

# CITY OF COCOA BEACH

# BANANA RIVER BLVD AND ATLANTIC AVE SEWER

BID # CB26-002

BLACK & VEATCH PROJECT 421730

DECEMBER 2025



Black & Veatch Corporation  
 Certificate No. 8132  
 201 South Orange Avenue, Suite 500  
 Orlando, Florida 32801



Olena Lytyn, State of Florida  
 Professional Engineer  
 License No.82696

This item has been digitally signed and sealed by Olena Lytyn on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

BANANA RIVER BLVD AND ATLANTIC AVE SEWER

100% SUBMITTAL

REVISIONS AND RECORD OF ISSUE	
DESIGNED:	JH
DETAILED:	LP
CHECKED:	MM
APPROVED:	OL
DATE:	DECEMBER 2025
PROJECT NO.:	421730

BANANA RIVER BLVD AND ATLANTIC AVE SEWER

GENERAL

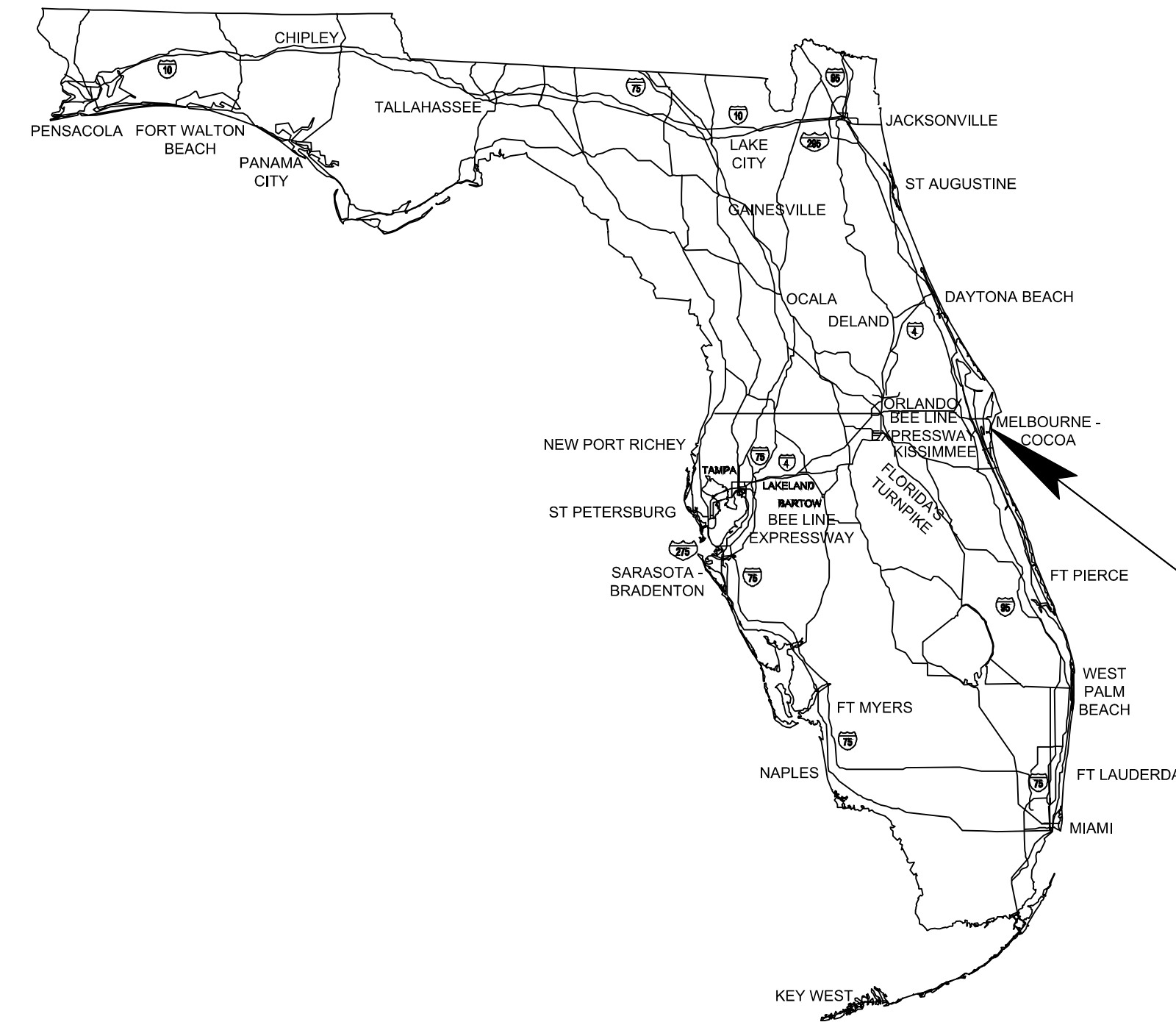
COVER SHEET

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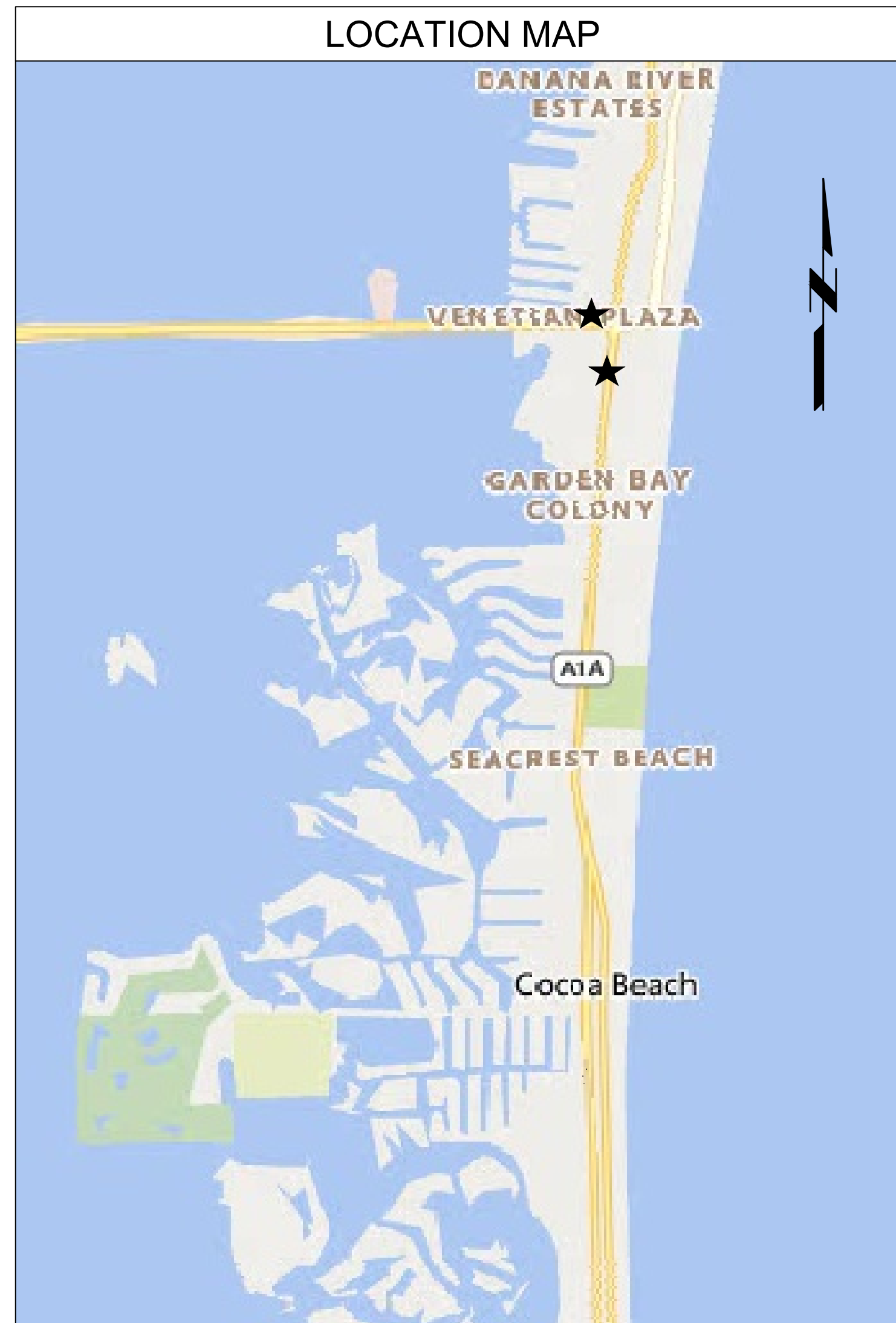
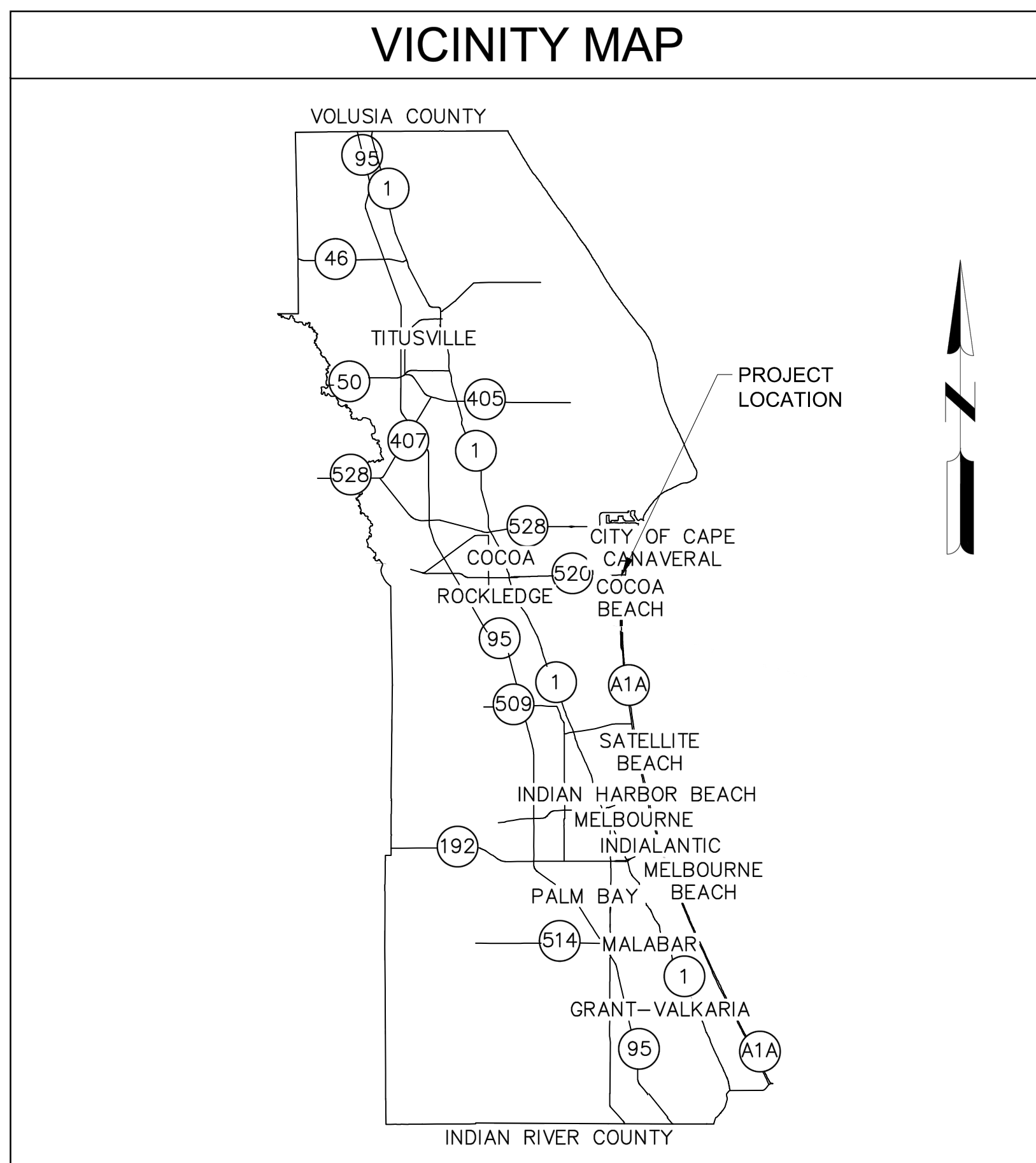
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LOCATION OF PROJECT  
 BREVARD COUNTY



LOCATION MAP

CITY OFFICIALS	
MAYOR / COMMISSIONER:	KEITH CAPIZZI
COMMISSIONER:	JOSHUA JACKSON
COMMISSIONER:	TIM TUMULTY
COMMISSIONER:	SKIP WILLIAMS
COMMISSIONER:	JEREMY HUTCHERSON
CITY MANAGER:	AJ HUTSON

**PROJECT TEAM:**

**OWNER:**  
 CITY OF COCOA BEACH

**SURVEYOR:**  
 L & S DIVERSIFIED  
 489 STATE ROAD 436  
 SUITE 117  
 CASSELBERRY, FL 32707  
 PHONE: (407) 681-3836

**CIVIL ENGINEER:**  
 BLACK & VEATCH CORPORATION  
 201 S. ORANGE AVE. #500  
 ORLANDO, FL 32801  
 407-419-3500

**ENGINEER OF RECORD:**  
 OLENA LYTYYN, P.E.

ISSUED FOR BID

(SCALE BAR IS 4" AT FULL SCALE)

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**GENERAL CONSTRUCTION NOTES**

- ALL CONSTRUCTION CONNECTING TO THE CITY OF COCOA BEACH PUBLIC UTILITIES SYSTEM SHALL CONFORM TO THE CONTRACT DOCUMENTS.
- LOCATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTENCE AND LOCATION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES. CONTRACTOR SHALL CONTACT SUNSHINE ONE CALL PER STATE LAW PRIOR TO EXCAVATION. ALL EXISTING UTILITIES SHALL REMAIN AND ARE TO BE PROTECTED AND SUPPORTED AS NEEDED FOR GRAVITY SEWER INSTALLATION.
- WHEN USING SCALED DATA CONSIDER THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE DURING REPRODUCTION.
- LOCATIONS AND DIMENSIONS OF EXISTING RIGHT-OF-WAYS AND EASEMENTS ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY AND STAKE THE LIMITS OF THE RIGHT-OF-WAYS AND EASEMENTS IN ORDER TO AVOID ENCROACHMENTS BEFORE CONSTRUCTION.
- WHEN OBTAINING DATA AND INFORMATION FROM THE PLANS, NUMERICAL FIGURES SHALL BE USED IN PREFERENCE TO SCALED DIMENSIONS AND LARGER SCALE DRAWINGS IN PREFERENCE TO SMALLER SCALE DRAWINGS.
- PIPE LENGTHS SHOWN ON PLANS ARE APPROXIMATE. ACTUAL LENGTHS ARE TO BE DETERMINED DURING CONSTRUCTION.
- ALL STATIONS AND OFFSETS REFER TO THE BASELINE OF STATIONING.
- MAINTAIN EMERGENCY VEHICLE ACCESS TO ALL BUSINESSES AND RESIDENCES AT ALL TIMES.
- LOCAL RESIDENTIAL ACCESS SHALL BE MAINTAINED AT ALL TIMES. PROVIDE WRITTEN NOTIFICATION TO RESIDENTS SEVEN (7) DAYS PRIOR TO IMPLEMENTING ANY ROADWAY OR DRIVEWAY CLOSURE. A SECOND NOTICE WILL BE GIVEN 24 HOURS IN ADVANCE OF CLOSURE. WRITTEN NOTIFICATIONS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO RESIDENTIAL DISTRIBUTION.
- SUPPORT AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL CONTACT UTILITY OWNERS FOR LOCATION OF ALL EXISTING FACILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY OWNERS AND BE RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORT FOR UTILITY POLES AND ALL OTHER UTILITIES.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN EXCAVATING IN PROXIMITY OF WATER MAINS, WASTEWATER FORCE MAINS, GRAVITY MAINS, AND RECLAIMED WATER MAINS. MAIN LOCATIONS SHOWN ON PLANS ARE NOT EXACT OR GUARANTEED. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING EXISTING UTILITY LOCATIONS.
- COMPLETE ALL CONSTRUCTION WITHIN RIGHT OF WAY LIMITS AND EASEMENT LIMITS.
- PIPE SIZES SHOWN ON PLANS ARE MINIMUM NOMINAL INSIDE DIAMETER.
- MAINS SHALL NOT BE PLACED IN SERVICE UNTIL CLEARANCE IS RECEIVED FROM FDEP.
- PROTECT EXISTING IMPROVEMENTS TO THE MAXIMUM EXTENT POSSIBLE.
- RESTORE ALL EXISTING IMPROVEMENTS AND DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION. PAVEMENT TO BE RESTORED IN ACCORDANCE WITH THE PAVEMENT RESTORATION DETAILS SHOWN ON THE CONSTRUCTION DETAIL SHEETS. CONTRACTOR TO PROVIDE OWN SURVEY AS NEEDED TO MATCH EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING ALL REQUIREMENTS OF REGULATORY AGENCY PERMITS FOR CONSTRUCTION ACTIVITIES AND RELATED ACTIVITIES.
- BENCHMARK LOCATIONS AND ELEVATION ARE SHOWN IN THE PLANS AS REPRESENTED BY SURVEYOR AT THE TIME OF SURVEY. CONTRACTOR SHALL INSTALL HIS OWN TEMPORARY BENCHMARKS AS DEEMED NECESSARY. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING RECLAIM WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) STORM WATER AND SHALL EVALUATE POTENTIAL CONFLICTS IN A WRITTEN REPORT. ANY CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY AND DETAILED IN THE REPORT. CONTRACTOR SHALL ASSUME ALL EXISTING UTILITIES SHALL REMAIN AND WILL BE SUPPORTED BY THE CONTRACTOR DURING CONSTRUCTION.
- NO VALVE BOXES, METERS, PORTIONS OF MANHOLES, OR OTHER APPURTENANCES OF ANY KIND RELATING TO ANY UNDERGROUND UTILITIES SHALL BE LOCATED IN ANY PORTION OF A CURB-AND-GUTTER OR SIDEWALK SECTION. CONTRACTOR SHALL ADVISE ENGINEER IMMEDIATELY UPON DISCOVERY OF A POTENTIAL CONFLICT.
- WHERE REQUIRED, AT NO ADDITIONAL COST TO CITY OF COCOA BEACH, THE CONTRACTOR SHALL USE TEMPORARY SHEETING OR TRENCH BOXES TO MINIMIZE THE SIZE OF EXCAVATIONS AND PROTECT EXISTING ROADWAYS, UTILITIES, STORM WATER SYSTEMS AND OTHER FACILITIES. CONTRACTOR TO COMPLY WITH OSHA TRENCH SAFETY REQUIREMENTS AT ALL TIMES. CITY PERSONNEL ARE AUTHORIZED TO SHUT DOWN ANY UNSAFE OPERATIONS IF WITNESSED, WITHOUT REPERCUSSION OR LIABILITY FOR DELAY, OR COST IMPACT.
- THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL COMPACTION SHALL BE 98% OF AASHTO T-180 WITHIN 2FT OF ROADWAY OR UNDER ROADS OR DRIVEWAYS. 95% IS ACCEPTABLE ELSEWHERE.
- CONTRACTOR SHALL MAINTAIN DRAINAGE IN DITCHES AND SWALES AT ALL TIMES. THIS INCLUDES ALL TURBIDITY BARRIERS, ADDITIONAL FILL MATERIAL, BYPASS PUMPING AND SWALE RESTORATION INCLUDING SODDING. ALL DITCH WORK SHALL MEET THE FLORIDA EROSION SEDIMENT CONTROL MANUAL, LATEST VERSION.
- ALL EXISTING TRAFFIC SIGNS WITHIN THE PROPOSED CONSTRUCTION LIMITS ARE TO BE PROTECTED. CAUTION SHOULD BE EXERCISED WHILE RELOCATING EXISTING SIGNS WHERE DIRECTED. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY CITY, THE DAMAGED SIGNS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- ALL EXISTING GRAVITY SEWER MAINS SHALL REMAIN IN SERVICE BY WAY OF TEMPORARY PIPING AND CONNECTIONS AS NEEDED TO ACCOMMODATE REPLACEMENT WORK.
- CONTRACTOR SHALL PROVIDE SILT FENCE IN ALL WORK ZONES TO PREVENT SILT AND DEBRIS FROM LEAVING THE RIGHT-OF-WAY OR ENTERING ACTIVE STORM WATER DITCHES AND SWALES.
- CONTRACTOR SHALL MAINTAIN STORM WATER FLOW, INCLUDING DRAINAGE DITCHES AND SWALES TO ALLOW FOR PROPER EXISTING DRAINAGE PATTERNS TO BE MAINTAINED AND TO ALLOW FOR UTILITY RELOCATIONS TO OCCUR IN DRY CONDITIONS PER PROPOSED SPECIFICATIONS.
- LDC SECTION 7-1-H SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH OR CANAL. ALL STORM FACILITIES THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT AND SEDIMENT LADEN WATER CANNOT ENTER THE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- ALL SEDIMENT PILES FROM EXCAVATIONS ARE TO BE PROTECTED USING EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES TO INCLUDE SUCH MEASURE E.G. SILT FENCE FOR ANY RUN-OFF INTO/ONTO THE STREET, CURB OR SIDEWALKS TO PROTECT STORM DRAINS FROM ANY TRANSPORT OF MATERIALS INTO THE CITY WATERWAYS.
- EXCAVATED MATERIALS SHOULD BE PLACED SO AS NOT TO IMPEDE PEDESTRIAN OR VEHICULAR TRAFFIC AT ANY TIME. WHEN UNAVOIDABLE ALTERNATE ADA PEDESTRIAN ROUTES ARE TO HAVE APPROPRIATE SIGNAGE.
- OPEN PITS ARE TO BE ALWAYS PROTECTED FROM PUBLIC ACCESS.
- WEEKEND WORK INVOLVING ANY EXCAVATIONS IS NOT PERMITTED WITHIN THE CITY OF COCOA BEACH CITY LIMITS.
- UTILITY LOCATES REQUIRED 48 HOURS PRIOR TO COMMENCEMENT, CALL (SUNSHINE) 811 LOCATE SERVICE OR 1-800-432-4770.
- ANY DAMAGES WILL BE ASSIGNED TO THE CONTRACTOR WHO WILL BE RESPONSIBLE.

