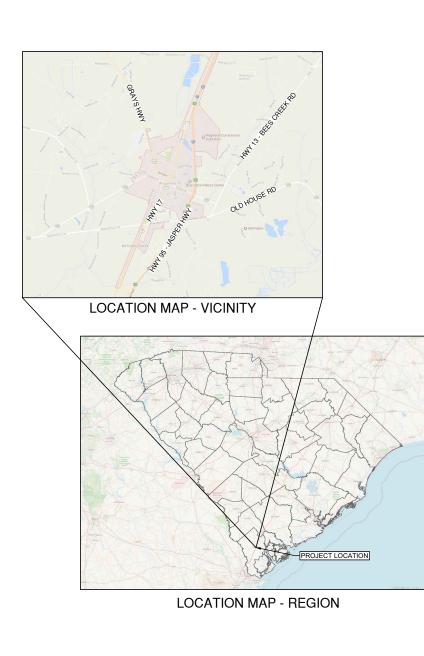
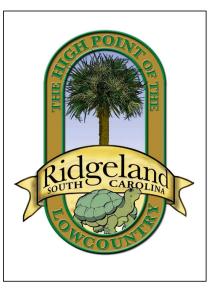
# **CONSTRUCTION DRAWINGS FOR:** TOWN OF RIDGELAND **SEWER RESILIENCY IMPROVEMENTS - GRAVITY** SEWER REHABILITATION

**REQUEST FOR BIDS NO: TOR-2024-07** 





MAYOR JOSEPH N. MALPHRUS, JR

MAYOR PRO TEMPORE TOMMY RHODES

**COUNCIL MEMBERS** 

JOSEPHINE BOYLES **BILL FISHBURNE** LIBBY MALPHRUS

**TOWN ADMINISTRATOR** 

**DENNIS E. AVERKIN** 

PROJECT #: 17-007:043



PREPARED BY

RIA GRANT #R-24-1357

DATE: SEPTEMBER 2024

ISSUE: BID

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NOTE:

IF ARCHEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE PROCEDURES CODIFIED AT 33 CFR 800.13(B) WILL APPLY AND EDA, THE SOUTH CAROLINA STATE HISTORIC PRESERVATION OFFICE, THE MUSCOGEE (CREEK) NATION AND THE CATAWBA INDIAN NATION SHALL BE CONTACTED IMMEDIATELY. ARCHEOLOGICAL MATERIALS CONSIST OF ANY ITEMS, FIFTY YEARS OR OLDER WHICH WERE MADE OR USED BY MAN. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, STONE PROJECTILE POINTS (ARROWHEADS), CERAMIC SHERDS, BRICKS, WORKED WOOD, BONE AND STONE, METAL AND GLASS OBJECTS, AND HUMAN SKELETAL REMAINS.

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# UTILITY SEPARATION NOTES

- UTILITY SEPARATION FROM WATER MAINS SHALL BE IN ACCORDANCE WITH THE TOWN OF RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS. ALL DISTANCES NOTED ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE
- HORIZONTAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE UNDER THE TOWN OF 2. RIDGELAND STANDARD SPECIFICATIONS FOR WATER AND SEWER SYSTEMS SHALL BE A MINIMUM OF TEN FEET WHERE POSSIBLE. THE MINIMUM OF THE HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND SEWER PIPE SHALL BE REDUCED WHERE THE BOTTOM OF THE WATER MAIN IS AT LEAST 18" INCHES ABOVE THE TOP OF THE SEWER AS APPROVED BY THE FNGINEER
- VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER PIPE SHALL BE 18 INCHES. 3. PREFERENCE IS FOR THE WATER MAIN TO BE ABOVE THE OTHER PIPELINE
- FOR UTILITY CROSSINGS WITH WATER MAINS, ONE FULL LENGTH (20 FEET) OF WATER MAIN 4. QUALITY PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. WATER PIPE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE FOR ALL CROSSINGS OF SEWER LINES AND DRAINAGE LINES, REGARDLESS OF CLEARANCE; FOR ALL CROSSINGS OF CREEKS, RIVERS, OR OTHER WATER BODIES; AND FOR WATER MAINS INSTALLED IN CASING. THE CONTRACTOR SHALL VERIFY, RECORD, AND REPORT THE VERTICAL SEPARATION FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE AT THE CROSSING
- NO WATER MAIN SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SANITARY 5. SEWER MANHOLE, A STORM SEWER MANHOLE, OR A STORM SEWER INLET STRUCTURE

## **GENERAL NOTES**

- REFERENCE INDIVIDUAL EXISTING CONDITIONS DRAWINGS FOR ELEVATION AND COORDINATE SYSTEM INFORMATION FOR EACH SITE
- IN ACCORDANCE WITH GENERAL CONDITIONS, IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW THE GROUND SURFACE. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL 3. SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
- STATIONING SHOWN ON DRAWINGS REFERS TO CENTERLINE OF ROAD OR 4 RIGHT-OF-WAY LINE
- ALL PIPE LENGTHS SHOWN ON PLAN AND PROFILES ARE FROM CENTER TO 5. CENTER OF INLETS OR MANHOLES OR ALONG FORCEMAIN OR WATER MAINS
- THE CONTRACTOR SHALL PROVIDE NO LESS THAN A 6 INCH CLEARANCE BETWEEN ALL UTILITIES, OTHER THAN WATER MAINS UNLESS OTHERWISE 6. DIRECTED. NO SPECIAL PAYMENT ALLOWED.
- 7. MINIMUM PIPE COVER SHALL BE 36 INCHES FOR PIPES LESS THAN 12" IN DIAMETER; 48 INCHES FOR PIPES 14" OR LARGER IN DIAMETER; AND 36 INCHES BELOW ANY SCDOT ROAD ELEVATION.
- CONTRACTOR SHALL EMPLOY A LAND SURVEYOR, REGISTERED IN THE 8 STATE OF SOUTH CAROLINA, TO REFERENCE AND RESTORE PROPERTY CORNERS AND LANDMARKS WHICH MAY BE DISTURBED BY CONSTRUCTION.
- EXISTING UTILITIES HAVE BEEN SHOWN FROM THE BEST AVAILABLE 9 INFORMATION. CONTRACTOR SHALL NOTIFY THE PROPER UTILITY REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO COMMENCING EXCAVATION NEAR UTILITY. CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL SUCH UTILITIES IN THE PATH OF CONSTRUCTION. THE LOCATION SHALL BE MADE WELL IN ADVANCE OF CONSTRUCTION SO THAT CONFLICTS IN CONSTRUCTION MAY BE RESOLVED.
- 10. THE DEPARTMENT OF TRANSPORTATION IS TO BE NOTIFIED 48 HOURS IN ADVANCE AND RAILROAD COMPANY 7 DAYS IN ADVANCE OF CONSTRUCTION WITHIN THEIR RESPECTIVE RIGHT OF WAY
- UTILITY CONTACTS 11.
  - SPECTRUM (833-267-6094) CENTURYLINK - (866-642-0444) DOMINION ENERGY SOUTH CÁROLINA - CUSTOMER SERVICE MAIN LINE (1-800-251-7234)
  - PALMETTO ELECTRIC COOPERATIVE RIDGELAND OFFICE (843-726-5551) TOWN OF RIDGELAND WATER & SEWER DEPARTMENT - TY SHAFFER (843-226-0312)
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON 12. LIMITED INVESTIGATION TECHNOLOGIES AND SHOULD BE CONSIDERED APPROXIMATE ONLY
- 13. CONTACT SOUTH CAROLINA 811 AS REQUIRED BY SC CODE § 58-36-120 (2018).
- CONTRACTOR TO LOCATE, PROTECT AND SUPPORT ALL WATER, SEWER, 14. GAS TELECOMMUNICATIONS AND ELECTRIC UTILITIES ENCOUNTERED DURING CONSTRUCTION
- IF THE CONTRACTOR ENCOUNTERS GROUNDWATER, THE CONTRACTOR 15. SHALL BE RESPONSIBLE FOR UTILIZING DEWATERING SYSTEM(S) TO REMOVE WATER FROM THE EXCAVATIONS. PRIOR TO BEGINNING ANY DEWATERING, THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS LISTED IN THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL REGULATION 61-113. GROUNDWATER USE AND REPORTING: AND REGULATION 61-9. WATER POLLUTION CONTROL PERMITS, BEFORE ANY DEWATERING CAN BEGIN, CONTRACTOR SHALL SECURE THE SCDHEC GENERAL PERMIT FOR THE DISCHARGE OF GROUND WATER.

- 16. SPECIFICATIONS AND DETAILS.
- 17. DETOUR SIGNS AS NECESSARY
- 18.
- 19. ANY SOLVENT NOTED.
- 20. JOINT
- 21. MARKER PAIR
- 22.
- 23.
- 24.
- 25. CONSTRUCTION.
- 26.

27.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS DO NOT STAND BY THEMSELVES. ALSO TO BE INCLUDED ARE THE

CONTRACTOR TO FURNISH DETOUR AND CONSTRUCTION SIGNING AND LIGHTING AS REQUIRED IN SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT TO THE MANUAL ON TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND OTHER SPECIAL ADVANCED

ALL POTABLE WATER PIPE SHALL BE NSFPW RATED.

IF SOLVENT CONTAMINATION IS FOUND IN THE PIPE TRENCH, WORK SHALL BE STOPPED AND THE PROPER AUTHORITIES NOTIFIED. WITH APPROVAL OF THE PERMITTING AGENCY, DUCTILE IRON PIPE, FITTINGS AND SOLVENT RESISTANT GASKET MATERIAL SHALL BE USED IN THE CONTAMINATED AREA. THE DUCTILE IRON PIPE SHALL EXTEND AT LEAST 100 FEET BEYOND

PIPE JOINT DEFLECTION, WHERE ALLOWED BY EXCEPTION, SHALL MATCH THE MANUFACTURER'S RECOMMENDATION FOR THE SIZE AND TYPE OF

ALL PIPELINES, WATERMAINS, FORMAIN, AND SERVICE LATERALS SHALL HAVE A 12 GAUGE SOLID COPPER SINGLE STRAND TRACER WIRE TAPED ALONG THE TOP OF THE PIPE. THE TRACER WIRE SHALL BE BROUGHT TO SURFACE AT EACH LOCATOR POST ON FORCE MAINS AND ACCESSIBLE FROM THE SURFACE AT ALL VALVE BOXED AND LOCATOR POSTS. AT LOCATIONS TRACER WIRE SURFACES BETWEEN VALVES. REGULAR VALVE BOX WITH PLAIN LID AND COLLAR SHALL BE INSTALLED BETWEEN A PIPELINE

CONTRACTOR SHALL CONTACT EACH PROPERTY OWNER ALONG THE ROUTE OF NEW PIPING AND CONSTRUCTION AND LOCATE ANY EXISTING IRRIGATION/SPRINKLER SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT OF ANY DAMAGED IRRIGATION/SPRINKLER SYSTEMS ON PRIVATE PROPERTY OR CITY R.O.W'S DUE TO WORK BEING PERFORMED BY CONTRACTOR AND/OR SUB-CONTRACTORS

THE CONTRACTOR SHALL SUBMIT A SHORING PLAN FOR EXCAVATIONS ADJACENT TO BUILDINGS, ADJACENT TO RIGHT-OF-WAY, OR ANY OTHER EXCAVATIONS DEEPER THAN 7 FEET. THE SHORING PLAN SHALL INCLUDE SHORING SYSTEM DESIGN CALCULATIONS AND DETAILS SIGNED AND SEALED BY A SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER.

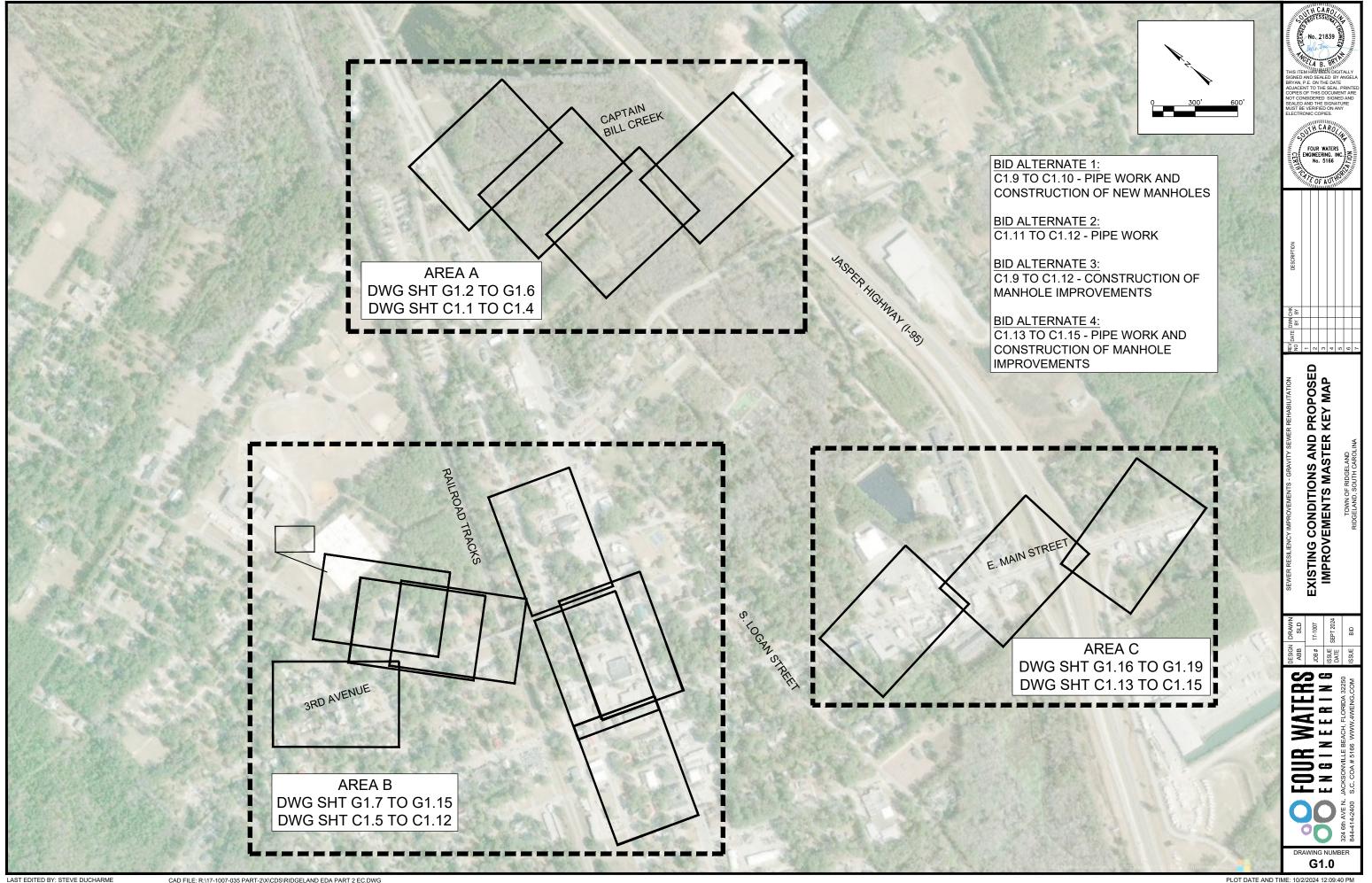
ALL PROTECTED TREES SHALL BE PROTECTED FROM INJURY DURING ANY LAND CLEARING OR CONSTRUCTION. PRIOR TO ANY LAND CLEARING OR CONSTRUCTION OPERATIONS, TEMPORARY BARRIERS SHALL BE INSTALLED AT THE DRIP LINE OF ALL PROTECTED TREES IN ACCORDANCE WITH JASPER COUNTY ZONING ORDINANCE § 13:5 (2).

TREE BARRICADE APPROVAL OBTAIN TOWN APPROVAL OF TREE BARRICADES BEFORE BEGINNING CLEARING OPERATIONS OR ANY

SCDOT RIGHTS-OF-WAY PERMITS ARE REQUIRED FOR THIS PROJECT

CONSTRUCTION ACTIVITIES DISTURBING ANY LAND AREA WITHIN JASPER COUNTY SHALL REQUIRE NOTIFICATION TO SCDHEC PRIOR TO CONSTRUCTION NOTIFICATION REQUIREMENTS AND/OR NPDES PERMIT REQUIREMENTS VARY BASED UPON LAND DISTURBANCE AREA AND PROXIMITY TO A COASTAL RECEIVING WATER BODY. CONTRACTOR SHALL SUBMIT AN NOI TO SCDHEC PRIOR TO CONSTRUCTION





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### GENERAL NOTES:

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.
- 2. THE CONTRACTOR SHALL PROTECT ALL BENCH MARKS AND MONUMENTS FROM DAMAGE AND SHALL ESTABLISH OFFSET POINTS AS REQUIRED FOR THIS WORK. THE CONTRACTOR IS RESPONSIBLE FOR THE LAYOUT OF ALL SCHEDULED IMPROVEMENTS AS SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION ACTIVITIES AND NOTIFYING THE TOWN ENGINEER OF 3. POTENTIAL CONFLICTS. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY MARK-OUT SERVICE PROVIDER PRIOR TO COMMENCING WORK.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY EXISTING ABOVEGROUND AND UNDERGROUND UTILITIES, CONDUITS STRUCTURES, EQUIPMENT, FOUNDATIONS, PIPE, ETC, AS NECESSARY TO COMPLETE THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE OWNER'S OF THE UTILITY 72 HOURS PRIOR TO STARTING WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. VARIOUS UTILITIES MAY NEED TO BE RESET BY THE AFFECTED UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE UTILITY COMPANY TO AVOID DELAYS. NO EXTENSION OF TIME WILL BE PROVIDE DUE TO THE LACK OF COORDINATION BY THE CONTRACTOR. THE CONTRACTOR SHALL PERFORM TEST PITS WHERE EXISTING UTILITIES ARE TO BE CROSSED. TEST PIT INFORMATION SHALL BE GIVEN TO THE TOWN ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID CONFLICTS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS WITHIN SCDOT AND TOWN R.O.W.'S AND EASEMENTS. ALL SURVEY LAYOUT VERIFYING THE EXACT LOCATION OF THE R.O.W.'S SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS FOR SAME SHALL BE INCLUDED WITHIN THE VARIOUS BID ITEMS.
- THE CONTRACTOR SHALL TAKE CARE IN MAINTAINING ALL LANDSCAPING AND YARD STRUCTURES WITHIN THE CONSTRUCTION LIMITS. WHEN RELOCATION IS 6. NECESSARY OR WHERE ANY DAMAGE IS DONE TO SAID ITEMS THEY SHALL BE RESTORED BY THE CONTRACTOR, AT HIS EXPENSE, TO THE SATISFACTION OF THE TOWN ENGINEER.
- 7. ANY CONCRETE STRUCTURE, DRIVEWAY, WALKWAY, OR CURB WHICH IS NOT SHOWN, DIRECTED, OR MARKED OUT BY THE ENGINEER TO BE REPLACED, BUT IS REMOVED. MISALIGNED OR DAMAGED AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR PER SCDOT STANDARDS AT NO ADDITIONAL COSTS TO THE TOWN.
- 8. THE CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE AWAY FROM RESIDENCES AND ALONG ROAD GUTTERS IS MAINTAINED AT ALL LOCATIONS DISTURBED WITH IN THE PROJECT LIMITS.
- IF IT SHALL BECOME ABSOLUTELY NECESSARY TO PERFORM WORK AT NIGHT, THE TOWN ENGINEER SHALL BE INFORMED IN ADVANCE AND APPROVAL PROVIDED. GOOD LIGHTING AND ALL OTHER NECESSARY FACILITIES FOR PROPERLY CARRYING OUT AND INSPECTING THE WORK SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL STATE AND LOCAL REGULATIONS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED.
- 10. OPEN TRENCHES SHALL BE KEPT TO A MINIMUM. NO EXCAVATION AREAS ARE TO REMAIN OPEN OVERNIGHT. BITUMINOUS STABILIZED BASE COURSE SHALL BE PLACED IN ALL TRENCH AREAS WITHIN THE ROADWAY AT THE END OF EACH DAYS WORK.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL MATERIALS EXCAVATED OF WHATEVER NATURE AT HIS OWN EXPENSE. THE TOWN IS NOT OBLIGATED TO SUPPLY A DISPOSAL SITE. THE CONTRACTOR CAN NOT DEPOSIT ANY OF THE EXCESS MATERIALS WITHIN TOWN LIMITS WITHOUT THE EXPRESS PERMISSION OF THE TOWN ENGINEER. MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH ALL STATE REGULATIONS REGARDING SAME.
- 12. ALL STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND DETAILS.
- 13. PROTECTION OF EXISTING TREES WITHIN THE LIMITS OF DISTURBANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE TOWN ENGINEER SHALL DETERMINE IN THE FIELD WHICH TREES REQUIRE TREE PROTECTION. NO CONSTRUCTION EQUIPMENT OR SUPPLIES SHALL BE STOCKPILED OR STORED WITHIN THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
- 14. ALL PROPERTY CORNERS OR MONUMENTS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY A SOUTH CAROLINA LICENSED LAND SURVEYOR, AT NO ADDITIONAL COST TO THE TOWN.
- 15. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO MAINTAIN DUST CONTROL AS REQUIRED PER THE EROSION AND SEDIMENTATION DOCUMENTATION AND NPDES PERMIT FOR THE PROJECT. ALL VEHICLES SHALL BE CLEAN AND ALL ROADWAYS SHALL BE MAINTAINED AS DIRECTED BY THE TOWN ENGINEER AND SCDOT.
- ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE SCOOT STANDARDS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PAVEMENT MARKINGS. CONTRACTOR SHALL NOTIFY TOWN ENGINEER AND SCDOT WHEN TRAFFIC STRIPES AND PAVEMENT MARKINGS HAVE BEEN LAID OUT PRIOR TO PAINTING. SCDOT WILL INSPECT AND APPROVE LAYOUT PRIOR TO CONTRACTOR PAINTING TRAFFIC STRIPES AND PAVEMENT MARKINGS.
- 17. THE CONTRACTOR SHALL PERFORM ONLY THE AMOUNT OF WORK WHICH CAN BE COMPLETED THE SAME DAY. THE ENTIRE ROADWAY SHALL BE OPENED TO TRAFFIC AFTER WORK HOURS UNLESS APPROVED BY TOWN AND SCDOT. SCDOT TEMPORARY PAVEMENT OR APPROVED SURFACE SHALL BE PLACED IN CONSTRUCTION AREAS TO PROVIDE A SMOOTH, SAFE SURFACE FOR VEHICULAR TRAFFIC. THE COST FOR TEMPORARY PAVEMENT SHALL BE INCLUDED IN UNIT PRICE BID FOR VARIOUS CONSTRUCTION ITEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION STAKEOUT. OFFSET LINES WITH STAKES SHALL BE SET AT APPROPRIATE INTERVALS TO 18. FACILITATE CONSTRUCTION. CUT SHEETS SHALL BE SUBMITTED FOR APPROVAL TO THE TOWN ENGINEER AND TO THE WORK CREWS AT LEAST 5 DAYS PRIOR TO CONSTRUCTION.
- 19. ALL EXISTING STRUCTURES AND ALL UNDERGROUND STRUCTURES ARE TO BE REMOVED IN ACCORDANCE WITH STATE REGULATIONS.
- 20. THE CONTRACTOR SHALL NOTIFY THE TOWN ENGINEER IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREIN.
- 21. WORK WITHIN SCDOT ROW SHALL BE CONDUCTED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE NPDES PERMIT(S) ISSUED TO SCDOT TO GOVERN THE DISCHARGE OF STORM WATER AND NON-STORM STORM WATER FROM ITS PROPERTIES AND PER THE NPDES PERMIT FOR THE PROJECT
- THESE GENERAL NOTES SHALL APPLY FOR THE ENTIRE PROJECT.

#### SPECIAL NOTE

\*HORIZONTAL DATUM IS NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES \*VERTICAL DATUM IN NAVD 88  $\end{tabular}$ \*SEE NOTE #7 BELOW

THE FOLLOWING INFORMATION APPLIES TO DRAWINGS G1.2-G1.6 AND C1.1-C1.4

#### SURVEY NOTES

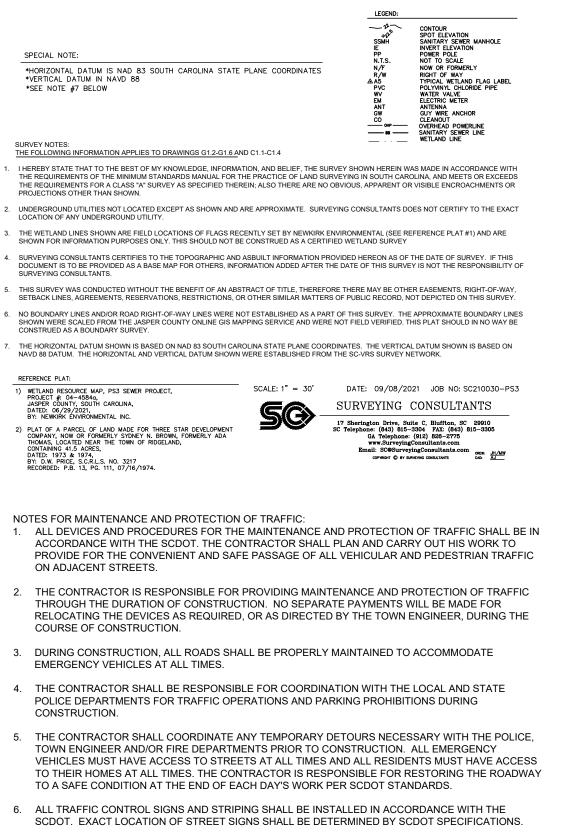
PROJECTIONS OTHER THAN SHOWN.

- I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS
- 2. UNDERGROUND UTILITIES NOT LOCATED EXCEPT AS SHOWN AND ARE APPROXIMATE. SURVEYING CONSULTANTS DOES NOT CERTIFY TO THE EXACT LOCATION OF ANY UNDERGROUND UTILITY
- THE WETLAND LINES SHOWN ARE FIELD LOCATIONS OF FLAGS RECENTLY SET BY NEWKIRK ENVIRONMENTAL (SEE REFERENCE PLAT #1) AND ARE SHOWN FOR INFORMATION PURPOSES ONLY. THIS SHOULD NOT BE CONSTRUED AS A CERTIFIED WETLAND SURVEY
- DOCUMENT IS TO BE PROVIDED AS A BASE MAP FOR OTHERS. INFORMATION ADDED AFTER THE DATE OF THIS SURVEY IS NOT THE RESPONSIBILITY OF SURVEYING CONSULTANTS.
- 5. THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. THEREFORE THERE MAY BE OTHER EASEMENTS, RIGHT-OF-WAY SETBACK LINES, AGREEMENTS, RESERVATIONS, RESTRICTIONS, OR OTHER SIMILAR MATTERS OF PUBLIC RECORD, NOT DEPICTED ON THIS SURVEY.
- SHOWN WERE SCALED FROM THE JASPER COUNTY ONLINE GIS MAPPING SERVICE AND WERE NOT FIELD VERIFIED. THIS PLAT SHOULD IN NO WAY BE CONSTRUED AS A BOUNDARY SURVEY.
- THE HORIZONTAL DATUM SHOWN IS BASED ON NAD 83 SOUTH CAROLINA STATE PLANE COORDINATES. THE VERTICAL DATUM SHOWN IS BASED ON NAVD 88 DATUM. THE HORIZONTAL AND VERTICAL DATUM SHOWN WERE ESTABLISHED FROM THE SC-VRS SURVEY NETWORK.

