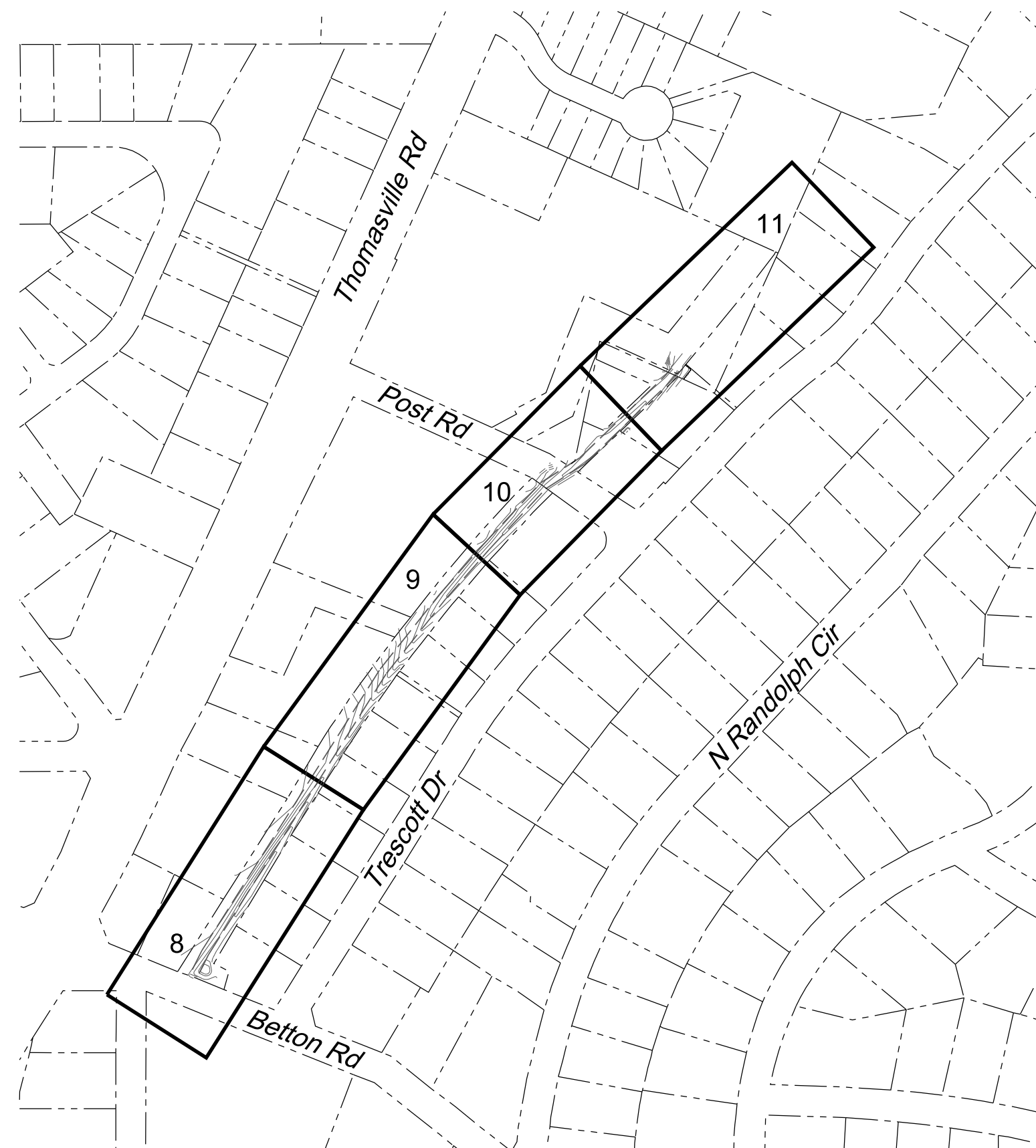


# McCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT

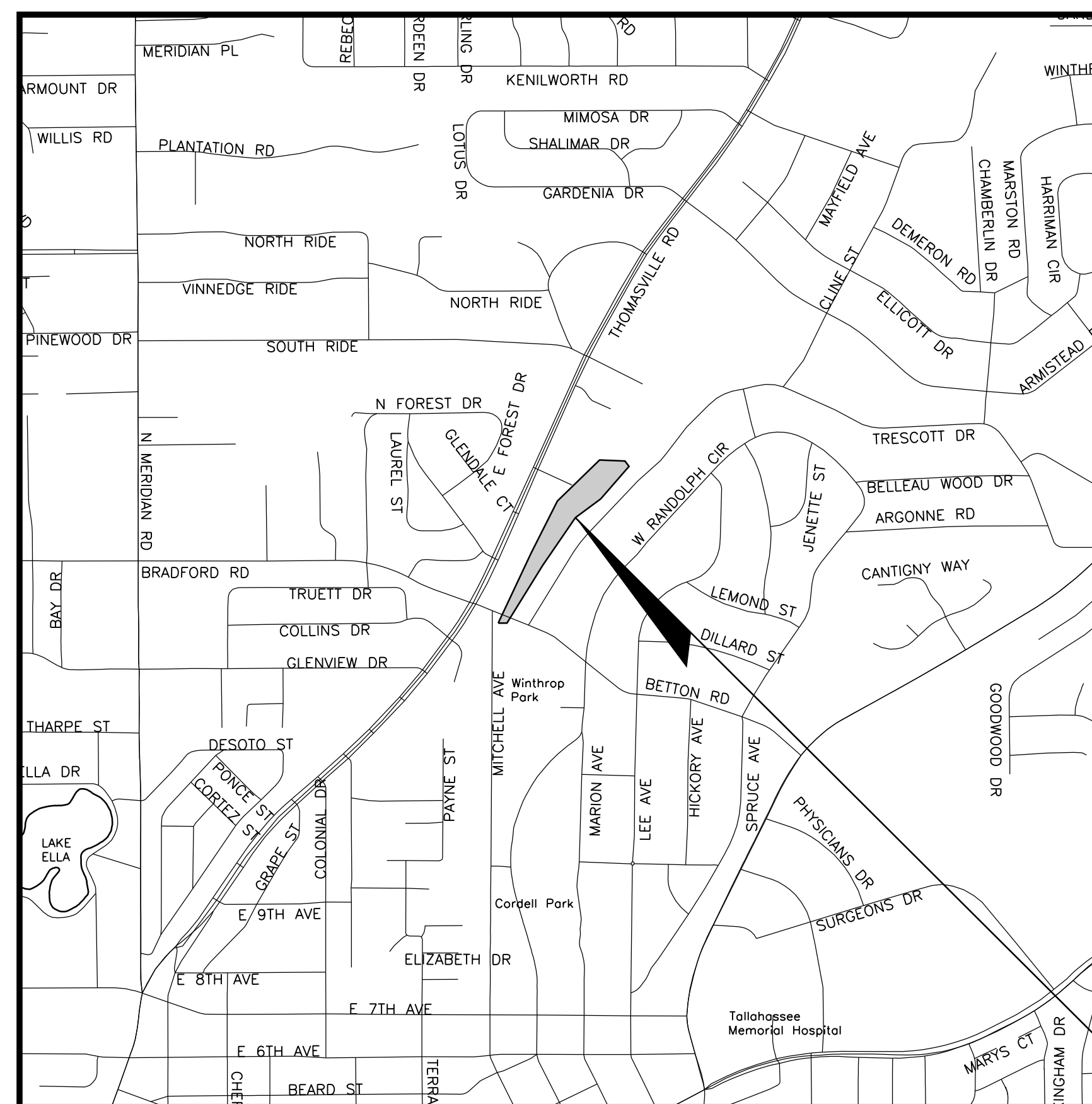
PLANS PREPARED FOR:



**CITY OF TALLAHASSEE**  
**UNDERGROUND UTILITIES AND PUBLIC INFRASTRUCTURE DEPARTMENT**  
**STORMWATER MANAGEMENT**  
**C.O.T. WORK ORDER NO. 17129**



PLAN AND PROFILE KEY MAP



LOCATION MAP  
1" = 1000'

NORTH AMERICAN VERTICAL DATUM OF 1988

PLANS PREPARED BY:



**SINGHOFEN & ASSOCIATES, INC.**  
**Stormwater Management and Civil Engineering**  
 11723 Orpington Street, Suite 100  
 Orlando, Florida 32817  
 Phone (407) 679-3001 Fax (407) 679-2691  
 DBPR No. 5112

**INDEX OF SHEETS**

SHEET NO.	SHEET DESCRIPTION
1	Cover
2	Drainage Map
3	General Notes
4	Quantities & Pay Item Notes
5	Typical Sections & Details
6	Typical Sections & Details
7	Project Layout Plan
8	Plan & Profile
9	Plan & Profile
10	Plan & Profile
11	Plan & Profile
12	Cross Sections
13	Cross Sections
14	Cross Sections
15	Cross Sections
16	Cross Sections
17	Cross Sections
18	Special Details - Betton Road
19	Special Details - Outfall
20	Special Details - Structure S-8
21	Soil Survey
22	Stormwater Pollution Prevention & Tree Protection Notes & Details
23	Stormwater Pollution Prevention Plan Layout & Tree Protection/Removal Plan
24	Pavement Restoration Plan
25	Fence Plan
26	Traffic Control Plan
SW0.1	Structural General Notes
SW0.2	Overall Structure Location Plan
SW1.1	Box Culvert Connection Plan, Elevation, & Section
SW1.2	Endwall Plan & Profile
SW1.3	Endwall Sections & Details
SW2.1	Temporary Soldier Pile Wall & Details
V-1	Survey
V-2	Survey
V-3	Survey

PROJECT LOCATION

ENGINEER OF RECORD:  
 ROBERT B. GAYLORD  
 P.E. NO.: 51373

APPROVED FOR CONSTRUCTION

STORMWATER MANAGEMENT DIVISION

DATE: \_\_\_\_\_

SET NO.: \_\_\_\_\_

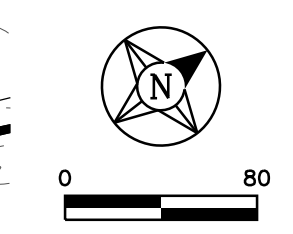
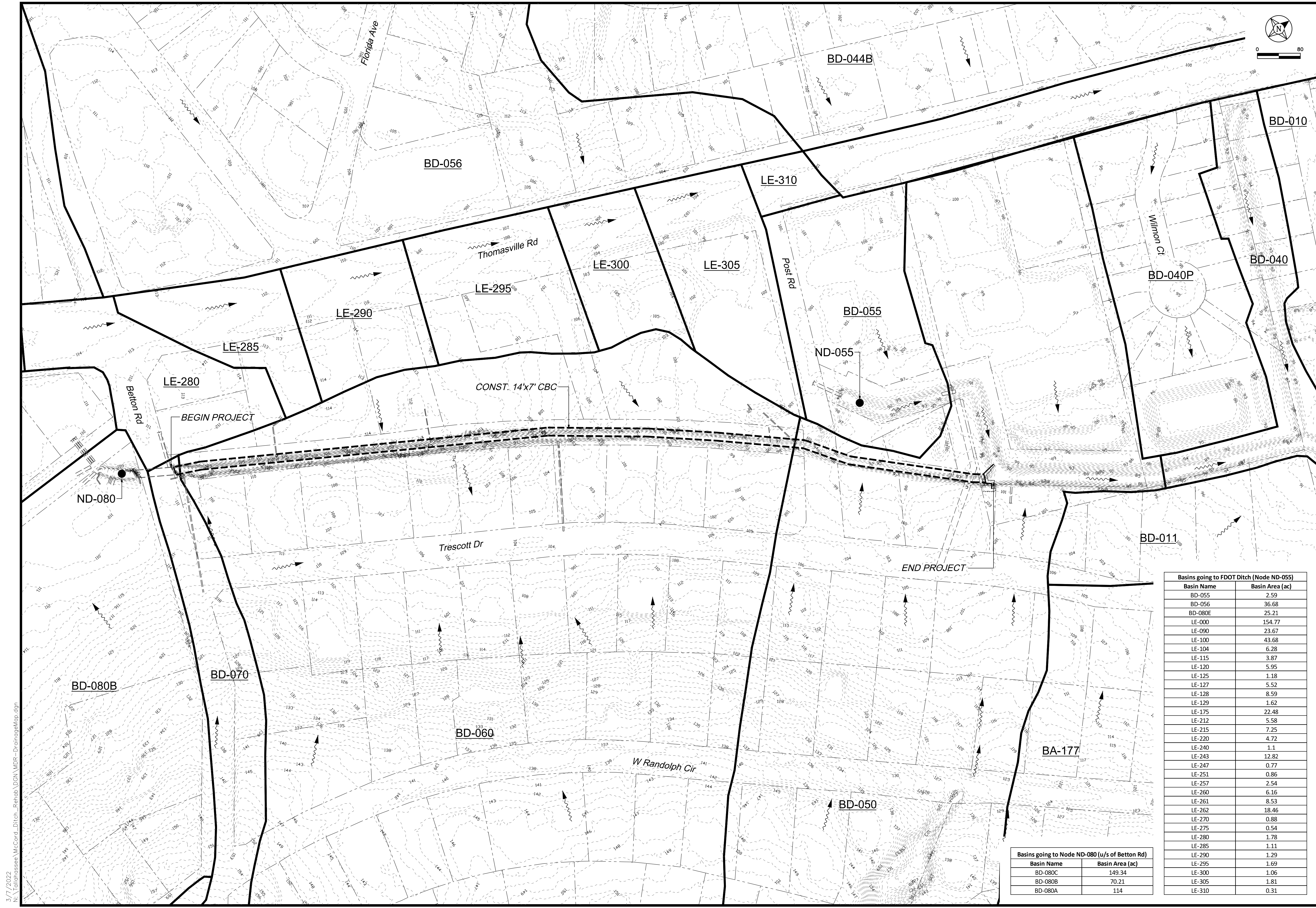
GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FY 2020-2021 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION JANUARY 2020 EDITION, AS AMENDED BY CONTRACT DOCUMENTS.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

REVISIONS			
NO.	DESCRIPTION	BY	DATE
1			

McCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT



DATE  
SIGNATURE

ORIGINAL MAY 2019

REVISIONS:	DATE	DESCRIPTION
1		
2		
3		
4		
5		

**DRAINAGE MAP**

**MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT**

**SINGHOFEN & ASSOCIATES, INC.**  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Orionington Street, Suite 100  
Orion, Michigan 48350  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112

JOB NO. 2014-039.10  
DRAWN AFD/BJG  
DESIGNED RBG  
CHECKED RBG  
OC RBG

Basins going to FDOT Ditch (Node ND-055)	
Basin Name	Basin Area (ac)
BD-055	2.59
BD-056	36.68
BD-080E	25.21
LE-000	154.77
LE-090	23.67
LE-100	43.68
LE-104	6.28
LE-115	3.87
LE-120	5.95
LE-125	1.18
LE-127	5.52
LE-128	8.59
LE-129	1.62
LE-175	22.48
LE-212	5.58
LE-215	7.25
LE-220	4.72
LE-240	1.1
LE-243	12.82
LE-247	0.77
LE-251	0.86
LE-257	2.54
LE-260	6.16
LE-261	8.53
LE-262	18.46
LE-270	0.88
LE-275	0.54
LE-280	1.78
LE-285	1.11
LE-290	1.29
LE-295	1.69
LE-300	1.06
LE-305	1.81
LE-310	0.31

Basins going to Node ND-080 (u/s of Betton Rd)	
Basin Name	Basin Area (ac)
BD-080C	149.34
BD-080B	70.21
BD-080A	114

3/7/2022  
N:\atlantasea\McCord\_Ditch\_Rehab\DCN\MDR-DrainageMap.dgn

3/7/2022  
N:\tallahassee\McCord\_Ditch\_Rehab\_DGN\MDB-General.dgn

GENERAL NOTES:

- THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE CITY AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
- AT LEAST THREE CALENDAR DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A TENTATIVE BASE CONSTRUCTION SCHEDULE, A PRECONSTRUCTION SURVEY, A TRAFFIC CONTROL PLAN, AND A SEDIMENT AND EROSION CONTROL PLAN. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE CONSTRUCTION SCHEDULE, PRECONSTRUCTION SURVEY, TRAFFIC CONTROL PLAN, AND SEDIMENT AND EROSION CONTROL PLAN.
- THE CONSTRUCTION SCHEDULE SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE ENGINEER, AND SHALL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. THE UPDATED SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER NO LATER THAN THREE DAYS PRIOR TO EACH SCHEDULED MONTHLY PROGRESS MEETING. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- THE PRECONSTRUCTION SURVEY SHALL VERIFY THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER AND SHALL ALSO ESTABLISH THE LOCATION AND DESCRIPTION OF ALL ADDITIONAL REFERENCE POINTS AND THE LOCATIONS, DESCRIPTIONS, AND ELEVATIONS OF ALL ADDITIONAL BENCHMARKS TO BE USED IN CONSTRUCTING THE PROJECT. THE SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. SIGNIFICANT INCONSISTENCIES BETWEEN THE FIELD NOTES AND THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO ISSUANCE OF THE NOTICE TO PROCEED. PAYMENT SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- THE GEOTECHNICAL INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THIS INFORMATION MAY NOT ACCURATELY REFLECT ACTUAL SOIL CONDITIONS AS TO THE DEPTH, EXTENT OR CHARACTER OF THE MATERIAL TO BE ENCOUNTERED IN CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE OF THE WORK AS MAY BE NECESSARY TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING ALL PROPERTY CORNERS AND MONUMENTS SHOWN ON THE DRAWINGS OR FOUND DURING CONSTRUCTION. IF A PROPERTY CORNER OR MONUMENT IS DESTROYED OR DISTURBED, THE CONTRACTOR WILL HAVE IT REPLACED AND CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. ALL COSTS FOR PRESERVING, REPLACING AND CERTIFYING PROPERTY CORNERS AND MONUMENTS WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND:  
  
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF SURVEY AND MAPPING  
3900 COMMONWEALTH BLVD.  
TALLAHASSEE, FLORIDA 32399-3000  
(850) 245-2118  
public.services@dep.state.fl.us
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS, INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE. THE FOLLOWING UTILITIES SHOULD BE CONTACTED FOR INFORMATION CONCERNING TYPE AND LOCATION OF THEIR FACILITIES. THE LIST MAY NOT INCLUDE ALL UTILITIES IN THE AREA.  
  
SUNSHINE STATE ONE-CALL OF FLORIDA 811 OR 800-432-4770 (5 DAYS NOTIFICATION PRIOR TO CONSTRUCTION)  
CITY OF TALLAHASSEE/ELECTRICAL UTILITY 850-891-5105  
CITY OF TALLAHASSEE/GAS UTILITY 850-891-5689  
CITY OF TALLAHASSEE/WATER UTILITY 850-891-6144  
CITY OF TALLAHASSEE/SEWER UTILITY 850-891-6144  
COMCAST (CABLE TELEVISION) 850-815-7831  
CENTURYLINK (TELEPHONE) 850-599-1479  
AT&T (COMMUNICATIONS) 813-342-0512  
SOUTHERN LIGHT (COMMUNICATIONS) 850-544-1400
- PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR SHALL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND SHALL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. IN THE CASE OF A WATER MAIN SHUT DOWN, A MINIMUM 24-HOUR NOTICE ALSO SHALL BE PROVIDED TO THE TALLAHASSEE FIRE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY (850-891-5100) A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION IN THE VICINITY OF GAS MAINS, AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES. A GAS DEPARTMENT INSPECTOR WILL BE ON SITE WHEN WORK ACTIVITIES TAKE PLACE NEAR GAS MAINS. A MINIMUM OF 72 HOURS NOTICE SHALL BE PROVIDED FOR ANY REQUEST FOR GAS MAIN EXPOSURE OR ADJUSTMENT.
- ALL UTILITIES IN CONFLICT WITH CONSTRUCTION ARE TO BE ADJUSTED OR RELOCATED BY OTHERS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- WHERE THE REQUIRED MINIMUM SEPARATION BETWEEN UTILITIES IS SPECIFIED, THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- LIMITS OF CONSTRUCTION ARE DEFINED IN THE PLANS AND CONSIST OF ROADWAY RIGHTS-OF-WAY, CITY OF TALLAHASSEE PROPERTIES, DRAINAGE RIGHTS-OF-WAY, PERMANENT DRAINAGE AND/OR UTILITY EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS.
- NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
- ALL EXISTING DRAINAGE STRUCTURES AND PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER. ALL DRAINAGE STRUCTURES, PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., THAT ARE TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITH THE SAME TYPE AND MATERIAL AT NO COST TO THE CITY.
- ALL STORM MANHOLES OR STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE REMOVED TO A MINIMUM OF THREE FEET BELOW GRADE AND FILLED WITH COMPACTED SAND.
- EXISTING CONCRETE AND ASPHALTIC CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE SAW-CUT AS REQUIRED FOR CONSTRUCTION.
- ALL SIDEWALKS AND CURB RAMPS REMOVED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO MEET CURRENT ADA STANDARDS.
- THE CONTRACTOR SHALL PUT FORTH EVERY REASONABLE EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE OF ADJACENT PROPERTIES. ACCESS BY PROPERTY OWNERS AND RESIDENTS TO THEIR PROPERTY SHALL BE MAINTAINED AT ALL TIMES. ANY BARRICADING OF ACCESS MUST BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS AND RESIDENTS.
- ALL FENCES IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED IN THEIR ORIGINAL LOCATIONS OR IN OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY, AT HIS OPTION, USE NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED OR REUSE THE FENCING MATERIAL THAT WAS REMOVED IF IT IS UNDAMAGED BY CONSTRUCTION ACTIVITIES. ALL FENCES DAMAGED BY CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED.
- THE CONTRACTOR SHALL EXERCISE DUE CARE IN THE REMOVAL OF EXISTING FENCES TO MAINTAIN SECURITY AT THE AFFECTED PROPERTIES AND TO ENSURE THE SAFETY OF PETS, ANIMALS AND CHILDREN. IF IN THE OPINION OF THE ENGINEER, REMOVAL OF A FENCE WILL RESULT IN AN UNACCEPTABLE REDUCTION IN SECURITY OR SAFETY, THE CONTRACTOR SHALL INSTALL A TEMPORARY FENCE AS DIRECTED BY THE ENGINEER PRIOR TO REMOVAL OF THE EXISTING FENCE. THE TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL THE PERMANENT FENCE IS INSTALLED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES AND LANDSCAPING ON ADJACENT PROPERTIES, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION THAT ARE NOT IDENTIFIED ON THE PLANS TO BE REMOVED SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE PROTECTION BARRICADES SHALL BE INSTALLED AND MAINTAINED AROUND ALL TREES THAT ARE TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

- THE CONTRACTOR SHALL NOT DISTURB GRASSING OR LANDSCAPING OUTSIDE CONSTRUCTION WORK ZONES. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION OUTSIDE CONSTRUCTION WORK ZONES AND SHALL RESTORE AT NO COST TO THE CITY ANY AREAS THAT ARE DAMAGED INCLUDING AREAS WITHIN THE LIMITS OF CONSTRUCTION OR ON ADJACENT PROPERTIES USING, TO THE EXTENT PRACTICABLE, THE SAME TYPES AND SIZES OF PLANT MATERIAL THAT EXISTED PRIOR TO CONSTRUCTION.
- THE LOCATION AND CONSTRUCTION OF MAILBOXES SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE. WHEN A MAILBOX IN CONFLICT WITH CONSTRUCTION IS REMOVED, THE CONTRACTOR SHALL FURNISH AND INSTALL A TEMPORARY MAILBOX AND SHALL MAINTAIN THE TEMPORARY MAILBOX UNTIL A NEW MAILBOX IS INSTALLED. THE CONTRACTOR SHALL CONSTRUCT A NEW MAILBOX TO MATCH, AS CLOSE AS PRACTICABLE, THE LOCATION, TYPE, SIZE, MATERIAL, AND COLOR OF THE ORIGINAL MAILBOX. IN LIEU OF CONSTRUCTING A NEW MAILBOX, THE EXISTING MAILBOX MAY BE REUSED IF IT MEETS THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE AND IS FUNCTIONALLY SOUND.
  - DISTURBED AREAS SHALL BE COMPACTED (AT A MINIMUM) EQUAL TO ADJACENT UNDISTURBED GROUND EXCEPT WHEN OTHERWISE SPECIFIED.
  - PROPERTIES ADJACENT TO WORK ZONES SHALL BE GRADED TO DRAIN WITHIN THE LIMITS OF CONSTRUCTION.
  - ALL DISTURBED AREAS WITHIN CONSTRUCTION WORK ZONES ARE TO BE GRASSED EXCEPT FOR AREAS THAT ARE LANDSCAPED, PAVED, OR BELOW NORMAL WATER LEVEL. EXISTING GRASSED AREAS SHALL BE REPLANTED WITH SOD OF THE SAME GRASS TYPE AS EXISTING, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. CENTIPEDE SOD WILL BE USED FOR DISTURBED AREAS NOT CURRENTLY GRASSED. REINFORCEMENT MAT SHALL BE INSTALLED BENEATH SOD PLACED ON SLOPES OF 1V:2H OR STEEPER, AND THE SOD SHALL BE STAPLED. COSTS FOR REINFORCEMENT MAT, STAPLING, FERTILIZING, AND WATERING SHALL BE INCLUDED IN THE UNIT PRICE OF THE PAY ITEM FOR PERFORMANCE TURF.
  - PRIOR TO REQUESTING A FINAL INSPECTION, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOUR COMPLETE SETS OF CERTIFIED AS-BUILT RECORD DRAWINGS AND TWO COPIES OF THE DIGITAL FILES ON CD-ROM DISKS.
- SUPPLEMENTAL GENERAL NOTES:
- POOLE ENGINEERING & SURVEYING, INC. (850-386-5117), PROVIDED THE TOPOGRAPHY, BENCHMARKS, RIGHTS-OF-WAY AND UTILITY LOCATION INFORMATION SHOWN ON THE CONSTRUCTION DRAWINGS. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL VALVE BOXES ON GAS AND WATER MAINS WITHIN THE LIMITS OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE. PRIOR TO COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES WITHIN CONSTRUCTION AREAS SO THE TOPS ARE FLUSH WITH FINISHED PAVEMENT OR WITH FINISHED GRADE IN UNPAVED AREAS.
- SUPPLEMENTAL GENERAL NOTES - STORMWATER CONSTRUCTION:
- IF THE PLANS DO NOT DESIGNATE A TYPE OF PIPE, EITHER STEEL REINFORCED CONCRETE PIPE (MINIMUM CLASS III) IN ACCORDANCE WITH STANDARD SPECIFICATION 449-4 OR FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED POLYPROPYLENE PIPE MAY BE USED. NON-REINFORCED CONCRETE PIPE MAY NOT BE USED. WHEN THE PLANS DESIGNATE A TYPE OF PIPE, THE CONTRACTOR MAY USE ONLY THE TYPE DESIGNATED. THE CONTRACTOR SHALL NOT USE A TYPE OF PIPE NOT DESIGNATED ON THE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER. POLYPROPYLENE PIPE MAY NOT BE USED FOR OPEN-ENDED PIPE RUNS, SUCH AS PIPES CONNECTING TO DITCHES OR PONDS. ON OPEN-ENDED PIPE RUNS, STEEL REINFORCED CONCRETE PIPE SHALL BE USED FOR THE ENTIRE RUN OF PIPE FROM THE OPEN END TO THE NEAREST DRAINAGE STRUCTURE. ALL PIPES SHALL BE CUT FLUSH WITH THE INSIDE OF DRAINAGE STRUCTURES.
  - ALL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING SELECT MATERIAL FOR THE SOIL ENVELOPE AS SHOWN ON THE STORM DRAIN PIPE INSTALLATION DETAIL. BACKFILL AROUND POLYPROPYLENE PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
  - ALL JOINTS OF CONCRETE PIPES, CULVERTS, AND STORM DRAINS SHALL HAVE A FILTER FABRIC JACKET AS DETAILED ON STANDARD PLANS INDEX 430-001, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
  - ALL PIPE CULVERTS AND STORM DRAINS 48-INCHES OR LESS IN DIAMETER SHALL BE VIDEO TAPED IN ACCORDANCE WITH SECTION 430-4.8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  - UNLESS NOTED OTHERWISE IN THE PLANS, THE CONTRACTOR SHALL TAKE OWNERSHIP OF ALL EXCAVATED MATERIALS NOT SUITABLE FOR BACKFILLING AND OF ALL EXCAVATED SUITABLE MATERIALS THAT ARE NOT REQUIRED FOR BACKFILLING OR FOR OTHER USE ON SITE AND SHALL DISPOSE OF THE MATERIALS OUTSIDE THE PROJECT LIMITS AT NO ADDITIONAL COST TO THE CITY.
  - ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS UNLESS OTHERWISE SHOWN ON THE PLANS.
  - ALL STORM DRAIN COVERS SHALL BE TYPE USF T1 (U.S. FOUNDRY NO. 8017195), NPR15-728 (EJ GROUP COVER NO. 3062A2), OR APPROVED EQUAL.
  - ALL TYPE J STRUCTURE BOTTOMS SHALL HAVE A MINIMUM 6'-0" WALL HEIGHT WHEN POSSIBLE.
  - ALL GRATES SHALL BE CHAINED AND LOCKED IN ACCORDANCE WITH STANDARD PLANS INDEX 425-001. COST OF EYEBOLTS AND CHAIN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURES.
  - UTILITIES IN CONFLICT WITH THE INSTALLATION OF A NEW STORM DRAIN ARE TO BE ADJUSTED OR RELOCATED TO ELIMINATE THE CONFLICT. IF THE CONFLICT CANNOT BE REASONABLY AVOIDED, A CONFLICT STRUCTURE WITH ACCESS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD PLANS INDEX 425-080 WITH THE EXCEPTION THAT FOR UTILITY CONFLICT CONDITION II (PRESSURE OR FLUID CARRIER INSTALLATIONS), A CARRIER PIPE IS NOT REQUIRED IF DUCTILE IRON PIPE IS USED FOR THE UTILITY AND NO PIPE JOINTS ARE LOCATED WITHIN THE CONFLICT STRUCTURE. "NOTCHING" OF A STORM DRAIN PIPE OR STRUCTURE TO ACCOMMODATE A UTILITY SHALL NOT BE ALLOWED. NO UTILITY SHALL BE INSTALLED THROUGH ANY PORTION OF A STORM DRAIN PIPE WITHOUT A CONFLICT STRUCTURE.
- SUPPLEMENTAL GENERAL NOTES - TRAFFIC CONTROL:
- THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT DESCRIBES THE MEASURES TO BE EMPLOYED DURING CONSTRUCTION TO WARN MOTORISTS AND PEDESTRIANS OF HAZARDS, TO ADVISE MOTORISTS OF THE PROPER TRAVEL PATH THROUGH OR AROUND THE WORK AREA, TO DELINEATE AREAS WHERE TRAFFIC SHOULD NOT OPERATE, AND TO SEPARATE AND PROTECT MOTORISTS, PEDESTRIANS, AND THE WORK FORCE DURING ALL PHASES OF THE WORK. THE PLAN SHALL ALSO CONSIDER ACCESS TO BUSINESSES WITHIN THE CONSTRUCTION AREA AND PROVIDE BUSINESS ENTRANCE SIGNS TO ROUTE MOTORISTS TO DESIGNATED PARKING AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM THE CITY OF TALLAHASSEE TRAFFIC ENGINEERING PRIOR TO BEGINNING CONSTRUCTION. PAYMENT FOR PREPARING AND SUBMITTING THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
  - ACCESS TO BUSINESS AND RESIDENTIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
  - NO ROADWAYS (INCLUDING COUNTY ROADS) SHALL BE CLOSED WITHOUT PRIOR APPROVAL OF CITY OF TALLAHASSEE TRAFFIC ENGINEERING.
  - ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.
  - ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE THE START OF CONSTRUCTION ON AFFECTED ROADWAYS.
  - WARNING LIGHTS SHALL BE USED ON BARRICADES DURING HOURS OF DARKNESS IN ACCORDANCE WITH STANDARD PLANS INDEX 102-600.
- SUPPLEMENTAL GENERAL NOTES - SEDIMENT AND EROSION CONTROL:
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION, WATER POLLUTION, AND THE TRANSPORTATION OF ERODED MATERIALS OFF SITE.
  - THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SEDIMENT AND EROSION CONTROL PLAN TO ACCOMPANY THE STORMWATER POLLUTION PREVENTION PLAN AND THE SEDIMENT AND EROSION CONTROL PLAN INCLUDED IN THESE PLANS. THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" AND SHALL BE SPECIFIC TO THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION TO BE EMPLOYED BY THE CONTRACTOR AND SHALL IDENTIFY THE TYPES AND LOCATIONS OF CONTROLS THAT ARE TO BE IMPLEMENTED DURING EACH PHASE OF CONSTRUCTION AS SHOWN ON THE APPROVED CONSTRUCTION SCHEDULE TO MINIMIZE EROSION. PREVENT THE TRANSFER OF ERODED MATERIALS ONTO ANY OFF SITE PARCEL OR INTO ANY RECEIVING WATER, AND PREVENT VIOLATING STATE AND/OR FEDERAL PERMIT REQUIREMENTS. PAYMENT FOR PREPARING AND SUBMITTING THE SEDIMENT AND EROSION CONTROL PLAN AND FOR ANY MODIFICATIONS TO THE SEDIMENT AND EROSION CONTROL PLAN DURING CONSTRUCTION WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION. THE SEDIMENT AND EROSION CONTROL PLAN SHALL DESCRIBE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES:

- TYPES AND LOCATIONS OF ALL EROSION CONTROL DEVICES
- ESTIMATED TIME EROSION CONTROL DEVICES WILL BE IN OPERATION
  - METHODS FOR CONTAINMENT OR REMOVAL OF ERODED MATERIALS FROM DISCHARGES RELATED TO DEWATERING OPERATIONS
  - METHODS FOR CONTAINMENT OR REMOVAL OF POLLUTANTS OR HAZARDOUS WASTES
  - METHODS FOR MAINTENANCE OF EROSION CONTROL DEVICES
  - SCHEDULES FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
  - NAME AND PHONE NUMBERS OF PERSON RESPONSIBLE FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
- NO CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL THE SEDIMENT AND EROSION CONTROL PLAN HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER.
  - THE CONTRACTOR SHALL UPDATE THE SEDIMENT AND EROSION CONTROL PLAN WHENEVER THERE IS A CHANGE IN CONSTRUCTION SEQUENCE OR ACTIVITIES THAT HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS OFF SITE OR INTO ANY RECEIVING WATER AND SHALL SUBMIT THE UPDATED PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER.
  - EROSION AND SEDIMENT CONTROLS SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION AND SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL.
  - FIELD CONDITIONS MAY REQUIRE THE USE OF ADDITIONAL TYPES AND QUANTITIES OF SEDIMENT AND EROSION CONTROL DEVICES DURING CONSTRUCTION AS DETERMINED BY THE CONTRACTOR, THE ENVIRONMENTAL INSPECTOR, OR THE ENGINEER.
  - THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY, IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL TO ENSURE THAT THE DEVICES ARE PROPERLY LOCATED AND MAINTAINED FOR EFFECTIVENESS. ANY REQUIRED REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY.
  - SEDIMENT TRAPPED BY THE EROSION CONTROL DEVICES IS TO BE REMOVED BY THE CONTRACTOR AFTER EACH RAIN STORM.
  - THE AMOUNT OF AREA DISTURBED AT ONE TIME SHALL BE LIMITED TO THE MINIMUM NECESSARY TO ADEQUATELY IMPLEMENT THE WORK. CONSTRUCTION OPERATIONS SHALL BE CONTROLLED TO MINIMIZE UNPROTECTED AREAS EXPOSED TO WEATHER, AND AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.
  - EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR BY STORMWATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.
  - DURING THE INSTALLATION OF STORM DRAIN OR UTILITY PIPING, SYNTHETIC BALE BARRIERS SHALL BE PLACED BELOW THE WORK ZONES TO AID IN CONTROLLING THE TRANSFER OF ERODED MATERIAL OFF SITE.
  - NEW AND EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SILTATION DURING CONSTRUCTION. BARRIERS SHALL BE PLACED AROUND ALL INCOMPLETE STORMWATER INLETS AND MANHOLES DURING CONSTRUCTION. CURB INLET FILTERS SHALL BE PLACED ACROSS THE THROATS OF ALL EXISTING AND COMPLETED CURB INLETS.
  - EXISTING FLOW CAPACITY SHALL BE MAINTAINED IN THE DRAINAGE SYSTEMS TO CONVEY RUNOFF FROM RAIN STORMS THAT OCCUR DURING CONSTRUCTION. EXISTING DRAINAGE PIPES THAT ARE NOTED TO BE PLUGGED OR REMOVED SHALL REMAIN IN SERVICE UNTIL FLOWS CAN BE DIVERTED TO THE NEW DRAINAGE SYSTEM. WHERE NEW PIPES ARE TO BE INSTALLED IN CLOSE PROXIMITY TO EXISTING PIPES THAT ARE TO BE REMOVED, PROVISIONS SHALL BE MADE TO DIVERT FLOWS FROM THE EXISTING PIPES TO THE NEW PIPES PRIOR TO RAIN STORMS. TEMPORARY PIPES SHALL BE PLACED FOR THIS PURPOSE PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY.
  - NO MORE THAN 500 FEET OF STORM DRAIN OR UTILITY PIPING SHALL BE INSTALLED WITHOUT BACKFILLING AND COMPACTING THE PIPE TRENCH.
  - STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THOSE PORTIONS OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
  - PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.
  - THE CONTRACTOR SHALL OBTAIN AN ENVIRONMENTAL MANAGEMENT PERMIT FROM THE CITY OF TALLAHASSEE GROWTH MANAGEMENT DEPARTMENT FOR ALL STOCKPILE AND CONSTRUCTION STAGING AREAS LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION.

SUPPLEMENTAL GENERAL NOTES - TREE PROTECTION:

- BARRICADE FENCING SHALL BE INSTALLED AT OR NEAR THE CRITICAL PROTECTION ZONE OF EACH TREE TO BE PROTECTED PRIOR TO INITIATION OF ANY CONSTRUCTION ACTIVITY, AND THE FENCING SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
- ALL ROOTS 3/4" IN DIAMETER AND LARGER OF TREES TO BE PROTECTED OR PRESERVED THAT ARE EXPOSED DURING TRENCHING AND EXCAVATION SHALL BE CLEANLY CUT WITH A HANDSAW AND COVERED IMMEDIATELY WITH SOIL OR KEPT MOISTENED WITH WET BURLAP OR PEAT MOSS UNTIL THE TRENCH CAN BE FILLED. WHEN IT IS NOT POSSIBLE TO BACKFILL IN THE SAME DAY, THE ROOTS SHALL BE FREELY CUT WITH A HANDSAW A REASONABLE DISTANCE FROM THE ORIGINAL CUT AND BACKFILLED IMMEDIATELY TO AVOID SOIL OR ROOT DEHYDRATION.

