

TO TM GOODWIN WATER FOWL MANAGEMENT AREA

SUMMARY OF WORK / CONSTRUCTION SEQUENCE:

1. MOBILIZE LABOR AND EQUIPMENT TO THE SITE. ESTABLISH ON-SITE OFFICE AND STORAGE SPACES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES.
3. INSTALL COFFERDAMS UPSTREAM AND DOWNSTREAM OF STRUCTURE.
4. PUMP WATER FROM THE WORK AREA AND PROVIDE CONTINUOUS PUMPING TO KEEP THE WORK AREA DEWATERED. PUMPING SHALL BE IN A MANNER THAT WILL MINIMIZE SILTATION INTO THE WATERWAYS.
5. REMOVE SEDIMENT AND DEBRIS FROM THE STRUCTURE WORK AREA.
6. THE DISTRICT AND CONTRACTOR SHALL PERFORM A JOINT INSPECTION TO DETERMINE THE FULL EXTENT AND SCOPE OF THE REPAIR WORK. ERODED CONCRETE SURFACES SHALL BE HYDROBLASTED AND THE REMAINING SURFACES POWER WASHED.
7. INSPECT AND REPAIR CONCRETE SURFACES AS NEEDED.
8. DISCONNECT POWER, REMOVE HYDRAULIC GATE OPERATORS AND TRANSPORT TO THE DISTRICT REWORK SITE.
9. REMOVE ROLLER GATES, PERFORM JOINT INSPECTION, AND REPAIR AS NEEDED, AND PAINT.
10. PREPARE SURFACE AND PAINT ALL EXPOSED SURFACES OF EMBEDDED STEEL COMPONENTS EXCEPT FOR STAINLESS STEEL ITEMS. STAINLESS STEEL SHALL BE POWERWASHED.
11. REMOVE RAILS FROM THE SHEET PILE WINGWALLS.
12. REPAIR AND PAINT ALL EXPOSED SURFACES OF EXISTING SHEET PILING.
13. INSTALL NEW RAILS ON THE SHEET PILE WINGWALLS.
14. REPLACE UPSTREAM AND DOWNSTREAM SAFETY BARRIERS AND PILES.
15. BREAK GROUTED RIPRAP AND REGRADE.
16. STRIP AREAS WHERE NEW RIPRAP IS REQUIRED. PROVIDE ADDITIONAL RIPRAP AND BEDDING STONE TO EXISTING RIPRAP AREAS AS DIRECTED BY THE DISTRICT.
17. INSTALL NEW PILES, STAFF GAGES, AND SOLAR MARINE BEACONS. INSTALL NEW GATE POSITION GUIDES.
18. REPLACE UPSTREAM AND DOWNSTREAM WARNING SIGNS AND INSTALL SOLAR LIGHTS. INSTALL SOLAR MARINE BEACON ATOP UPSTREAM CENTER PILE GROUP.
19. INSTALL/REPLACE STILLING WELL LINES AS SHOWN OR DIRECTED BY DISTRICT.
20. INSTALL ROLLER GATES AND NEW CABLE DRUM HOISTS. RECONNECT POWER.
21. PERFORM DRY TEST OPERATION OF GATES AND OPERATORS. ADJUST AS NEEDED.
22. ALLOW WORK AREA TO FILL WITH WATER AND TEST OPERATION OF GATES AND OPERATORS UNDER NORMAL OPERATING CONDITIONS ADJUST AS NEEDED. REMOVE COFFERDAMS.
23. REMOVE FENCING AND RAILS FROM THE CONCRETE STRUCTURE AND INSTALL NEW ALUMINUM FENCING AND RAILS. REMOVE AND REPLACE GUARD RAILS.
24. DEMOBILIZE INCLUDING SITE CLEAN UP, RESTORATION OF FINAL GRADE AND GRASSING TO ORIGINAL CONDITION, AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROLS.

COFFERDAMS:

1. THE CONTRACTOR SHALL DESIGN, SUPPLY, INSTALL, AND REMOVE ALL TEMPORARY COFFERDAMS AS NECESSARY TO PERFORM THE WORK. THE DESIGN SHALL BE SIGNED AND SEALED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER.
2. COFFERDAMS SHALL BE DESIGNED FOR ADEQUATE DEPTHS AND HEIGHTS, SHALL BE SAFELY DESIGNED AND CONSTRUCTED, AND SHALL BE AS WATER TIGHT AS NECESSARY FOR THE PROPER PERFORMANCE OF THE WORK WHICH MUST BE DONE BEHIND THEM.
3. ANY FILL REQUIRED FOR CRANE ACCESS SHALL BE LIMITED TO AREAS ABOVE THE WATER LINE. OFF ROAD TRUCKS FOR HAULING FILL SHALL NOT BE PERMITTED. EXCAVATION OF THE EXISTING LEVEE SLOPES SHALL NOT BE PERMITTED AND THE SLOPES AND TOP OF ALL LEVEES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF THE WORK.
4. THE CONSTRUCTION AND MAINTENANCE OF ALL COFFERDAMS SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL PERMITS AND REGULATIONS.
5. FOLLOWING COMPLETION OF THE COFFERDAMS, THE CONTRACTOR SHALL PUMP OUT THE AREA BEHIND THE COFFERDAMS IN A MANNER THAT WILL MINIMIZE SILTATION INTO THE WATERWAYS.
6. DURING INSTALLATION AND REMOVAL OF COFFERDAMS, CARE SHALL BE TAKEN NOT TO DISTURB OR OTHERWISE INJURE ANY ADJACENT STRUCTURES.