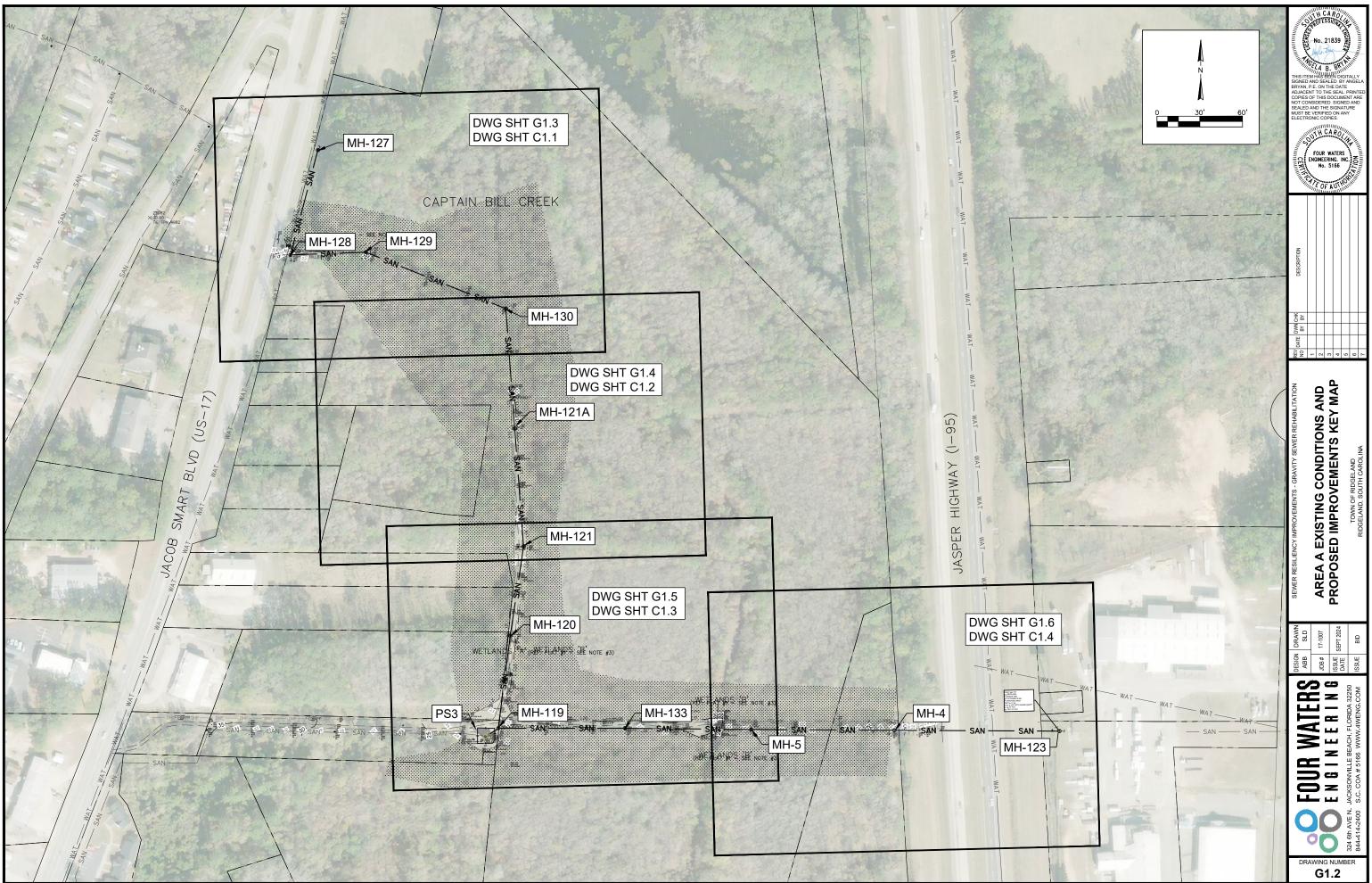
#### REFERENCE PLAT:

- WETLAND RESOURCE MAP, PS3 SEWER PROJECT, PROJECT #: 04-4584o, JASPER COUNTY, SOUTH CAROLINA, DATED: 06/29/2021, BY. NEWKIKE KUVIRONMENTAL INC.
- 2) PLAT OF A PARCEL OF LAND MADE FOR THREE STAR DEVELOPMENT COMPANY, NOW OR FORMERLY SYDNEY N. BROWN, FORMERLY ADA THOMAS, LOCATED NARE THE TOWN OF RIDGELAND, CONTAINING 41.5 ACRES, DATED. 1976. 1974, BOLD 1976. 1974, DECOMPEL: P.B. 15, PG. 111, 07/16/1974.
- NOTES FOR MAINTENANCE AND PROTECTION OF TRAFFIC:
  - ACCORDANCE WITH THE SCDOT. THE CONTRACTOR SHALL PLAN AND CARRY OUT HIS WORK TO PROVIDE FOR THE CONVENIENT AND SAFE PASSAGE OF ALL VEHICULAR AND PEDESTRIAN TRAFFIC ON ADJACENT STREETS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE AND PROTECTION OF TRAFFIC THROUGH THE DURATION OF CONSTRUCTION. NO SEPARATE PAYMENTS WILL BE MADE FOR RELOCATING THE DEVICES AS REQUIRED, OR AS DIRECTED BY THE TOWN ENGINEER, DURING THE COURSE OF CONSTRUCTION.
- DURING CONSTRUCTION, ALL ROADS SHALL BE PROPERLY MAINTAINED TO ACCOMMODATE 3 EMERGENCY VEHICLES AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE LOCAL AND STATE 4. POLICE DEPARTMENTS FOR TRAFFIC OPERATIONS AND PARKING PROHIBITIONS DURING CONSTRUCTION.
- 5. TOWN ENGINEER AND/OR FIRE DEPARTMENTS PRIOR TO CONSTRUCTION. ALL EMERGENCY TO A SAFE CONDITION AT THE END OF EACH DAY'S WORK PER SCDOT STANDARDS.
- ALL TRAFFIC CONTROL SIGNS AND STRIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE 6. SCDOT. EXACT LOCATION OF STREET SIGNS SHALL BE DETERMINED BY SCDOT SPECIFICATIONS.

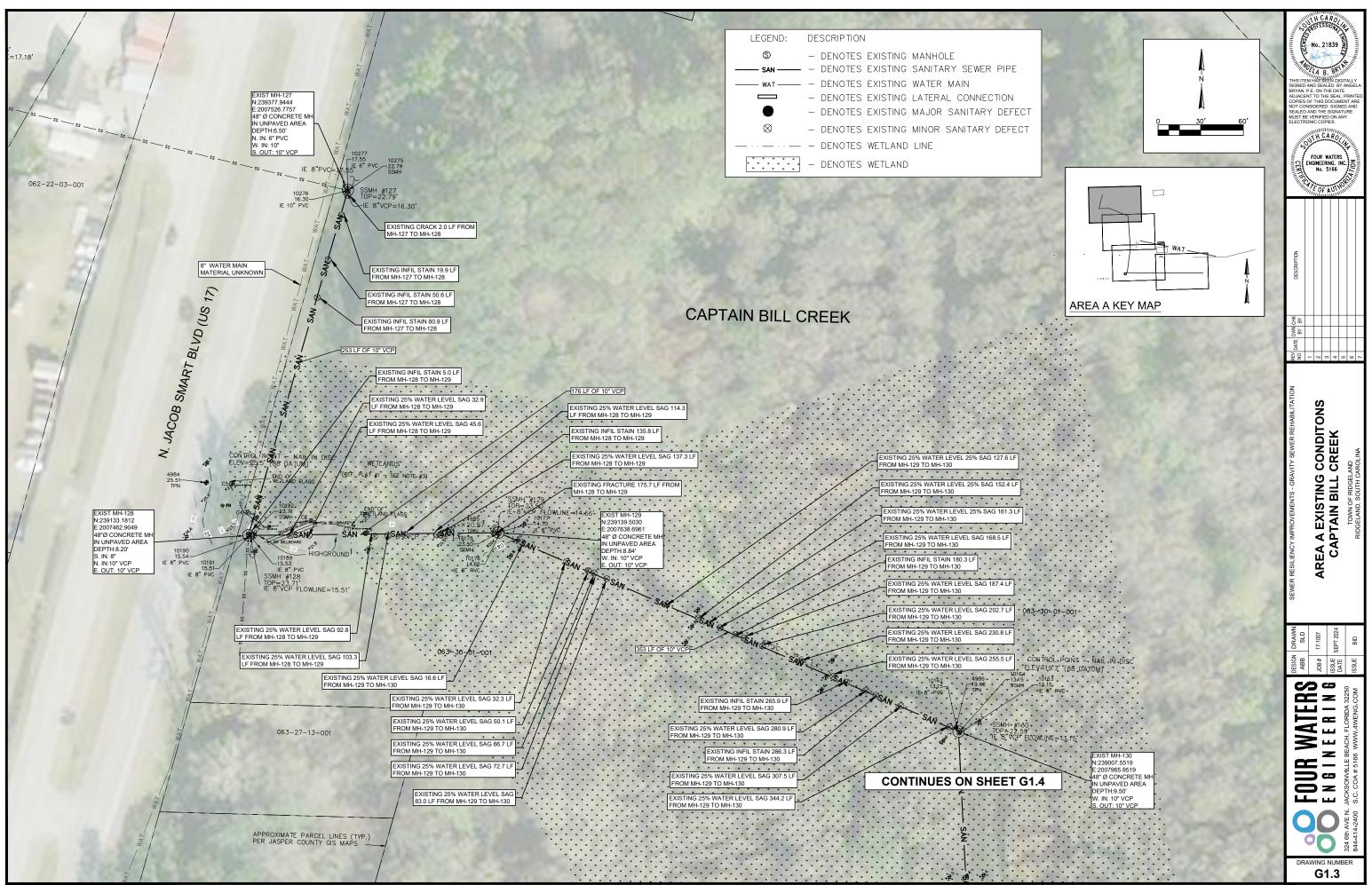




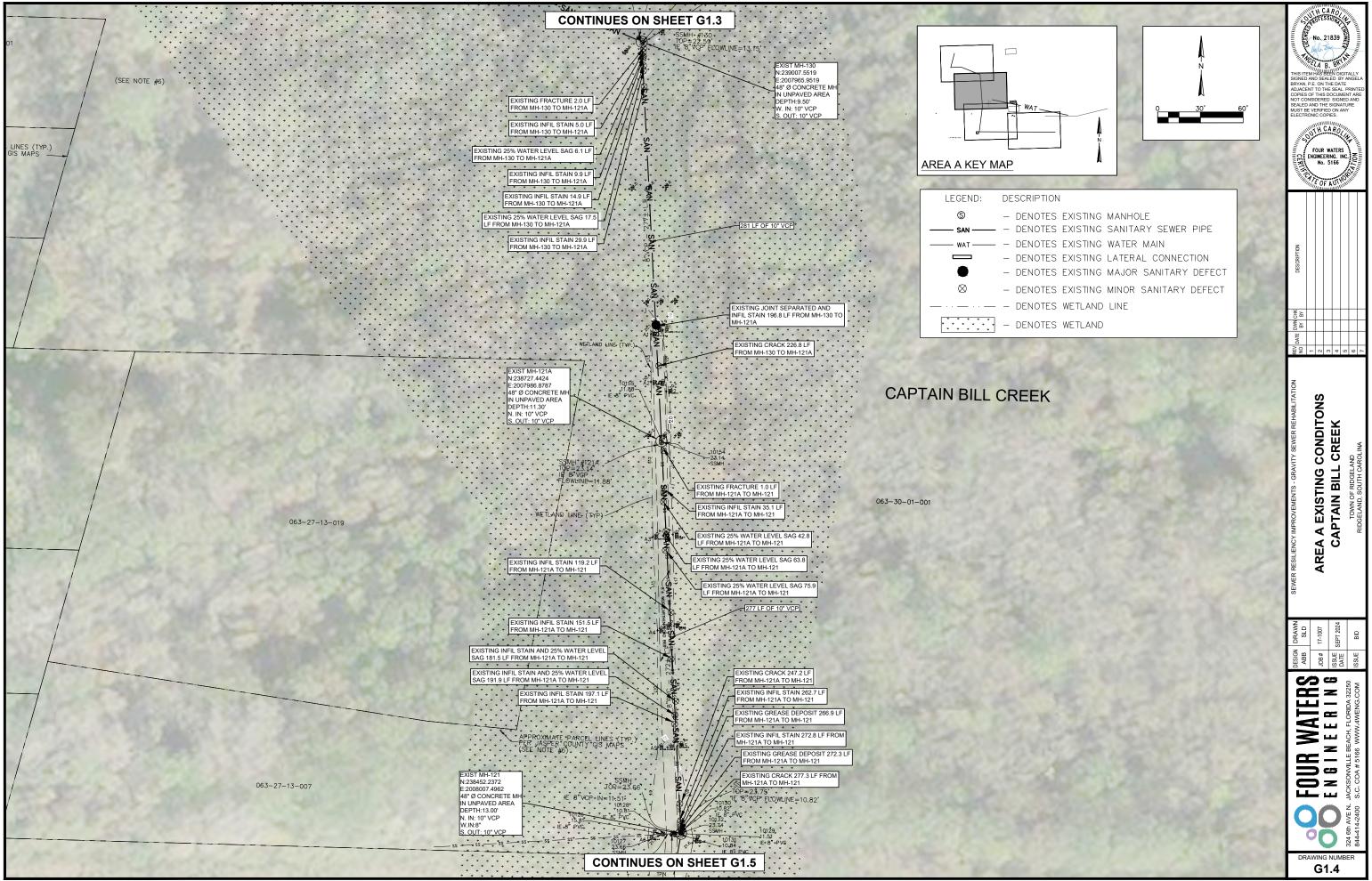




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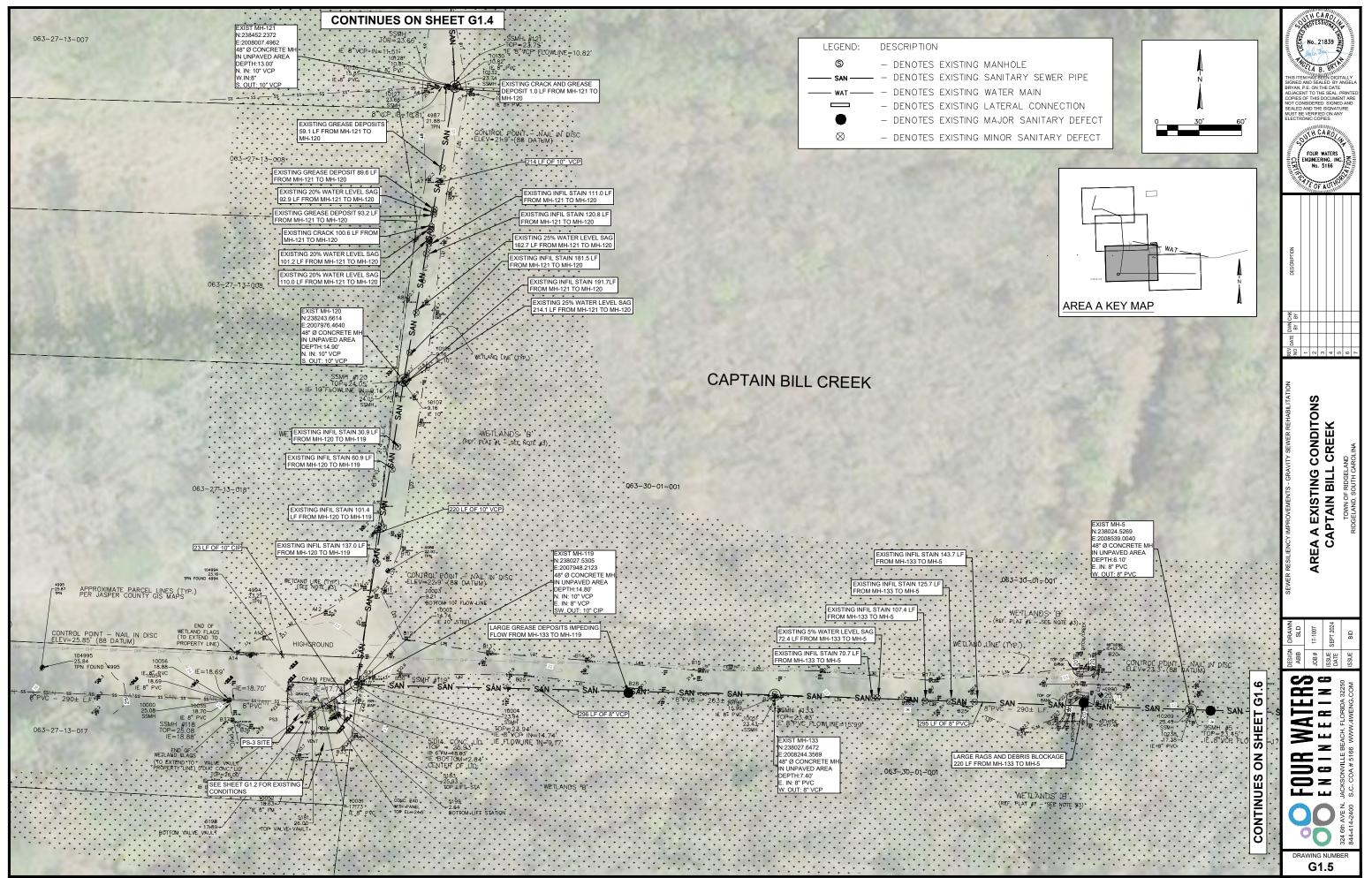


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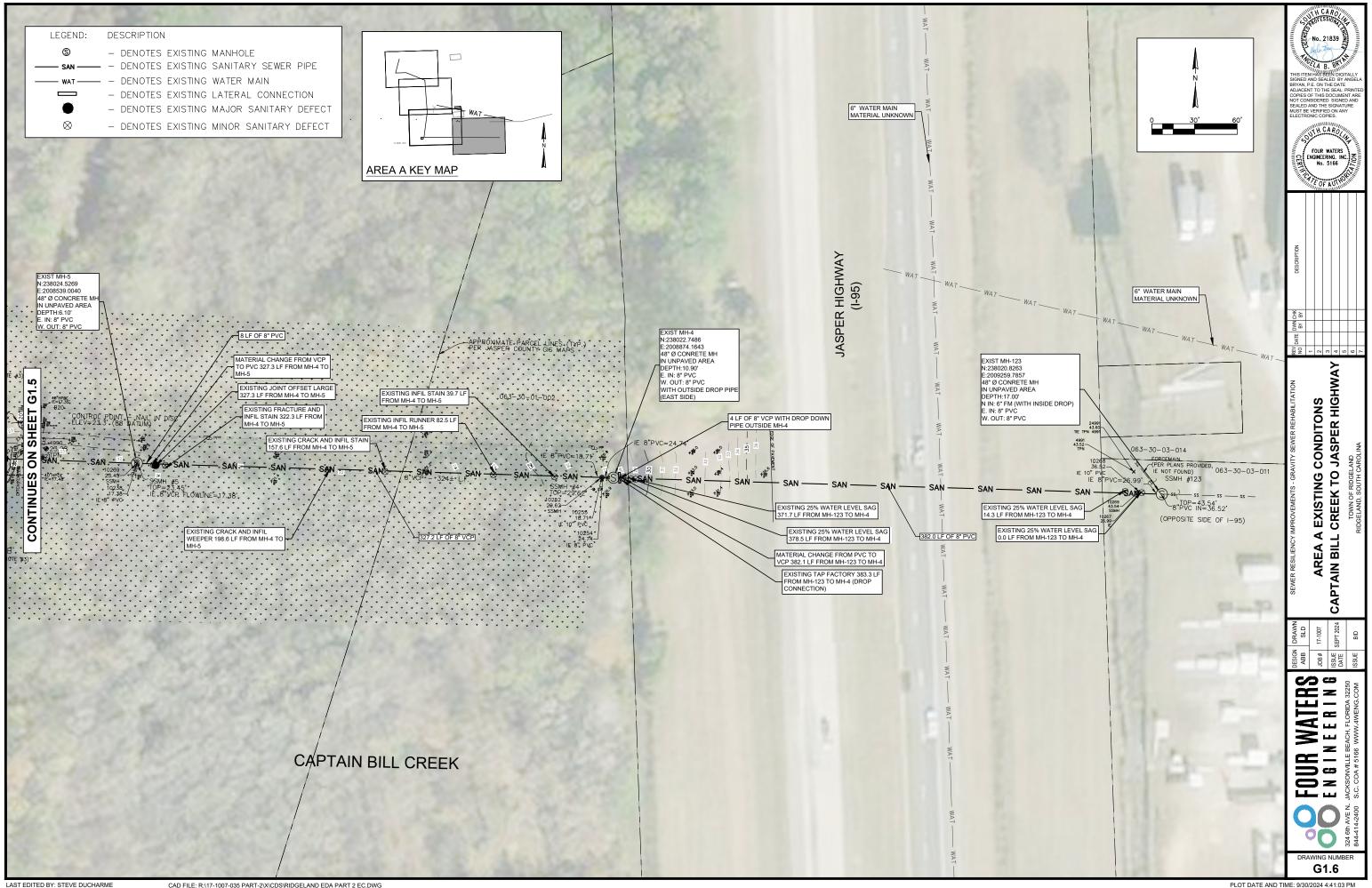


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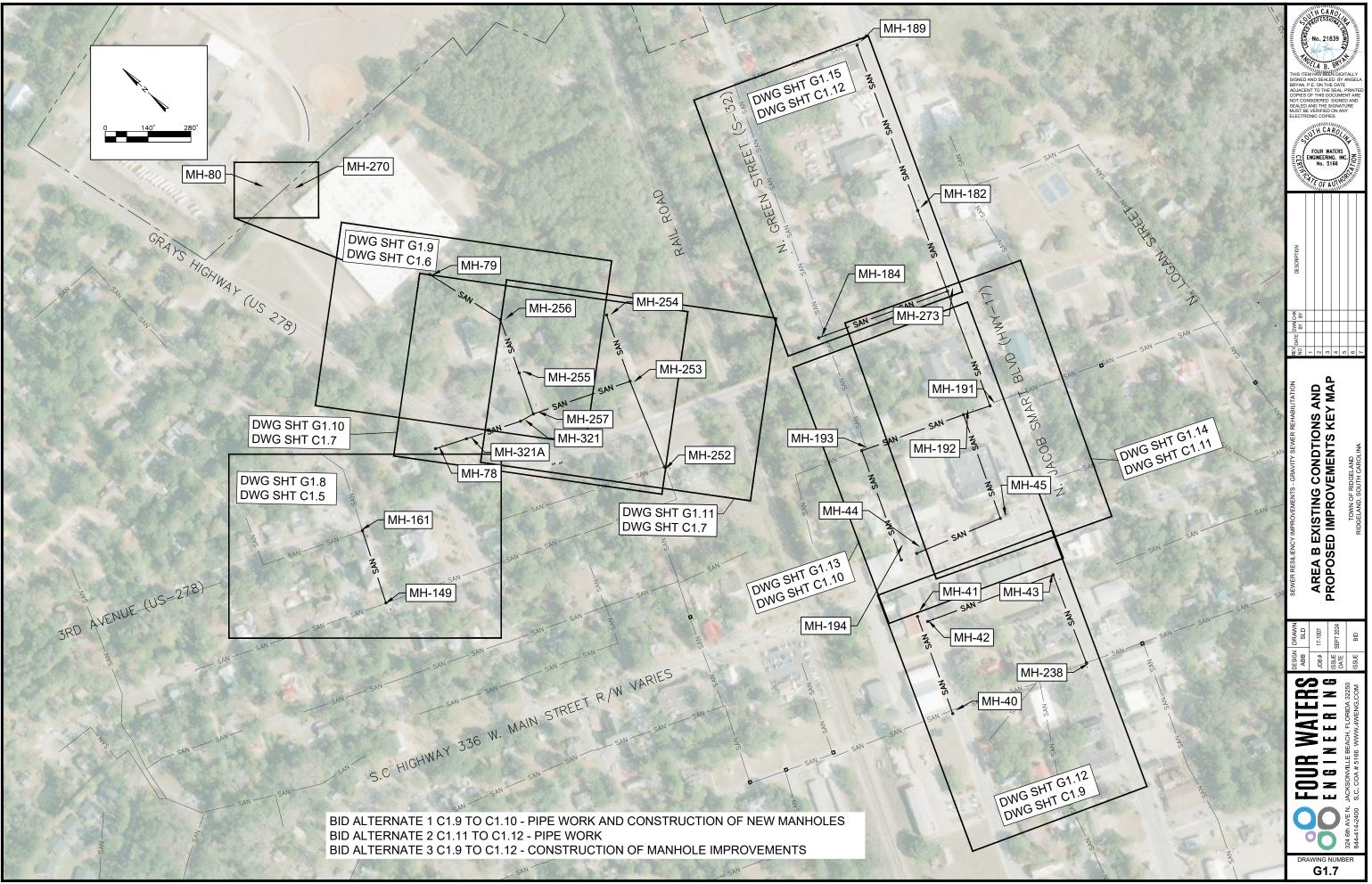
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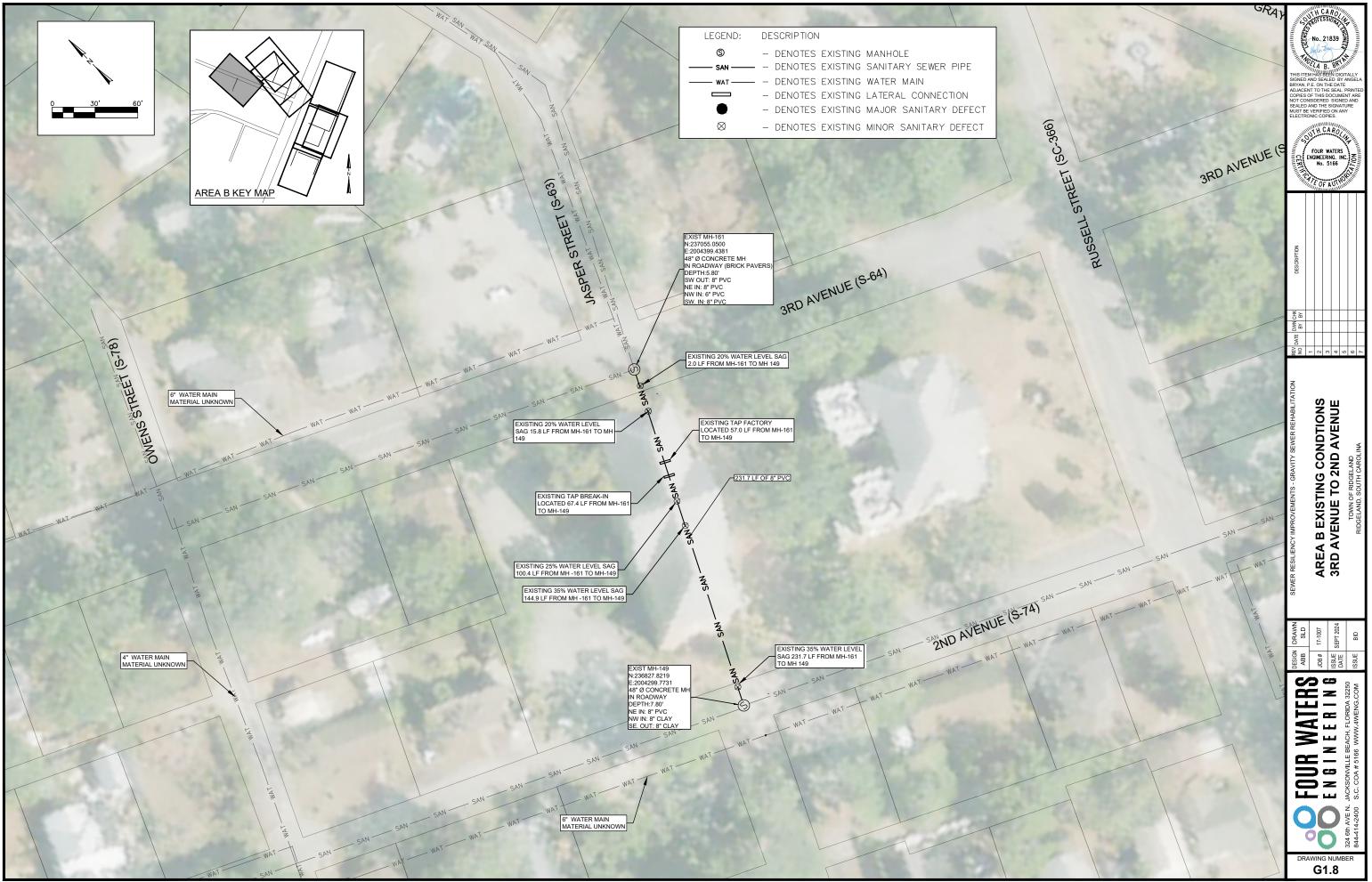
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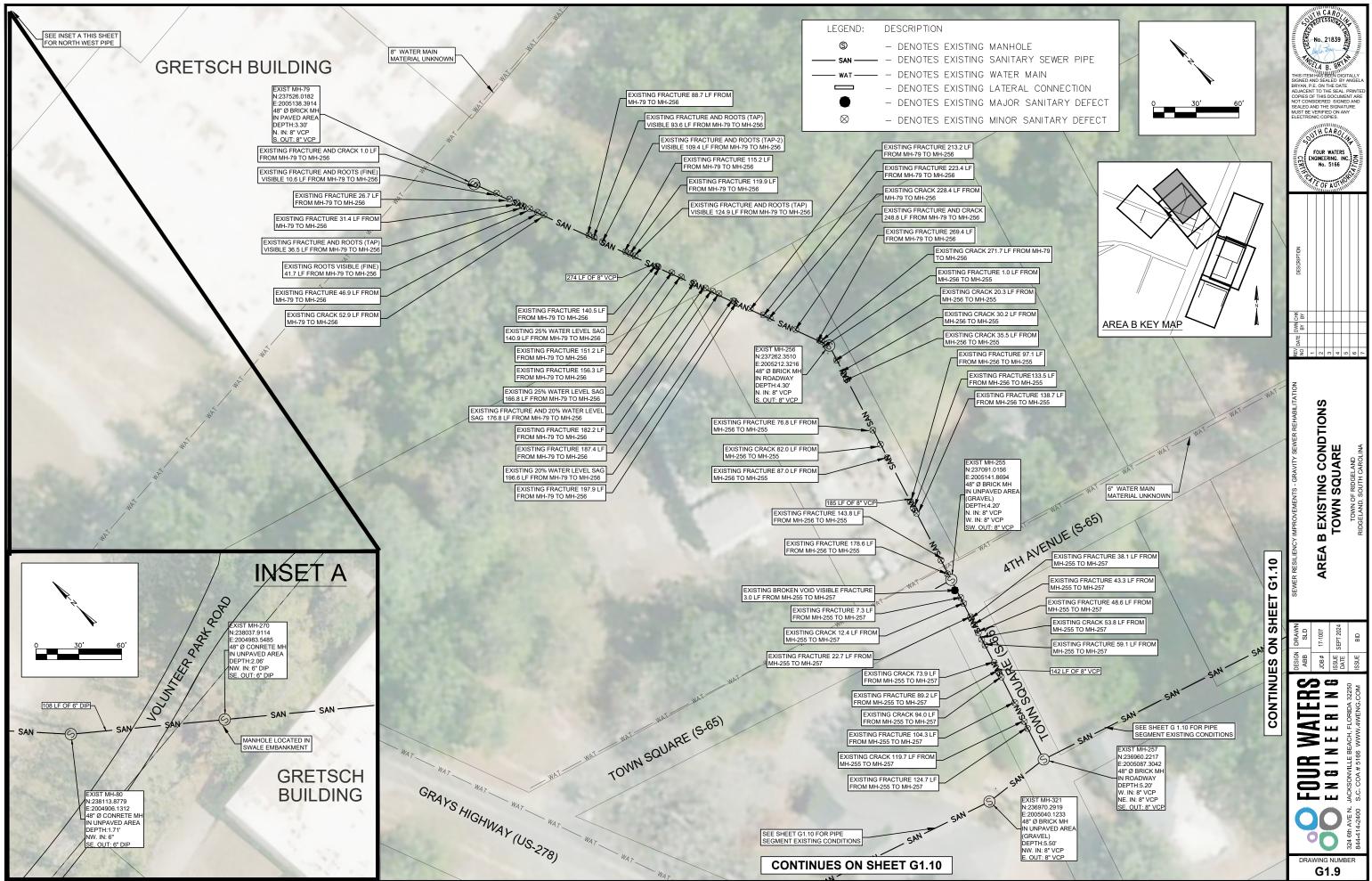