**GRAVITY SEWER NOTES**

**TESTING:**

- THE CITY'S PUBLIC UTILITIES DEPARTMENT SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE (NOT INCLUDING HOLIDAYS OR WEEKENDS) PRIOR TO BEGINNING ANY SANITARY SEWER CONSTRUCTION.
- ALL GRAVITY SANITARY SEWER LINES SHALL BE GREEN PVC SDR 26, EXCEPT WHEN PIPE IS INSTALLED UNDER FDOT ROAD. ALL GRAVITY SANITARY SEWERS INSTALLED UNDER FDOT ROAD LINES SHALL BE GREEN PVC DR 18.
- MINIMUM GRAVITY SANITARY SEWER SLOPES ARE AS FOLLOWS:  
 8" PIPE 0.40%  
 10" PIPE 0.30%  
 12" PIPE 0.22%
- GRAVITY SANITARY SEWER LINES SHALL BE INSTALLED WHENEVER POSSIBLE UNDER PAVED AREAS WITHIN PUBLIC RIGHTS-OF-WAY. UTILITY EASEMENTS SHALL BE PROVIDED WHENEVER PUBLICLY OWNED SEWER LINES ARE CONSTRUCTED OUTSIDE OF A PUBLIC RIGHT-OF-WAY.
- GRAVITY SANITARY SEWER LINE CONSTRUCTION SHALL BE ACCOMPLISHED BY THE USE OF LASER INSTRUMENT UNLESS ANOTHER METHOD IS PREVIOUSLY APPROVED BY THE CITY.
- THE CONTRACTOR SHALL AT ALL TIMES, DURING PIPE LAYING OPERATIONS, DEWATER THE GROUND SUFFICIENTLY TO KEEP THE GROUNDWATER ELEVATION A MINIMUM OF 6" BELOW THE PIPE BEING LAID WITHIN THE AREA OF THE TRENCH.
- ALL PIPES SHALL BE LAID ON A FIRM FOUNDATION. SOFT OR SPONGY BEDDING FOR PIPES IS NOT ACCEPTABLE. ANY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH A DRY, COMPACTED, GRANULAR MATERIAL SATISFACTORY TO THE CITY.
- ON ALL EXCAVATION AND BACKFILLING THE CONTRACTOR SHALL PROVIDE ADEQUATE SHEETING AND BRACING IN ORDER TO PROVIDE FOR THE SAFETY OF WORKMEN, AS WELL AS REPRESENTATIVES OF THE CITY, THE DESIGN ENGINEER, AND THE DEVELOPER.
- ALL TRENCHES SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL AND COMPACTED TO THE SPECIFIC MINIMUM COMPACTION (95% IN UNPAVED AREA AND 98% IN PAVED AREAS) OF THE OPTIMUM DENSITY OF THAT MATERIAL BASED ON THE AASHTO T-180 MODIFIED PROCTOR TEST.
- THE CONTRACTOR SHALL EMPLOY AN INDEPENDENT TESTING LABORATORY AT HIS OWN EXPENSE TO INSURE THAT COMPACTION OF ALL FILL MATERIAL IS COMPLETED PROPERLY. TESTS SHALL BE DONE ONE FOOT ABOVE THE PIPE AND THEN AT ONE FOOT VERTICAL INTERVALS UNTIL FINAL GRADE IS REACHED. TESTING SHALL BE COMPLETED AND TEST DOCUMENTS SUBMITTED TO THE CITY AT A MINIMUM FREQUENCY OF ONE SET OF TESTS BETWEEN EACH MANHOLE AND ONE ADDITIONAL SET OF TESTS AT EVERY MANHOLE. IDENTIFICATION OF TEST LOCATIONS SHALL BE CLEARLY INDICATED ON TEST REPORTS. TEST RESULTS SHALL BE FORWARDED PROMPTLY TO THE CITY'S DESIGNATED SITE INSPECTOR.
- THE CONTRACTOR SHALL INSTALL A METALIZED FOIL LOCATOR TAPE, OR SIMILAR DEVICE AS MAY BE APPROVED BY THE CITY FOR THE FULL LENGTH OF ALL PVC SEWAGE FORCE MAINS. THIS PIPE LOCATOR AID SHALL BE INSTALLED BETWEEN 15" AND 24" BELOW FINISHED GRADE OR AS DIRECTED BY THE MANUFACTURER. TAPE SHALL BE COLOR CODED GREEN FOR SANITARY SEWER AND FORCE MAIN.
- ALL TESTING REQUIRED BY THE CITY SHALL BE PAID FOR BY THE CONTRACTOR.
- ALL LOCAL COLLECTION SANITARY SEWER MANHOLES SHALL BE PRECAST WITH A MINIMUM INSIDE DIAMETER OF 4 FEET.
- STANDARD MANHOLES SHALL BE LOCATED AT INTERVALS NOT EXCEEDING 350 FEET.
- ALL SEWER FITTINGS TO BE "HARCO" OR CITY APPROVED EQUAL.
- MANHOLE RIMS SHALL MATCH FLUSH WITH THE FINISH GRADE ELEVATION IN PAVED AREAS AND A MINIMUM OF 0.2 FEET AND MAXIMUM OF 0.5 FEET ABOVE GRADE GENERALLY IN UNPAVED AREAS.
- THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER MANHOLES IN SUCH A WAY THAT SEWER LINES DO NOT INTERSECT SEALED JOINTS BETWEEN SECTIONS OF THE MANHOLE.
- RUBBER BOOTS AND STAINLESS STEEL BANDS SHALL BE UTILIZED IN THE CONNECTION OF THE SEWER MAIN TO THE MANHOLES (SEE STANDARD MANHOLE AND BOOT DETAIL).
- INDIVIDUAL SANITARY SERVICE CONNECTORS ON NEW CONSTRUCTION SHALL NOT BE CONNECTED DIRECTLY INTO MANHOLES, AND MUST BE CONNECTED TO SEWER MAIN LINES BY USE OF WYE CONNECTIONS, UNLESS OTHERWISE BE APPROVED BY THE CITY.
- ALL SANITARY SEWER MANHOLE COVERS SHALL HAVE THE WORDS "COCOA BEACH, FLORIDA SANITARY SEWER" CAST INTO THEM.
- SANITARY SEWER MANHOLES WHICH HAVE SEWER FORCE MAINS DISCHARGING DIRECTLY INTO THEM SHALL BE FIBERGLASS OR POLY-ETHYLENE LINED. RETRO-FITTING OF MANHOLES WITH LINERS SHALL BE REQUIRED WHEN NEW CONNECTIONS SUCH AS THIS ARE MADE. FIBERGLASS SHALL BE A MINIMUM 1/2" THICKNESS UNLESS APPROVED OTHERWISE BY THE CITY. OTHER TYPES OF LINING METHODS AND MATERIALS MAY BE CONSIDERED ON A CASE BY CASE BASIS. UNDER SPECIAL CIRCUMSTANCES WHERE HYDROGEN SULFIDE IS A MAJOR CONCERN MANHOLES UPSTREAM AND/OR DOWNSTREAM OF THE FORCE MAIN TIE-IN OR WET WELL MAY ALSO BE REQUIRED TO HAVE LININGS INSTALLED.
- THE CITY OF COCOA BEACH RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO PERFORM VACUUM TESTING OF ALL SANITARY MANHOLES, AIR TEST SEWER MAINS, AND REQUIRES THAT ALL SANITARY SEWER MAIN LINES BE TELEVIEWED PRIOR TO FINAL ACCEPTANCE. LATERALS SHALL BE TELEVIEWED UPON DEMAND BY THE CITY PRIOR TO FINAL ACCEPTANCE WHEN IT IS SUSPECTED THAT A PROBLEM EXISTS.
- ALL SEWER MAINS, PRIOR TO ACCEPTANCE BY THE CITY AND PRIOR TO ANY FINAL PAVING OPERATIONS, SHALL BE TELEVIEWED USING A "PAN AND TILT" CAMERA BY A CITY APPROVED CONTRACTOR. THE VIDEO SHALL BE NON-STOP WITH AUDIO DESCRIBING WHAT IS BEING REVIEWED. WRITTEN VIDEO LOGS DESCRIBING THE CONDITION OF THE LINES SHALL ACCOMPANY THE TAPE SUBMISSION TO THE CITY PRIOR TO COMMENCING ANY INSTALLATION OF ASPHALT OR CONCRETE PAVEMENT. RE-TAPING MAY BE REQUIRED BY THE CITY IF ADDITIONAL CLEARING OR CORRECTIVE ACTIONS ARE NECESSARY.
- CONTECH A-2000 PVC PIPE SHALL NOT BE ALLOWED FOR USE.
- EZ-WRAP PLASTIC, AS MANUFACTURED BY PRESS SEAL GASKET CORPORATION, SHALL BE USED ON THE OUTSIDE OF ALL MANHOLE AND WETWELL JOINTS. APPLY ONE LAYER OF 9" WRAP CENTERED ON EACH JOINT. A CITY INSPECTOR SHALL PERSONALLY INSPECT ALL JOINT SEALS PRIOR TO BACKFILLING OPERATIONS.
- WITH RESPECT TO TIE-IN CONNECTIONS AND CORING OPERATIONS, THE CITY RESERVES THE RIGHT TO REQUIRE CONNECTIONS TO BE PERFORMED DURING PERIODS OF LOW FLOW (MIDNIGHT TO 6:00 A.M.) IN ORDER TO MINIMIZE SERVICE DISRUPTION TO EXISTING CUSTOMERS.
- ALL WORK PERFORMED UPON SANITARY SEWER FACILITIES OWNED OR PROPOSED TO BE OWNED BY THE CITY SHALL BE CONSTRUCTED BY AN UNDERGROUND UTILITY CONTRACTOR, OR LICENSED GENERAL CONTRACTOR, WHO IS LICENSED IN THE STATE OF FLORIDA AND REGISTERED WITH THE CITY.
- UPON CONSTRUCTION COMPLETION AND ACCEPTANCE OF THE SYSTEM, IT SHALL BE THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THAT THE SYSTEM IS PROPERLY CERTIFIED AND ACCEPTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AS-BUILTS ARE PROVIDED TO THE CITY PRIOR TO ANY USE OF THE SYSTEM.

**SYMBOL AND ABBREVIATION LEGEND**

- CONCRETE LIGHT POLE
- CONCRETE POWER POLE
- GUY WIRE
- ELECTRICAL VAULT
- WOODEN POWER POLE
- IRRIGATION VALVE
- BOLLARD
- CLEANOUT
- MAILBOX
- MONITORING WELL
- SINGLE STAND SIGN
- RECLAIMED WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- CATCH BASIN
- STORM DRAINAGE MANHOLE
- FOUND BRASS OR ALUMINUM DISK
- FOUND NAIL & DISK
- SET TRAVERSE POINT OR BENCHMARK
- TELECOMMUNICATION MANHOLE
- TEST HOLES
- TREE LIVE OAK
- TREE PALM
- TREE UNKNOWN
- BACKFLOW PREVENTER
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- ASPH ASPHALT
- CLF CHAIN LINK FENCE
- CONC CONCRETE
- CMP CORRUGATED METAL PIPE
- CPP CORRUGATED PLASTIC PIPE
- DIP DUCTILE IRON PIPE
- EC EDGE OF CONCRETE
- ELEV ELEVATION
- ESMT EASEMENT
- FND FOUND
- INV INVERT
- LB LICENSED BUSINESS
- LS LICENSED SURVEYOR
- N NORTH/NORTHING
- N/D NAIL AND DISK
- ORB OFFICIAL RECORDS BOOK
- PB PLAT BOOK
- PG(S) PAGE(S)
- PL PROPERTY LINE
- PSM PROFESSIONAL SURVEYOR AND MAPPER
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- VCP VITRIFIED CLAY PIPE
- CONTOUR
- SPOT ELEVATION
- BURIED CABLE TV
- BURIED ELECTRICAL
- BURIED FIBER OPTIC
- BURIED FORCE MAIN
- BURIED GAS
- BURIED RECLAIMED WATER
- BURIED SANITARY SEWER
- BURIED TELECOMMUNICATION
- BURIED UNKNOWN
- BURIED WATER
- ORIGINAL LOT LINE
- FENCE LINE
- EASEMENT
- OVERHEAD ELECTRICAL LINE
- DRAINAGE PIPE
- BUILDING LINE
- EDGE OF PAVEMENT
- CONCRETE
- EXISTING GRAVITY SEWER
- PROPOSED GRAVITY SEWER
- GEOTECHNICAL BORING
- PROPOSED SANITARY SEWER MANHOLE



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 Certificate No. 8132  
 201 South Orange Avenue, Suite 500  
 Orlando, Florida 32801



Olena Lytvyn, State of Florida  
 Professional Engineer  
 License No.82696

This item has been digitally signed and sealed by Olena Lytvyn on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

**100% SUBMITTAL**

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**GENERAL**

**GENERAL NOTES AND LEGEND**

**G-01**

2 OF 18

**ISSUED FOR BID**

(SCALE BAR IS 4" AT FULL SCALE)

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**CONTRACTOR REQUIREMENTS FOR SITE CLEARING, GRADING, AND EROSION CONTROL DESIGN AND CONSTRUCTION NOTES**

THE FOLLOWING MEASURES REPRESENT MINIMUM STANDARDS TO BE ADHERED TO BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION OF A PROJECT. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES TO BE EMPLOYED WHEN WARRANTED BY EXTREME CONDITIONS AND/OR THE FAILURE OF THE CONTRACTOR TO EMPLOY THE APPROPRIATE EROSION CONTROL BEST MANAGEMENT PRACTICES. FAILURE TO COMPLY WITH THESE PROVISIONS SHALL RESULT IN THE ISSUANCE OF A "STOP WORK ORDER".

1. NO DISTURBANCE OF PROPOSED CONSERVATION EASEMENTS, NATURAL BUFFERS, OR WATER BODIES IS PERMITTED. THE CONTRACTOR SHALL LOCATE THESE AREAS ON SITE AND BARRICADE THEM TO AVOID ANY UNAUTHORIZED CLEARING, BARRICADES AND OTHER PROTECTIVE FENCING ARE TO BE LOCATED AT THE DRIP LINE OF EXISTING NATIVE TREES OR AT THE EDGE OF THE NATIVE UNDERSTORY HABITAT, WHICHEVER IS NEAREST TO THE CONSTRUCTION ACTIVITY.
2. SPECIMEN AND HISTORIC TREES, CONSERVATION EASEMENTS, NATURAL VEGETATION BUFFERS, AND SIMILAR AREAS MUST BE PROTECTED BY BARRICADES OR FENCING PRIOR TO CLEARING. BARRICADES ARE TO BE SET AT THE DRIP LINE OF THE TREES AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. BARBED WIRE IS NOT PERMITTED AS A PROTECTIVE BARRIER.
3. WHERE A CHANGE OF GRADE OCCURS AT THE DRIP LINE OF A SPECIMEN TREE, SILT FENCES WILL BE REQUIRED DURING CONSTRUCTION AND RETAINING WALLS MUST BE INSTALLED PRIOR TO FINAL ACCEPTANCE BY THE CITY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL PROTECTIVE VEGETATION BARRICADES AND EROSION CONTROL STRUCTURES AND MEASURES IN PLACE PRIOR TO THE COMMENCEMENT OF ANY EARTHWORK, INCLUDING PRELIMINARY GRUBBING. THESE MEASURES INCLUDES, BUT ARE NOT LIMITED TO, TEMPORARY CONSTRUCTION FENCES, SILT FENCES, AND FLOATING TURBIDITY BARRIERS. FURTHER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL EROSION CONTROL DEVICES THROUGHOUT THE DURATION OF THE ENTIRE PROJECT. MAINTENANCE SHALL INCLUDE PERIODIC INSPECTION AND REMOVAL OF DEBRIS ABUTTING EROSION CONTROL DEVICES.
5. PRIOR TO THE INSTALLATION OF ANY FILL MATERIALS ON SUBJECT SITE, SILT FENCES SHALL BE INSTALLED (1) ALONG SUBJECT SITE BOUNDARY AND PROPERTY LINES, (2) AT THE EDGE OF CONSERVATION EASEMENTS AND WETLANDS, (3) ADJACENT TO NATURAL LANDSCAPE BUFFERS, (4) AROUND THE PERIMETER OF EXISTING STORM WATER TREATMENT FACILITIES, AND (5) AT ANY ADDITIONAL AREAS THAT THE CITY DEEMS NECESSARY TO BE PROTECTED FROM POTENTIAL EROSION IMPACTS DURING CONSTRUCTION. THESE CONDITIONS SHALL APPLY IN ALL INSTANCES WHERE FILL MATERIAL IS BEING INSTALLED WITHIN 25 FEET OF ANY OF THE AFOREMENTIONED LOCATIONS, WHILE THESE ITEMS REPRESENT THE MINIMUM REQUIREMENTS, THE CITY RESERVES THE RIGHT TO IMPOSE ADDITIONAL PROTECTIVE MEASURES, AS DETERMINED DURING ACTUAL SITE VISITS CONDUCTED AS PART OF THE STANDARD REVIEW OF THE SITE-SPECIFIC CLEARING PERMIT APPLICATION AND THROUGHOUT PROJECT CONSTRUCTION.
6. WHERE FILL MATERIAL IS INTENDED TO BE INSTALLED ADJACENT TO EXISTING VEGETATION WHICH IS INTENDED TO REMAIN NATURAL, THE CONTRACTOR MAY INSTALL SILT FENCING AS A TREE PROTECTION MEASURE. IN LIEU OF INSTALLING EITHER WOOD BRACING OR ORANGE MESH FENCING. THIS PRACTICE IS ENCOURAGED BY THE CITY. IF THE SILT FENCE FAILS TO PROVIDE ADEQUATE PROTECTION FROM IMPACT DUE TO CONSTRUCTION, THEN ADDITIONAL CONSTRUCTION FENCING OR WOOD BRACING SHALL BE REQUIRED.
7. AT A MINIMUM, THE CONTRACTOR SHALL SOD ALL DISTURBED AREAS. SUFFICIENT GRASS COVERAGE IS TO BE ESTABLISHED WITHIN THIRTY DAYS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THROUGH SCHEDULING, TO MINIMIZE THE DISTURBANCE OF SITE AREAS THAT HAVE BEEN BROUGHT TO THEIR PROPOSED FINAL GRADE WITHIN TWENTY DAYS OF BRINGING A SUBJECT AREA TO ITS FINAL GRADE, THE CONTRACTOR SHALL INSTALL SOD, AS REQUIRED.
9. FOR INDIVIDUAL CONSTRUCTION PROJECTS INVOLVING MULTIPLES PHASES, UPON COMPLETION OF EACH PHASE OF THE PROJECT, SODDING IS TO BE PERFORMED PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION.
10. ONCE AN AREA IS SODDED, IT MUST BE MAINTAINED BY THE CONTRACTOR TO ALLOW THE GRASS TO BECOME ESTABLISHED.
11. ANY BURNING OF CLEARED MATERIALS MUST BE INSPECTED AND PERMITTED ON A DAILY BASIS. CONTACT THE FIRE MARSHALL AT 756-5401 PRIOR TO EACH DAY OF DESIRED BURNING.
12. ABSOLUTELY NO BURYING OF CLEARED MATERIALS IS PERMITTED.
13. THE REMOVAL OF ALL VEGETATION AND TOPSOIL ON THE FUTURE ROADWAY, PARKING AND BUILDING LOT AREAS IS REQUIRED TO BE COMPLETED PRIOR TO THE PLACEMENT OF FILL ON THOSE AREAS, THE TOPSOIL MAY BE TEMPORARILY STOCKPILED AND USED AS TOPSOIL OVER PROPOSED GREEN AREAS SUCH AS PLANT BEDS, SODDED AREAS, AND WHERE TREES ARE TO BE INSTALLED OR RELOCATED.
14. A SIGNED, DATED, AND SEALED LETTER FROM A SOILS ENGINEER CERTIFYING THAT THE AREAS TO BE FILLED HAVE BEEN STRIPPED OF ORGANIC MATERIALS, MUST BE SUBMITTED TO THE CITY PRIOR TO FILLING.
15. FILL MATERIAL IS TO BE PLACED IN ONE FOOT LIFTS AND COMPACTED TO THE APPROPRIATE DENSITY (98% FOR PAVED AREAS AND 95% FOR BUILDING PADS AND ALL OTHER AREAS AS PER AASHOT T-180).
16. IF ANY MUCK MATERIAL IS DISCOVERED, IT SHALL BE REQUIRED TO BE REMOVED AND REPLACED WITH A SUITABLE MATERIAL THAT IS PROPERLY BACKFILLED, COMPACTED AND TESTED USING AASHTO T-180 MODIFIED PROCTOR METHOD.
17. STOCKPILING IS NOT GENERALLY PERMITTED BY THE CITY. WHEN ALLOWED, STOCKPILES SHALL NOT EXCEED SIX FEET IN HEIGHT MEASURED FROM THE ORIGINAL GRADE. AT A MINIMUM, STOCK PILES THAT WILL REMAIN IN PLACE IN EXCESS OF TWENTY DAYS SHOULD BE RE-SODDED IMMEDIATELY UPON PLACEMENT OF THE FINAL LIFT.
18. SOILS ARE TO BE STABILIZED BY WATER OR OTHER MEANS DURING CONSTRUCTION. THIS IS INTENDED TO REDUCE SOIL EROSION AND THE IMPACT TO NEIGHBORING COMMUNITIES. ADEQUATE WATERING METHODS SHOULD BE EMPLOYED TO ALLOW DAILY COVERAGE OF THE ENTIRE LIMITS OF ALL AREAS THAT DO NOT HAVE AN ESTABLISHED VEGETATIVE COVER. METHODS TO BE EMPLOYED INCLUDE, BUT ARE NOT LIMITED TO WATER TRUCKS, PERMANENT IRRIGATION SYSTEMS, TEMPORARY SPRINKLER SYSTEMS OPERATED BY PUMPING UNITS CONNECTED TO WET RETENTION PONDS, WATER CANNONS, TEMPORARY IRRIGATION SYSTEMS MOUNTED ATOP STOCKPILE AREAS AND OTHER METHODS AS DEEMED NECESSARY BY THE CITY.
19. ALL FILL MATERIALS LOCATED BENEATH STRUCTURES AND PAVEMENT SHALL CONSIST OF CLEAN GRANULAR SAND FREE FROM ORGANICS AND SIMILAR MATERIAL THAT COULD DECOMPOSE.
20. ALL FILL TO BE PLACED IN LANDSCAPED AREAS SHALL HAVE A Ph RANGE BETWEEN 5.5 AND 7.5, BE ORGANIC IN NATURE, FREE OF ROCKS AND DEBRIS, OR MATCH NATIVE EXISTING SOILS.

**RECORD NOTES**

NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO THE FINAL INSPECTION BY THE CITY, A WRITTEN CERTIFICATION SIGNED, SEALED AND DATED, SHALL BE PROVIDED PER CONTRACT DOCUMENTS THAT ALL RECORD DRAWING PLANS, ACCURATELY AND COMPLETELY REFLECT ANY AND ALL DEVIATIONS FROM OUR CHANGES MADE TO THE CONTRACT DOCUMENTS. THE SUBMITTAL SHALL INCLUDE ONE (1) COMPLETE SET OF SIGNED, SEALED, AND DATED RECORD DRAWING PLANS. IN ADDITION TO THE PLANS ONE (1) ELECTRONIC COPY IN TIFF FORMAT (NOT PDF) AND ONE (1) ELECTRONIC COPY IN AUTOCAD 2013 (OR EARLIER VERSION) OF THE RECORD DRAWINGS TO THE CITY PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF ACCEPTANCE FOR THE IMPROVEMENTS SHALL BE PROVIDED PER CONTRACT DOCUMENTS. RECORDING INFORMATION ON THE APPROVED PLANS AS CONSTRUCTION PROGRESSES SHALL BE SUBMITTED AS STATED ON THE CONTRACT DOCUMENTS. RECORD DRAWINGS SUBMITTED TO THE CITY AS PART OF THE PROJECT ACCEPTANCE SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

1. DRAWINGS SHALL BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.
2. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UNDERGROUND AND ABOVE GROUND WATER, RECLAIMED WATER STORM DRAINAGE AND WASTEWATER PIPING AND RELATED APPURTENANCES. ALL CHANGES SHALL BE BASED HORIZONTAL CONTROL DATUM NAD1983 STATE PLANE FLORIDA EAST (US FEET) AND VERTICAL CONTROL DATUM NAVD88. DRAWINGS SHALL SHOW ACTUAL INSTALLED PIPE SIZE, TYPE OF MATERIAL AND PRESSURE CLASS.
3. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL.
4. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON THE ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE SHOWN.
5. LOCATION OF ALL MANHOLES, HYDRANTS, VALVES, AND VALVE BOXES SHALL BE SHOWN. ALL VALVES SHALL BE REFERENCED FROM AT LEAST TWO AND PREFERABLY THREE PERMANENT POINTS.
6. DIMENSIONS BETWEEN ALL MANHOLES SHALL BE FIELD VERIFIED AND SHOWN. THE INVERTS, GRADE ELEVATIONS AND SLOPE OF ALL MANHOLES SHALL BE SHOWN. SEWER LATERALS SHALL BE LOCATED ALONG THE MAINS MEASURED FROM THE NEAREST DOWNSTREAM MANHOLE.
7. THE DEPTH FROM FINISH GRADE OF POTABLE WATER, RECLAIMED WATER, AND SEWER FORCE MAINS SHALL BE INDICATED AT ALL VALVE LOCATIONS.
8. THE INFORMATION LISTED IN ITEM 2, 5, 6, AND 7, SHALL BE COMPLETED BY A CERTIFIED PROFESSIONAL LAND SURVEYOR. SIGNED AND SEALED CERTIFICATION PREPARED BY THE SURVEYOR SHALL BE SUBMITTED TO THE CITY.
9. THE CERTIFIED RECORD DRAWINGS SHALL BE PRESENTED IN DIGITAL FORMAT. THE FORMAT SHALL BE A HIGH RESOLUTION TIFF IMAGE AS WELL AS AUTOCAD, AT THE SAME SIZE AND SCALE AS THE DEVELOPMENT PLAN, PLUS ANY ADDITIONAL PLAN SHEETS NECESSARY TO COMPLETE THE PROJECT CONSTRUCTION.
10. EACH SHEET OF THE PLANS SHALL BE SIGNED, SEALED, AND DATED BY THE CONTRACT'S ENGINEER AS BEING RECORD DRAWINGS. CONSTRUCTION PLANS SIMPLY STAMPED RECORD DRAWINGS NOT CERTIFYING THE ACCURACY OF THE LOCATION, ELEVATION AND CONFIRMATION OF SUCH UTILITIES WILL NOT BE ACCEPTED AND SHALL BE RETURNED TO THE CONTRACT'S ENGINEER. THE "CERTIFICATE OF ACCEPTANCE" WILL NOT BE ISSUED UNTIL CORRECT RECORD DRAWINGS HAVE BEEN SUBMITTED.
11. COPIES OF ALL TESTING RESULTS AND SYSTEM CLEARANCE DOCUMENTATION FROM REGULATORY AGENCIES SHALL ALSO BE SUBMITTED TO THE CITY PRIOR TO THE ISSUANCE OF THE "CERTIFICATION OF ACCEPTANCE".
12. THE FOLLOWING STATEMENT SHALL APPEAR ON EACH SHEET OF RECORD:

RECORD DRAWINGS CONTAIN INFORMATION FURNISHED BY OTHERS. THE INFORMATION PROVIDED HAS BEEN REVIEWED BY ME OR BY INDIVIDUALS UNDER MY DIRECT SUPERVISION AND FOUND TO BE CORRECT AND ACCURATE, CONSISTENT WITH THE PERMIT AND THE APPROVED DRAWINGS AND SPECIFICATIONS. ANY ADJUSTMENTS AND MINOR DEVIATIONS, WHICH ARE DEPICTED, WERE MADE WITH PRIOR APPROVALS AND IN MY JUDGEMENT DO NOT ALTER THE MAIN INTENT OF THE DESIGN, THE SAFETY OR THE STRUCTURAL INTEGRITY OF THE CONSTRUCTED WORK AND WILL NOT PREVENT THE PROJECT FROM FUNCTIONING IN ACCORDANCE WITH THE CONSTRUCTED WORK AND WILL NOT PREVENT THE PROJECT FROM FUNCTIONING IN ACCORDANCE WITH THE RULE REQUIREMENTS".

**MAINTENANCE OF TRAFFIC (MOT) NOTES:**

1. THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE LATEST EDITION TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2023)" AND THE LATEST EDITION TO THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN STANDARDS. ALL DEVICES SHALL BE INCLUDED IN PRICE BID FOR MAINTENANCE OF TRAFFIC.
2. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF DURING CONSTRUCTION, ACCESS FOR LOCAL TRAFFIC IS CHANGED, THEN THE CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF THREE WORKING DAYS IN ADVANCE.
3. ACCESS TO ALL DRIVEWAYS SHALL BE MAINTAINED. COMMERCIAL DRIVEWAY MAINTENANCE SHALL BE PROVIDED AS DIRECTED BY THE PROJECT ENGINEER, FDOT AND CITY OF COCOA BEACH. COST TO BE INCLUDED IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC.
4. CONTRACTOR SHALL SUBMIT A FLORIDA LICENSED PROFESSIONAL ENGINEERS SIGNED AND SEAL MAINTENANCE OF TRAFFIC PLAN TO CITY OF COCOA BEACH AND/OR FDOT FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO STARTING CONSTRUCTION. THE HOURS OF OPERATION FOR WORKS WITHIN THE FDOT AND CITY OF COCOA BEACH RIGHT-OF-WAY ARE BASED ON LOCATION OF WORK, TRAFFIC COUNT, AND WILL BE CLARIFIED BY THE FDOT AND CITY OF COCOA BEACH RIGHT-OF-WAY UTILIZATION PERMIT.

**FDOT NOTES:**

1. ALL WORK PERFORMED WITHIN FDOT RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST FDOT STANDARD PLANS AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE 2017 UTILITY ACCOMODATION MANUAL.
2. LOCATE ALL UTILITIES/FACILITIES, INCLUDING STORMWATER DRAINAGE SYSTEMS, PRIOR TO START OF CONSTRUCTION, TO DETERMINE ACTUAL LOCATION & DEPTH OF OTHER FACILITIES.
3. DISCHARGING INTO FDOT STROMWATER DRAINAGE SYSTEM WITHOUT PRIOR APPROVED DEWATERING PLAN IS NOT PERMITTED.
4. CONTRACTOR SHALL RESTORE RIGHT-OF-WAY TO EQUAL OR BETTER CONDITION UPON COMPLETION OF WORK.
5. RESTORATION OF SODDING AND TURF SHOULD BE DONE ACCORDING TO FDOT STANDARDS INDEX 570-010.
6. ANY SIDEWALK, RAMPS AND/OR CURB AND GUTTER WORK SHOULD BE PER FDOT STANDARD PLANS NO. 520-001, 522-001,522-002 AND 522-003 AND FDOT STANDARD SPECIFICATION 522.