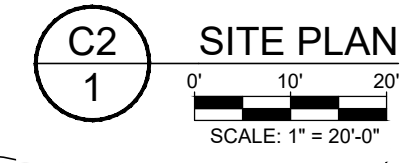
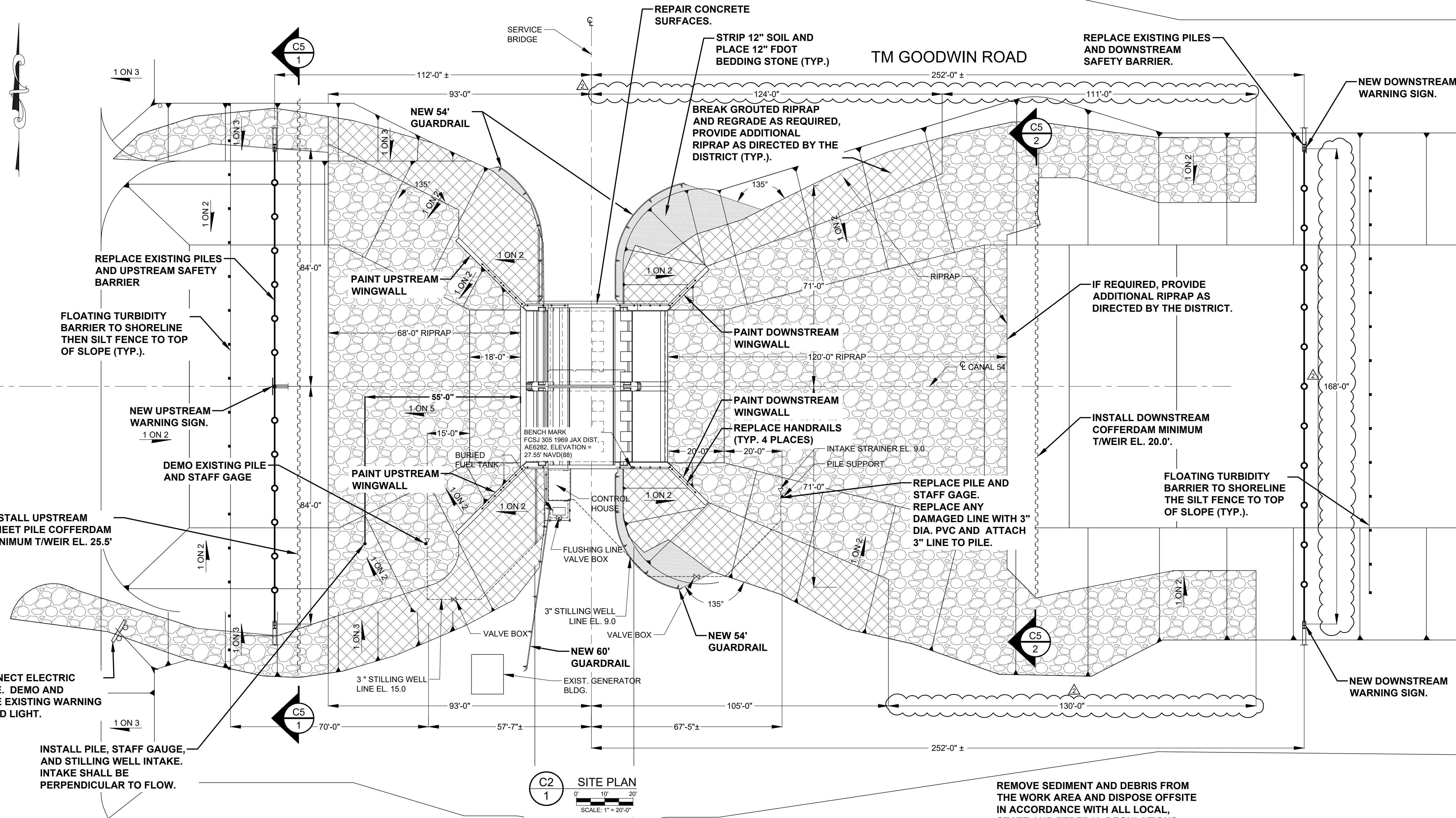
GENERAL:

1. ALL PROPOSED WORK IS SHOWN IN BOLD.
2. ALL ELEVATIONS ARE NGVD1929. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SURVEY CONTROL AS REQUIRED FOR COMPLETION OF THE WORK.
3. ACCESS TO THE PROJECT SITE SHALL BE VIA THE FELLSMERE GRADE RECREATION AREA.
4. THE CONTRACTOR SHALL PROVIDE ON SITE STORAGE AS NECESSARY TO HOUSE EQUIPMENT AND SUPPLIES. THE USE OF DISTRICT CONTROL BUILDINGS FOR STORAGE WILL NOT BE ALLOWED.
5. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES AND OTHER SITE IMPROVEMENTS FROM DAMAGE WHETHER OR NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS TO UTILITIES AND OTHER SITE IMPROVEMENTS DAMAGED DURING CONSTRUCTION.