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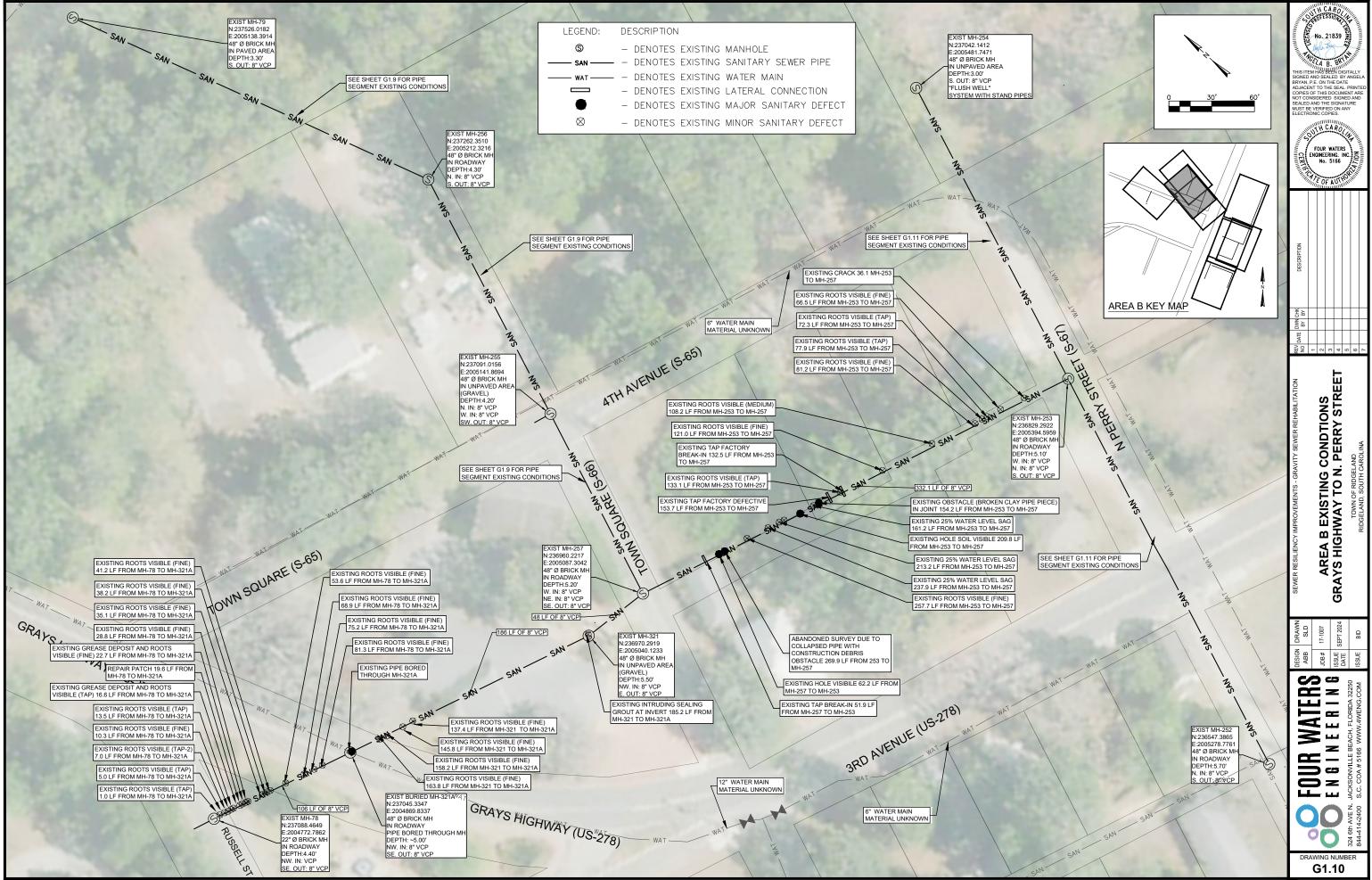


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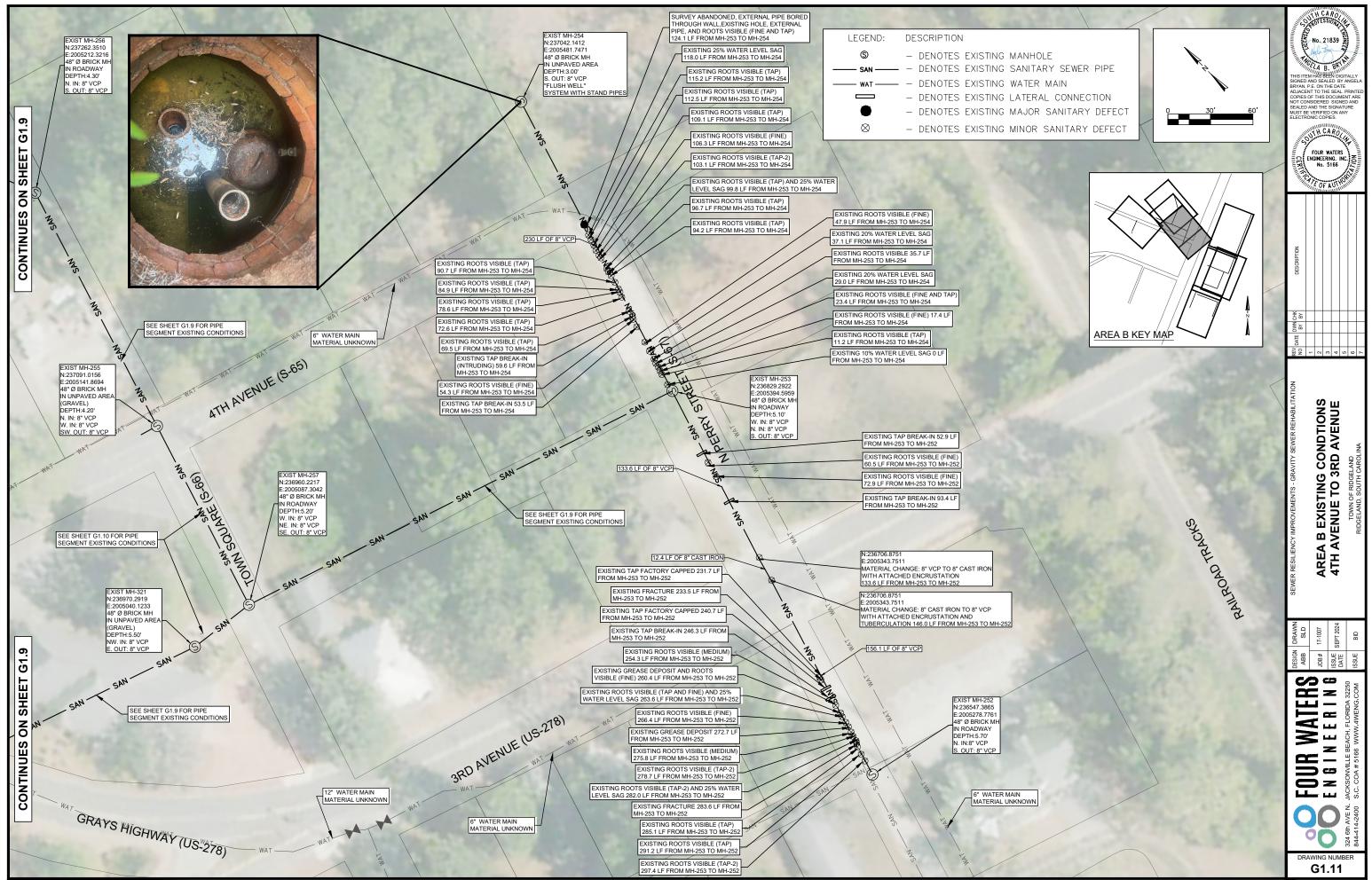
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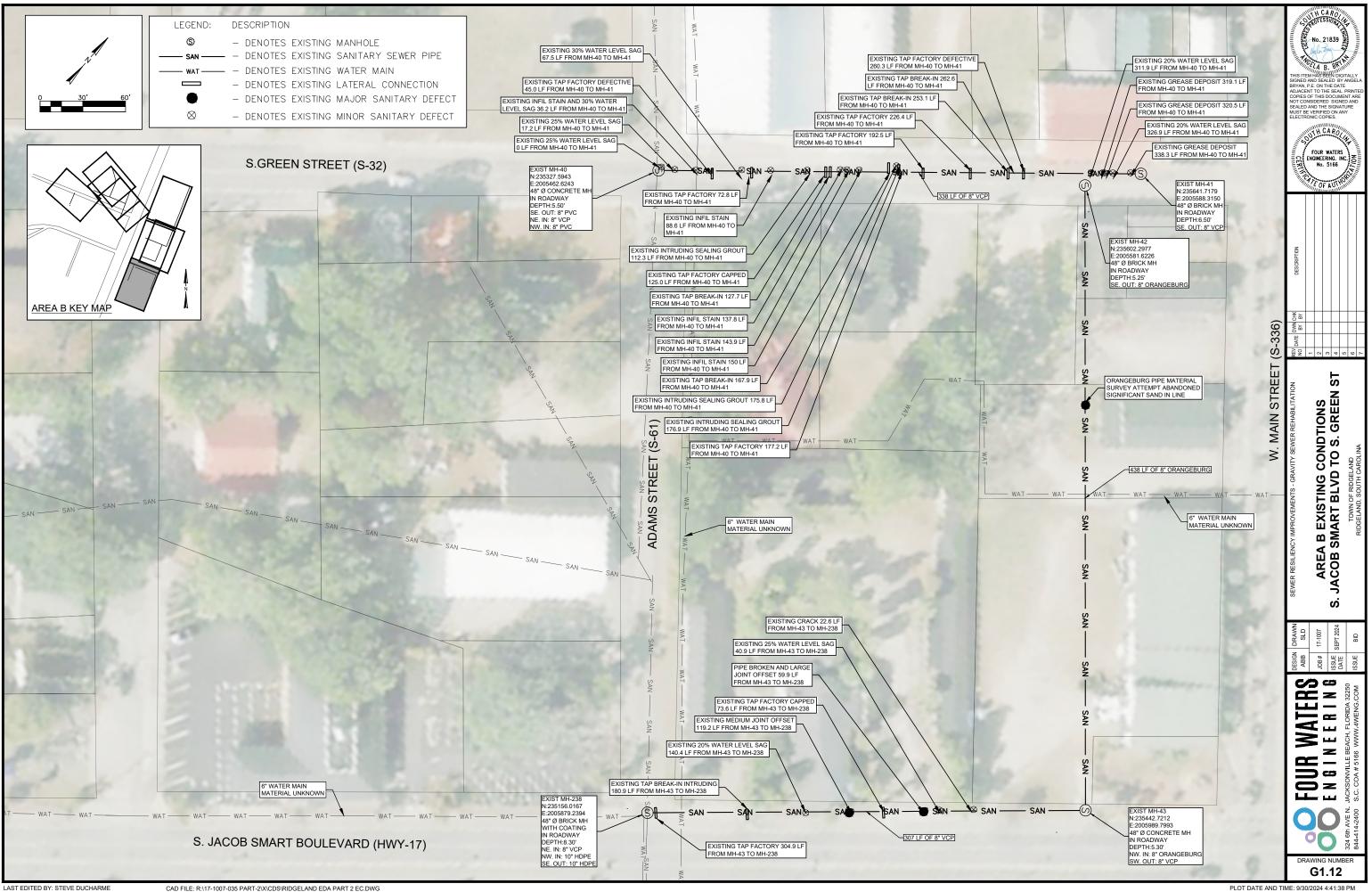
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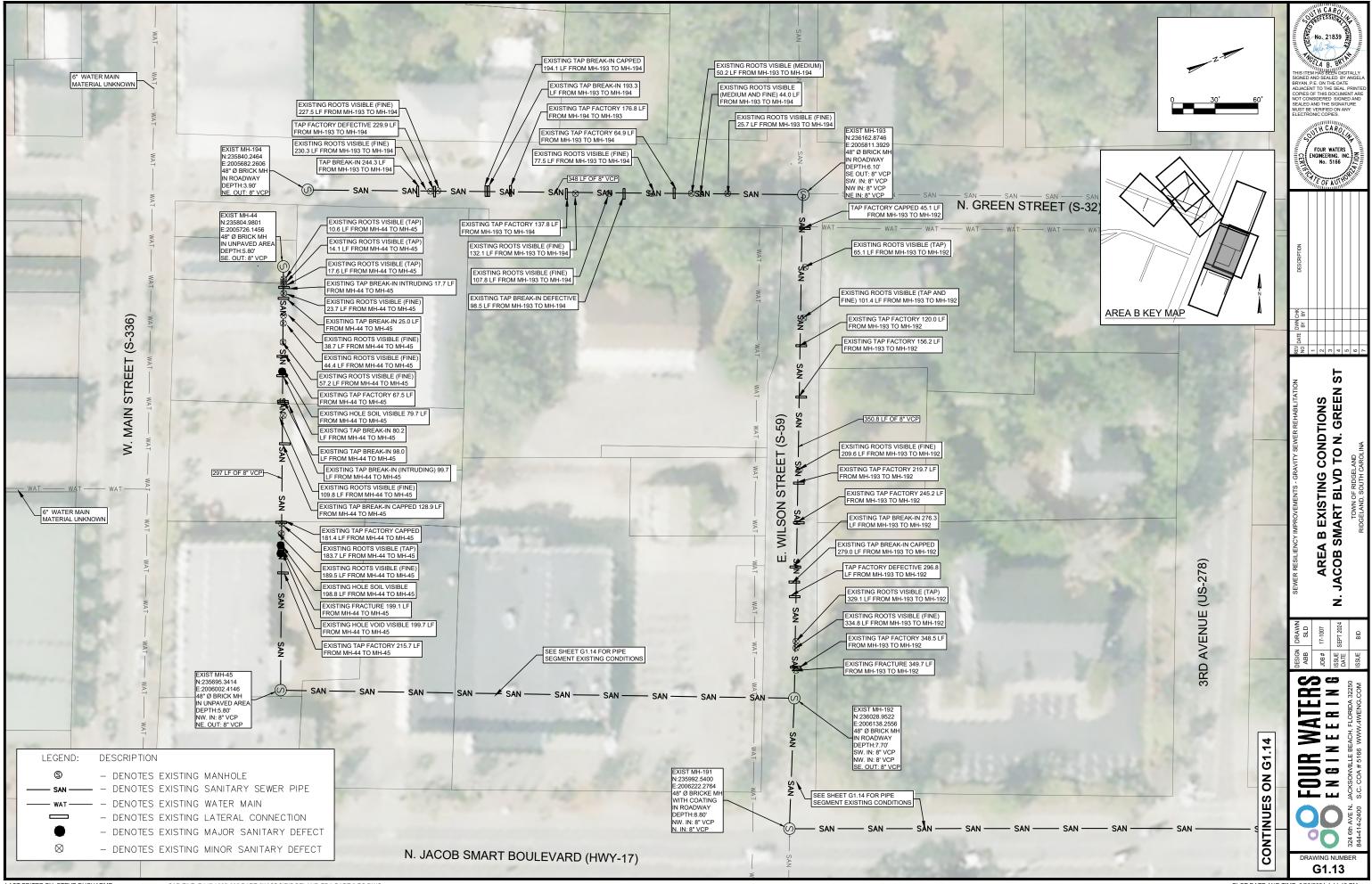


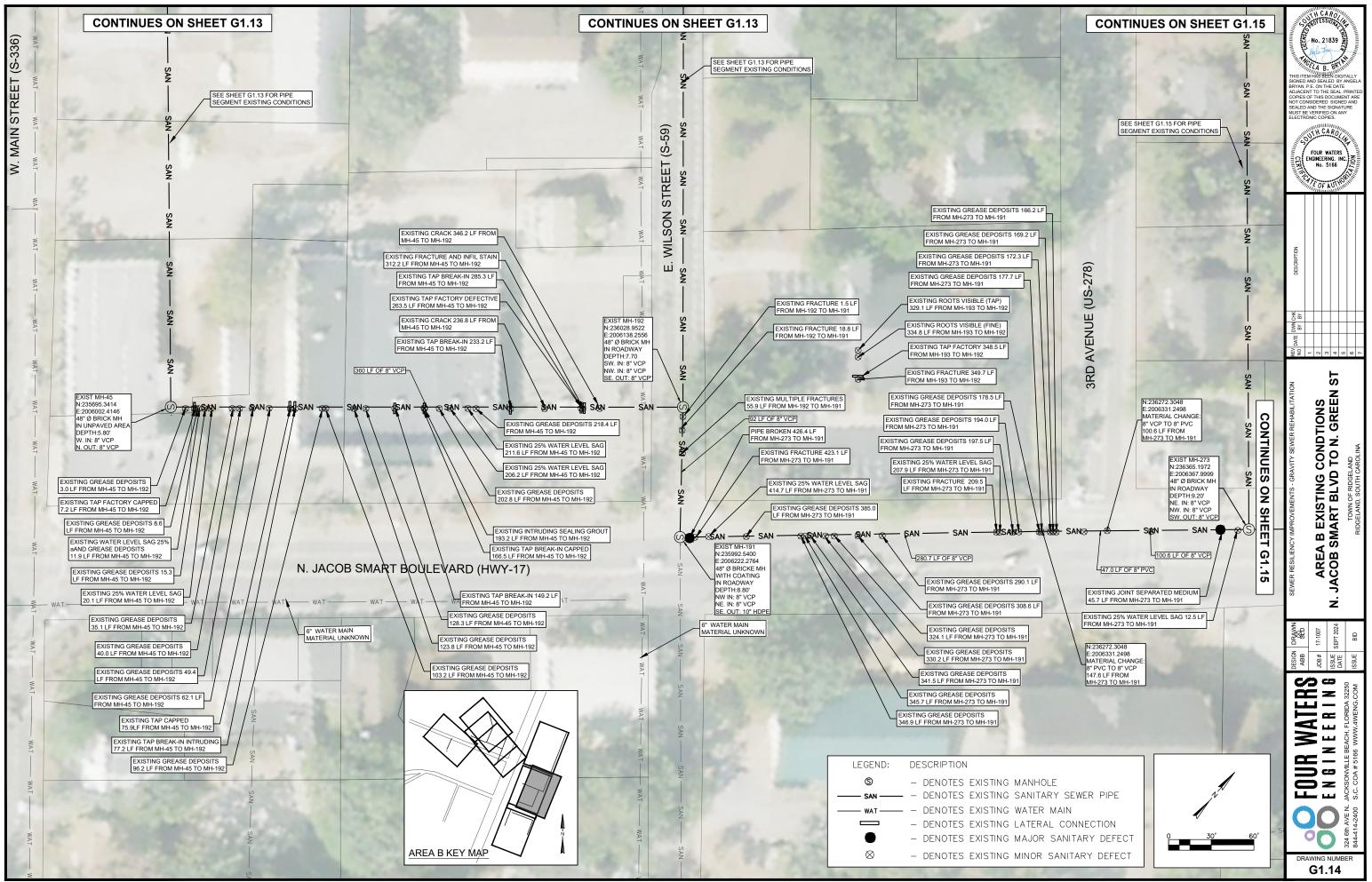
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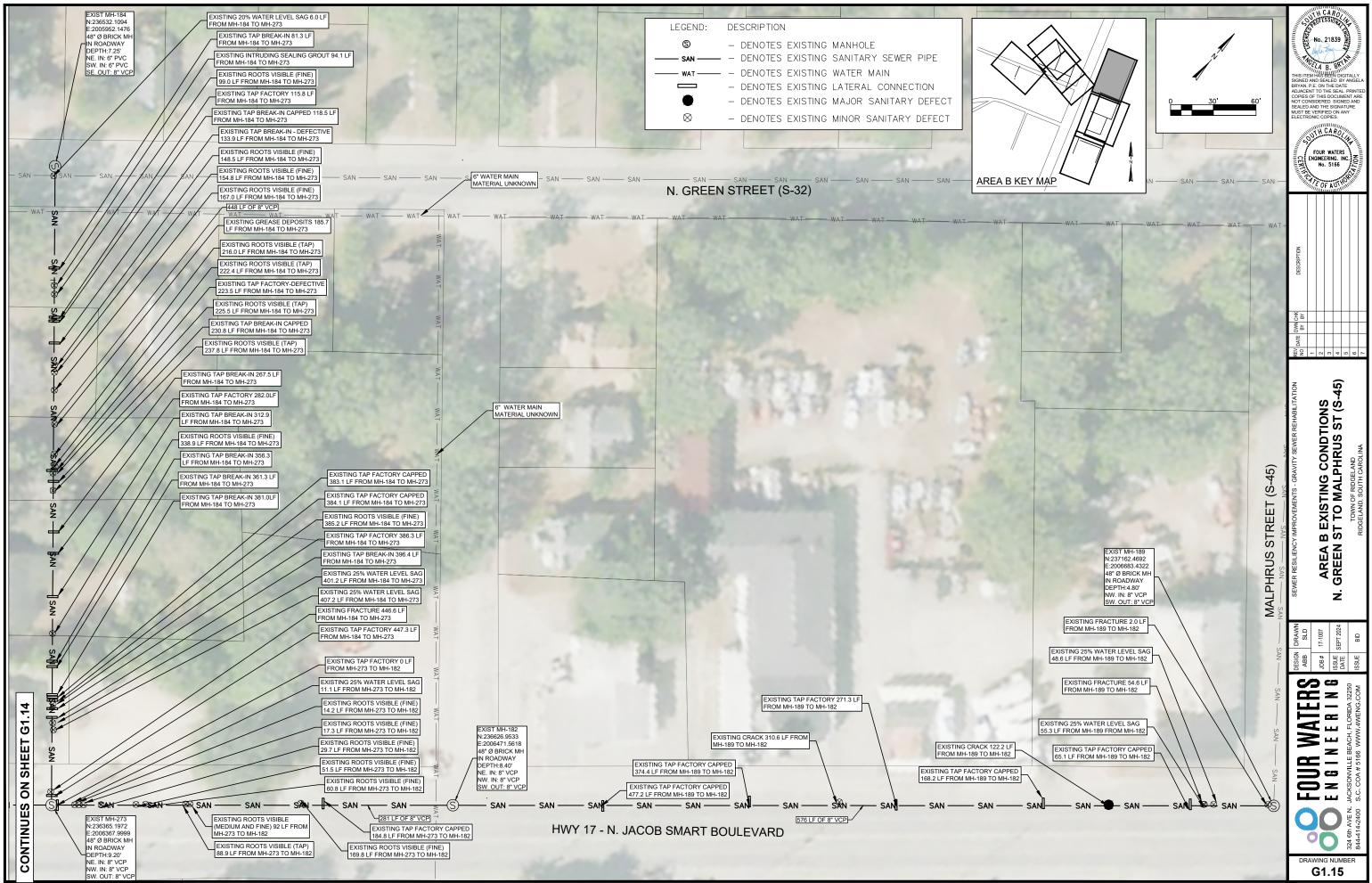