**Black & Veatch Corporation**  
 Certificate No. 8132  
 201 South Orange Avenue, Suite 500  
 Orlando, Florida 32801



Olena Lytvyn, State of Florida  
 Professional Engineer  
 License No.82696

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**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

**100% SUBMITTAL**

REVISIONS AND RECORD OF ISSUE	
DESIGNED:	JH
DETAILED:	LP
CHECKED:	MM
APPROVED:	OL
DATE:	DECEMBER 2025
PROJECT NO.:	421730

**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

**GENERAL**

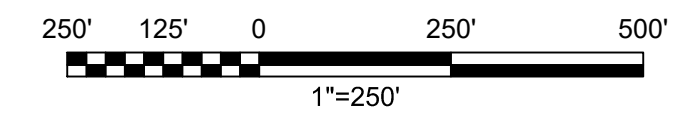
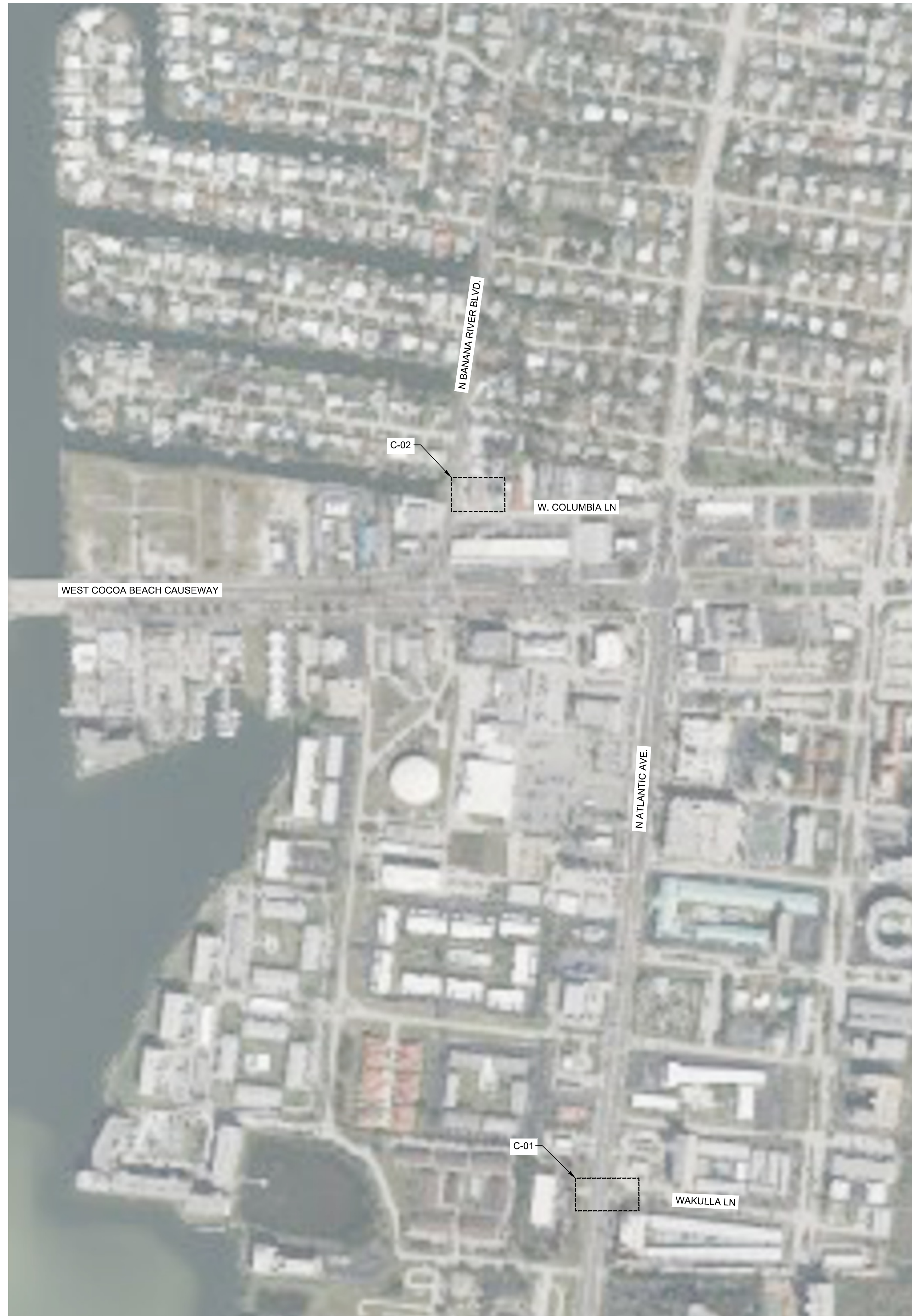
**GENERAL NOTES**

**G-02**

**3 OF 18**

**ISSUED FOR BID**

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**Black & Veatch Corporation**  
Certificate No. 8132  
201 South Orange Avenue, Suite 500  
Orlando, Florida 32801



Olena Lytyn, State of Florida  
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**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

GENERAL

KEY MAP

**G-03**

4  
OF  
18

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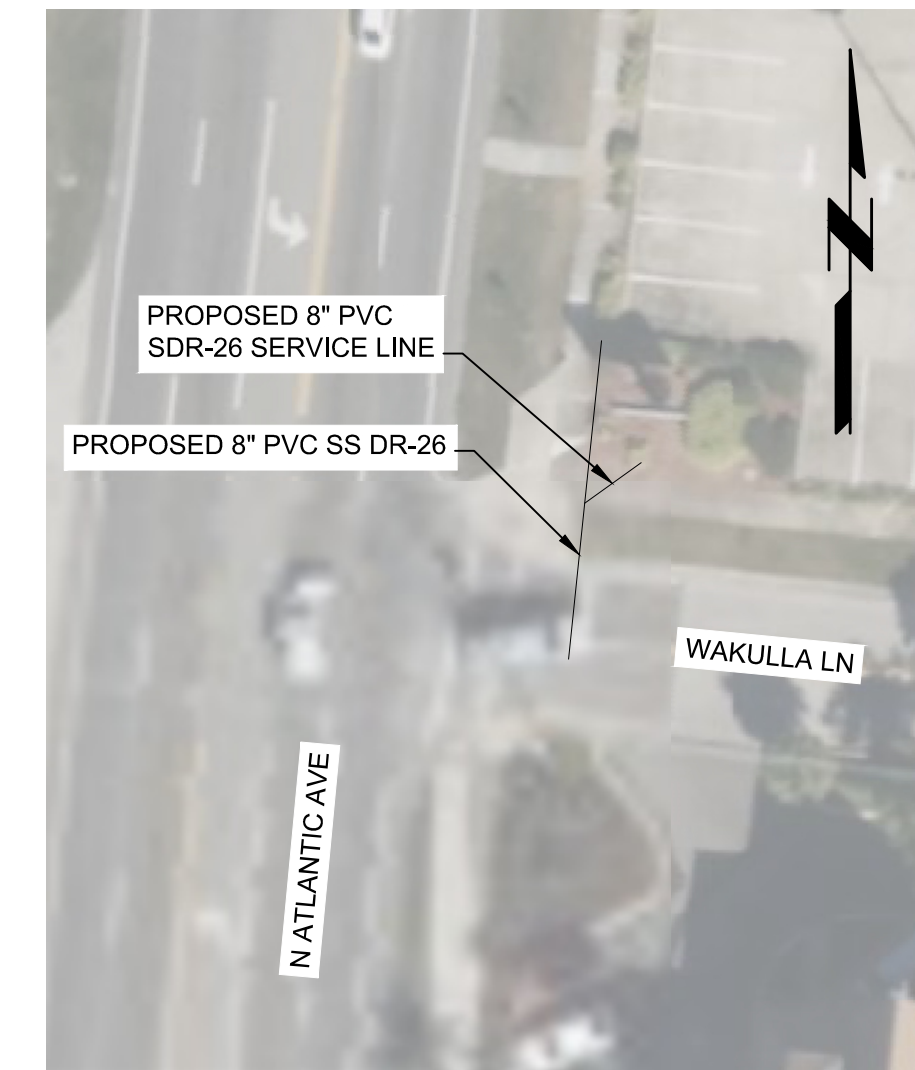
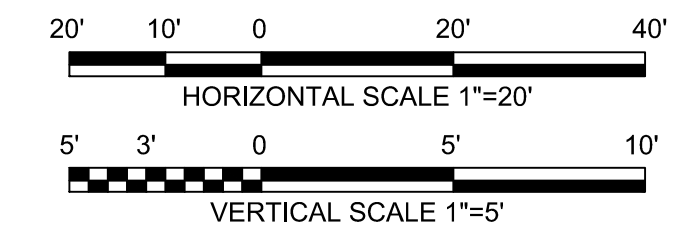
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**NOTES:**

1. CONTRACTOR MUST BY-PASS EXISTING FLOW. AT NO POINT SHALL SERVICE BE DISRUPTED. CONTRACTOR SHALL MAINTAIN TWO PUMPS ON SITE AT ALL TIMES.
2. CONTRACTOR TO CONNECT TO EXISTING MANHOLE AT PROPOSED INVERT ELEVATIONS USING COUPLINGS AS NECESSARY PER DETAIL S-7.
3. CONTRACTOR MUST FIELD VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. NO JOINTS SHALL BE ALLOWED AT UNDER A HORIZONTAL DISTANCE OF 5 FT FROM OTHER UTILITY CROSSINGS IN ANY DIRECTION.
5. CONTRACTOR TO POUR CLSM WHERE MINIMUM SEPARATION BETWEEN SEWER AND STORM DRAIN CANNOT BE ACHIEVED.
6. CONTRACTOR TO REMOVE AND REPLACE EXISTING PIPE FROM STA 0+00 TO NEAREST JOINT OF EXISTING 8" VCP PIPE NEAR STATION 0+43.



KEY PLAN

Olena Lytyn, State of Florida  
 Professional Engineer  
 License No. 82696

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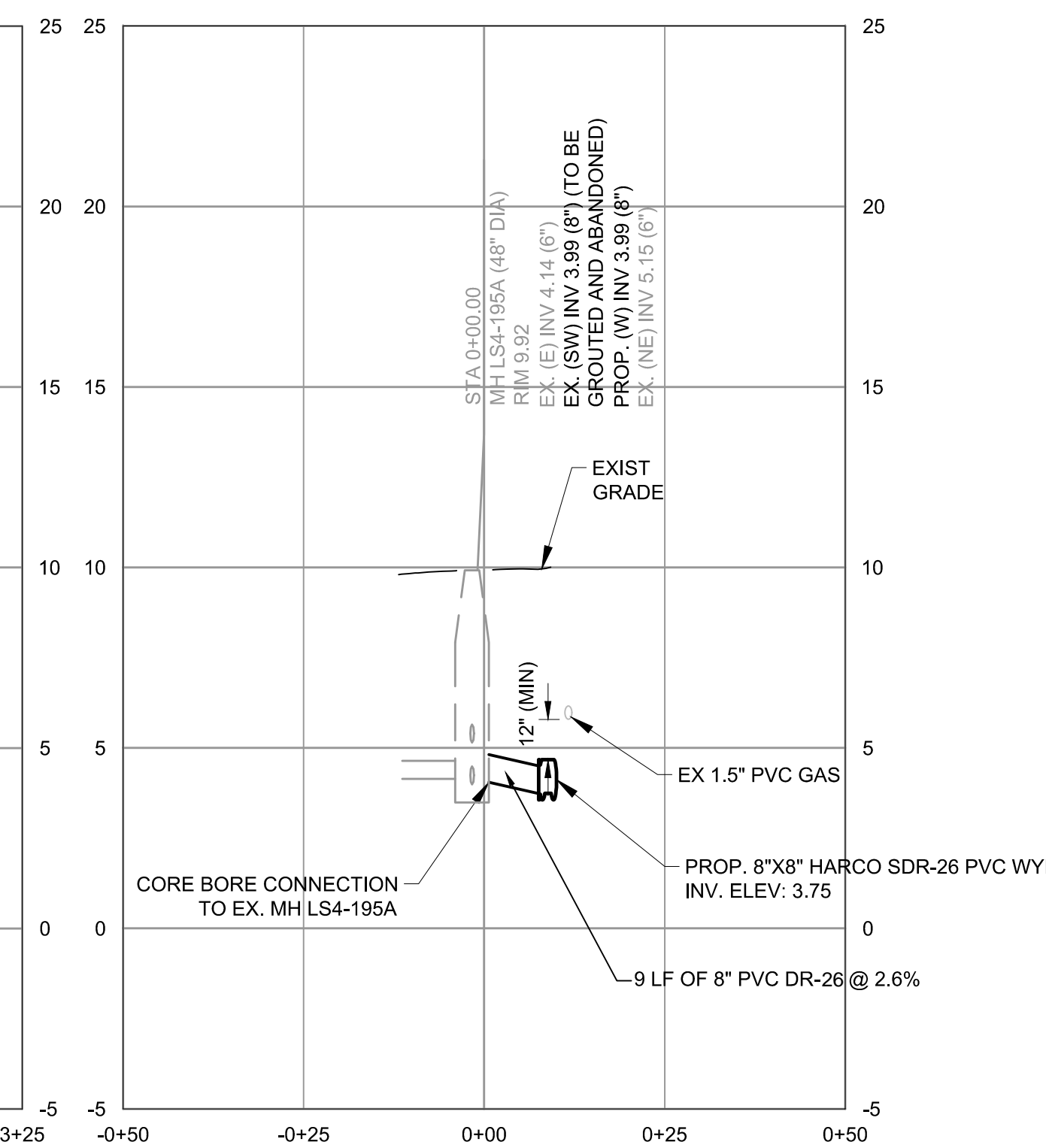
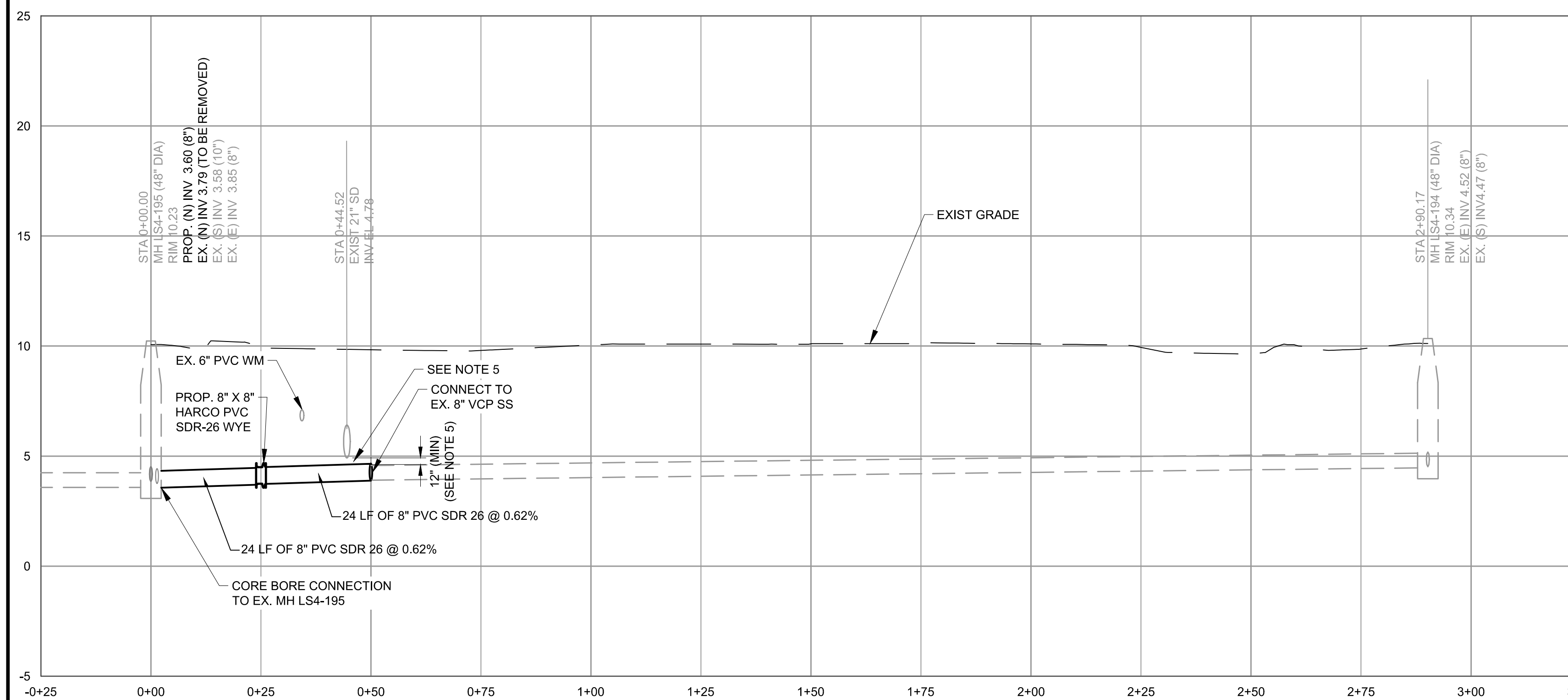
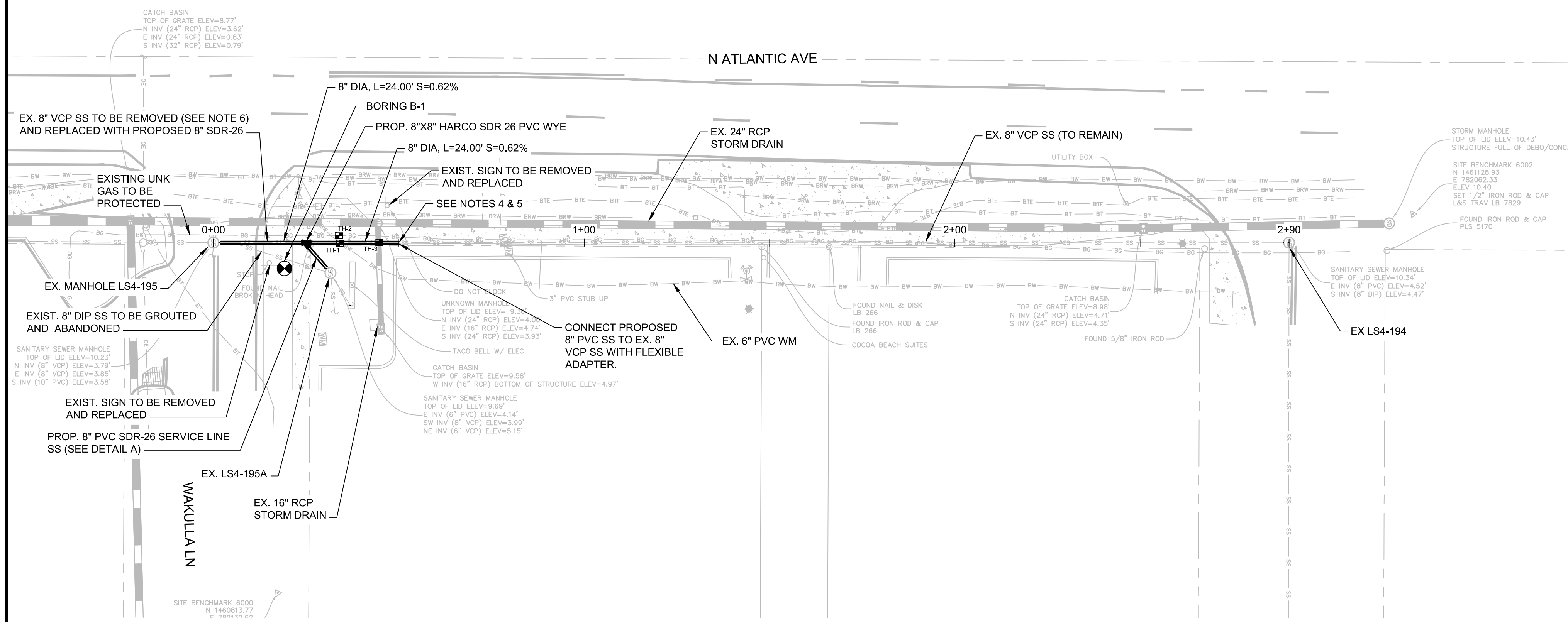
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CIVIL

**PLAN AND PROFILE - N ATLANTIC AVE AND WAKULLA LN**

C-01

5 OF 18



**PROPOSED 8" PVC SS**  
 HORIZ. 1"=20' VERT. 1"=5'

**ISSUED FOR BID**

(SCALE BAR IS 4" AT FULL SCALE)



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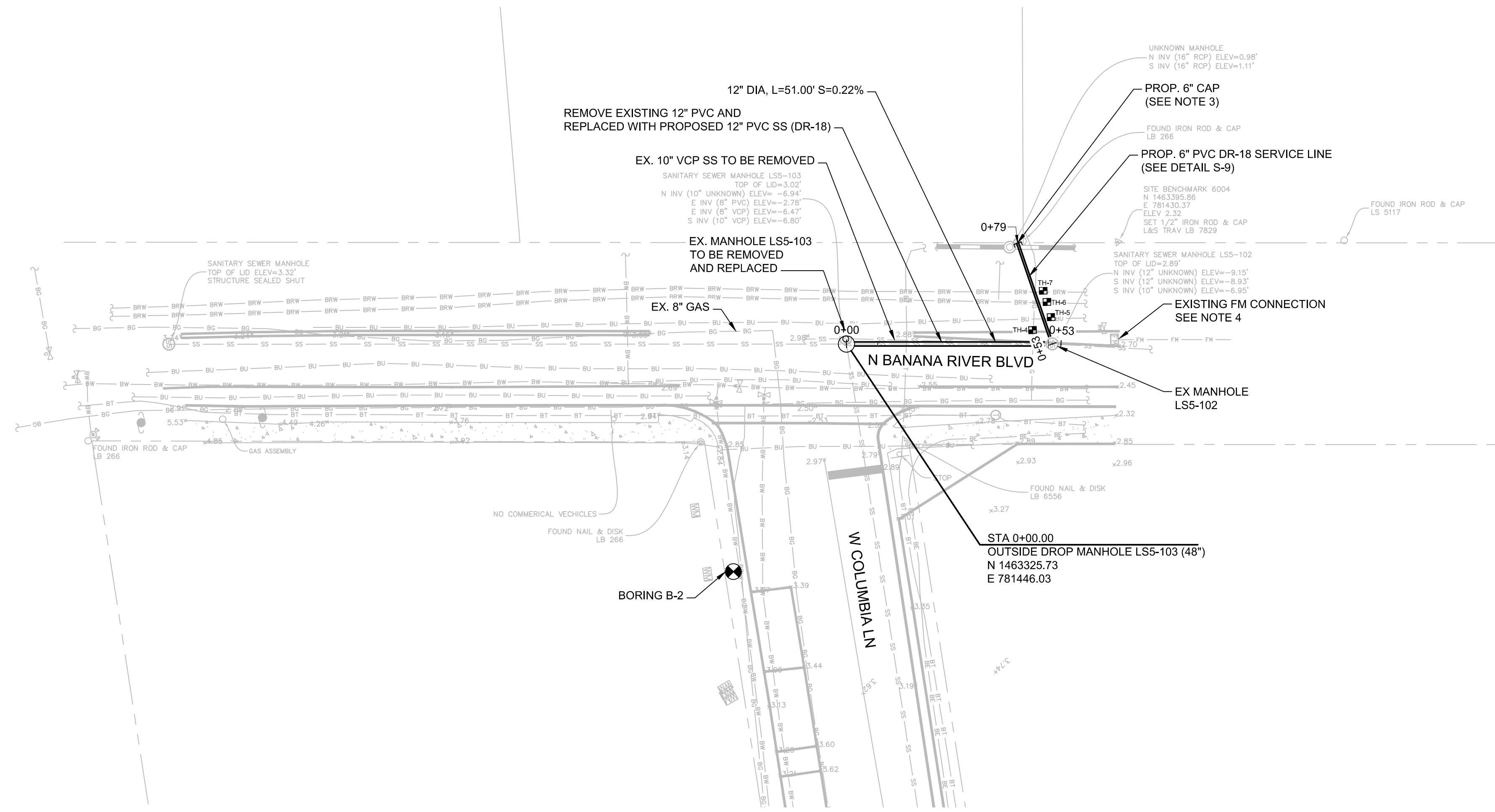
**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