SUPPLEMENTAL GENERAL NOTES - PRECAST BOX CULVERT:

- CONTRACTOR SHALL DESIGN, DETAIL AND CONSTRUCT THE PRECAST BOX CULVERT IN ACCORDANCE WITH THE FOLLOWING:
  - FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STRUCTURES MANUAL, DATED JANUARY 2020.
  - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.
  - FDOT DESIGN MANUAL, CHAPTER 265.
  - FDOT STANDARD PLANS, INDEX 400-291.
  - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 410.
  - SUBSURFACE EXPLORATION AND GEOTECHNICAL ANALYSIS COMPLETED BY ALPHA GEOTECHNICAL AND TESTING SERVICES, INC., DATED SEPTEMBER 2020.
- ENVIRONMENTAL CLASSIFICATION:
  - CONCRETE – EXTREMELY AGGRESSIVE
  - STEEL – EXTREMELY AGGRESSIVE
- DESIGN METHODOLOGY:
  - LOAD AND RESISTANCE FACTOR DESIGN (LRFD).
- DESIGN LOADINGS:
  - REINFORCED CONCRETE: 150 PCF
  - LIVE LOAD: HL-93
  - LIVE LOAD SURCHARGE: 200 PSF

ORIGINAL \_\_\_\_\_ MAY 2019  
REVISIONS:  
1 \_\_\_\_\_  
2 \_\_\_\_\_  
3 \_\_\_\_\_  
4 \_\_\_\_\_  
5 \_\_\_\_\_

GENERAL NOTES

PROJECT  
MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT

SINGHOFEN & ASSOCIATES, INC.  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING

11723 Springtree Street, Suite 100  
Orlando, Florida 32817  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112



JOB NO. 2014-039.10  
DRAWN AFD/BJG  
DESIGNED RBG  
CHECKED RBG  
QC RBG

Signature \_\_\_\_\_  
Date \_\_\_\_\_

**GENERAL PAY ITEM NOTES:**

- NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICES FOR ANY ITEMS REQUIRING DEWATERING.
- NO SEPARATE PAYMENT WILL BE MADE FOR FILTER FABRIC. THE COSTS FOR FILTER FABRIC SHALL BE INCLUDED IN THE UNIT PRICES FOR ANY ITEMS REQUIRING FILTER FABRIC.
- NO SEPARATE PAYMENT WILL BE MADE FOR VIDEO TAPING PIPE CULVERTS. THE COSTS FOR VIDEO TAPING ARE INCLUDED IN THE UNIT PRICES FOR PIPE CULVERTS.
- ADDITIONAL QUANTITIES OF EROSION CONTROL AND/OR TREE PROTECTION ITEMS MAY BE NECESSARY AS DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR, THE ENVIRONMENTAL INSPECTOR, OR BY THE ENGINEER AND MUST BE APPROVED BY THE ENGINEER.
- NO CONSTRUCTION VEHICLES OR CONTRACTOR PERSONNEL VEHICLES ARE ALLOWED WITHIN THE ADJACENT PROPERTIES OR DRIVEWAYS. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING DAMAGE CAUSED BY HIS/HER PERSONNEL OR EQUIPMENT TO ADJACENT AREAS. NO ADDITIONAL PAYMENT WILL BE MADE FOR REPAIRING DAMAGE ADJACENT PROPERTIES AND DRIVEWAYS.
- UNIT PRICES FOR PIPES, CULVERTS, SEWER PIPE AND WATER MAIN INCLUDE THE COSTS FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVAL OF 1.5 INCH MINIMUM THICKNESS OF ASPHALT PAVEMENT MILLING OR FINE TYPE SP ASPHALTIC CONCRETE AT THE GROUND SURFACE OF ALL PIPE AND BOX CULVERT TRENCHES IN PAVED AREAS FOR THE PURPOSE OF SEDIMENT AND EROSION CONTROL UNTIL THE FINAL PAVEMENT IS PLACED.
- CURB AND GUTTER AND ASPHALT DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED AT NO COST TO THE CITY.
- CONTRACTOR SHALL PROVIDE TEMPORARY SHORING; DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. CONTRACTOR SHALL PROTECT ADJACENT STRUCTURES AND PROPERTIES FROM DAMAGE DUE TO THE SHORING OPERATIONS. PAYMENT INCLUDED IN THE UNIT PRICES FOR RELATED PAY ITEMS.

**STORMWATER PAY ITEM NOTES:**

**101-1: MOBILIZATION**  
THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR PREPARATION OF AN APPROVED CONSTRUCTION PROGRESS SCHEDULE, AN APPROVED EROSION CONTROL PLAN, AN APPROVED TRAFFIC CONTROL PLAN, AN APPROVED DEWATERING PLAN, THE PRECONSTRUCTION SURVEY, PREPARING AND SUBMITTING APPROVED SHOP DRAWINGS, AND FURNISHING, INSTALLING, AND REMOVING THE PROJECT SIGNS.

**102-1: MAINTENANCE OF TRAFFIC**  
THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO IMPLEMENT THE APPROVED TRAFFIC CONTROL PLAN TO SAFELY MAINTAIN TRAFFIC AROUND OR THROUGH THE WORK ZONE NOT INCLUDED FOR PAYMENT UNDER OTHER RELATED PAY ITEMS, INCLUDING WARNING AND REGULATORY SIGNS, MESSAGE BOARDS, DRUMS, BARRICADES, CHANNELIZING DEVICES, TEMPORARY CONCRETE BARRIER, WARNING LIGHTS, FLAGGERS, BUSINESS ENTRANCE SIGNS, MAINTENANCE OF EXISTING DRIVEWAYS, TEMPORARY PAVEMENT, AND REMOVAL AND REINSTALLATION OF EXISTING SIGNS IN CONFLICT WITH CONSTRUCTION AS DIRECTED BY THE ENGINEER. NO ADJUSTMENTS WILL BE MADE TO THE CONTRACT PRICE FOR INCREASES IN CONTRACT TIME.

**102-70: TEMPORARY BARRICADE FENCE (ORANGE)**  
THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY BARRICADE FENCE. THIS ITEM IS TO BE USED FOR PEDESTRIAN SAFETY, TREE PROTECTION, OR AS DIRECTED BY THE ENGINEER.

**104-14: STORMWATER POLLUTION PREVENTION**  
THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES AS REQUIRED TO PREVENT THE OFF-SITE TRANSPORT OF SEDIMENT, INCLUDING SEDIMENT BARRIERS, SOIL TRACKING PREVENTION DEVICE, INLET PROTECTION SYSTEMS, SEDIMENT BASINS, AND CONTAINMENT SYSTEMS AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL. THE PRICE ALSO INCLUDES THE PERIODIC REMOVAL AND DISPOSAL OF ACCUMULATED SEDIMENT, AND REMOVAL AND DISPOSAL OFF-SITE OF EROSION AND SEDIMENT CONTROL MATERIALS, INCLUDING ROCK AND RUBBLE RIPRAP, AT COMPLETION OF CONSTRUCTION, FURNISHING AND PLACING SUITABLE MATERIAL AS REQUIRED TO FILL SEDIMENT SUMPS, ANY PERMITS AND FEES REQUIRED FOR OFF-SITE DISPOSAL, AND TURBIDITY MONITORING IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS.

**110-1-1: CLEARING AND GRUBBING**  
THE UNIT PRICE ALSO INCLUDES REMOVAL AND DISPOSAL OF ALL BRUSH, TREES, STUMPS, ROOTS, RUBBISH, DEBRIS, REMOVAL AND DISPOSAL OF ASPHALT, BASE, SUB-BASE, CURBS, SIDEWALKS, DRIVEWAYS, DRAINAGE STRUCTURES, PIPES, FENCES, AND ALL OTHER STRUCTURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED AND FOR WHICH OTHER ITEMS OF THE CONTRACT DO NOT SPECIFY THE REMOVAL THEREOF. PARTIAL PAYMENTS WILL BE BASED UPON THE ESTIMATED TOTAL VALUE OF WORK COMPLETED TO THE DATE OF THE ESTIMATE AS DETERMINED BY THE ENGINEER. ALL PARTIAL ESTIMATES AND PAYMENTS ARE SUBJECT TO CORRECTION IN SUBSEQUENT ESTIMATES AND PAYMENT. THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR REMOVAL OF EXISTING FENCES AND RELOCATION OR REPLACEMENT WITH NEW FENCE OR WITH THE FENCING MATERIAL THAT WAS REMOVED IF IT IS UNDAMAGED, AND FOR THE RELOCATION OR REPLACEMENT OF MAILBOXES.

**334-1-13: SUPERPAVE ASPHALTIC CONCRETE**  
THE UNIT PRICE ALSO INCLUDES ALL PAVEMENT MARKINGS INCLUDING TEMPORARY STRIPING DURING ASPHALT CURING PERIOD, REPLACEMENT OF TRAFFIC SIGNAL LOOP DETECTORS IF DISTURBED BY CONSTRUCTION, AND ADJUSTMENT OF ALL EXISTING UTILITY FRAMES AND COVERS AND ALL WATER AND GAS VALVE BOXES WITHIN THE LIMITS OF CONSTRUCTION TO BE FLUSH WITH FINISHED PAVEMENT. THE CONTRACTOR SHALL INSTALL THE PAVEMENT IN LAYERS AS SHOWN IN THE TYPICAL PAVEMENT RECONSTRUCTION SECTION(S). ALL EARTHWORK OPERATIONS (GRADING, EXCAVATION) REQUIRED TO CONSTRUCT NEW PAVEMENT SHALL BE INCLUDED IN COST OF PAVEMENT.

**400-14-7: PRECAST BOX CULVERT (14'x7')**  
THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL PRECAST REINFORCED CONCRETE BOX CULVERT. INCLUDING CONCRETE, REINFORCING STEEL, SHEETING AND/OR SHORING AND ALL OTHER MEASURES REQUIRED TO LIMIT THE SIZE OF THE WORK ZONE AND PROVIDE A SAFE WORKING ENVIRONMENT, DEWATERING, FILTER FABRIC, GROUT, JOINT FILLER, FURNISHING PLACING AND COMPACTING SELECT BEDDING MATERIAL, AND FURNISHING SELECT MATERIAL FOR BACKFILL WHEN SUITABLE MATERIAL IS NOT AVAILABLE ON SITE. ALL EARTHWORK OPERATIONS AND MATERIALS NEEDED TO CONSTRUCT BOX CULVERT, FILL EXISTING DITCH, AND CONSTRUCT SWALE SHALL BE INCLUDED IN THE UNIT COST OF THE BOX CULVERT. ALL COORDINATION EFFORTS NEEDED TO LOCATE, PROTECT OR ADJUST UTILITIES SHALL BE INCLUDED IN THE COST OF THE BOX CULVERT.

**400-4-1 and 400-4-11: CONC. CLASS IV, CULVERTS AND CONC. CLASS IV, RETAINING WALLS**  
THE UNIT PRICE ALSO INCLUDES FURNISHING SELECT MATERIAL FOR BACKFILL WHEN SUITABLE MATERIAL IS NOT AVAILABLE ON SITE.

**425-1-541, 425-1-551, 425-1-552 AND 425-1-554: DITCH BOTTOM INLETS**  
UNLESS OTHERWISE NOTED IN THE PLANS, THE UNIT PRICES ALSO INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING TRAFFIC BEARING GRATES MEETING HS-20 LOADING REQUIREMENTS. THE UNIT PRICES FOR DITCH BOTTOM INLETS WITH SLOTS ALSO INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING 1 INCH DIAMETER POWDER COATED STEEL BARS CAST INTO THE STRUCTURES AS SHOWN IN THE PLANS. THE UNIT PRICE ALSO INCLUDES PAYMENT FOR ACCESS STEPS, KNOCKOUTS, AND CONCRETE.

**425-2-61, 425-3-62: MANHOLES AND JUNCTION BOXES**  
UNLESS OTHERWISE NOTED IN THE PLANS, THE UNIT PRICES ALSO INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING TWO-PIECE COVERS AND FRAMES WITH 3'-0" OPENINGS FOR ALL MANHOLES, REGARDLESS OF DEPTH. THE UNIT PRICE ALSO INCLUDES PAYMENT FOR ACCESS STEPS, KNOCKOUTS, AND CONCRETE.

**430-175-118 THRU 430-175-154: PIPE CULVERT, CONCRETE**  
THE UNIT PRICES ALSO INCLUDE PAYMENT FOR SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL, AND FURNISHING SELECT MATERIAL FOR BACKFILL WHEN SUITABLE MATERIAL IS NOT AVAILABLE ON SITE.

**519-2: POURED GROUT**  
THE UNIT PRICES CONSTITUTE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE PLACEMENT OF GROUT BY POUR AS DESIGNATED ON THE PLANS.

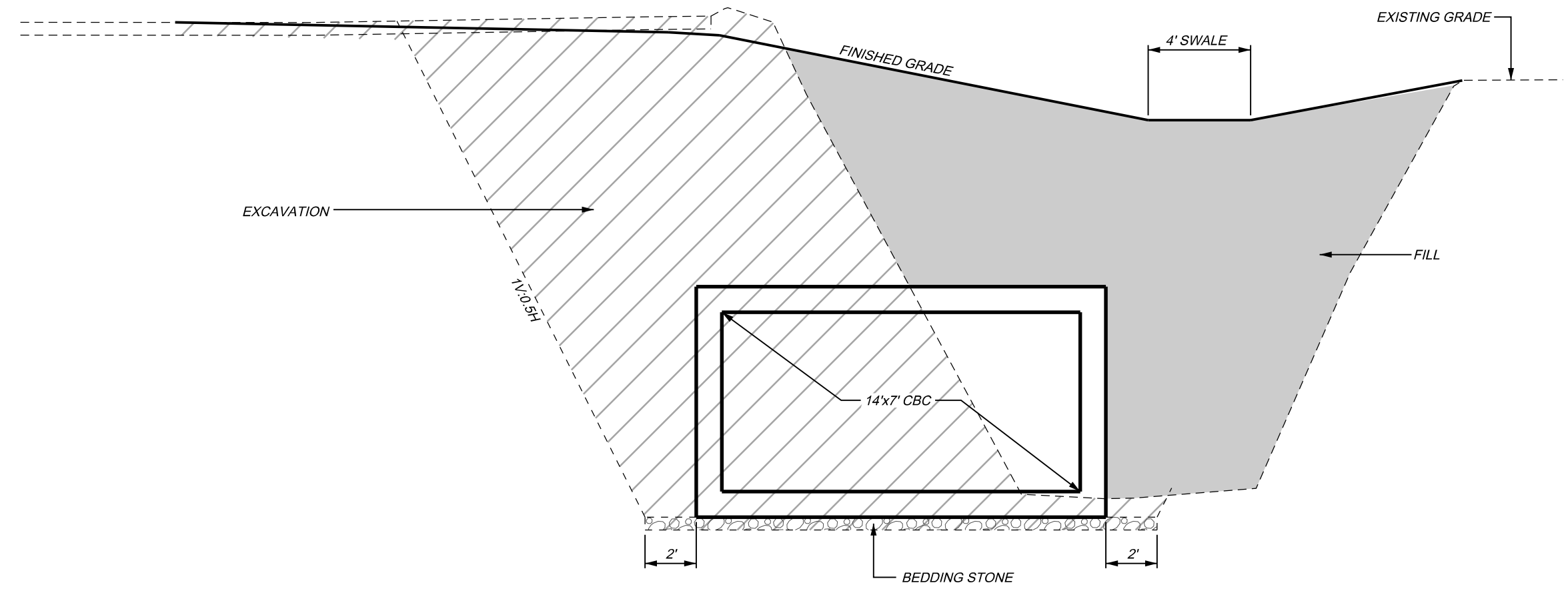
**530-3-3: RUBBLE RIPRAP (BANK & SHORE)**  
THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO INSTALL RUBBLE RIPRAP, INCLUDING FILTER FABRIC, AND BEDDING STONE.

**550-10-220: FENCING**  
THE UNIT PRICES CONSTITUTE FULL COMPENSATION FOR FURNISHING AND ERECTING METAL CHAIN LINK FENCE WITH BLACK TYPE IV M181 CLASS A VINYL COATED FABRIC, INCLUDING ALL POSTS, RAILS, TRUSS RODS, TOP RAILS AND/OR TENSION WIRES AS INDICATED ON THE PLANS, TIE WIRES, STRETCHER BARS, MISCELLANEOUS FITTINGS, ANCHOR PLATES, ANCHORS, NUTS AND WASHERS, AND OTHER HARDWARE VINYL COATED OR PAINTED TO MATCH THE COLOR. THE UNIT PRICE ALSO INCLUDES THE FURNISHING AND INSTALLATION OF SLATS AS INDICATED ON THE PLANS.

**548-13: RETAINING WALL SYSTEM, TEMPORARY (INCLUDES STEEL CONCR., FLOWABLE FILL, TIMBER)**  
THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL A SOLDIER PILE RETAINING WALL SYSTEM (SACRIFICIAL), INCLUDING DRILLING, STEEL, CONCRETE, FLOWABLE FILL, AND ALL OTHER MEASURES REQUIRED TO LIMIT THE SIZE OF THE WORK ZONE, PROTECT ADJACENT PROPERTIES, AND PROTECT EXISTING SAND-CEMENT RETAINING WALL.

**570-1-10: PERFORMANCE TURF, SOD, CENTIPEDE**  
THE UNIT PRICES CONSTITUTE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED FOR ESTABLISHING A STAND OF GRASS BY SODDING IN ACCORDANCE WITH SECTION 570 OF THE STANDARD SPECIFICATIONS, INCLUDING FURNISHING AND PLACING SOD, PEGGING WHEN SPECIFIED IN THE PLANS, AND FURNISHING AND APPLYING FERTILIZER AND WATER. SOD WITH NETTING SHALL NOT BE USED. THE UNIT PRICES ALSO INCLUDES MAINTENANCE, INCLUDING LITTER REMOVAL AND MOWING UNTIL FINAL ACCEPTANCE.

**SEWER PAY ITEM NOTES:**  
PAYMENT FOR THE ITEMS OF WORK REQUIRED FOR SEWER CONSTRUCTION IS GOVERNED BY THE PAY ITEM MANUAL FOR WATER AND SEWER CONSTRUCTION PREPARED BY WATER RESOURCES ENGINEERING. THE PAY ITEM MANUAL AND SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION ARE AVAILABLE ONLINE AT:  
<https://www.tal.gov.com/vou/documents.aspx>



**LEGEND**

EXCAVATION - EXCAVATION BELOW THE ORIGINAL GROUND LINE AS NECESSARY FOR CONSTRUCTION OF THE DITCH AND CBC.

FILL - COMPACTED FILL MATERIAL AS NEEDED TO CONSTRUCT THE CBC, SWALE, DRIVEWAY, AND TO FILL THE EXISTING DITCH.

**NOTES**

- EARTHWORK QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ALL EARTHWORK OPERATIONS AND MATERIALS NEEDED TO CONSTRUCT BOX CULVERT, FILL EXISTING DITCH, AND CONSTRUCT SWALE SHALL BE INCLUDED IN THE UNIT COST OF THE BOX CULVERT.
- CALCULATED QUANTITIES FOR EXCAVATION AND FILL ARE IN PLACE VOLUMES, WITH NO FILL OR TRUCK ADJUSTMENTS APPLIED.
- THE QUANTITIES FOR EXCAVATION AND FILL WERE CALCULATED TO THE BOTTOM WIDTHS SHOWN AND A BACK SLOPE OF 1v:0.5h.

**EARTHWORK FOR CBC CONSTRUCTION**

SCALE: 1"=5'

SUMMARY OF EARTHWORK		
DESCRIPTION	EXCAVATION (CY)	FILL (CY)
Estimate of earthwork required for construction of box culvert, filling, existing ditch, and construction proposed swale.	13,232	9,111
<b>TOTALS =</b>	<b>13,232</b>	<b>9,111</b>

Notes:

- CALCULATED QUANTITIES ARE IN PLACE WITH NO FILL OR TRUCK ADJUSTMENTS APPLIED.
- EARTHWORK QUANTITIES ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ALL EARTHWORK OPERATIONS AND MATERIALS NEEDED TO CONSTRUCT BOX CULVERT, FILL EXISTING DITCH AND CONSTRUCT SWALE SHALL BE INCLUDED IN THE COST OF THE BOX CULVERT.

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAINAGE PIPE SIZE						DITCH BOTTOM INLETS				MANHOLES		WALLS		REMARKS					
						12"	18"	24"	30"	54"	14'x7'	D	E	J-E	P-8	P-8	J-8	END	HEAD						
												<10'	<10'	>10'	>10'	>10'	<10'	<10'							
P	S-2	11+26.25	RT.	INLET, PIPE	1				5													1 TRAV. SLOT			
F																									
P	S-4	13+02.00	RT.	INLET, PIPE	1		13						1										2 TRAV. SLOTS		
F																									
P	S-6	13+02.12	LT.	MH	1												1						RISER ON CBC		
F																									
P	S-7	15+89.82	RT.	MH, PIPE	1		30											1					RISER ON CBC		
F																									
P	S-8	18+32.28	RT.	INLET, PIPE	1				4	5														1 TRAV. SLOT	
F																									
P	S-9	22+00.00	LT.	MH															1					RISER ON CBC	
F																									
P	S-10	22+54.09	LT.	MH, PIPE	1			6												1					
F																									
P	S-11	23+60.65	RT.	INLET	1																			RISER ON CBC w/ 2 TRAV. SLOTS	
F																									
P	S-12	24+25.00	RT.	INLET	1																			RISER ON CBC w/ 2 TRAV. SLOTS	
F																									
P	S-14	24+78.26	RT.	INLET	1																			1 TRAV. SLOT	
F																									
P	S-16	25+95.00	RT.	MH																					
F																									
P	CBC-02	11+10.45	RT.	CBC	1																			BEGIN CBC	
F																									
P	CBC-04	11+60.20	RT.	CBC	1																				
F																									
P	CBC-06	18+08.74	RT.	CBC	1																				
F																									
P	CBC-08	19+94.26	RT.	CBC	1																				
F																									
P	CBC-10	21+23.06	RT.	CBC	1																				
F																									
P	CBC-12	22+89.79	RT.	CBC	1																				
F																									
P	CBC-14	23+74.85	RT.	CBC	1																				
F																									
P	CBC-16	26+06.33	RT.	CBC	1																				
F																									
P	CBC-18	26+29.14	RT.	HEADWALL																					
F																									
GRADE TOTALS					PLAN QUANTITY	0	43	22	9	5	1519	3	1	1	1	1	4	0	0	1					
					FINAL QUANTITY																				

3/7/2022 N:\tal\assesse\McCord\_Ditch\_Rehab\DCN\MDB-Quantities.dgn

ORIGINAL MAY 2019

REVISIONS:

1

2

3

4

5

QUANTITIES & PAY ITEM NOTES

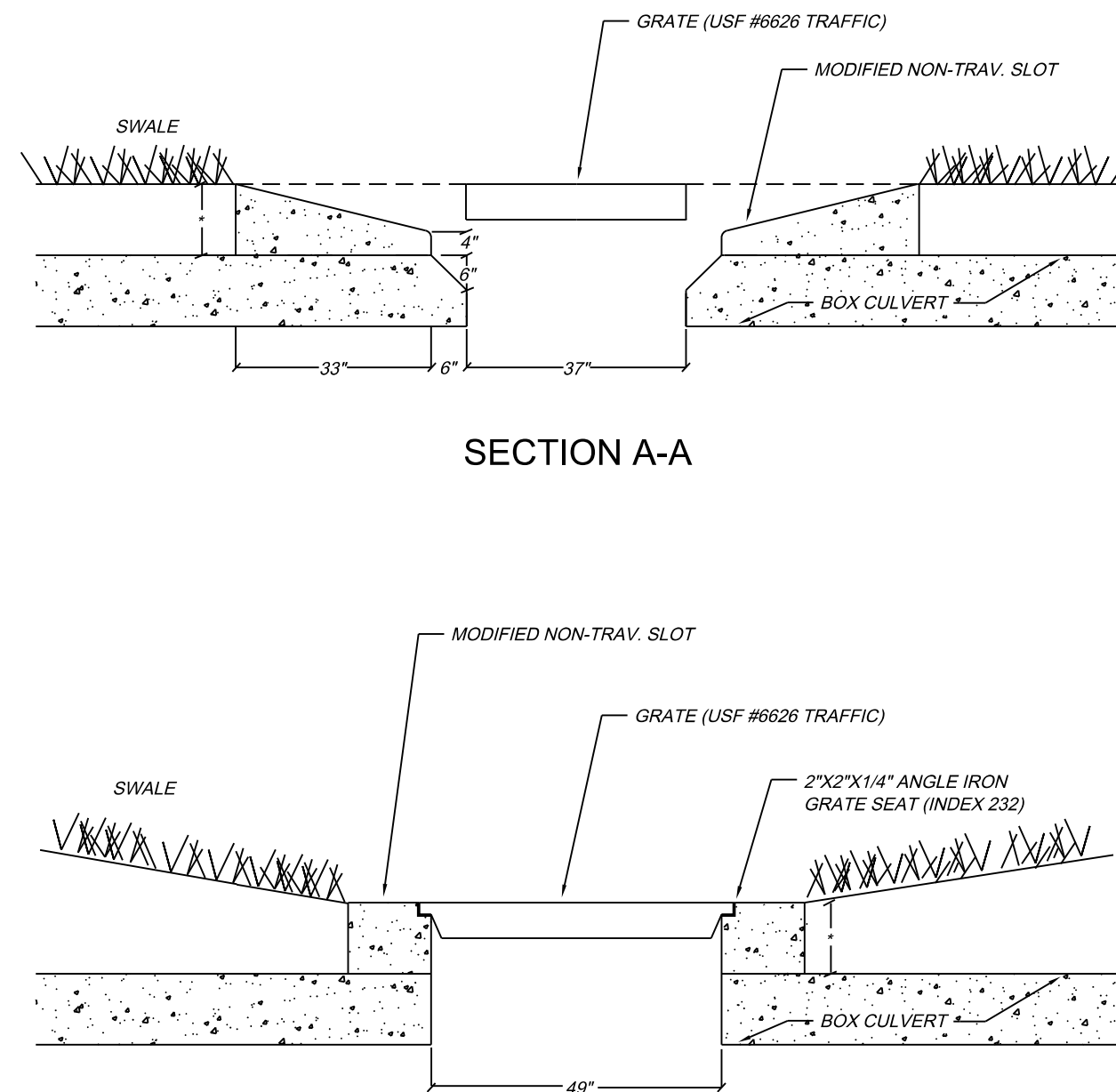
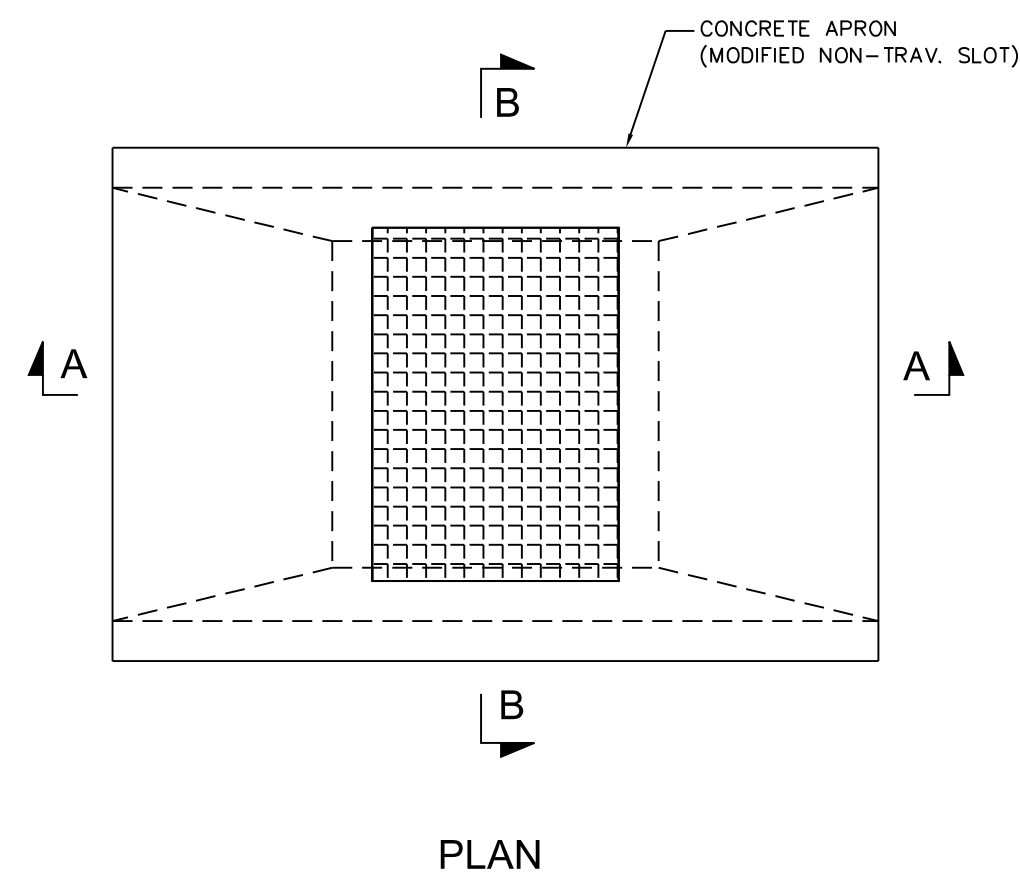
PROJECT  
McCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT

SINGHOFEN & ASSOCIATES, INC.  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Ospreygrove Street, Suite 100  
Orlando, FL 32817  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112

JOB NO. 2014-039.10  
DRAWN AFD/BJG  
DESIGNED RBG  
CHECKED RBG  
OC RBG

SHEET 4

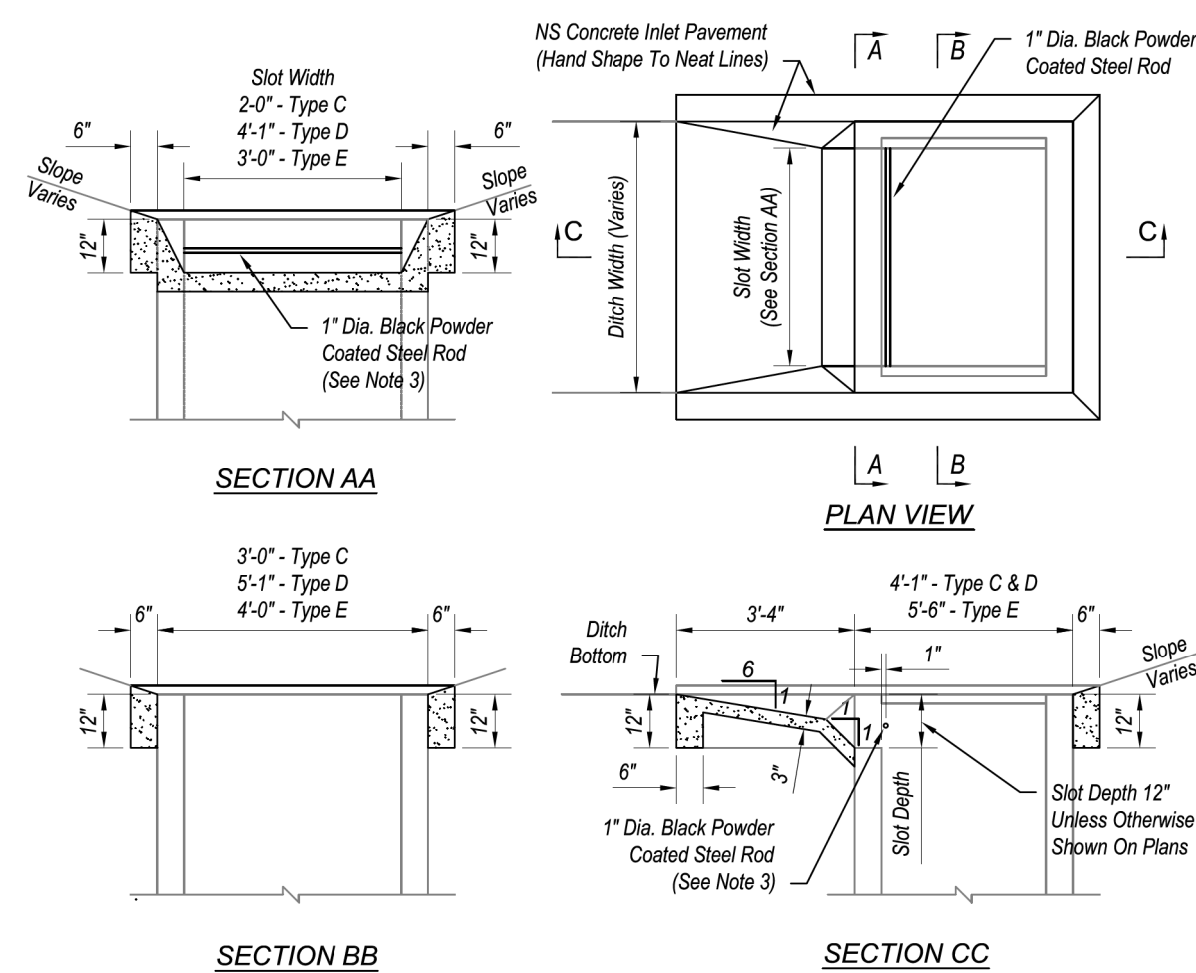
3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Renab\_DGN\MDR--TypicalSections.dgn



NOTE: USE TYPE D INLET REINFORCEMENT SCHEDULE (INDEX 233) FOR MOD. NON-TRAV. SLOT

\*S-11: 15"  
 S-12: 12"

STRUCTURES S-11 & S-12 DETAIL  
 N.T.S.



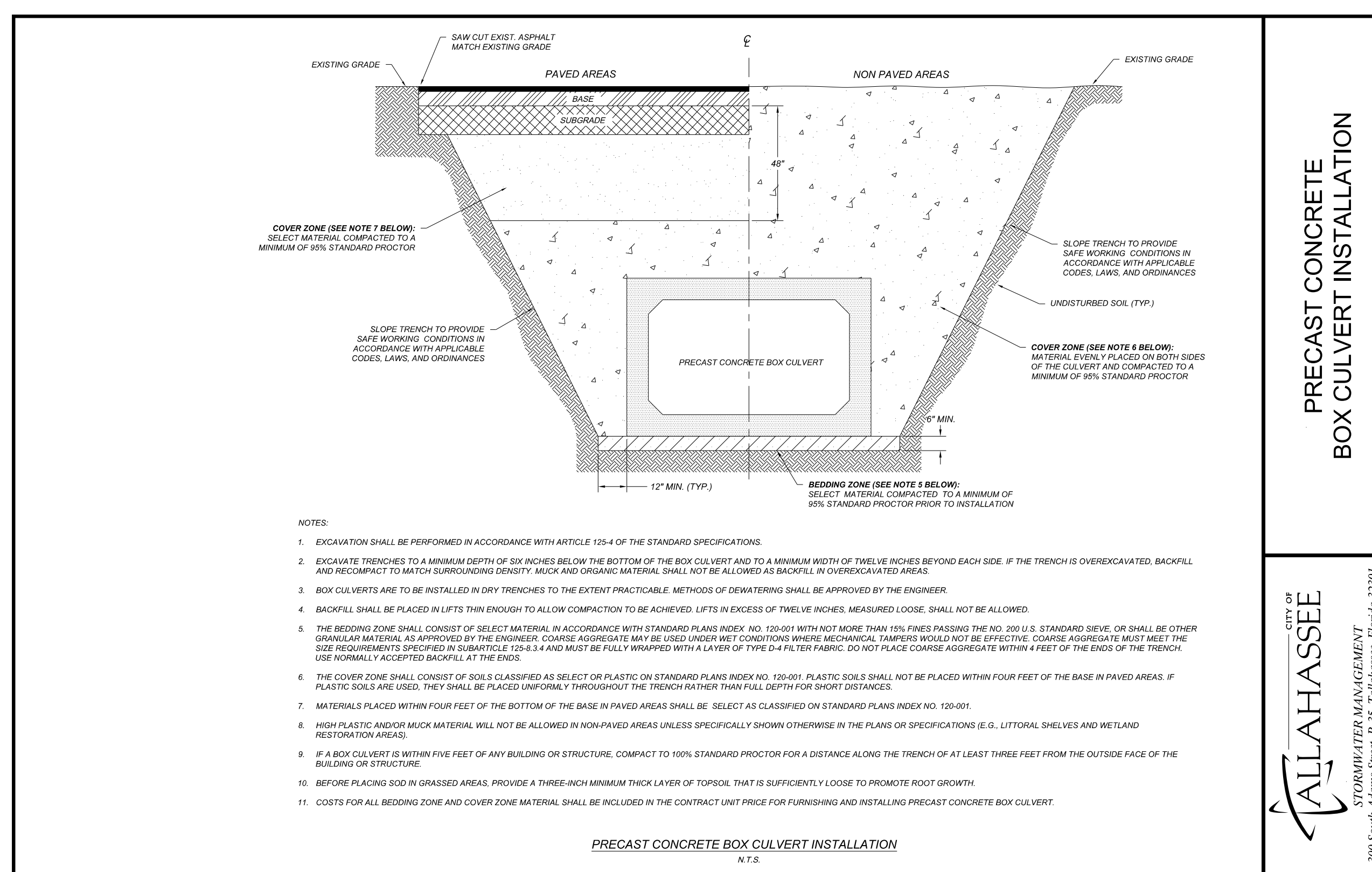
QUANTITIES NS CONCRETE INLET PAVEMENT		
INLET TYPE	SINGLE SLOT	DOUBLE SLOT
C	0.51 CY	0.72 CY
D	0.58 CY	0.79 CY
E	0.60 CY	0.81 CY

- NOTES:
- SLOTS MAY BE CONSTRUCTED ON EITHER OR BOTH ENDS OF INLETS AS SHOWN ON THE PLANS.
  - STEEL GRATES MEETING HS-20 LOADING REQUIREMENTS ARE TO BE USED ON ALL INLETS WITH SLOTS, UNLESS NOTED OTHERWISE ON THE PLANS.
  - BLACK POWDER COATED STEEL RODS ARE TO BE INSTALLED HORIZONTALLY ACROSS EACH OPENING WITH A SLOT DEPTH GREATER THAN 6". THE RODS ARE TO BE LOCATED VERTICALLY SUCH THAT THE SPACING BETWEEN THE RODS AND THE TOP AND BOTTOM OF THE SLOT OPENING ARE EQUAL. WHEN THE SLOT DEPTH IS GREATER THAN 12", MULTIPLE RODS SHALL BE PROVIDED AND LOCATED SUCH THAT THE VERTICAL SPACING BETWEEN THE RODS AND BETWEEN THE RODS AND THE TOP AND BOTTOM OF THE SLOT OPENING DO NOT EXCEED 6".
  - THE COST OF SLOTS AND THE COSTS FOR FURNISHING AND INSTALLING BLACK POWDER COATED STEEL RODS, WHEN REQUIRED, IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INLET.
  - THE CONCRETE QUANTITIES LISTED ARE PROVIDED FOR INFORMATION ONLY. THE QUANTITIES ARE BASED ON A 4" WIDE DITCH AND ON A 12" NON-TRAVERSABLE SLOT DEPTH. THE QUANTITIES MAY VARY FOR DIFFERENT DITCH WIDTHS AND SLOT DEPTHS.

MODIFIED NON-TRAVERSABLE SLOTS FOR DITCH BOTTOM INLETS  
 (PRECAST TYPE D INLETS SHOWN - TYPES C AND E SIMILAR)  
 N.T.S.