LEGEND

- FLOATING TURBIDITY BARRIER
- SHEET PILE
- DIRECTION OF SLOPE
- EXISTING RIPRAP
- EXISTING RIPRAP WITH CONCRETE FILL
- NEW RIPRAP (12" FDOT BEDDING)
- 1 on 10 RATIO OF SLOPE
- FENCING

**FOR BID PURPOSES ONLY
NOT FOR CONSTRUCTION**



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NO.	REVISION	BY	DATE	APPROVED	DATE
1	ADDENDUM NO. 3	N.J.G.	07-19-21	W.R.C.	07-19-21
2	ISSUED FOR BID	N.J.G.	05/14/21	W.R.C.	05/14/21

UPPER ST. JOHNS RIVER BASIN
STRUCTURE 96 REHABILITATION
BREVARD COUNTY, FLORIDA

ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: MAY 14, 2021 REVIEWER: W.R.C.
SCALE: 1" = 20'-0" DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

SITE PLAN

CERTIFICATION:

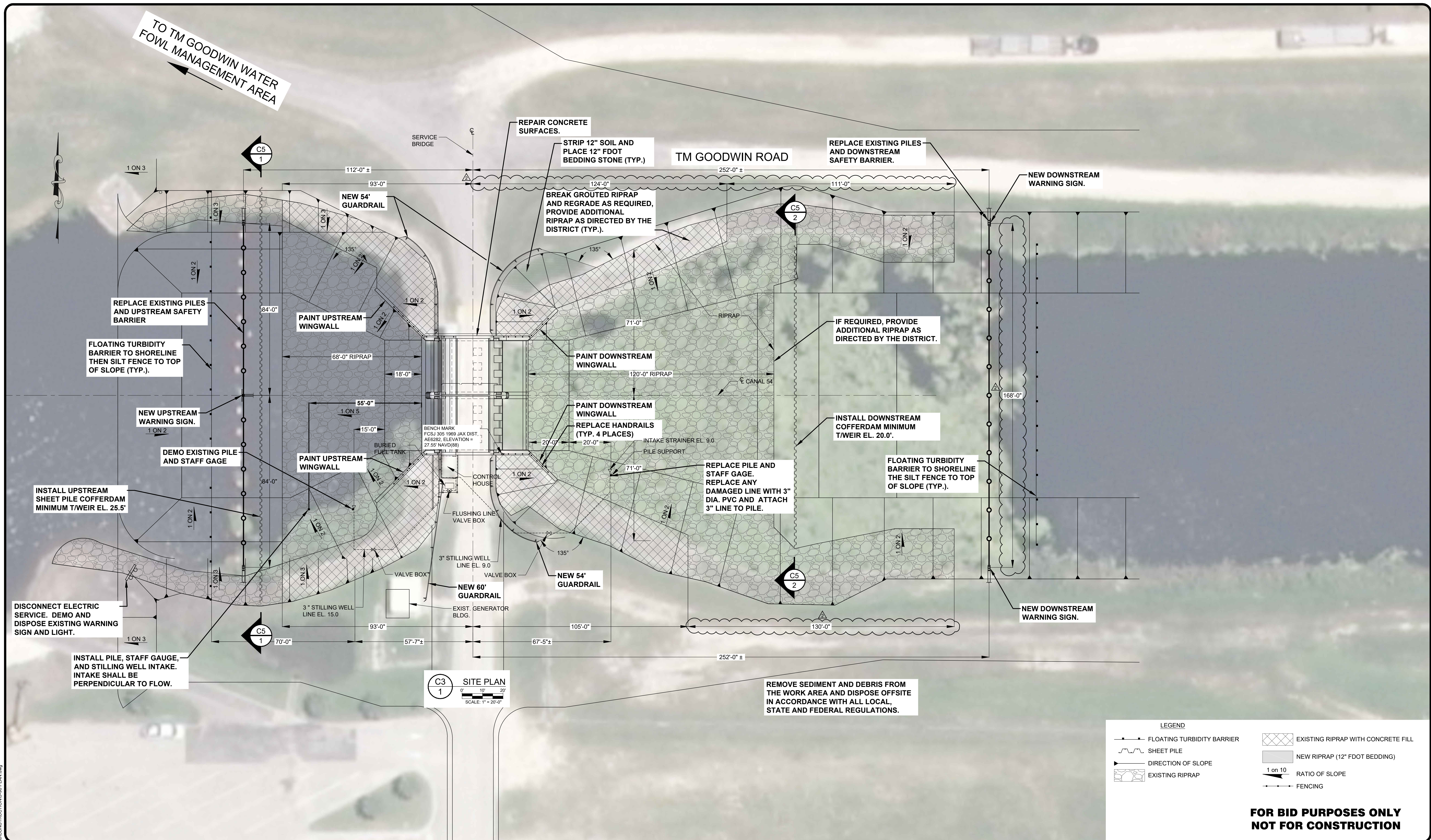
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: JULY 19, 2021