CIVIL

**PLAN AND PROFILE - N BANANA RIVER BLVD**

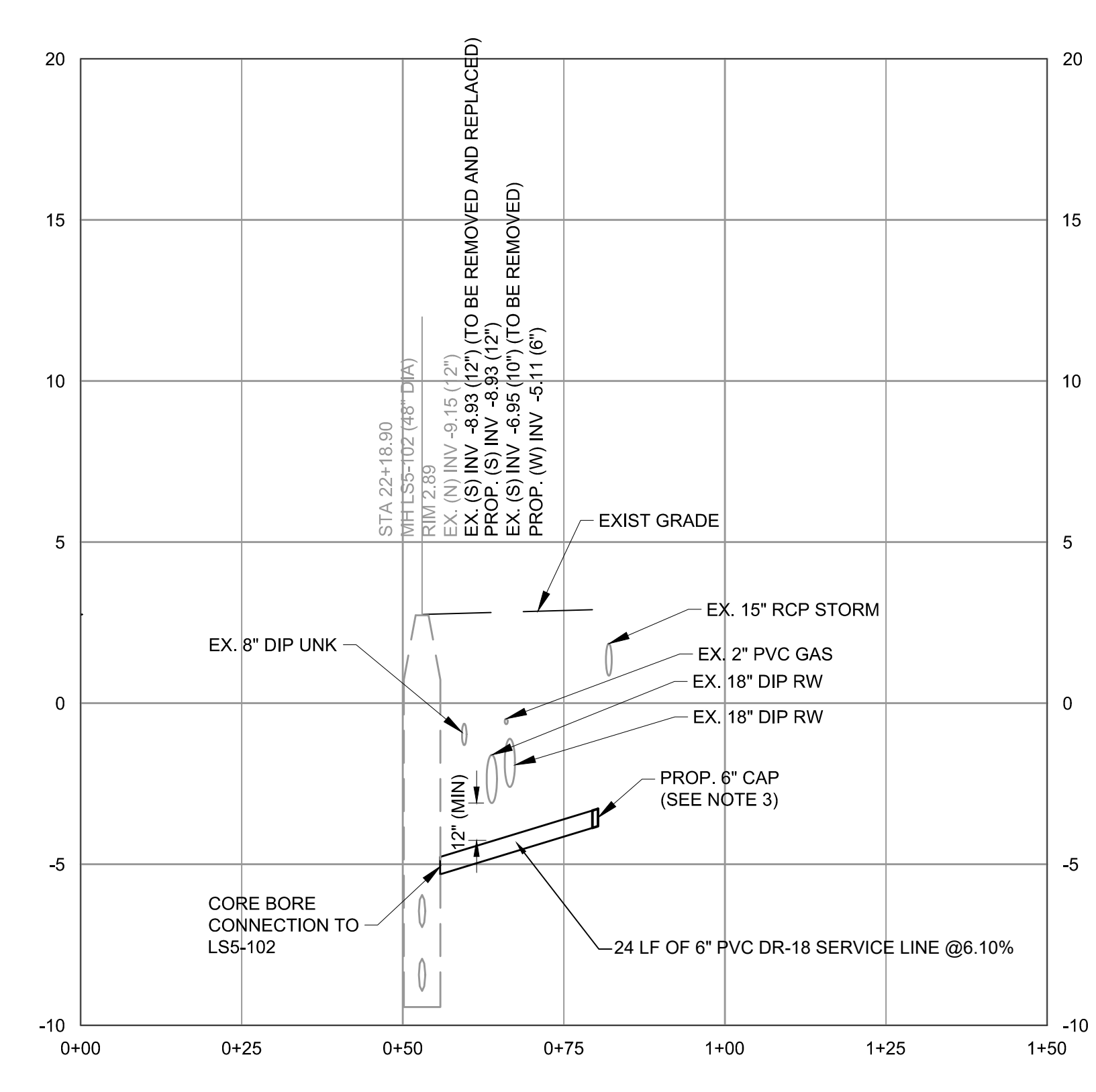
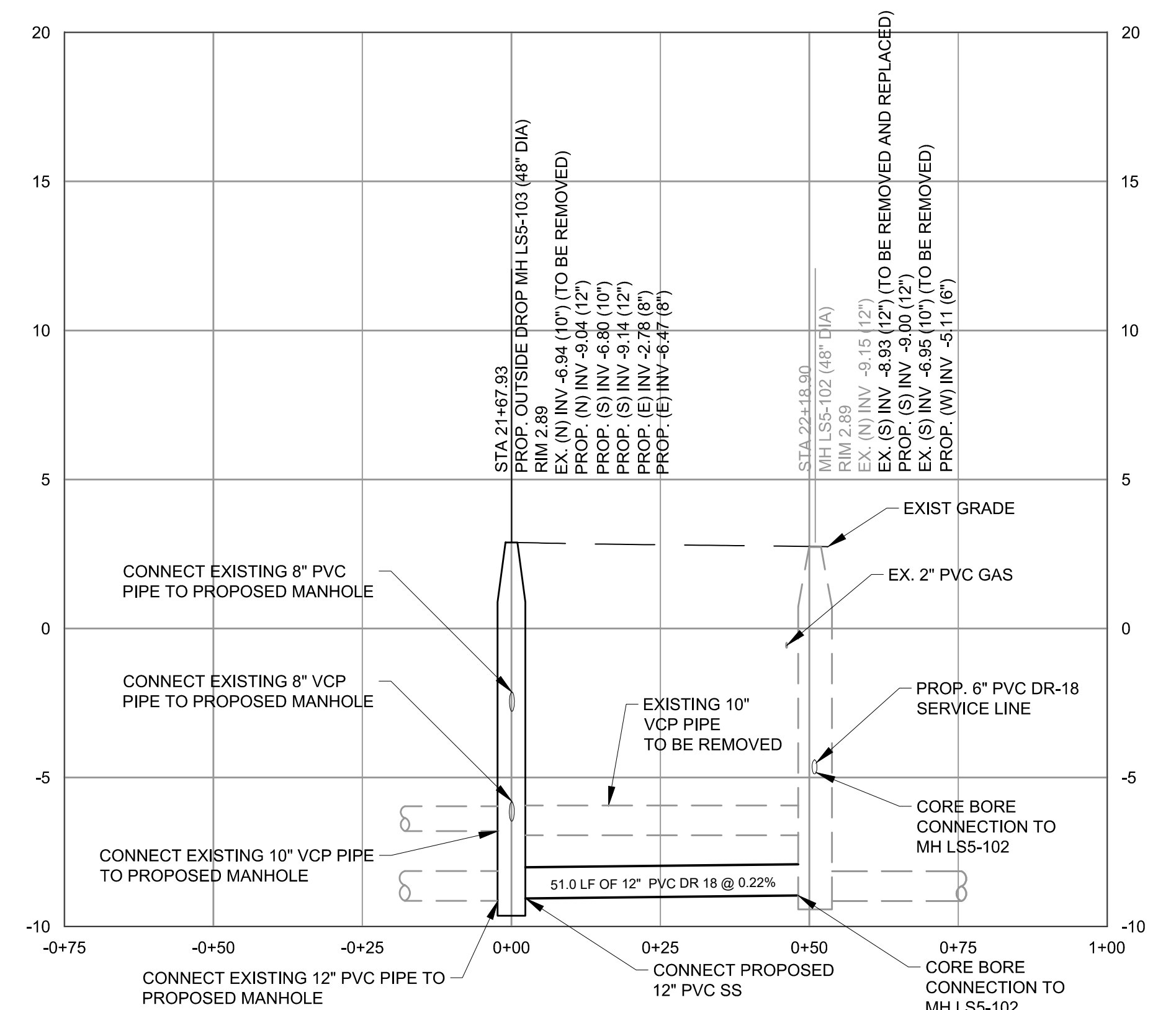
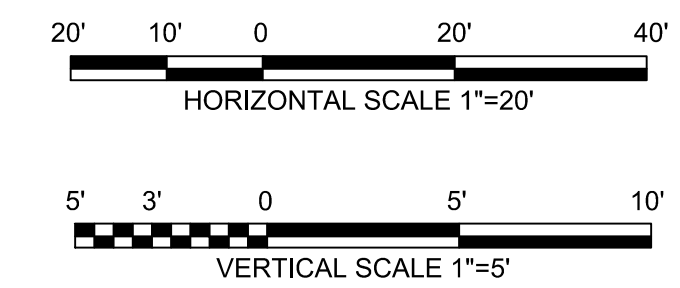
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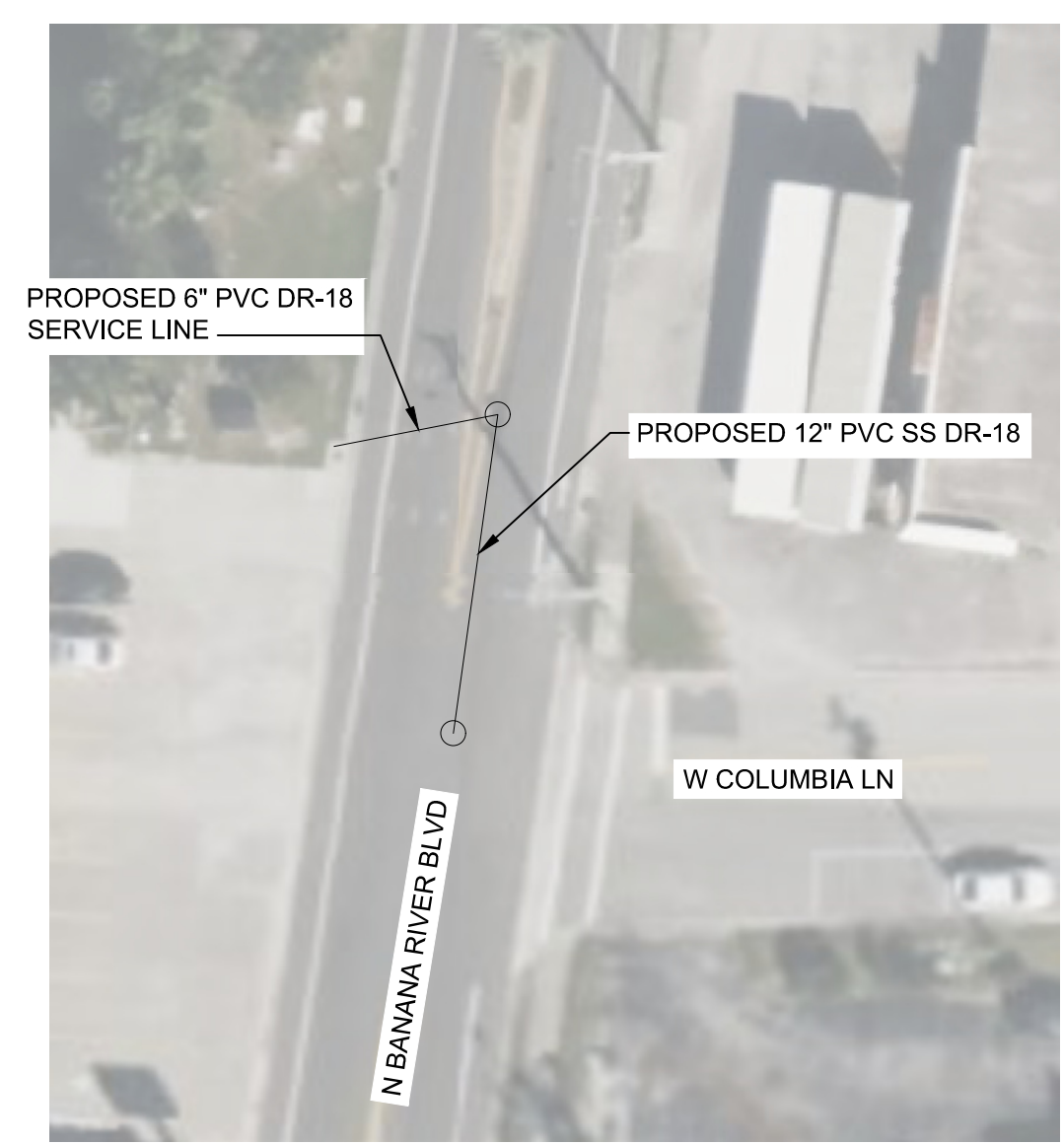


**NOTES:**

- CONTRACTOR MUST BY-PASS EXISTING FLOW. AT NO POINT SHALL SERVICE BE INTERRUPTED. CONTRACTOR SHALL MAINTAIN TWO PUMPS ON SITE AT ALL TIMES.
- CONTRACTOR TO CONNECT TO EXISTING MANHOLE AT PROPOSED INVERT ELEVATIONS USING COUPLINGS AS NECESSARY PER DETAIL S-7.
- CONTRACTOR TO INSTALL PROPOSED 6" PVC SERVICE LINE UP TO PROPERTY LINE. CONTRACTOR SHALL PROTECT EXISTING STORM SEWER MANHOLE.
- CONTRACTOR MAY USE EXISTING FM CONNECTION TO BYPASS EXISTING GRAVITY SEWER FLOW.
- MANHOLE AND STORM SEWER LOCATION IS APPROXIMATE AND DRAWN FROM SITE OBSERVATIONS. CONTRACTOR SHALL VERIFY LOCATION PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY CITY OF COCOA BEACH AND ENGINEER OF ANY DISCREPANCIES FROM THE PLAN.



**B** PROPOSED 6" PVC SERVICE LINE  
 HORIZ. 1"=20' VERT. 1"=5'



KEY PLAN

**ISSUED FOR BID**



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 Professional Engineer  
 License No.82696

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BANANA RIVER BLVD AND ATLANTIC AVE SEWER

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REVISIONS AND RECORD OF ISSUE

DESIGNED:	JH
DETAILED:	LP
CHECKED:	MM
APPROVED:	OL
DATE:	DECEMBER 2025
PROJECT NO.:	421730

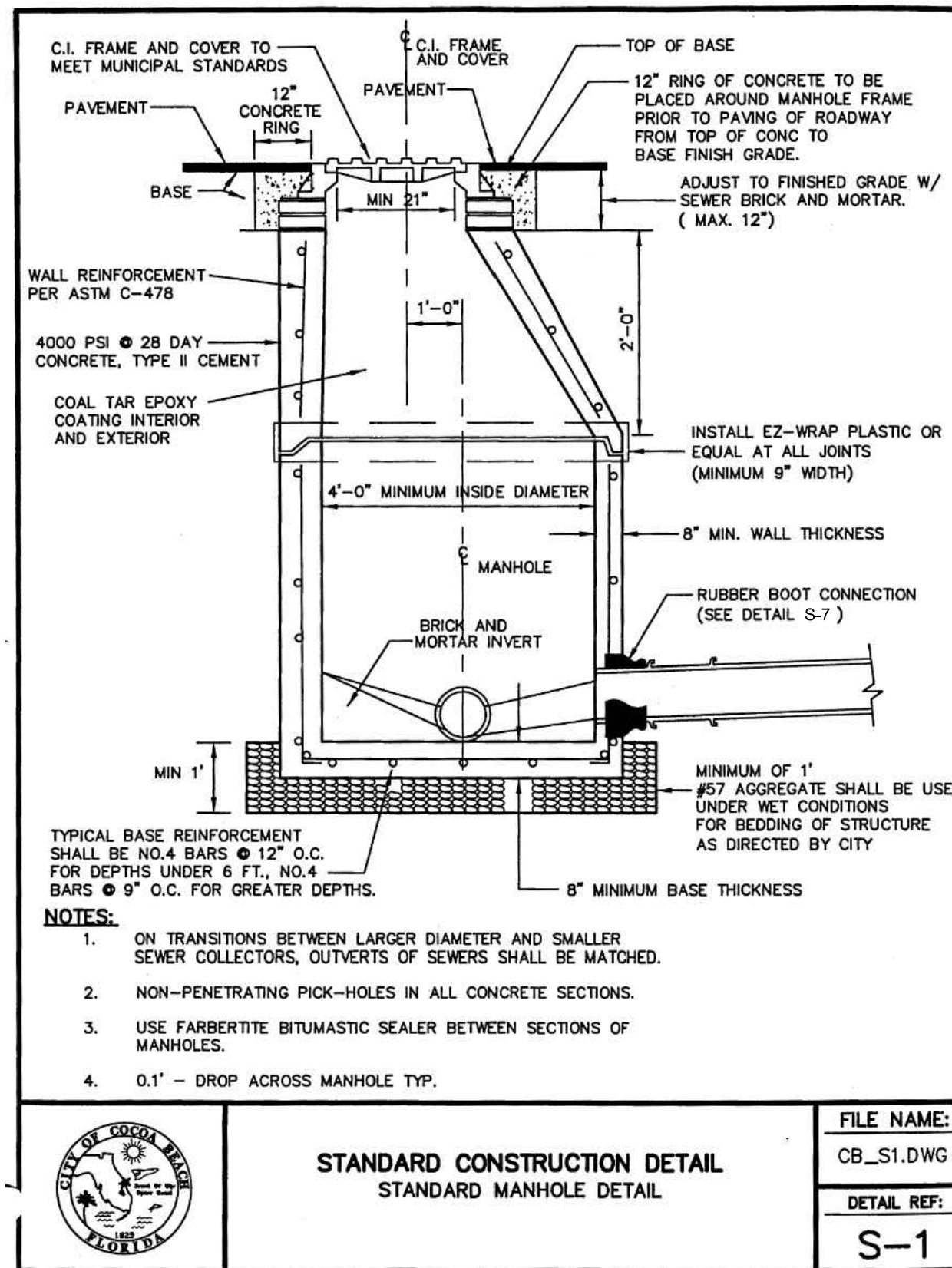
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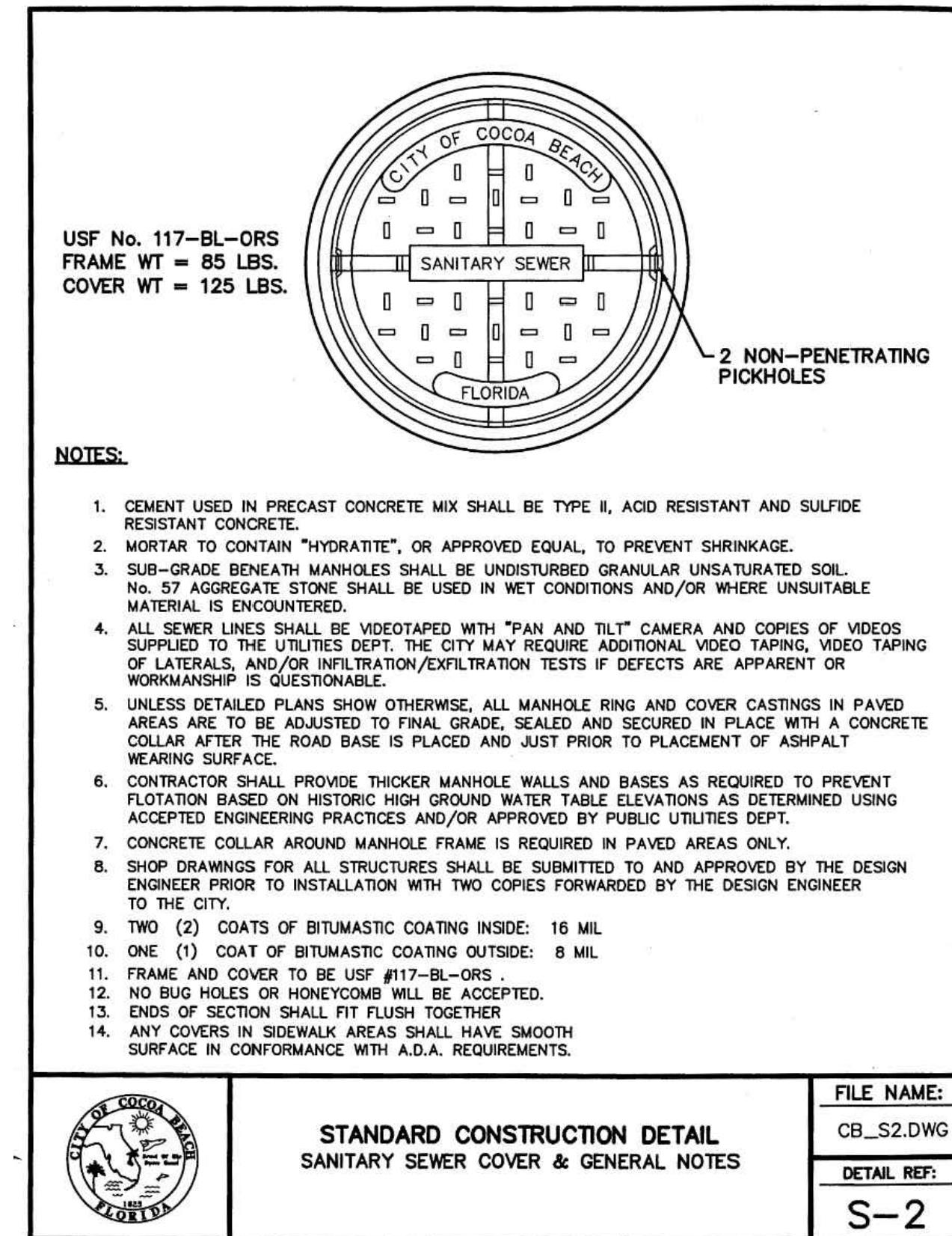
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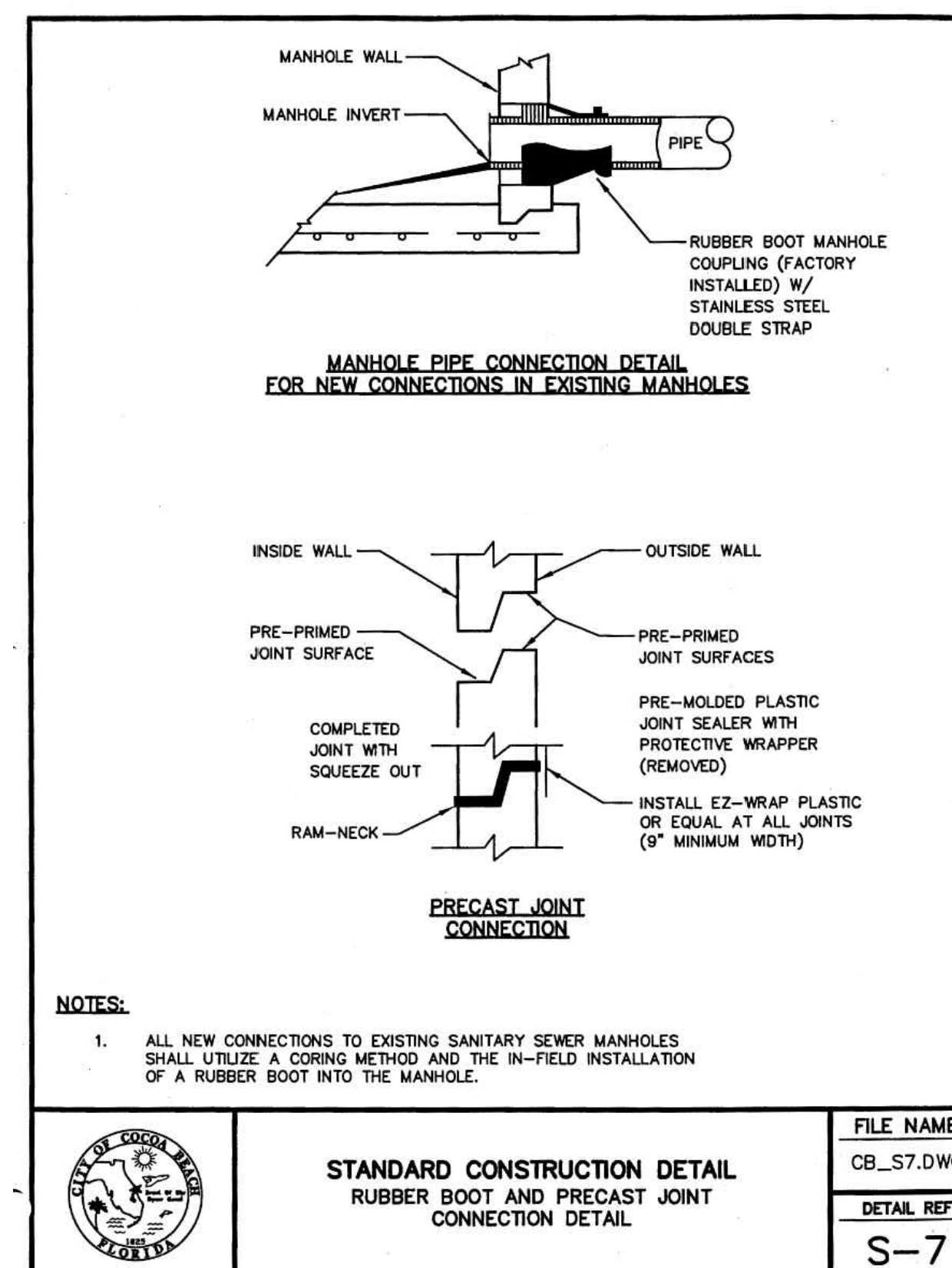
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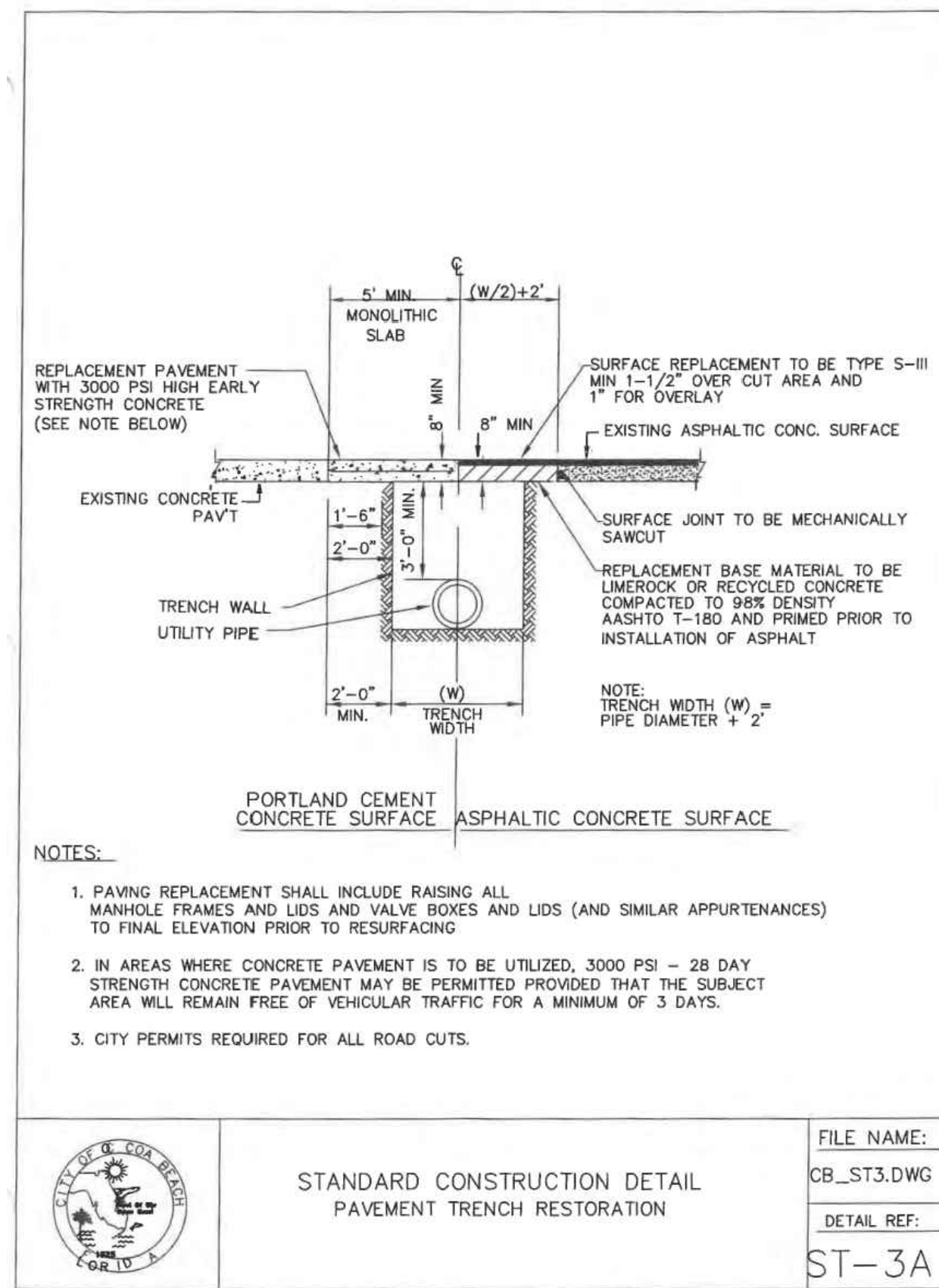
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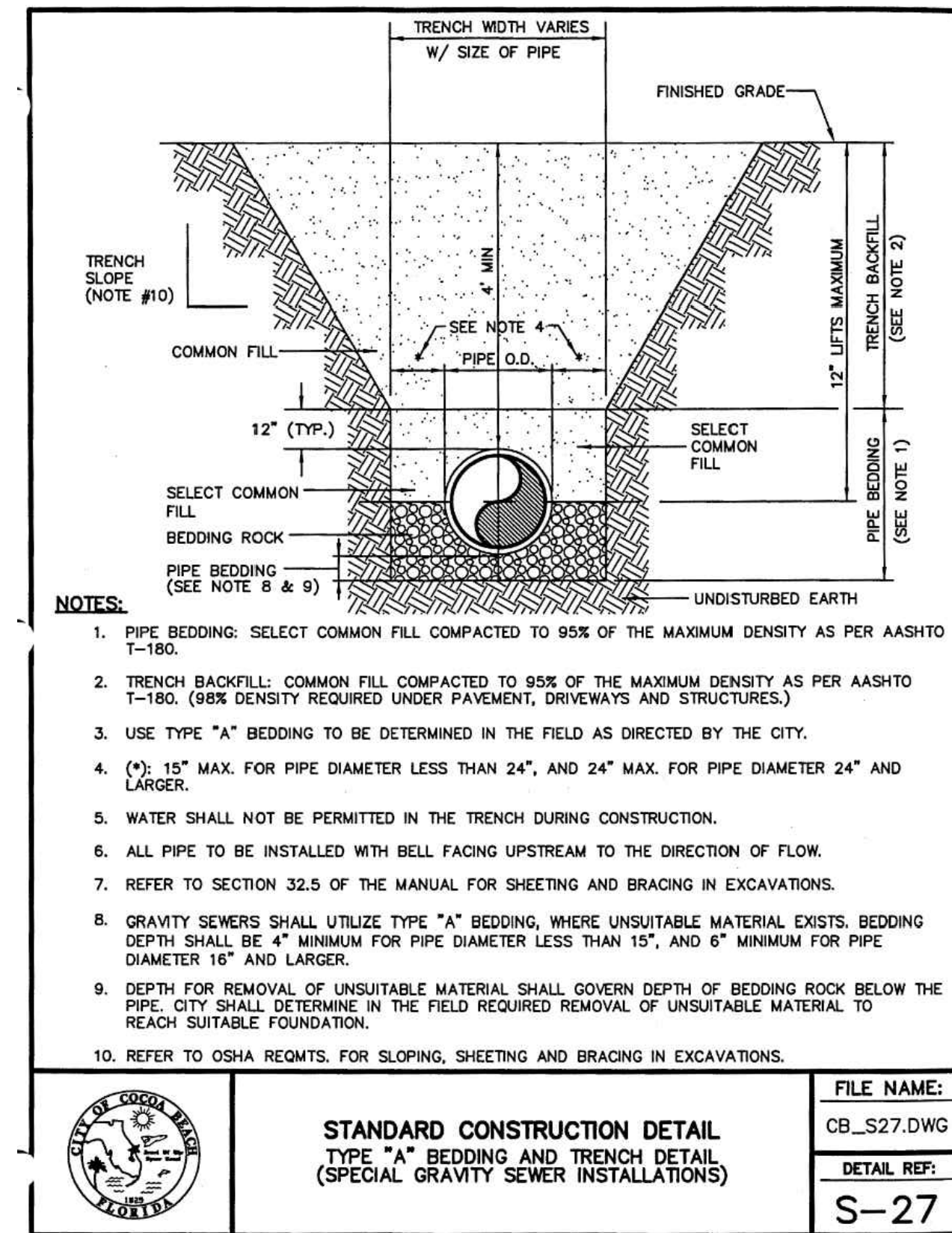
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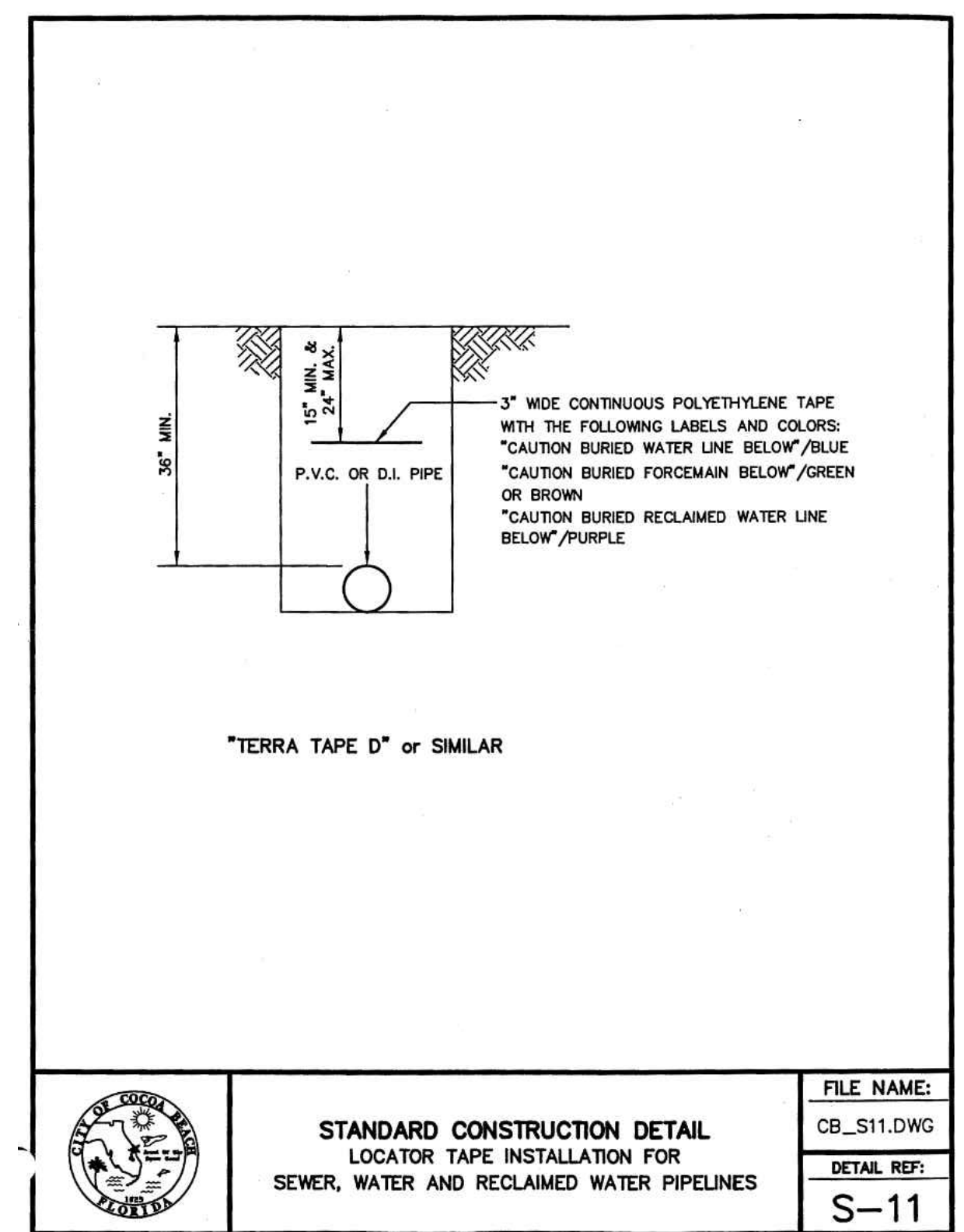
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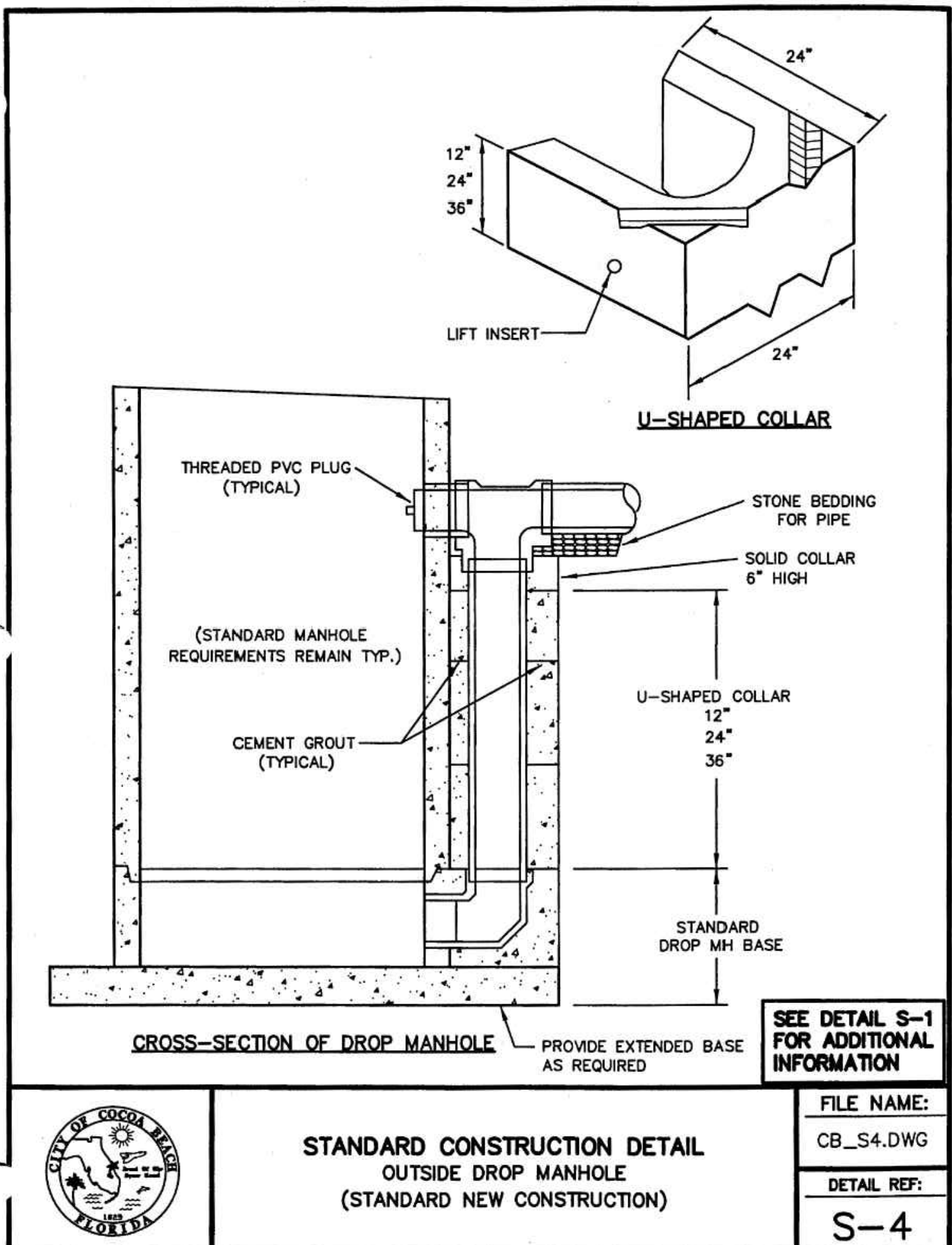