MODIFIED NON-TRAVERSABLE SLOTS FOR DITCH BOTTOM INLETS

CITY OF  
**Tallahassee**  
 STORMWATER MANAGEMENT  
 300 South Adams Street, B-35, Tallahassee, Florida 32301

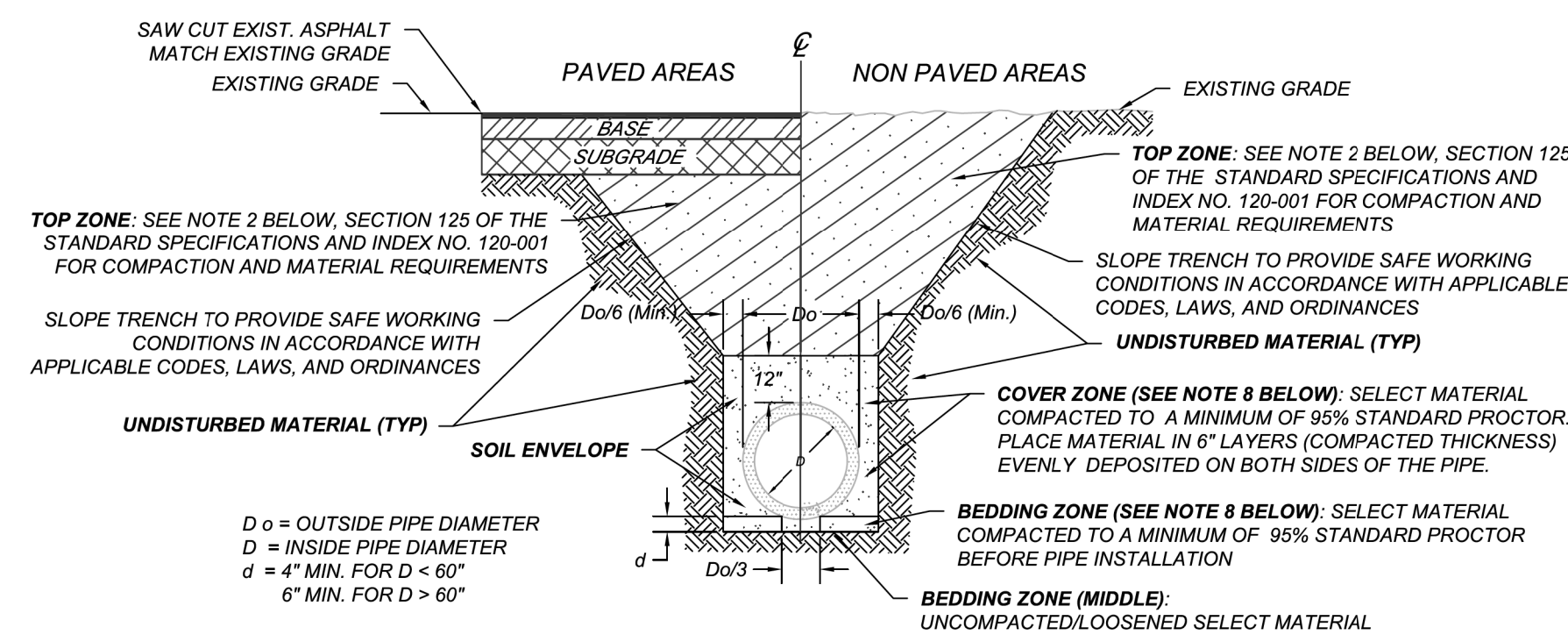


- NOTES:
- EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 125-4 OF THE STANDARD SPECIFICATIONS.
  - EXCAVATE TRENCHES TO A MINIMUM DEPTH OF SIX INCHES BELOW THE BOTTOM OF THE BOX CULVERT AND TO A MINIMUM WIDTH OF TWELVE INCHES BEYOND EACH SIDE. IF THE TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT TO MATCH SURROUNDING DENSITY. MUCK AND ORGANIC MATERIAL SHALL NOT BE ALLOWED AS BACKFILL IN OVEREXCAVATED AREAS.
  - BOX CULVERTS ARE TO BE INSTALLED IN DRY TRENCHES TO THE EXTENT PRACTICABLE. METHODS OF DEWATERING SHALL BE APPROVED BY THE ENGINEER.
  - BACKFILL SHALL BE PLACED IN LIFTS THIN ENOUGH TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF TWELVE INCHES, MEASURED LOOSE, SHALL NOT BE ALLOWED.
  - THE BEDDING ZONE SHALL CONSIST OF SELECT MATERIAL IN ACCORDANCE WITH STANDARD PLANS INDEX NO. 120-001 WITH NOT MORE THAN 15% FINES PASSING THE NO. 200 U.S. STANDARD SIEVE, OR SHALL BE OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. COARSE AGGREGATE MAY BE USED UNDER WET CONDITIONS WHERE MECHANICAL TAMPERS WOULD NOT BE EFFECTIVE. COARSE AGGREGATE MUST MEET THE SIZE REQUIREMENTS SPECIFIED IN SUBARTICLE 125-4.4 AND MUST BE FULLY WRAPPED WITH A LAYER OF TYPE D-4 FILTER FABRIC. DO NOT PLACE COARSE AGGREGATE WITHIN 4 FEET OF THE ENDS OF THE TRENCH. USE NORMALLY ACCEPTED BACKFILL AT THE ENDS.
  - THE COVER ZONE SHALL CONSIST OF SOILS CLASSIFIED AS SELECT OR PLASTIC ON STANDARD PLANS INDEX NO. 120-001. PLASTIC SOILS SHALL NOT BE PLACED WITHIN FOUR FEET OF THE BASE IN PAVED AREAS. IF PLASTIC SOILS ARE USED, THEY SHALL BE PLACED UNIFORMLY THROUGHOUT THE TRENCH RATHER THAN FULL DEPTH FOR SHORT DISTANCES.
  - MATERIALS PLACED WITHIN FOUR FEET OF THE BOTTOM OF THE BASE IN PAVED AREAS SHALL BE SELECT AS CLASSIFIED ON STANDARD PLANS INDEX NO. 120-001.
  - HIGH PLASTIC AND/OR MUCK MATERIAL WILL NOT BE ALLOWED IN NON-PAVED AREAS UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE PLANS OR SPECIFICATIONS (E.G. LITTORAL SHELVES AND WETLAND RESTORATION AREAS).
  - IF A BOX CULVERT IS WITHIN FIVE FEET OF ANY BUILDING OR STRUCTURE, COMPACT TO 100% STANDARD PROCTOR FOR A DISTANCE ALONG THE TRENCH OF AT LEAST THREE FEET FROM THE OUTSIDE FACE OF THE BUILDING OR STRUCTURE.
  - BEFORE PLACING SOIL IN GRASSED AREAS, PROVIDE A THREE-INCH MINIMUM THICK LAYER OF TOPSOIL THAT IS SUFFICIENTLY LOOSE TO PROMOTE ROOT GROWTH.
  - COSTS FOR ALL BEDDING ZONE AND COVER ZONE MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR FURNISHING AND INSTALLING PRECAST CONCRETE BOX CULVERT.

PRECAST CONCRETE BOX CULVERT INSTALLATION  
 N.T.S.

PRECAST CONCRETE BOX CULVERT INSTALLATION

CITY OF  
**Tallahassee**  
 STORMWATER MANAGEMENT  
 300 South Adams Street, B-35, Tallahassee, Florida 32301



- NOTES:
- THE SOIL ENVELOPE SHALL USE MATERIAL MEETING AASHTO CLASSIFICATION OF A-1 SAND, A-3, OR A-2-4. FOR REINFORCED CONCRETE PIPE WITH DIAMETERS 30-INCHES OR GREATER, THE CONTRACTOR MAY CHOOSE TO REDUCE THE COVER ZONE TO THE SPRINGLINE OF THE PIPE. COST FOR SELECT MATERIAL FOR THE SOIL ENVELOPE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES ASSOCIATED WITH THIS WORK.
  - THE TOP ZONE SHALL USE MATERIAL AS DEFINED IN INDEX NO. 120-001. NO A-4 MATERIAL SHALL BE PLACED BELOW THE WATER LEVEL. IF PLACED BELOW THE WATER LEVEL, A-2-4 MATERIAL MUST BE NON-PLASTIC AND CONTAIN LESS THAN 15% PASSING THE NO. 200 SIEVE. IN PAVED AREAS HIGH PLASTIC AND/OR MUCK MATERIALS WILL NOT BE ALLOWED AS BACKFILL. IN NON-PAVED AREAS MUCK MATERIAL WILL NOT BE ALLOWED AS BACKFILL, UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE PLANS OR SPECIFICATIONS, (E.G. LITTORAL SHELVES AND WETLAND RESTORATION AREAS).
  - TRENCHES ARE TO BE EXCAVATED IN ACCORDANCE WITH SUBARTICLE 125-4.4 OF THE STANDARD SPECIFICATIONS.
  - IF THE TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT IN ACCORDANCE WITH SECTION 125-9.2.1. MUCK AND ORGANIC MATERIAL SHALL NOT BE ALLOWED AS BACKFILL IN OVEREXCAVATED AREAS.
  - HAND DIG FOR BELL JOINTS. BEARING FROM JOINT TO JOINT WILL NOT BE ALLOWED.
  - PIPES ARE TO BE INSTALLED IN DRY TRENCHES. OPEN TRENCH PUMPING FOR DEWATERING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
  - BACKFILL SHALL BE PLACED IN LIFTS THIN ENOUGH TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF TWELVE INCHES, MEASURED LOOSE, SHALL NOT BE ALLOWED.
  - IF THE PIPE IS BENEATH OR WITHIN 5-FEET OF ANY BUILDING, COMPACT TO 100% STANDARD PROCTOR. IF THE PIPE IS NEAR ANY STRUCTURE, COMPACT TO 100% STANDARD PROCTOR FOR A DISTANCE OF AT LEAST ONE PIPE DIAMETER, BUT NOT LESS THAN THREE FEET FROM THE OUTSIDE FACE OF THE STRUCTURE.
  - BEFORE PLACING SOIL IN GRASSED AREAS, PROVIDE A THREE-INCH MINIMUM THICK LAYER OF TOPSOIL THAT IS SUFFICIENTLY LOOSE TO PROMOTE ROOT GROWTH.

STORM DRAIN PIPE INSTALLATION  
 N.T.S.

STORM DRAIN PIPE INSTALLATION

CITY OF  
**Tallahassee**  
 STORMWATER MANAGEMENT  
 300 South Adams Street, B-35, Tallahassee, Florida 32301

PROJECT: MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT

DESIGNED BY: AFD/BJG  
 CHECKED BY: RBG  
 OC: RBG

DATE: MAY 2019

REVISIONS:

1	
2	
3	
4	
5	

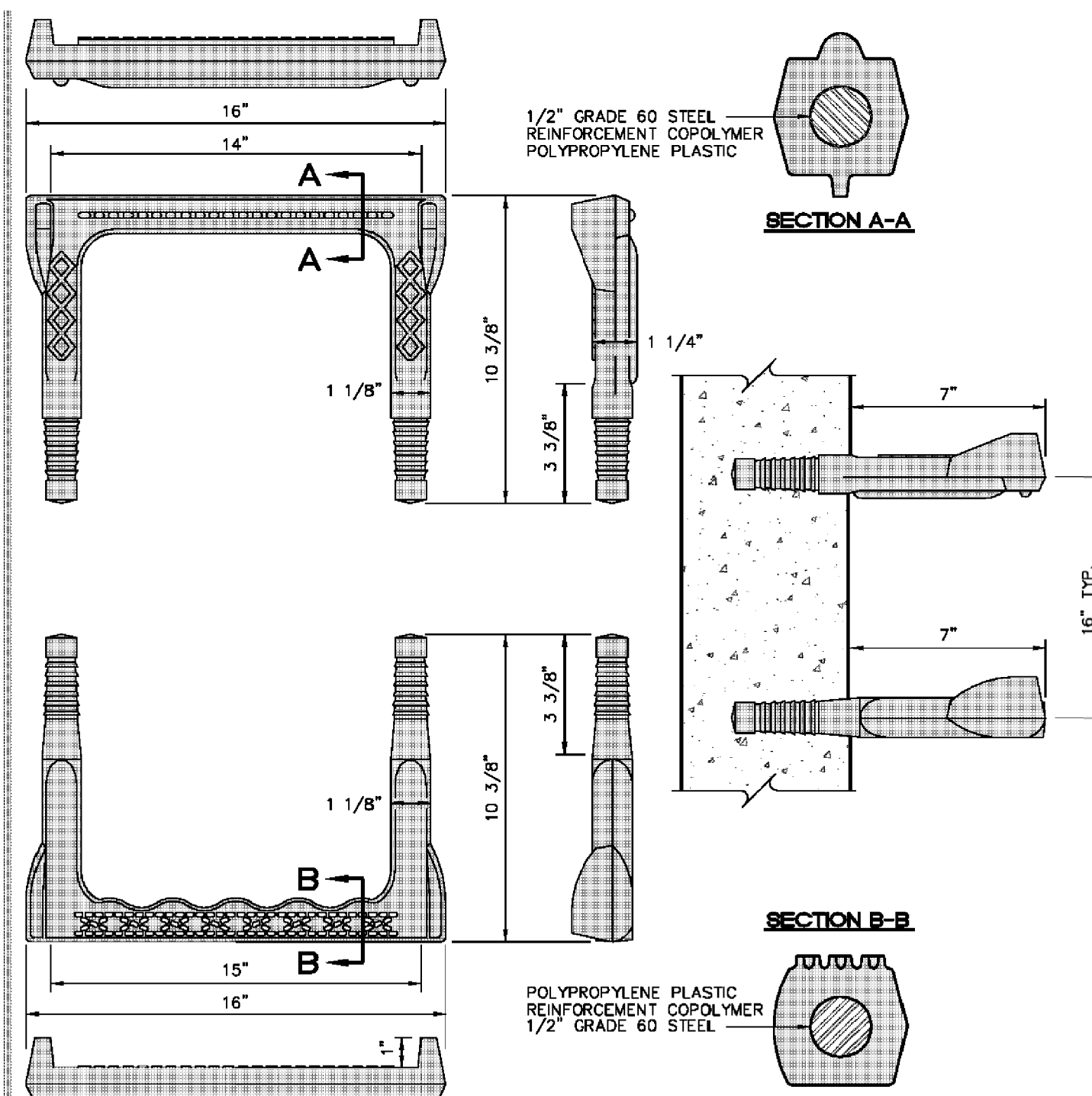
TYPICAL SECTIONS & DETAILS

SINGHOFEN & ASSOCIATES, INC.  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Springdale Street, Suite 100  
 Orlando, Florida 32817  
 PH: (407) 679-3001  
 FAX: (407) 679-2691  
 DBPR No. 5112

CITY OF  
**Tallahassee**  
 STORMWATER MANAGEMENT  
 300 South Adams Street, B-35, Tallahassee, Florida 32301

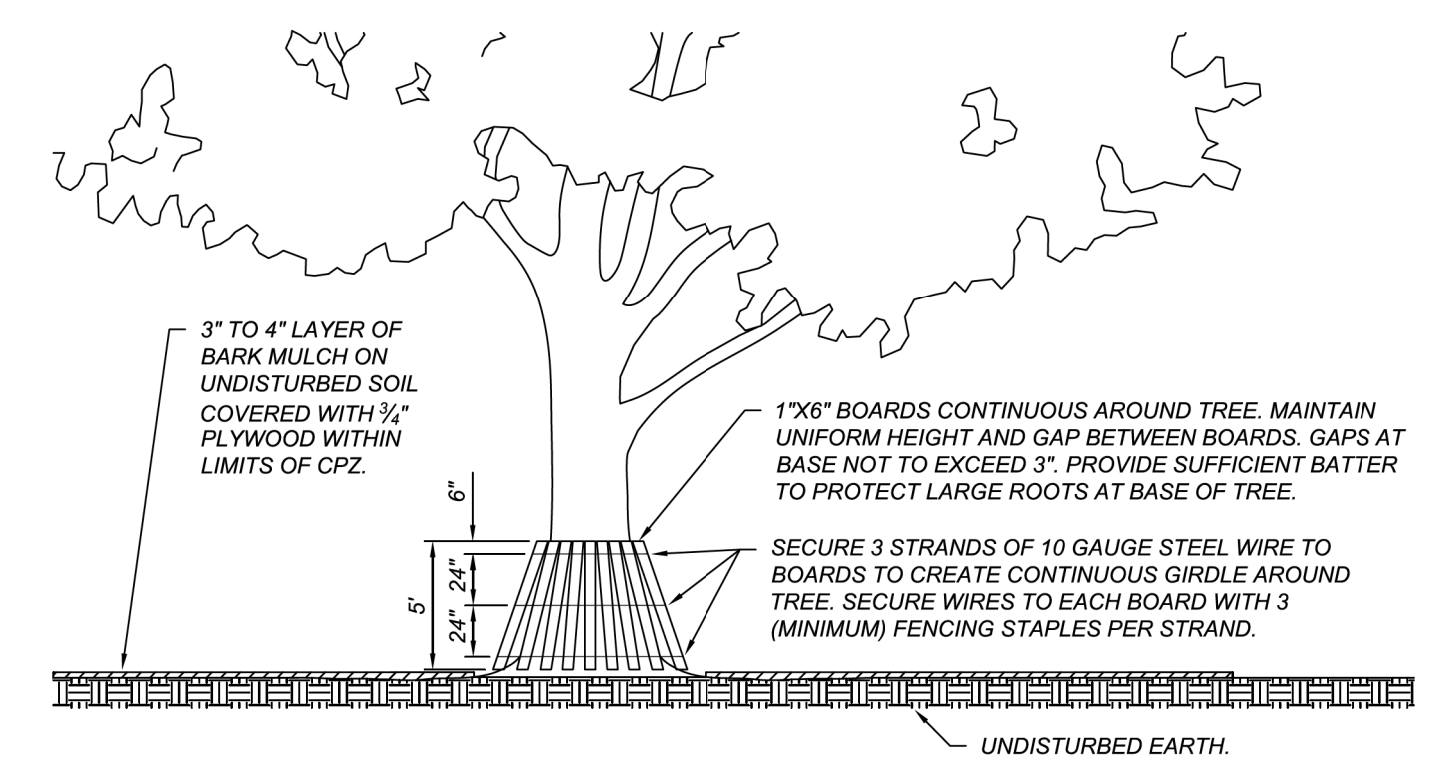
JOB NO. 2014-039.10  
 DRAWN: AFD/BJG  
 DESIGNED: RBG  
 CHECKED: RBG  
 OC: RBG

SHEET 5



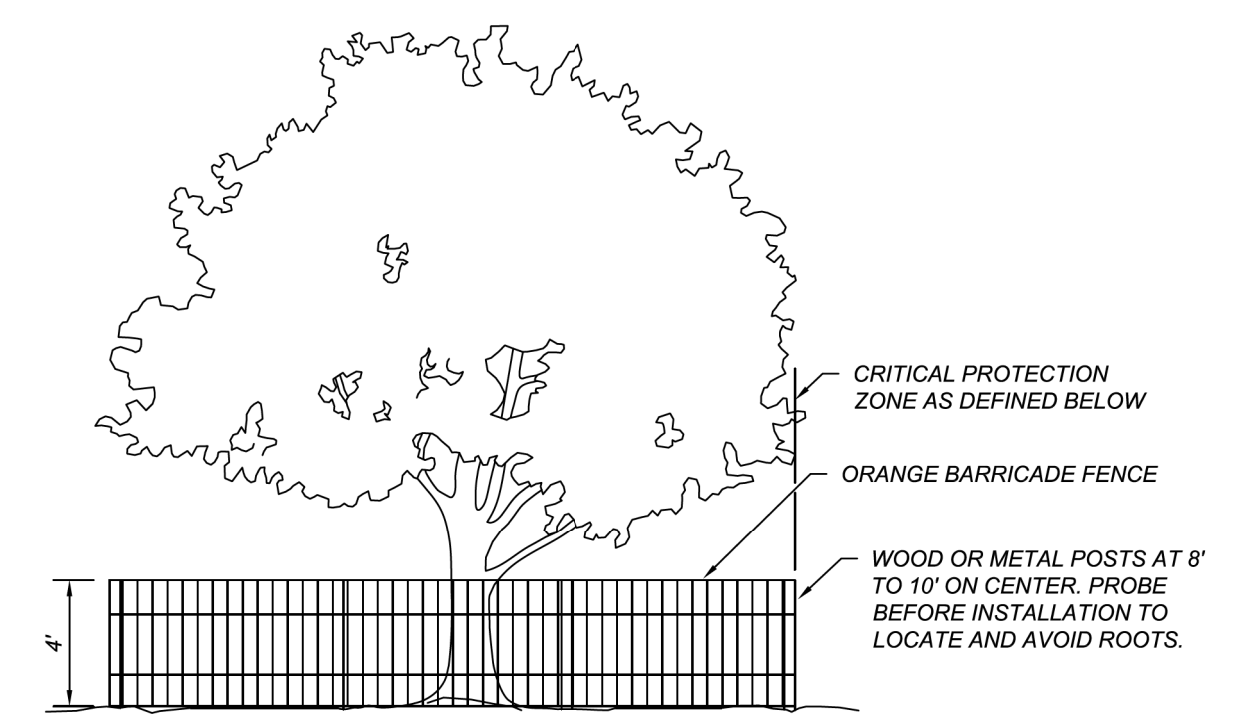
- NOTES:**
1. Step design, installation, and material shall meet the requirements of ASTM C478
  2. Plastic material consists of super high impact resistant copolymer polypropylene and conform to specific requirements as detailed in ASTM D4101.
  3. Reinforcing steel shall be 1/2" rebar, grade 60 and meet the requirements of ASTM A615.
  4. Step width and spacing to be consistent with the latest requirements of OSHA.

**STRUCTURE ACCESS STEP DETAIL**  
N.T.S.



**TRUNK PROTECTION**  
N.T.S.

NOTE:  
TRUNK PROTECTION SHALL BE PROVIDED WHEN CONSTRUCTION ACTIVITIES ARE REQUIRED WITHIN THE CRITICAL PROTECTION ZONE (CPZ) OF AN EXISTING TREE THAT IS TO REMAIN. THE CPZ IS THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT.

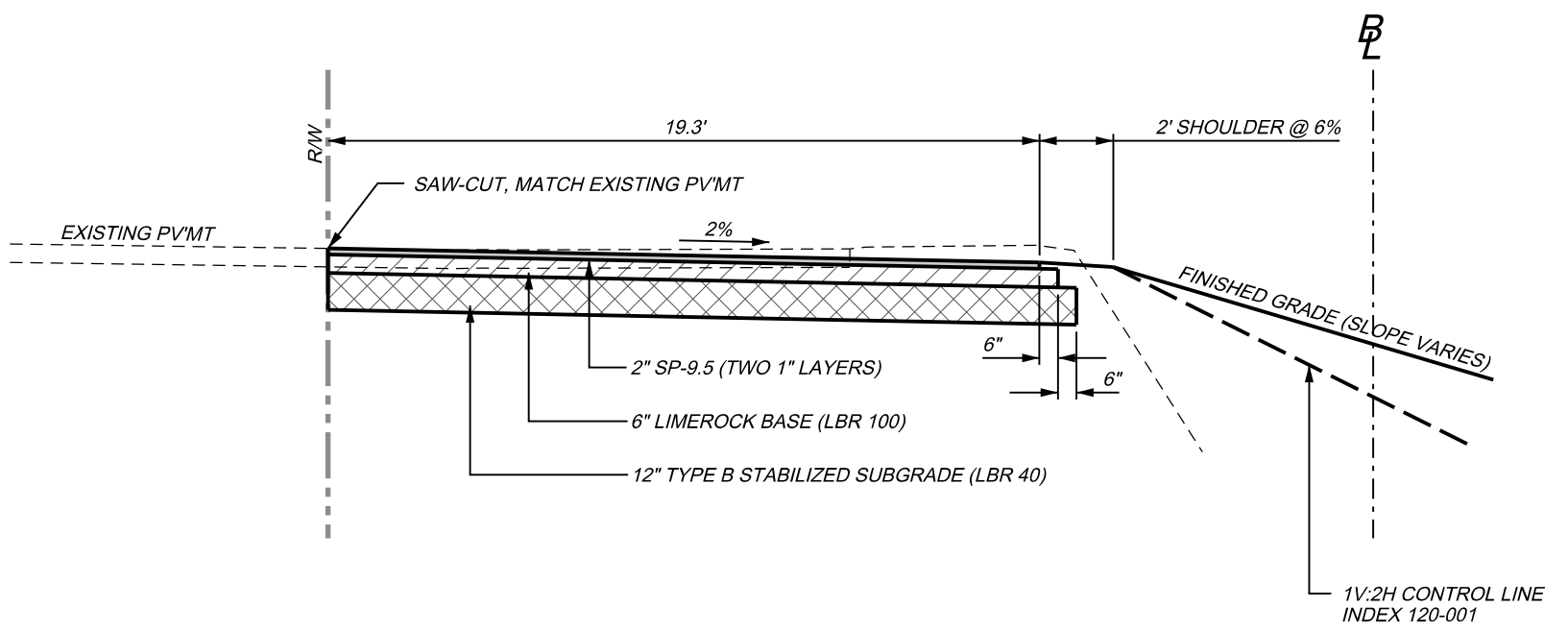


**TREE PROTECTION BARRICADE**  
N.T.S.

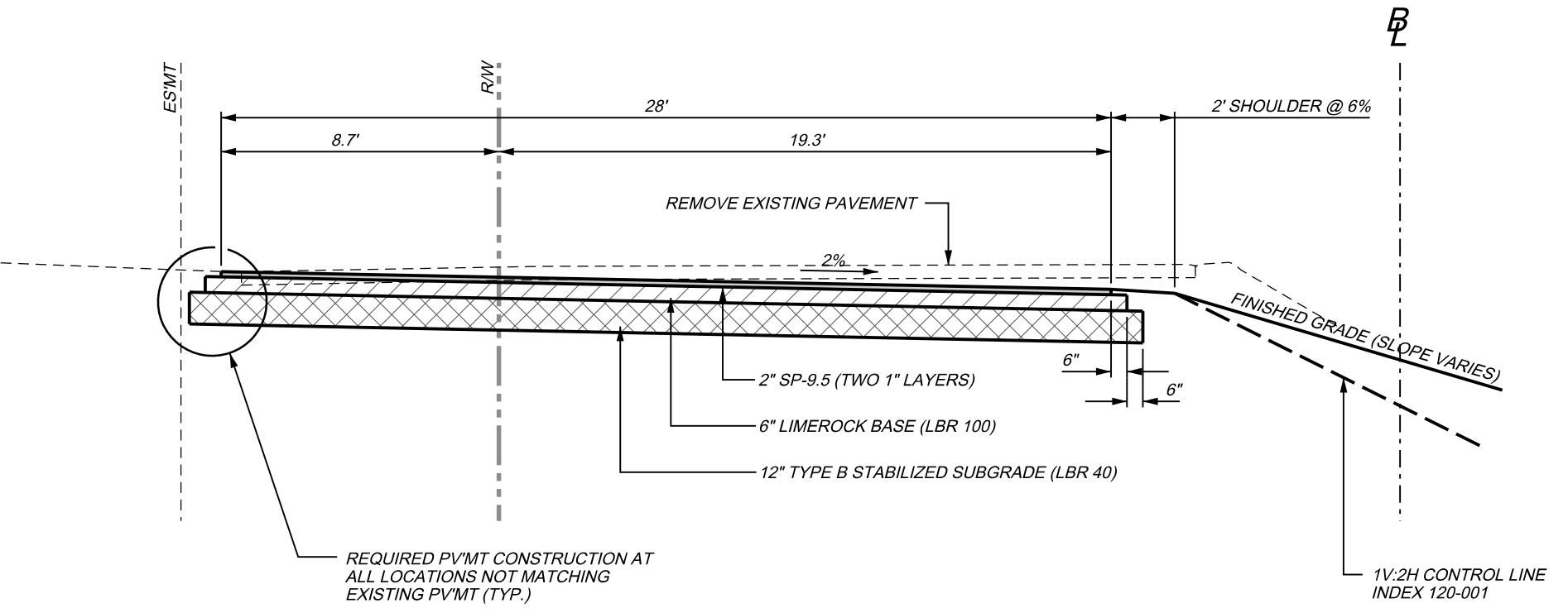
NOTE:  
TREE PROTECTION BARRICADES ARE TO PREVENT DISTURBANCE WITHIN THE CRITICAL PROTECTION ZONE (CPZ) OF EXISTING TREES THAT ARE TO REMAIN. THE CPZ IS THE AREA SURROUNDING A TREE WITHIN A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT. THE AREA WITHIN THE BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.



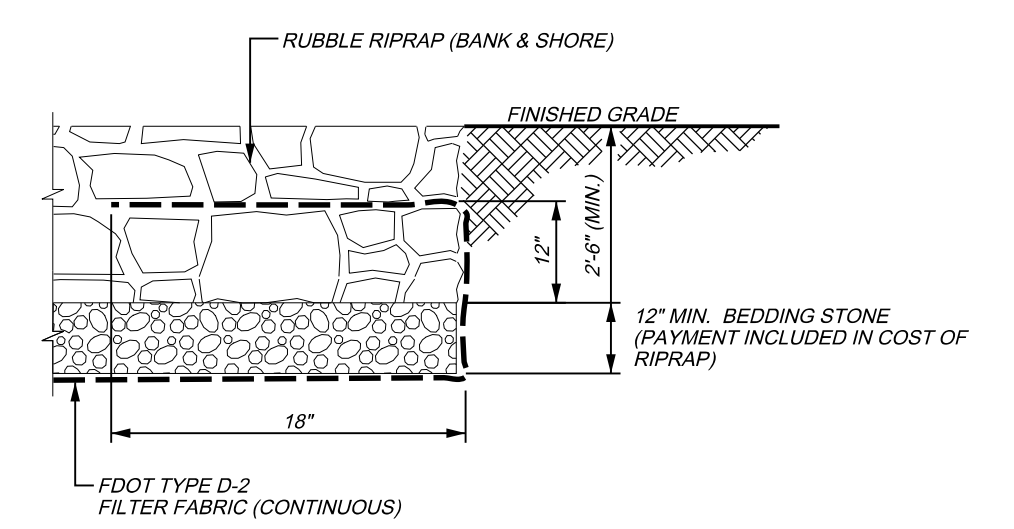
**TREE PROTECTION**



**DRIVEWAY PAVING DETAIL (STA. 13+19 TO 18+10)**  
N.T.S.

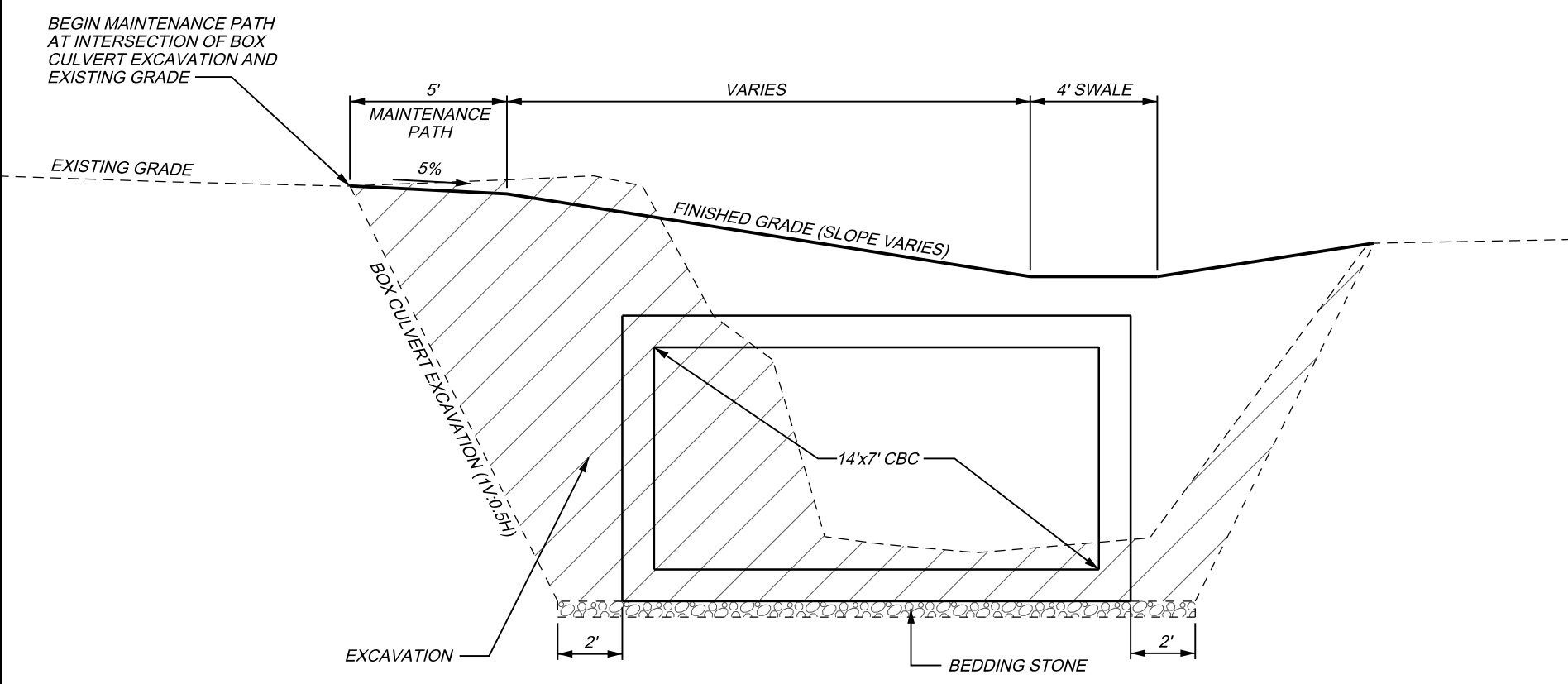


**DRIVEWAY PAVING DETAIL (STA. 11+01 TO 13+19)**  
N.T.S.



**RUBBLE RIPRAP DETAIL**  
N.T.S.

NOTE:  
MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 530 OF THE STANDARD SPECIFICATIONS



**MAINTENANCE PATH DETAIL (STA. 18+10 TO 26+22)**  
N.T.S.

ORIGINAL MAY 2019

REVISIONS:	DATE	BY
1		
2		
3		
4		
5		

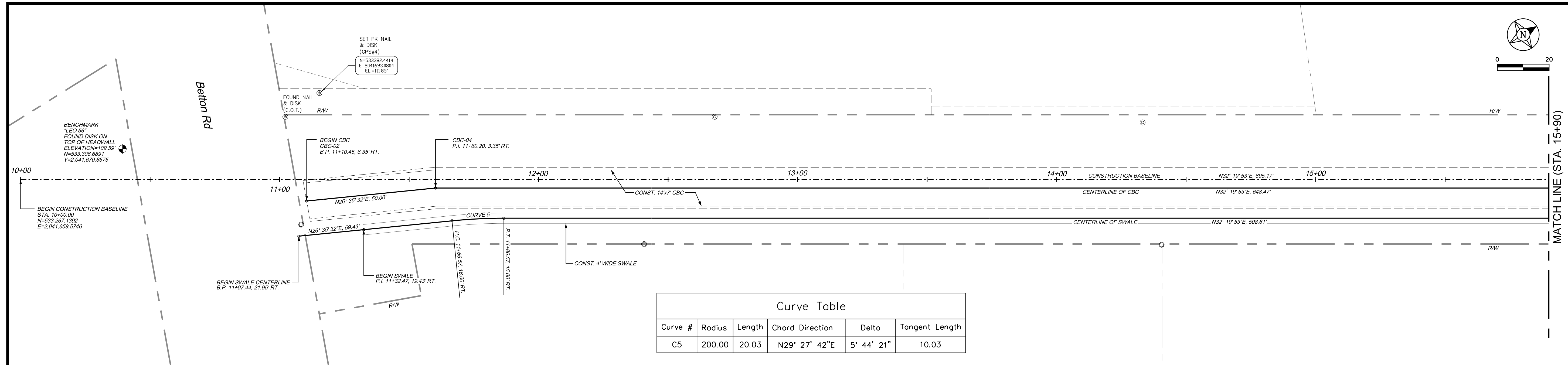
**TYPICAL SECTIONS & DETAILS**

**MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT**

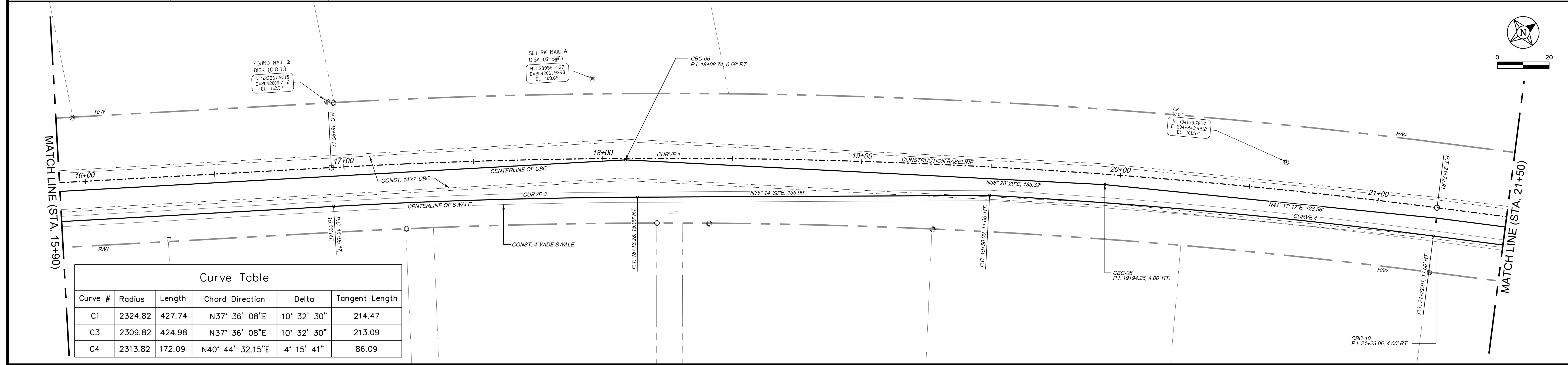
**SINGHOFEN & ASSOCIATES, INC.**  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Orpington Street, Suite 100  
Orlando, Florida 32817  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112

JOB NO. 2014-039.10  
DRAWN AFD/BJG  
DESIGNED RBG  
CHECKED RBG  
OC RBG

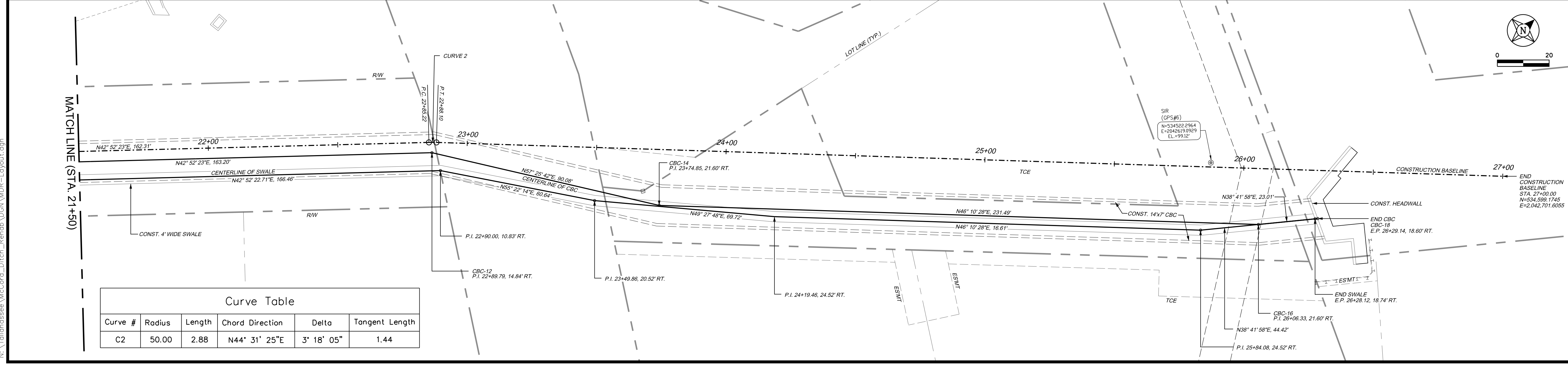
3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\_DGN\MDR-Layout.dgn



Curve #	Radius	Length	Chord Direction	Delta	Tangent Length
C5	200.00	20.03	N29° 27' 42"E	5° 44' 21"	10.03