FILE NAME:
S-96 PLAN.dwg

PROJECT NO.:

SHEET:
C2

TO TM GOODWIN WATER FOWL MANAGEMENT AREA



C3 SITE PLAN
SCALE: 1" = 20'-0"

LEGEND	
	FLOATING TURBIDITY BARRIER
	SHEET PILE
	DIRECTION OF SLOPE
	EXISTING RIPRAP
	EXISTING RIPRAP WITH CONCRETE FILL
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BREVARD COUNTY, FLORIDA

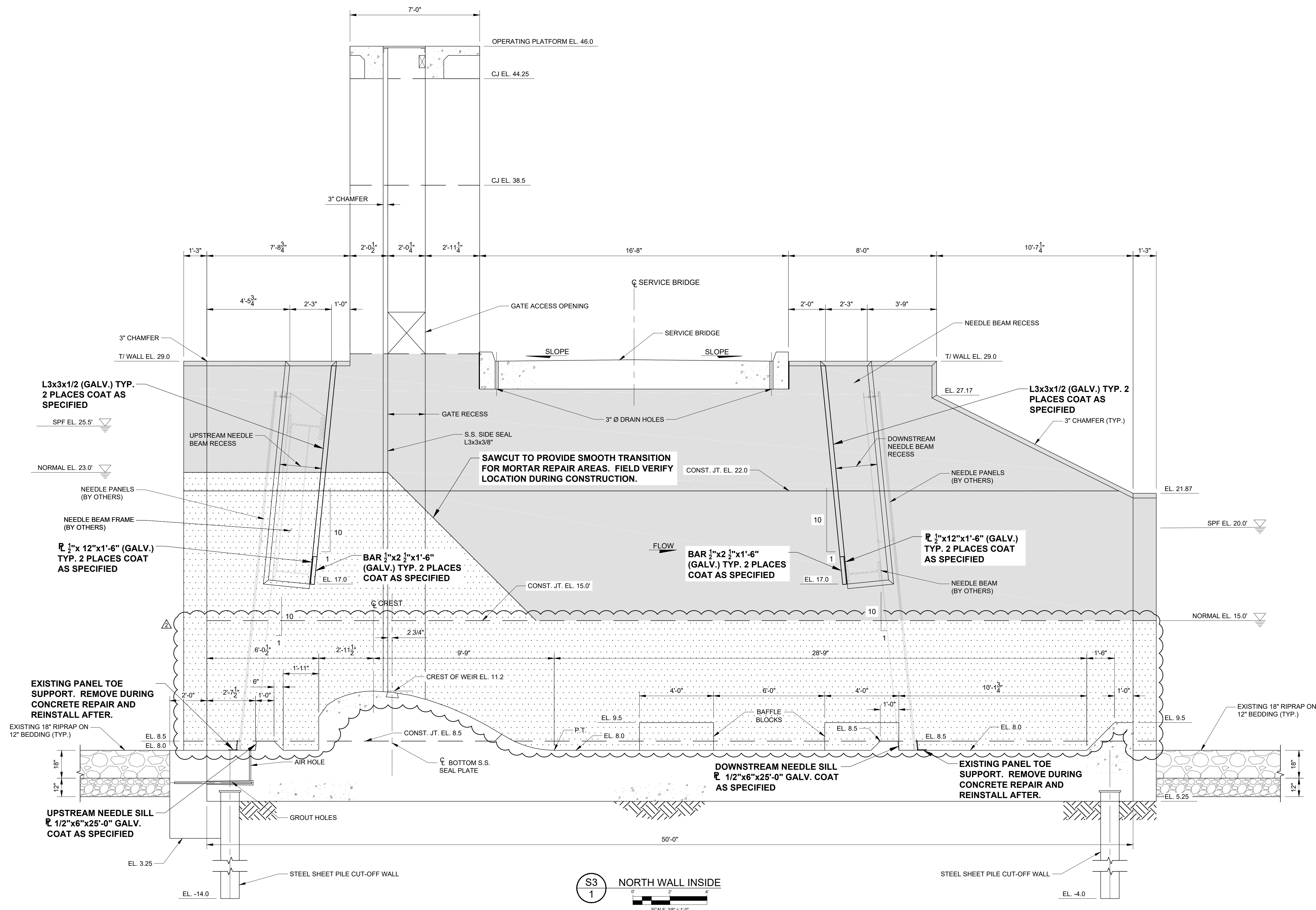
ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: MAY 14, 2021 REVIEWER: W.R.C.
SCALE: 1" = 20'-0" DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

SITE PLAN (WITH AERIAL)