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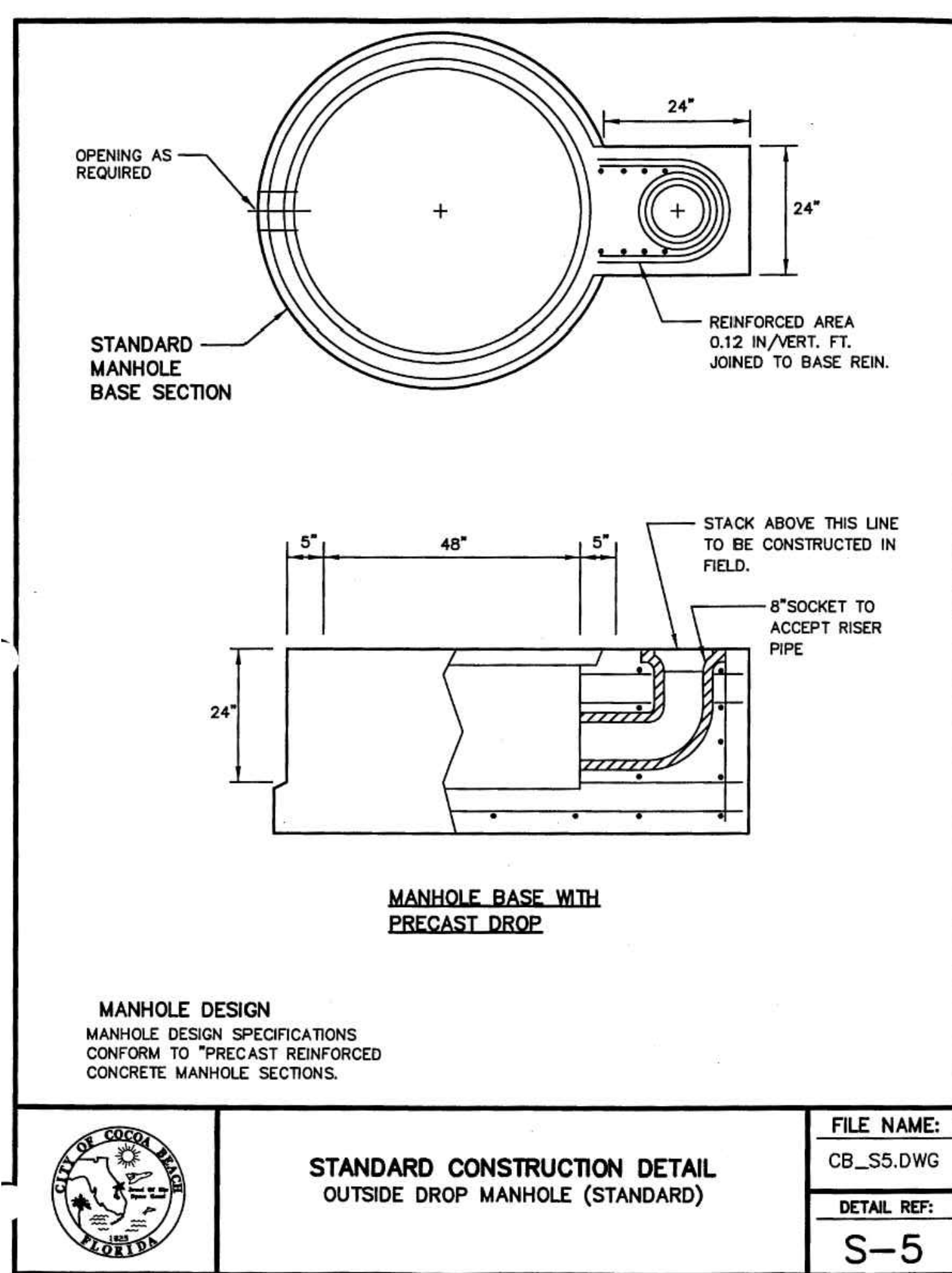


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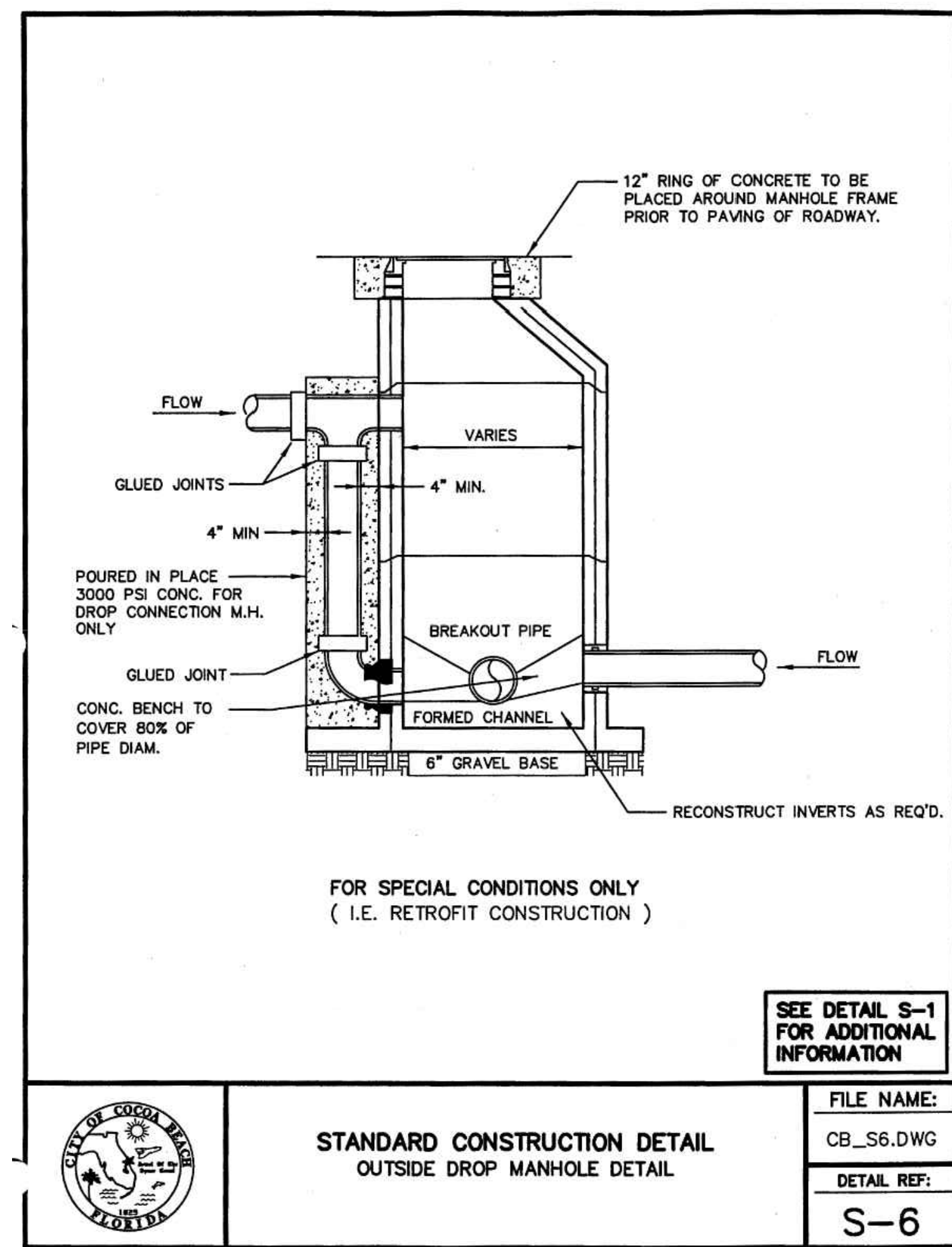
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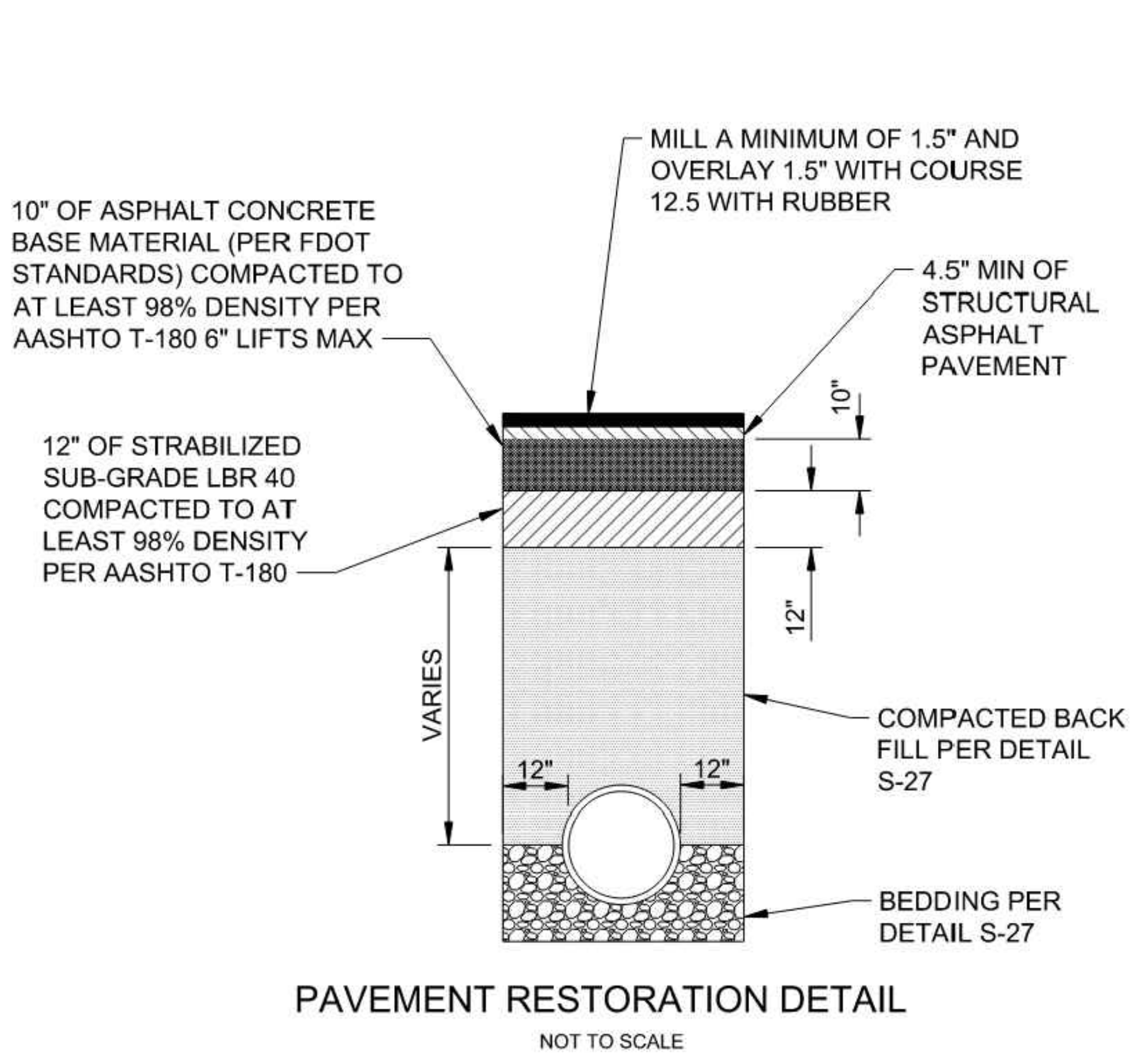
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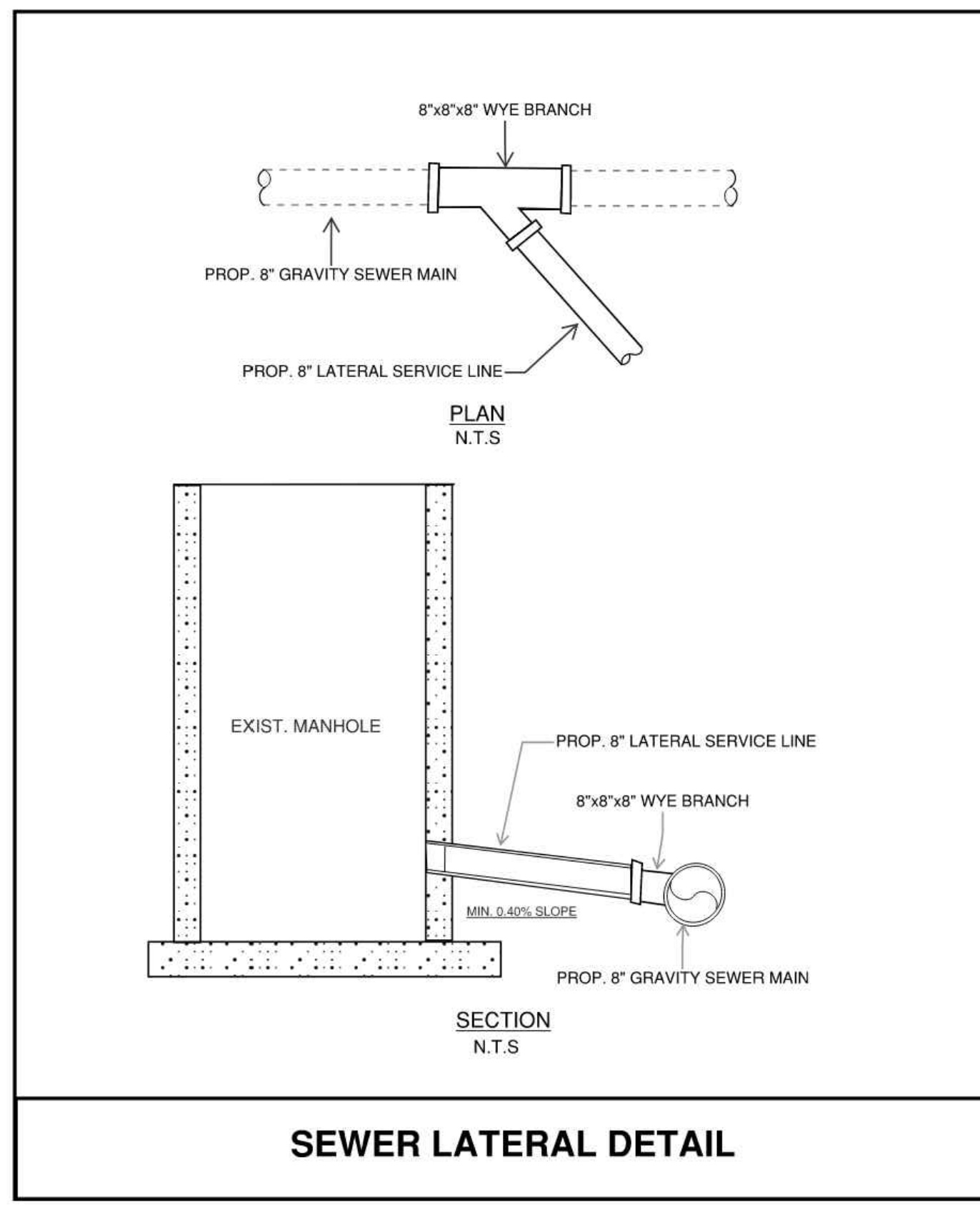
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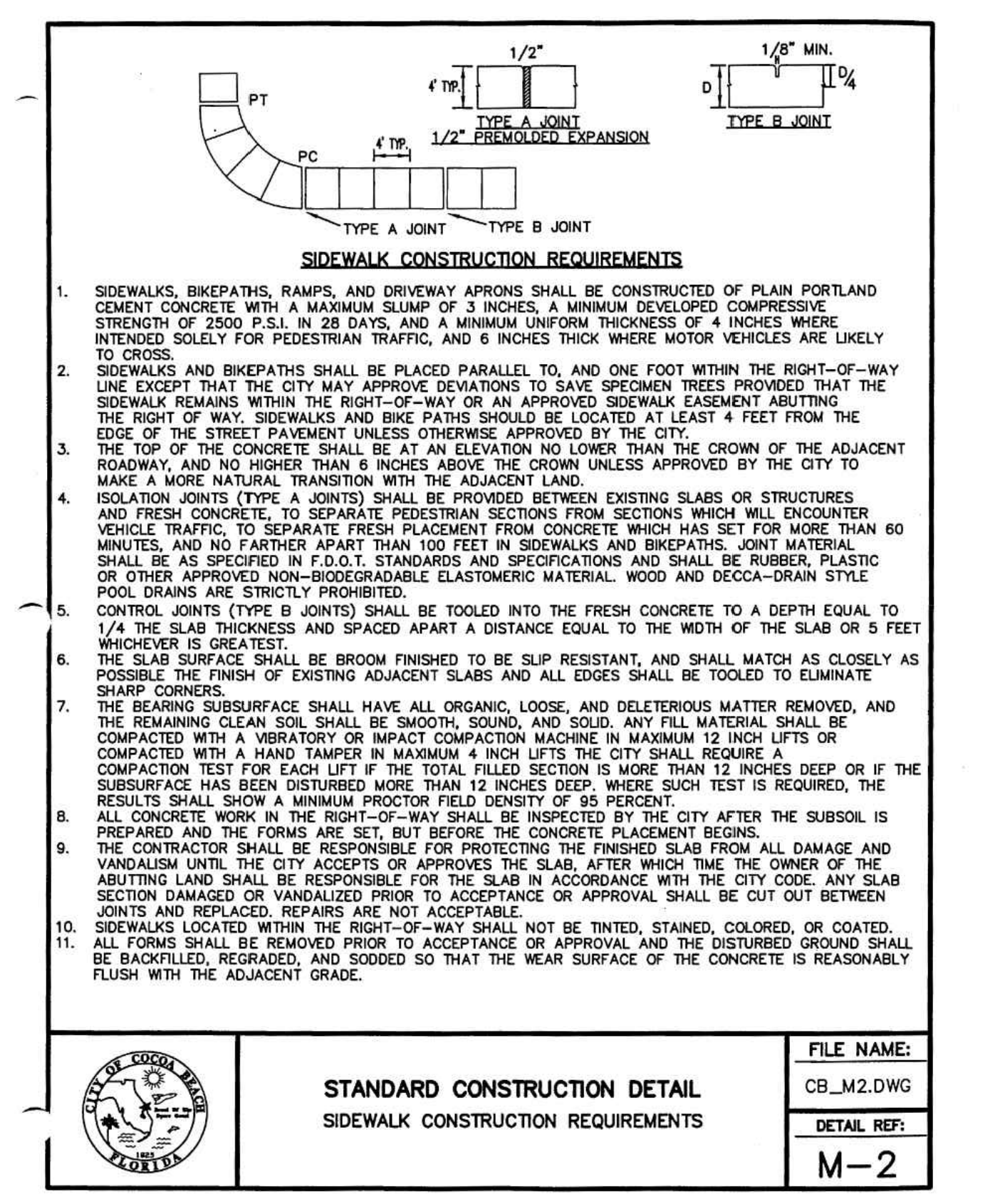
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**PAVEMENT RESTORATION DETAIL**  
NOT TO SCALE



