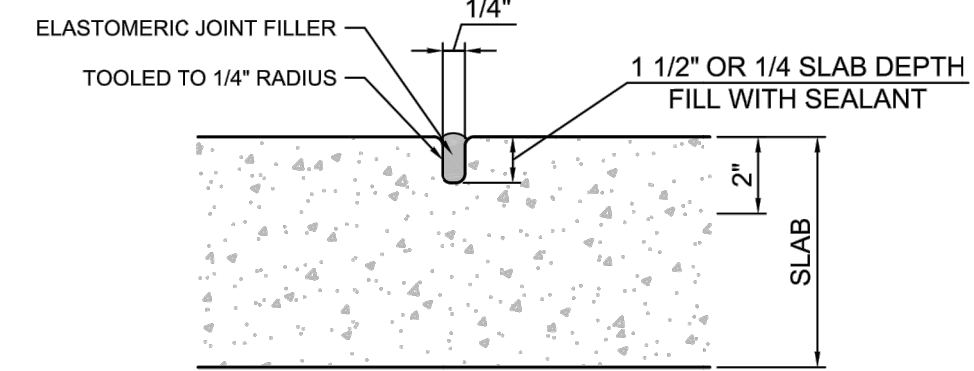
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EXPANSION JOINT

SCALE
NTS

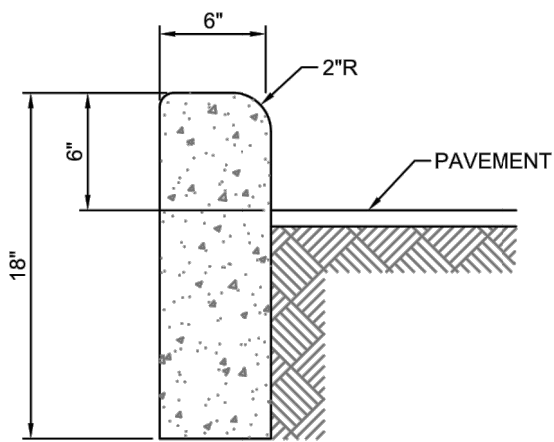
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SAWCUT CONTROL JOINT

SCALE
NTS

8

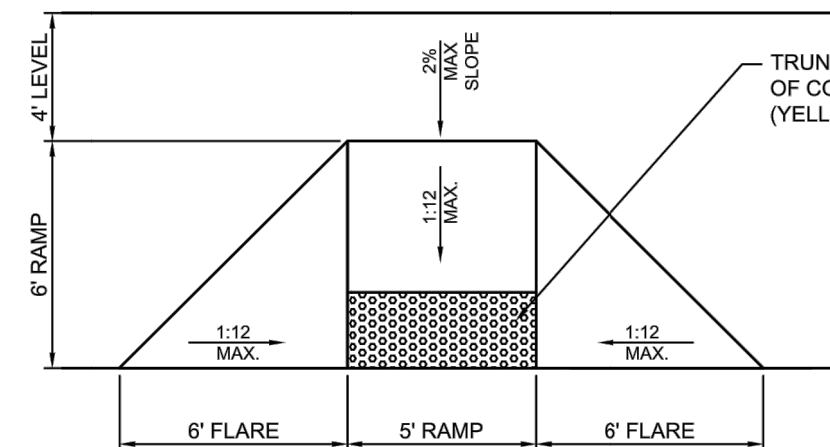


NOTE: CURB SHALL BE CAST OF 4,000 P.S.I. CONCRETE.

6" CURB

SCALE
NTS

9



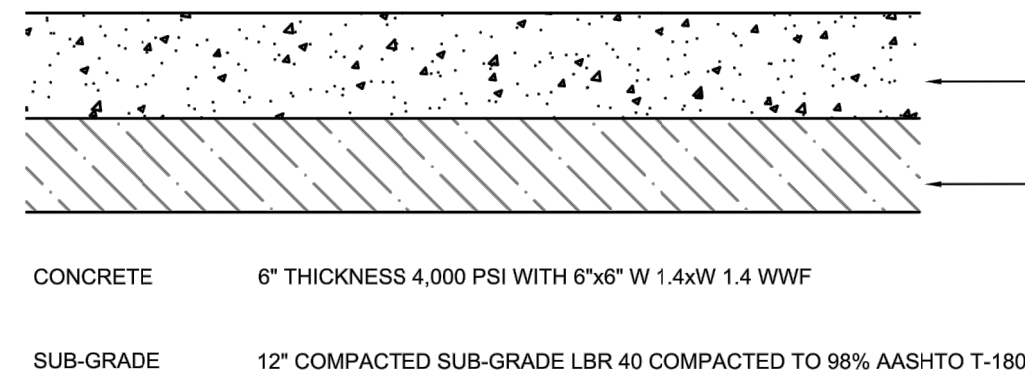
ACCESS RAMP CONSTRUCTION NOTES

1. THE SURFACE OF THE RAMP SHALL HAVE A TRANSVERSE BROOMED SLIP-RESISTANT SURFACE TEXTURE ROUGHER THAN THE SURROUNDING SIDE
2. RAMP CONSTRUCTION SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES AND REGULATIONS.