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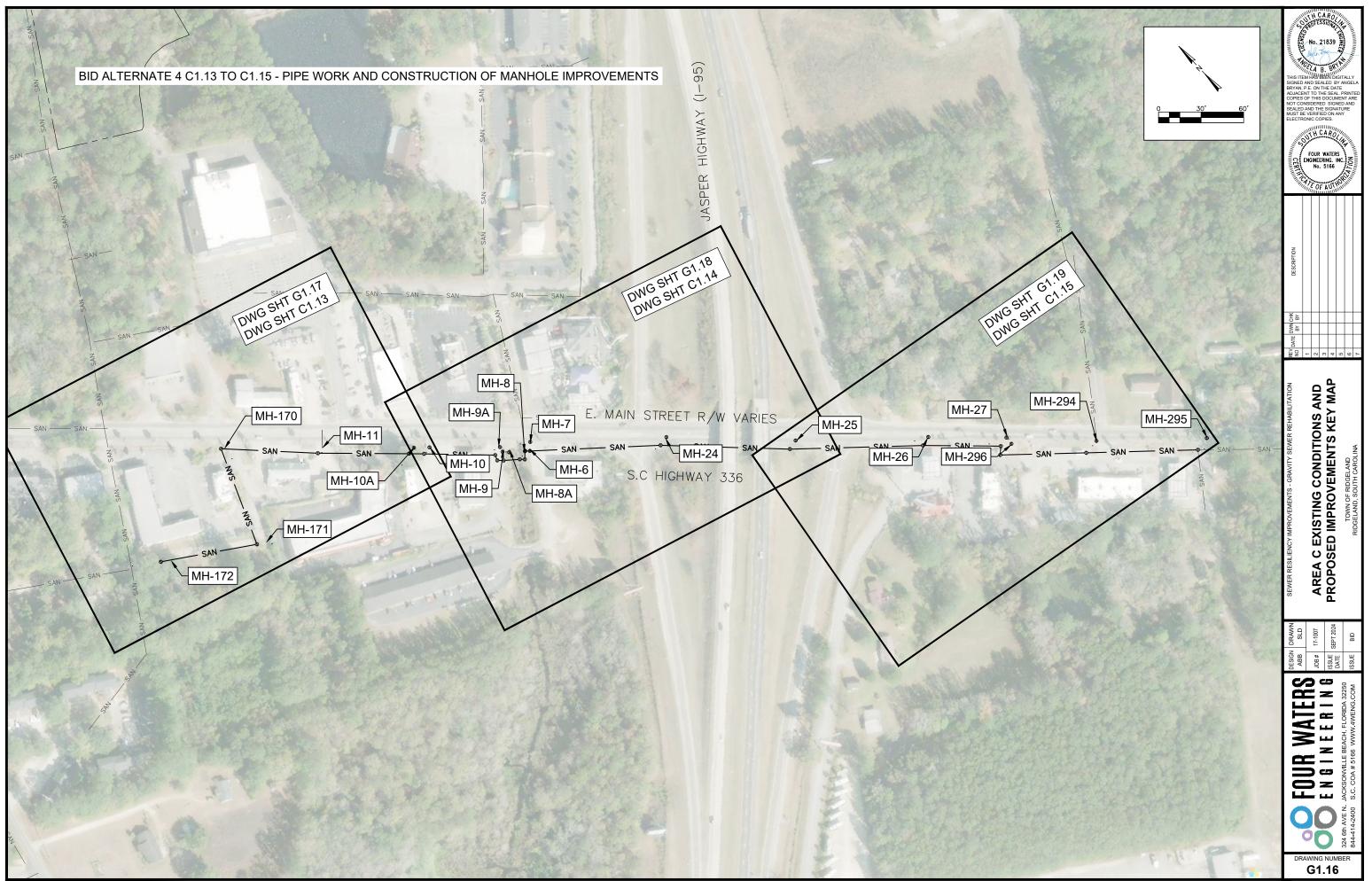
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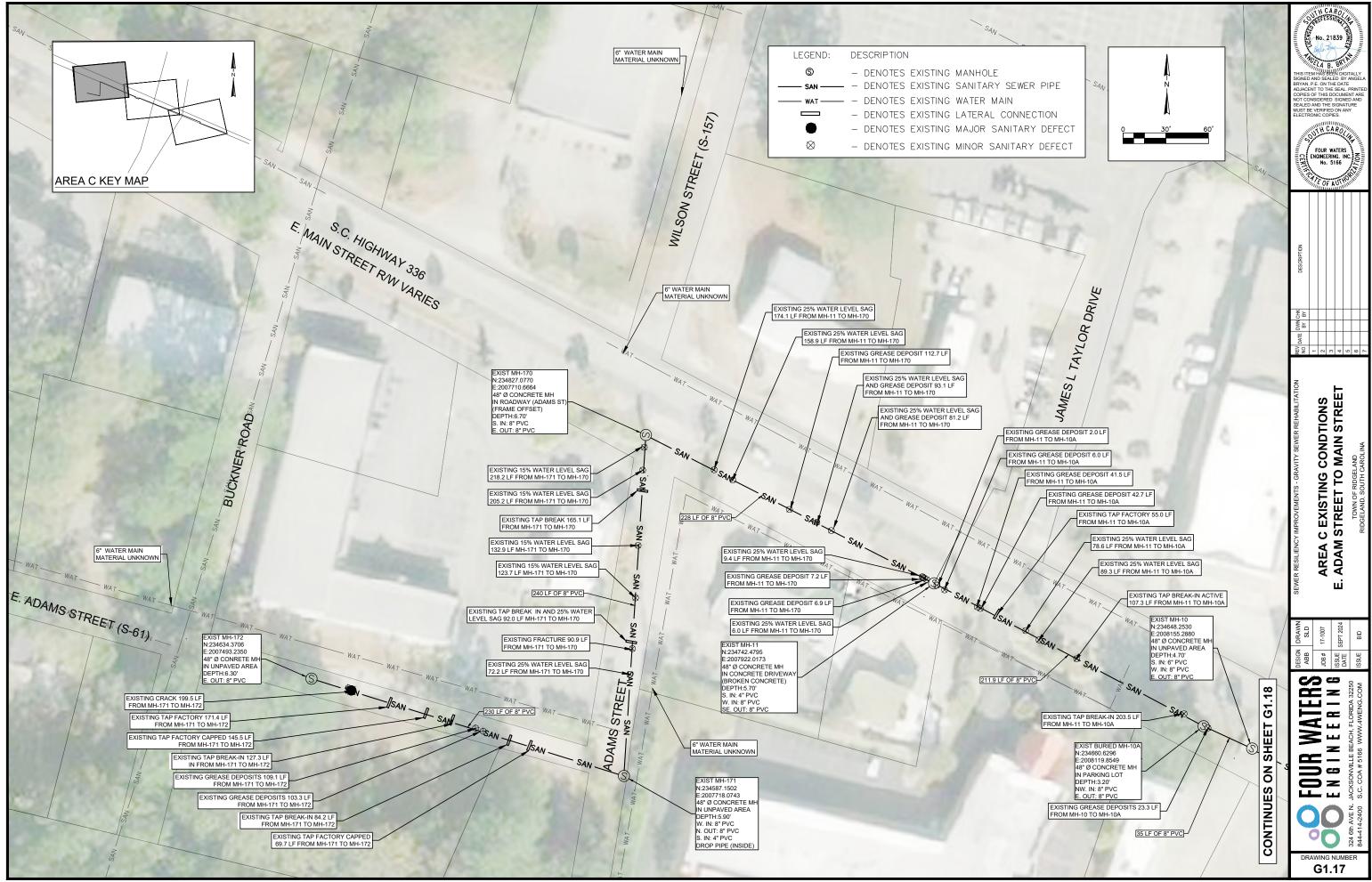
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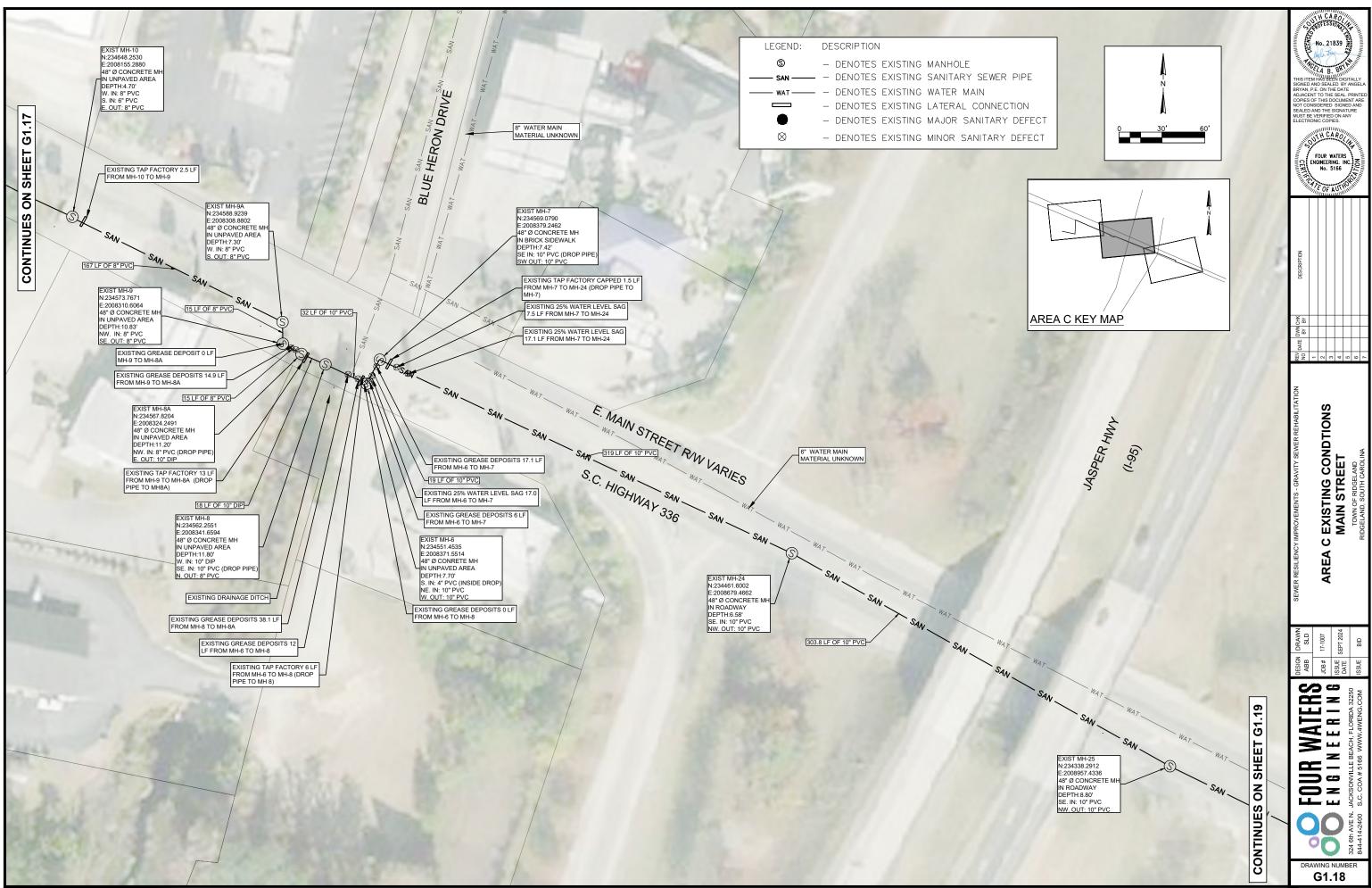
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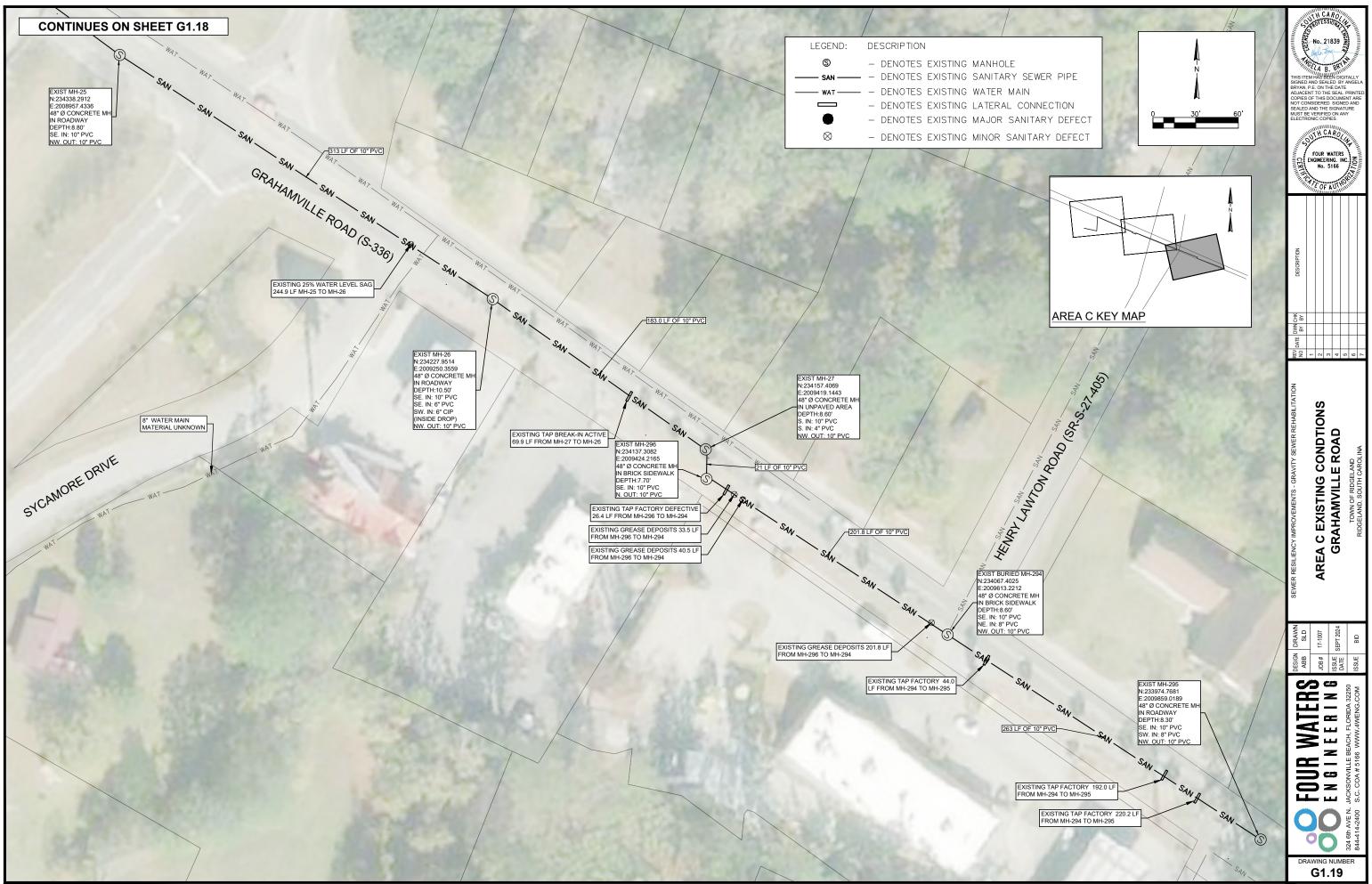
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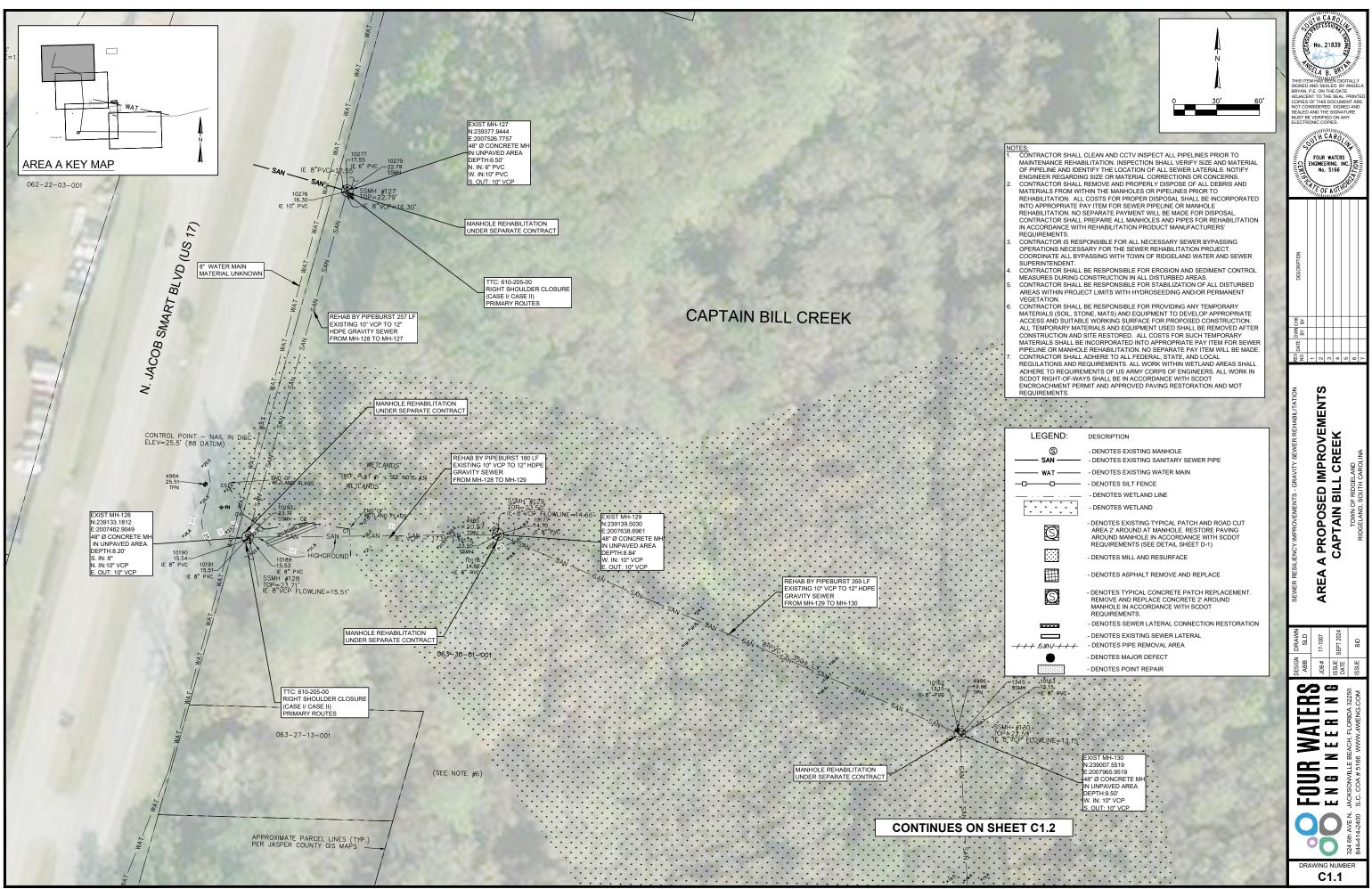


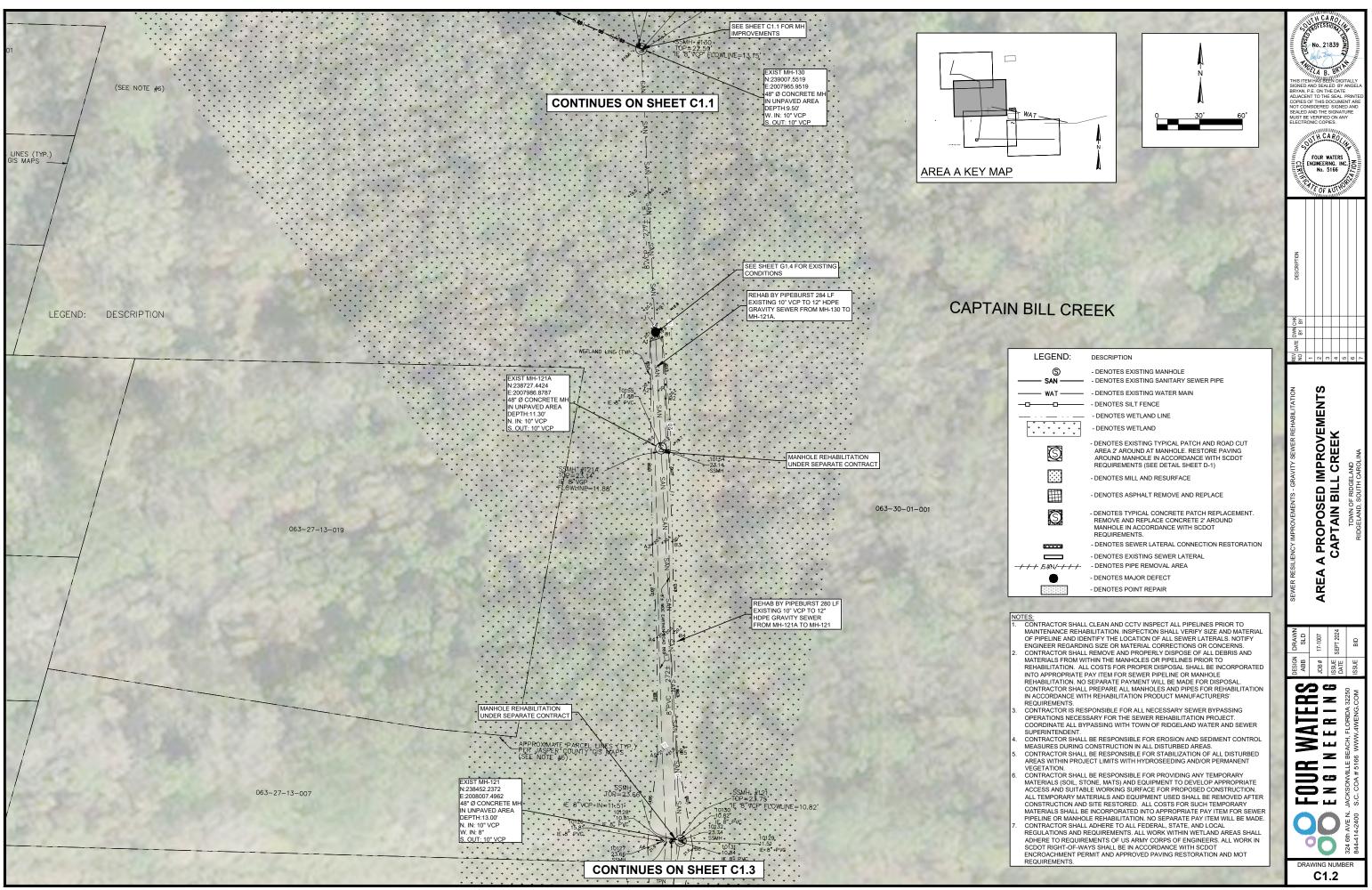
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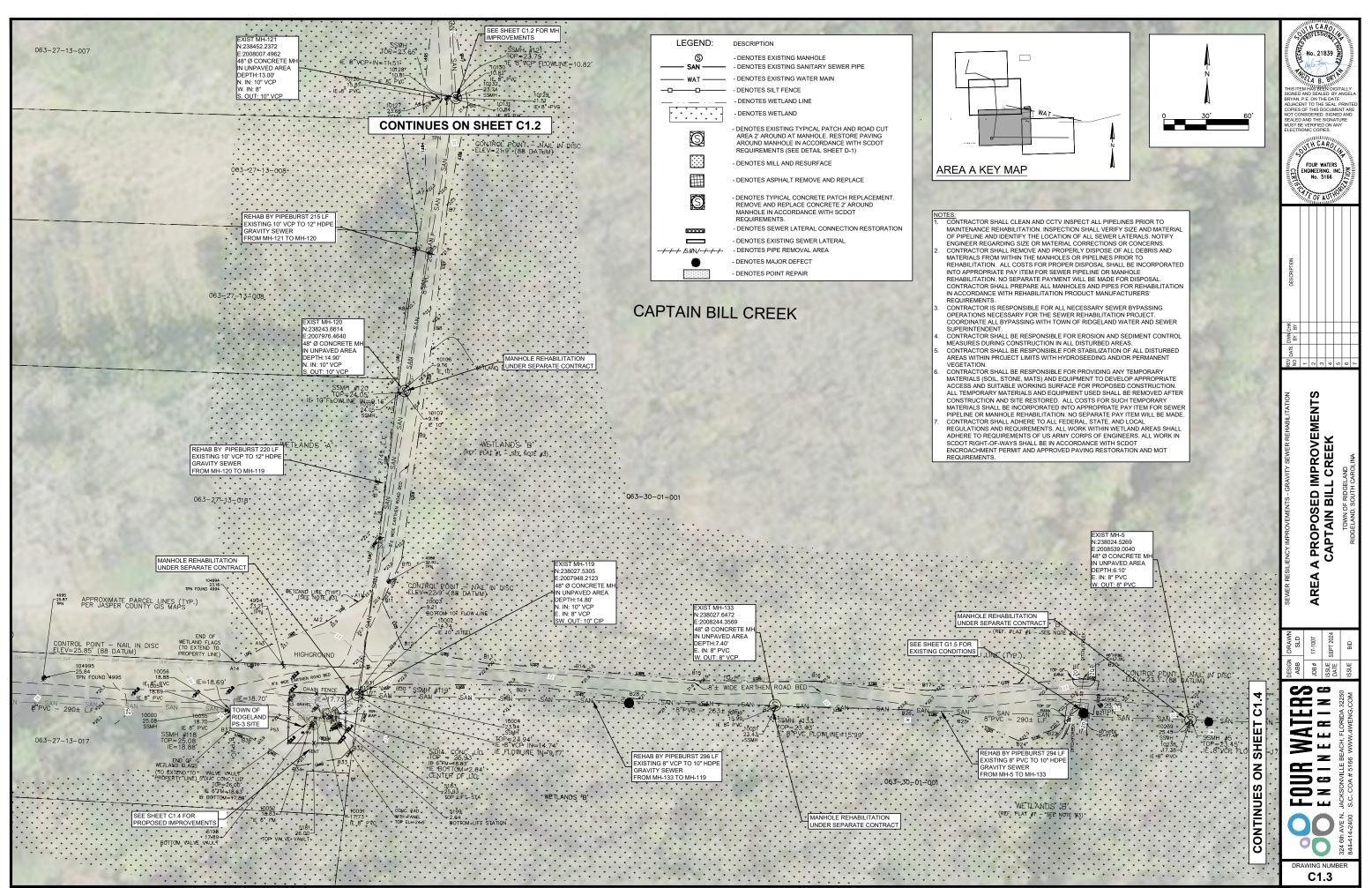
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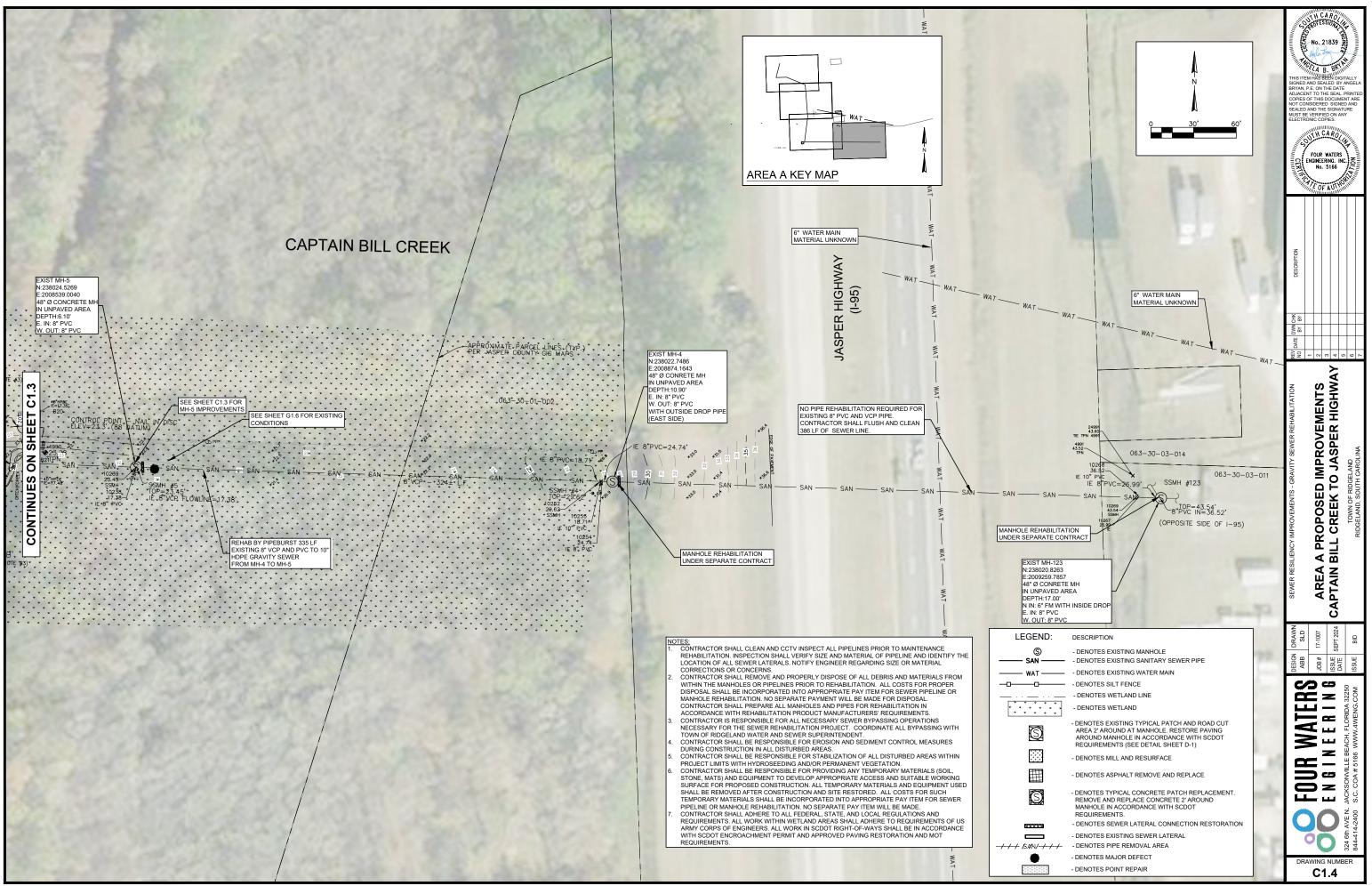




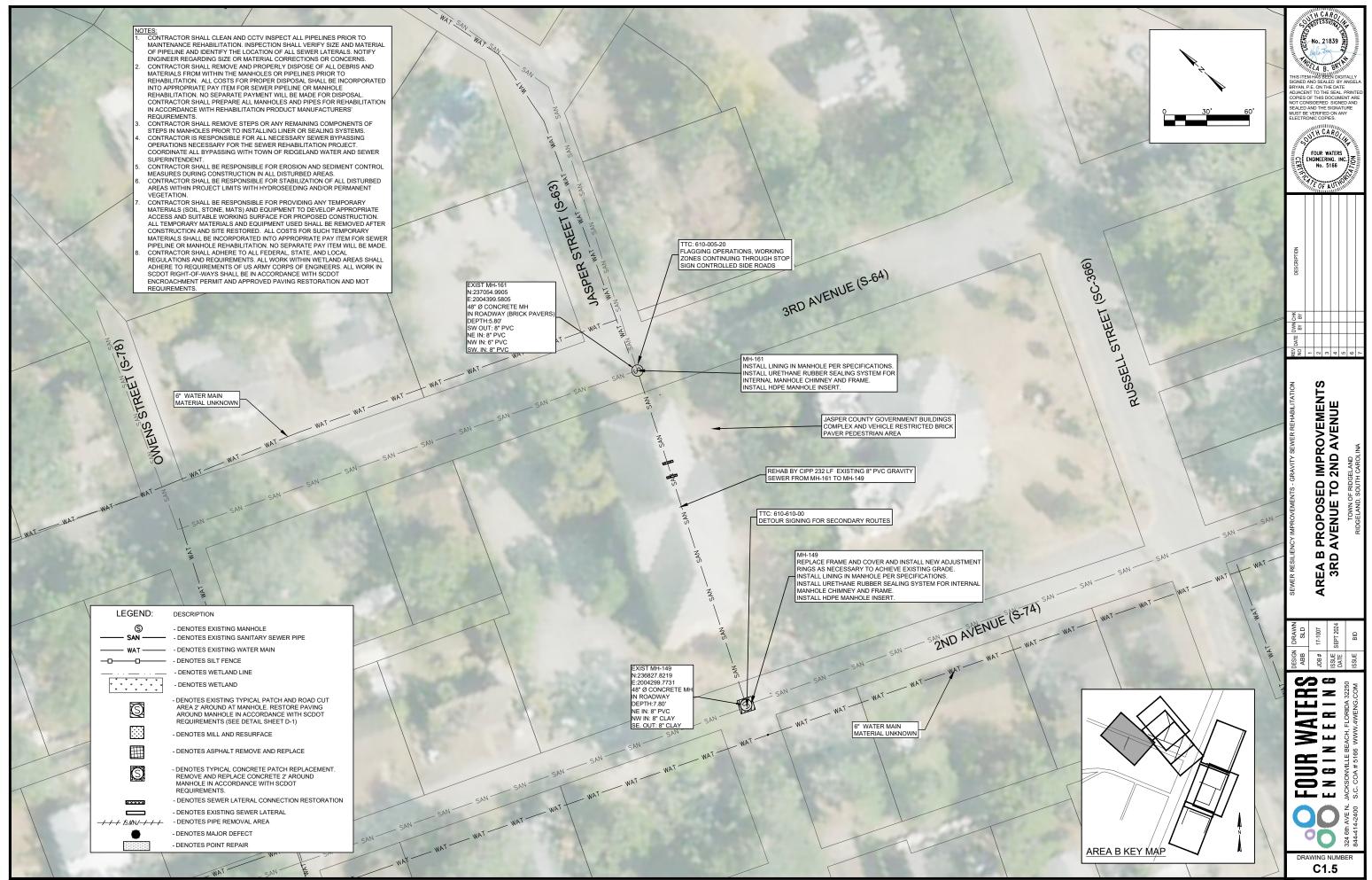
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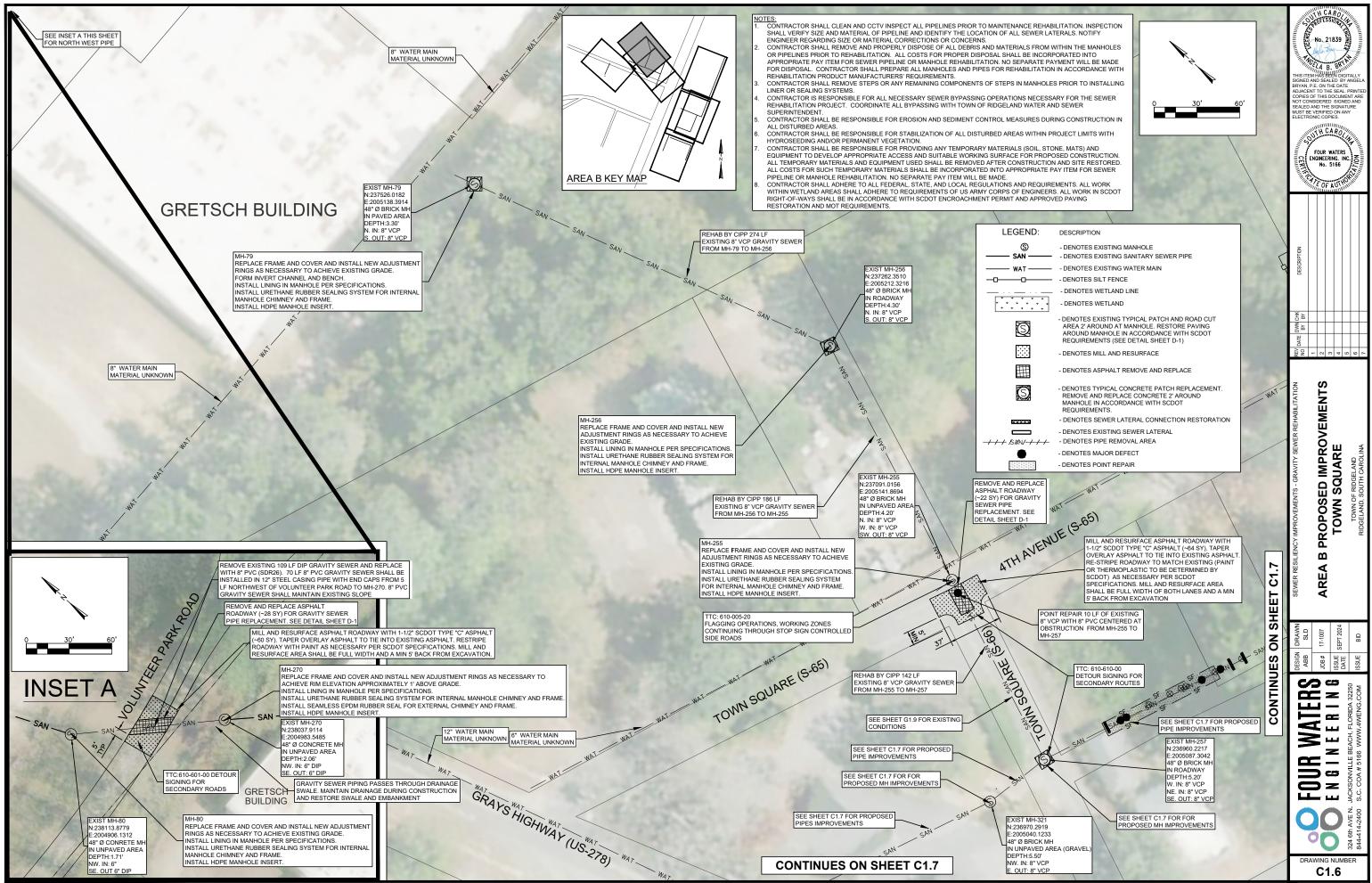
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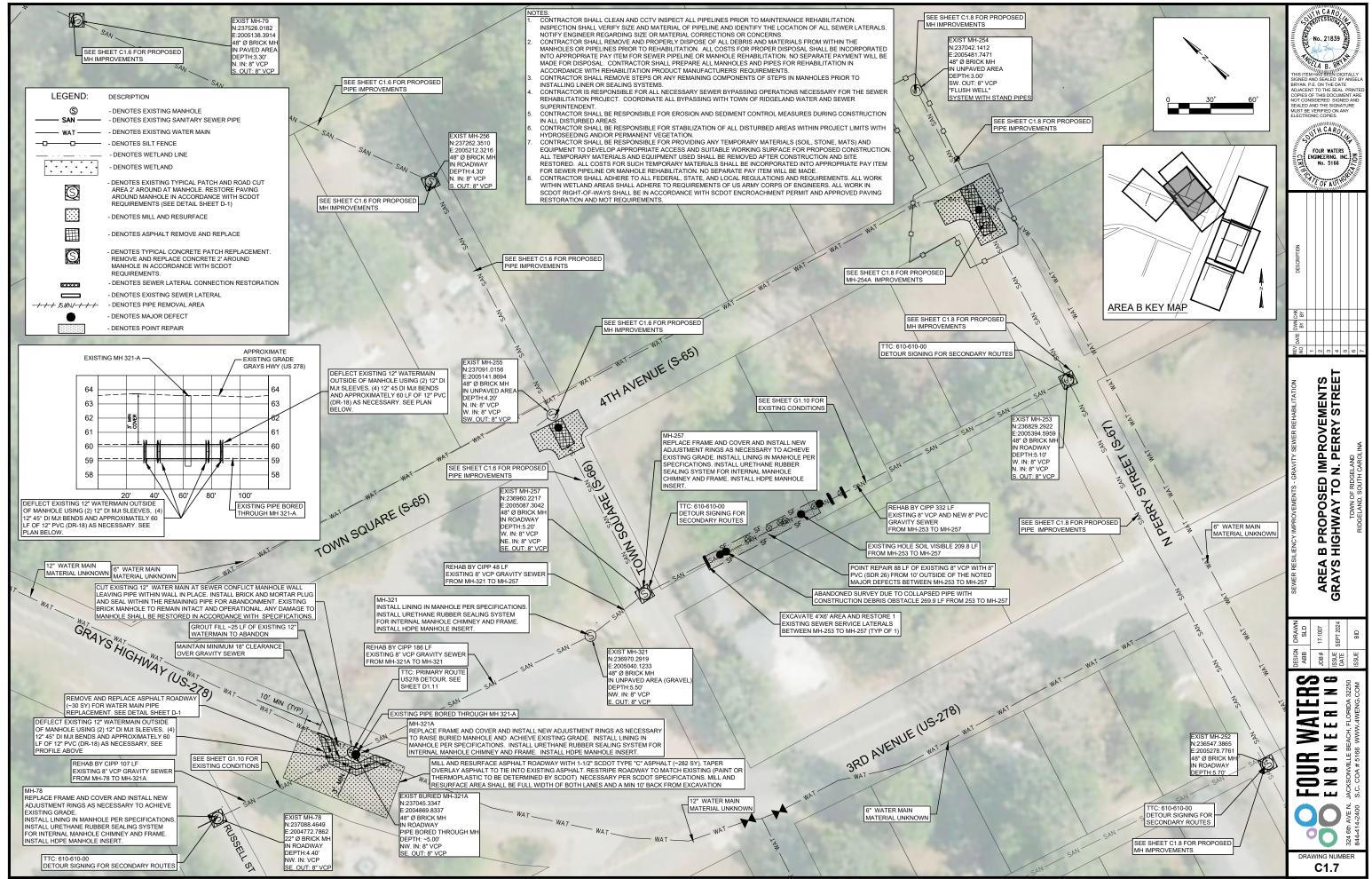