**SEWER LATERAL DETAIL**  
N.T.S



	<b>STANDARD CONSTRUCTION DETAIL</b> SIDEWALK CONSTRUCTION REQUIREMENTS	FILE NAME:	CB_M2.DWG
		DETAIL REF:	M-2
		SIDEWALK CONSTRUCTION REQUIREMENTS	

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 Professional Engineer  
 License No. 82696

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BANANA RIVER BLVD  
 AND ATLANTIC AVE  
 SEWER

**100%  
 SUBMITTAL**

DESIGNED:	JH
DETAILED:	LP
CHECKED:	MM
APPROVED:	OL
DATE:	DECEMBER 2025
PROJECT NO.:	421730

BANANA RIVER BLVD AND  
 ATLANTIC AVE SEWER

CIVIL

DETAILS

C-04 8 OF 18

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PROJECT NO.:	421730

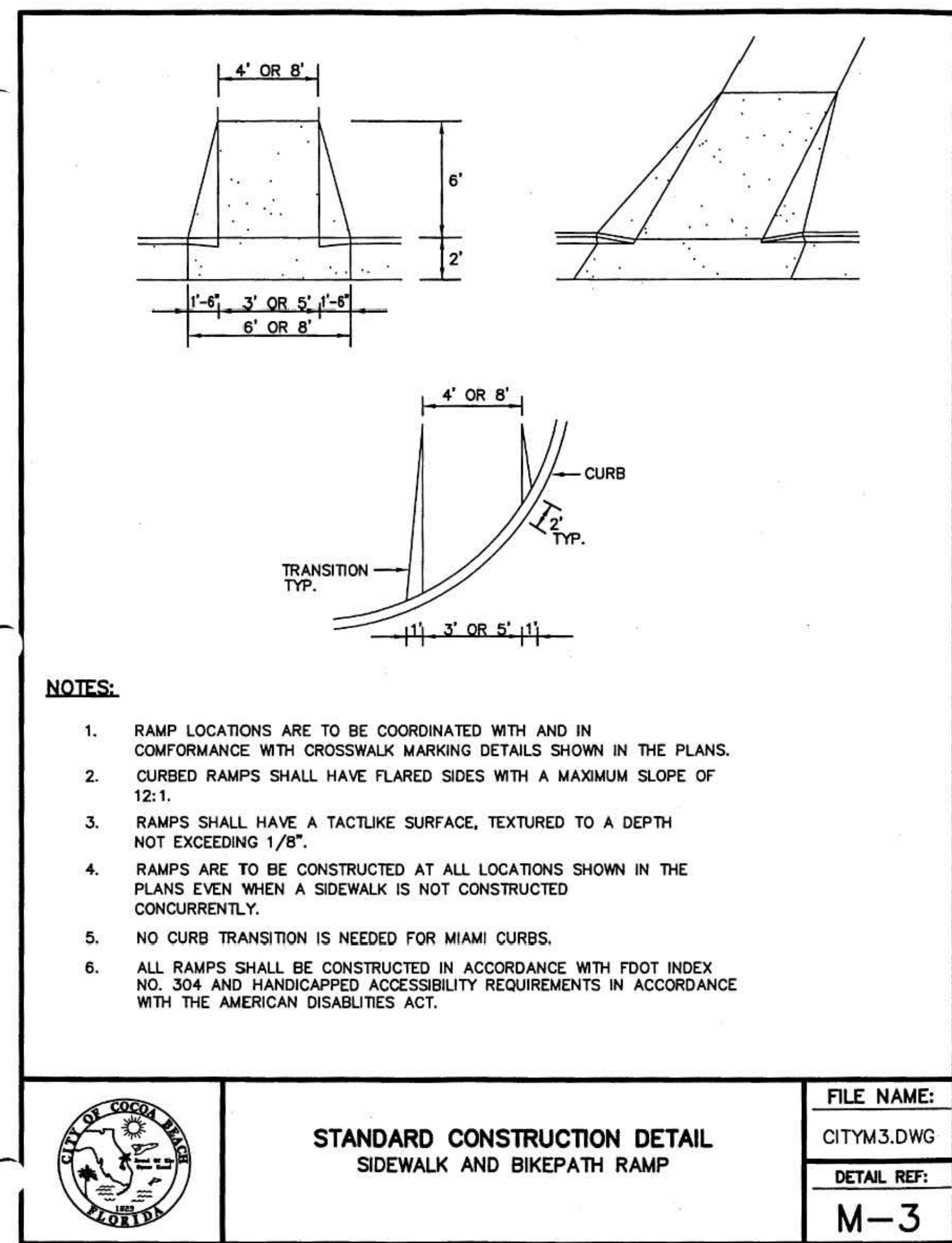
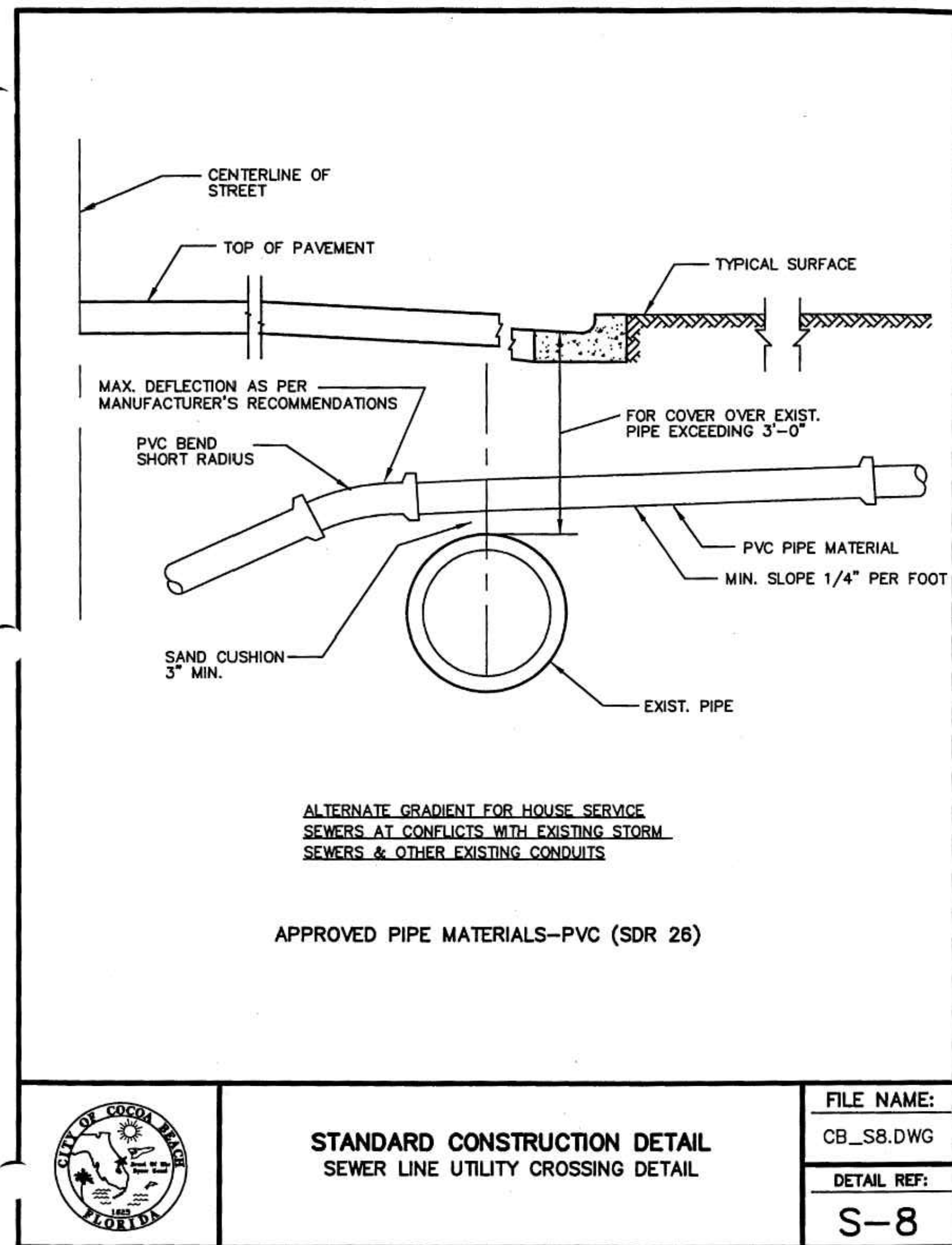
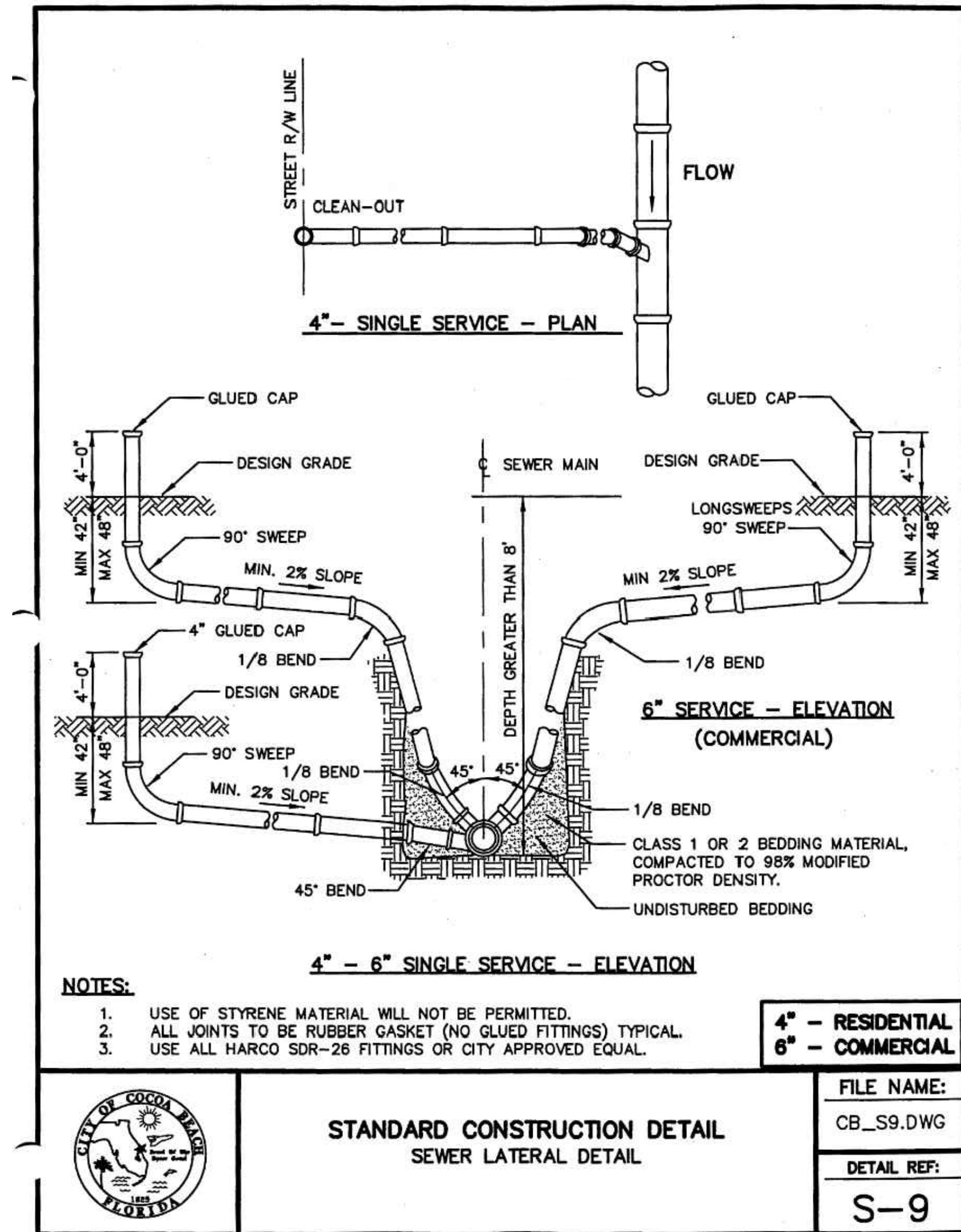
BANANA RIVER BLVD AND ATLANTIC AVE SEWER

CIVIL

DETAILS

C-05

9  
 OF  
 18



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PROJECT NO.:	421730

**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

CIVIL

**PAVEMENT RESTORATION PLAN**

P-01

10 OF 18

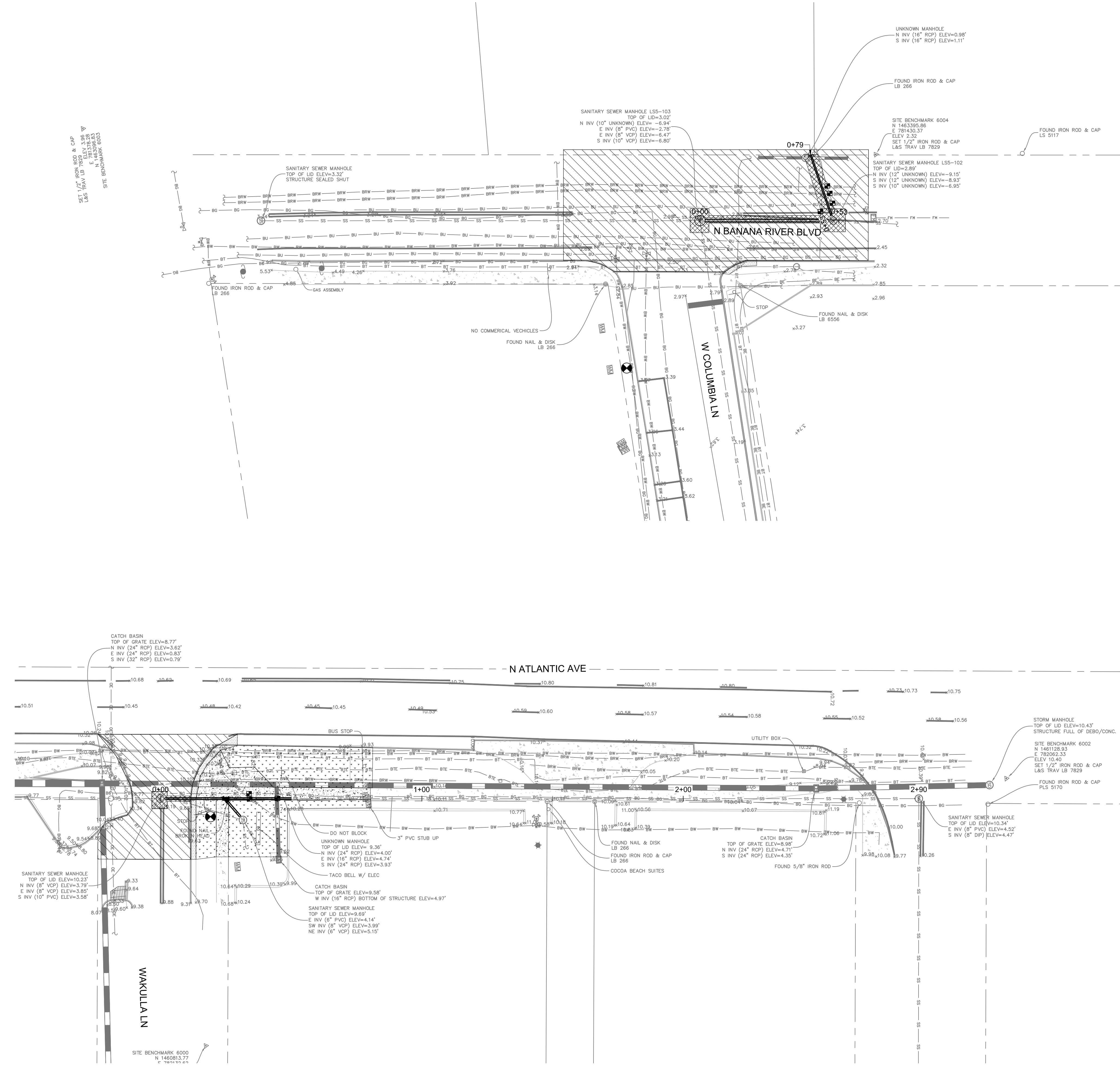


**NOTES:**

- CONTACT FDOT TO SCHEDULE PRE-WORK MEETING TWO WEEKS PRIOR TO BEGINNING WORK AT (321) 634-6100.
- COORDINATE OPEN CUT AND MILL & RESURFACE REPAIR WITH FDOT PERMITS OFFICE AT (321) 634-6100.

**RESTORATION LEGEND**

- ASPHALT RESTORATION
- MILL AND OVERLAY
- CONCRETE SIDEWALK
- LAWN RESTORATION
- PAVEMENT MARKINGS
- CURB AND GUTTER RESTORATION



**ISSUED FOR BID**

(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

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AND ATLANTIC AVE  
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PROJECT NO.:	421730

**BANANA RIVER BLVD AND  
ATLANTIC AVE SEWER**

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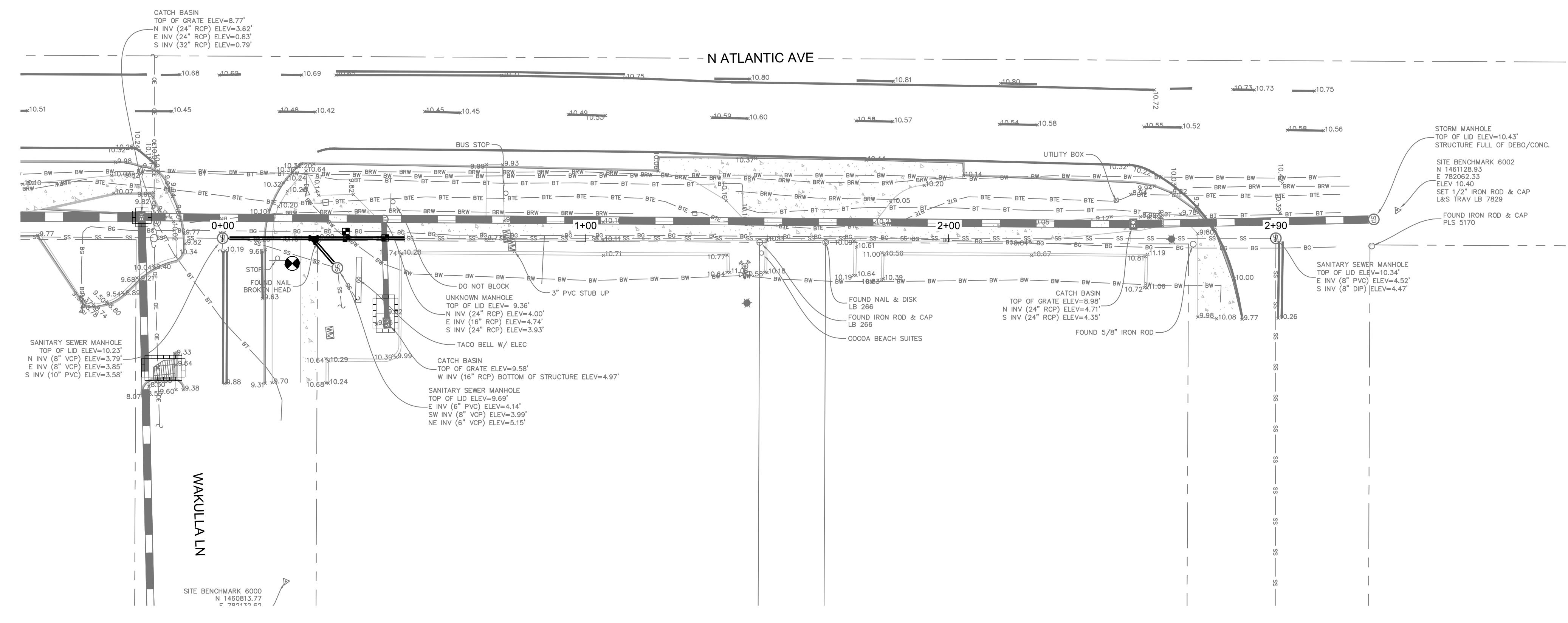
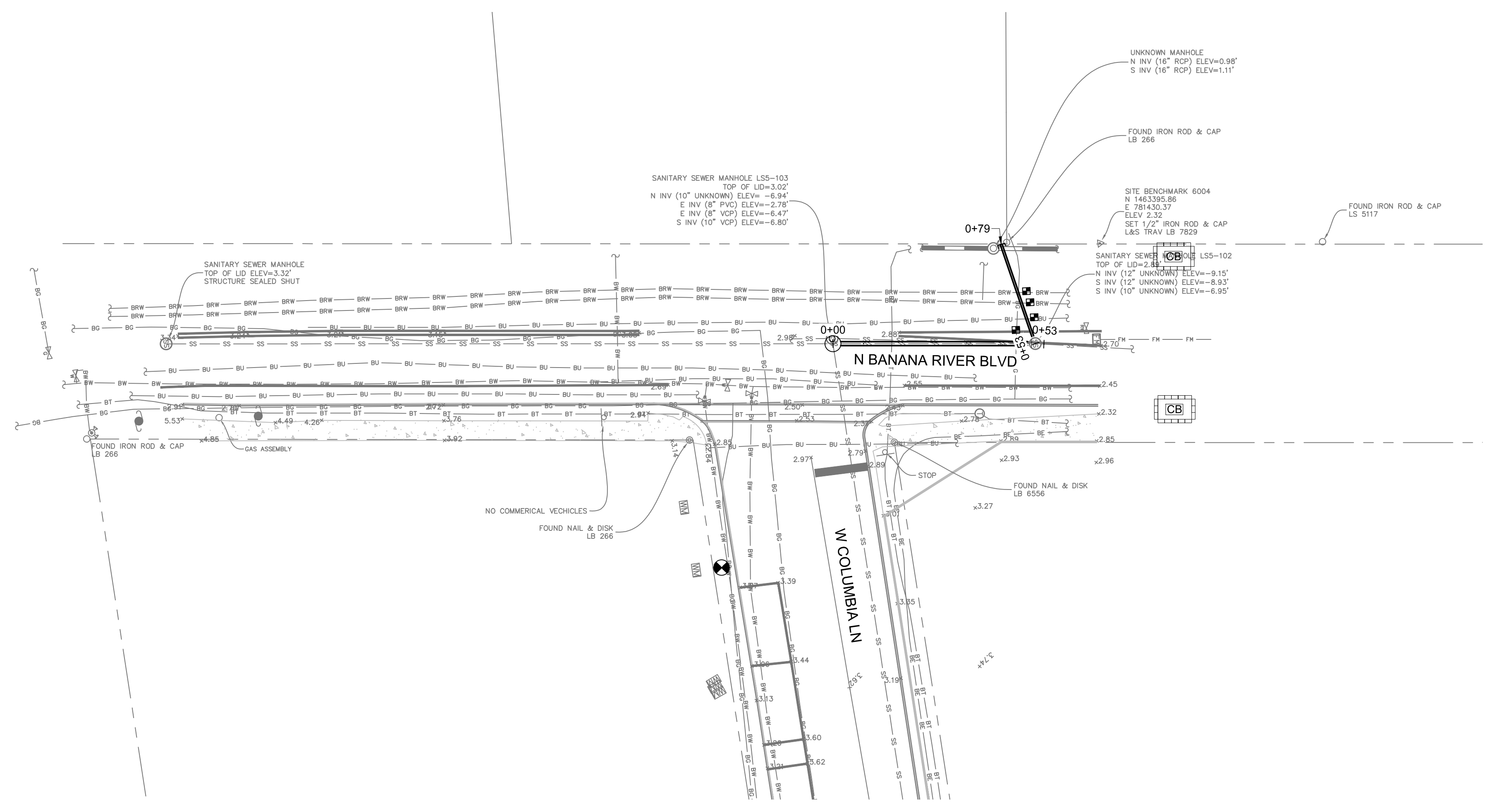
**EROSION CONTROL PLAN**