TYPICAL HANDICAP RAMP

SCALE
NTS

10

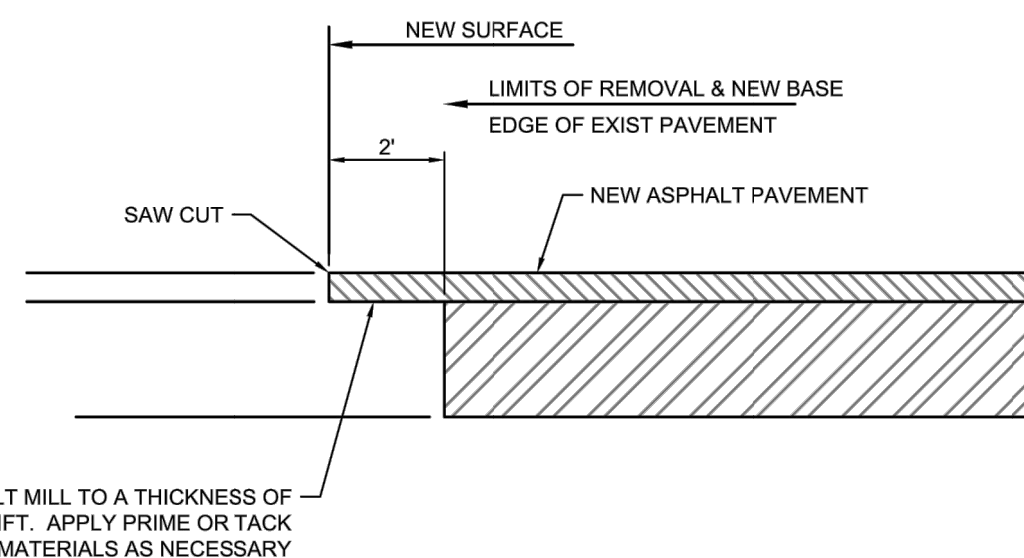


BLACK CONCRETE PAVEMENT

SCALE
NTS

11

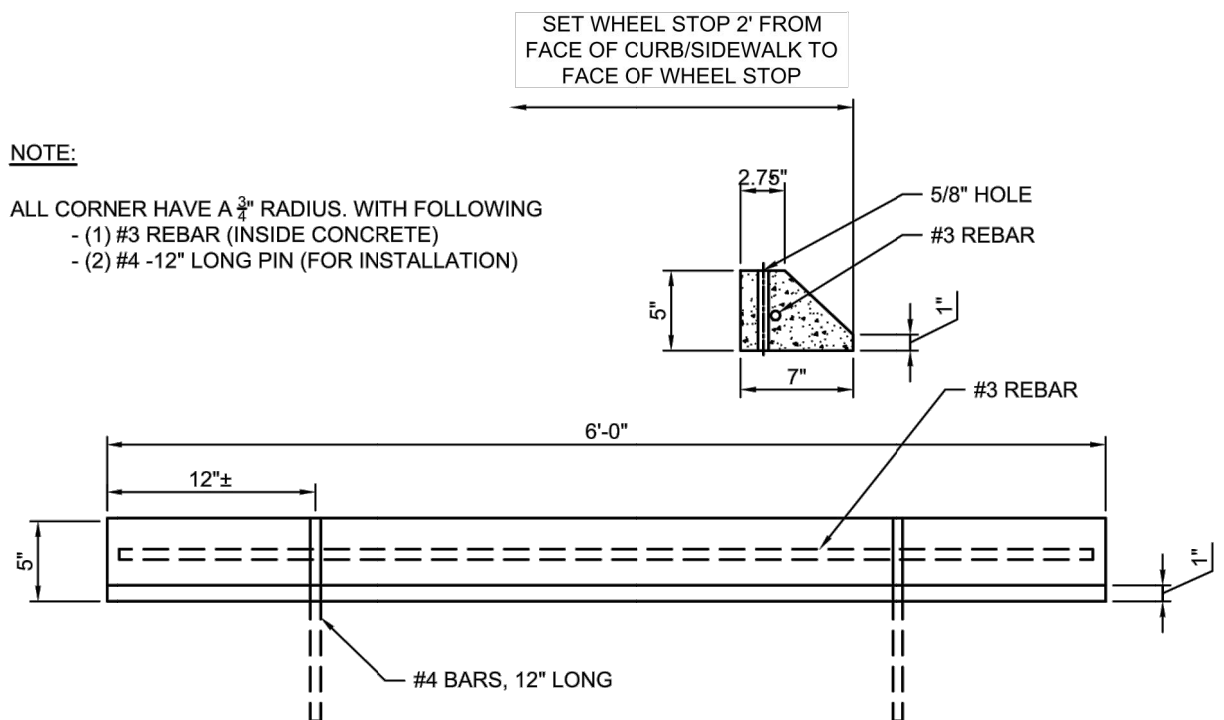
BLACK TINT NOTE:
* ACCESSIBLE PARKING AREAS ARE TO RECEIVE BLACK TINT ADDITIVE LAMBERT CORPORATION DEEP BLACK - 3% TINT



EXISTING ASPHALT PAVEMENT CONNECTION

SCALE
NTS

12

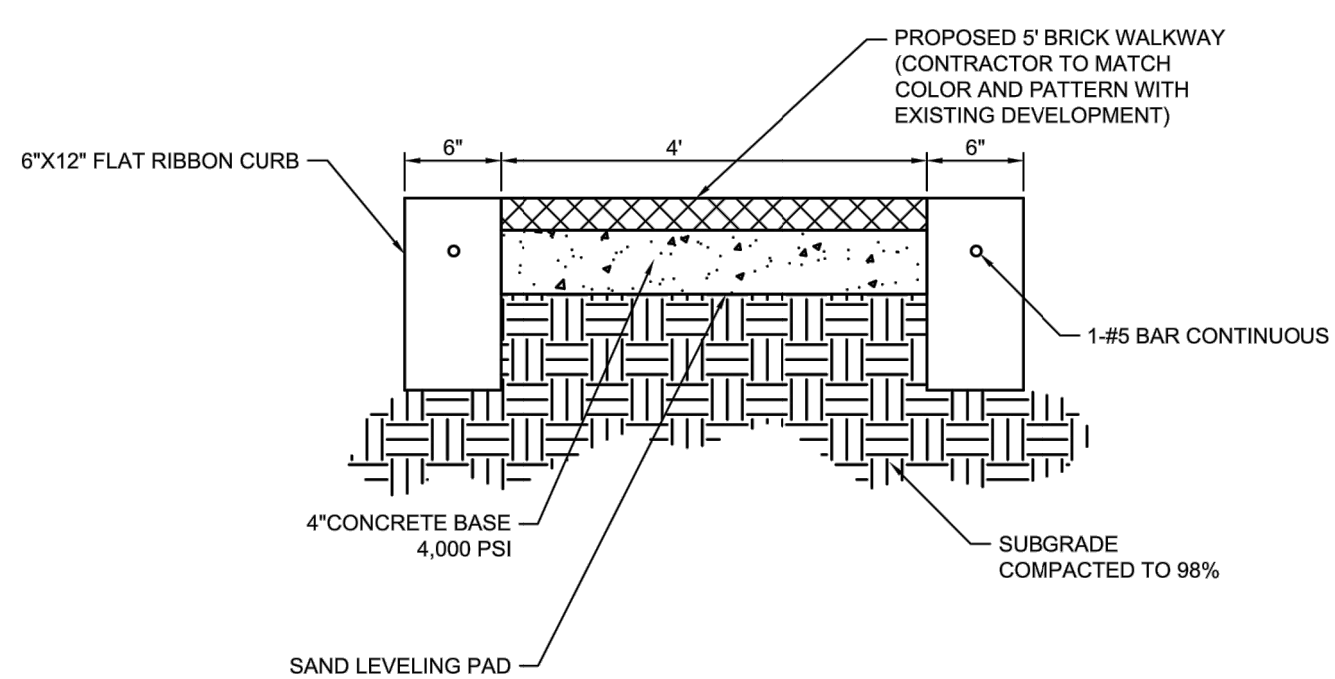


- NOTE:
- ALL CORNER HAVE A 3/4" RADIUS, WITH FOLLOWING
- (1) #3 REBAR (INSIDE CONCRETE)
 - (2) #4 -12" LONG PIN (FOR INSTALLATION)

WHEEL STOP DETAIL

SCALE
NTS

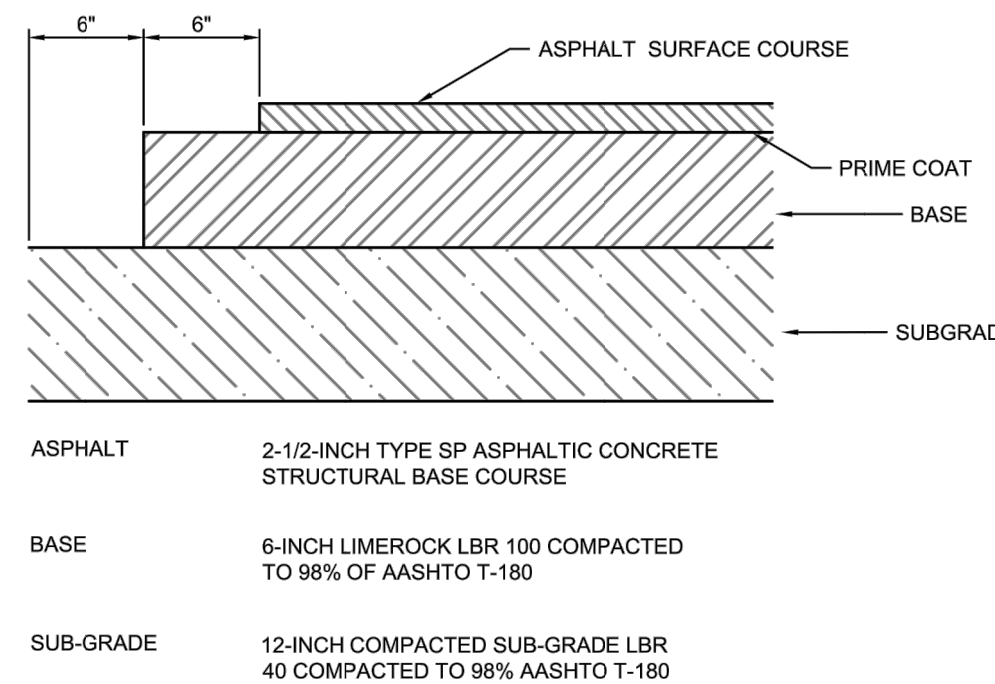
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CROSSWALK SECTION