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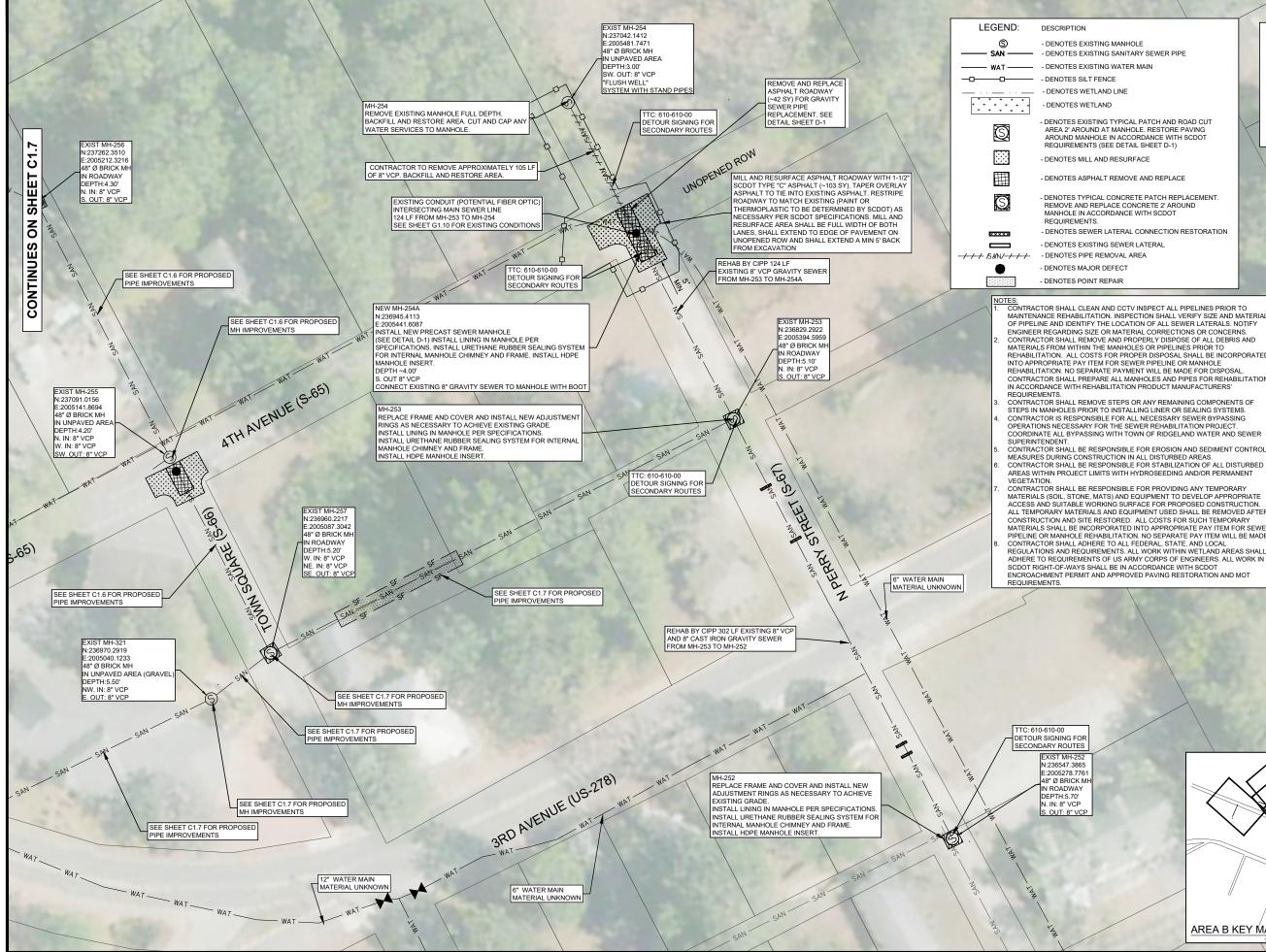
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- DENOTES EXISTING SANITARY SEWER PIPE

DENOTES EXISTING TYPICAL PATCH AND ROAD CUT AREA 2' AROUND AT MANHOLE RESTORE PAVING AROUND MANHOLE IN ACCORDANCE WITH SCDOT REQUIREMENTS (SEE DETAIL SHEET D-1)

- DENOTES TYPICAL CONCRETE PATCH REPLACEMENT REMOVE AND REPLACE CONCRETE 2' AROUND MANHOLE IN ACCORDANCE WITH SCDOT

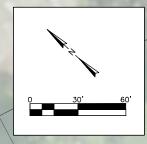
- DENOTES SEWER LATERAL CONNECTION RESTORATION

NOTES: 1. CONTRACTOR SHALL CLEAN AND CCTV INSPECT ALL PIPELINES PRIOR TO MAINTENANCE REHABILITATION. INSPECTION SHALL VERIFY SIZE AND MATERIAL OF PIPELINE AND IDENTIFY THE LOCATION OF ALL SEWER LATERALS. NOTIFY DENTIFY DECADDING SIZE OR MATERIAL CORRECTIONS OR CONCERNS. ENGINEER REGARDING SIZE OR MATERIAL CORRECTIONS OF CONCERNS. CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL DEBRIS AND MATERIALS FROM WITHIN THE MANHOLES OR PIPELINES PRIOR TO REHABILITATION. ALL COSTS FOR PROPER DISPOSAL SHALL BE INCORPORATED INTO APPROPRIATE PAY ITEM FOR SEWER PIPELINE OR MANHOLE REHABILITATION. NO SEPARATE PAYMENT WILL BE MADE FOR DISPOSAL CONTRACTOR SHALL PREPARE ALL MANHOLES AND PIPES FOR REHABILITATION IN ACCORDANCE WITH REHABILITATION PRODUCT MANUFACTURERS'

CONTRACTOR SHALL REMOVE STEPS OR ANY REMAINING COMPONENTS OF STEPS IN MANHOLES PRIOR TO INSTALLING LINER OR SEALING SYSTEMS. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY SEWER BYPASSING OPERATIONS NECESSARY FOR THE SEWER REHABILITATION PROJECT. COORDINATE ALL BYPASSING WITH TOWN OF RIDGELAND WATER AND SEWER

MEASURES DURING CONSTRUCTION IN ALL DISTURBED AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS WITHIN PROJECT LIMITS WITH HYDROSEEDING AND/OR PERMANENT

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY MATERIALS (SOIL, STONE, MATS) AND EQUIPMENT TO DEVELOP APPROPRIATE ACCESS AND SUITABLE WORKING SURFACE FOR PROPOSED CONSTRUCTION. ALL TEMPORARY MATERIALS AND EQUIPMENT USED SHALL BE REMOVED AFTER CONSTRUCTION AND SITE RESTORED. ALL COSTS FOR SUCH TEMPORARY MATERIALS SHALL BE INCORPORATED INTO APPROPRIATE PAY ITEM FOR SEWER PIPELINE OR MANHOLE REHABILITATION, NO SEPARATE PAY ITEM WILL BE MADE PIPELINE OK MANHOLE REHABILITATION, NO SEPARATE PATTIEM WILL DE WADE CONTRACTOR SHALL ADHERE TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND REQUIREMENTS. ALL WORK WITHIN WETLAND AREAS SHALL ADHERE TO REQUIREMENTS OF US ARMY CORPS OF ENGINEERS, ALL WORK IN





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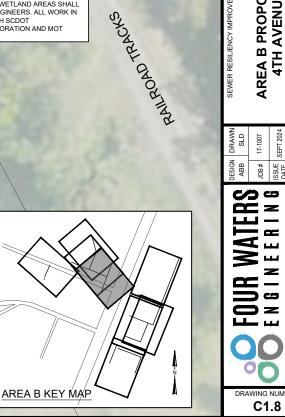
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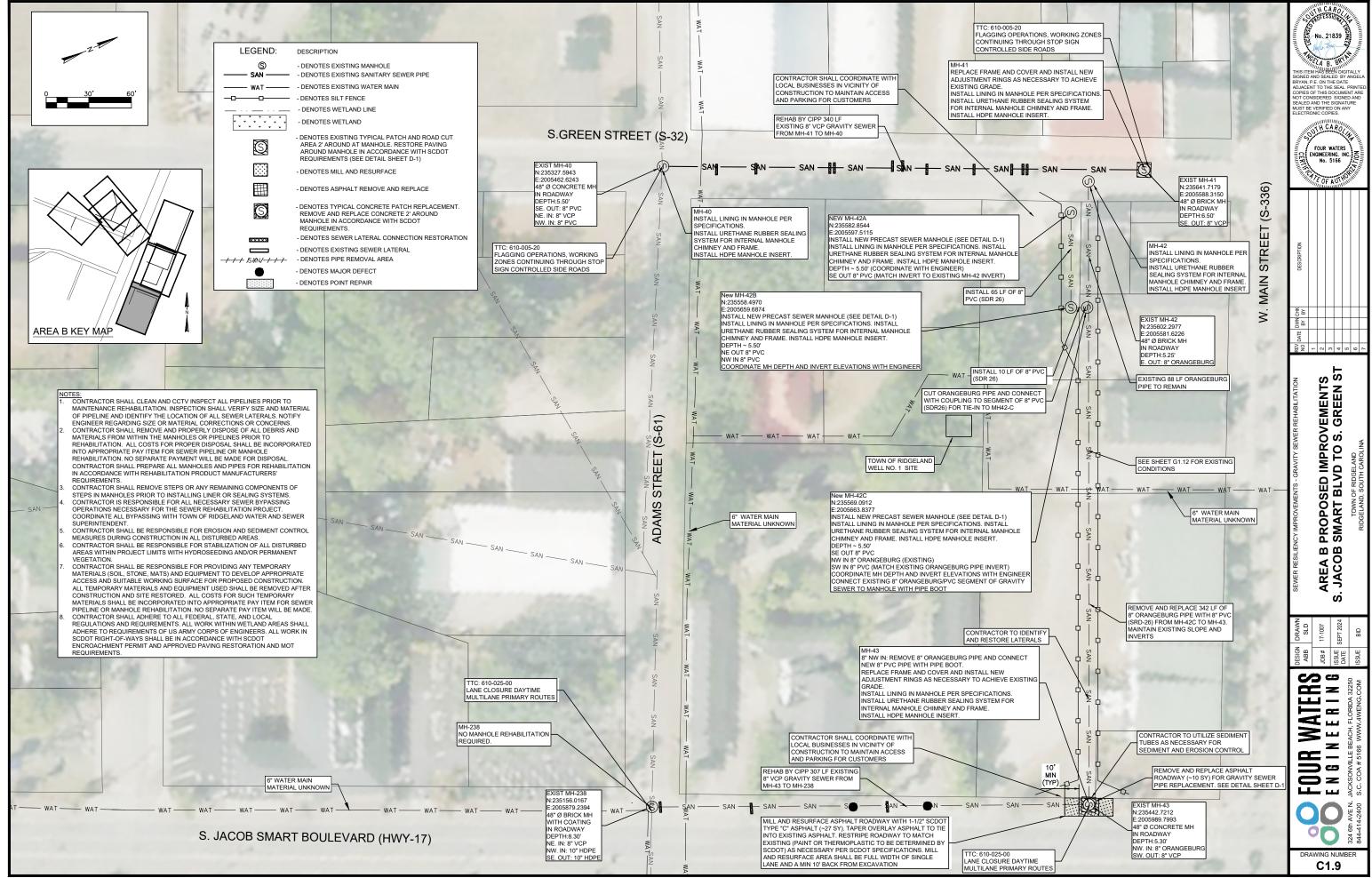
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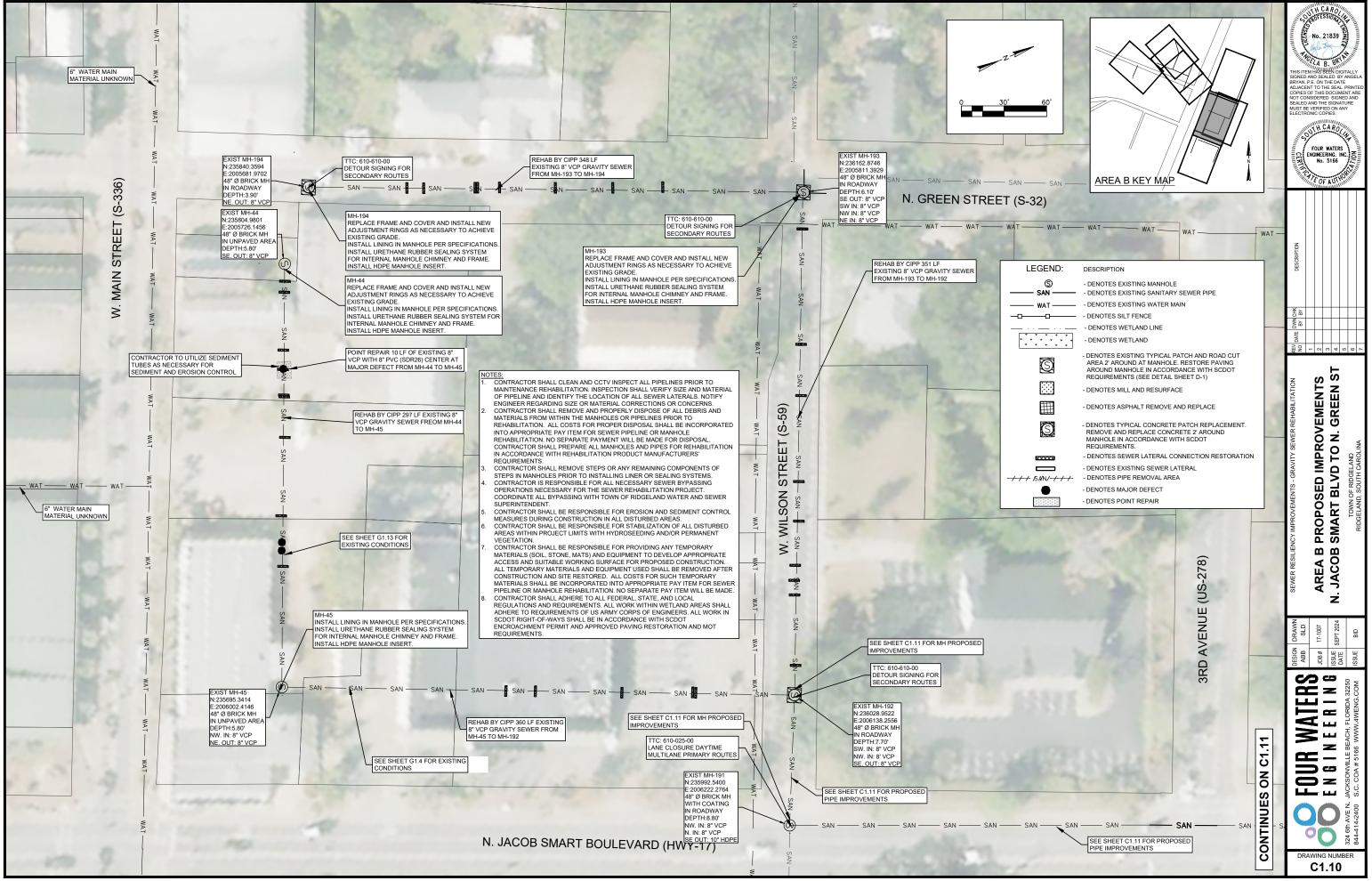




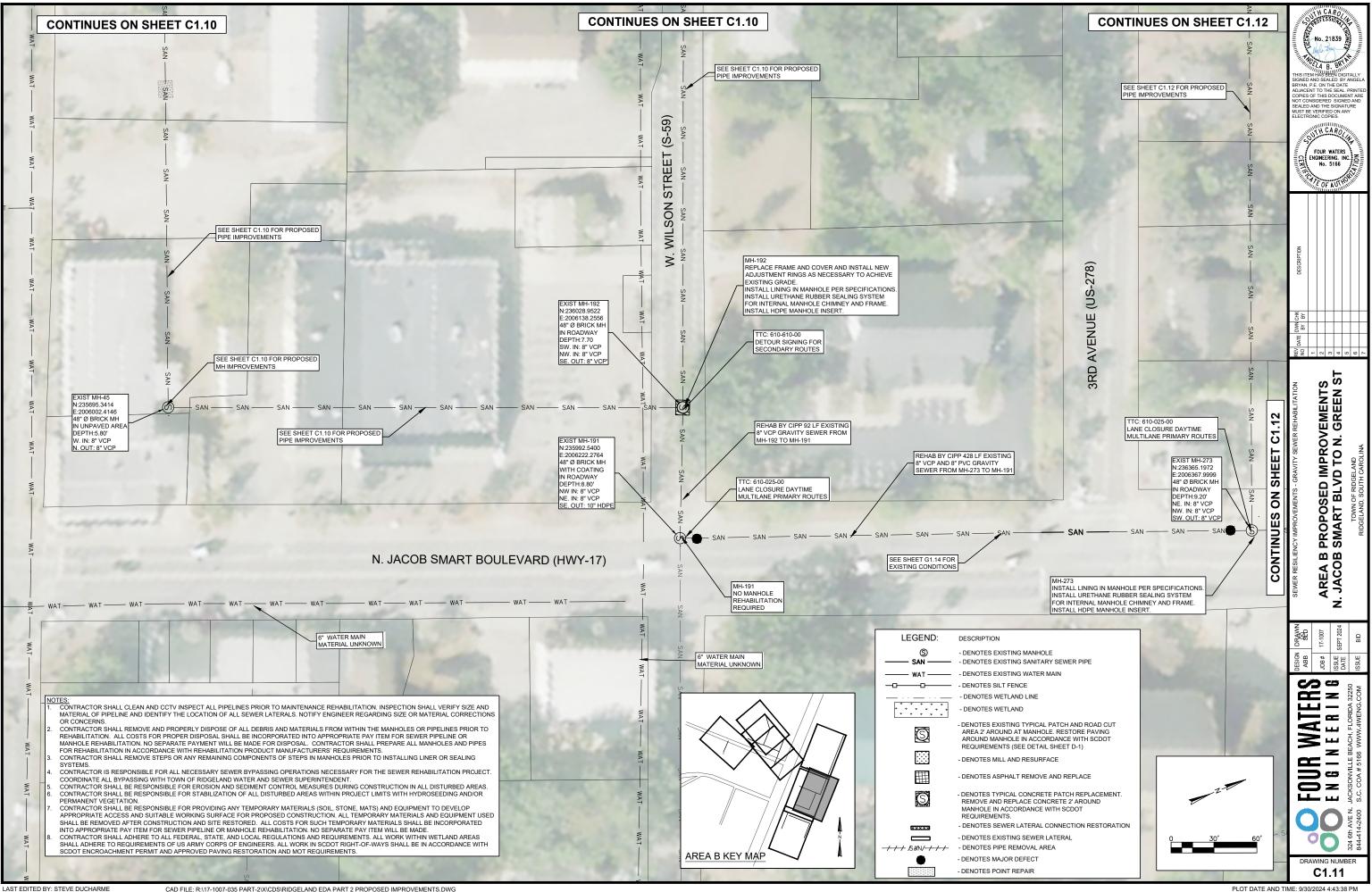
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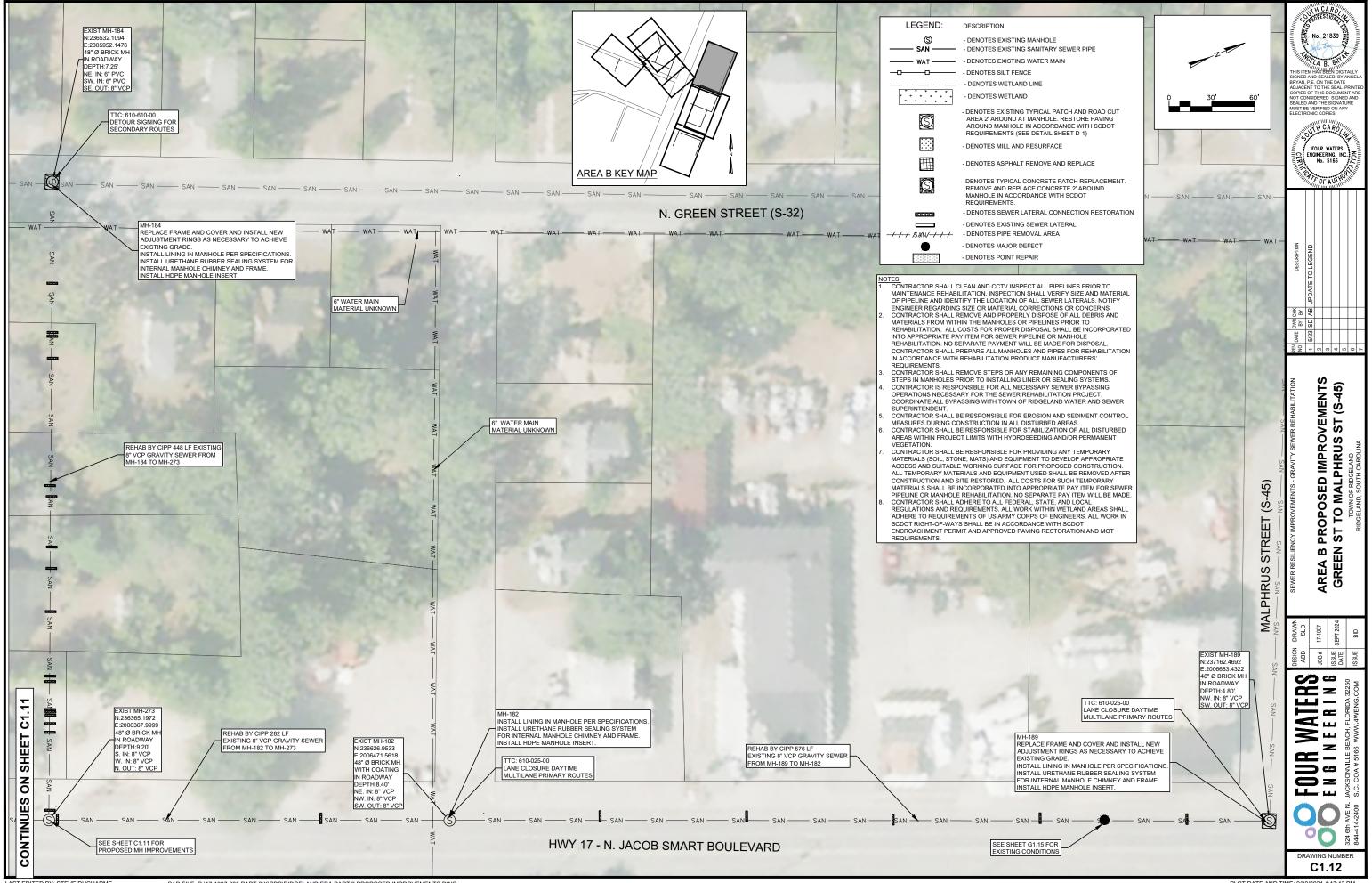
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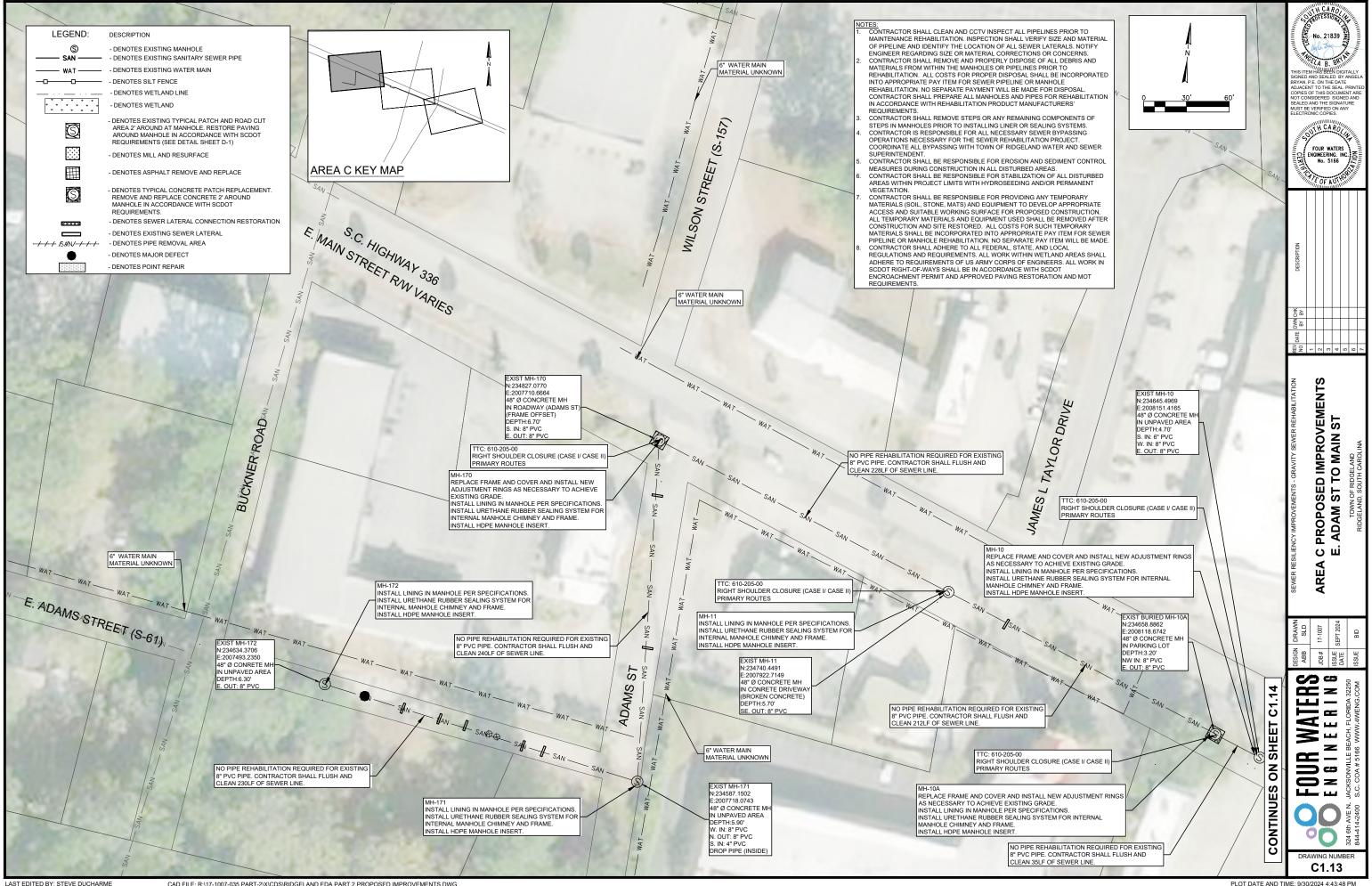
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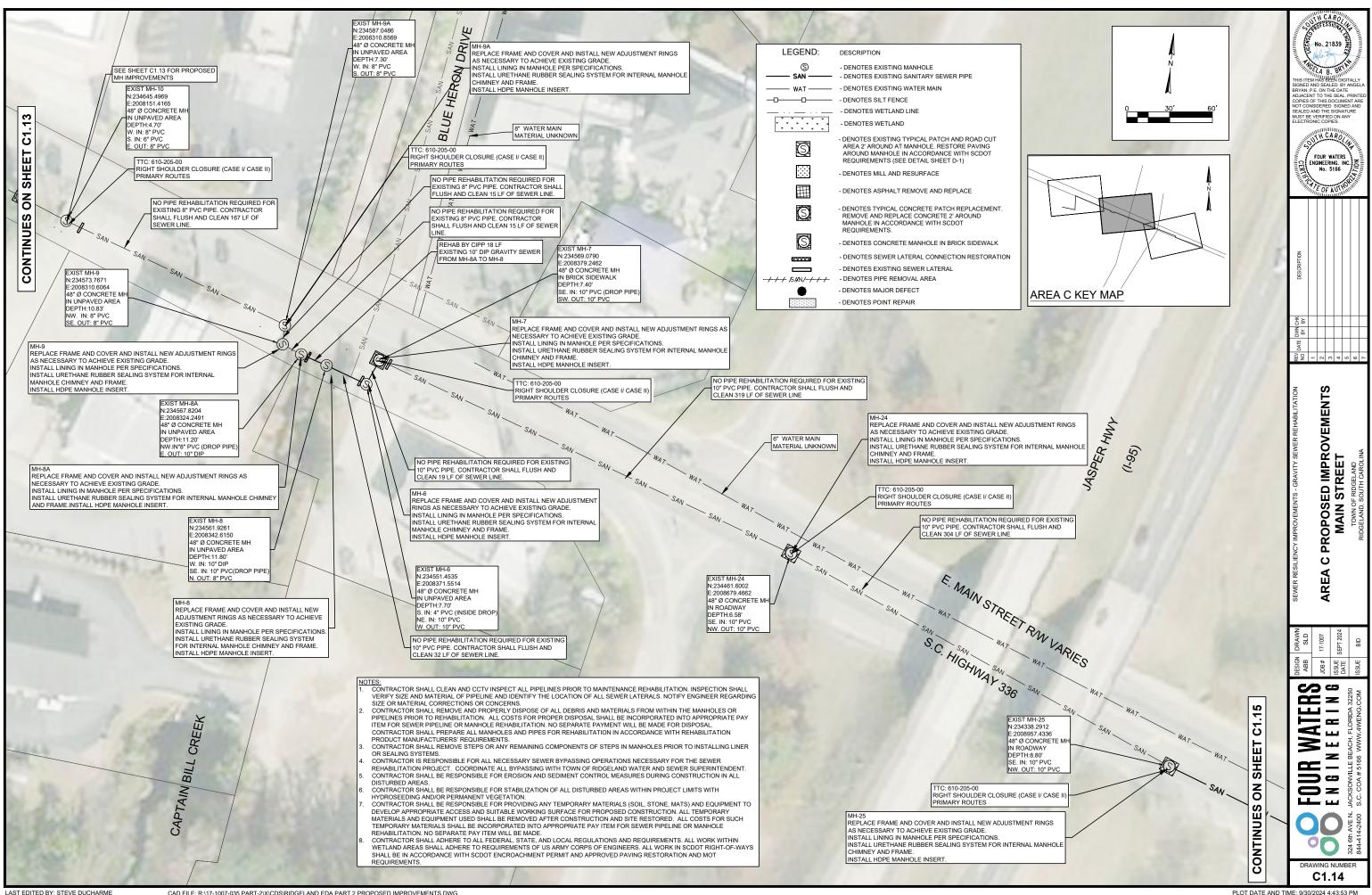