E-01

11  
OF  
18

**EROSION CONTROLS LEGEND**

▬ INLET PROTECTION



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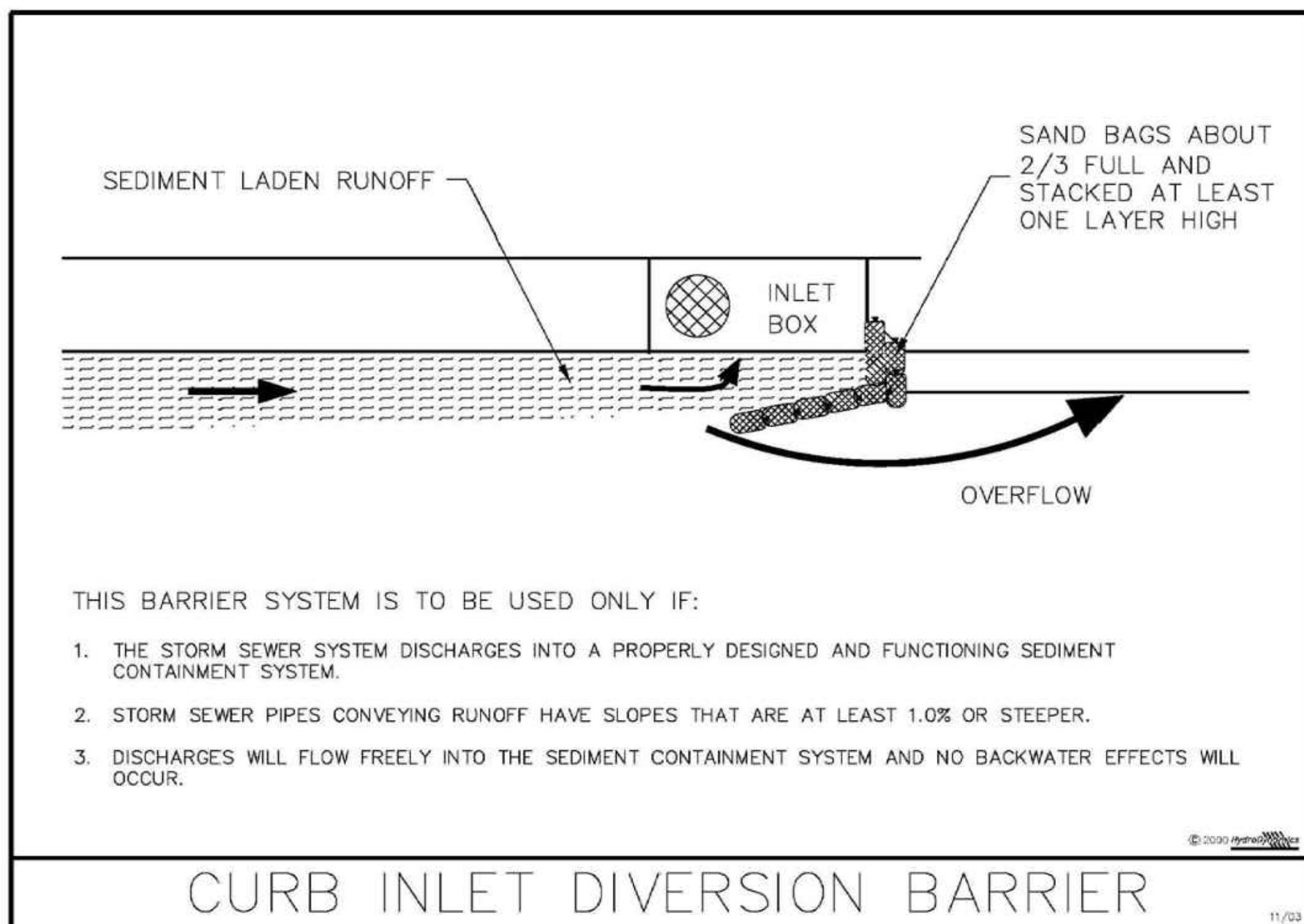
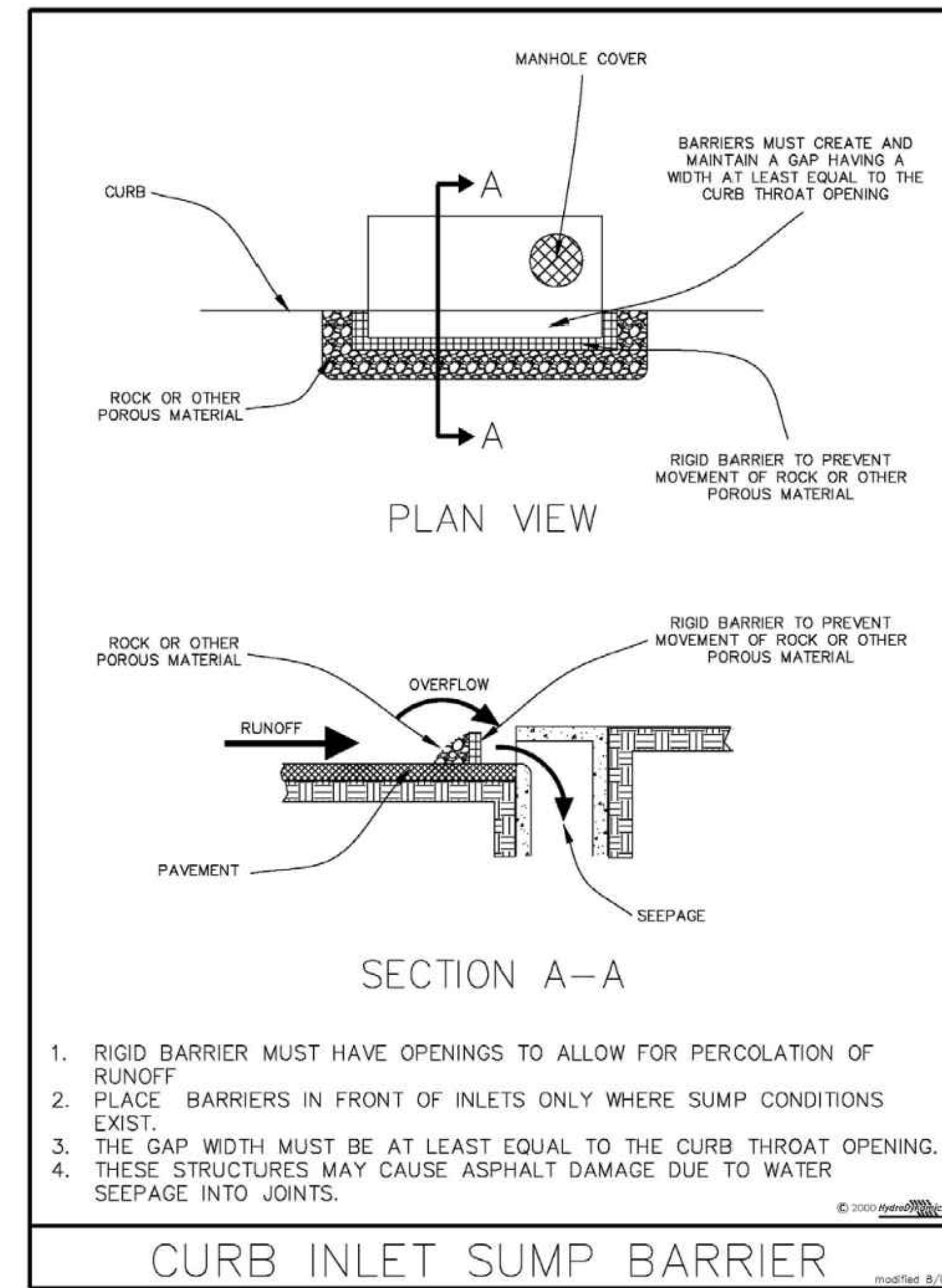
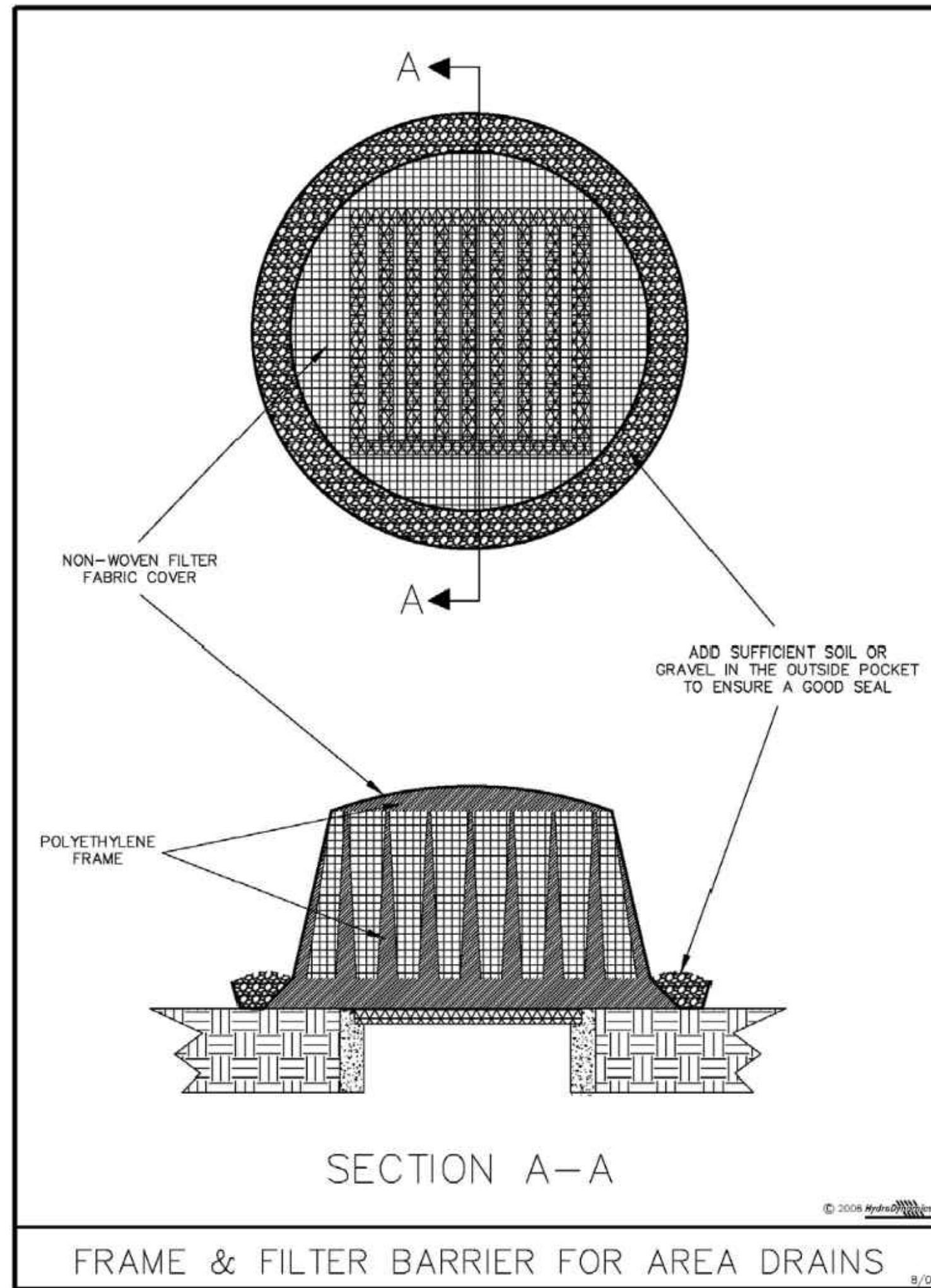
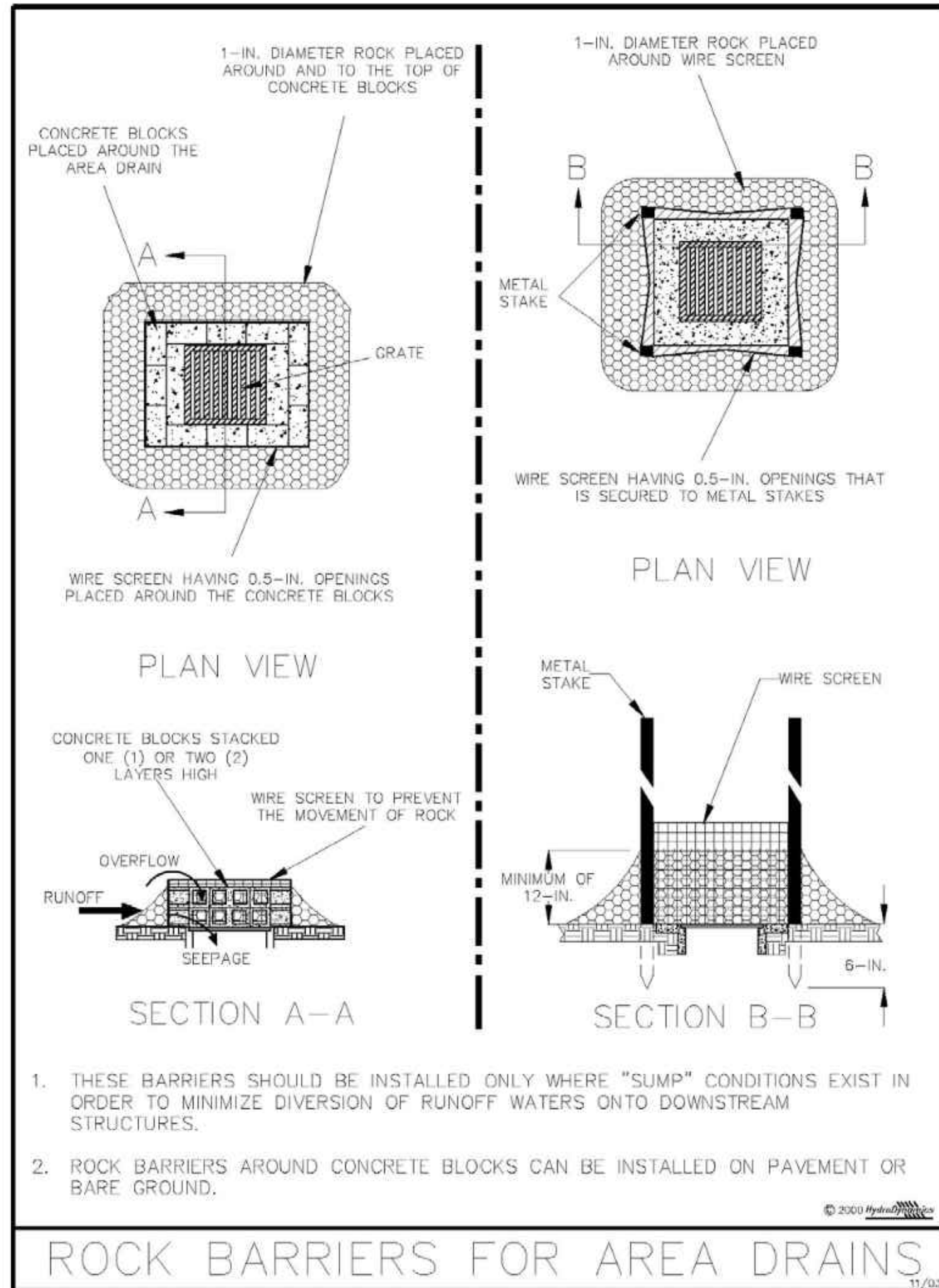
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BANANA RIVER BLVD AND ATLANTIC AVE SEWER

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EROSION DETAILS

E-02 12 OF 18



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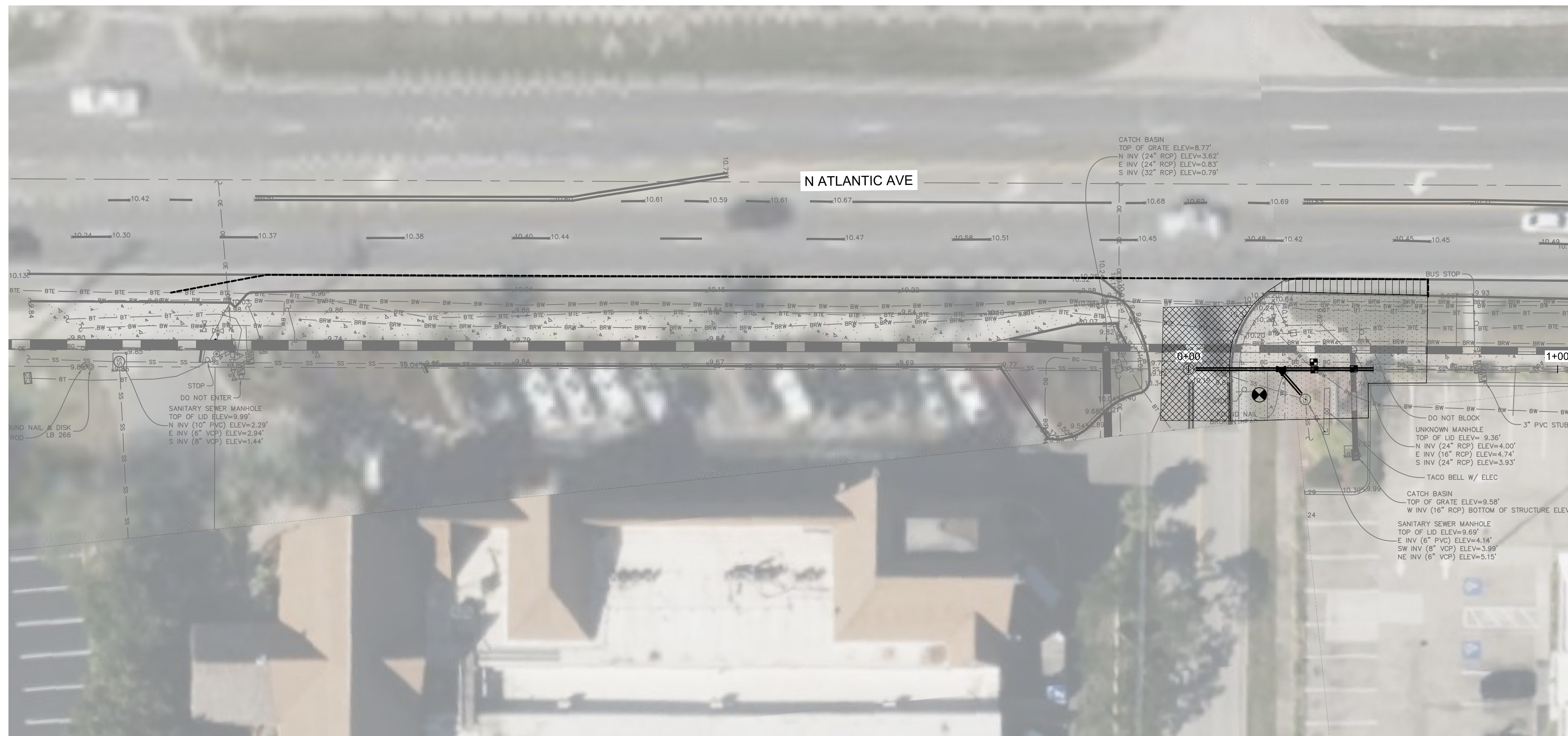
**BANANA RIVER BLVD AND ATLANTIC AVE SEWER**

CIVIL

**MAINTENANCE OF TRAFFIC PLAN**

M-01

13 OF 18



**NOTES:**

- CONTRACTOR TO COORDINATE WITH SPACE COAST AREA TRANSIT (SCAT) ABOUT THE TEMPORARY RELOCATION OF EXISTING BUS STOP
- VARIOUS MESSAGE SIGNS SHALL BE INSTALLED 14 DAYS IN ADVANCE ALERTING VEHICULAR DRIVERS OF THE TIME FRAME FOR THE CLOSURE OF WALKULLA LN.

**LEGEND:**

- WORK ZONE - WORK ON SHOULDER - FDOT INDEX 102-602
- WORK ZONE - WORK BEYOND SHOULDER - FDOT INDEX 102-601 & SIDEWALK CLOSURE - FDOT INDEX 102-660
- WORK ZONE - TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY - FDOT INDEX 102-603
- CHANNELING DEVICES

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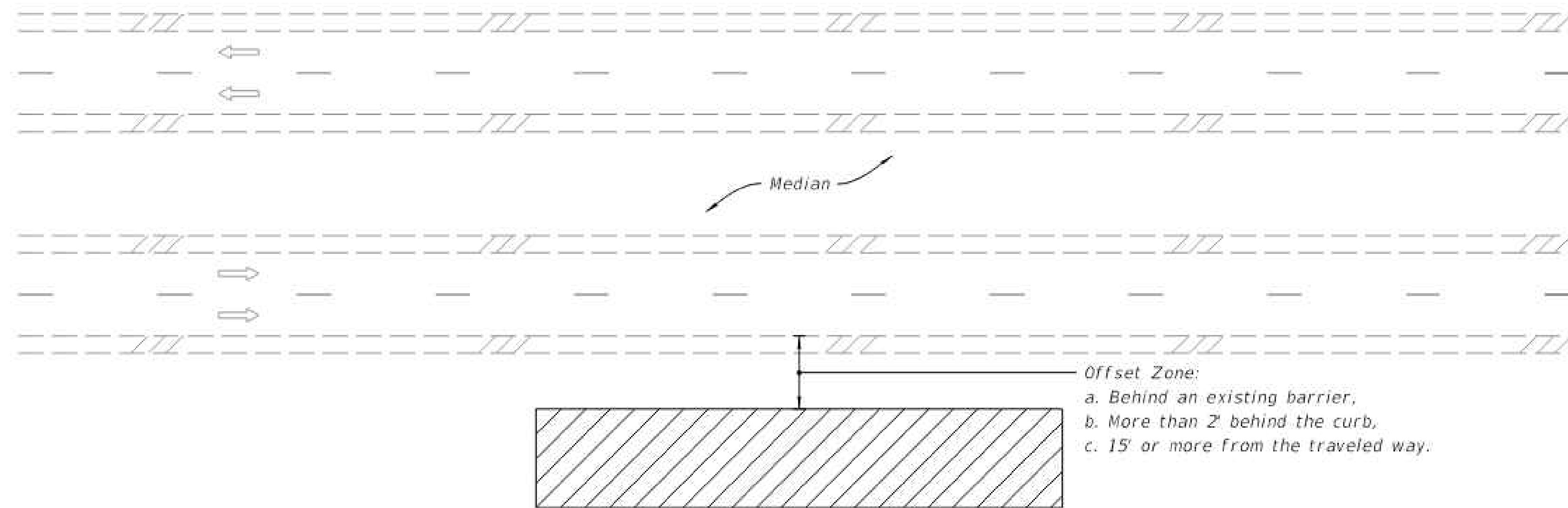


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MULTILANE ROADWAY SHOWN, TWO-LANE ROADWAY SIMILAR

**NOTES:**

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work beyond the shoulder.
2. Use Index 102-602 when the work operation (excluding establishing and terminating the work area) requires that two or more work vehicles cross the Offset Zone in any one hour period.
3. Use Index 102-660 when Work Area encroaches a Sidewalk.