SCALE
NTS

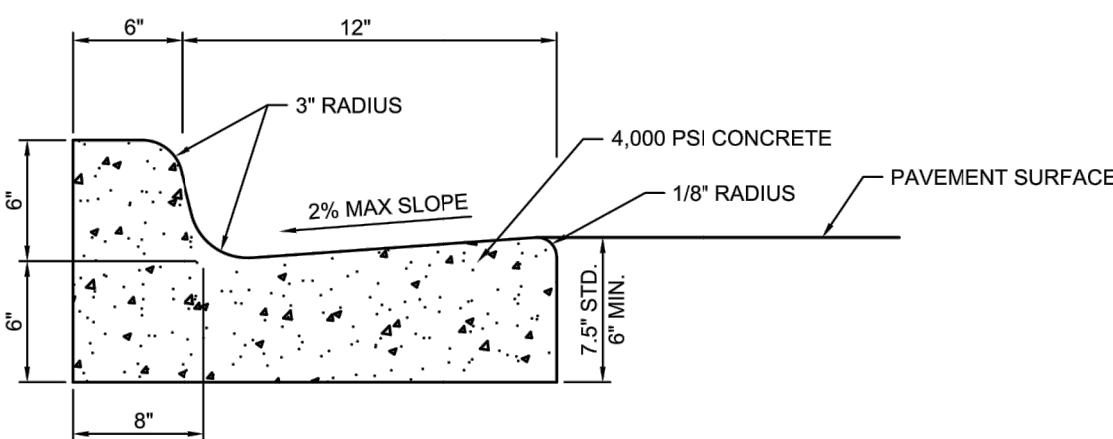
14



ASPHALT PAVEMENT

SCALE
NTS

15



18" CURB AND GUTTER

SCALE
NTS

16

SITE AND DRAINAGE DETAILS

WEST JENSEN PUD, PHASE 1B
PARCEL 12.7
FIFTH THIRD BANK
4110 NW FEDERAL HWY.
JENSEN BEACH, FL 34957

MARTIN COUNTY, FL

010900-01-002
BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421
PLAN STATUS

01/15/24
05/09/24
05/13/24

SITE PLAN REVISION
COUNTY COMMENTS
SITE PLAN REVISION

BD
DESIGN

BD
DRAWN

WEP
CHKD

JOB No. 010900-01-002

DATE: 9/23/2024

FILE: 10-010900-01-002-DET.dwg

SHEET

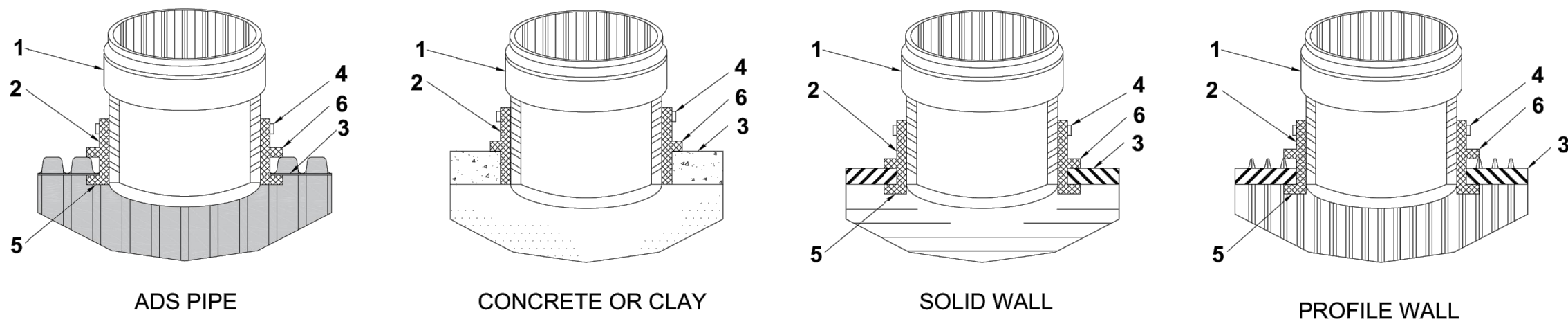
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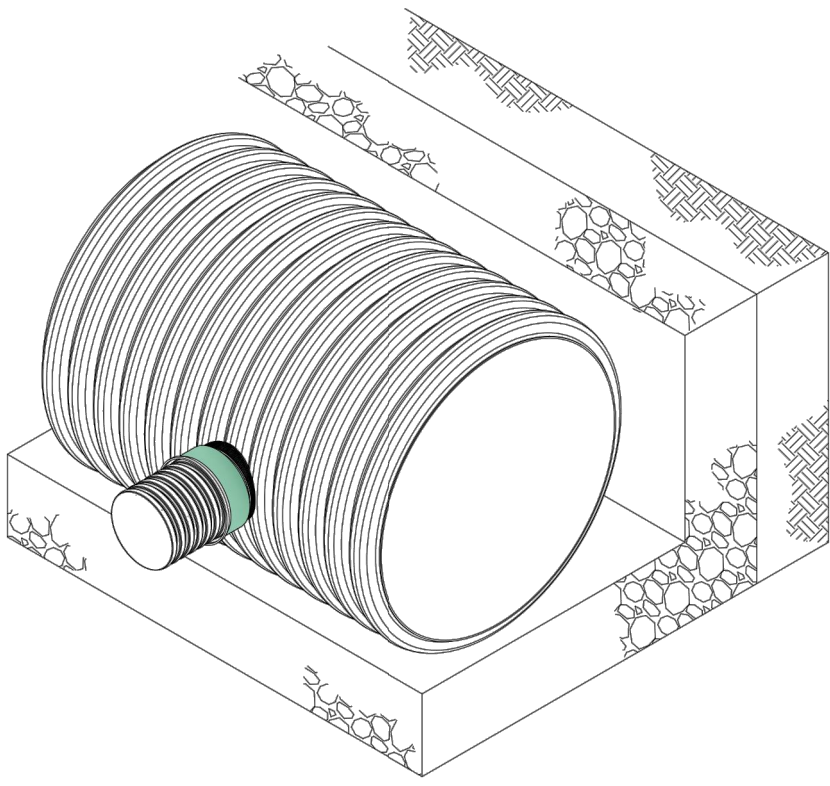
CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

INSERTA TEE® CONNECTION DETAILS



PART #	DESCRIPTION
1	PVC hub adapter which is driven into the center of the rubber sleeve after the rubber sleeve is in the hole.
2	Complete rubber sleeve consisting of ASTM F 477 specifications.
3	Mainline pipe wall where branch line is connected.
4	Stainless steel band, put on above rubber segment as an added precaution.
5	Rubber segment which is molded into the rubber sleeve. This prevents snap out on the inside of the drilled hole (plastic pipe only) and helps hold the fitting in place, not creating the seal.
6	Rubber segment which is molded into the rubber sleeve. This prevents the rubber sleeve from going through the drilled hole when PVC hub is being driven into the rubber sleeve.

Note: Watertight seal is accomplished when PVC hub is driven into rubber sleeve causing the rubber sleeve to compress between pipe wall and PVC hub.



ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

INSERTA TEE CONNECTION DETAILS



4640 TRUEMAN BLVD
HILLIARD, OH 43026

DESIGN BY	HAK
DATE	12/4/23
DRAWN BY	ENG
CHECKED BY	NTS
REVISION	1

DRAWING NUMBER STD-1123

INSERTA TEE® PROTRUSION CHART

Protrusion Percentage Per Mainline Diameter													
Inserta Tee Size	Maximum Protrusion	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"	60"
4"	0.60"	7.50%	6.00%	5.00%	4.00%	3.30%	2.90%	2.50%	2.00%	1.70%	1.40%	1.25%	1.00%
6"	0.60"	7.50%	6.00%	5.00%	4.00%	3.30%	2.90%	2.50%	2.00%	1.70%	1.40%	1.25%	1.00%
8"	0.60"		6.00%	5.00%	4.00%	3.30%	2.90%	2.50%	2.00%	1.70%	1.40%	1.25%	1.00%
10"	0.80"				5.30%	4.40%	3.80%	3.30%	2.70%	2.20%	1.90%	1.70%	1.30%
12"	0.90"					5.00%	4.30%	3.80%	3.00%	2.50%	2.10%	1.90%	1.50%
15"	1.00"						4.70%	4.20%	3.30%	2.80%	2.40%	2.10%	1.70%
18"	1.00"							4.20%	3.30%	2.80%	2.40%	2.10%	1.70%
24"	1.00"									2.80%	2.40%	2.10%	1.70%

Precise protrusion always depends on the type of mainline pipe used and the installation procedures followed. This chart is intended for reference only and is only for mainline pipes that are made from polyethylene, polyvinyl chloride, and ductile iron. These measurements should be approximate for mainlines that are solid wall, profile, closed profile, or corrugated. Mainlines that are clay or concrete do not protrude (0%).