CERTIFICATION:	WILLIAM R. COTE
P.E. NUMBER:	53746
DATE:	JULY 19, 2021

FILE NAME:	S-96 PLAN.dwg
PROJECT NO.:	
SHEET:	C3



LEGEND

SIKATOP 144 ONLY

TAMMS STRUCTURAL MORTAR AND SIKATOP 144

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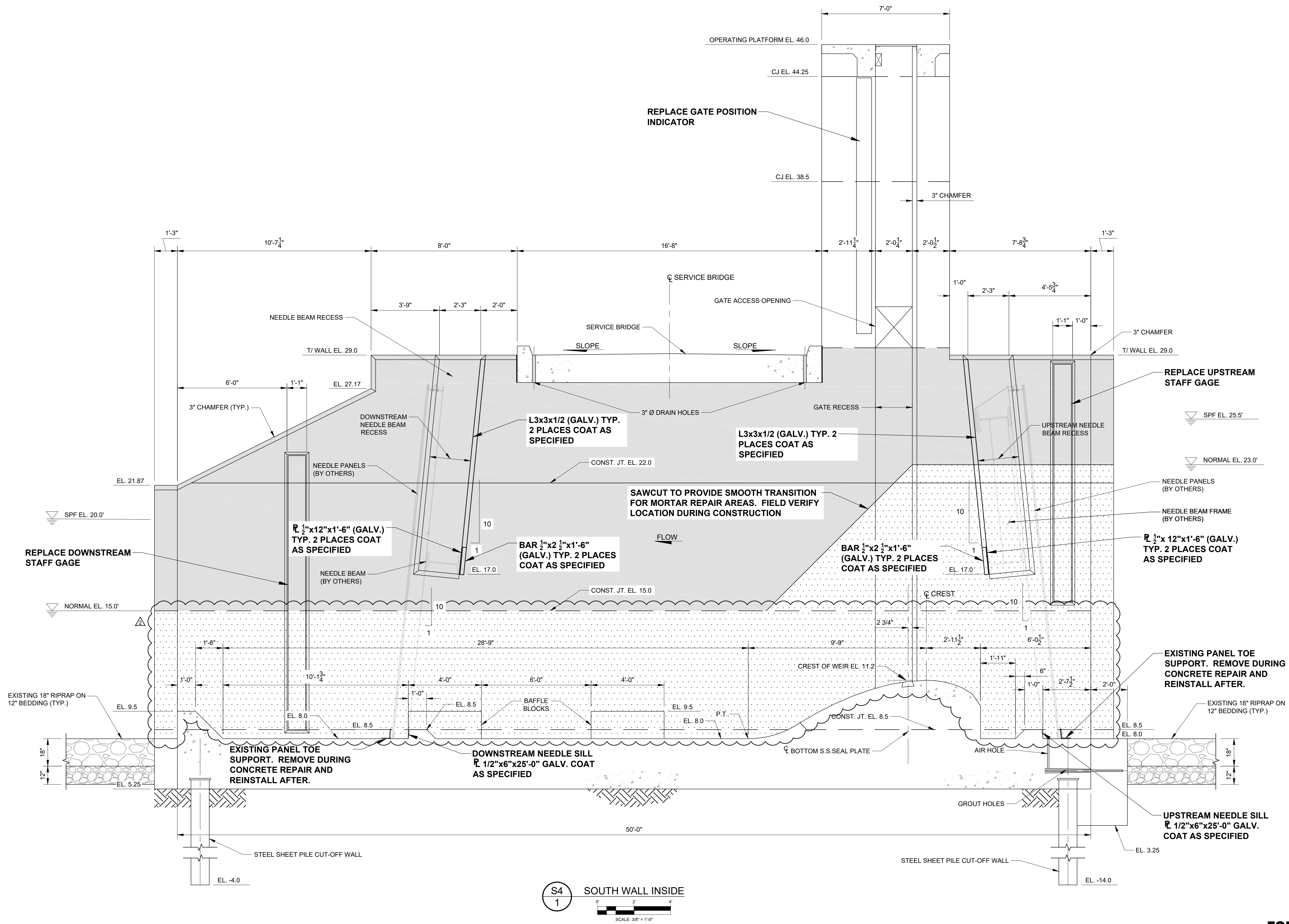
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SCALE: AS NOTED DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