Curve #	Radius	Length	Chord Direction	Delta	Tangent Length
C1	2324.82	427.74	N37° 36' 08"E	10° 32' 30"	214.47
C3	2309.82	424.98	N37° 36' 08"E	10° 32' 30"	213.09
C4	2313.82	172.09	N40° 44' 32.15"E	4° 15' 41"	86.09



Curve #	Radius	Length	Chord Direction	Delta	Tangent Length
C2	50.00	2.88	N44° 31' 25"E	3° 18' 05"	1.44

DATE  
SIGNATURE

ORIGINAL MAY 2019

REVISIONS:

1	
2	
3	
4	
5	

**PROJECT LAYOUT PLAN**

**MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT**

PROJECT

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Springtree Street, Suite 100  
 Orlando, FL 32817  
 P: (407) 679-3001  
 F: (407) 679-2691  
 DBPR No. 5112

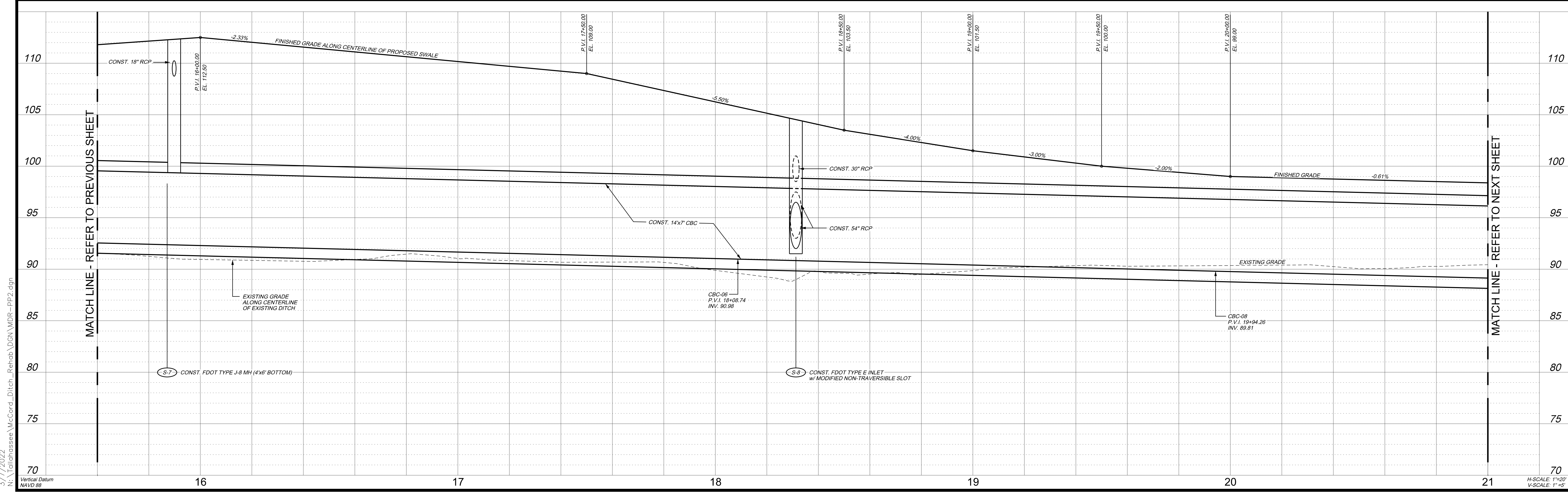
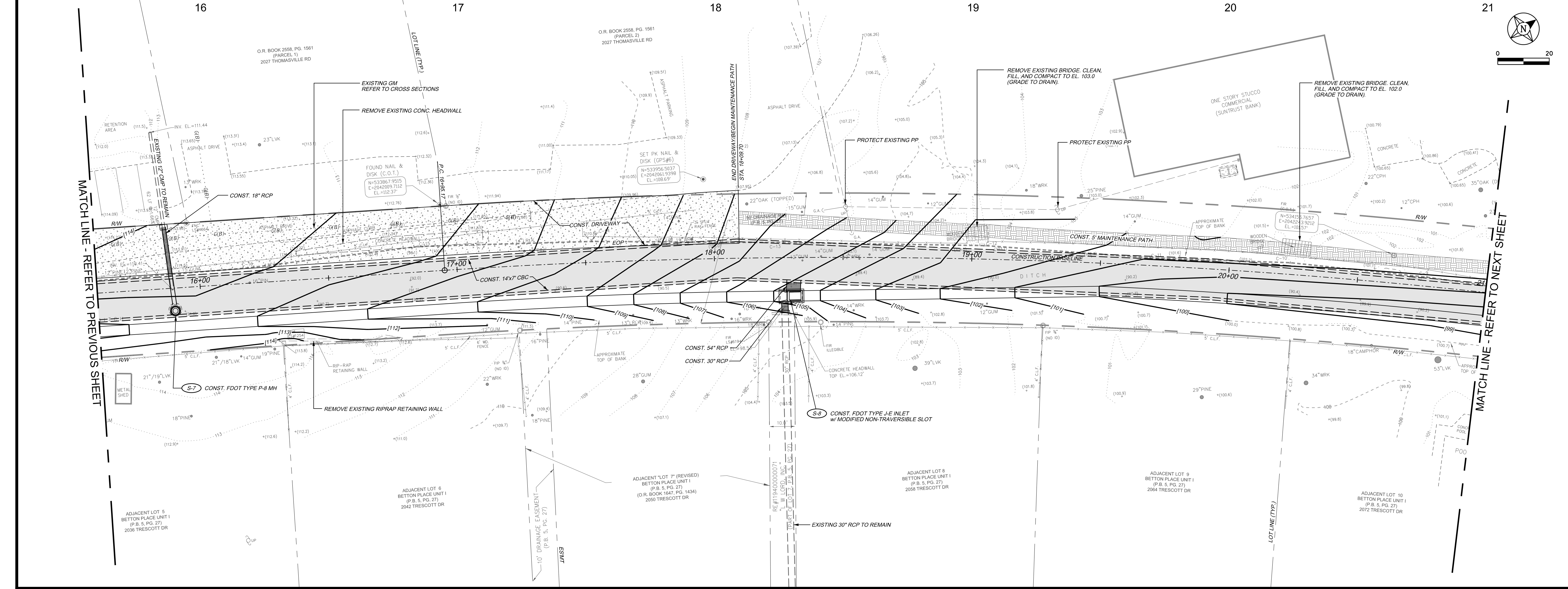
**SAI**

JOB NO. 2014-039.10  
 DRAWN AFD/RJG  
 DESIGNED RBG  
 CHECKED RBG  
 QC RBG

**SHEET 7**







3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-PP2.dgn  
 Vertical Datum  
 NAVD 88

ORIGINAL: MAY 2019  
 REVISIONS:  
 1 \_\_\_\_\_  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_  
 4 \_\_\_\_\_  
 5 \_\_\_\_\_

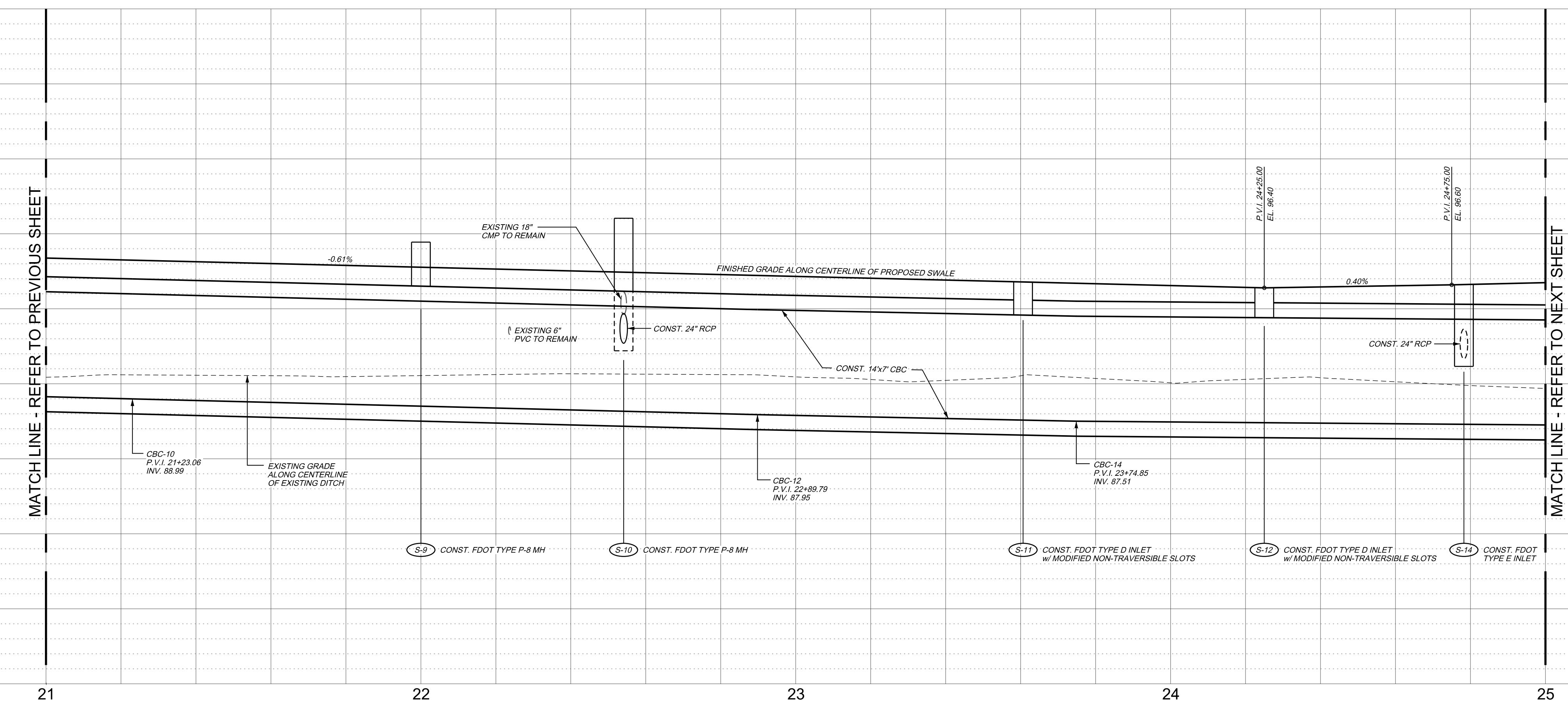
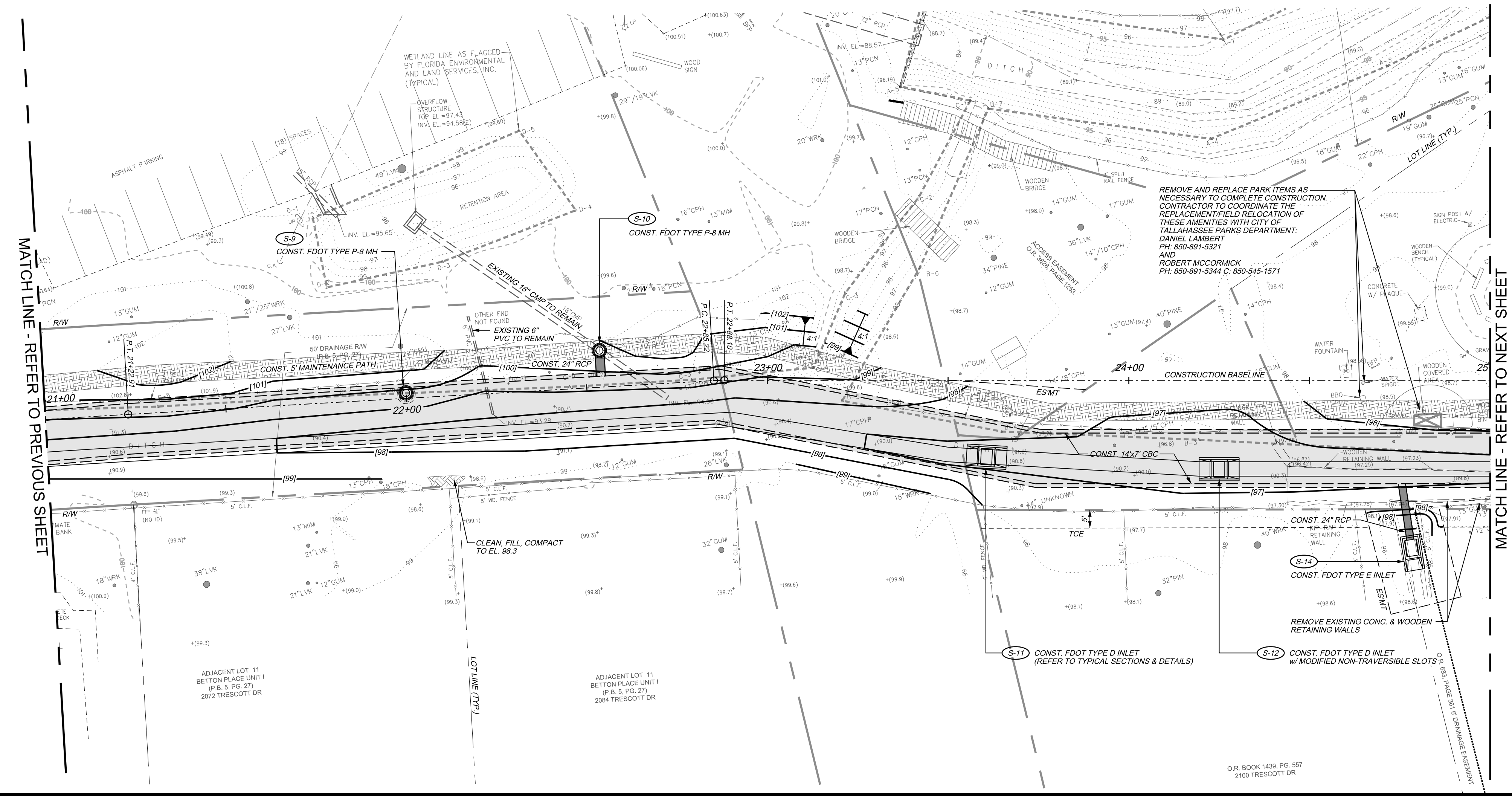
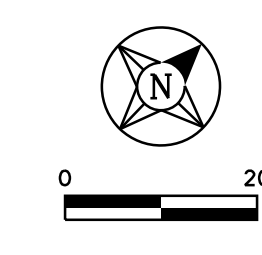
**PLAN & PROFILE**

**PROJECT**  
**MCCORD POND**  
**DRAINAGE DITCH**  
**IMPROVEMENTS**  
**PROJECT**

**SINGHOFFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Orion Springs Street, Suite 100  
 Orlando, FL 32817  
 Ph: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112

JOB NO. 2014-039.10  
 DRAWN: AFD/BJG  
 DESIGNED: RBG  
 CHECKED: RBG  
 OC: RBG

**SHEET 9**



ORIGINAL: MAY 2019

REVISIONS:	DATE	BY
1		
2		
3		
4		
5		

**PLAN & PROFILE**

**MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT**

**SINGHOFEN & ASSOCIATES, INC.**  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Orion Springs Street, Suite 100  
Orlando, FL 32817  
PH: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112

JOB NO. 2014-039.10  
DRAWN: AFD/BJG  
DESIGNED: RBG  
CHECKED: RBG  
OC: RBG

3/7/2022  
N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-PP3.dgn

Vertical Datum  
NAVD 88

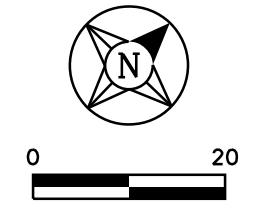
H-SCALE: 1"=20'  
V-SCALE: 1"=5'

25

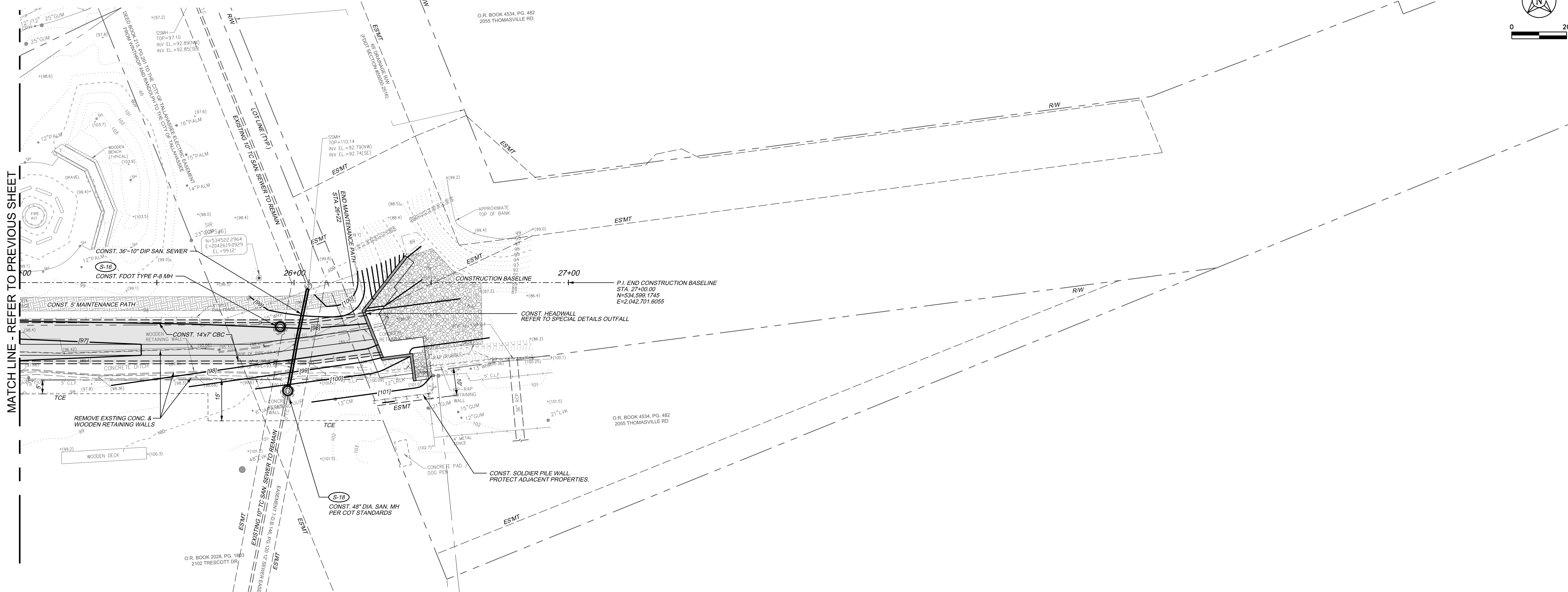
26

27

28



MATCH LINE - REFER TO PREVIOUS SHEET



ORIGINAL MAY 2019

REVISIONS:

1

2

3


4

5

PLAN & PROFILE

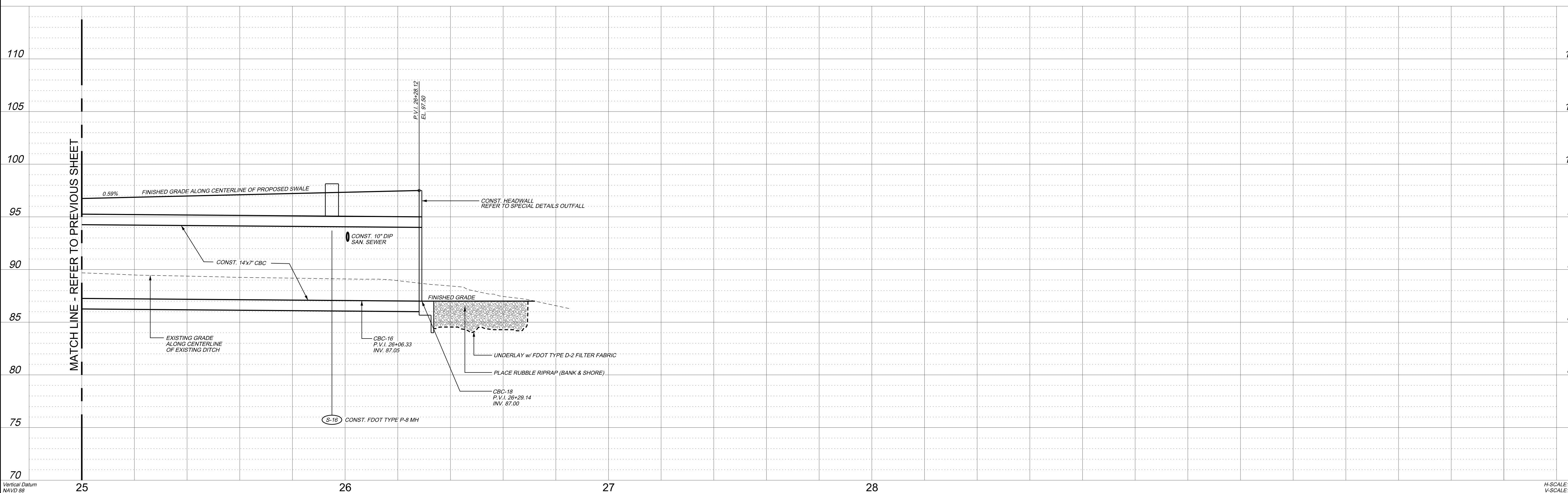
PROJECT  
MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Orionington Street, Suite 100  
 Orlando, FL 32817  
 Ph: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112



JOB NO. 2014-039.10  
 DRAWN AFD/BJG  
 DESIGNED RBG  
 CHECKED RBG  
 OC RBG

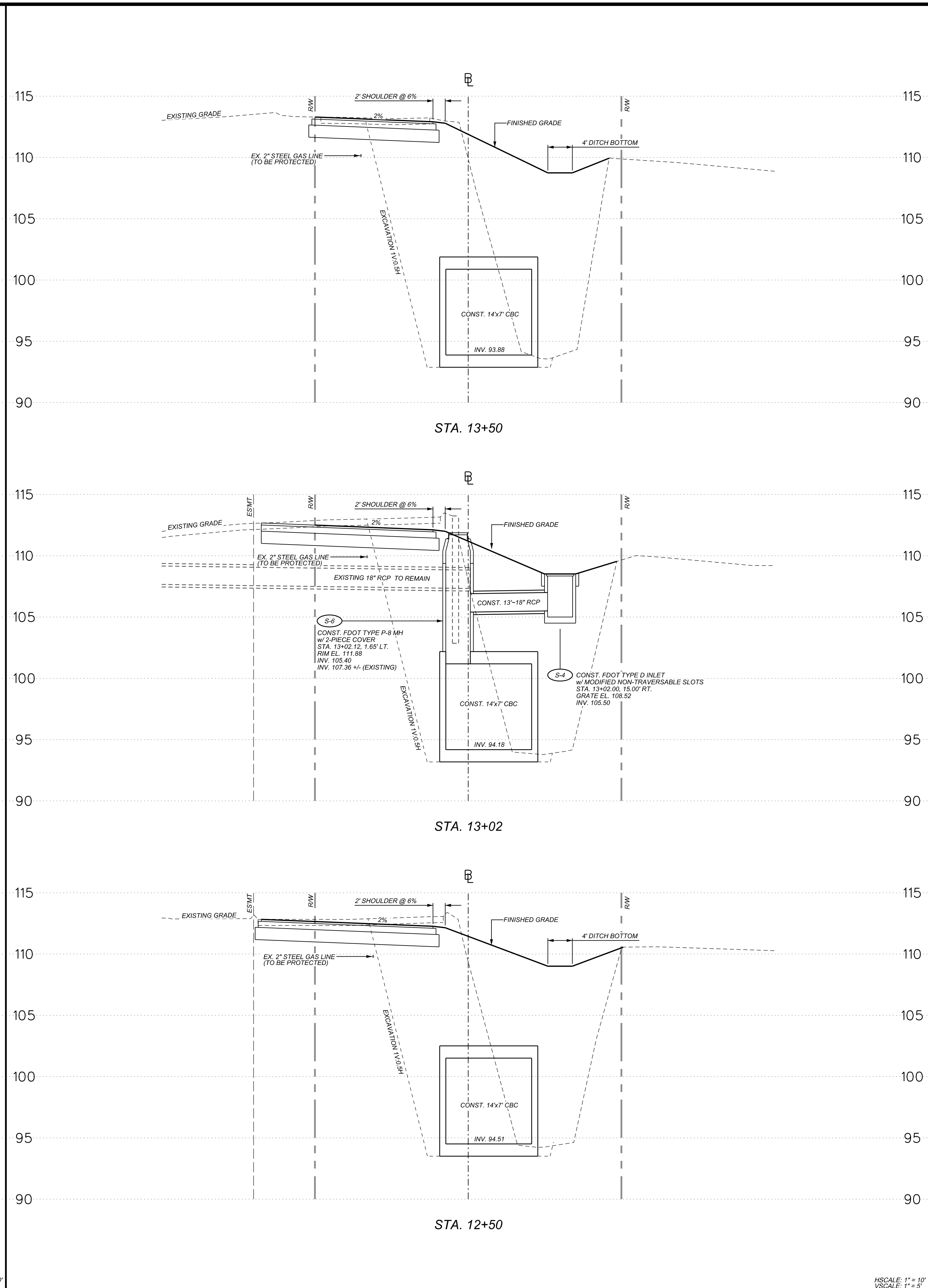
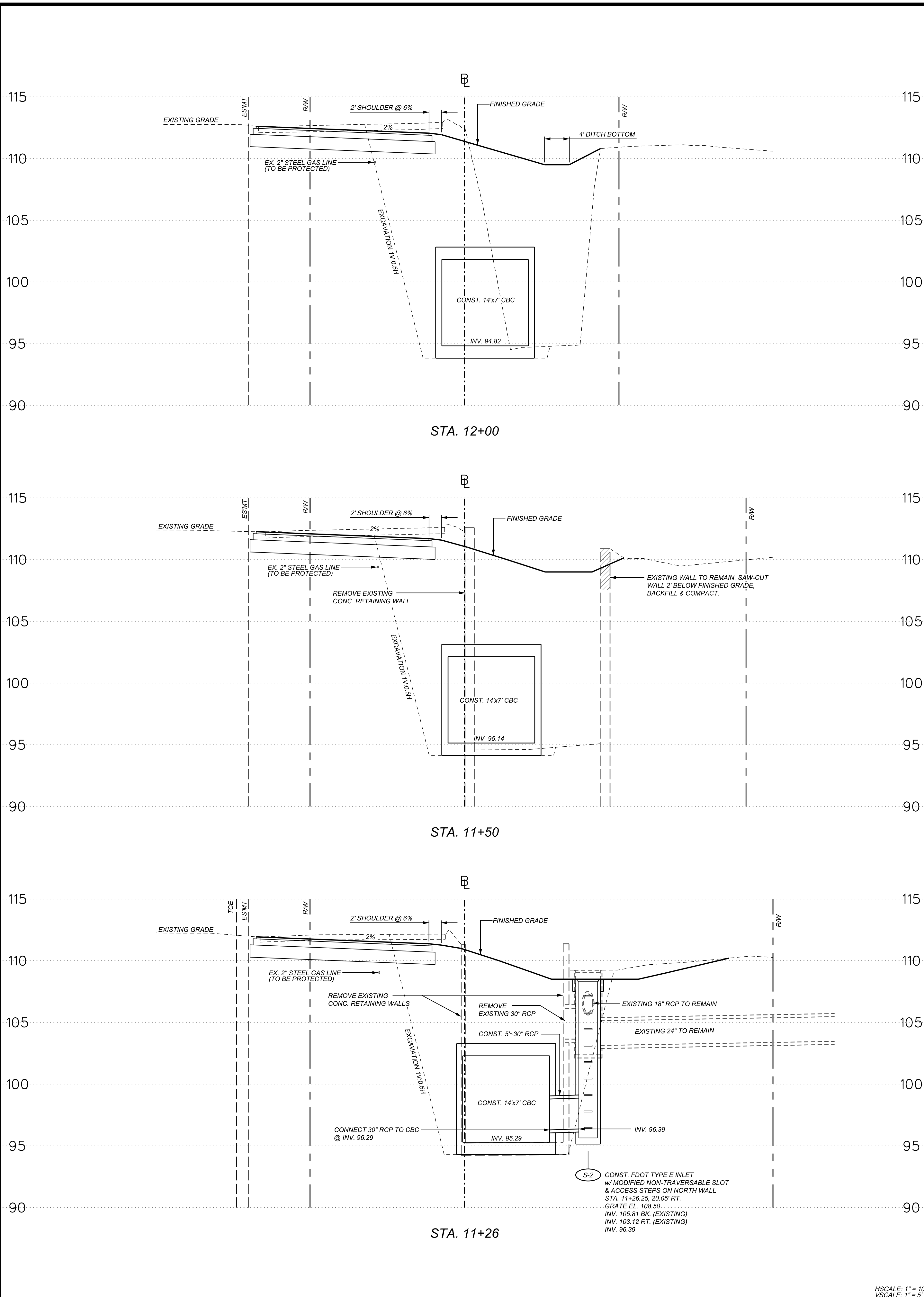
SHEET 11



MATCH LINE - REFER TO PREVIOUS SHEET

3/7/2022  
N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-PP4.dgn

3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-CrossSection\Sheets.dgn



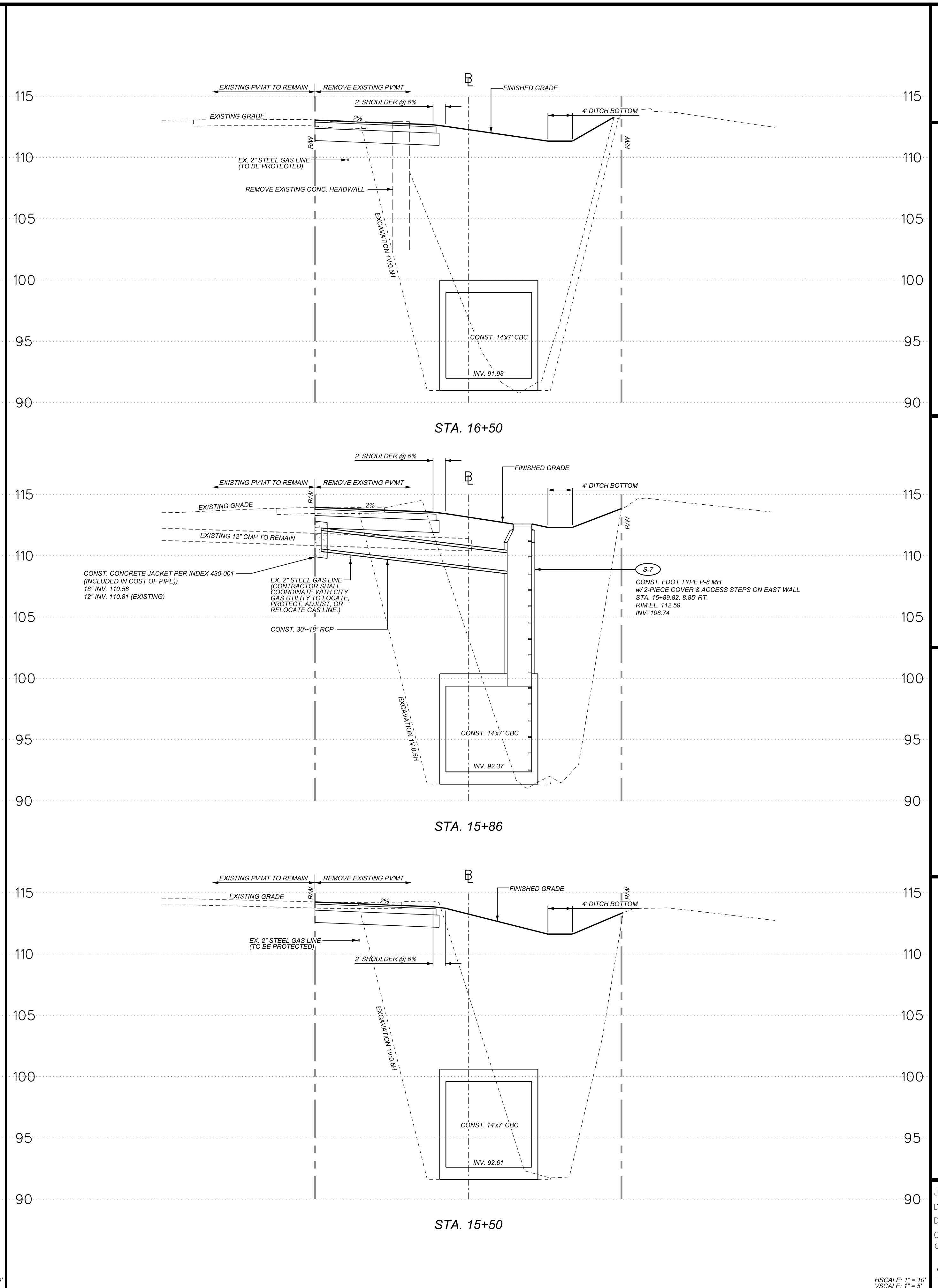
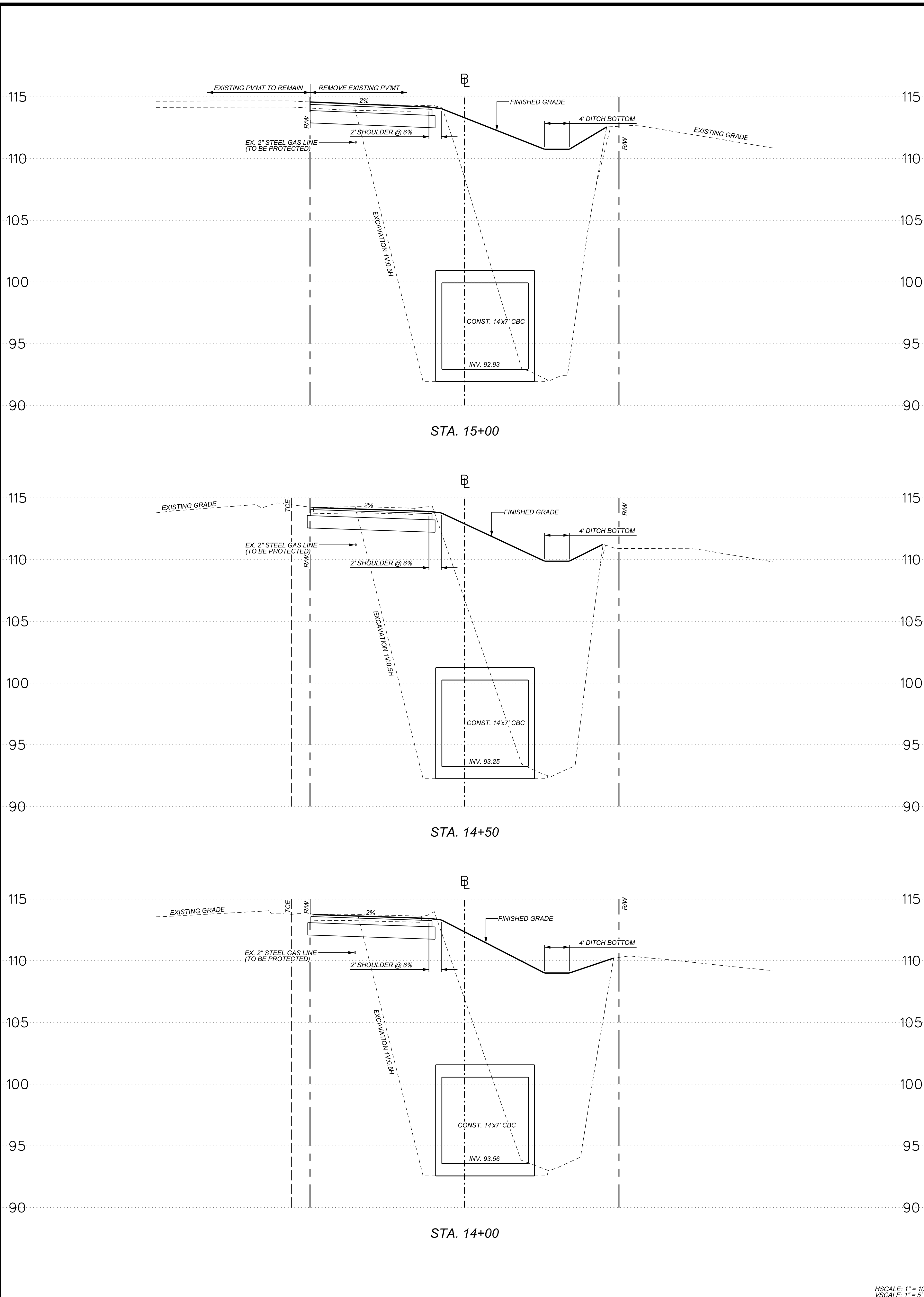
HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

PROJECT											
<b>MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT</b>											
<p><b>SINGHOFEN &amp; ASSOCIATES, INC.</b>          STORMWATER MANAGEMENT AND CIVIL ENGINEERING          11723 Orion Springs Street, Suite 100          Orlando, Florida 32817          Ph: (407) 679-3001          Fax: (407) 679-2691          DBPR No. 5112</p>											
<p>JOB NO. 2014-039.10          DRAWN AFD/BJG          DESIGNED RBG          CHECKED RBG          OC RBG</p>											
<b>SHEET 12</b>											
<p>ORIGINAL MAY 2019</p> <p>REVISIONS:</p> <table border="1"> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> </table>	1		2		3		4		5		<p>DATE</p> <p>SIGNATURE</p>
1											
2											
3											
4											
5											

**CROSS SECTIONS**

3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-CrossSectionSheets.dgn



HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

**CROSS SECTIONS**

**MCCORD POND  
 DRAINAGE DITCH  
 IMPROVEMENTS  
 PROJECT**

PROJECT

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Oriongrove Street, Suite 100  
 Orlando, FL 32817  
 Ph: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112