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INSERTA TEE PROTRUSION CHART



4640 TRUEMAN BLVD
HILLIARD, OH 43026

DESIGN BY	HAK
DATE	06/21/24
DRAWN BY	ENG
CHECKED BY	NTS
REVISION	1

DRAWING NUMBER STD-1101

SITE AND DRAINAGE DETAILS

WEST JENSEN PUD, PHASE 1B
PARCEL 12.7
FIFTH THIRD BANK
4110 NW FEDERAL HWY.
JENSEN BEACH, FL 34957

010900-01-002
BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421
PLAN STATUS

01/15/24 SITE PLAN REVISION
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05/13/24 SITE PLAN REVISION

BD DESIGN BD DRAWN WEP CHKD
JOB No. 010900-01-002

DATE: 9/23/2024

FILE: 10-010900-01-002-DET.dwg

SHEET

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INSERTA TEE® ONEFIT™

What is the Inserta Tee OneFit™?

A OneFit is made for a specific lateral bell (N12, SDR, IPS) type and size and has an adjustable two-rubber sleeve design to fit any mainline pipe type (removal of inner segment from inner sleeve required for clay and concrete mainlines).

PART #	PART NAME
1	PVC HUB
2	INNER SLEEVE
3	ADJUSTABLE OUTER SLEEVE
4	S.S. BAND
5	ADJUSTABLE MAINLINE RANGE (0.25" - 3.50")
6	INNER SEGMENT
7	OVERALL LENGTH

CONFIGURATION OPTIONS		
Lateral	Mainline	Overall length
4"	10"-12"	10.00"
	15"+	10.50"
6"	10"-12"	10.50"
	15"+	10.50"
8"	12"-15"	11.75" (17.00" for IPS SCH40)
	18"+	11.75" (17.00" for IPS SCH40)

OneFit utilizes the same holesaws as other inserta tee products. Reference STD-1102 for more information.

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL STD-1102.

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

INSERTA TEE ONEFIT



4640 TRUEMAN BLVD
HILLIARD, OH 43026

DESIGN BY	HAK
DATE	01/25/24
DRAWN BY	ENG
CHECKED BY	NTS
REVISION	1

DRAWING NUMBER STD-1111

Inserta Tee® Roof Drains

Inserta Tee Lateral Connection is ideal for roof drains as it installs faster and is more economical than using fabricated reducing fittings or manholes for roof drain laterals.

Inserta Tee allows for easier mainline pipe grading and reduces cost by reducing labor hours and less pipe materials. New laterals can be connected where needed without disturbing the mainline pipe or backfill.

Applications

- Warehouse
- Commercial
- Industrial

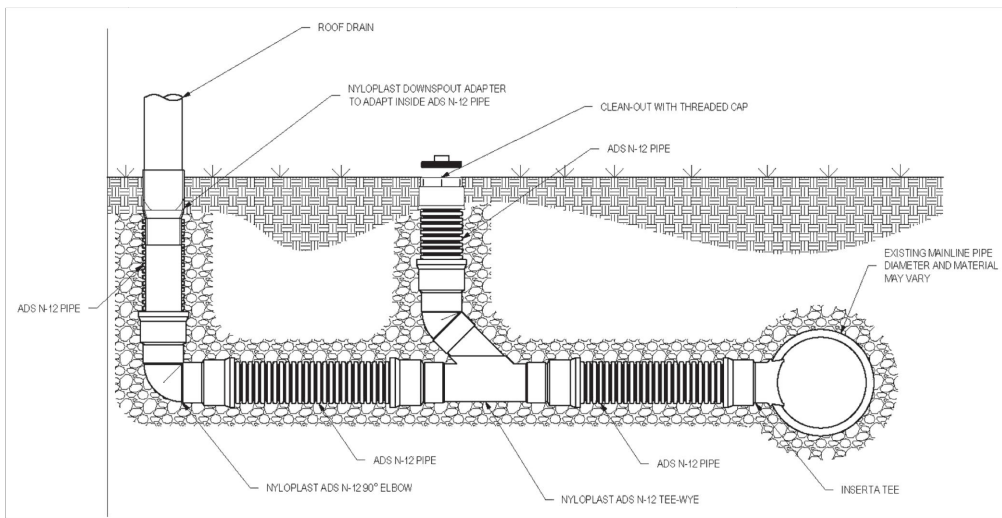
Features & Benefits

- Three-piece service connection: PVC hub, rubber sleeve, stainless steel band
- Connects 2"-24" (50-600 mm) services
- Inserta Tee OneFit™ available for 4"-8" (100-200 mm) services
- Connects to all known solid wall, profile, closed profile and corrugated pipe
- Eliminates glues, epoxies, grout & awkward gaskets
- Matches internal radius of any pipe to prevent protrusion
- Eliminates need to retighten bands around mainline
- Hole saws are available for all sizes*

*The use of installation methods or hole saws not purchased from Inserta Fittings will void the performance warranty of the product.