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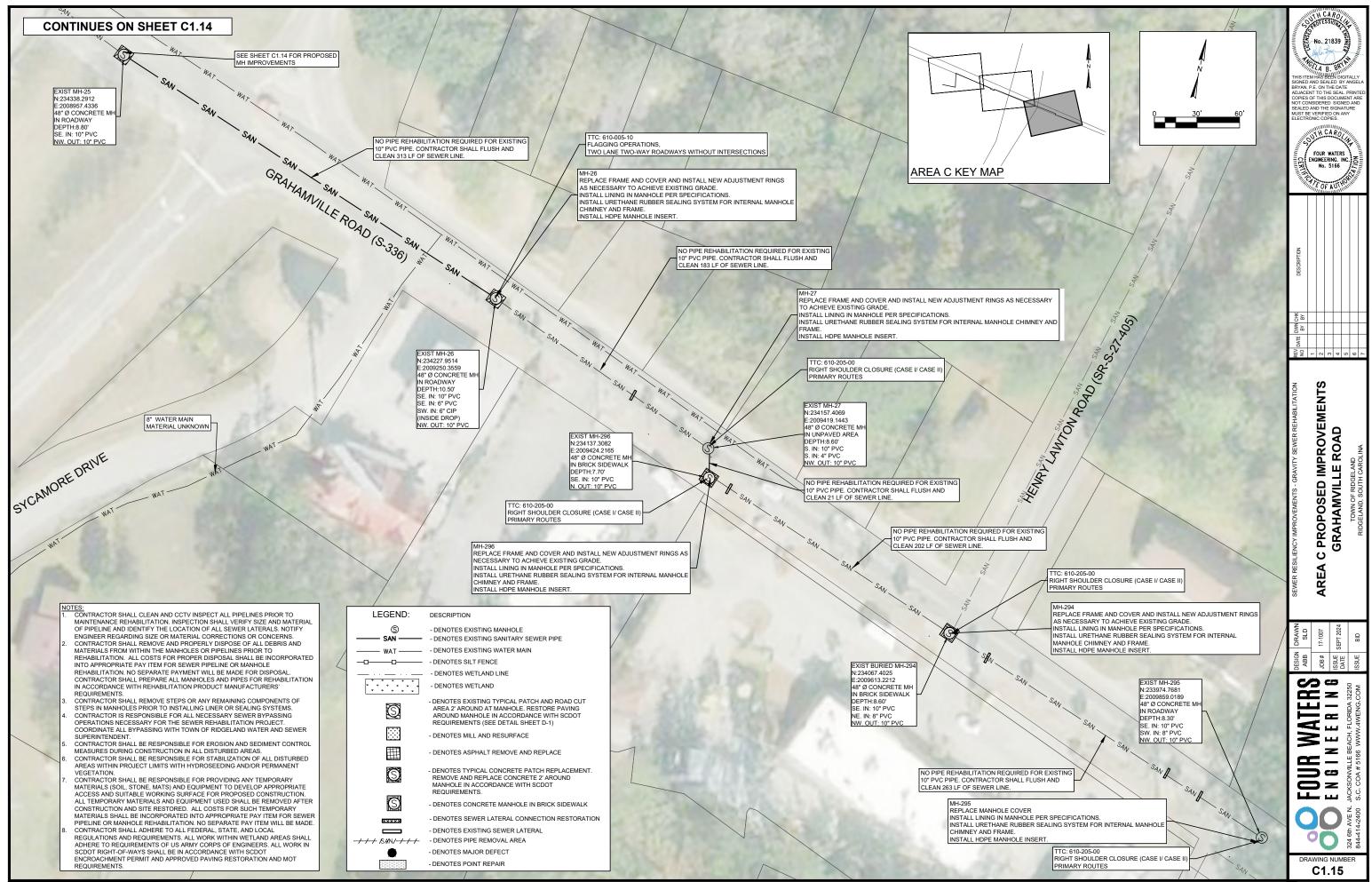
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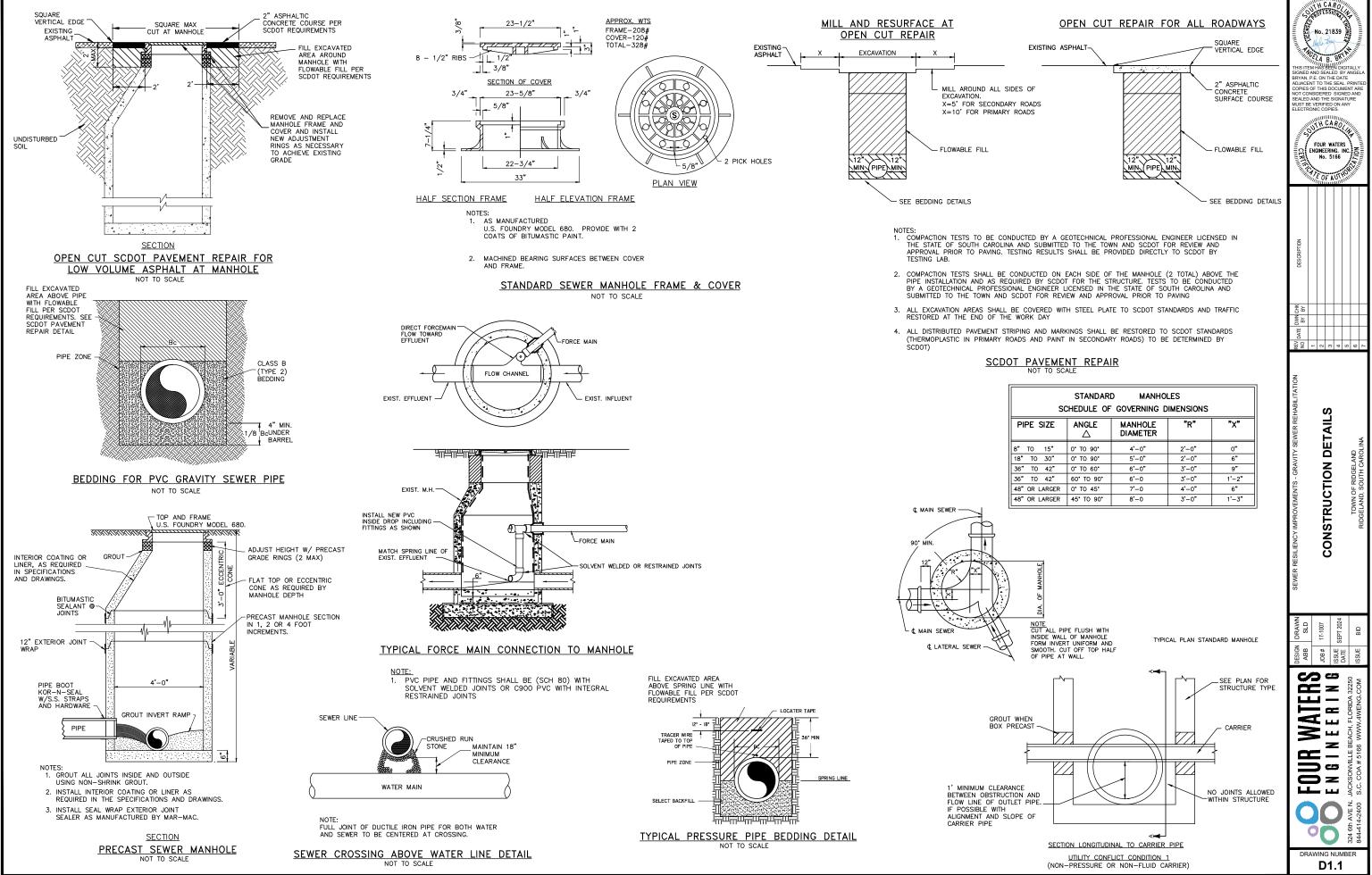
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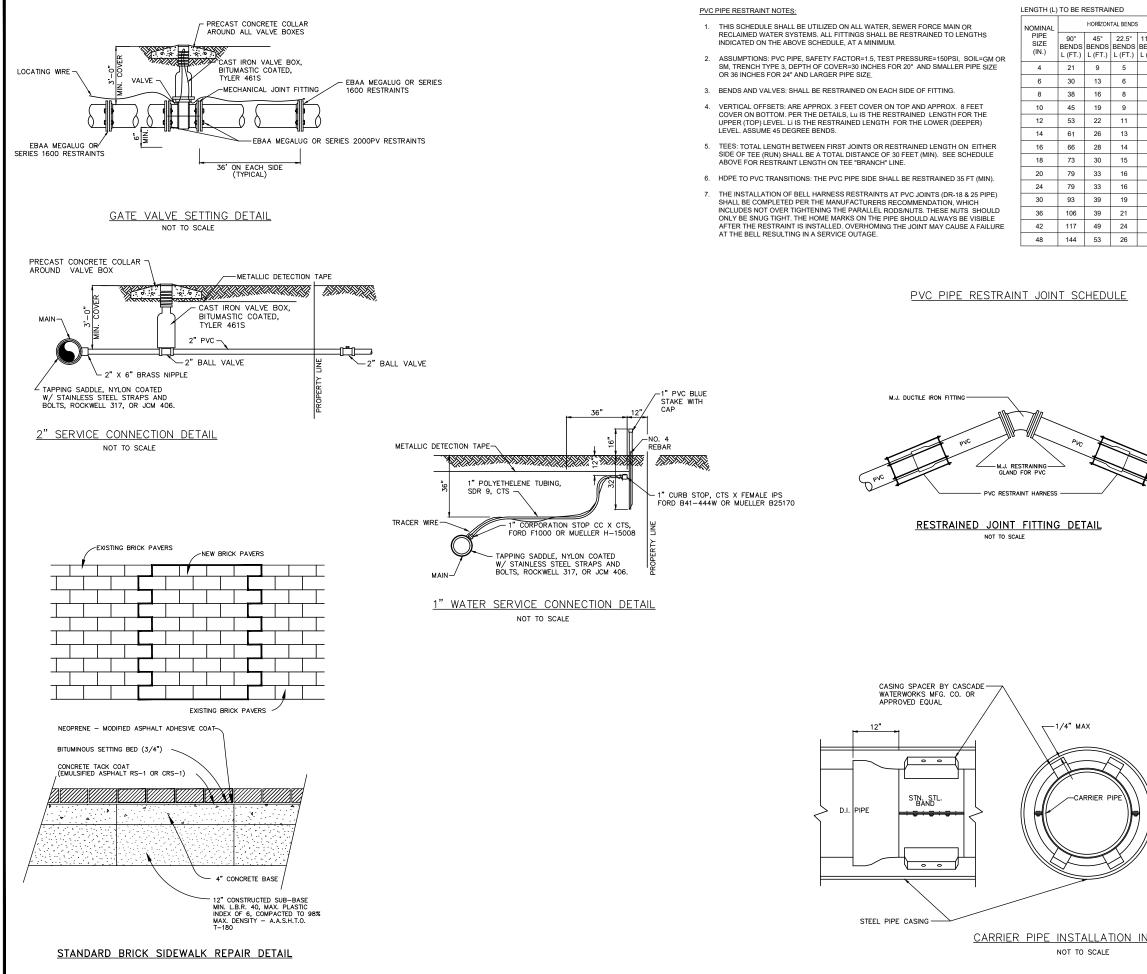
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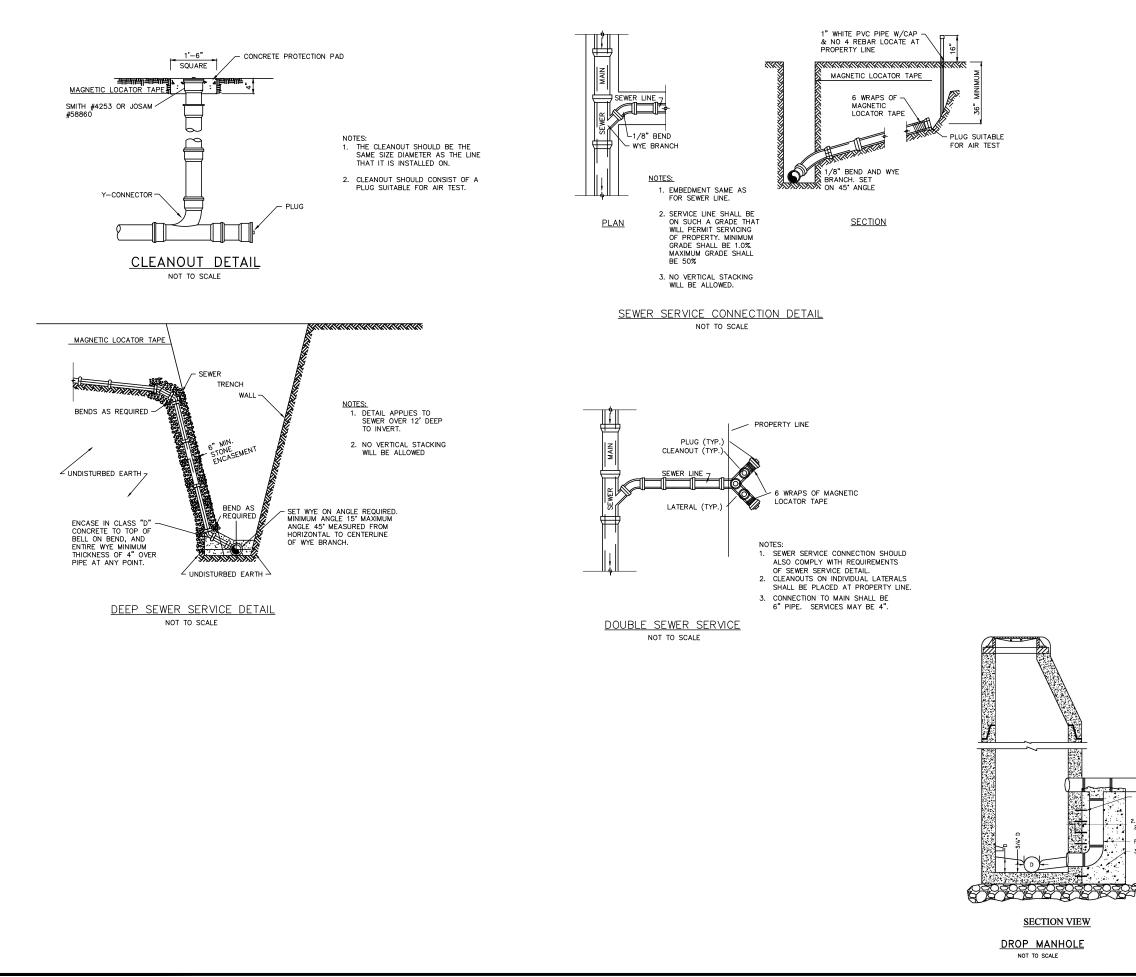


SCHEDULE OF GOVERNING DIMENSIONS							
PIPE SIZE		MANHOLE DIAMETER	"R"	"X"			
8" TO 15"	0° TO 90°	4'-0"	2'-0"	0"			
18" TO 30"	0° TO 90°	5'-0"	2'-0"	6"			
36" TO 42"	0° TO 60°	6'-0"	3'-0"	9"			
36" TO 42"	60° TO 90°	6'-0	3'-0"	1'-2"			
48" OR LARGER	0° TO 45°	7'-0	4'-0"	6"			
48" OR LARGER	45° TO 90°	8'-0	3'-0"	1'-3"			

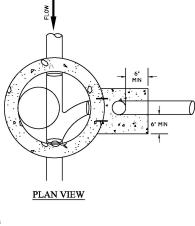


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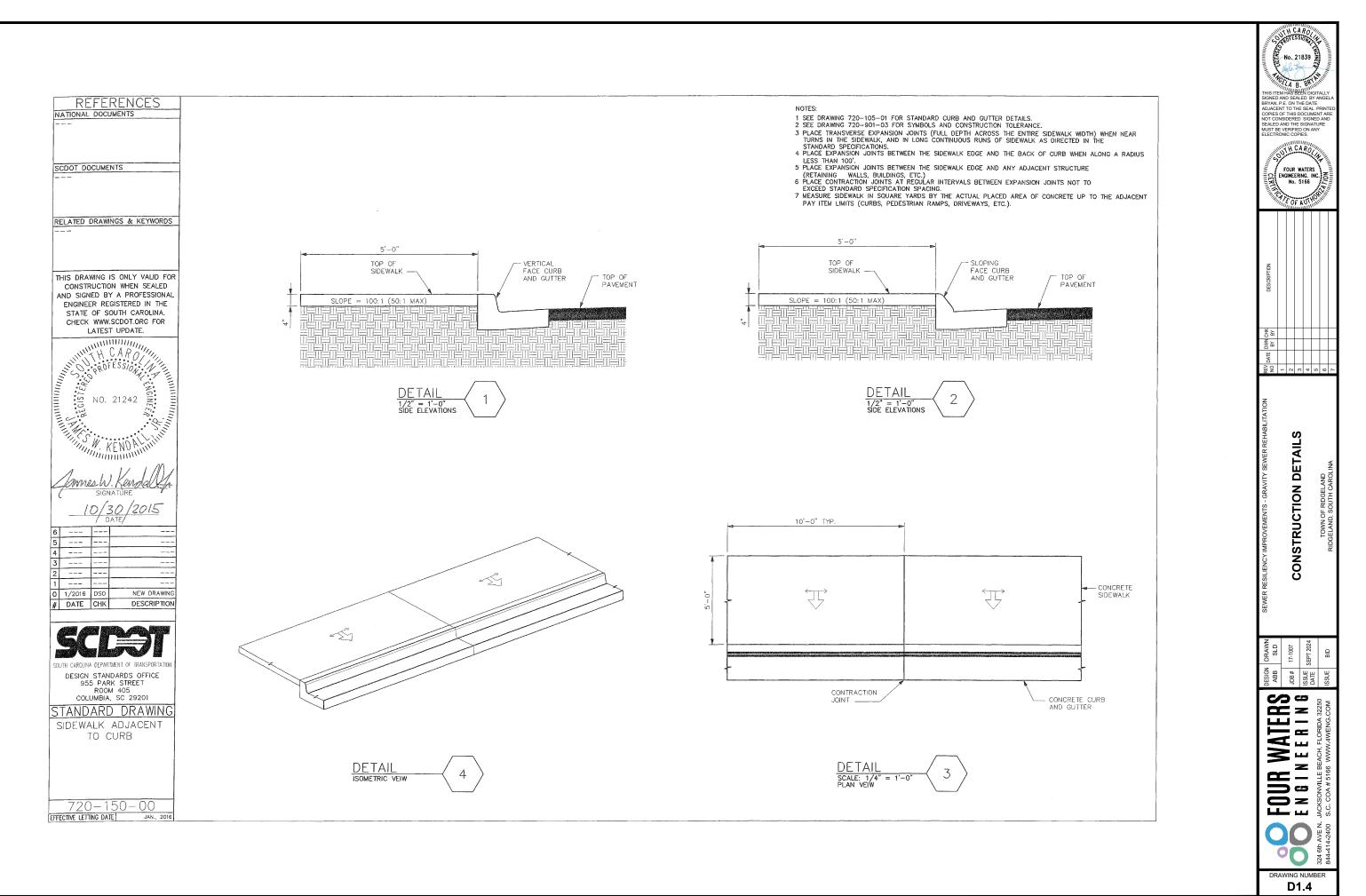