CONCRETE REPAIR - NORTH WALL INSIDE

CERTIFICATION:
WILLIAM R. COTE
P.E. NUMBER: 53746
DATE: JULY 19, 2021

FILE NAME:
S-96 STRUCTURE.dwg
PROJECT NO.:
SHEET:
S3



LEGEND

SIKATOP 144 ONLY
 TAMMS STRUCTURAL MORTAR AND SIKATOP 144

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BREVARD COUNTY, FLORIDA**

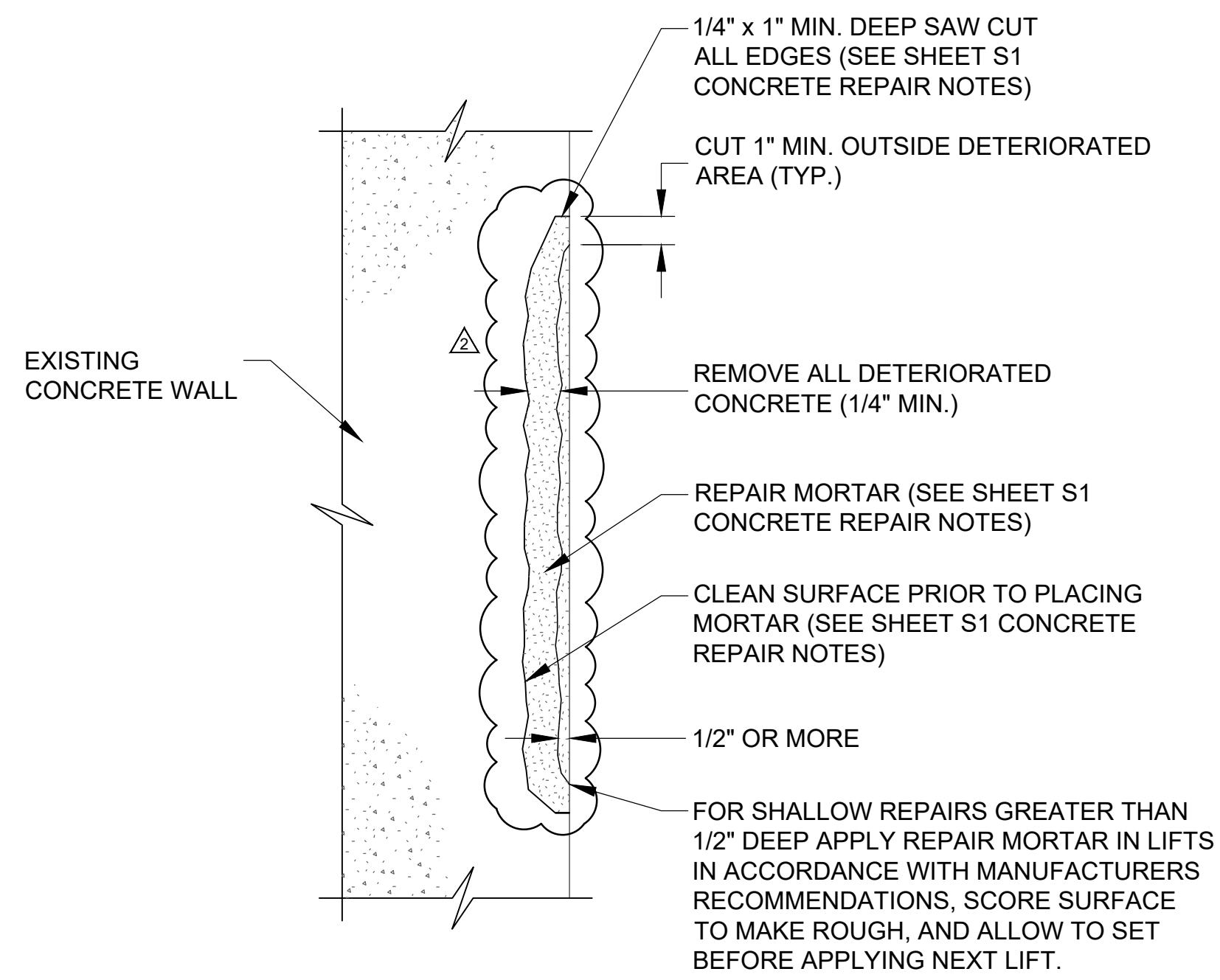
**ST. JOHNS RIVER
WATER MANAGEMENT DISTRICT**
P.O. BOX 1429 PALATKA, FLORIDA

DRAWN: N.J.G. DATE: MAY 14, 2021 REVIEWER: W.R.C.
 SCALE: 3/8" = 1'-0" DESIGNER: W.R.C. SECTION CHIEF: W.R.C.