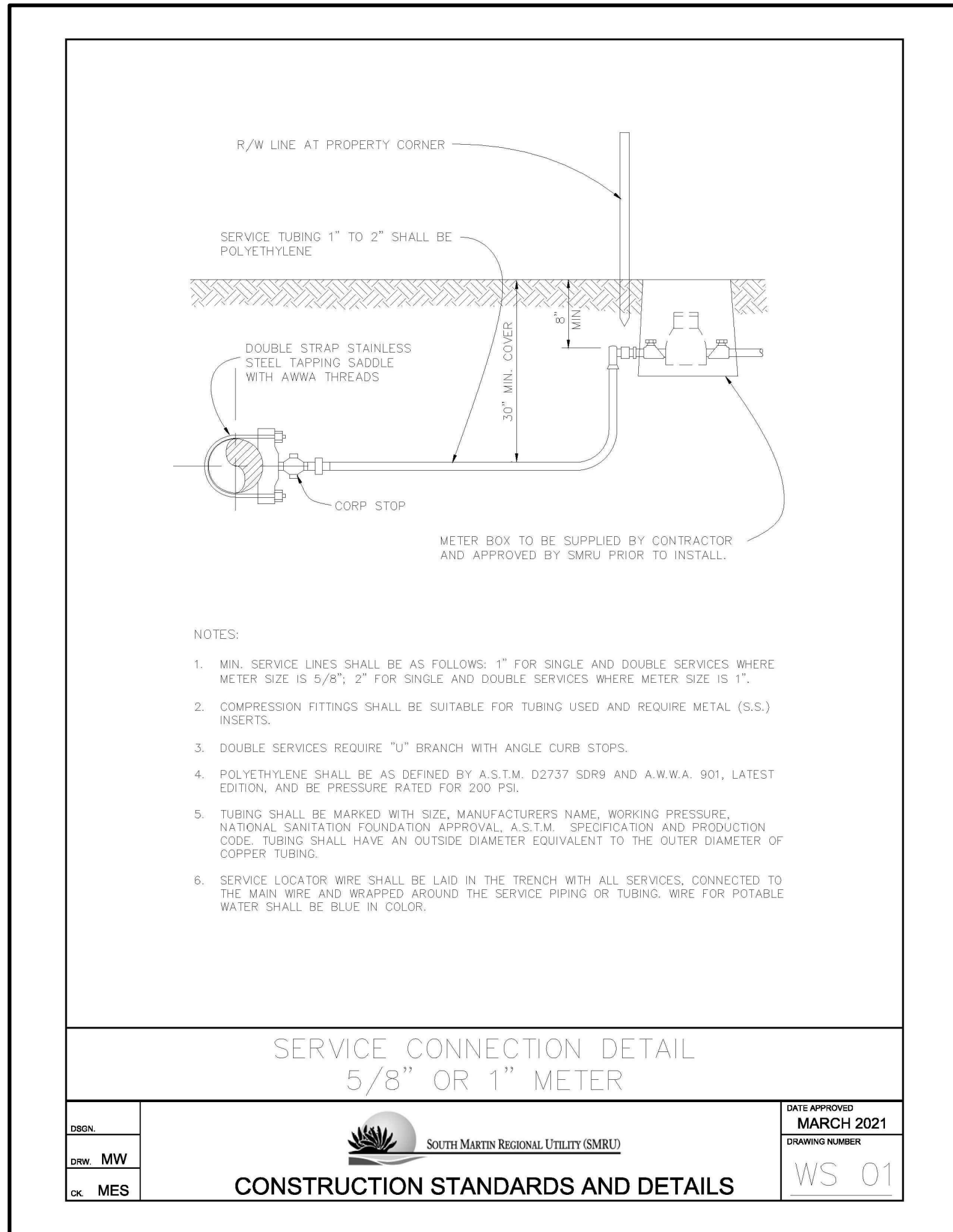
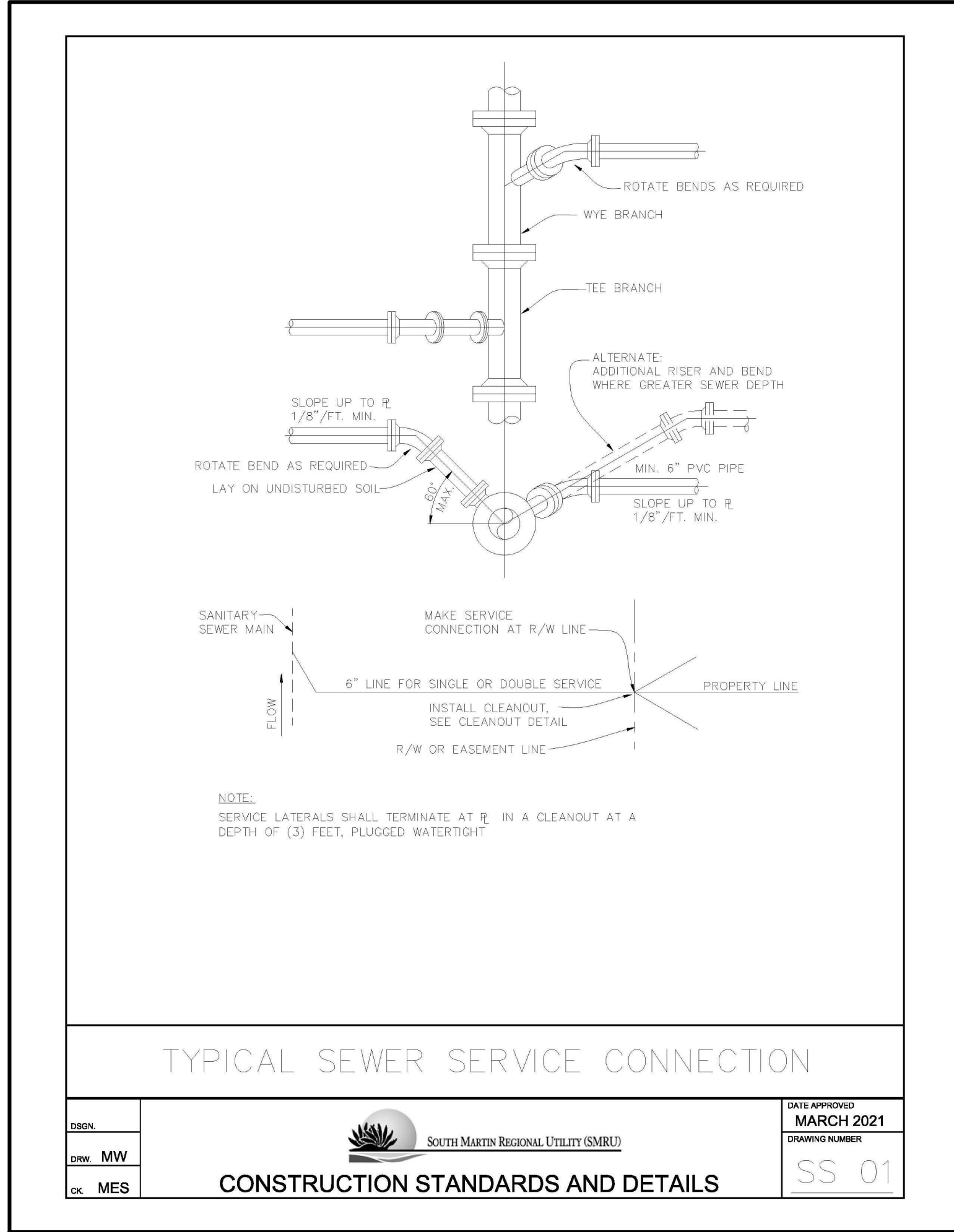
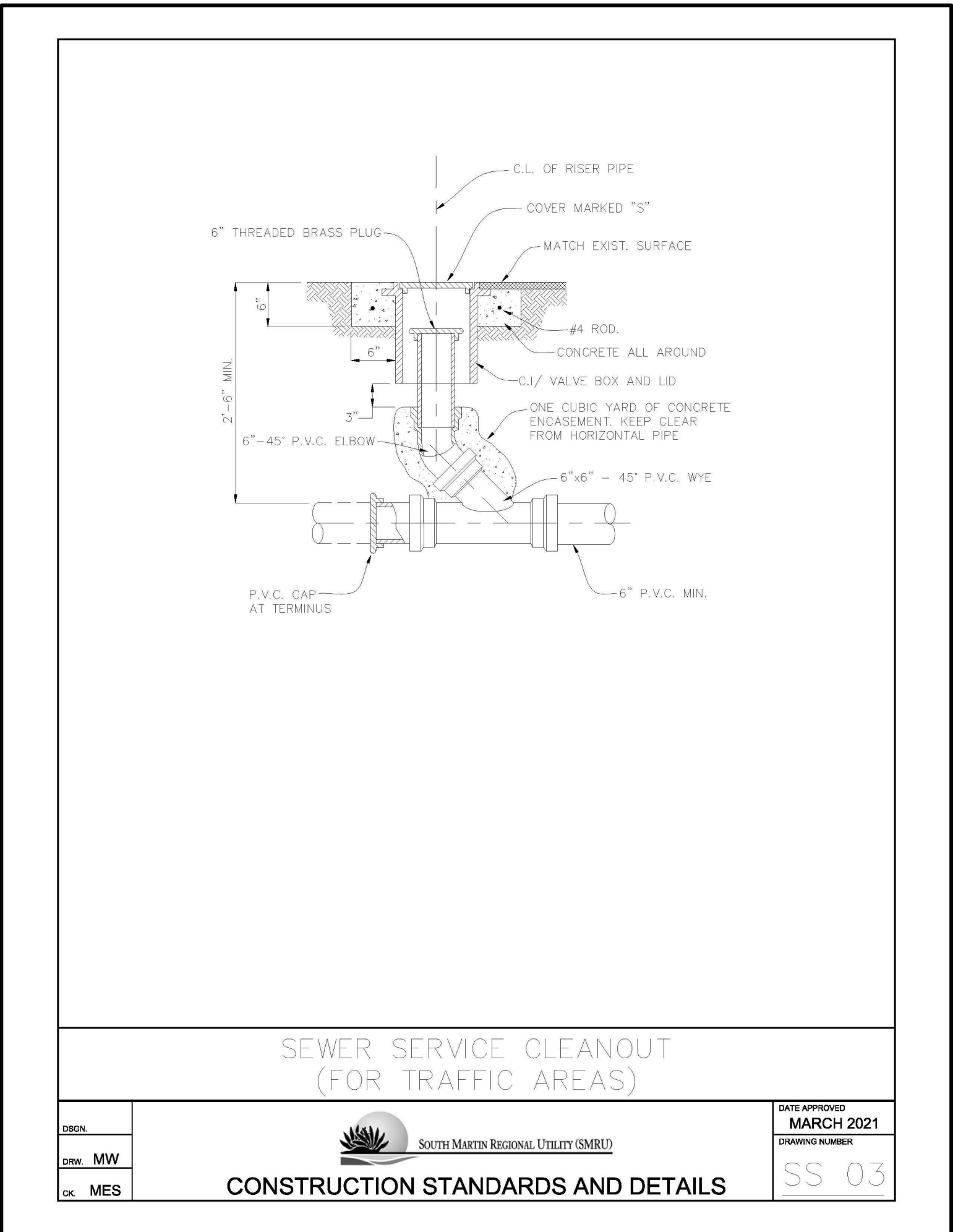