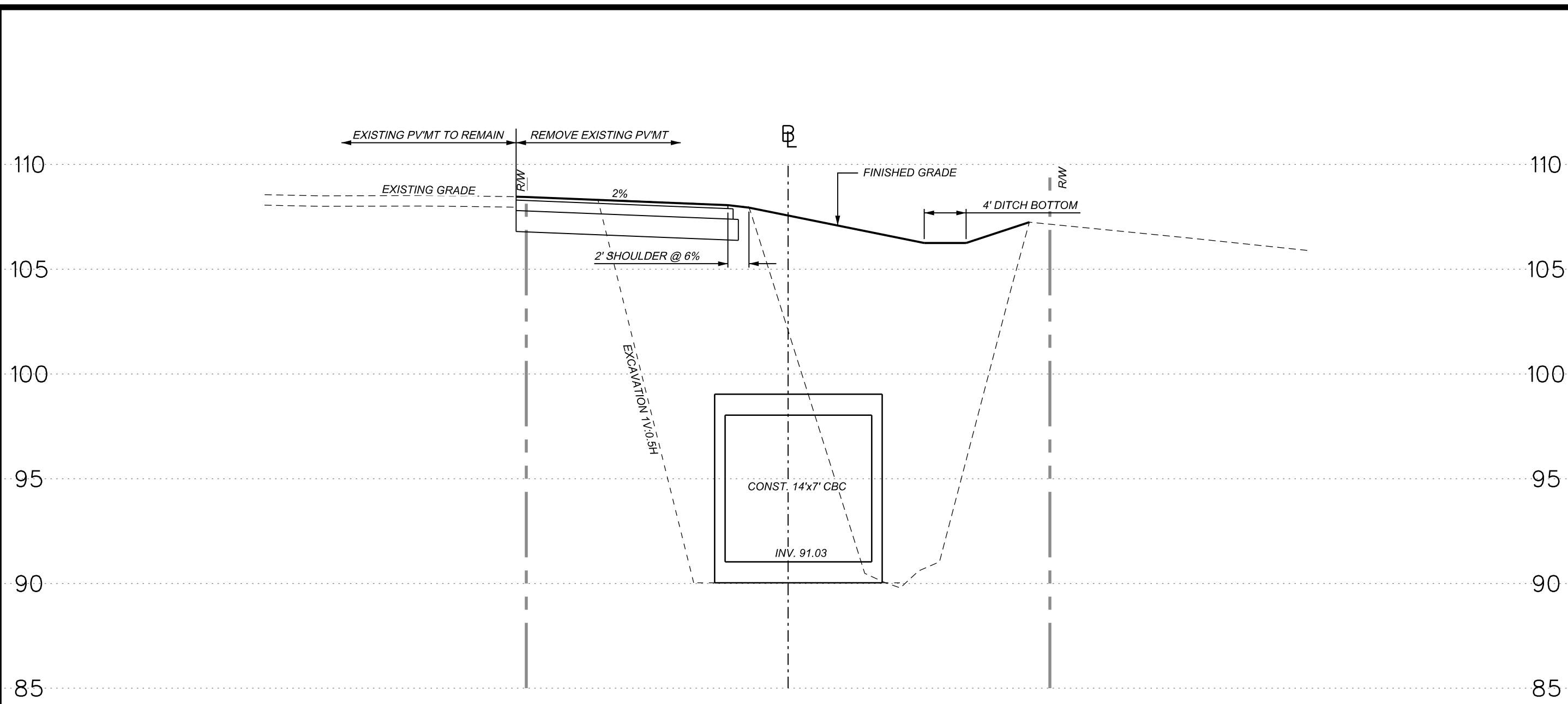
**SAI**

JOB NO. 2014-039.10  
 DRAWN AFD/BJG  
 DESIGNED RBG  
 CHECKED RBG  
 OC RBG

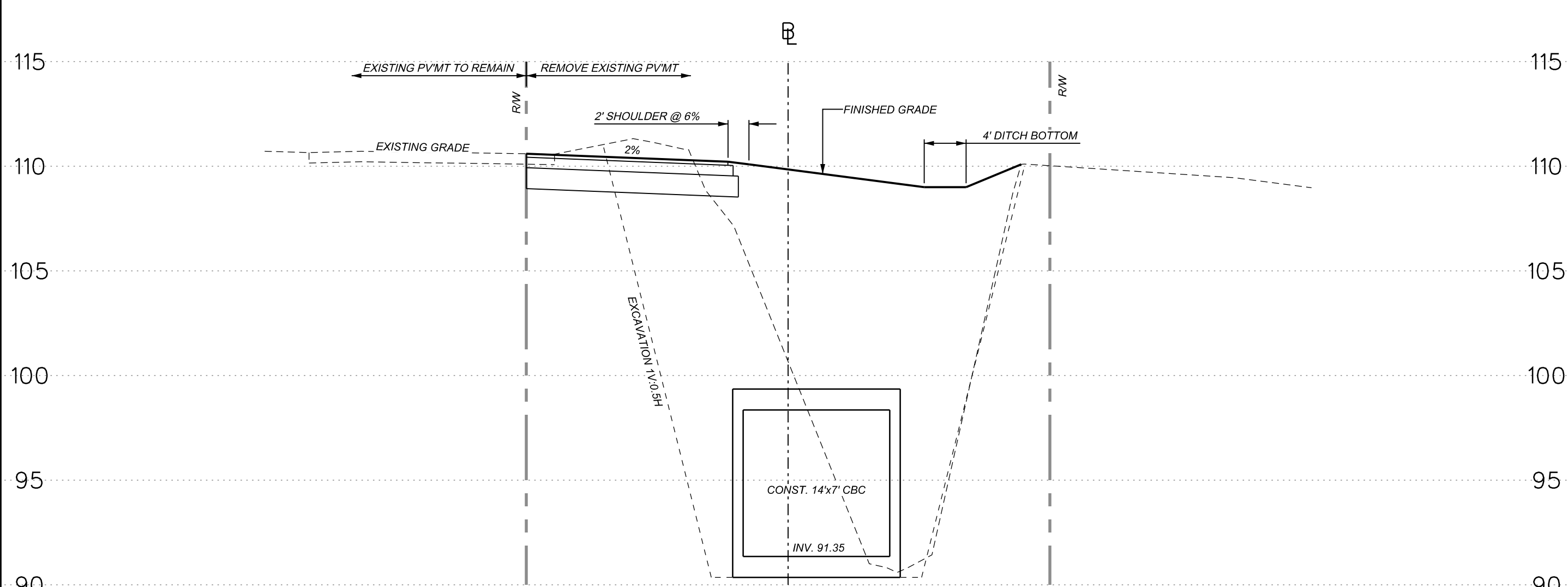
ORIGINAL MAY 2019  
 REVISIONS:  
 1  
 2  
 3  
 4  
 5

SHEET 13

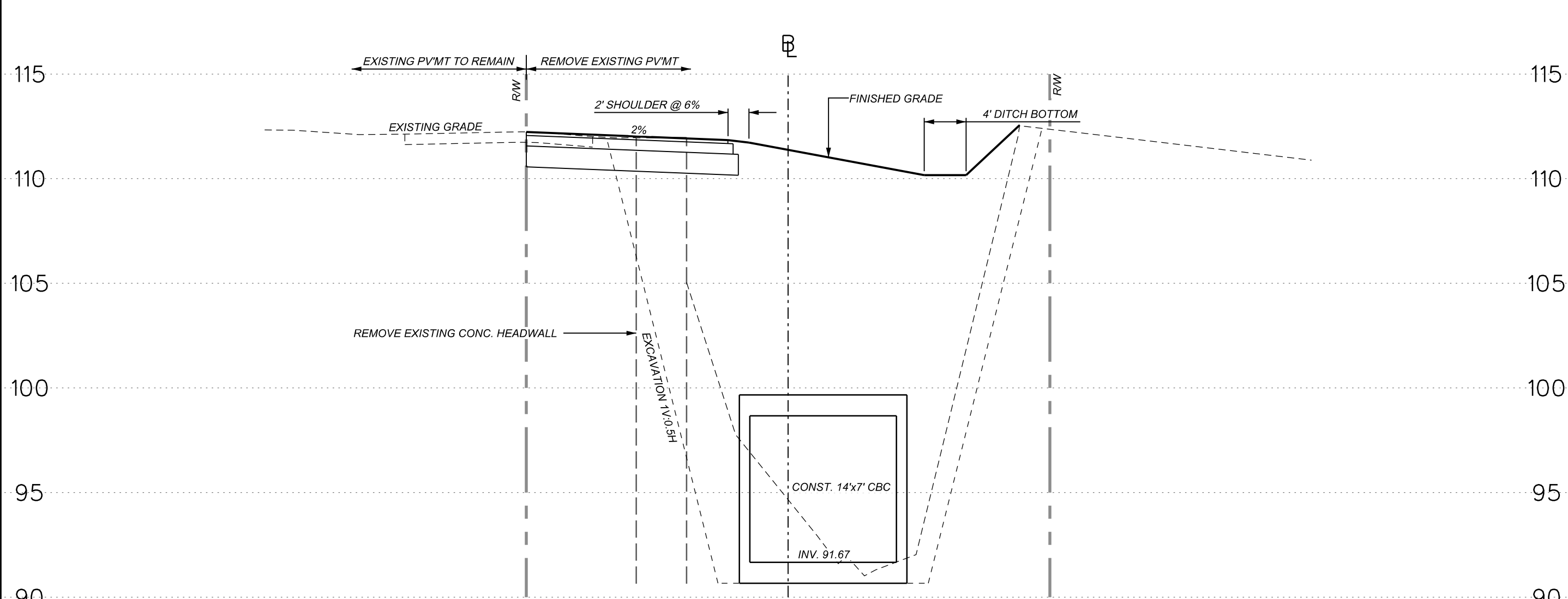
3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-CrossSectionSheets.dgn



STA. 18+00

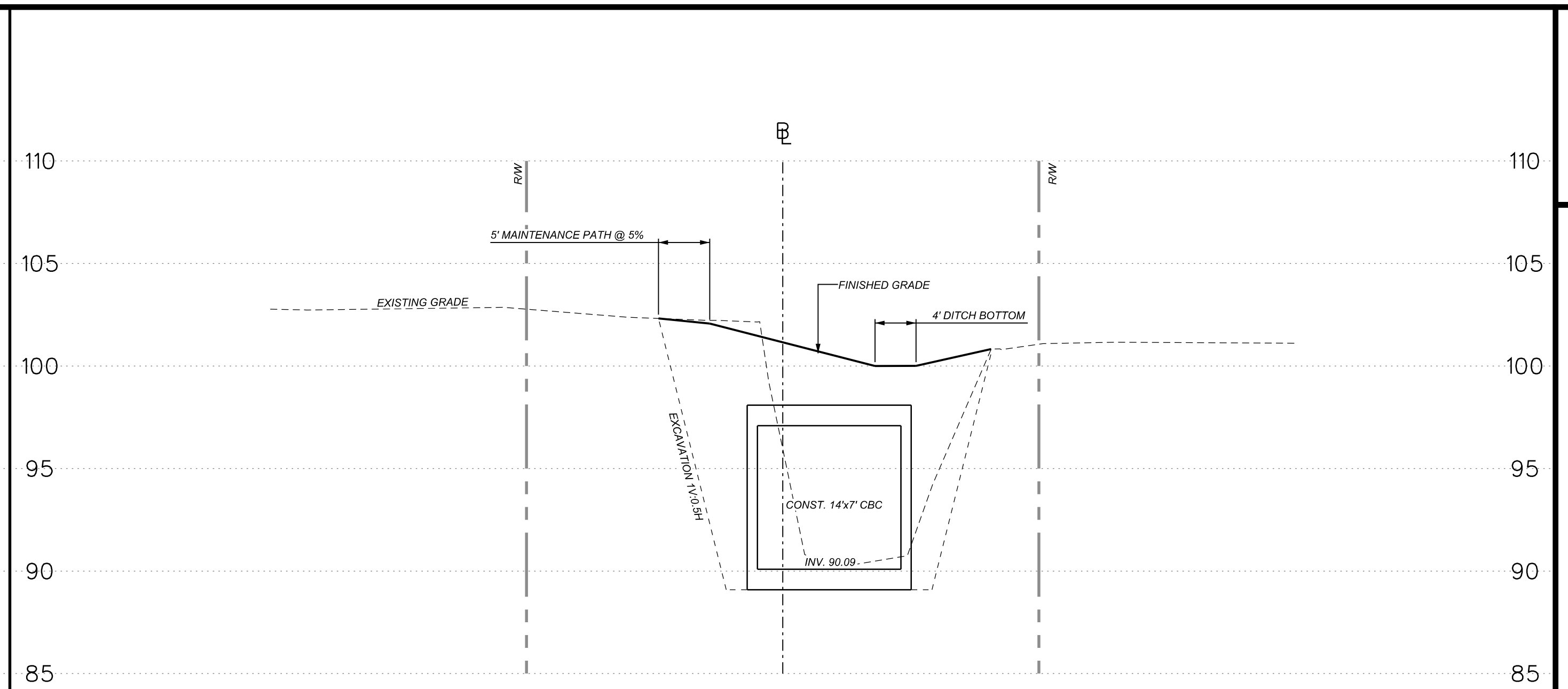


STA. 17+50

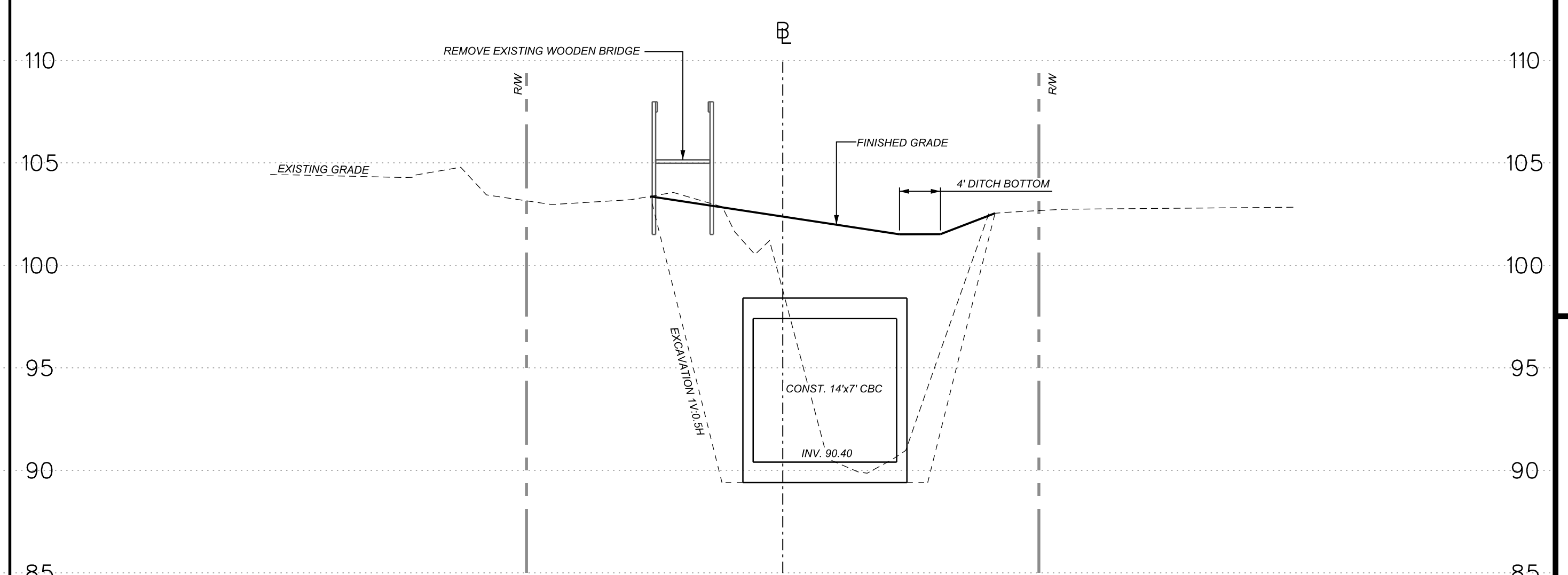


STA. 17+00

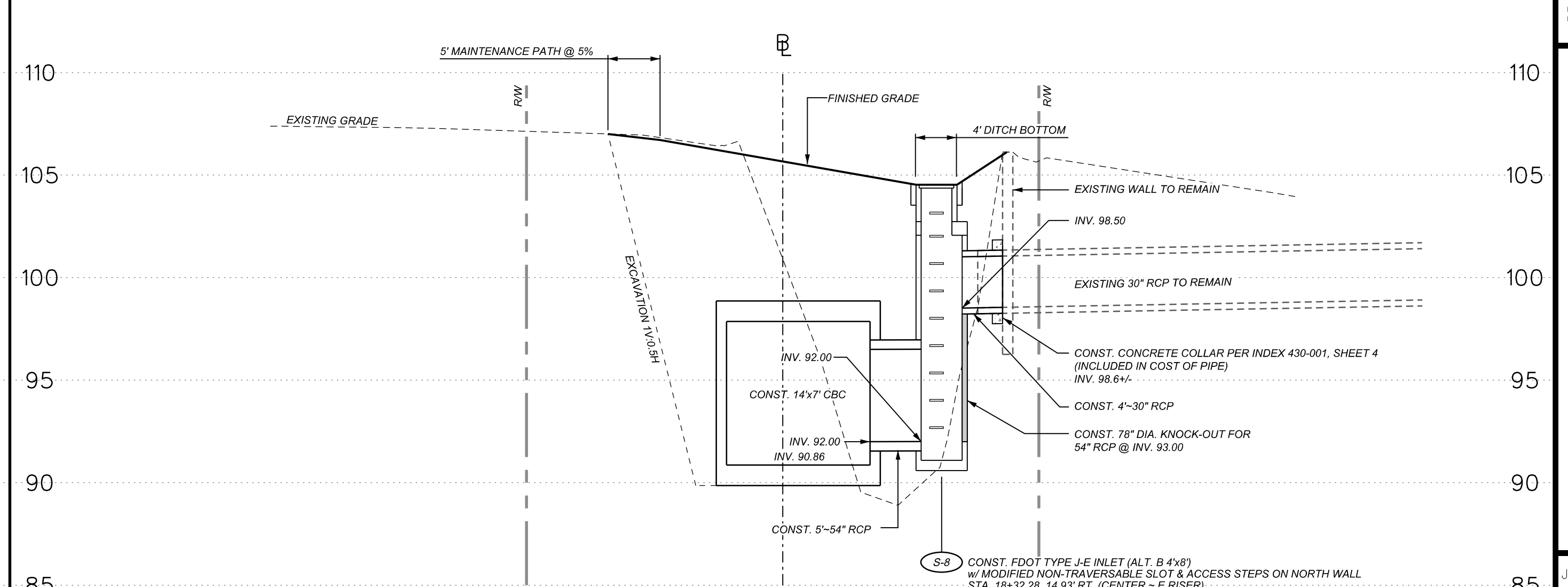
HSCALE: 1" = 10'  
 VSCALE: 1" = 5'



STA. 19+50



STA. 19+00



STA. 18+28

HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

Signature \_\_\_\_\_  
 Date \_\_\_\_\_

ORIGINAL	REVISIONS:
MAY 2019	1
	2
	3
	4
	5

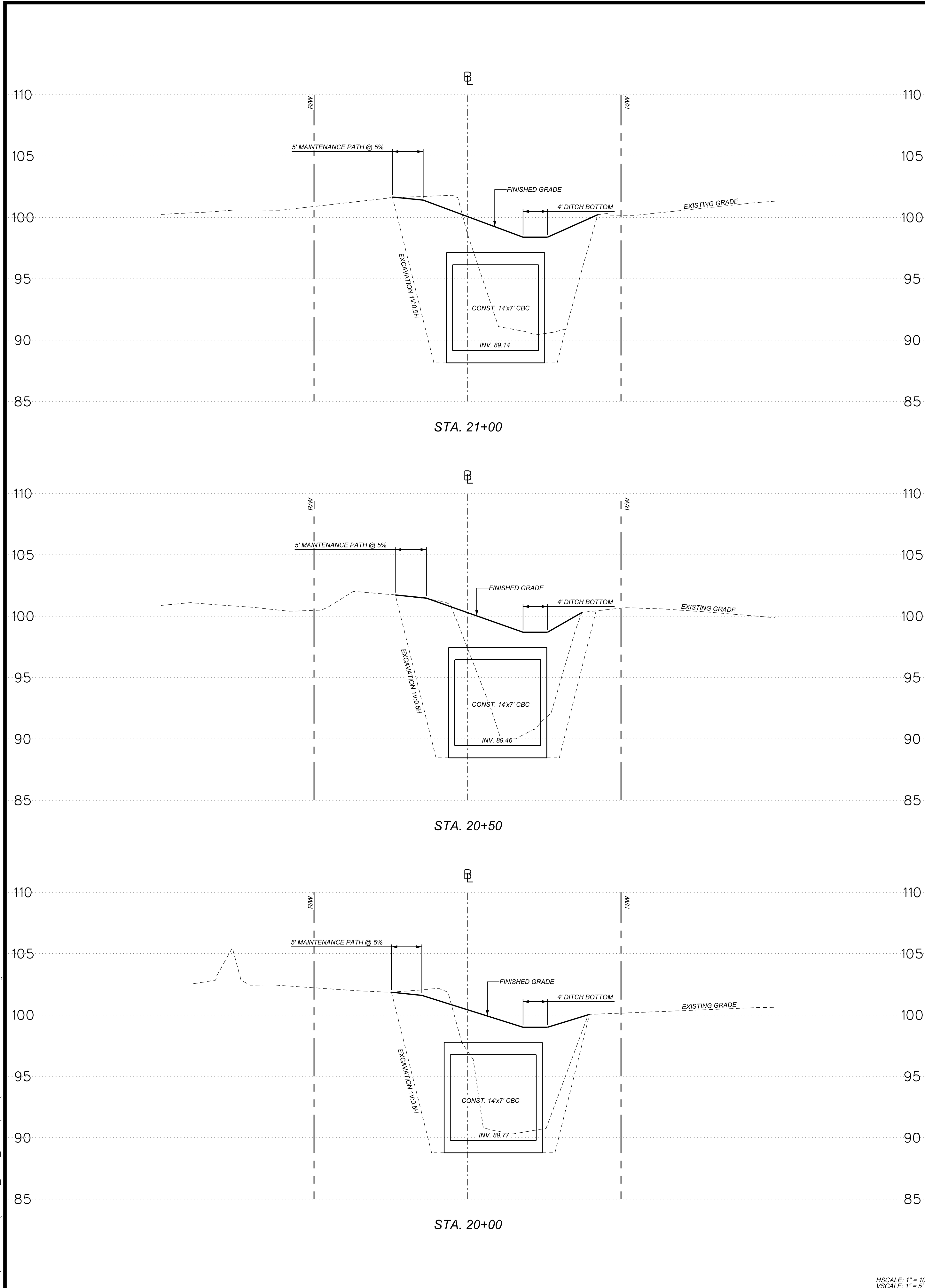
CROSS SECTIONS

PROJECT  
 MCCORD POND  
 DRAINAGE DITCH  
 IMPROVEMENTS  
 PROJECT

SINGHOFEN & ASSOCIATES, INC.  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Oriongrove Street, Suite 100  
 Orlando, Florida 32817  
 P: (407) 679-3001  
 F: (407) 679-2691  
 DBPR No. 5112

JOB NO. 2014-039.10  
 DRAWN AFD/BJG  
 DESIGNED RBG  
 CHECKED RBG  
 QC RBG

3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-CrossSectionSheets.dgn



HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

**CROSS SECTIONS**

**MCCORD POND  
 DRAINAGE DITCH  
 IMPROVEMENTS  
 PROJECT**

PROJECT

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Oriongrove Street, Suite 100  
 Orlando, FL 32817  
 Ph: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112

**SAI**

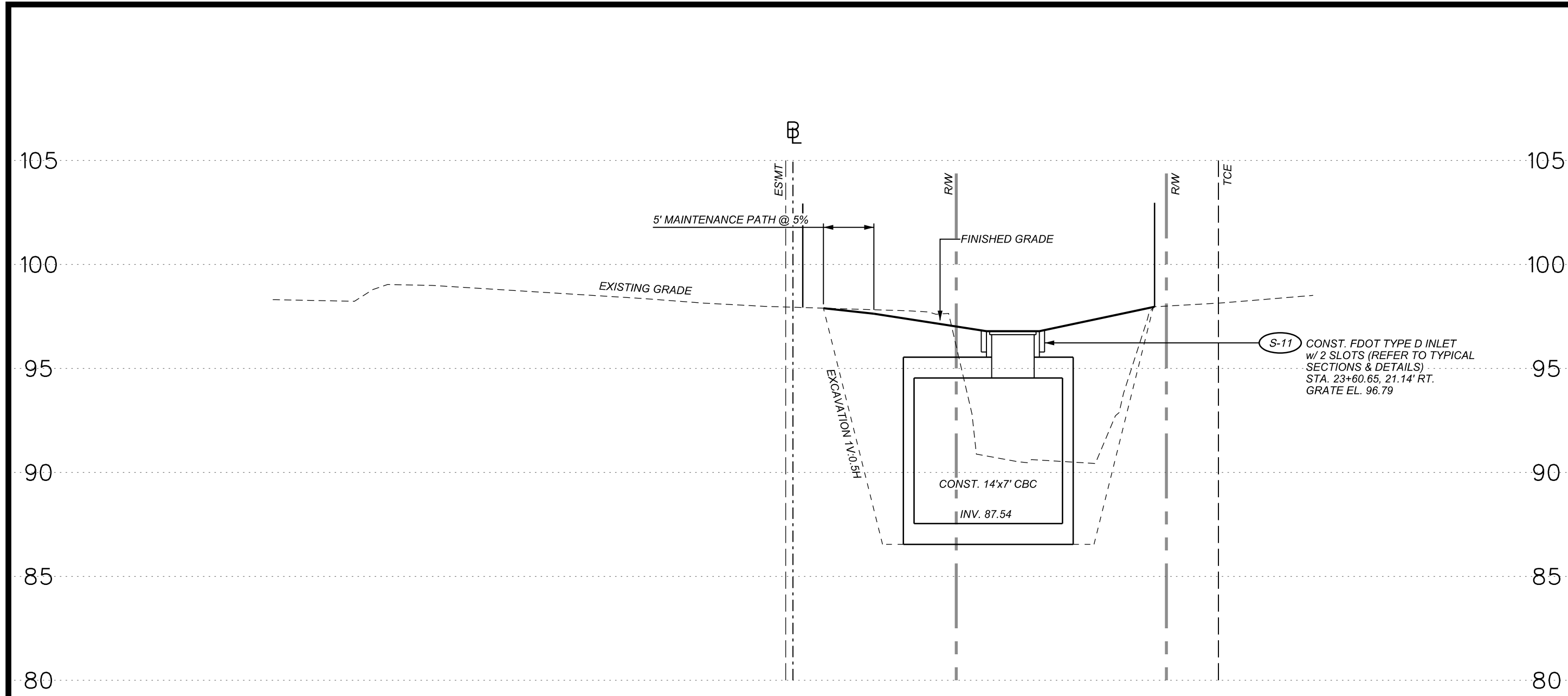
JOB NO. 2014-039.10  
 DRAWN AFD/BJG  
 DESIGNED RBG  
 CHECKED RBG  
 QC RBG

ORIGINAL MAY 2019  
 REVISIONS:  
 1  
 2  
 3  
 4  
 5

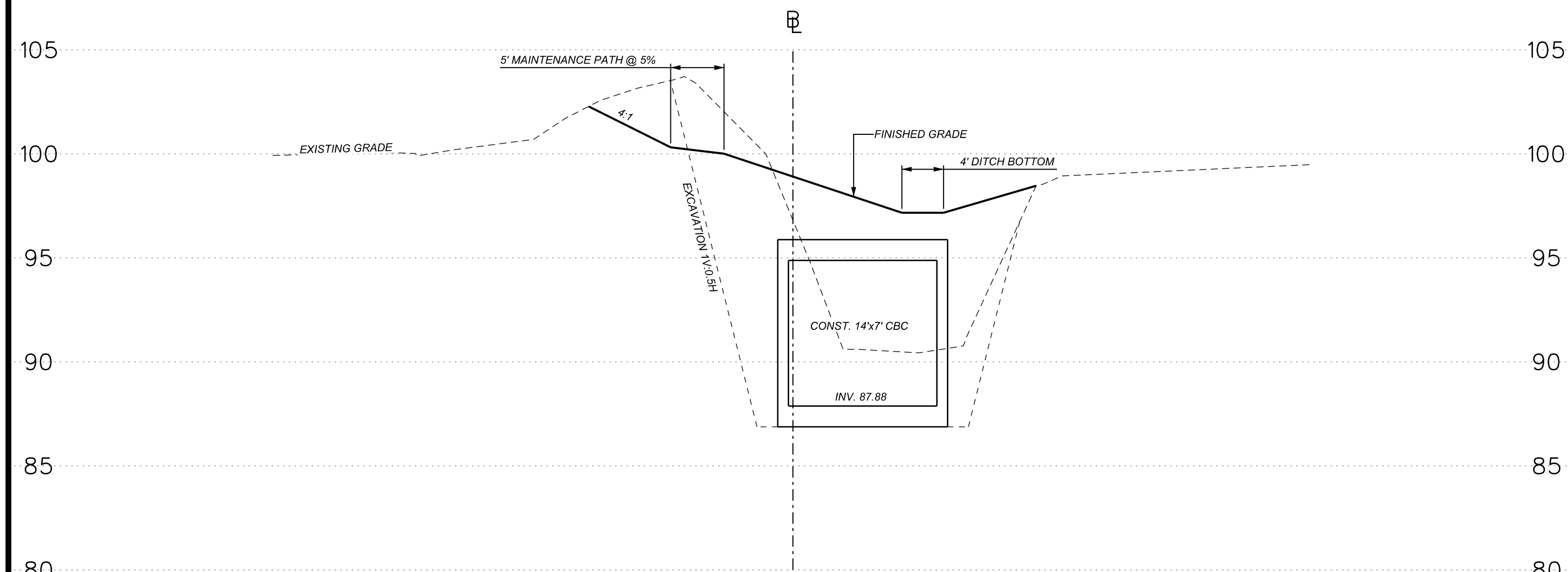
SIGNATURE \_\_\_\_\_  
 DATE \_\_\_\_\_

**SHEET 15**

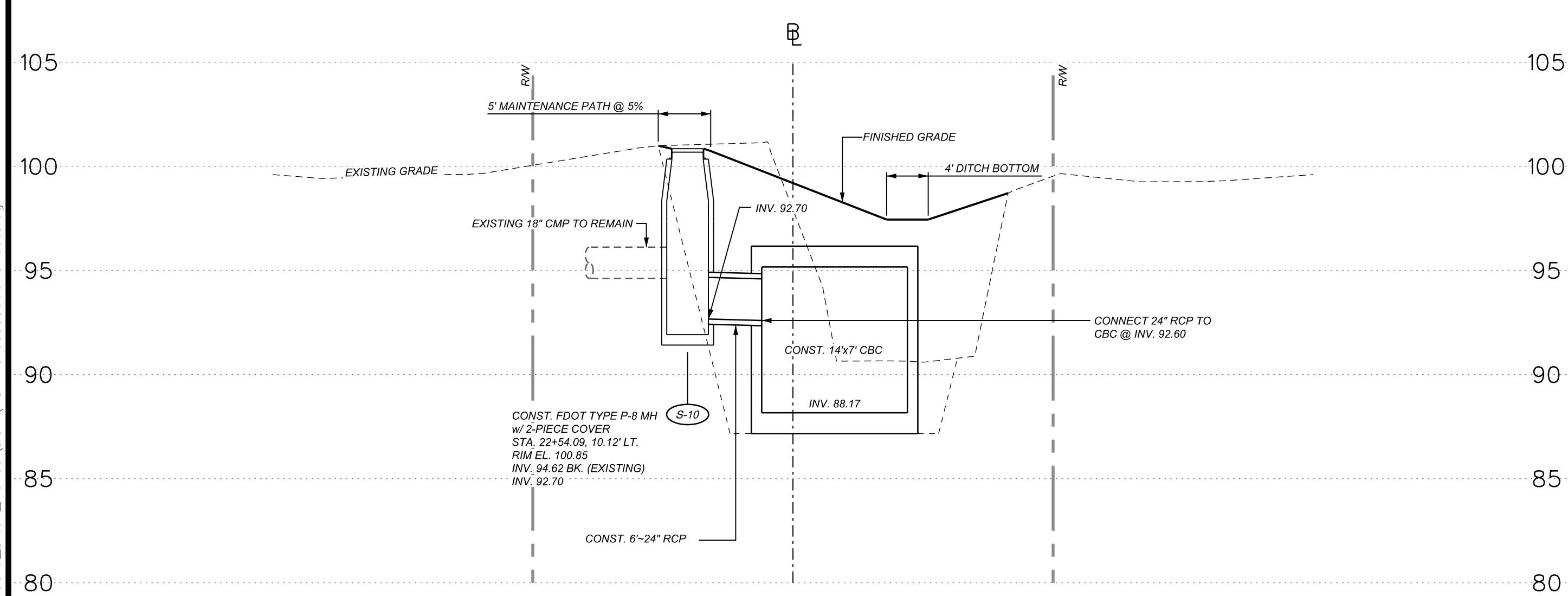
3/7/2022  
N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-CrossSectionSheets.dgn



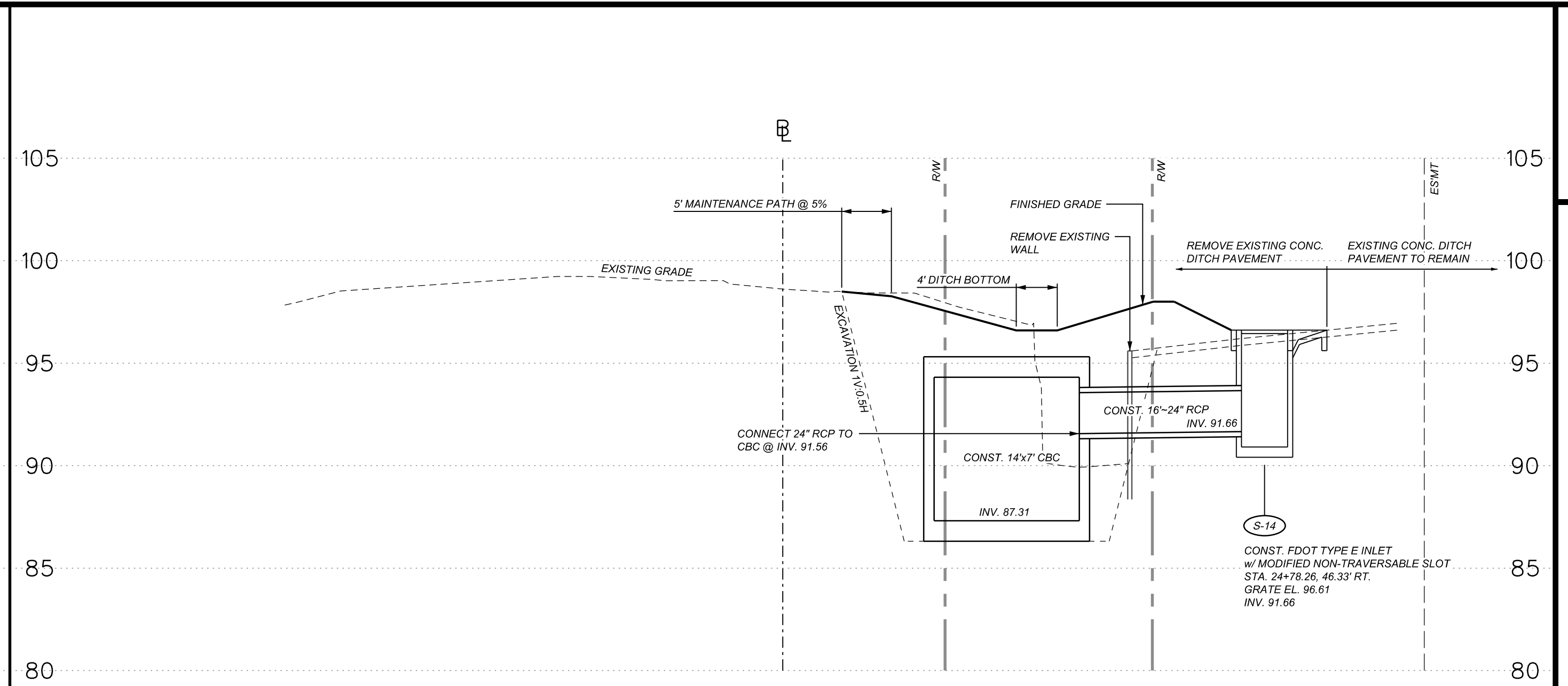
STA. 23+61



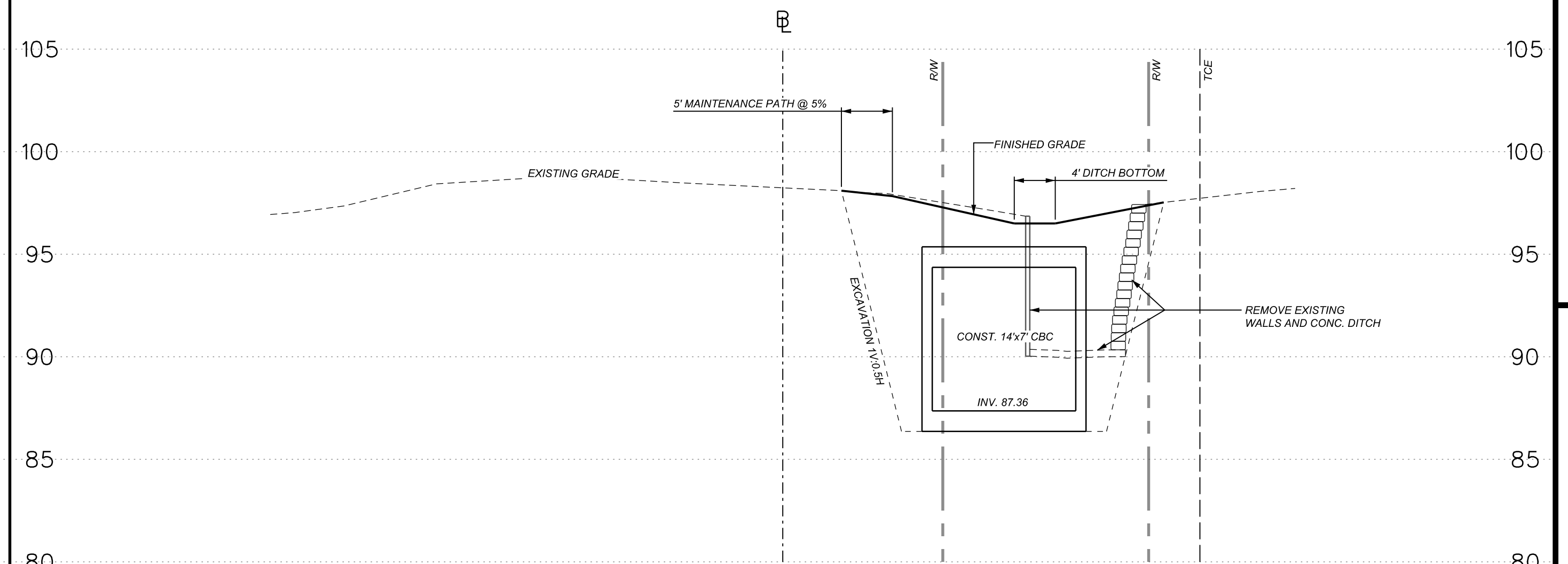
STA. 23+00



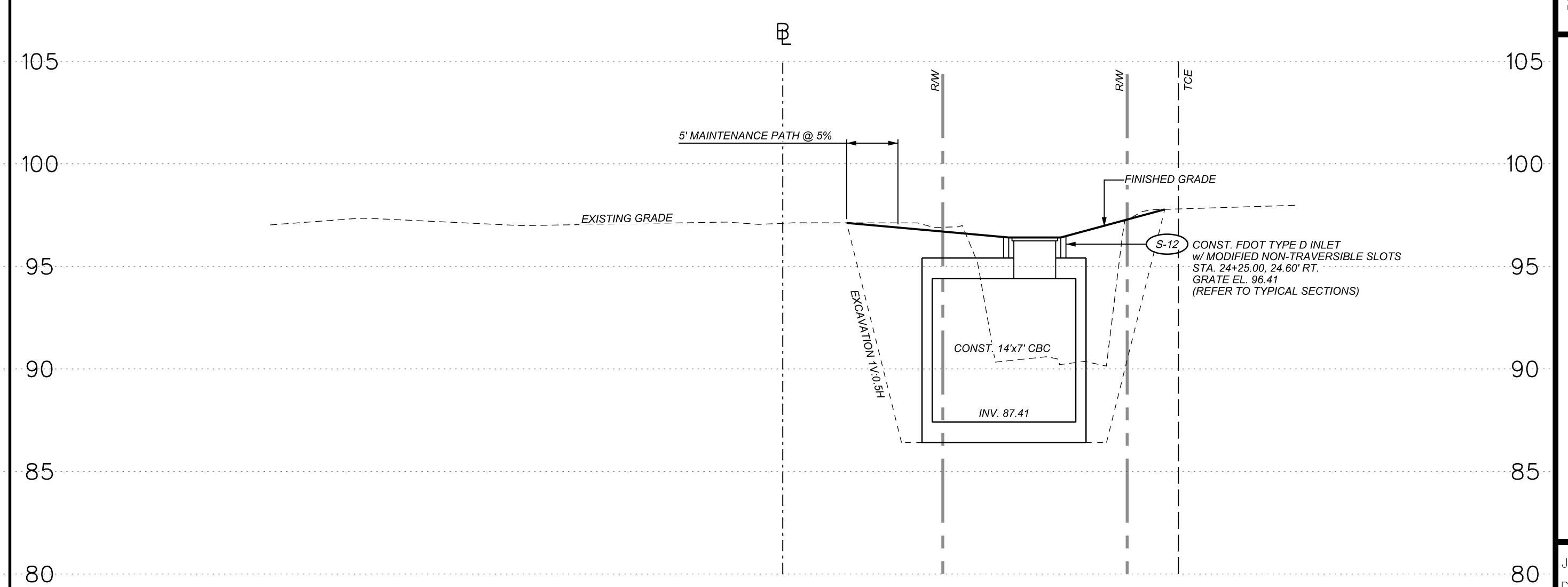
STA. 22+54



STA. 24+78



STA. 24+50



STA. 24+25


HSCALE: 1" = 10'  
VSCALE: 1" = 5'