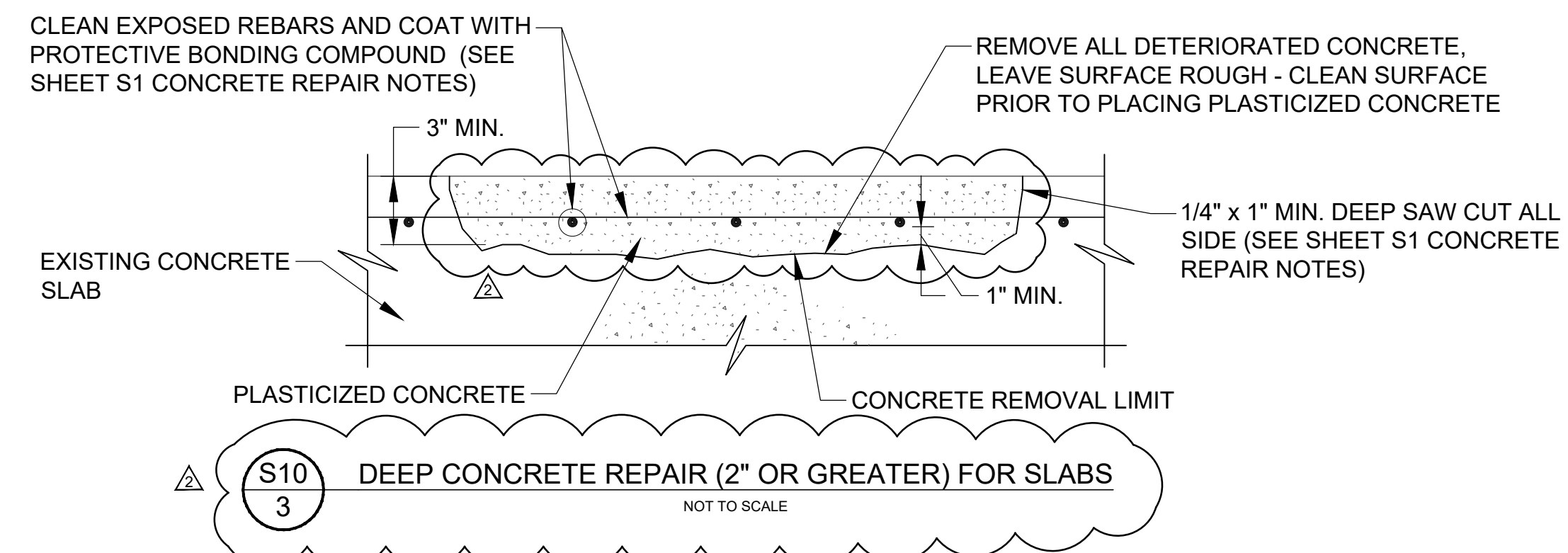
CONCRETE REPAIR - SOUTH WALL INSIDE

CERTIFICATION:
 WILLIAM R. COTE
 P.E. NUMBER: 53746
 DATE: JULY 19, 2021

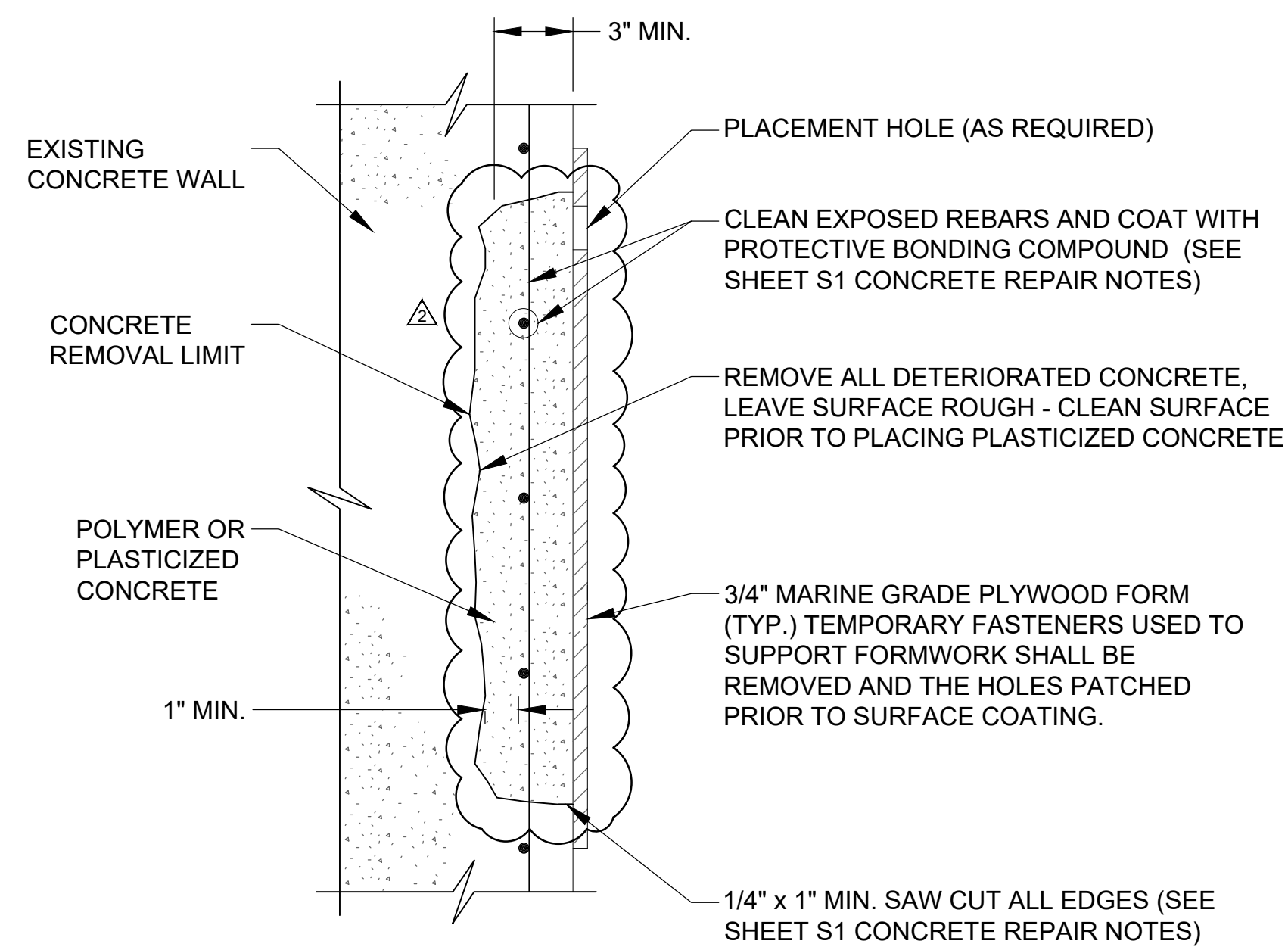
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 PROJECT NO.:
 SHEET:
S4