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REFERENCES	FLAGGING C	PERATIONS							
	GENERAL NOTES								
	(ALL NOTES, SPECIFICATIONS AND REQUIREMENTS ON THIS STANDARD DRAWING APPLY TO ALL SUBSEQUENT STANDARD DRAWINGS REGARDING FLAGGING OPERATIONS UNLESS OTHERWISE NOTED )								
	FLAGGING OPERATIONS -	SIGNS AND TRAFFIC CONTROL DEVICES -							
	1. KEY FEATURES RELEVANT TO FLAGGING OPERATIONS: <u>APPROACH TAPER</u> - THIS IS A ONE-LANE TWO-WAY TAPER PLACED IN THE TRAVEL LANE WHERE THE WORK ACTIVITY TAKES PLACE. THIS TAPER PRECEDES THE BUFFER SPACE AND THE WORK ACTIVITY AREA. THE LENGTH OF THIS TAPER MAY VARY FROM 50 FEET TO 100 FEET. INSTALL AND MAINTAIN NO LESS THAN FIVE (S) TRAFFIC CONTROL DEVICES EQUALLY SPACED AT 10' TO 25' INTERVALS AS NECESSARY TO CORRESPOND WITH THE LENGTH OF THE TAPER.	<ol> <li>MEASURE THE ADVANCE WARNING SIGN LOCATIONS FOR EACH APPROACH FROM THE "FLAGGER STATION" LOCATED ON THAT APPROACH.</li> <li>INSTALL THE ADVANCE WARNING SIGNS AS SPACING INTERVALS BASED UPON THE POSTED REGULATORY SPEED LIMIT OF THE ROADWAY PRIOL BEGINNING ANY WORK. THE ADVANCE WARNING SIGN SPACING INTERVALS INDICATED ARE FOR NORMAL CONDITIONS. ADJUSTMENTS TO THESE MAY BE NECESSARY DUE TO EXISTING SIGNS, INTERSECTING ROADWAYS, HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DIST/ RESTRICTIONS. SEE TABLE A.</li> </ol>							
	DOWNSTREAM TAPER - THIS TAPER, PLACED IN THE TRAVEL LANE WHERE THE WORK ACTIVITY TAKES PLACE, FOLLOWS THE WORK ACTIVITY AREA AND SERVES AS THE TERMINATION AREA FOR THE CLOSURE OF THE TRAVEL LANE. THE LENGTH OF THIS TAPER MAY VARY FROM SO FEET TO 100 FEET. INSTALL AND MAINTAIN NO LESS THAN FIVE (5) TRAFFIC CONTROL DEVICES IN THIS TAPER. FLAGGER STATION - THIS IS THE SPECIFIC LOCATION OF THE FLAGGER.	3. INSTALL ADVANCE WARNING SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH EARTH SHOULDERS AND NO LESS THAN 6 FEET FROM THE NEAR EDGE OF THE THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDERS. WHEN CURB & GUTTER IS PRESENT, INSTALL TH LESS THAN 2 FET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.							
	CLOSED LANE FLAGGER - THIS FLAGGER IS STATIONED ADJACENT TO THE FIRST TRAFFIC CONTROL DEVICE IN THE APPROACH TAPER WHO CONTROLS THE TRAFFIC THAT REQURES RELOCATION FROM THE TRAVEL LANE BEING CLOSED TO TRAFFIC. OPEN LANE FLAGGER - THIS FLAGGER IS STATIONED 100 FEET BEYOND THE LAST TRAFFIC CONTROL DEVICE IN THE DOWNSTREAM TAPER WHO	4. ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOT SIGN, ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHANNEL OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT O FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRI THE DEPARTMENT, MOUNT ALL SIGNS STRAGHT AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF THE STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF THE STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF THE STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE STRAGET OF STRAGET AND LEVEL AND WITH THE FACE OF THE SIGNS PERPENDICULAR TO THE SUFFACE OF THE SIGNS PERPENDICULAR TO STRAGET AND LEVEL AND WITH STRAGET OF THE SIGNS PERPENDICULAR TO STRAGET OF STRAGET OF STRAGET AND STRAGET OF STRAGET AND STRAGET OF STRAGET STRAGET AND STRAGET OF STRAGET STRAGET AND STRAGET STRAGET AND STRAGET STRAGET AND STRAGET STRAGET AND STRAGET ST							
	CONTROLS THE TRAFFIC OPERATING IN THE TRAVEL LANE REMAINING OPEN TO TRAFFIC. SIDE ROAD FLAGGER IS STATIONED ON AN INTERSECTING SIDE ROAD AND CONTROLS THE SIDE ROAD TRAFFIC ENTERING INTO THE ROADWARY WHERE THE WORK ACTIVITY AREA IS LOCATED.	5. REFLECTORIZE ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESC COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZE WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED WARNING SIGN WITH A WHITE COLORED PRISMATIC RETRORFLECTIVE SHEETING.							
	BUFFER SPACE - THIS AREA IS LOCATED BETWEEN THE DOWNSTREAM END OF THE APPROACH TAPER AND THE NEAREST LIMITS OF THE WORK ACTIVITY AREA AND MAY PROVIDE SOME RECOVERY SPACE FOR AN ERRANT VEHICLE. THE PRESENCE OF PERSONNEL, TOOLS, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. WITHIN THE LIMITS OF THE BUFFER SPACE IS PROHIBITED. HOWEVER, WHEN THE MINIMUM DISTANCE	6. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF NCHRP REPORT 350 OR THE AASHTO MANUAL FOR ASSESSING HARDWARE (MASH) AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES INCLUDED ON THE "AP PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED							
ORK ZONE TRAFFIC	REQUIREMENTS FOR THE BUFFER SPACE ARE UNAVAILABLE, A TRUCK MOUNTED ATTENUATOR MAY TEMPORARILY ENCROACH UPON THE BUFFER SPACE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE SECTION BELOW ENTITLED, "BUFFER SPACE", WHEN APPROVED BY THE ENGINEER. WORK ACTIVITY AREA - PERSONNEL, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. ARE PRESENT WITHIN THIS AREA TO CONDUCT THE WORK.	DEPARTMENT'S WEB SITE AT: www.scdol.org . 7. REFLECTORIZATION OF 36" TRAFFIC CONES USED DURING DAYLIGHT HOURS IS NOT REQUIRED IN THE EVENT A DAYTIME FLAGGING OPERATI INTO THE NIGHTIME HOURS, REPLACE ALL 36" TRAFFIC CONES WITH EITHER PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONE REFLECTORIZE ALL PORTABLE PLASTIC DRUMS AND 42" OVERSIZED TRAFFIC CONES WITH TYPE III OR GREATER FLEXIBLE MICROPRISMATIC							
CONTROL ENGINEER	LIMITS of the WORK ACTIVITY AREA - THIS IS THE BOUNDARY OF THE WORK ACTIVITY AREA FIRST ENCOUNTERED, FROM EITHER DIRECTION, BY MOTORISTS PASSING BY THE WORK ACTIVITY AREA IN THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC AND CONTROLLED BY THE FLAGGERS.	RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. 8. DELINEATE THE TANGENT AREA OF THE LANE CLOSURE WITH THE NECESSARY TRAFFIC CONTROL DEVICES TO MINIMIZE ENCROACHMENT BY INTO THE CLOSED TRAVEL LANE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMIT MPH OR LESS, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 25 FEET. ON ROADWAYS WITH POSTED REGULATORY SPEED LIMIT							
TH CAROLIN	APPROACH LANE - TRAFFIC APPROACHES AN INTERSECTION OR A SPECIFIC LOCATION IN THIS TRAVEL LANE.	OF 40 MPH OR GREATER, INSTALL THE TRAFFIC CONTROL DEVICES AT SPACING INTERVALS OF 50 FEET. SEE TABLE B.							
SO HOFESSIONAL T	DEPARTURE LANE - TRAFFIC DEPARTS FROM AN INTERSECTION OR A SPECIFIC LOCATION IN THIS TRAVEL LANE.	ADVANCE WARNING ARROW PANEL - 1. DURING FLAGGING OPERATIONS, AN ADVANCE WARNING ARROW PANEL SHALL OPERATE IN THE "FOUR CORNERS" CAUTION MODE WHEN LOC							
C35h NGII	MAINLINE APPROACH - THIS IS AN APPROACH TO THE WORK ACTIVITY AREA ON THE ROADWAY WHERE THE WORK ACTIVITY AREA IS LOCATED. SIDE ROADS - THESE ROADS INTERSECT THE ROADWAY ON WHICH THE WORK ACTIVITY AREA IS LOCATED.	OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS SPECIFIC TO A FLAGGING OPERATION. OPERATION OF AN ADVANCE ARROW PANEL IN AN ARROW, CHEVRON OR ANY OTHER TYPE OF CAUTION MODE OTHER THAN THE "FOUR CORRERS" CAUTION MODE WH WITHIN OR IN BETWEEN THE LIMITS OF THE ADVANCE WARNING SIGN ARRAYS AS SPECIFIED HEREINBEFORE IS PROHIBITED.							
NO. 24242 E	LIMITS of the INTERSECTION - THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION OF STOP BARS WHEN PRESENT, WHEN STOP BARS ARE ABSENT, THE LIMITS OF OR THE PHYSICAL AREA WITHIN AN INTERSECTION IS DEFINED BY THE LOCATION POINTS WHERE THE CORNER RADIN BETWEEN ADJACENT ROADWAY APPROACHES THE TO THE EDGE OF PAVENENT OR THE EDGE OF TRAVEL LANE ADJACENT TO THE EDGE OF PAVENENT OF EACH ROADWAY	2. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION SPECIFIC LOCATION OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMEN SIGHT DISTANCE RESTRICTIONS.							
McCONNE!	2. INSTALL, CONDUCT AND MAINTAIN FLAGGING OPERATIONS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, THE STANDARD DRAWINGS, THE MUTCD AND THE "SOUTH CARDLINA FLAGGER'S HANDBOOK" UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. INSTALL ALL SIGNS RELATIVE TO A FLAGGING OPERATION PRIOR TO INITIATION OF THE OPERATION AND REMOVE OR COVER ALL SIGNS IMMEDIATELY UPON TERMINATION OF THE OPERATION. EQUIP EACH FLAGGER WITH A 24" X 24" STOP/SLOW PADDLE MOUNTED ON A RIGD HANDLE WITH A MUNIMUM LENGTH OF 7 FEET. THE DEPARTMENT PROHBITS THE	TRUCK MOUNTED ATTENUATOR - 1. A TRUCK MOUNTED ATTENUATOR IS OPTIONAL. UTILIZATION OF A TRUCK MOUNTED ATTENUATOR SHOULD BE CONSIDERED WHEN THE MINIMA REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS. HOWEVER, A TRAILER MOUNTED ATVANCE WAR PANEL MAY BE UTILIZED IN PLACE OF A TRUCK MOUNTED ATTENUATOR DURING TRAFFIC CONTROL SETUPS FOR WORK ACTIVITIES SUCH A							
12 12 00	USE OF FLAGS EXCEPT DURING EMERGENCY SITUATIONS. 3. LANE CLOSURES FOR FLAGGING OPERATIONS ARE RESTRICTED TO A MAXIMUM DISTANCE OF 2 MILES UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE WORK LIMITS WILL COMPLY WITH THE CONTRACT AND SHALL REQUIRE THE ENGINEER'S APPROVAL PRIOR TO BEGINNING THE WORK.	PAREL MAT BE UTELEED IN PLACE OF A TRUCK MOUNTED ATTENDATION DURING TRAFTIC CONTROL SETUPS FOR WORK ACTIVITIES SUCH AS CONCRETE PLACEMENT OPERATIONS WHEN APPROVED BY THE ENGINEER. 2. WHEN UTILIZING A TRUCK MOUNTED ATTENUATOR, ENSURE THE TRUCK HAS THE CORRECT GROSS VEHICULAR WEIGHT (GVM) REQUIRED FOR T OF TRUCK MOUNTED ATTENUATOR BEING UTILIZED. A DIRECT TRUCK MOUNTED TRUCK MOUNTED ATTENUATOR, A UNIT MOUNTED AND ATTACK							
SIGNATURE 6/1/2018	<ol> <li>INSTALL AND MAINTAIN THE PROPER ARRAY OF ADVANCE WARNING SIGNS FOR EACH "MAINLINE APPROACH" WHEN A FLAGGING OPERATION IS IN PLACE AND ACTIVE. WHEN NECESSARY TO RELOCATE THE "FLAGER STATION" WHILE ACTIVELY MAINTAINING THE FLAGGING OPERATION, INSTALL AN ADDITIONAL ARRAY OF ADVANCE WARNING SIGNS AT THE LOCATION RELATIVE TO THE NEW "FLAGGER STATION" AND REMOVE THE ORIGINAL ARRAY OF ADVANCE WARNING SIGNS IMMEDIATELY UPON COMPLETION OF THE RELOCATION OF THE FLAGGER TO THE NEW "FLAGGER STATION".</li> <li>INSTALL ALL ADVANCE WARNING SIGNS IMMEDIATELY PRIOR TO INITIATING A FLAGGING OPERATION AND REMOVE OR COVER ALL SIGNS IMMEDIATELY UPON TERMINATION OF THE OPERATION.</li> <li>MAINTAIN TWO-WAY RADIO COMMUNICATIONS BETWEEN ALL FLAGGERS.</li> </ol>	BRACKETS OR SIMILAR DEVICES CONNECTED TO THE FRAME OF THE TRUCK, REQUIRES A TRUCK WITH A MINIMUM GVM OF 15,000 POUNDS WEIGHTJ UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. A TRALER TOWED TRUCK MOUNTED ATTENUATOR, A TRALER TYPE UNIT TO BEHIND AND ATTACHED TO THE FRAME OF THE TRUCK VIA A PINTLE HOOK / HITCH, REQUIRES A TRUCK WITH A MINIMUM GVM OF 10,000 (ACTUAL WEIGHT) UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS I NECESSARY, CONTAIN THE MATERIAL WITHIN A STRUCTURE CONSTRUCTED OF STELL. CONSTRUCT THIS STELL STRUCTURE TO THE VEHICLE AS I FOUR (4) SIDES AND A BOTTOM. A TOP IS OPTIONAL, BOLT THIS STELL STRUCT MES OF THE TRUCK, UTILIZE A SUFFICIENT NUM FASTEMERS FOR ATTACHMENT OF THE STELL STRUCTURE TO THE FRAME OF THE TRUCK. UTILIZE A SUFFICIENT NUM FASTEMERS FOR ATTACHMENT OF THE STELL STRUCTURE TO THE FRAME OF THE TRUCK DURING WITH STELL STRUE WITH STELL STRUCTURE TO THE FRAME OF THE TRUCK DURING AN IMPACT UPON THE TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL RENFOR FRAME OF THE TRUCK DURING AN IMPACT UPON THE TRUCK MOUNTED ATTENUATOR. UTILIZE EITHER DRY LOOSE SAND OR STEEL RENFOR							
	NIGHTTIME FLAGGING OPERATIONS -	CONCRETE FOR BALLAST MATERIAL WITHIN THE STELL STRUCTURE TO ACHIEVE THE NECESSARY WEIGHT. THE BALLAST MATERIAL SHALL CONTAINED WITHIN THE CONFINES OF THE STEEL STRUCTURE IN ITS ENTIRETY AND SHALL NOT PROTRUDE FROM THE STEEL STRUCTURE I MANNER.							
	1. EACH FLAGGER SHALL WEAR SAFETY APPAREL IN COMPLIANCE WITH THE REQUIREMENTS OF ANSI/ ISEA 107 STANDARD PERFORMANCE FOR CLASS 3 RISK EXPOSURE, LATEST REVISION, WHEN CONDUCTING NIGHTTIME FLAGGING OPERATIONS.	MANNER. 3. LOCATE THE TRUCK MOUNTED ATTENUATOR APPROXIMATELY 100 FEET IN ADVANCE OF THE "WORK ACTIVITY AREA" UNLESS OTHERWISE D THE ENGINEER.							
	2. ILLUMINATE EACH "FLAGGER STATION" WITH ANY COMBINATION OF PORTABLE LICHTS, STANDARD ELECTRIC LIGHTS, EXISTING STREET LIGHTS, ETC. THAT WILL PROVIDE A MINIMUM ILLUMINATION LEVEL OF 108 Lx OR 10 fc WHEN CONDUCTING NICHTIME FLAGGING OPERATIONS.	THE ENGINEER. 4. PROVIDE, INSTALL AND MAINTAIN THE TRUCK MOUNTED ATTENUATOR AS SPECIFIED BY THE STANDARD SPECIFICATIONS AND AS DIRECTED BY ENGINEER.							
4-27-18 WEM REVISED FLAGGING OPERATIONS NOTE 1	3. SUPPLEMENT EACH ARRAY OF ADVANCE WARNING SIGNS ON EACH "MAINLINE APPROACH" WITH A TRALER MOUNTED CHANGEABLE MESSAGE SIGN. THESE CHANGEABLE MESSAGE SIGNS ARE NOT REQUIRED ON THE "SIDE ROADS" INTERSECTING THE ROADWAY WHERE THE "WORK ACTIVITY AREA" IS LOCATED.	<u>GENERAL</u> - 1. CONDUCT THE WORK IN SUCH A MANNER SO AS NOT TO ENCROACH ONTO THE ADJACENT TRAVEL LANE OPEN TO TRAFFIC. INSTALL, MAIN ADJUST THE TRAFFIC CONTROL DEVICES AS NECESSARY TO ENSURE PROPER DELINEATION OF THE WORK AREA. 2. IF WORK IS BEING CONDUCTED AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, SEPARATE THE TWO LOCATIONS BY NO LESS THAN 2							
1-14-15 JCS NEW DRAWING DATE CHK DESCRIPTION	ALSO, THESE CHANGEABLE MESSAGE SIGNS ARE NOT REQUIRED DURING DAYTIME FLAGGING OPERATIONS UNLESS OTHERWISE DIRECTED BY THE STANDARD DRAWINGS. INSTALL THE CHANGEABLE MESSAGE SIGNS IN ADVANCE OF THE ADVANCE WARNING SIGN ARRAYS. THE MESSAGES SHOULD BE "PREPARE TO STOP", "FLAGGER AHEAD". A TRUCK MOUNTED CHANGEABLE MESSAGE SIGN IS NOT AN ACCEPTABLE ALTERNATIVE TO A TRALER MOUNTED CHANGEABLE MESSAGE SIGN DURING NIGHTTIME FLAGGING OPERATIONS.								
SCAT	4. UTILIZE PORTABLE PLASTIC DRUMS OR 42" OVERSIZED TRAFFIC CONES IN PLACE OF 36" STANDARD TRAFFIC CONES DURING NIGHTTIME FLAGGING OPERATIONS.	THE LAST TRAFFIC CONTROL DEVICE IN THE "DOWNSTREAM TAPER" OF THE FIRST LANE CLOSURE TO THE FIRST TRAFFIC CONTROL DEVIC "APPROACH TAPER" OF THE SECOND LANE CLOSURE ENCOUNTERED BY A MOTORIST UNLESS OTHERWISE DIRECTED BY THE ENGINEER. 3. THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATE IF THE TRAFFIC CON PROPERLY INSTALLED AND MAINTAINED AS DIRECTED BY THE STANDARD SPECIFICATIONS. THE SPECIAL PROVISIONS. THE STANDARD DRAWIN							
SOUTH CARDLINA DEPARTMENT OF TRANSPORTATION	BUFFER SPACE - 1. The minimum distance requirements for the "buffer space" are based upon the legal posted regulatory speed limit of the roadway	PLANS AND/OR THE ENGINEER.							
DESIGN STANDARDS OFFICE 955 PARK STREET	PRIOR TO BEGINNING THE WORK.								
ROOM 405 COLUMBIA, SC 29201	SPEED LIMIT DISTANCES LOW SPEED 200 FEET								
STANDARD DRAWING	5 35 MPH	SIGN PLACEMENT INTERVALS TRAFFIC CONTROL DEVICE SPACING INTERVA SPEED LIMIT * WORK ACTIVITY / BUFFER SPACE AREAS							
	INTERMEDIATE SPEED 300 FEET 40 - 50 MPH	4 35 MPH SPEED LIMIT SPACING INTERVALS							
FLAGGING OPERATIONS	HIGH SPEED 400 FEET 55 MPH	CONSPEED CON							
WO-LANE TWO-WAY	2. THE PRESENCE OF PERSONNEL, TOOLS, MATERIALS, EQUIPMENT, WORK VEHICLES, ETC. WITHIN THE LIMITS OF THE "BUFFER SPACE" IS PROHIBITED. A TRUCK MOUNTED ATTENNATOR IS THE ONLY WORK VEHICLE THAT MAY TEMPORARILY ENCROACH UPON THE "BUFFER SPACE" IN ACCORDANCE WITH THE CONDITIONS SPECIFIED IN THE FOLLOWING NOTE WHEN APPROVED BY THE ENGINEER. SEE NOTE NO. 3.	* INTERMEDIATE SPEED 40 - 55 MOH 50 FEET							
PRIMARY & SECONDARY ROUTES	3. WHEN THE MINIMUM DISTANCE REQUIREMENTS FOR THE "BUFFER SPACE" ARE UNAVAILABLE DUE TO FIELD CONDITIONS, IT MAY BE NECESSARY FOR A TRUCK MOUNTED ATTENUATOR TO TEMPORARILY ENCROACH UPON THE "BUFFER SPACE" WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED ATTENUATOR IS THE ONLY VEHICLE PRIMITED TO TEMPORARILY ENCROACH UPON THE "BUFFER SPACE" AND THIS ENCROACHMENT IS ONLY PERMITTED	* REGULATORY POSTED SPEED LIMIT PRIOR TO							
610-005-00	WHEN ALL REASONABLE OPTIONS TO AVOID DDING SO HAVE BEEN EXHAUSTED. WHEN ENCROACHMENT UPON THE "BUFFER SPACE" IS APPROVED BY THE ENGINEER, MINIMIZE THE TIME DURATION OF THE ENCROACHMENT BY REMOVAL OF THE TRUCK MOUNTED ATTENUATOR FROM THE "BUFFER SPACE" AT THE FIRST OPPORTUNITY THE MINIMUM DISTANCE REQURRENTS FOR THE "BUFFER SPACE" BECOME AVAILABLE.	" BEGINNING WORK							
The second se	THIS DRAWING IS NOT TO SCALE								



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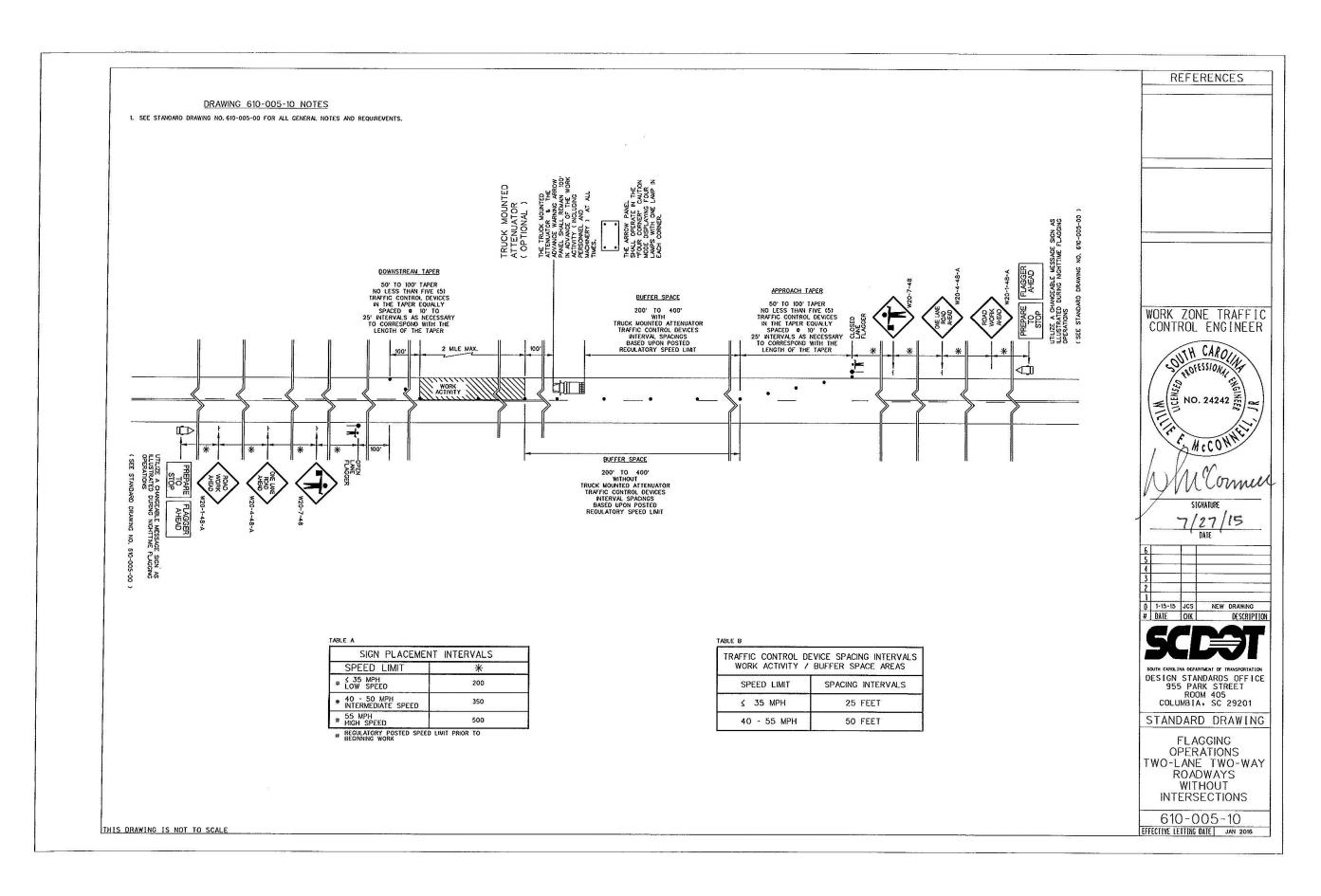
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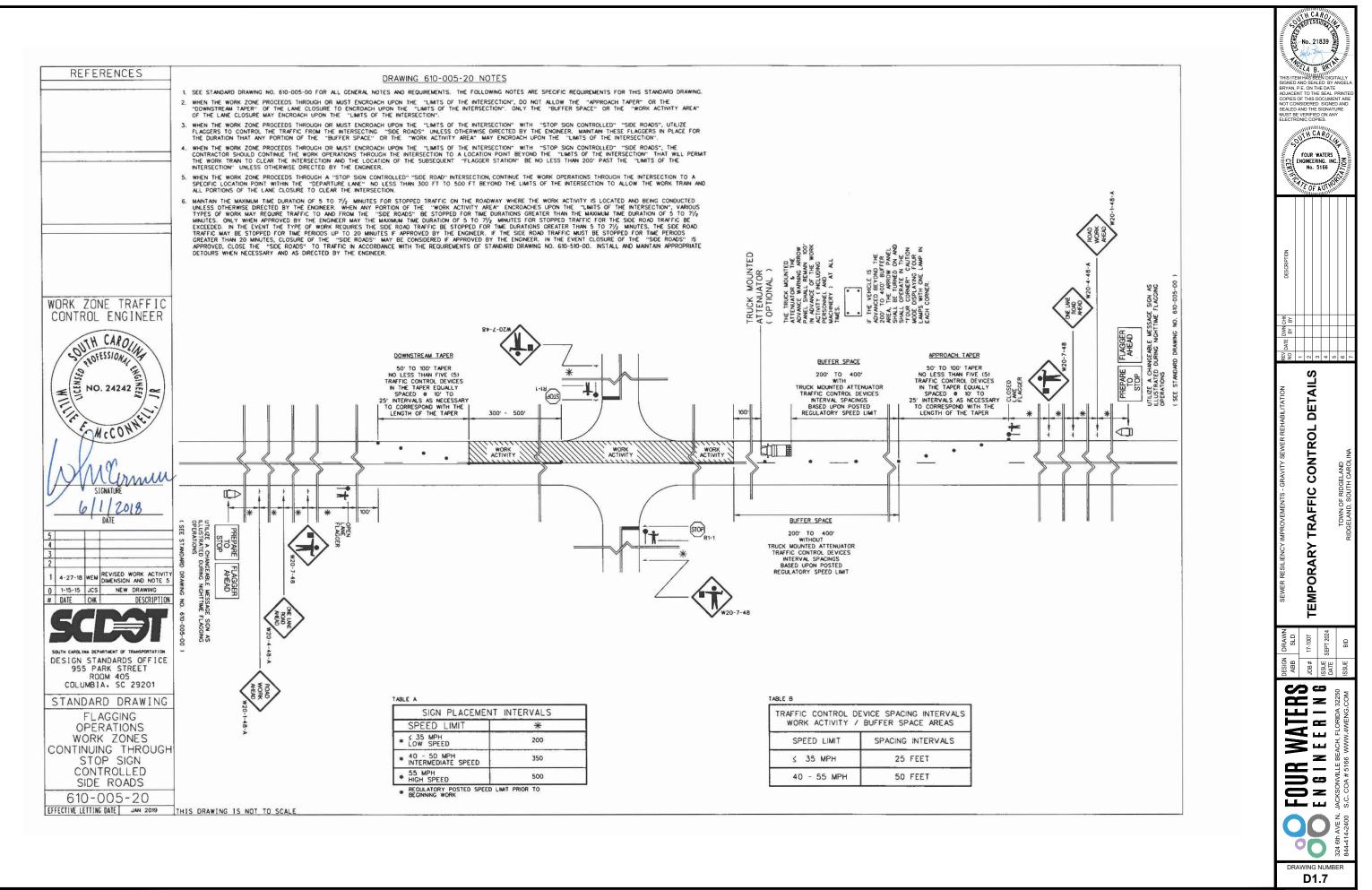
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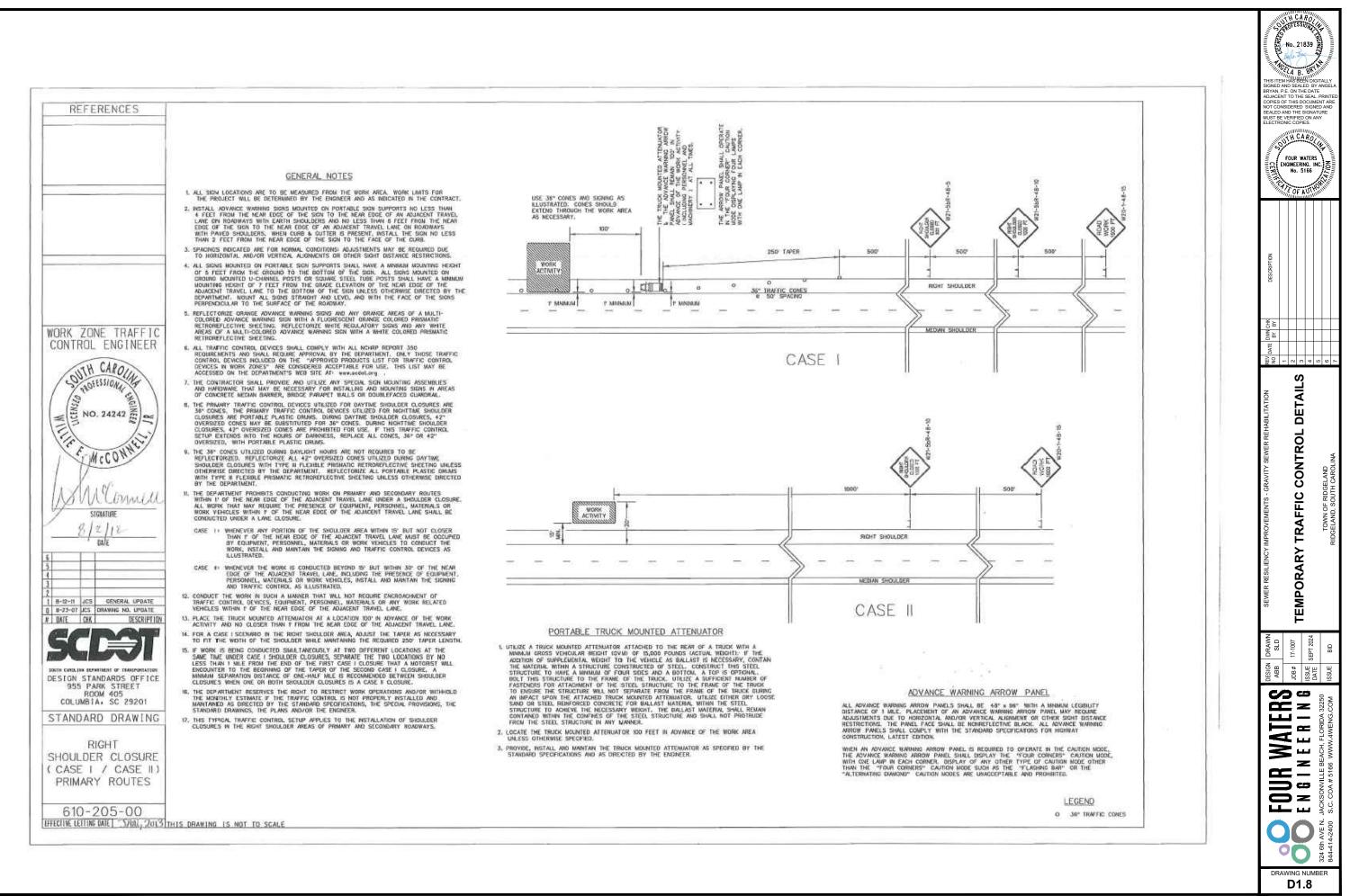
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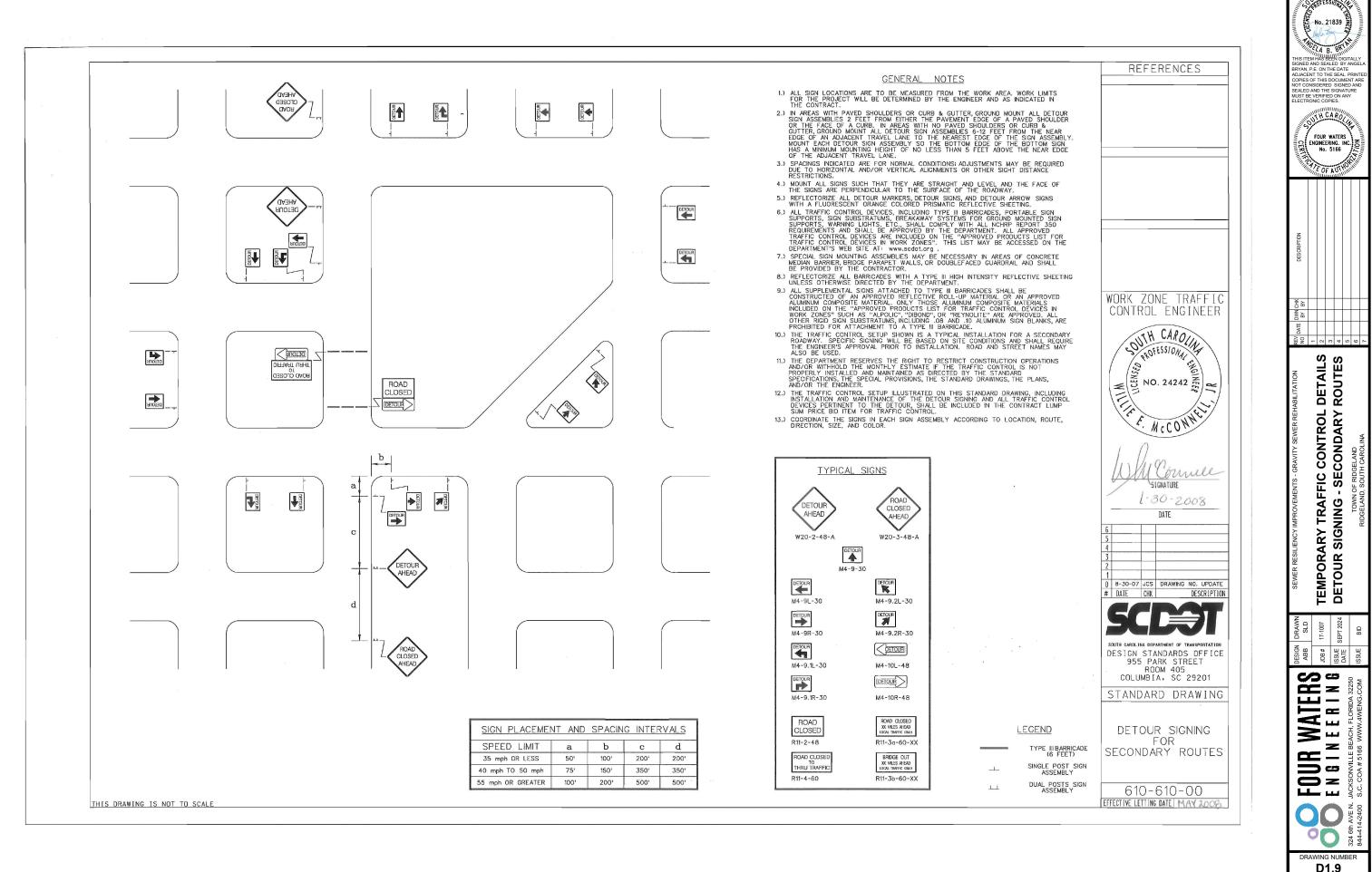