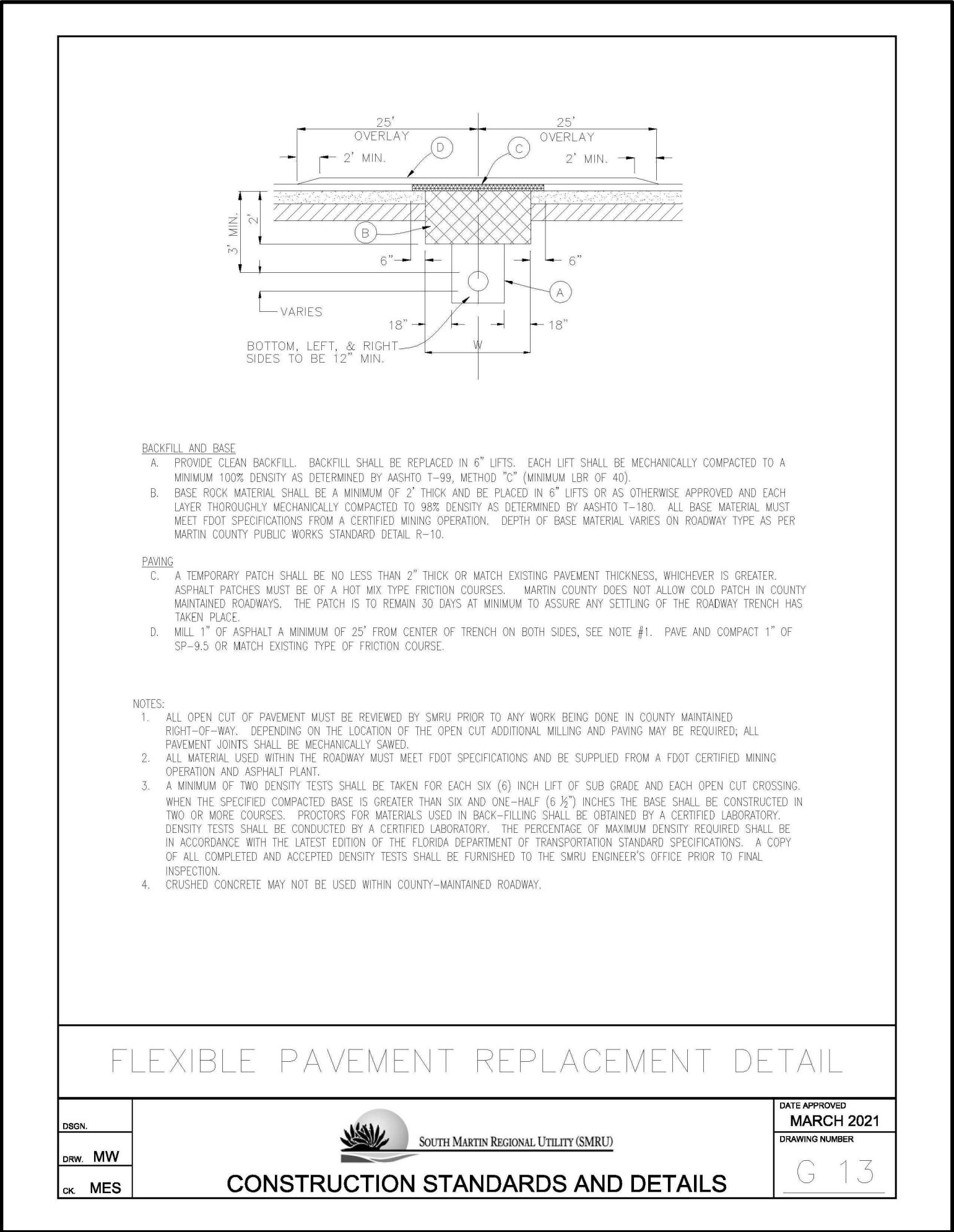
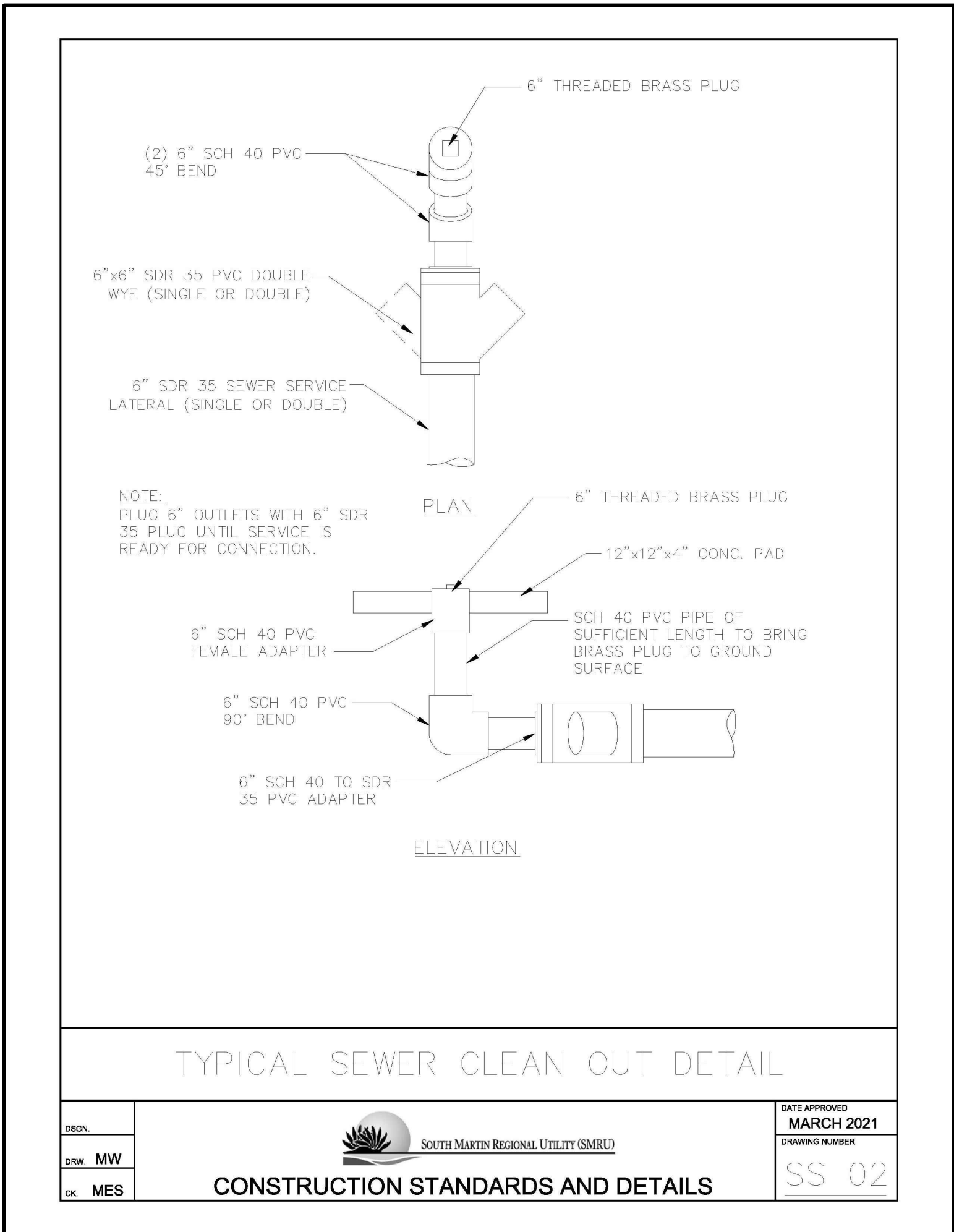
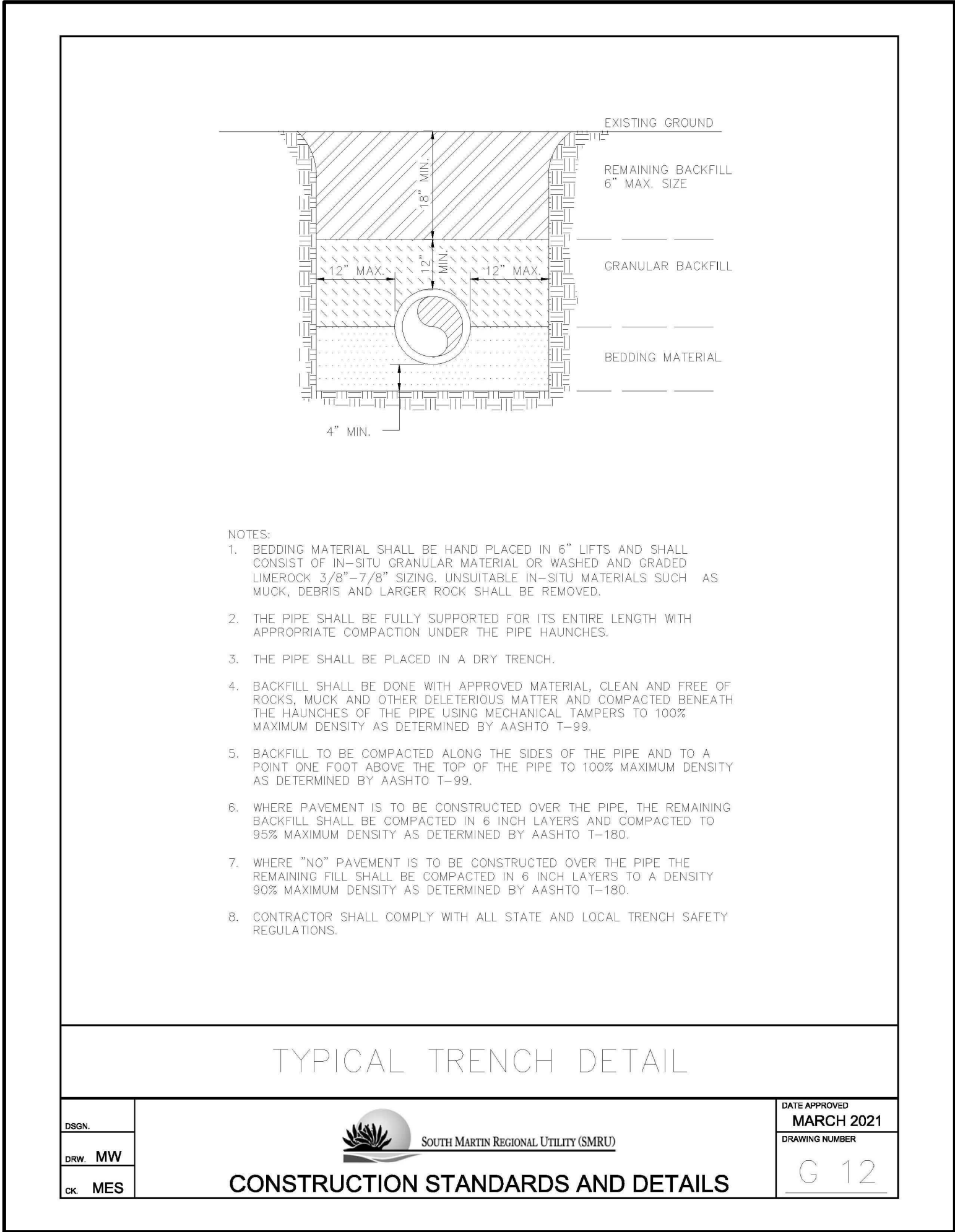