**SYMBOLS:**

- Work Area
- Lane Identification and Direction of Traffic

BANANA RIVER BLVD  
 AND ATLANTIC AVE  
 SEWER

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BANANA RIVER BLVD AND  
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MAINTENANCE OF  
 TRAFFIC DETAILS

M-02

14  
 OF  
 18

FDOT INDEX 102-601 - TWO-LANE AND MULTIWAY ROADWAY, WORK BEYOND THE SHOULDER

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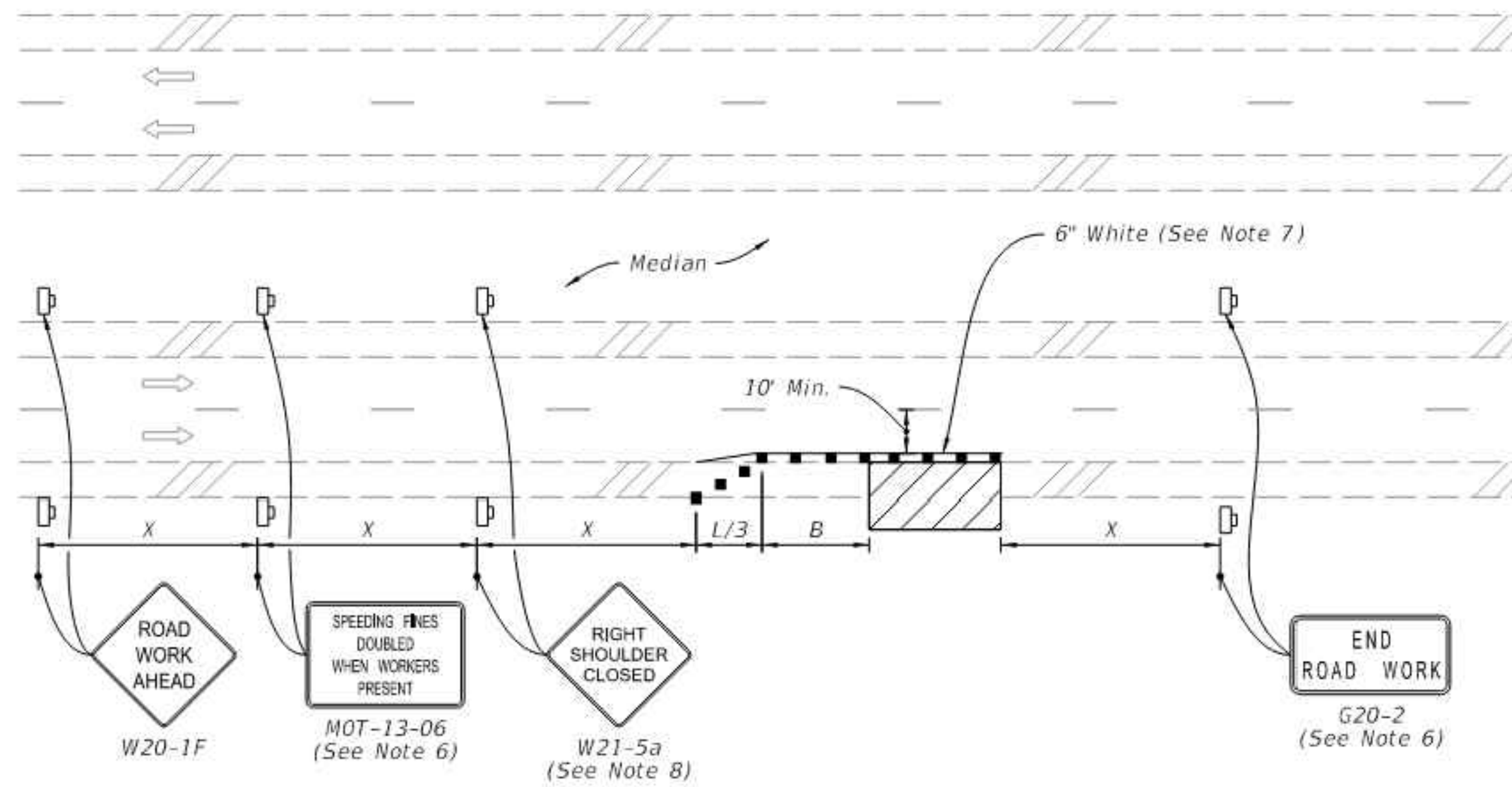
BANANA RIVER BLVD AND ATLANTIC AVE SEWER

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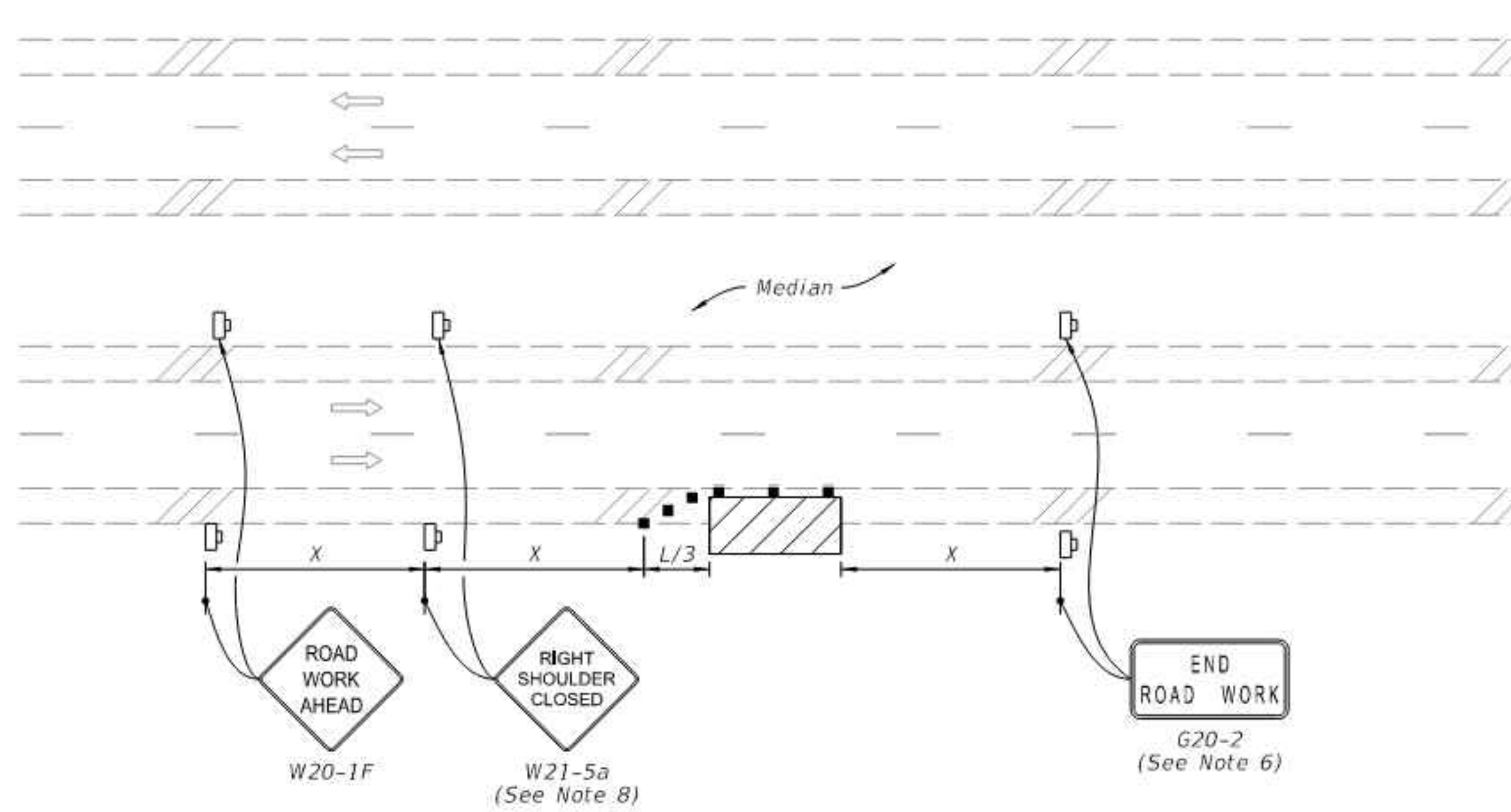
MAINTENANCE OF TRAFFIC DETAILS

M-03

15 OF 18



MULTILANE ROADWAY  
 SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY  
 WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY  
 SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

**SYMBOLS:**

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic

FDOT INDEX 102-602 - TWO-LANE AND MULTILANE, WORK ON THE SHOULDER

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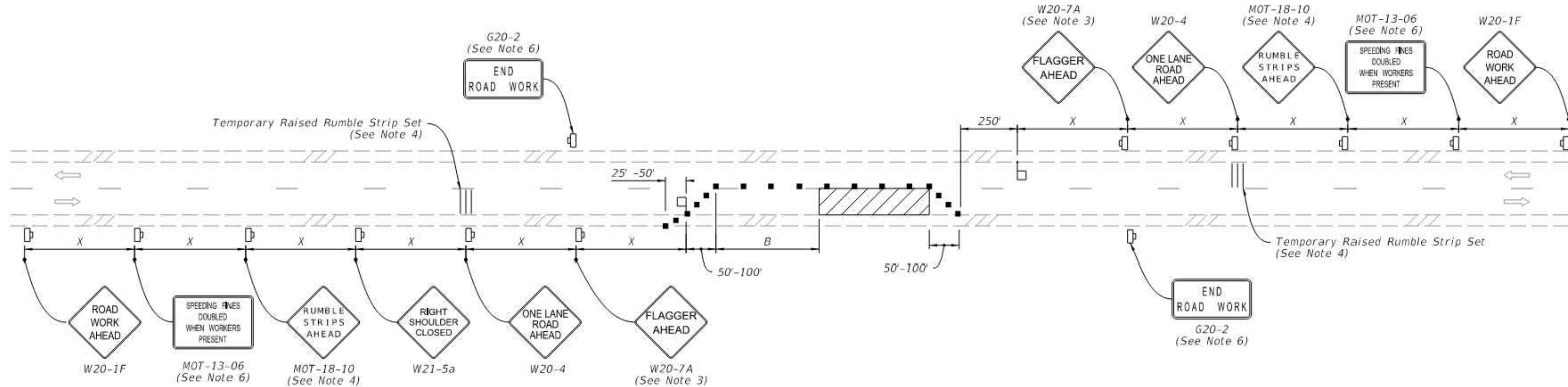
BANANA RIVER BLVD AND ATLANTIC AVE SEWER

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MAINTENANCE OF TRAFFIC DETAILS

M-04

16  
 OF  
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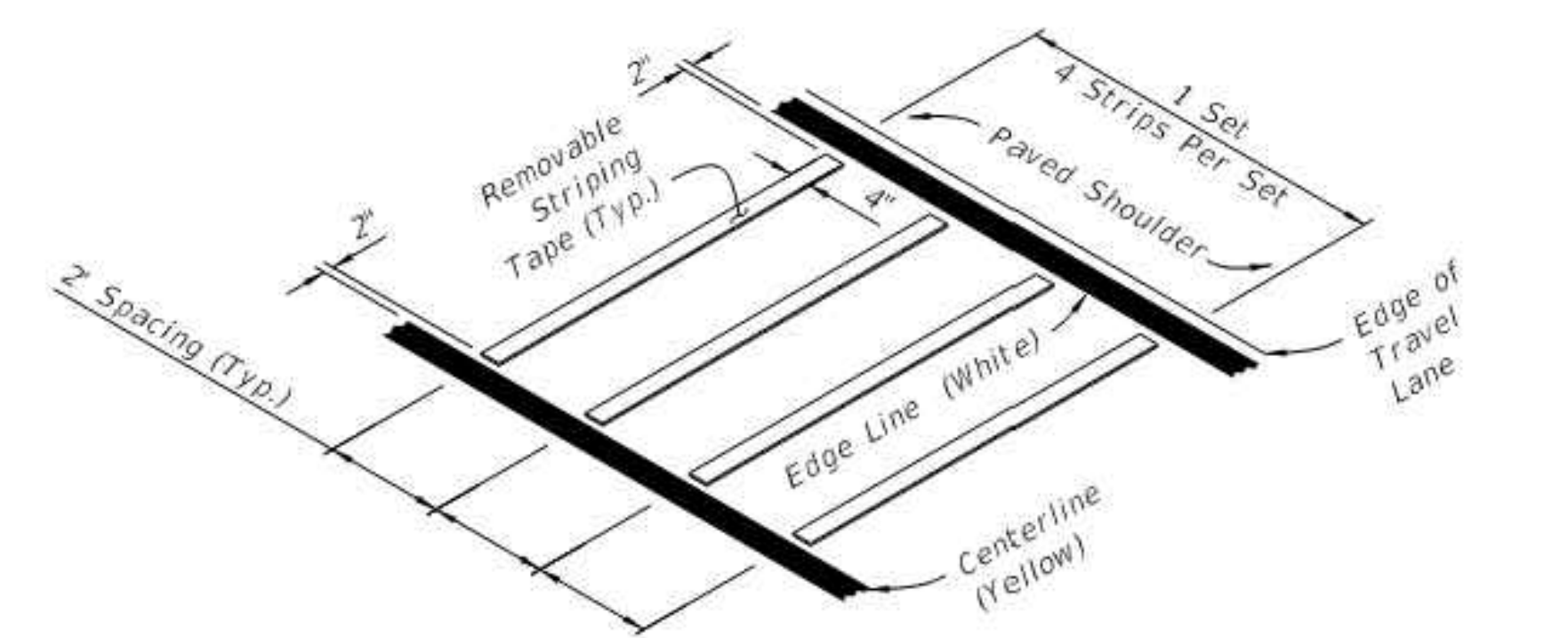


**NOTES:**

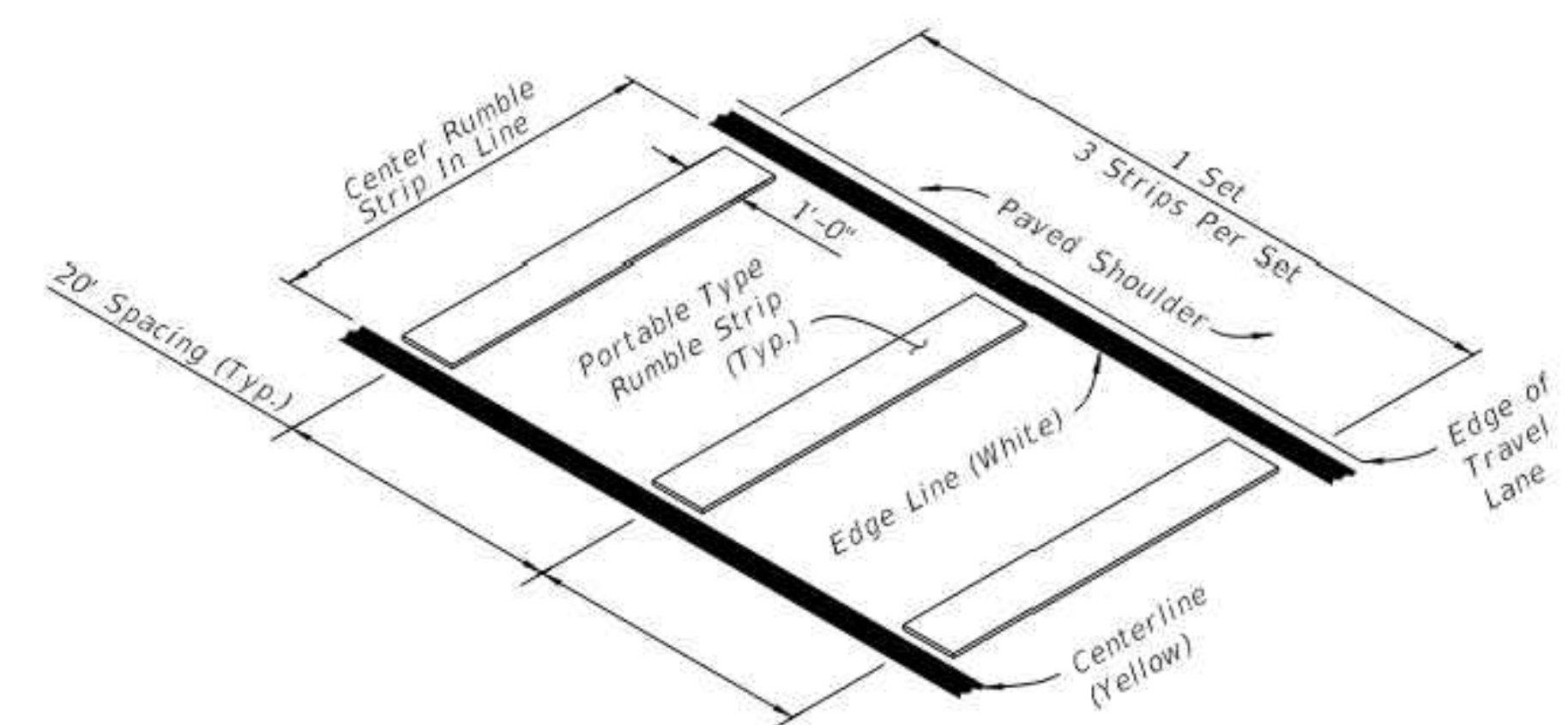
- This Index applies to Two-Lane, Two-Way Roadways with work within the traveled way.
- L = Taper Length  
 B = Buffer Length  
 X = Work Zone Sign Spacing  
 See Index 102-600 for "L", "B", "X" and channelizing device spacing values.
- Optionally, use "Flagger Ahead" sign with symbol (W20-7) instead of "Flagger Ahead" sign with text (W20-7A).
- Use temporary raised rumble strips when the existing posted speed is 55 mph or greater and the work duration is greater than 60 minutes. If temporary raised rumble strips are not used, omit "Rumble Strips Ahead" signs (MOT-18-10) and associated work zone sign spacing.
- Additional one-way control may be provided by the following means:
  - Flag-carrying vehicle
  - Official vehicle
  - Pilot vehicles
  - Traffic signals
- The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign spacing, may be omitted when the work operation will be in place for 24 hours or less.
- Automated Flagger Assistance Devices (AFADs) may be used in accordance with Specification Sections 102, 990 and the APL vendor drawings.
- Railroad Crossings:
  - If an active railroad crossing is located closer to the Work Area than the queue length plus 300 feet, extend the Buffer Space as shown on Sheet 2.
  - If the queuing of vehicles across an active railroad crossing cannot be avoided, provide a uniformed traffic control officer or flagger at the highway-rail grade crossing to prevent vehicles from stopping within the highway-rail grade crossing, even if automatic train warning devices are in place.

**SYMBOLS:**

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Flagger
- Lane Identification and Direction of Traffic



OPTION - 1  
 REMOVABLE STRIPING TYPE



OPTION - 2  
 PORTABLE TYPE

RUMBLE STRIP SETS

FDOT INDEX 102-603 - TWO-LANE, TWO WAY, WORK WITHIN THE TRAVEL WAY

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BANANA RIVER BLVD AND ATLANTIC AVE SEWER

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MAINTENANCE OF TRAFFIC DETAILS

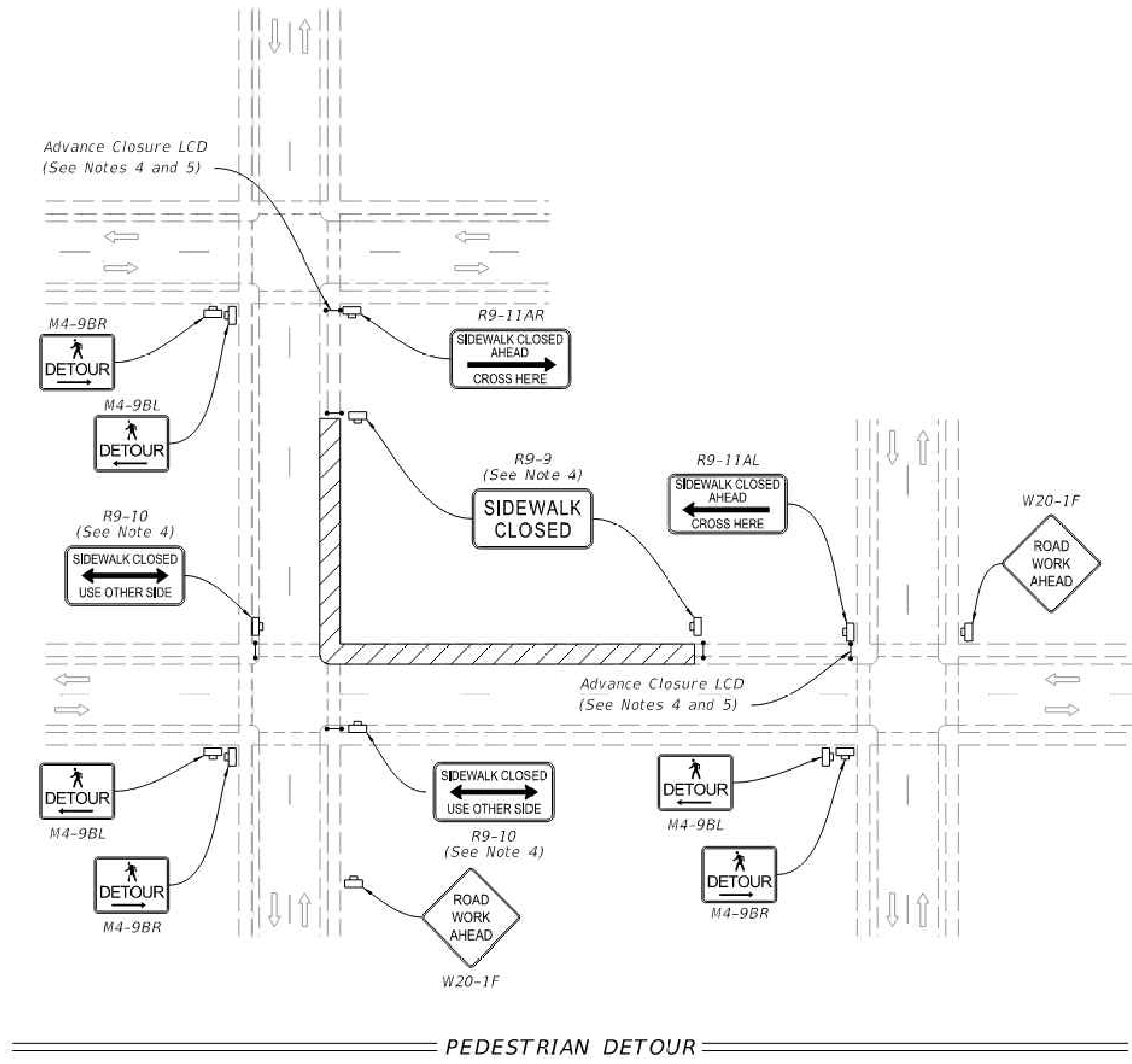
M-05 17 OF 18

**NOTES:**

1. Cover or deactivate pedestrian traffic signal display(s) controlling closed crosswalks.
2. Place pedestrian LCDs across the full width of the closed sidewalk.
3. For post mounted signs located near or adjacent to a sidewalk, maintain a minimum 7' clearance from the bottom of the sign panel to the surface of the sidewalk.
4. "Sidewalk Closed" signs (R9-XX) may be mounted on pedestrian LCDs in accordance with the manufacturer's instructions.
5. Omit the Advance Closure LCD if it blocks access to other pedestrian facilities (e.g., transit stops, residences, or business entrances).

**SYMBOLS:**

- Work Area
- Work Zone Sign
- Pedestrian Longitudinal Channelizing Device (LCD)
- Lane Identification and Direction of Traffic



FDOT INDEX 102-660 - SIDEWALK CLOSURE

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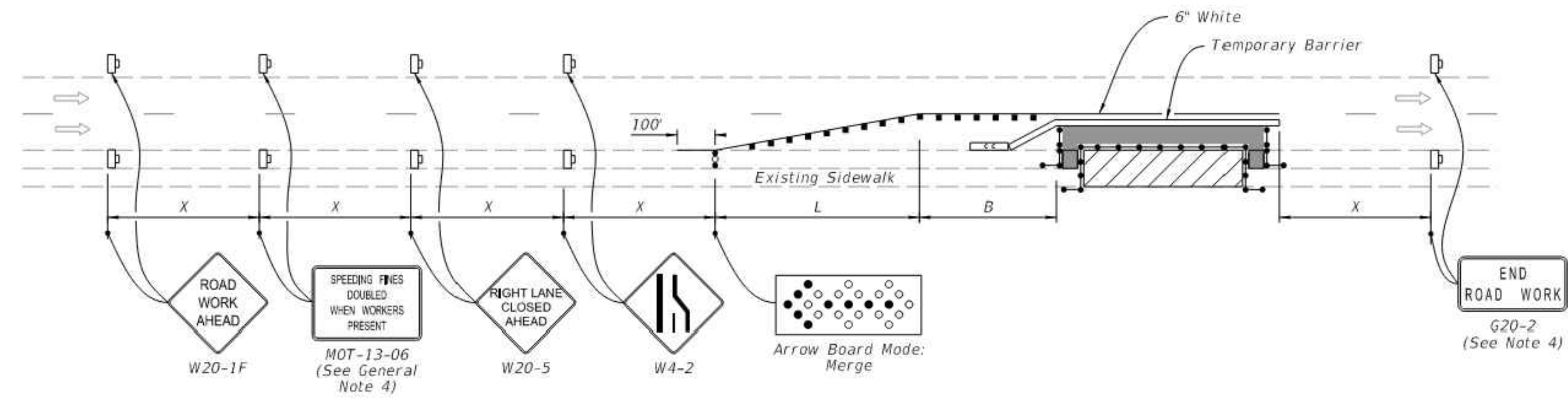
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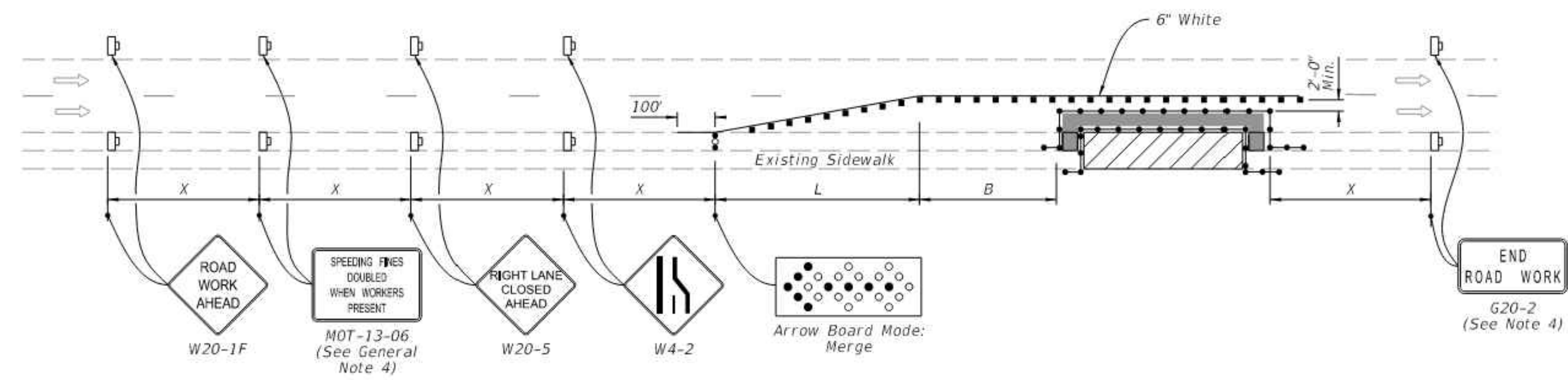
MAINTENANCE OF TRAFFIC DETAILS

M-06

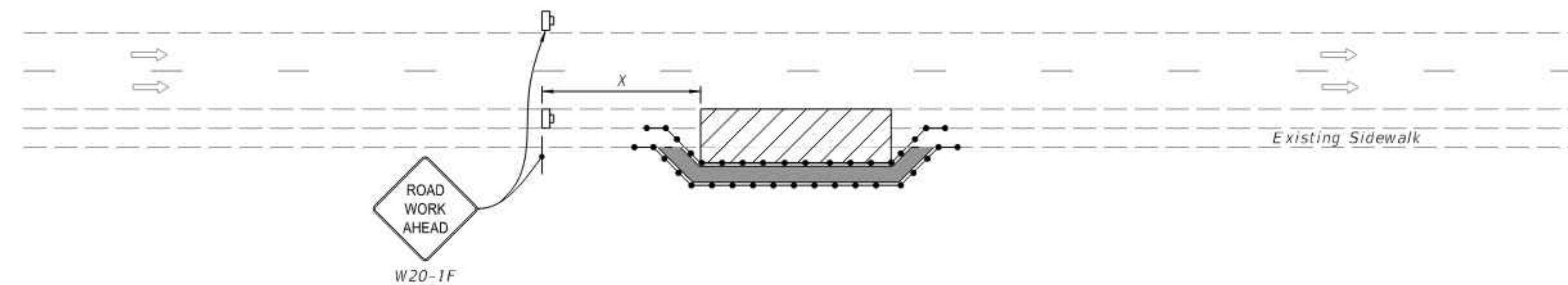
18  
OF  
18



**PEDESTRIAN DIVERSION - OPTION 1**  
 (Temporary Barrier Shown, Low Profile Barrier Similar)



**PEDESTRIAN DIVERSION - OPTION 2**  
 (Work Zone Speed 35 mph or Less)



**PEDESTRIAN SPECIAL DETOUR**

**FDOT INDEX 102-660 - SIDEWALK CLOSURE**

**NOTES:**

- L = Taper Length  
 B = Buffer Length  
 X = Work Zone Sign Distance  
 See Index 102-600 for "L", "B", "X", channelizing device spacing values.
- Provide a 5' wide temporary pedestrian way with a maximum cross-slope of 0.02, except where space restrictions warrant a minimum width of 4'. Provide a 5' x 5' passing space for temporary pedestrian ways less than 5' in width at intervals not to exceed 200'.
- When temporary pedestrian ways require curb ramps, meet the requirements of Index 522-002. Detectable warnings are not required for curb ramps diverting pedestrian traffic into a closed lane.
- The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" signs (G20-2), along with associated work zone sign distances, may be omitted when the work operation will be in place for 24 hours or less.
- Pedestrian Diversion Option 2 may only be used when called for in the Plans or as approved by an Engineer.

**SYMBOLS:**

- Work Area
- Temporary Pedestrian Way
- Channelizing Device (See Index 102-600)
- Pedestrian Longitudinal Channelizing Device (LCD)
- Work Zone Sign
- Arrow Board
- Crash Cushion
- Lane Identification and Direction of Traffic

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(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4