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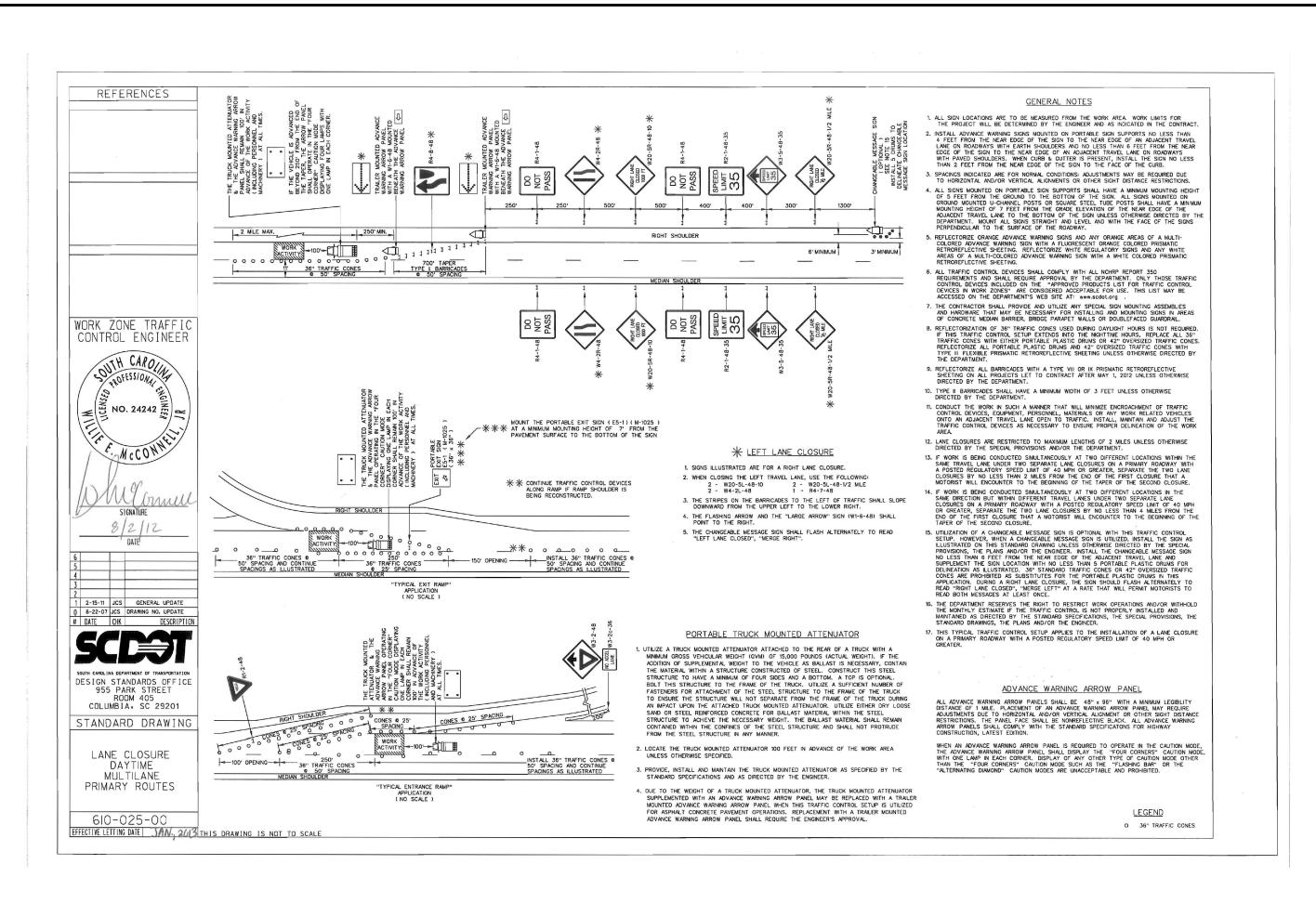




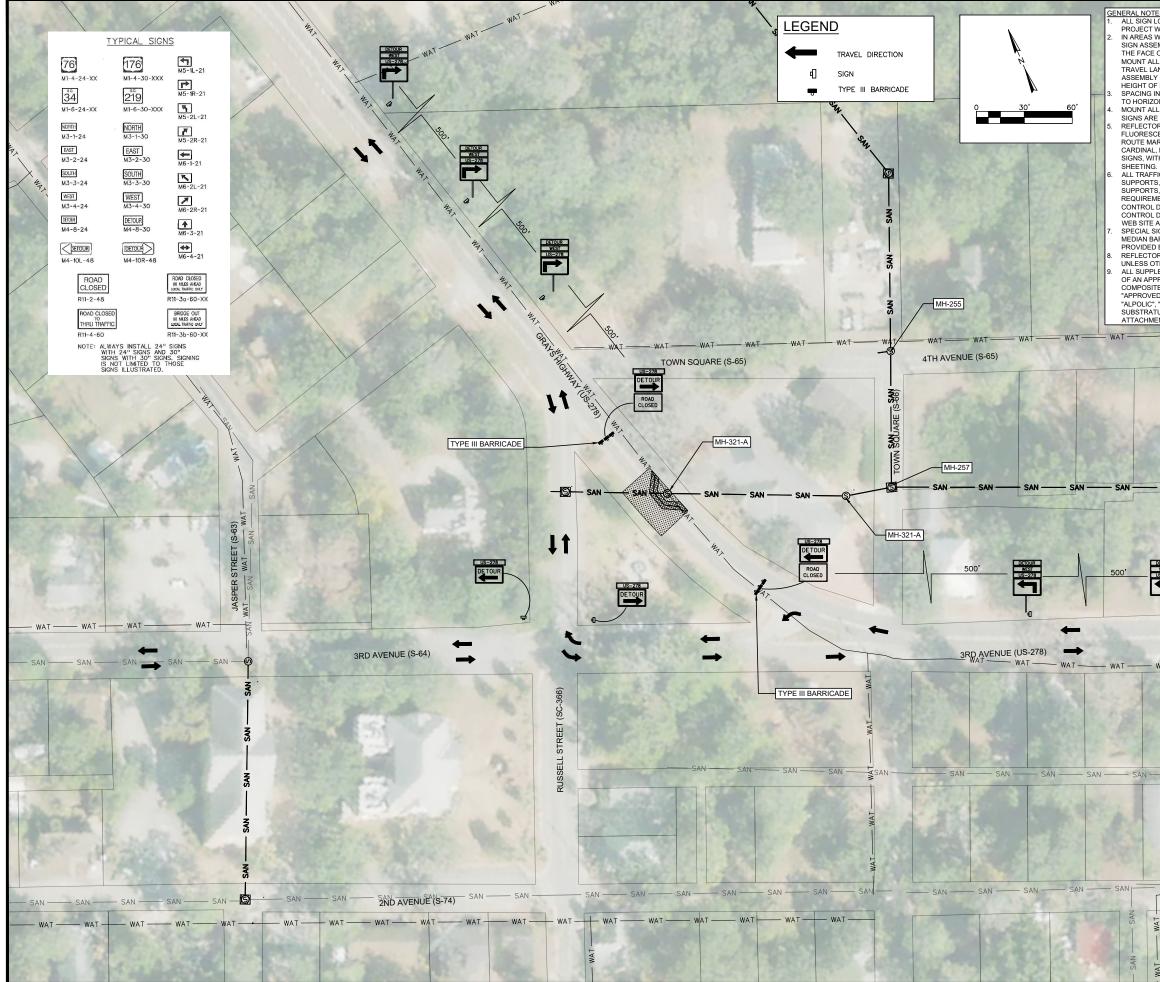




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 GENERAL NOTES

 1. ALL SIGN LOCATIONS ARE TO BE MEASURED FROM WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.

 2. IN AREAS WITH PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 2 FEET FROM EITHER THE PAVEMENT EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB. IN AREAS WITH NO PAVED SHOULDERS OR CURB & GUTTER, GROUND MOUNT ALL DETOUR SIGN ASSEMBLIES 6-12 FEET FROM THE NEAR EDGE OF AN ADJACENT TRAVEL LANE TO THE NEAREST EDGE OF THE SIGN ASSEMBLY. MOUNT EACH DETOUR SIGN ASSEMBLY SO THE BOTTOM EDGE OF THE BOTTOM SIGN HAS A MINIMUM MOUNTING HEIGHT OF NO LESS THAN 5 FEET ABOVE THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.

 2. SPACING INDICATED ARE FOR MORTAL CONDITIONS: ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT RESTRICTIONS.

 4. MOUNT ALL SIGNS SUCH THAT THEY ARE STRAIGHT AND LEVEL AND THE FACE OF THE SIGNS ARE PERPENDICUL AR TO THE SURFACE OF THE RODAWAY

SIGNS ARE FERFENDICULAR TO THE SURVACE OF THE ROADWAY. REFLECTORIZE ALL DETOUR MARKERS, DETOUR SIGNS AND DETOUR ARROW SIGNS WITH FLUORESCENT ORANGE COLORED PRISMATIC REFLECTIVE SHEETING. REFLECTORZE ALL ROUTE MARKER SIGNS AND ALL AUXILIARY SIGNS, INCLUDING BUT NOT LIMITED TO THE CARDINAL, DIRECTIONAL, ADVANCE TURN ARROW AND DIRECTIONAL ARROW AUXILIARY SIGNS, WITH A TYPE III HIGH INTENSITY ENCAPSULATED GLASS BEAD REFLECTIVE SHEETING.

SHEETING. ALL TRAFFIC CONTROL DEVICES INCLUDING TYPE III BARRICADES, PORTABLE SIGN SUPPORTS, SIGN SUBSTRATUMS, BREAKAWAY SYSTEMS FOR GROUND MOUNTED SIGN SUPPORTS, WARNING LIGHTS ETC., SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL BE APPROVED BY THE DEPARTMENT. ALL APPROVED TRAFFIC CONTROL DEVICES ARE INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES". THIS LIST MAY BE ACCESSED ON THE DEPARTMENTS WEB SITE AT: WWW.SCDOT.ORG.

VEB OTE ALL WWW.SUDULOKG. SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLE FACED GUARDRAIL AND SHALL BE PROVIDED BY THE CONTRACTOR.

REFLECTORIZED ALL BARRICADES WITH A TYPE III HIGH INTENSITY REFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. ALL SUPPLEMENTAL SIGNS ATTACHED TO TYPE III BARRICADES SHALL BE CONSTRUCTED OF AN APPROVED REFLECTIVE ROLL-UP MATERIAL OR AN APPROVED ALUMINUM

ALL SUPPLEMENTAL SIGNS ATTACHED TO TYPE III BARRICADES SHALL BE CONSTRUCTED OF AN APPROVED REFLECTIVE ROLL-UP MATERIAL OR AN APPROVED ALUMINUM COMPOSITE MATERIAL. ONLY THOSE ALUMINUM COMPOSITE MATERIALS INCLUDED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" SUCH AS "ALPOLIC", "DIBOND", OR "REYNOLITE" ARE APPROVED. ALL OTHER IGID SIGN SUBSTRATUMS, INCLUDING. 08 AND 10 ALUMINUM SIGN BI ANKS ARE PROHIBITED FOR

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SUBSTRATUMS, INCLUDING .08 AND .10 ALUMINUM SIGN BLANKS ARE PROHIBITED FOR ATTACHMENT TO A TYPE III BARRICADE

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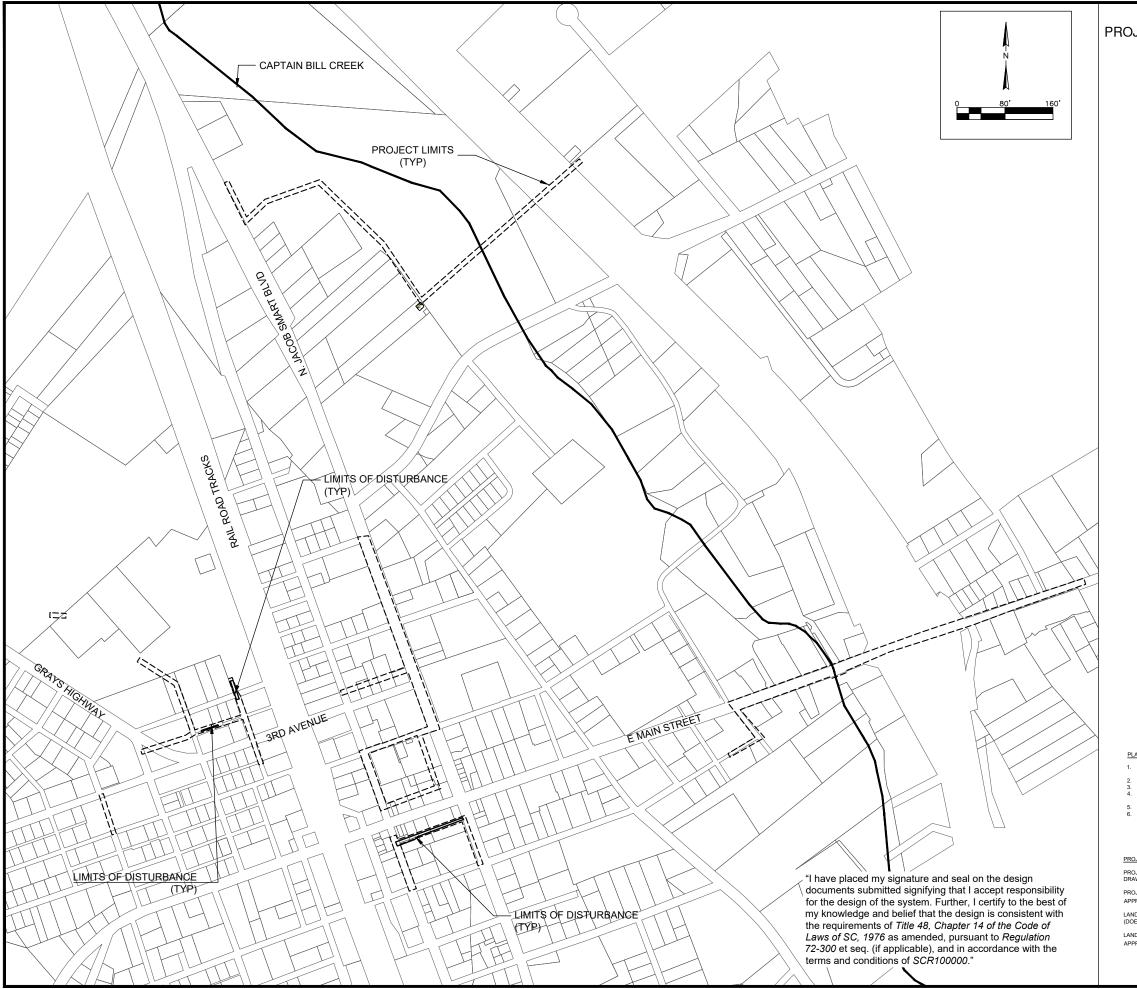
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LAST EDITED BY: STEVE DUCHARME

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# PROJECT LIMIT AND LAND DISTURBANCE LIMITS SCALE 1" = 80'

SCDHEC SEDIMENT AND EROSION CONTROL STANDARD NOTES

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROGEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERNIS MAY BE NECESDARY TO INSTALL TEMPORARY BALOPE MAINS DURING CONSTRUCTION. TEMPORARY BERNIS MAY BE NECED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (4) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
   WHERE STABILIZATION BY THE 14TH DAY IS PRECLIDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. • WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE STEE TE TEMPORARIUS CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY, OR INCORRECTLY. THE PERIMITER UNST ADDRESS THE INCESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- 4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTLITY CONSTRUCTION, ALL DISTURBED AREAS SHALL BE CLEARED, GRADED, NO STABILZED WITH GRASSING MINEDATELY AFTER THE UTLITY INSTALLATION FILL, COVER, AND TEAPIORARY SEEDING AT THE ENC OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOLD BE FILTERED TO REMOVE SEDINGHTD BEFORE BEINED FUNCTION OF THE STATE.
- 5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION ALL ELEMENT CONTINUE DEVICES OFFILE DE PROJEKTET MAINT INTRE JUDINIS ALL PHASES OF CONSTRUCTION UNITL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS AHAVE BEEN STABILIZED ADDITIONAL CONTROL DEVICES MAY ER ERQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION ANDORO FOFFIES ESUMENTATION ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- 6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUDSICIL FROM PAVEIRENT, AS MAY BE REQUIRED.
- . RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFPASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- 8. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPP RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR TABLE OUTLES.
- 9. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANT BE MINITANED BETWEEN THE INSTITUED RAFE AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- 10. LITTER, CONSTRUCTION DEBRIS, OLES, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- 11. A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STRALIZATION IS REACHED.
- 12. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H-11V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS, WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EDUIVALENT OR BETTRE TREATMENT PRIOR TO DISCHARGE:
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND
   OTHER CONSTRUCTION MATERIALS;
   FUELS, OILS, OR OTHER POLILITANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT ANDOR SCS WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENVER PRACTICABLE. IF MPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE STUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURE 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

### PLANNED SEQUENCE OF OPERATIONS:

- CLEARING AND GRUBBING OF AREAS NECESSARY FOR INSTALLATION OF SILT FENCE AND INLET PROTECTION PER CONSTRUCTION PLANS. INSTALLATION OF SEWER MAIN AND SEWER LATERALS PER CONSTRUCTION PLANS REPAVEMENT OF ROADWAY SURFACE AS PER CONSTRUCTION PLANS INSTALLATION OF HYDROSEEDING AND/OR SOD FOR PERMANENT STABILIZATION OF DISTUBERD ADFAS DISTURBED AREAS
- MAINTAIN GRASS SURFACE.

 REMOVE TEMPORARY SEDIMENT CONTROL FEATURES ONCE FINAL STABALIZATION IS OBTAINED.

## PROJECT LIMITS NOTES:

PROJECT LIMITS DETERMINED BY RIGHT-OF-WAY DIMENSIONS AS SPECIFIED AND SHOWN ON

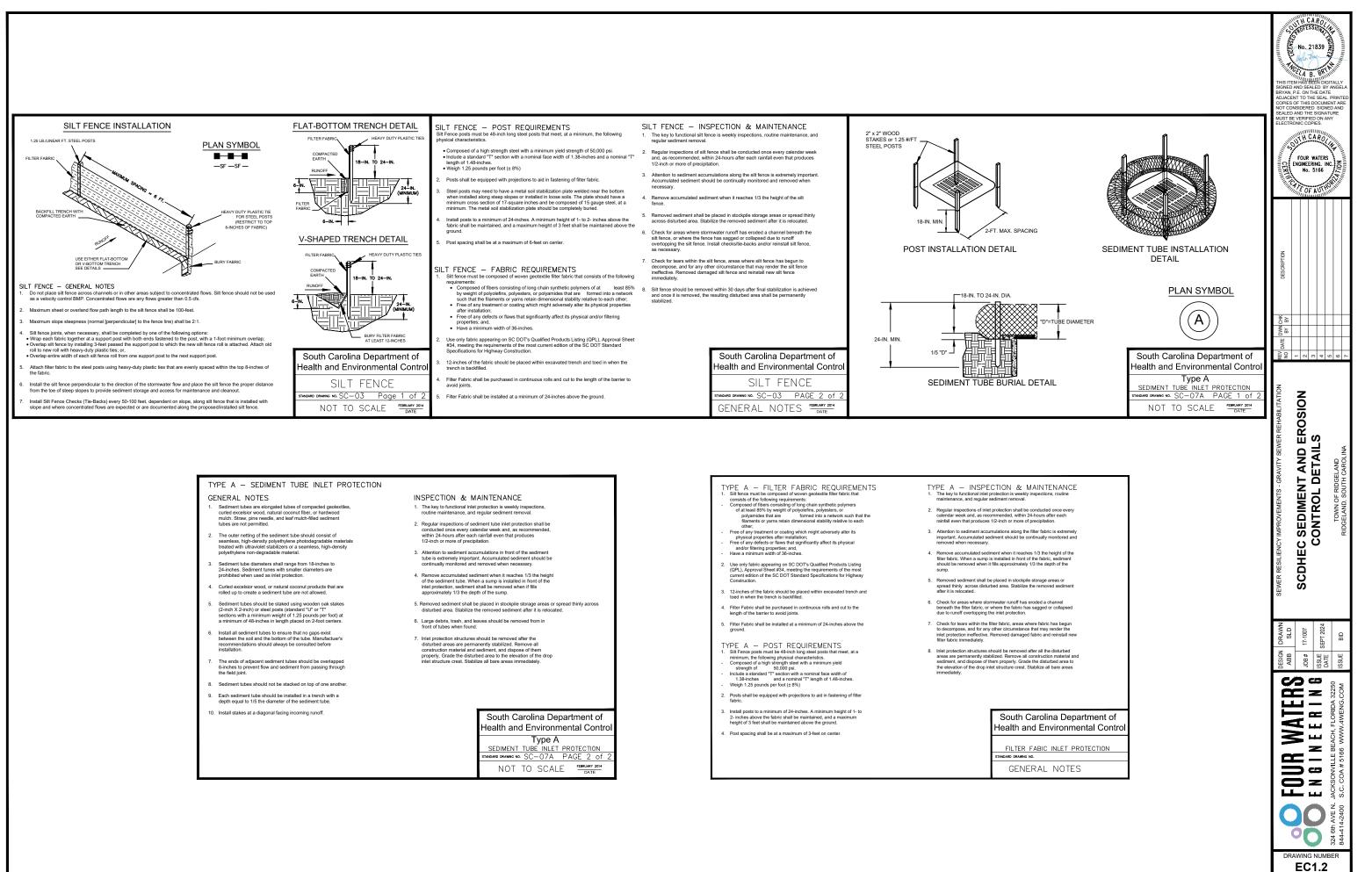
### PROJECT LIMIT AREAS APPROX 11.645 ACRES

LAND DISTURBANCE LIMITS BASED ON PROJECT IMPROVEMENTS AND CONSTRUCTION RELATED ITEMS (DOES NOT INCLUDE MAINTENANCE OF ROADWAYS).

LAND DISTURBANCE AREAS: APPROX 0.243 ACRES



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CPNERAL NOTES   1. State and a decimate base and uppeed for the state decimation and uppeed for the state and a decimation and uppeed for the state and uppeed for the state and a decimation and uppeed for the state and uppeed for the state and a decimation and uppeed for the state and uppeed	TYPE A - SEDIMENT TUBE INLET PROTECTION		TYPE A - FILTER FABRIC REQUIREMENTS	TYPE A - INSPECTION &
<ul> <li>a definition which where the source is the so</li></ul>	GENERAL NOTES	INSPECTION & MAINTENANCE	<ol> <li>Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:</li> </ol>	<ol> <li>The key to functional inlet protection is w maintenance, and regular sediment removed</li> </ol>
depth equal to 1/5 the diameter of the sediment tube.     fabric.       10. Install stakes at a diagonal facing incoming runoff.     South Carolina Department of Health and Environmental Control Type A SEDIMENT TUBE INLET PROTECTION STANDARD ROAMER NO. SC-07A PAGE 2 of 2     3. Install optical be maintained, and a maximum height of 3 feet shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.     H	<ol> <li>Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural occorul fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.</li> <li>The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultravide stabilizers or a seamless, high-density polyethylene non-degradable material.</li> <li>Sediment tube diameters shall range from 18-inches to 24-inches. Sediment tubes with smaller diameters are prohibited when used as inlet protection.</li> <li>Curled excelsior wood, or natural occonut products that are roled up to create a sediment tube and allowed.</li> <li>Sediment tubes should be staked using wooden cak stakes (2-inch X 2-inch) or steel posts (standard 'U' or 'T' sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-loot centers.</li> <li>Instal all sediment tubes the outs on the tube. Manufactuer's restraines a hord in tubes should always be consulted before installation.</li> <li>The ends of adjacent sediment from passing through the field joint.</li> <li>Sediment tubes should not be stacked on top of one another.</li> </ol>	<ol> <li>The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment renoval.</li> <li>Require inspections of sediment the inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.</li> <li>Attention to sediment accumulators in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.</li> <li>Remove accumulated sediment then is tracked sediment table is externely important. Accumulated sediment is hould be continually monitored and removed when necessary.</li> <li>Remove accumulated sediment when it reaches 1/3 the height of the sediment tube. When a sump is installed in front of the inlet protection, sediment shall be removed when if fills approximately 1/3 the depth of the sump.</li> <li>Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.</li> <li>Large debits, trash, and leaves should be removed from in front of tubes when found.</li> <li>Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed areas areas of the drop</li> </ol>	<ul> <li>Composed of fibers consisting of long chain synthetic polymers         of at least 85% by weight of polyolefins, polysers, or         polyamides that are         formed into a network such that the         filaments or yams retain dimensional stability relative to each         other:         Free of any treatment or coaling which might adversely alter its         physical properties, and         factor of filtering properties, and         Have a minimum width of 38-inches.         Use only fabric appearing on SC DOT's Qualified Products Listing         (QPL), Approval Sheet F43, meeting the requirements of the most         current edition of the SC DOT's Bandard Specifications for Highway         Construction.         Single Tabic shall be installed at a minimum of 24-inches above the         ground.         Single Approx SP Beet F43.         Single Approx SP Beet F43.         Single Approx Approx F45.         Single Approx Approx F45.         Single Approx Approx F45.         Single Approx Approx F43.         Single Approx Approx Approx F43.         Single Approx Approx Approx Approx Approx Approx Approx         Single Approx Approx Approx Approx Approx         Single Approx Approx Approx Approx         Single Approx Approx Approx         Single Approx</li></ul>	<ol> <li>Regular inspections of inlet protection sh calendar week and, as recommended, we rainfall even that produces 12-inch or m</li> <li>Attention to sediment accumulations alor important. Accumulated sediment should removed when necessary.</li> <li>Remove accumulated sediment when it n should be removed when it fills approxim sump.</li> <li>Removed sediment shall be placed in site spread thinly across disturbed area. Slat after it is relocated.</li> <li>Check for areas where stormwater rund beneat the filter fabric, on where the fab due to runoff overtopping the inlet protec.</li> <li>Check for tears within the filter fabric, are to decompose, and for any other circums inlet protection ineffective. Removed dar filter fabric on mendately.</li> <li>Inlet protection structures should be removed areas are promennetly stabulad. Remove sediment, and dispose of them property, the elevation of the drop inlet structure a</li> </ol>
South Carolina Department of Health and Environmental Control Type A SEDIMENT TUBE INLET PROTECTION STRUMED REAMED IN ACCOUNT OF A PAGE 2 of 2 NOT TO SCALE TRANSPORT				
	10. Install stakes at a diagonal facing incoming runoff.	Health and Environmental Control Type A SEDIMENT TUBE INLET PROTECTION STREAMED GRAMMER IN. SC-07A PAGE 2 of 2 NOT TO SCALE FROMWAY 2014	2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.	Sout Health <sup>FILT</sup> STANDARD OR GE