Click on the QR code to view an Inserta Tee installation video.



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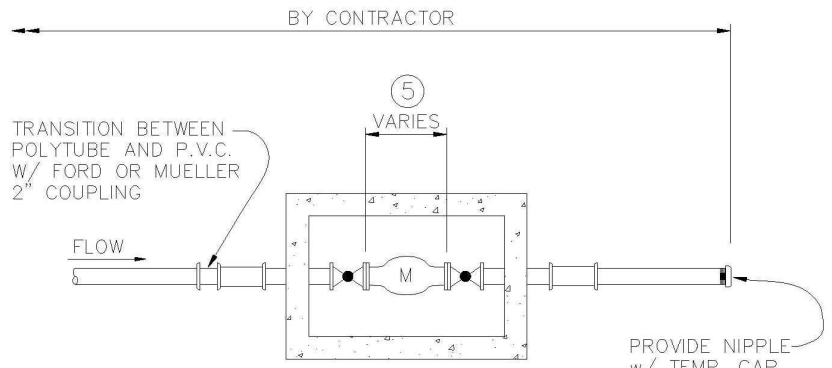
adspipe.com
800-821-6710



PLAN STATUS	
01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION

BD DESIGN	BD DRAWN	WEP CHKD
JOB No. 010900-01-002		
DATE: 9/23/2024		
FILE: 12-010900-01-002-UTD.dwg		

User: SSTCK Pld Date/Tme: Sep. 24, 12:28:04 Drawing: V:010900 - 4110 NW Federal Hwy Jensen Beach, FL 010900-01-002 (END) - W. Jensen PUD-New Outgased - Jensen Soil Engineering/Engineering Plans/Sheet 12-010900-01-002-UTD.dwg, 17-010900-01-002-Utility Details



BY CONTRACTOR

TRANSITION BETWEEN POLYURE AND P.V.C. W/ FORD OR MUELLER 2" COUPLING

FLOW


5 VALVE

PROVIDE NIPPLE W/ TEMP. CAP

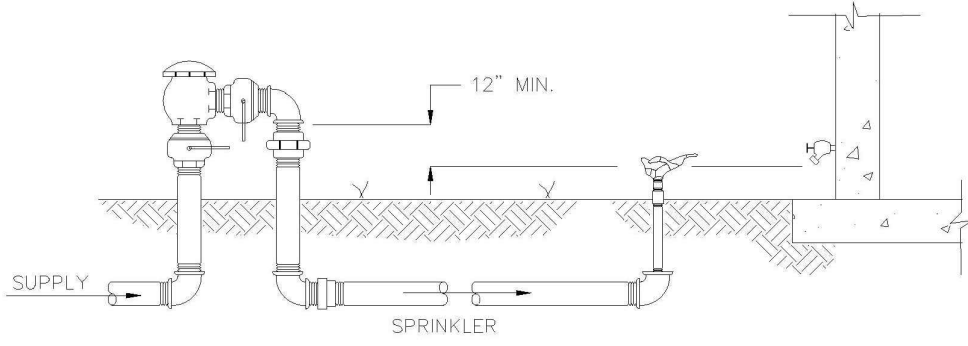
NOTES:

1. ALL VALVES TO BE STRAIGHT 2" BALL VALVES WITH LOCK-WING. (FLANGE AT METER) FORD OR APPROVED EQUAL.
2. SEE TYPICAL SERVICE DETAIL FOR MAIN CONNECTION.
3. METER BOX SHALL BE POLYMER CONCRETE AND FIBER REINFORCED POLYESTER.
4. PIPING SHALL BE 2" SCHEDULE 80 PVC WITH SCHEDULE 80 FITTINGS.
5. UTILITY PROVIDES AND INSTALLS METER. COORDINATE WITH UTILITY FOR PROPER METER SETTING LENGTH.

2" METER DETAIL

DESIGN	 SOUTH MARTIN REGIONAL UTILITY (SMRU)	DATE APPROVED MARCH 2021
DRAWN MW		DRAWING NUMBER
OK MES		WS 03

CONSTRUCTION STANDARDS AND DETAILS



12" MIN.