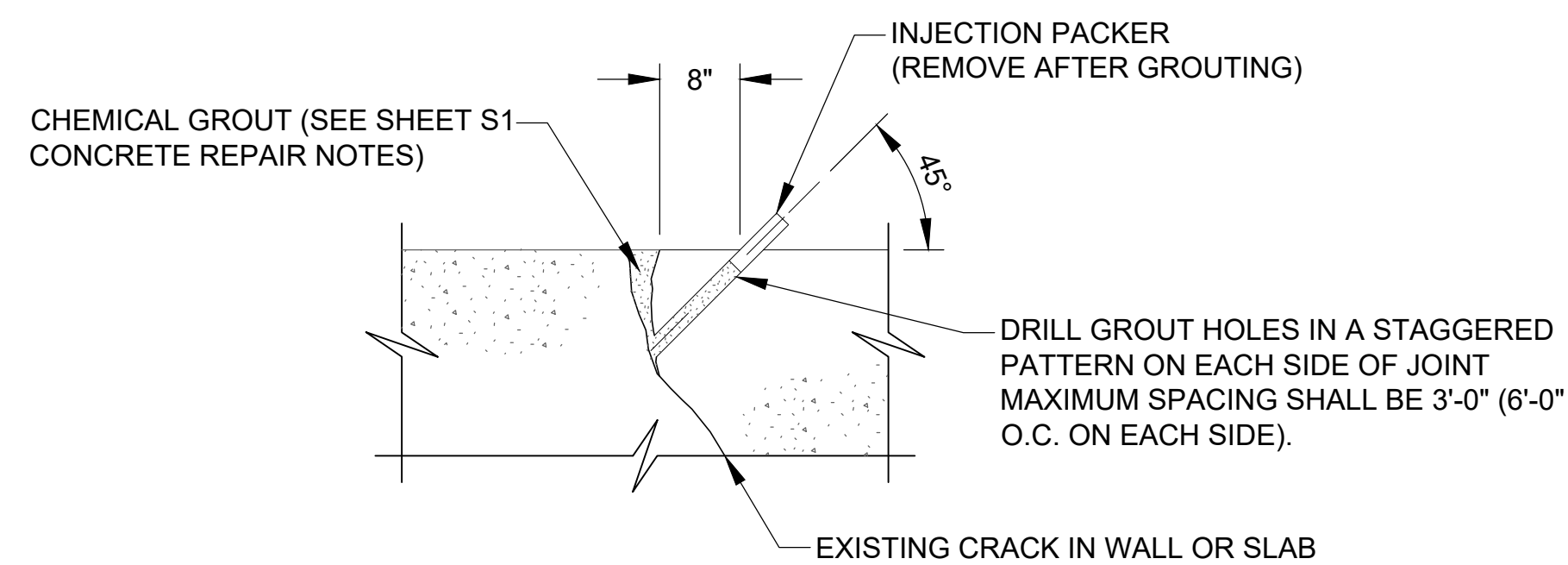
S10 1
 SHALLOW MORTAR REPAIR (2" OR LESS) FOR WALL/ SLAB CONCRETE SURFACES
 NOT TO SCALE



S10 3
 DEEP CONCRETE REPAIR (2" OR GREATER) FOR SLABS
 NOT TO SCALE



S10 2
 DEEP CONCRETE REPAIR (2" OR GREATER) FOR WALLS
 NOT TO SCALE



S10 4
 CHEMICAL GROUTING DETAIL FOR CONCRETE CRACKS WITH FLOWING WATER
 NOT TO SCALE

CONCRETE:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 400 WITH SUPPLEMENTS AND ALL PERTINENT SPECIFICATIONS CONTAINED THEREIN.
2. ALL CONCRETE SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5,500 PSI. PORTLAND CEMENT SHALL BE TYPE II IN ACCORDANCE WITH ASTM C-150. CONCRETE SHALL BE AIR ENTRAINED WITH TOTAL AIR AS PERCENT BY VOLUME OF CONCRETE EQUAL TO 4%. THE AIR ENTRAINING ADMIXTURE SHALL BE MICRO AIR, AS MANUFACTURED BY MASTER BUILDERS, OR EQUAL, CONFORMING TO ASTM C-260. THE AGGREGATES SHALL CONFORM TO ASTM C-33 AND SHALL HAVE A 3/4-INCH MAXIMUM SIZE.
3. REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A-615.
4. THE MINIMUM CLEAR CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES FOR FORMED SURFACES AND 4.5 INCHES FOR CONCRETE CAST AGAINST EARTH.
5. CRACKS WITH FLOWING WATER SHALL BE REPAIRED WITH CHEMICAL GROUT AS DETAILED PRIOR TO CONCRETE SURFACE REPAIR. CUT AND REMOVE EXCESS CHEMICAL GROUT PRIOR TO CONCRETE REPAIR. WHEN SEALING VERTICAL CRACKS, BEGIN AT THE BOTTOM AND WORK UP. WHERE WATER FLOW IS PRESENT, BEGIN INJECTING CRACK AT THE POINT OF LEAST FLOW AND WORK TOWARDS AREA OF HEAVIEST FLOW. CHEMICAL GROUT SHALL BE HYDRO ACTIVE FLEX AS MANUFACTURED BY DENEUF CONSTRUCTION CHEMICALS, INC., OR APPROVED EQUAL.

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CONCRETE REPAIR - TYPICAL DETAILS

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FILE NAME:
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S10