HSCALE: 1" = 10'  
VSCALE: 1" = 5'

ORIGINAL	MAY 2019
REVISIONS:	
1	
2	
3	
4	
5	

PROJECT  
**MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT**

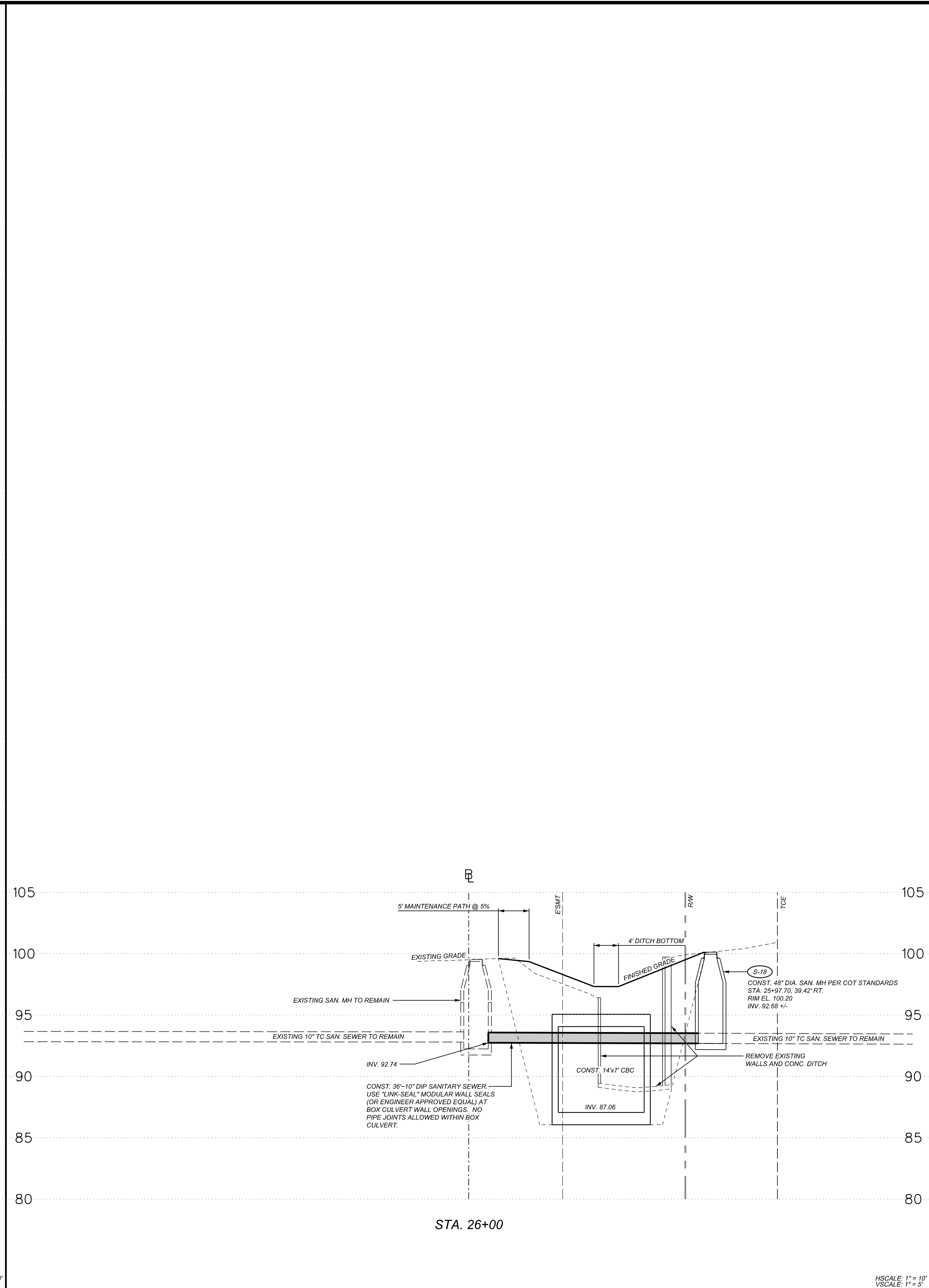
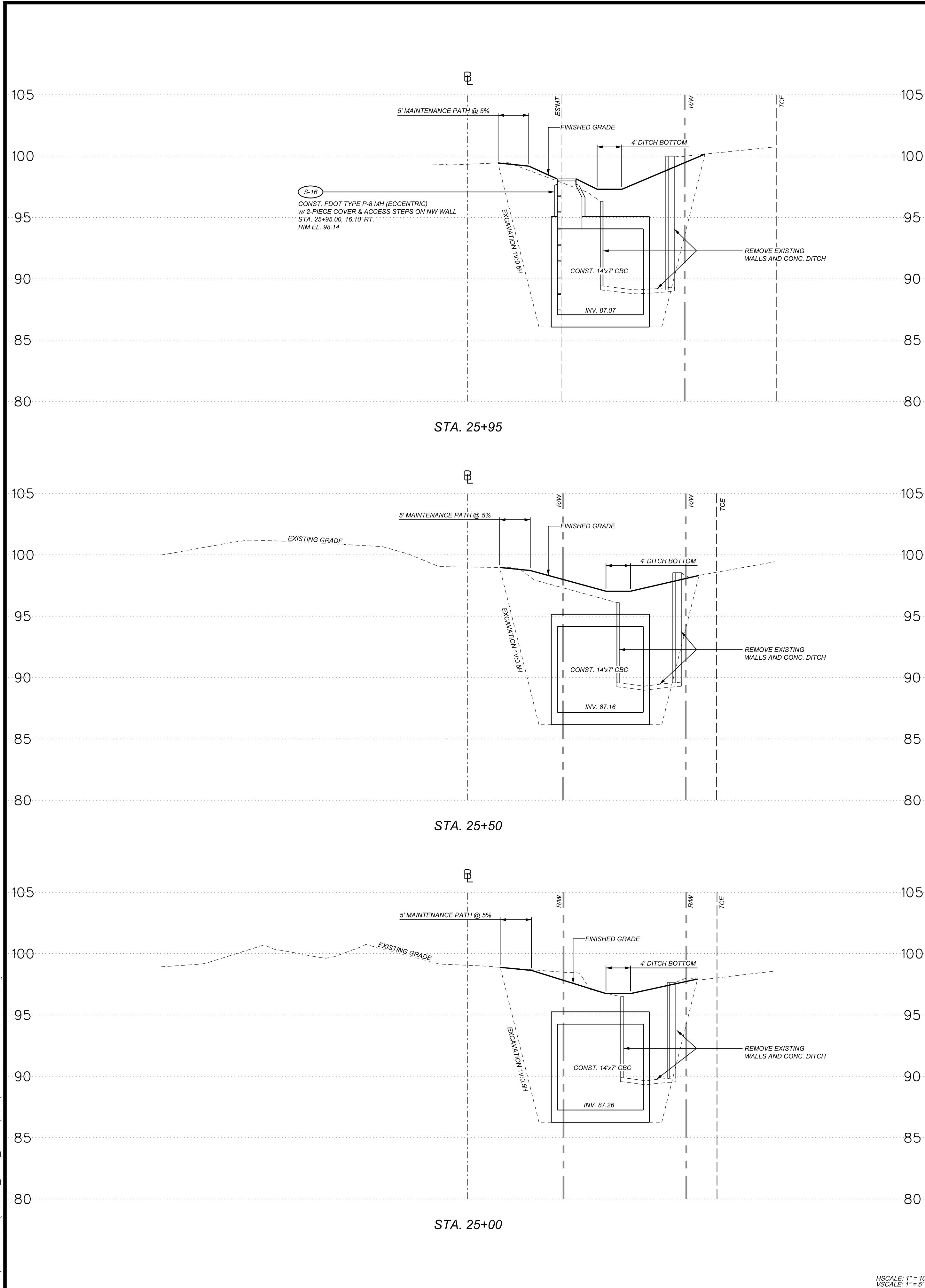
**SINGHOFEN & ASSOCIATES, INC.**  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Oriongrove Street, Suite 100  
Orlando, FL 32817  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112



JOB NO.	2014-039.10
DRAWN	AFD/BJG
DESIGNED	RBG
CHECKED	RBG
QC	RBG



3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-CrossSectionSheets.dgn



HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

HSCALE: 1" = 10'  
 VSCALE: 1" = 5'

**CROSS SECTIONS**

**MCCORD POND  
 DRAINAGE DITCH  
 IMPROVEMENTS  
 PROJECT**

PROJECT

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Oriongrove Street, Suite 100  
 Orlando, FL 32817  
 P: (407) 679-3001  
 F: (407) 679-2691  
 DBPR No. 5112

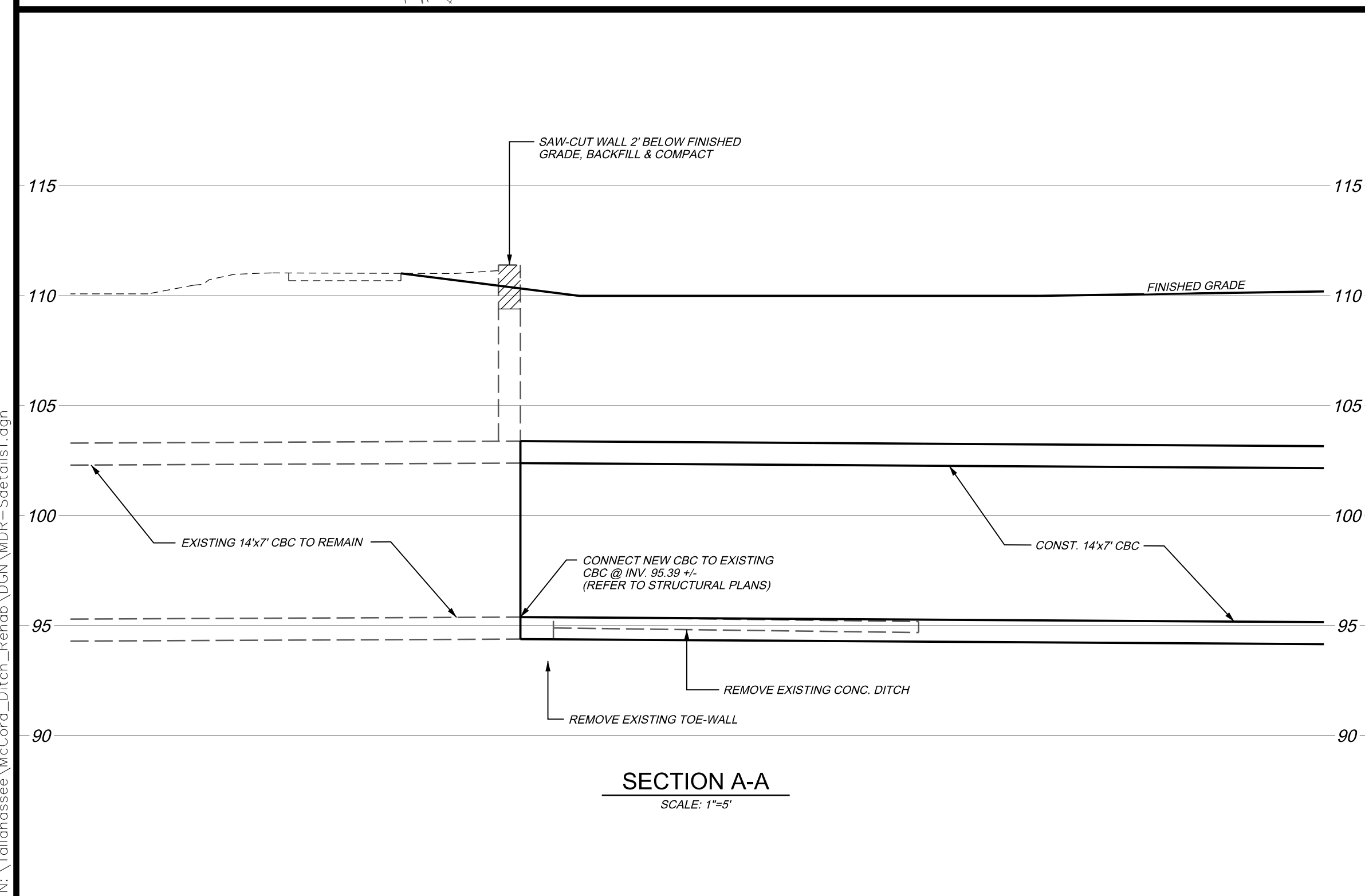
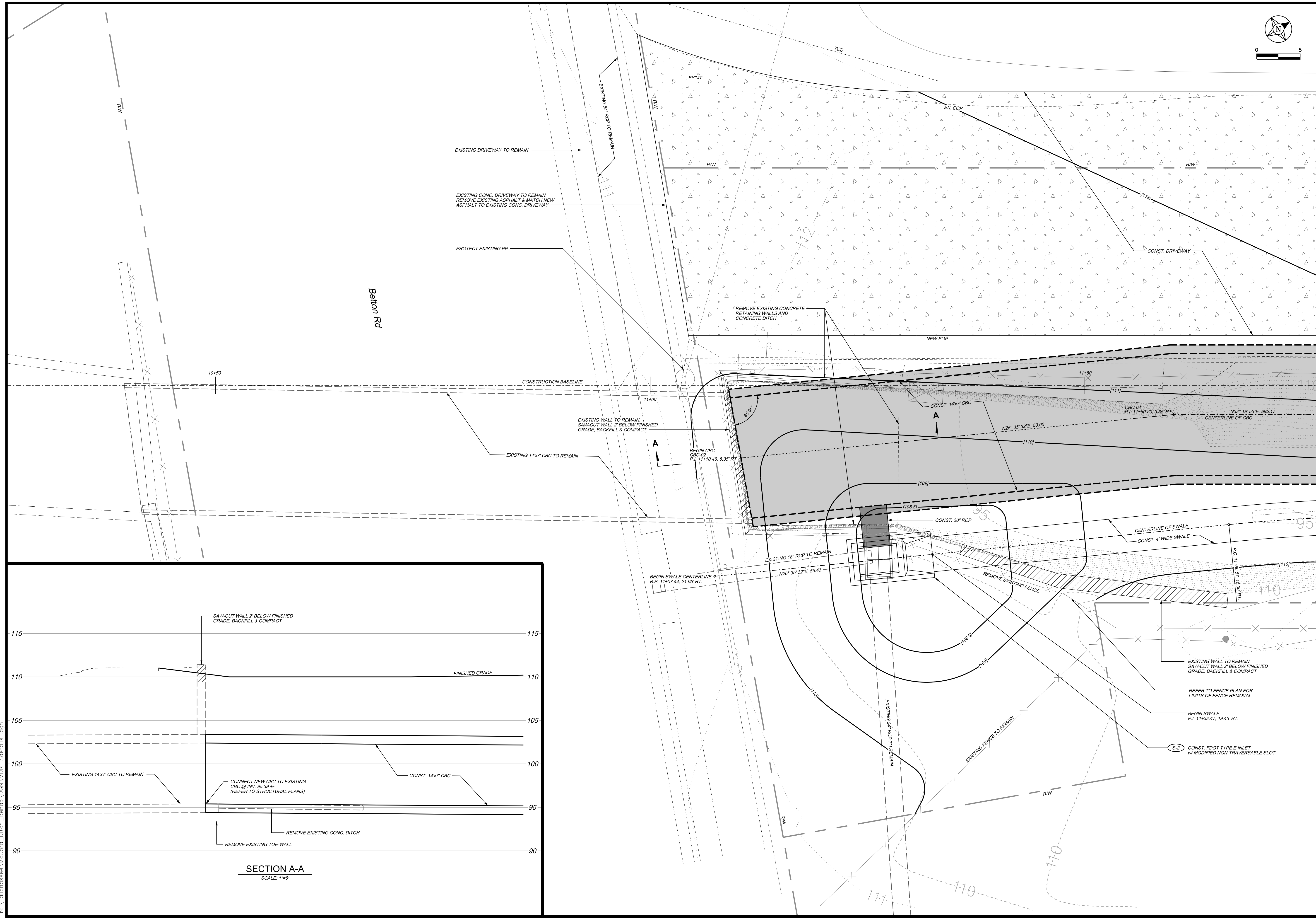
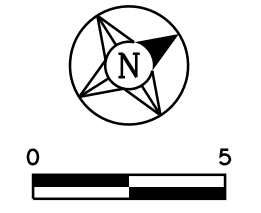
ORIGINAL: MAY 2019

REVISIONS:	DATE
1	
2	
3	
4	
5	

JOB NO. 2014-039.10  
 DRAWN: AFD/BJG  
 DESIGNED: RBG  
 CHECKED: RBG  
 QC: RBG

**SHEET 17**

3/7/2022  
N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-Specialist.dgn



SECTION A-A  
SCALE: 1"=5'

ORIGINAL	MAY 2019
REVISIONS:	
1	
2	
3	
4	
5	

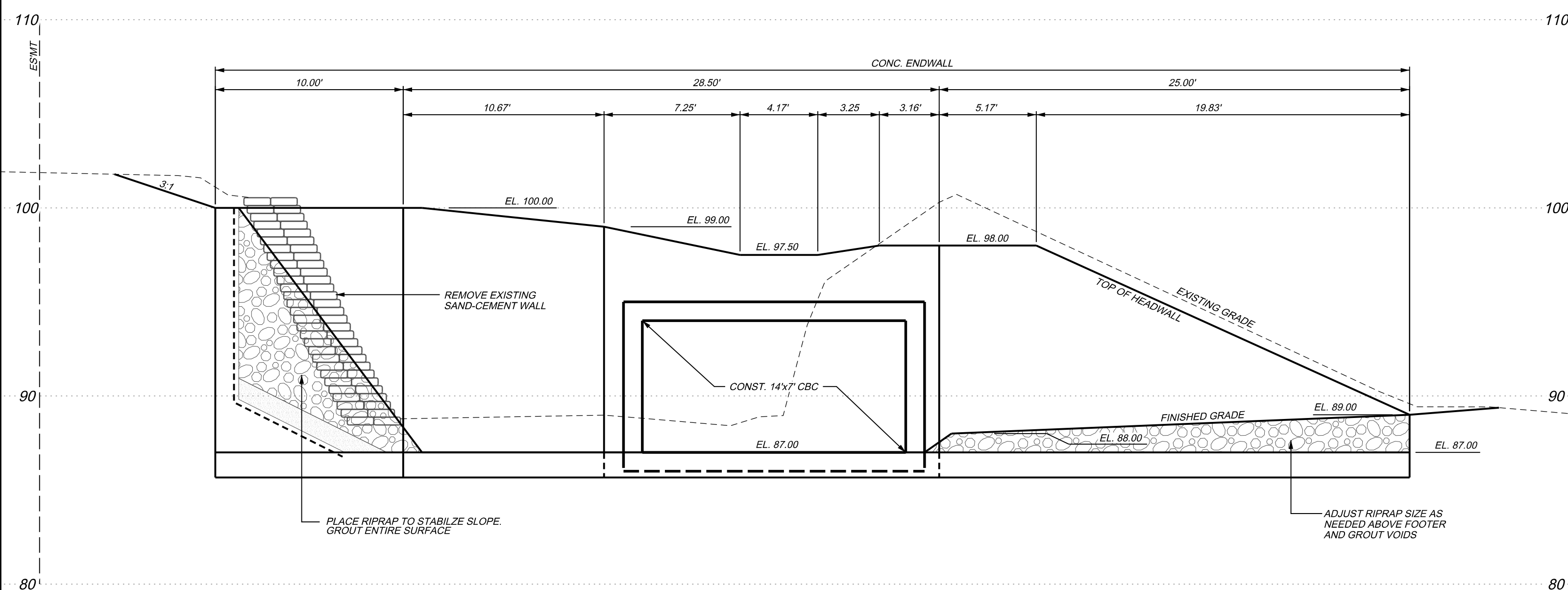
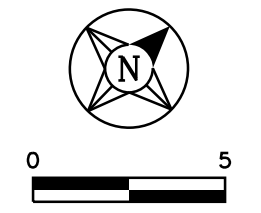
**SPECIAL DETAILS**  
**BETTON ROAD**

**MCCORD POND**  
**DRAINAGE DITCH**  
**IMPROVEMENTS**  
**PROJECT**

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Orpington Street, Suite 100  
 Orlando, FL 32817  
 PH: (407) 679-3001  
 FAX: (407) 679-2691  
 DBPR No. 5112

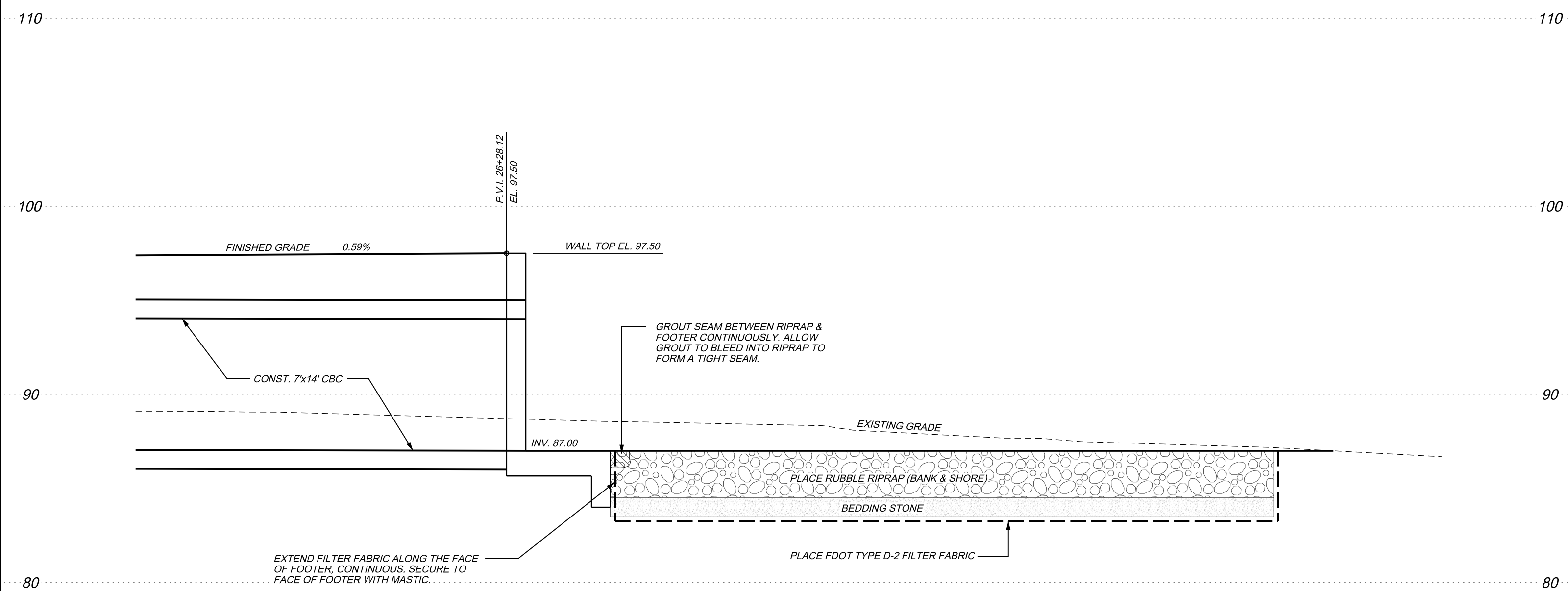


JOB NO. 2014-039.10  
 DRAWN AFD/BJG  
 DESIGNED RBG  
 CHECKED RBG  
 QC RBG

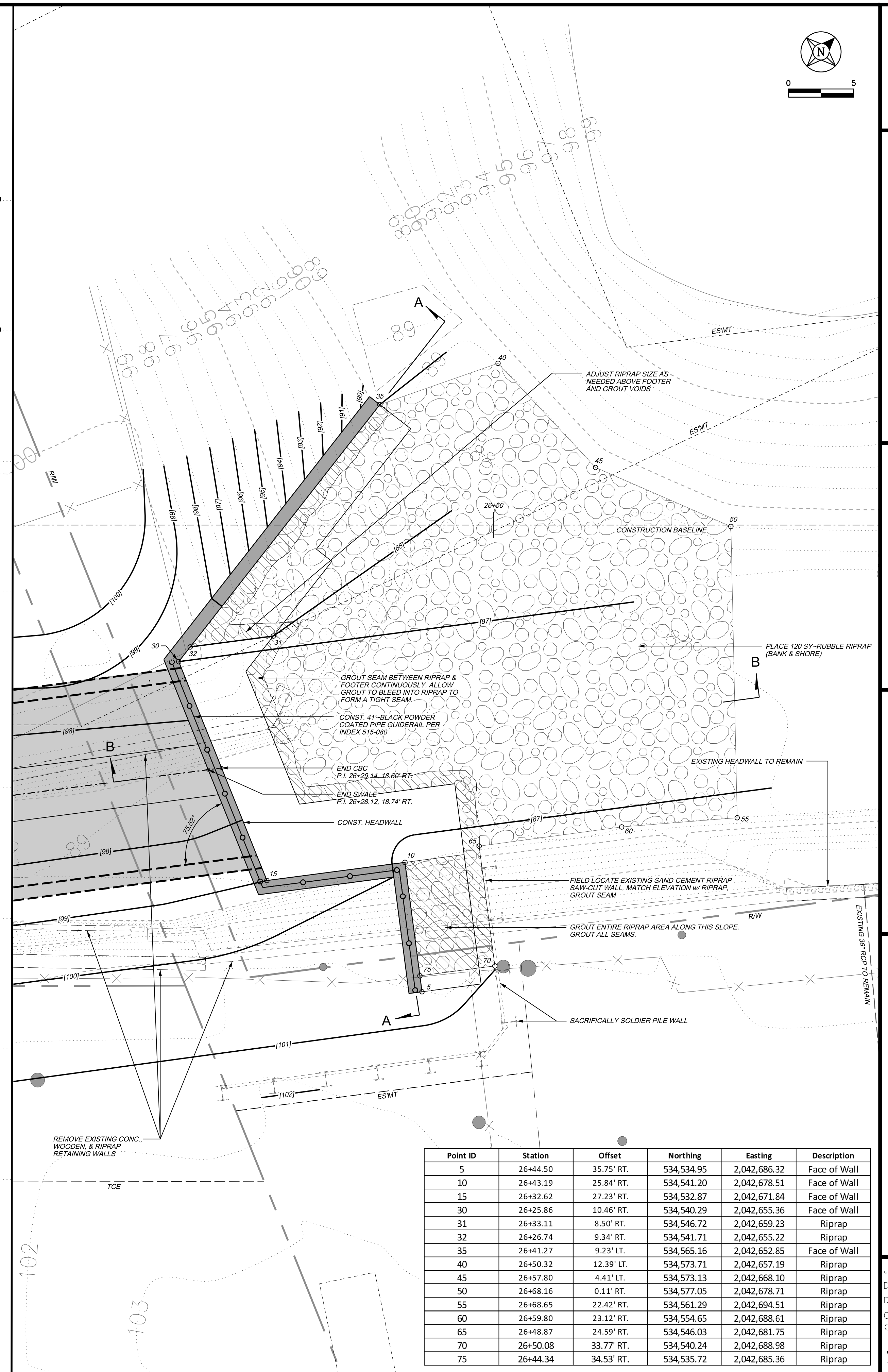


SECTION A-A  
SCALE: 1"=5'

NOTE: SECTION DRAWN ALONG FACE OF ENDWALL/SHEET PILE WALL. REFER TO STRUCTURAL PLANS FOR DETAILS.



SECTION B-B  
SCALE: 1"=5'



Point ID	Station	Offset	Northing	Easting	Description
5	26+44.50	35.75' RT.	534,534.95	2,042,686.32	Face of Wall
10	26+43.19	25.84' RT.	534,541.20	2,042,678.51	Face of Wall
15	26+32.62	27.23' RT.	534,532.87	2,042,671.84	Face of Wall
30	26+25.86	10.46' RT.	534,540.29	2,042,655.36	Face of Wall
31	26+33.11	8.50' RT.	534,546.72	2,042,659.23	Riprap
32	26+26.74	9.34' RT.	534,541.71	2,042,655.22	Riprap
35	26+41.27	9.23' LT.	534,565.16	2,042,652.85	Face of Wall
40	26+50.32	12.39' LT.	534,573.71	2,042,657.19	Riprap
45	26+57.80	4.41' LT.	534,573.13	2,042,668.10	Riprap
50	26+68.16	0.11' RT.	534,577.05	2,042,678.71	Riprap
55	26+68.65	22.42' RT.	534,561.29	2,042,694.51	Riprap
60	26+59.80	23.12' RT.	534,554.65	2,042,688.61	Riprap
65	26+48.87	24.59' RT.	534,546.03	2,042,681.75	Riprap
70	26+50.08	33.77' RT.	534,540.24	2,042,688.98	Riprap
75	26+44.34	34.53' RT.	534,535.72	2,042,685.36	Riprap

PROJECT: MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT

DATE: MAY 2019

REVISIONS:

1	
2	
3	
4	
5	

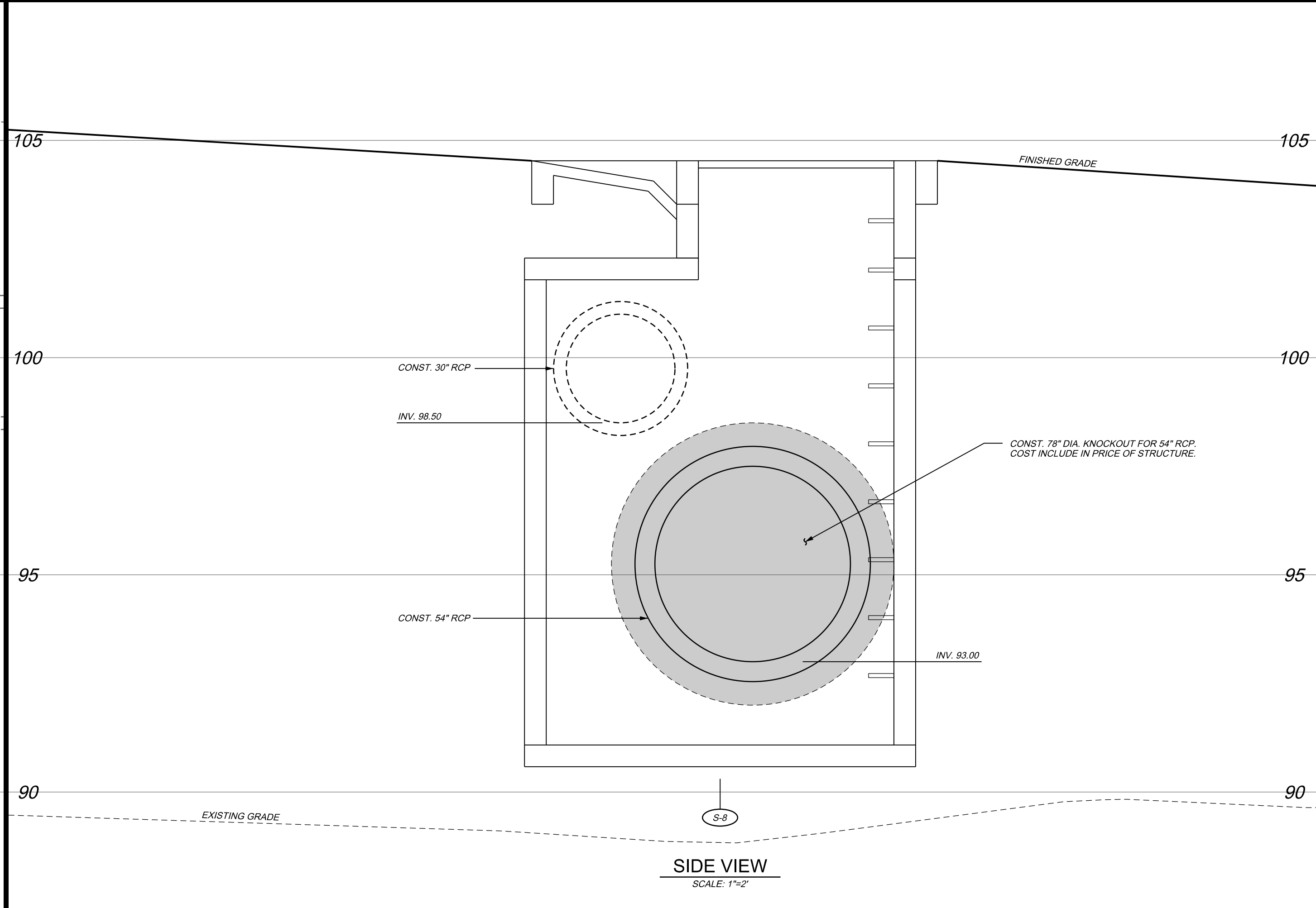
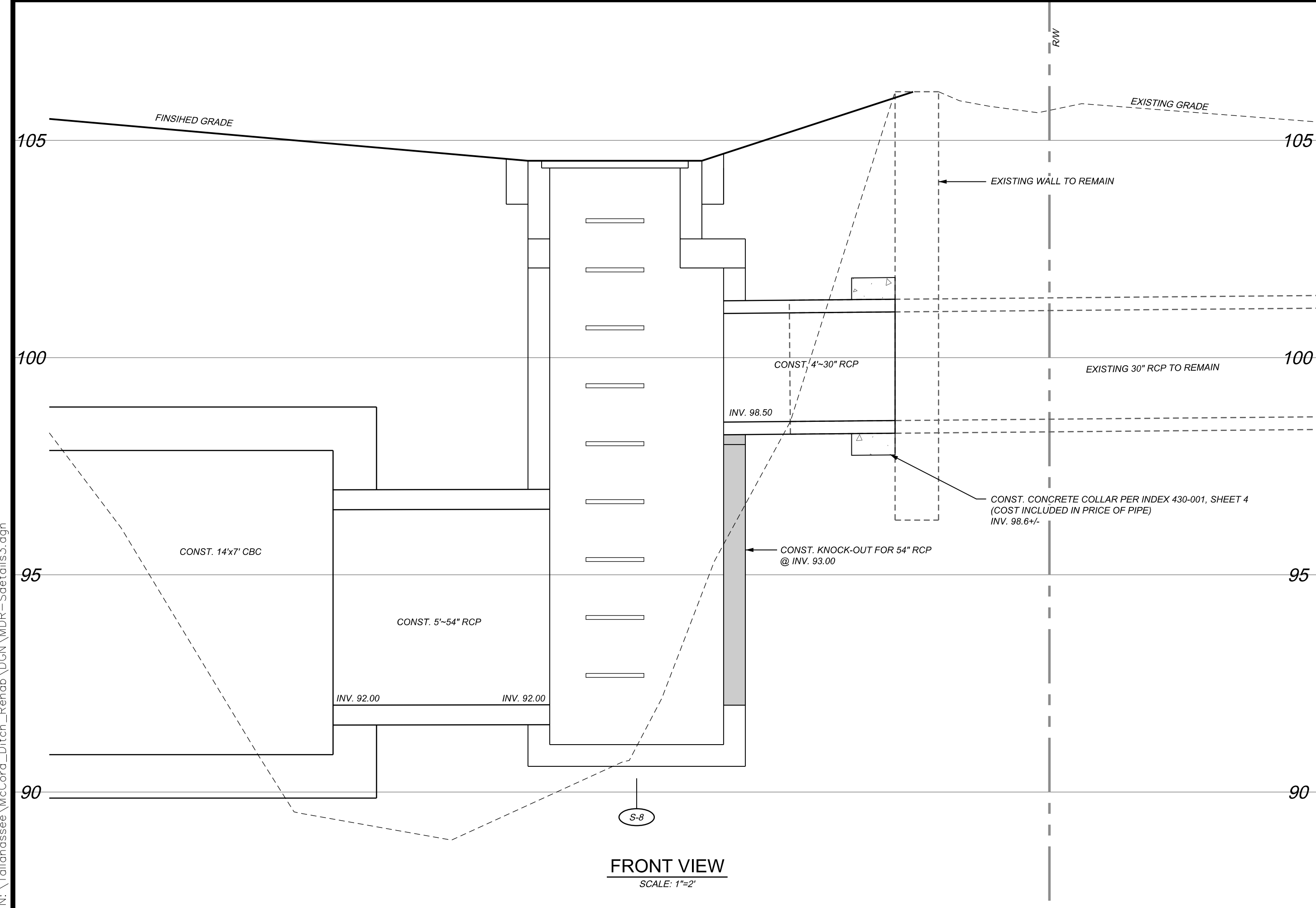
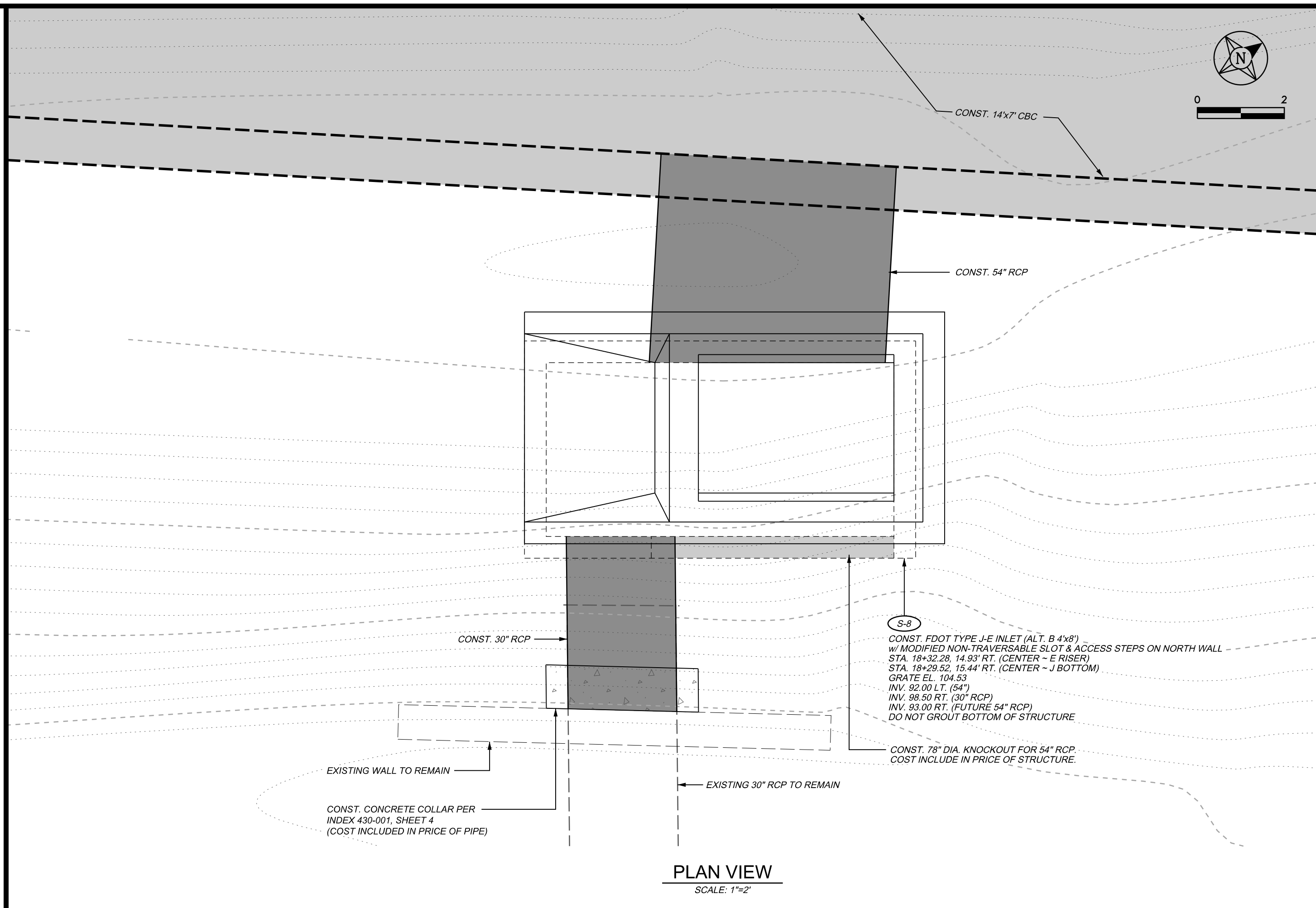
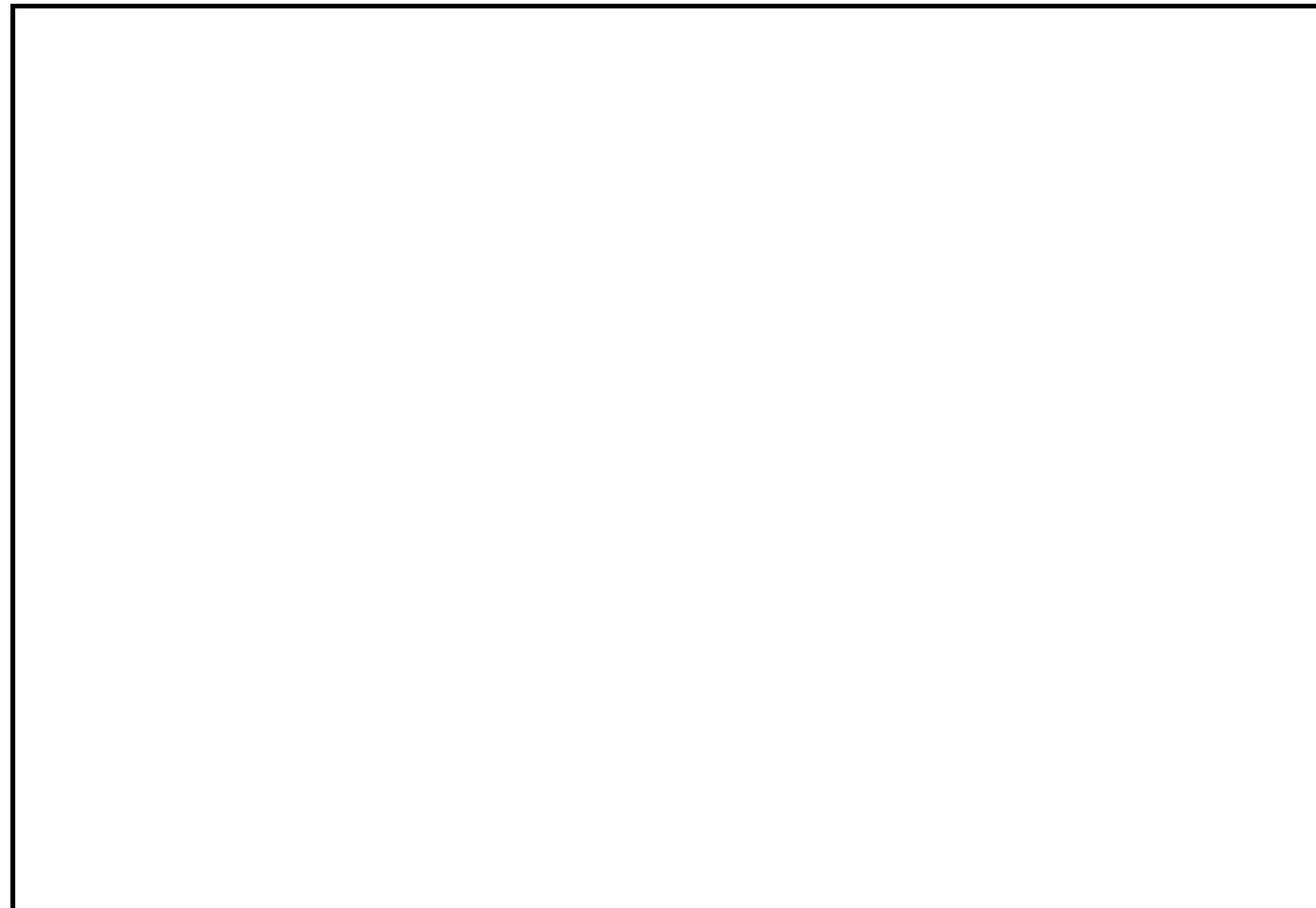
SPECIAL DETAILS  
OUTFALL