SUPPLY

SPRINKLER

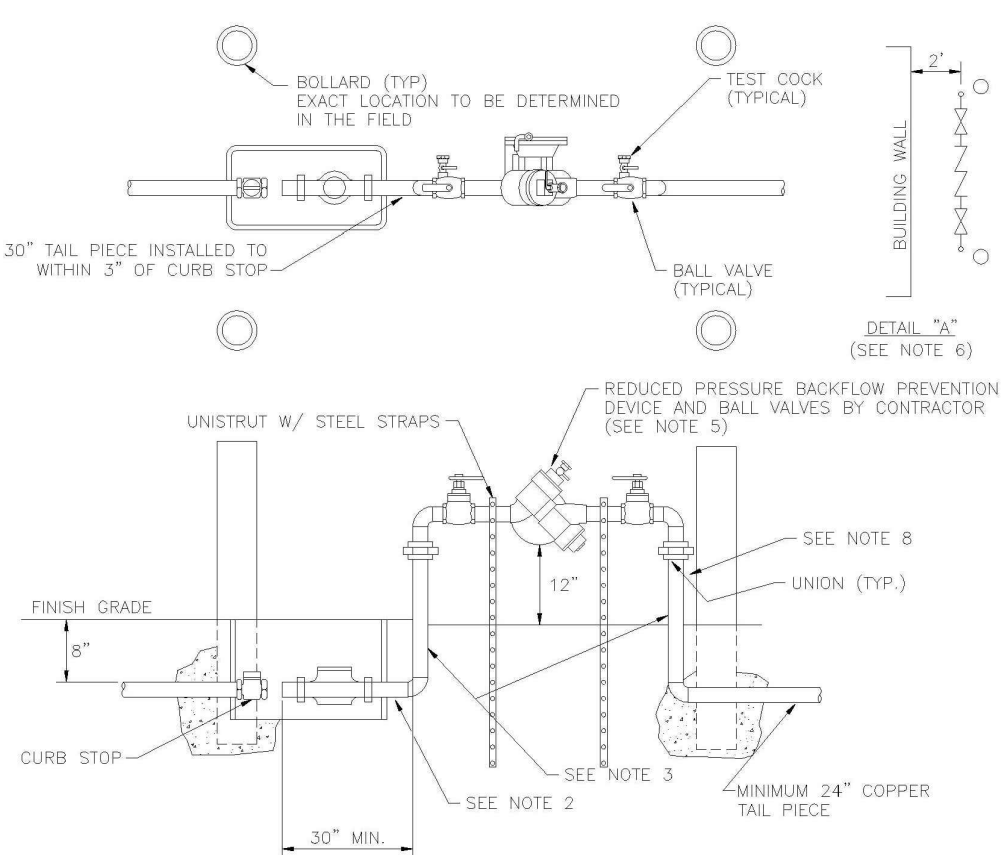
NOTES:

1. THE PRESSURE VACUUM BREAKER (P.V.B.) CANNOT BE INSTALLED WHERE IT WILL BE SUBJECTED TO BACK PRESSURE. IT PROVIDES PROTECTION AGAINST BACK-SIPHONAGE OF BOTH POLLUTANTS AND CONTAMINANTS.
2. EACH P.V.B. SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION TO FACILITATE INSPECTION AND SERVICING.
3. EACH P.V.B. SHALL BE INSTALLED ON THE MAIN LINE TO THE IRRIGATION SYSTEM AND AT LEAST 12 INCHES ABOVE THE HIGHEST SPRINKLER HEAD OR OUTLET. (VALVES MAY BE LOCATED DOWNSTREAM FROM THE DEVICE).
4. ALL ABOVE GROUND PIPING WILL BE TYPE "K" OR "L" COPPER TUBING WITH SWEAT FITTINGS.
5. IF CHEM FEED IS USED IN IRRIGATION LINE, THEN USE RPZ. RPZ MAY BE USED IN LIEU OF PRESSURE VACUUM BREAKER.

PRESSURE – TYPE VACUUM BREAKER (P.V.B.)
(IRRIGATION SYSTEM)

DESIGN	 SOUTH MARTIN REGIONAL UTILITY (SMRU)	DATE APPROVED MARCH 2021
DRAWN MW		DRAWING NUMBER
OK MES		WS 08

CONSTRUCTION STANDARDS AND DETAILS



BOLLARD (TYP.) EXACT LOCATION TO BE DETERMINED IN THE FIELD

TEST COCK (TYPICAL)

30" TAIL PIECE INSTALLED TO WITHIN 2" OF CURB STOP

DETAIL "A" (SEE NOTE 6)

REDUCED PRESSURE BACKFLOW PREVENTION DEVICE AND BALL VALVES BY CONTRACTOR (SEE NOTE 5)

UNISTRUT W/ STEEL STRAPS

FINISH GRADE

8"

CURB STOP

12"

SEE NOTE 2

SEE NOTE 3

SEE NOTE 8

UNION (TYP.)


MINIMUM 24" COPPER TAIL PIECE

30" MIN.

NOTES: (PLEASE REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

1. TYPE "K" COPPER TUBING (SOFT DRAWN) OR POLYETHYLENE TUBING SDR 9 COPPER TUBE SIZE.
2. IF THIS DISTANCE IS LESS THAN 6 FEET ONLY COPPER TUBING SHALL BE PERMITTED.
3. BOTH RISERS SHALL BE TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS SOLDER FITTINGS AND ADAPTERS. ONLY LEAD FREE SOLDER AND FLUX SHALL BE PERMITTED.
4. 1 1/2" AND 2" METER STOPS SHALL BE EQUIPPED WITH LOCKING CAPS AND METER FLANGES.
5. APPROVED BACKFLOW PREVENTION DEVICES WITH SILICONE RUBBER SEAL RINGS OR DISKS:
A.) WATTS MODEL LF919 3/4" TO 2"
B.) AMES MODEL LF4000B 3/4" TO 2"
C.) WILKINS 975 XL2 3/4" TO 2"
6. WHEN THE DEVICE IS INSTALLED PARALLEL TO A BUILDING WALL THERE SHALL BE A MINIMUM OF 2' BETWEEN THE EDGE OF THE DEVICE AND THE BUILDING WALL.
7. BACKFLOW PREVENTION DEVICE SHALL BE EQUIPPED WITH BALL VALVES.
8. BACKFLOW PREVENTION DEVICE SHALL BE SUPPORTED AT BOTH RISERS WITH A MINIMUM OF 2 - 1" STAINLESS STEEL UNISTRUTS. RISERS TO BE SECURED TO UNISTRUT WITH 304 STAINLESS STEEL MOUNTING HARDWARE AND 1/4" NEOPRENE INSULATORS BETWEEN ALL DISSIMILAR METALS.
9. BACKFLOW DEVICES SHALL BE A MINIMUM OF 3' FROM BACK OF CURB.

REDUCE PRESSURE BACKFLOW PREVENTER
SINGLE SERVICE 3/4", 1", 1-1/2" AND 2"

DESIGN	 SOUTH MARTIN REGIONAL UTILITY (SMRU)	DATE APPROVED MARCH 2021
DRAWN MW		DRAWING NUMBER
OK MES		WS 09

CONSTRUCTION STANDARDS AND DETAILS

UTILITY DETAILS

WEST JENSEN PUD, PHASE 1B

PARCEL 12.7

FIFTH THIRD BANK

4110 NW FEDERAL HWY.

JENSEN BEACH, FL 34957

010900-01-002
BOWMAN PROJECT NUMBER

ANDRES MIZRAHI, P.E.
FLORIDA REG. NO. 92421

PLAN STATUS

01/15/24	SITE PLAN REVISION
05/09/24	COUNTY COMMENTS
05/13/24	SITE PLAN REVISION

BD DESIGN	BD DRAWN	WEP CHKD
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JOB No. 010900-01-002

DATE: 9/23/2024

FILE: 12-010900-01-002-UTD.dwg

SHEET

C-5.2

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MARTIN COUNTY, FL

JENSEN BEACH

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CERTIFICATE OF AUTHORIZATION LICENSE NO. 30462