SINGHOFEN & ASSOCIATES, INC.  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Oriongrove Street, Suite 100  
Orion, Michigan 48361  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112

JOB NO. 2014-039.10  
DRAWN: AFD/BJG  
DESIGNED: RBG  
CHECKED: RBG  
QC: RBG

SHEET 19

3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-Sideails3.dgn



ORIGINAL: MAY 2019

REVISIONS:

1	
2	
3	
4	
5	

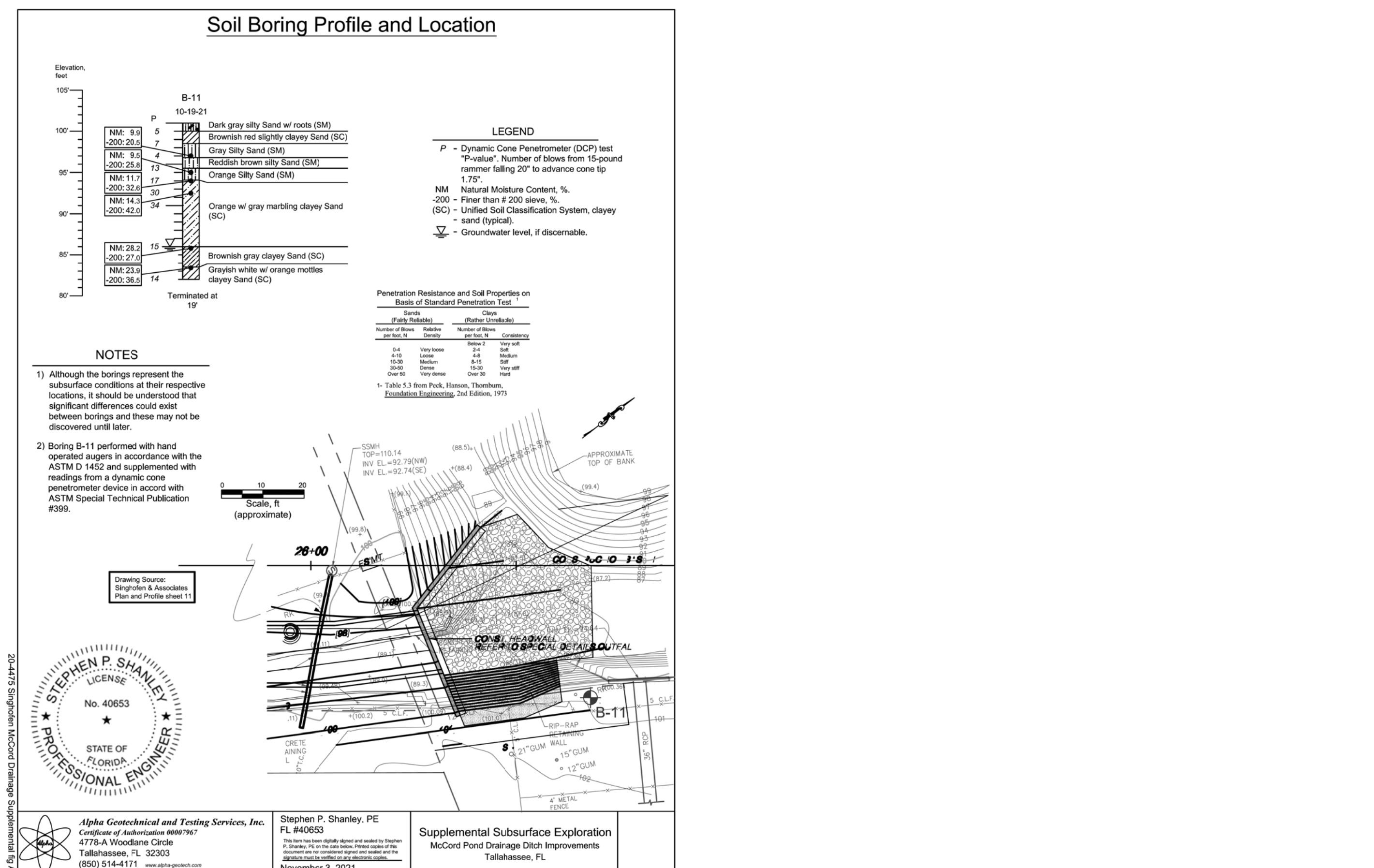
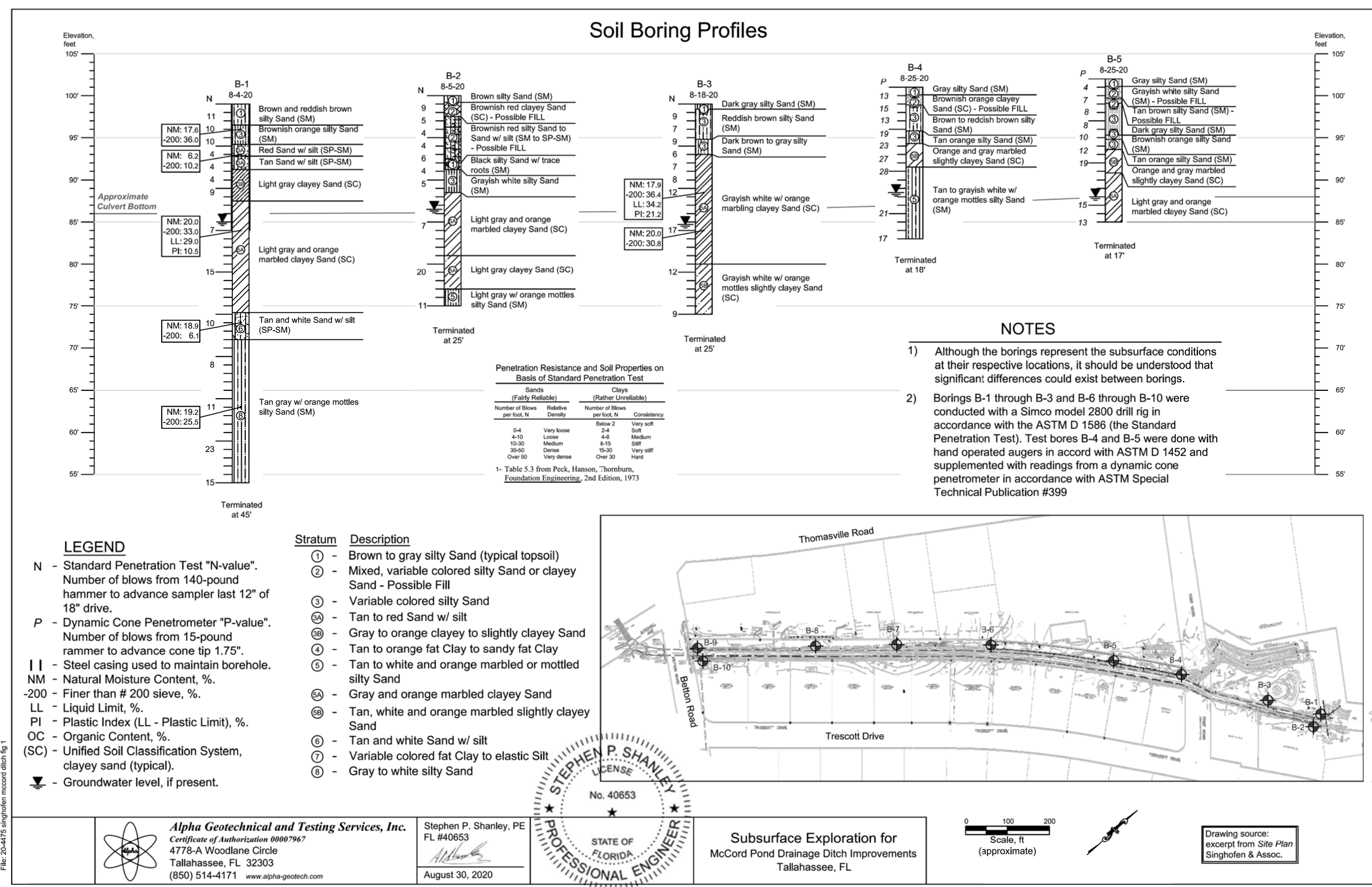
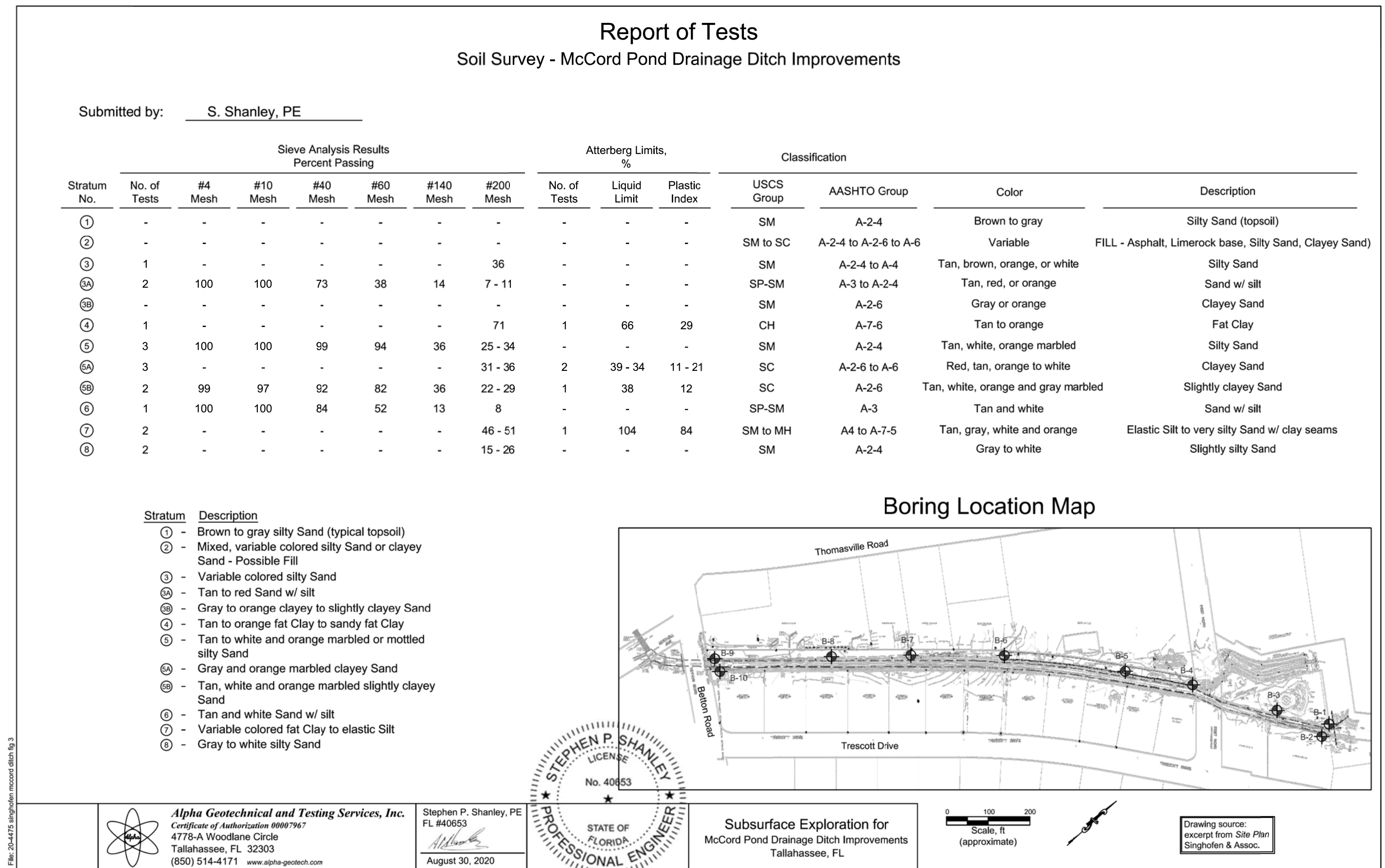
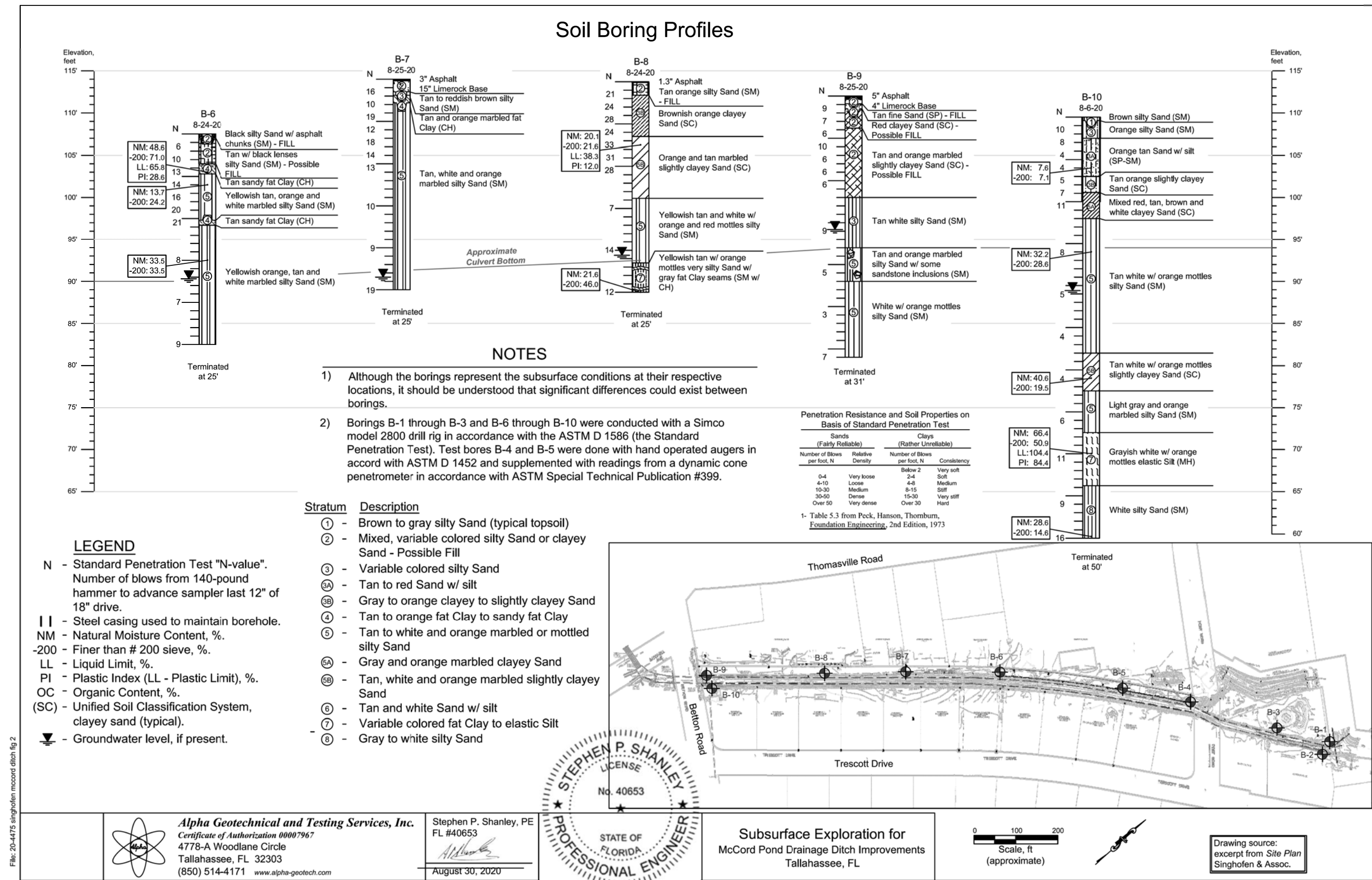
DATE: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_

PROJECT: MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT

SINGHOFEN & ASSOCIATES, INC.  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Springtree Street, Suite 100  
 Orlando, FL 32817  
 Ph: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112

JOB NO. 2014-039.10  
 DRAWN: AFD/BJG  
 DESIGNED: RBG  
 CHECKED: RBG  
 QC: RBG

SHEET 20



3/7/2022  
 N:\Tallahassee\McCord\_Ditch\_Rehab\_VGN\MDR-SoilBorings.dgn  
 File: 2014175 Singhofen record.dwg, Fig. 2

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

REVISIONS:

1	ORIGINAL	MAY 2019
2		
3		
4		
5		

**SOIL SURVEY**

**PROJECT**

**MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT**

**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Oriongrove Street, Suite 100  
 Tallahassee, FL 32311  
 Phone: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112

JOB NO. 2014-039.10  
 DRAWN: AFD/BJG  
 DESIGNED: RBG  
 CHECKED: RBG  
 OC: RBG

**SHEET 21**

THE FOLLOWING NARRATIVE IS THE STORMWATER POLLUTION PREVENTION PLAN AND CONTAINS REFERENCES TO THE FOOT STANDARD SPECIFICATIONS, STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, AND OTHER SHEETS OF THESE CONSTRUCTION DOCUMENTS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE COVER SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS:

- THIS NARRATIVE DESCRIPTION.
- THE DOCUMENTS REFERENCED IN THIS NARRATIVE.
- THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
- REPORTS OF INSPECTION MADE DURING CONSTRUCTION.

1. SITE DESCRIPTION

1.A NATURE OF CONSTRUCTION ACTIVITY

THE SUBJECT SITE IS LOCATED IN SECTION 19, TOWNSHIP 1 NORTH, RANGE 1 EAST WITHIN LEON COUNTY, FLORIDA. THE PROJECT INCLUDES CHANNEL IMPROVEMENTS, SLOPE GRADING, AND THE INSTALLATION OF CONCRETE BOX CULVERT ALONG A 1,550 LINEAR FOOT SEGMENT OF THE MCCORD POND DRAINAGE DITCH.

1.B SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES

- SITE PREPARATION
  - A) INSTALL TEMPORARY BARRICADE FENCE AS DIRECTED BY THE ENGINEER.
  - B) INSTALL MATERIALS FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION (INCLUDES SEDIMENT BARRIERS AND SEDIMENT BASIN(S)).
- TEMPORARY SEDIMENT BASIN(S)
  - A) CONSTRUCT SEDIMENT BASIN(S) AT LOCATION(S) DETERMINED BY THE CONTRACTOR.
  - B) REMOVAL AND DISPOSAL OF SEDIMENT CAPTURED BY THE SEDIMENT BASIN(S) SHALL BE PERFORMED PERIODICALLY OR AS DIRECTED BY THE ENGINEER TO PREVENT SEDIMENT FROM BEING TRANSPORTED DOWNSTREAM.
  - C) REMOVAL OF THE SEDIMENT BASIN(S) IS THE LAST PHASE OF CONSTRUCTION.
- PROGRESSION OF WORK
  - A) EACH WORK AREA SHALL BE ISOLATED AND COMPLETED PRIOR TO PROCEEDING TO THE NEXT WORK AREA.
- FINAL SITE WORK:
  - A) CLEAN ALL WORK AREAS.
  - B) SOD ALL AREAS NOT PREVIOUSLY SODDED.
  - C) REMOVE SEDIMENT CAPTURED BY SEDIMENT BARRIERS AND SEDIMENT BASIN(S).
  - D) REMOVE SEDIMENT BARRIERS AND SEDIMENT BASIN(S).
  - E) REMOVE MATERIALS FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION.

1.C AREA ESTIMATES

ALL ESTIMATES ARE BASED ON AREAS LIKELY TO BE IMPACTED BY CONSTRUCTION ACTIVITY. THE TOTAL ESTIMATED IMPACTS COVER 1.6 ACRES.

1.D STORMWATER DATA

THIS IS A STORMWATER RETROFIT PROJECT. NO CHANGES TO THE EXISTING DRAINAGE ARE PROPOSED.

1.E SITE MAP

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

1.F RECEIVING WATERS/WETLAND AREAS

THE EXISTING DITCH WITHIN THE PROJECT AREA FLOWS NORTH FROM BETTON ROAD TOWARDS MCCORD POND. THE OUTFALL INTO MCCORD POND OCCURS AT LATITUDE 30° 28' 22" N, LONGITUDE 84° 15' 42" W.

2. CONTROLS

2.A EROSION AND SEDIMENT CONTROLS

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AS WELL AS THE TRANSPORT OF ERODED MATERIALS OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ANY AND ALL SEDIMENT CONTROL DEVICES THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS AND USED FOR ESTIMATING BID QUANTITIES AND IS PROVIDED FOR GUIDANCE IN PREPARATION OF A SEQUENCE OF CONSTRUCTION/EROSION CONTROL PLAN. THE LOCATIONS AND TYPES OF ENVIRONMENTAL CONTROL FEATURES SHOWN MAY NOT ADEQUATELY PREVENT EROSION OR THE TRANSPORTATION OF ERODED MATERIAL OFF-SITE DURING EACH PHASE OF CONSTRUCTION. SUPPLEMENTARY SEDIMENT AND EROSION CONTROL DEVICES MAY BE REQUIRED TO ACCOMMODATE THE CONTRACTOR'S PHASING OF CONSTRUCTION ACTIVITIES.

PRIOR TO THE PRECONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A DETAILED EROSION CONTROL PLAN WHICH WILL BE CONSIDERED THE FIRST FORMAL UPDATE OF THE SWPPP. TO SPECIFICALLY ADDRESS THE CONTRACTOR'S MEANS, METHODS, AND PHASING OF CONSTRUCTION ACTIVITIES. THE EROSION CONTROL PLAN WILL PROVIDE THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S REPRESENTATIVE RESPONSIBLE ON A 24-HOUR BASIS FOR EROSION AND SEDIMENT CONTROL, INSTALLATION AND MAINTENANCE. THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP AS REQUIRED TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER, OR OTHERWISE VIOLATING ANY LOCAL, STATE, OR FEDERAL PERMIT REQUIREMENTS.

2.A.1 STABILIZATION PRACTICES

- A. THE CONTRACTOR WILL FURNISH, INSTALL, MAINTAIN, AND, WHEN APPROPRIATE, REMOVE ALL NECESSARY EROSION AND SEDIMENT CONTROLS.
- B. EROSION AND SEDIMENT CONTROLS WILL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL DEVICES WILL BE EMPLOYED AS A PERIMETER OF DEFENSE AGAINST ANY TRANSPORT OF SILT OFF SITE.
- C. THE AMOUNT OF AREA DISTURBED AT ONE TIME WILL BE LIMITED TO THE MINIMUM NECESSARY TO ADEQUATELY IMPLEMENT THE WORK. CONSTRUCTION OPERATIONS WILL BE CONTROLLED TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER, AND AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WILL NOT BE DISTURBED.
- D. EXCAVATED MATERIALS WILL BE STORED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORMWATER RUNOFF, AND STOCKPILES WILL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES. NEW AND EXISTING STRUCTURES WILL BE PROTECTED FROM SILTATION DURING CONSTRUCTION.
- E. STABILIZATION MEASURES WILL BE INITIATED FOR EROSION AND SEDIMENTATION CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- F. PERMANENT EROSION MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREAS WILL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES WILL BE INSTALLED. ALL TEMPORARY PROTECTION WILL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

2.A.2 STRUCTURAL PRACTICES

SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE CONTRACTOR WILL MAINTAIN EXISTING FLOW CAPACITY DURING HEAVY STORM EVENTS. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

- SEDIMENT BARRIERS AND SEDIMENT BASIN(S).
- INLET PROTECTION IN ACCORDANCE WITH STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.

2.B STORMWATER MANAGEMENT

REFER TO CONSTRUCTION PLANS FOR CONVEYANCE OF STORMWATER RUNOFF.

2.C OTHER CONTROLS

2.C.1 WASTE DISPOSAL

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

2.C.2 OFF-SITE VEHICLE TRACKING AND DUST CONTROL

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN. ALL PAVED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE SWEEPED AND KEPT CLEAN DAILY.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANKS

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

2.C.4 FERTILIZERS AND PESTICIDES

TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN.

2.C.5 NON STORMWATER DISCHARGES AND HAZARDOUS WASTE

IF THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY WITH JURISDICTION.

3.0 CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

REFER TO PERMITS.

4.0 INSPECTION AND MAINTENANCE PROCEDURES

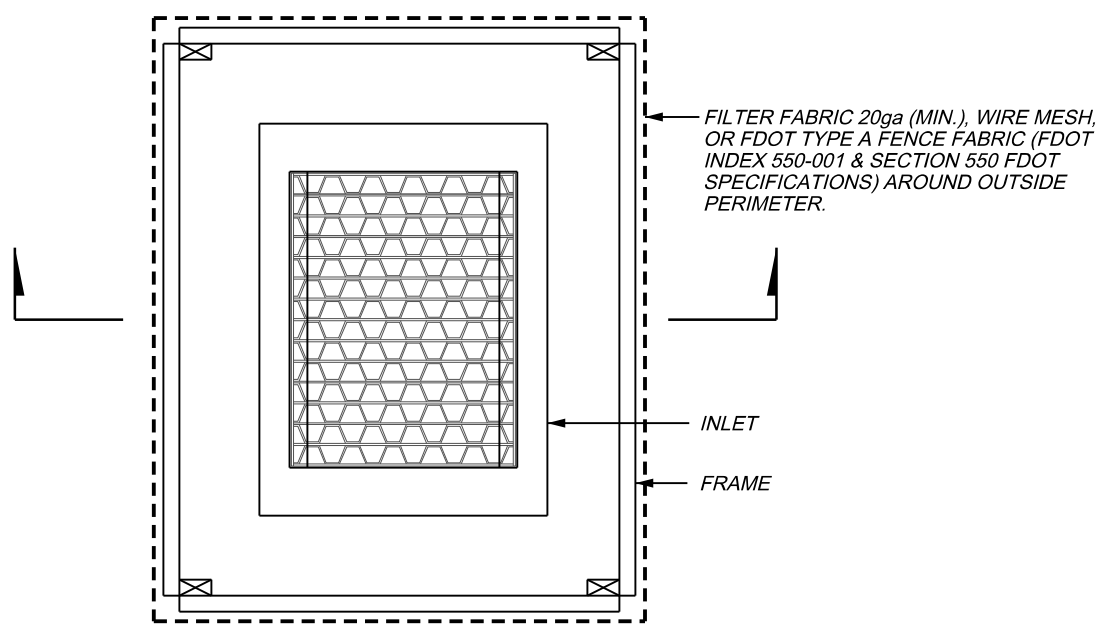
- 4.A ALL EROSION AND SEDIMENT CONTROLS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND AFTER EACH RAINFALL EVENT OF ONE INCH OR GREATER.
- 4.B EROSION AND SEDIMENT CONTROLS IN ACTIVE WORK ZONES WILL BE INSPECTED AT THE END OF EACH WORKDAY TO ASSURE THAT THEY HAVE NOT BEEN DISTURBED BY CONSTRUCTION ACTIVITIES.
- 4.C ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF IDENTIFYING THE NEED FOR REPAIR.
- 4.D SYNTHETIC HAY OR STRAW BALE BARRIERS WILL BE INSPECTED TO IDENTIFY DAMAGED BALES AND EROSION UNDER OR AROUND THE BALES. SEDIMENT WILL BE REMOVED AFTER EACH RAINFALL AND WILL NOT EXCEED A DEPTH OF ONE-HALF THE HEIGHT OF THE BARRIER.
- 4.E SILT FENCE WILL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL FOR DEPTH OF SEDIMENT, TEARS, AND ATTACHMENT TO POSTS. AND TO SEE THAT THE POSTS ARE FIRMLY EMBEDDED. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE. SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT. BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REDUCES STORAGE VOLUME OF THE BASIN BY 10 PERCENT.
- 4.G THE CONTRACTOR WILL USE A MAINTENANCE INSPECTION REPORT FORM ACCEPTABLE TO THE ENGINEER TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH REPORT AND SUBMIT A COPY TO THE ENGINEER.
- 4.H THE CONTRACTOR IS REQUIRED TO SWEEP THE STREETS WITHIN EACH ACTIVE WORK ZONE AT THE END OF EACH WORK DAY AND AFTER RAINFALL EVENTS.

5.0 NON-STORMWATER DISCHARGES

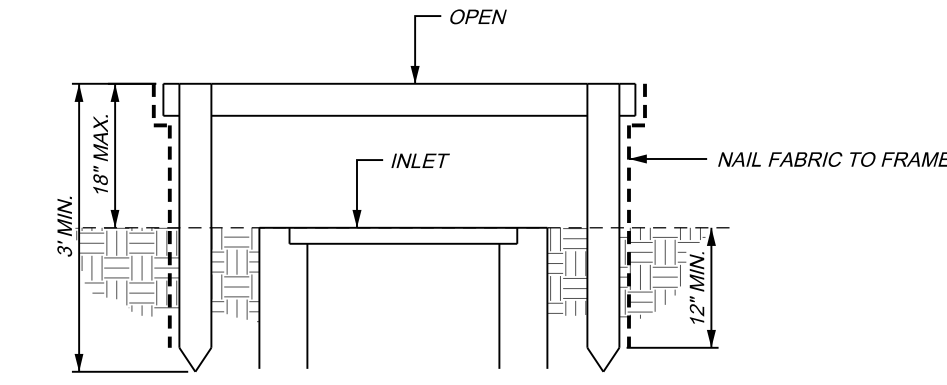
THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED TO OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- A. UNCONTAMINATED GROUNDWATER FROM DEWATERING OPERATIONS.

ALL NON-STORMWATER DISCHARGES WILL BE DIRECTED TO SEDIMENT BASINS PRIOR TO DISCHARGE.



PLAN  
NTS



SECTION  
NTS

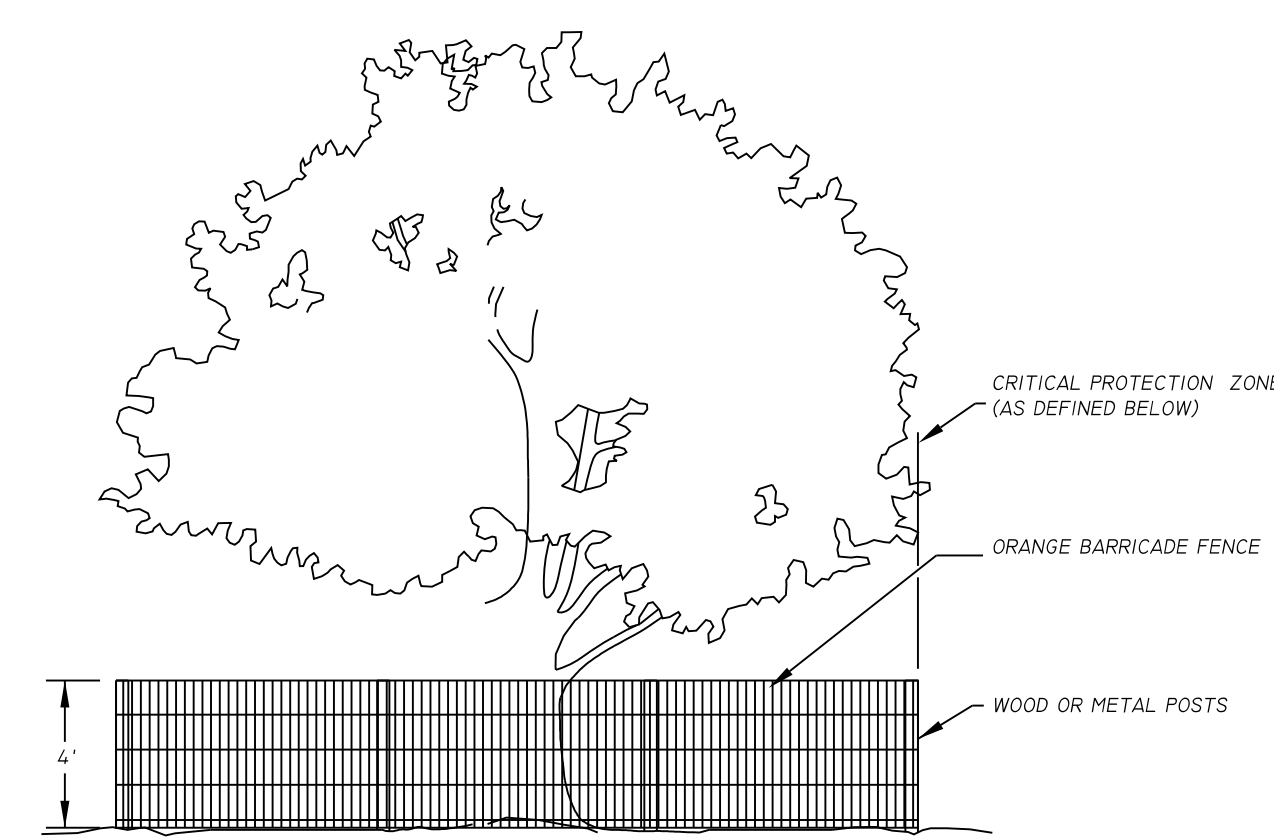
DITCH BOTTOM INLET PROTECTION MAINTENANCE

- INLET PROTECTION SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE INLET PROTECTIONS STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE FABRIC BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE INLET PROTECTION IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

DITCH BOTTOM INLET PROTECTION

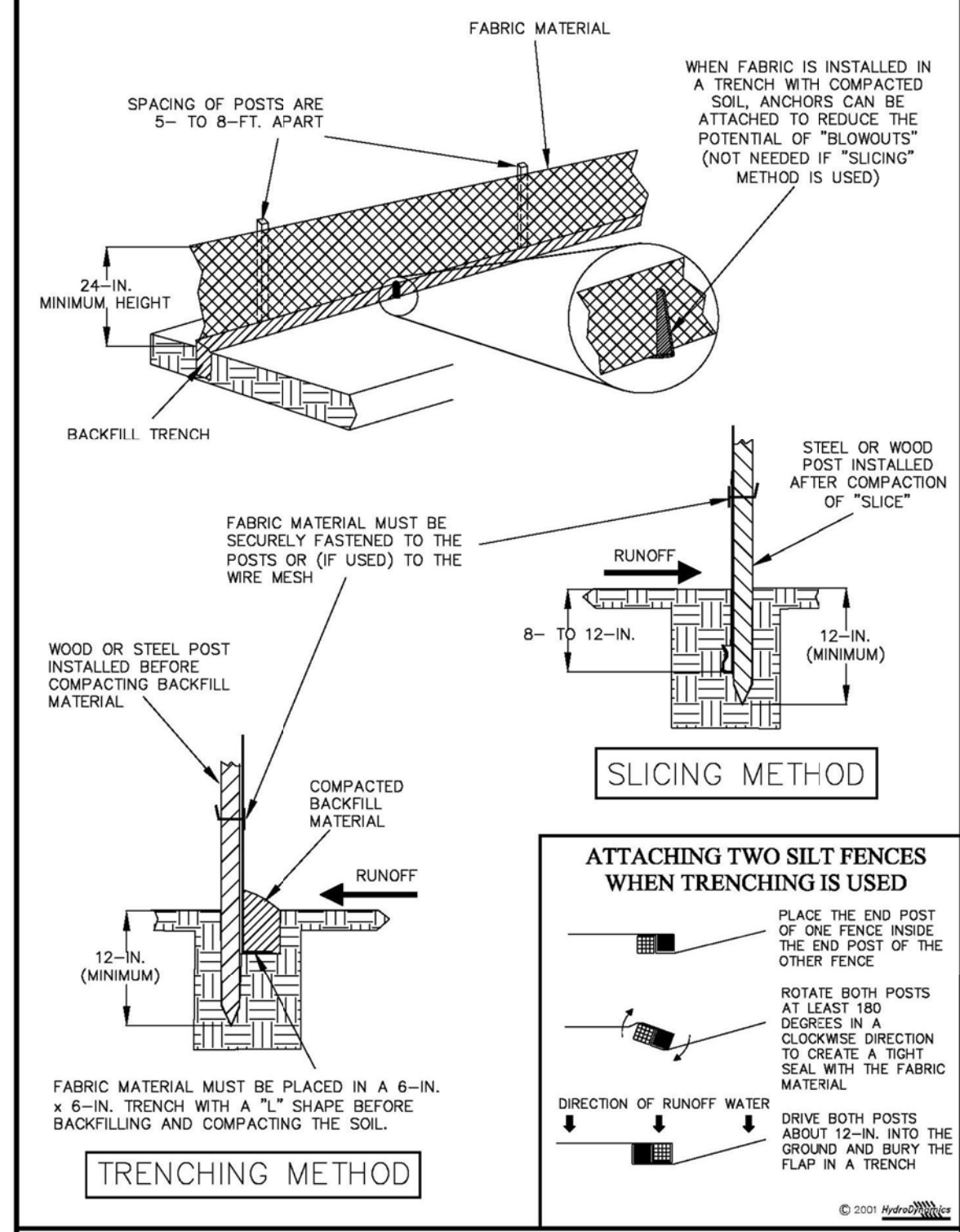
GENERAL NOTES - TREE PROTECTION:

- BARRICADE FENCING SHALL BE INSTALLED AT OR NEAR THE CRITICAL PROTECTION ZONE OF EACH TREE TO BE PROTECTED PRIOR TO INITIATION OF ANY CONSTRUCTION ACTIVITY, AND THE FENCING SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
- ALL ROOTS 3/4" IN DIAMETER AND LARGER OF TREES TO BE PROTECTED OR PRESERVED THAT ARE EXPOSED DURING TRENCHING AND EXCAVATION SHALL BE CLEANLY CUT WITH A HANDSAW AND COVERED IMMEDIATELY WITH SOIL OR KEPT MOISTENED WITH WET BURLAP OR PEAT MOSS UNTIL THE TRENCH CAN BE FILLED. WHEN IT IS NOT POSSIBLE TO BACKFILL IN THE SAME DAY, THE ROOTS SHALL BE FRESHLY CUT WITH A HANDSAW A REASONABLE DISTANCE FROM THE ORIGINAL CUT AND BACKFILLED IMMEDIATELY TO AVOID SOIL OR ROOT DEHYDRATION.
- THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A CERTIFIED ARBORIST TO BE ON SITE TO DIRECT TREE PROTECTION AND MITIGATION ACTIVITIES DURING ALL CONSTRUCTION OPERATIONS WITHIN THE CPZ OF TREES IDENTIFIED AS THOSE REQUIRING CERTIFIED ARBORIST SERVICES. MITIGATION ACTIVITIES INCLUDE LIMB PRUNING, ROOT CUTTING, WATERING, AND OTHER OPERATIONS NEEDED TO PRESERVE THE HEALTH OF THE TREE. SHOULD THE ARBORIST DETERMINE THAT MITIGATION EFFORTS WILL NOT BE SUFFICIENT TO OFFSET CONSTRUCTION IMPACTS AND TREE REMOVAL IS WARRANTED, THE ARBORIST WILL IMMEDIATELY NOTIFY THE CITY. SHOULD THE CITY DETERMINE THAT TREE REMOVAL IS WARRANTED, THE CITY WILL DIRECT THE CONTRACTOR TO REMOVE THE TREE. THE COST TO REMOVE ANY TREE DAMAGED BY CONSTRUCTION IMPACTS SHALL BE INCLUDED IN THE BID ITEM FOR CLEARING AND GRUBBING. THE COST OF ALL ARBORIST SERVICES AND ALL TREE MITIGATION ACTIVITIES AND OPERATIONS SHALL BE INCLUDED IN THE BID ITEM FOR MOBILIZATION.

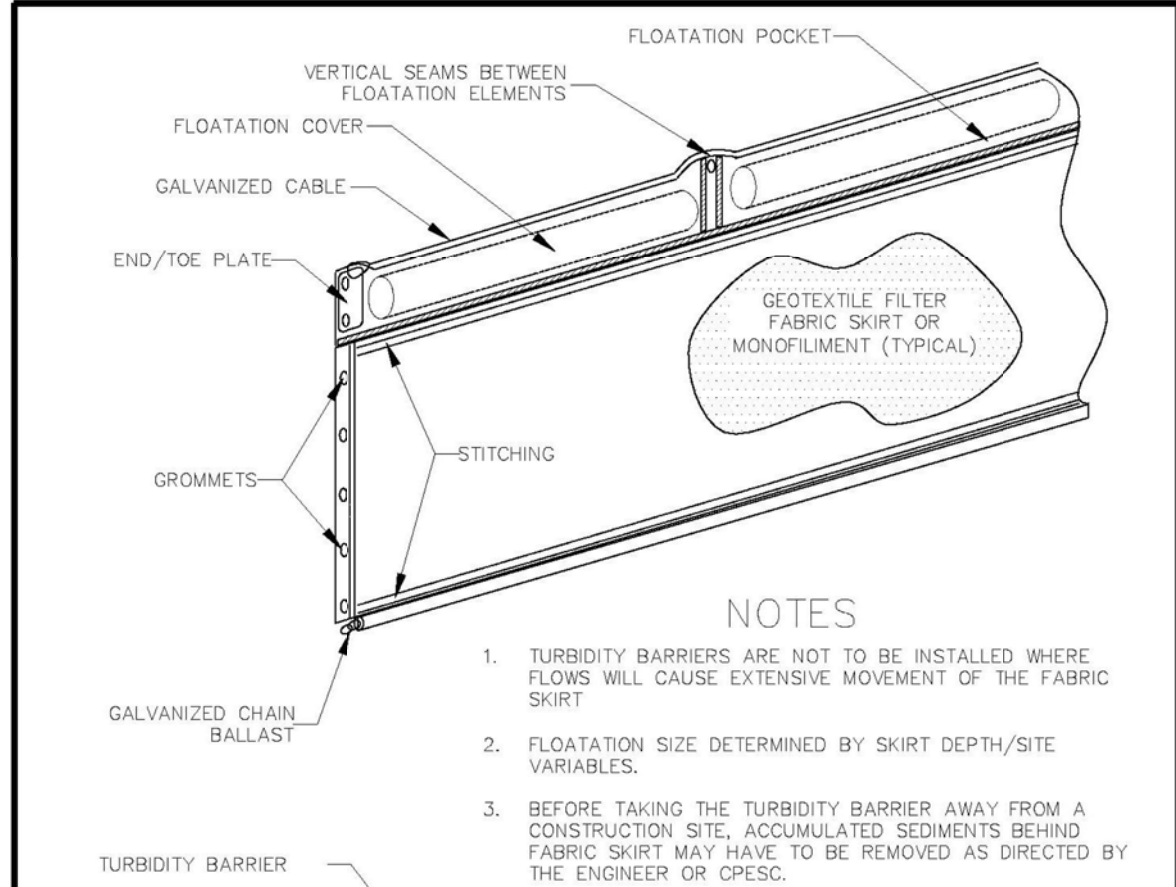


NOTES:  
THE TREE PROTECTION BARRICADE IS TO PREVENT DISTURBANCE OF THE CRITICAL PROTECTION ZONE (CPZ). THE CPZ IS THE AREA SURROUNDING A TREE WITH A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT. THE AREA WITHIN BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.

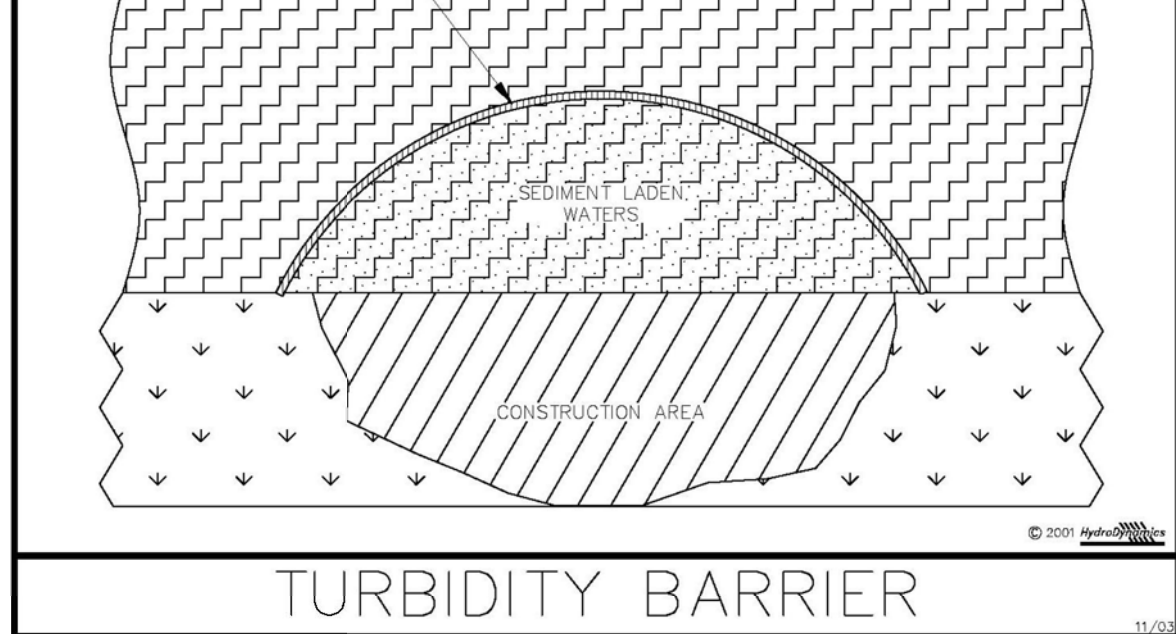
TREE PROTECTION BARRICADE  
NTS



SILT FENCE BARRIER INSTALLATION



TURBIDITY BARRIER



TURBIDITY BARRIER

- NOTES
- TURBIDITY BARRIERS ARE NOT TO BE INSTALLED WHERE FLOWS WILL CAUSE EXTENSIVE MOVEMENT OF THE FABRIC SKIRT.
  - FLOTATION SIZE DETERMINED BY SKIRT DEPTH/SITE VARIABLES.
  - BEFORE TAKING THE TURBIDITY BARRIER AWAY FROM A CONSTRUCTION SITE, ACCUMULATED SEDIMENTS BEHIND FABRIC SKIRT MAY HAVE TO BE REMOVED AS DIRECTED BY THE ENGINEER OR OREC.

ORIGINAL MAY 2019

REVISIONS:	1	2	3	4	5

STORMWATER POLLUTION PREVENTION & TREE PROTECTION NOTES & DETAILS

MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT

SINGHOFEN & ASSOCIATES, INC.

STORMWATER MANAGEMENT AND CIVIL ENGINEERING

11723 Orangeridge Street, Suite 100  
Orlando, FL 32817  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112

SAI

JOB NO. 2014-039.10

DRAWN AFD/BJG

DESIGNED RBG

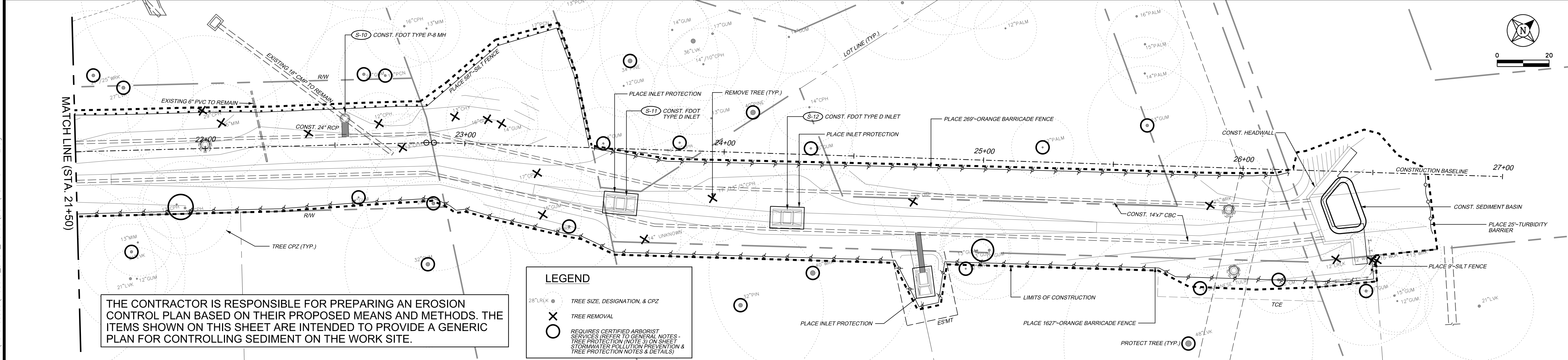
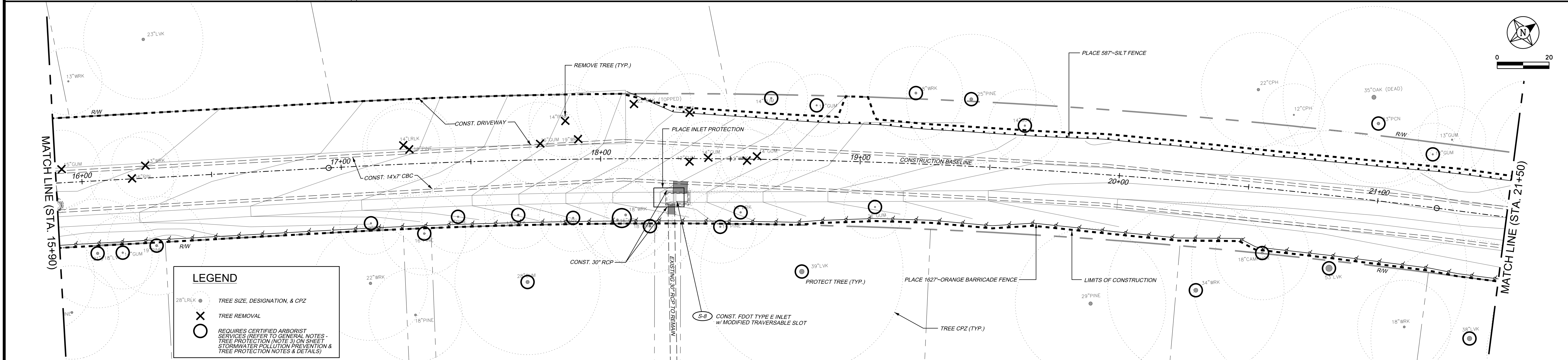
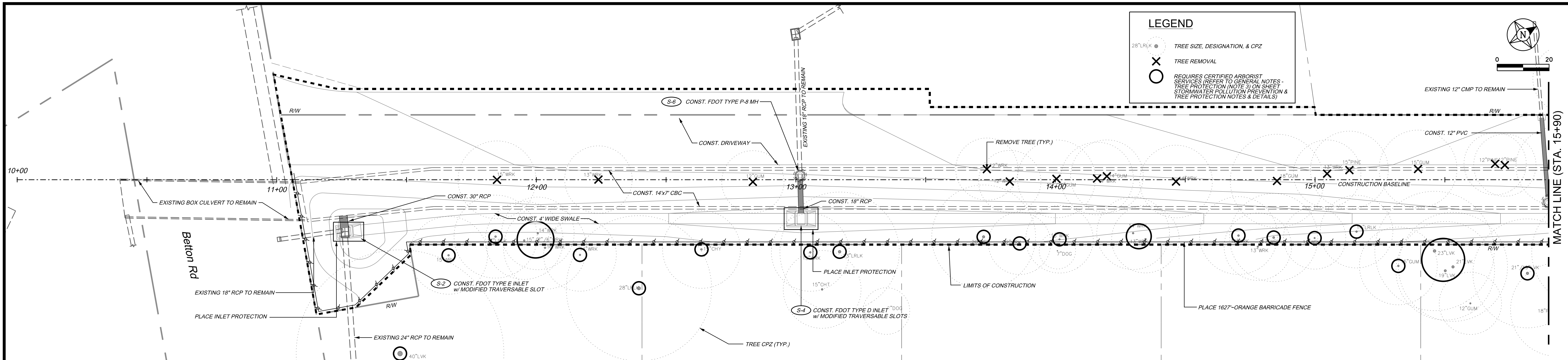
CHECKED RBG

OC RBG

SHEET 22

3/7/2022  
N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-SWPPP1.dgn

3/7/2022  
N:\Tallahassee\McCord\_Ditch\_Rehab\_VDCN\_VDR-SWPPP2.dgn



THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AN EROSION CONTROL PLAN BASED ON THEIR PROPOSED MEANS AND METHODS. THE ITEMS SHOWN ON THIS SHEET ARE INTENDED TO PROVIDE A GENERIC PLAN FOR CONTROLLING SEDIMENT ON THE WORK SITE.


ORIGINAL MAY 2019

REVISIONS:	1	
	2	
	3	
	4	
	5	

**STORMWATER POLLUTION PREVENTION PLAN LAYOUT & TREE PROTECTION/REMOVAL PLAN**

**MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT**

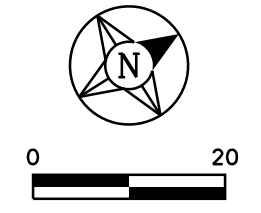
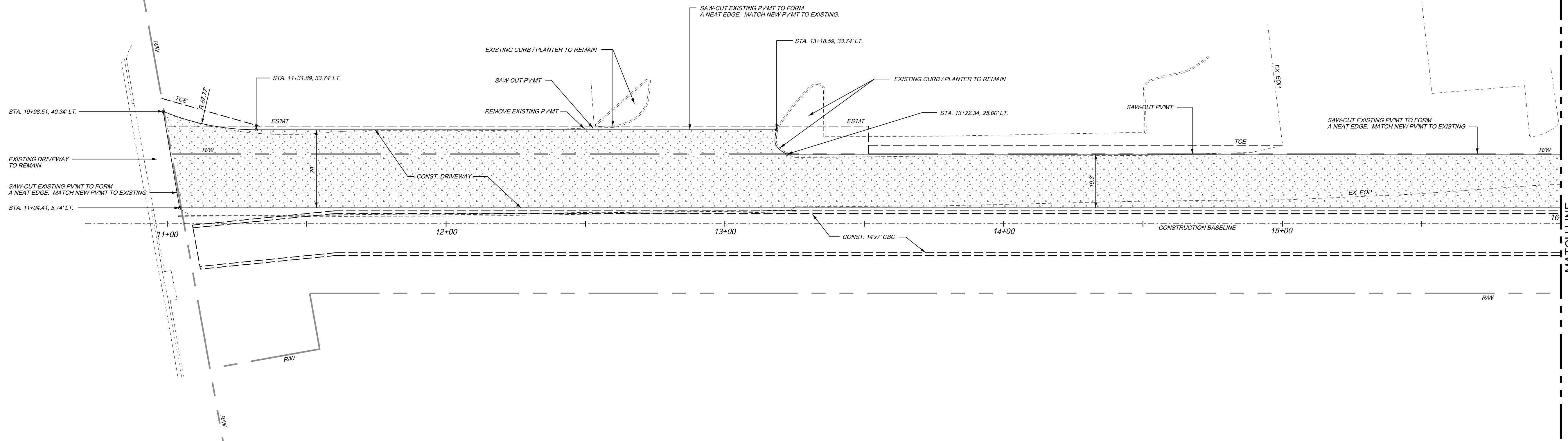
**SINGHOFFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Oriongrove Street, Suite 100  
 Orlando, Florida 32817  
 P: (407) 679-3001  
 F: (407) 679-2691  
 DBPR No. 5112



JOB NO. 2014-039.10  
 DRAWN AFD/BJG  
 DESIGNED RBG  
 CHECKED RBG  
 QC RBG

**SHEET 23**

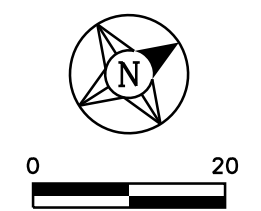
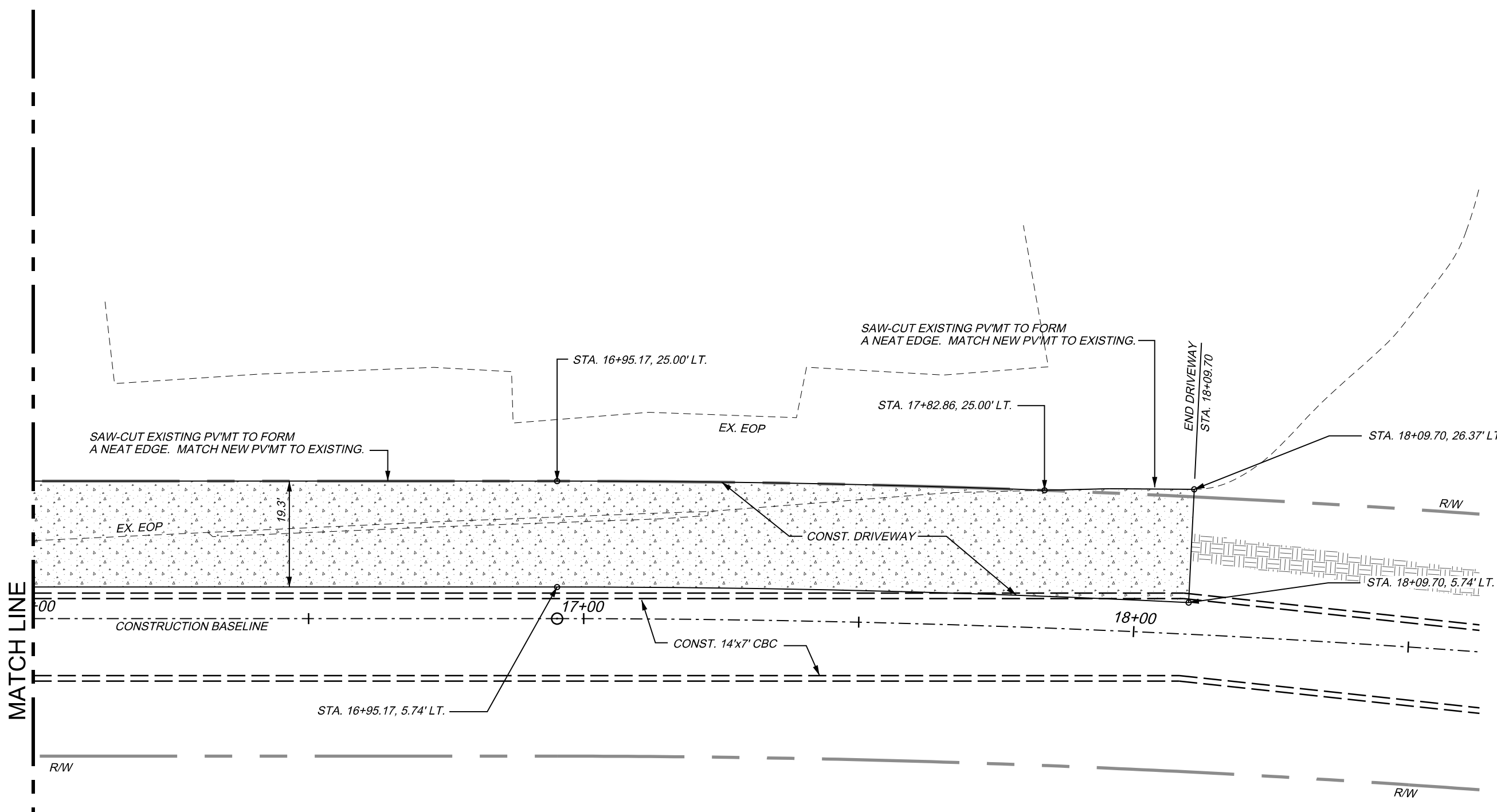
- ENTRANCE DRIVE PAVING NOTES:**
- MATCH EXISTING CONC. DRIVEWAY WIDTH AT STA. 10+95.51.
  - TRANSITION TO 28' WIDE PAVEMENT FROM STA. 10+95.51 TO STA. 11+31.89
  - 28' WIDE PAVEMENT FROM STA. 11+31.89 TO 13+16.20
  - TRANSITION 28' TO 19.3' STA. 13+16.20 TO 13+22.34
  - 19.3' PAVEMENT FROM STA. 13+22.34 TO 14+67.68
  - SAW-CUT & MATCH EXISTING PAVEMENT @ R/W FROM STA. 14+67.68 TO 17+82.86
  - MATCH EXISTING PAVEMENT FROM STA. 17+82.86 TO STA. 18+09.73



ORIGINAL: MAY 2019

REVISIONS:	DATE	DESCRIPTION
1		
2		
3		
4		
5		


**PAVEMENT RESTORATION PLAN**



**MCCORD POND DRAINAGE DITCH IMPROVEMENTS PROJECT**

3/7/2022 N:\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-PavementRestoration.dgn

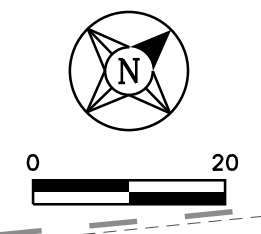
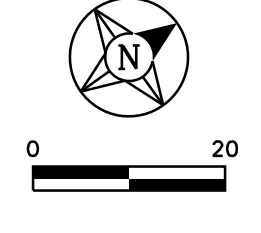
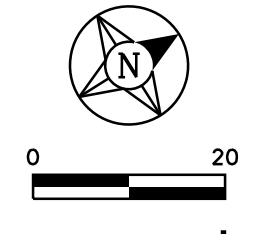
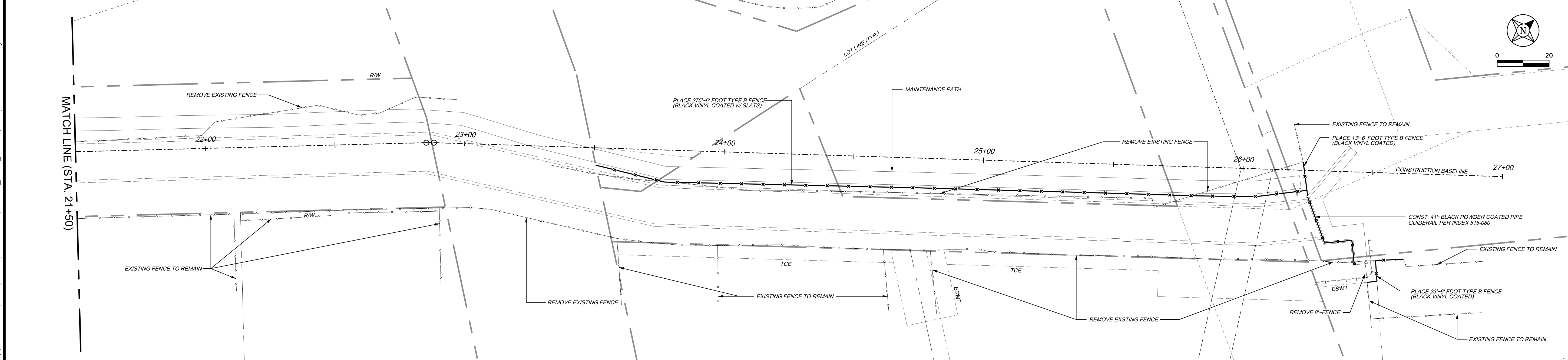
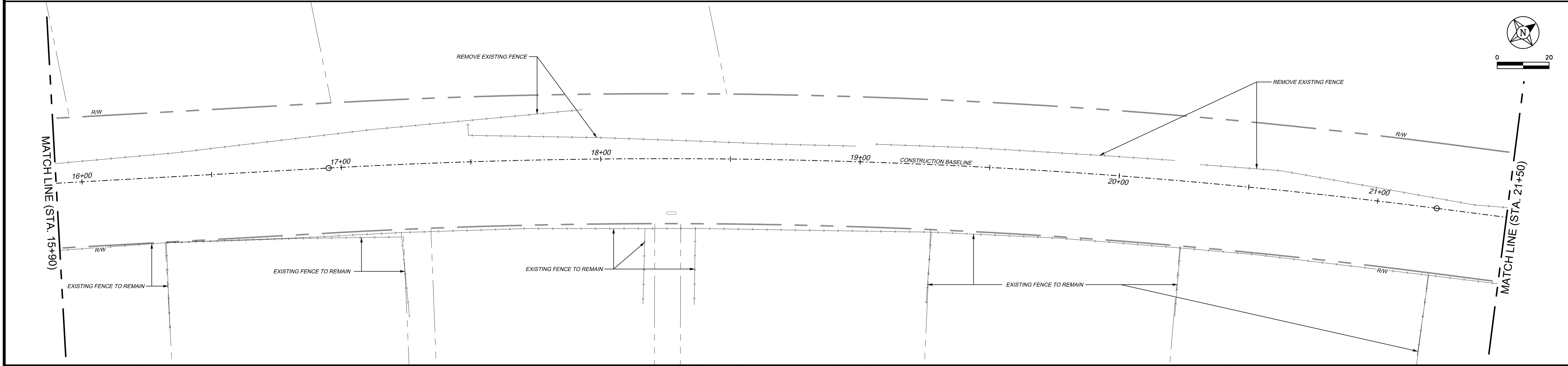
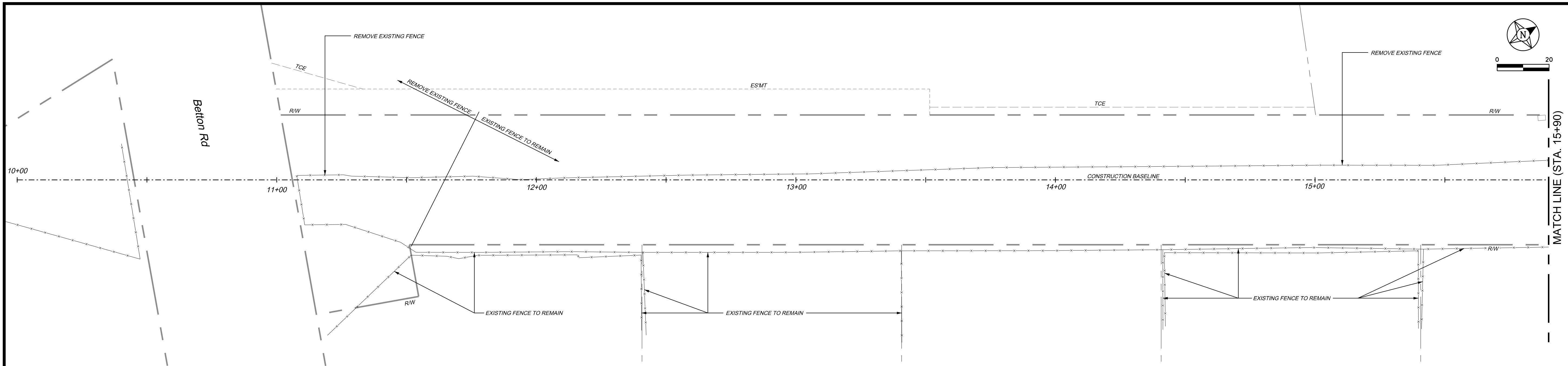
**SINGHOFEN & ASSOCIATES, INC.**  
 STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
 11723 Springdale Street, Suite 100  
 Orlando, FL 32817  
 Ph: (407) 679-3001  
 Fax: (407) 679-2691  
 DBPR No. 5112



JOB NO. 2014-039.10  
 DRAWN: AFD/BJG  
 DESIGNED: RBG  
 CHECKED: RBG  
 QC: RBG



3/7/2022  
\\S:\SERVER\DATA\driven\Tallahassee\McCord\_Ditch\_Rehab\DCM\WDR-FencePlan.dgn



ORIGINAL: MAY 2019

REVISIONS:	DATE	BY
1		
2		
3		
4		
5		

**FENCE PLAN**

**PROJECT**

**MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT**

**SINGHOFFEN & ASSOCIATES, INC.**  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Springdale Street, Suite 100  
Orlando, FL 32817  
PH: (407) 679-3001  
FAX: (407) 679-2691  
DBPR No. 5112



JOB NO. 2014-039.10  
DRAWN: AFD/BJG  
DESIGNED: RBG  
CHECKED: RBG  
QC: RBG

**SHEET 25**

3/7/2022  
NK\Tallahassee\McCord\_Ditch\_Rehab\DCN\MDR-Traffic.dgn



Signature \_\_\_\_\_  
Date \_\_\_\_\_

ORIGINAL \_\_\_\_\_ MAY 2019

REVISIONS:

1	
2	
3	
4	
5	

**TRAFFIC CONTROL PLAN**

**MCCORD POND  
DRAINAGE DITCH  
IMPROVEMENTS  
PROJECT**

**SINGHOFEN & ASSOCIATES, INC.**  
STORMWATER MANAGEMENT AND CIVIL ENGINEERING  
11723 Ophirglen Street, Suite 100  
Orlando, FL 32817  
Ph: (407) 679-3001  
Fax: (407) 679-2691  
DBPR No. 5112



JOB NO. 2014-039.10  
DRAWN AFD/BJG  
DESIGNED RBG  
CHECKED RBG  
OC RBG

ABBREVIATIONS

* INCH, INCHES	FCJ FLOOR CONTROL JOINT	OPP OPPOSITE
# NUMBER OR POUNDS	FON FOUNDATION	OPP HD OPPOSITE HAND
% PERCENT	FPE FINISHED FLOOR ELEVATION	OPT OPTIONAL
& AND	FL FILLET	OWJ OPEN WEB JOIST
' FOOT, FEET	FN FINISH, FINISHED	
= EQUAL	FLG FLANGE	PC PRECAST CONCRETE
° DEGREE	FLI FERRULE LOOP INSERT	PCF POUNDS PER CUBIC FOOT
± PLUS OR MINUS	FLR FLOOR	PDF POWER DRIVEN FASTENERS
Ø DIAMETER	FMB FACE OF BRICK	PEN PENETRATION
	FMC FACE OF CONCRETE	PERM PERIMETER
AB ANCHOR BOLT	FOM FACE OF MASONRY	PERP PERPENDICULAR
ACI AMERICAN CONCRETE INSTITUTE	FOS FACE OF STUD	PHE PARTIAL HEIGHT WALL
ADD ADDENDUM	FOW FACE OF WALL	PJP PARTIAL JOINT PENETRATION
ADOL ADDITIONAL	FRMG FRAMING	PL PLATE
ADH ADHESIVE	FSR SIZE	PLF POUNDS PER LINEAL FOOT
ADJ ADJACENT	FT FOOT, FEET	PLWD PLUWOOD
AFF ABOVE FINISHED FLOOR	FTG FOOTING	PP PARTIAL PENETRATION
AHU AIR HANDLING UNIT	GA GAUGE	PREFAB PREFABRICATED
ASC AMERICAN INSTITUTE OF STEEL CONSTRUCTION	GAZ GALVANIZED	PRELIM PRELIMINARY
ALT ALTERNATE	GB GENERAL CONTRACTOR	PRESTR PRESTRESSED
ANCH ANCHOR, ANCHORAGE	GC GENERAL CONTRACTOR	PSC PRESTRESSED CONCRETE
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	GLB GLUE LAMINATED BEAM	PSF POUNDS PER SQUARE FOOT
APPROX APPROXIMATE	GPL GUSSET PLATE	PSI POUNDS PER SQUARE INCH
AR ANCHOR ROD	GR GRADE, GRADING	PT POINT
ARCH ARCHITECT, ARCHITECTURAL	GWB GYPSUM WALL BOARD	PTC POST TENSION CONCRETE
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS	HAS HEADED ANCHOR STUD	PT PRESSURE TREATED TIMBER
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS	HCP HOLLOW CORE PLANK	PVC POLYVINYL CHLORIDE
ATR ALL THREADED ROD	HCS HOLLOW CORE SLAB	
AWS AMERICAN WELDING INSTITUTE	HOG HOT DIPPED GALVANIZED	R RADIUS
	HOR HEADER	RC REINFORCED CONCRETE
	HWR HANGER	REF REFER TO
	HM HOLLOW METAL	REF REFERENCE
	HORIZ, H HORIZONTAL	RENF REINFORCED, (ING), (MENT)
	HP HIGH POINT OR BEARING PILE	REQ REQUIRED
BAL BALANCE	HSB HIGH STRENGTH BOLT	RET RETAINING
BXC BOTTOM CHORD EXTENSION	HSS HOLLOW STRUCTURAL SECTION	REV REVISION, REVISED
BF BRACED FRAME	HT HEIGHT	RJ RESTRICTION JOINT
BLDG BUILDING	HVAC HEATING/VENTILATION/AIR CONDITIONING	RO ROUGH OPENING
BLDG BEAM		RTU ROOF TOP UNIT
BDD BOTTOM OF DECK		
BOF BOTTOM OF FOOTING, FOUNDATION	IBC INTERNATIONAL BUILDING CODE	S AMERICAN STANDARD SHAPE
BOS BOTTOM OF STEEL	ICBO INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	SC SLIP CRITICAL
BP, B BOTTOM	ICC-ES ICC EVALUATION SERVICE	SCH, SCHED SCHEDULE
BR BRANCH	ICM INSULATED CONCRETE MASONRY UNIT	SEC SECURITY
BRB BRUCKING RESTRAINT	ID INSIDE DIAMETER	SECT SECTION
BRACE BRG BEARING	IF INSIDE FACE	SF SQUARE FOOT
BS BOTH SIDES	IJ ISOLATION JOINT	SHT SHEET
BSMT BASEMENT	IN INCH, INCHES	SHTG SHEATHING
BWN BETWEEN	INCL INCLUDED, INCLUDING	SM SIMILAR
	INFO INFORMATION	SOG SLAB ON GRADE
(c) COLLECTOR	INSUL INSULATION	SP SPACE(S)
C CAMBER OR CHANNEL	INT INTERIOR	SPAC SPACING
C/C CENTER TO CENTER	INTV INVERT	SPEC SPECIFICATION
C-GROUT COURSE GROUT		INFO INFORMATION
CANT CANTILEVER		INSUL INSULATION
CF CUBIC FOOT, FEET		INTV INVERT
CFP CAST-IN-PLACE CONTROL JOINT		INTV INVERT
CJ COMPLETE JOINT PENETRATION		INTV INVERT
CL, Ē CENTERLINE		INTV INVERT
CLR CLEAR, CLEARANCE		INTV INVERT
CMU CONCRETE MASONRY UNIT		INTV INVERT
COL COLUMN		INTV INVERT
COMP COMPOSITE OR COMPRESSION		INTV INVERT
CONC CONCRETE		INTV INVERT
CONFG CONFIGURATION		INTV INVERT
CONN CONNECTION		INTV INVERT
CONST CONSTRUCTION		INTV INVERT
CONT CONTINUOUS		INTV INVERT
CONTR CONTRACTOR		INTV INVERT
COORD COORDINATE		INTV INVERT
CRSI CONCRETE REINFORCING STEEL INSTITUTE		INTV INVERT
CTR CENTER, CENTERED		INTV INVERT
CU CUBIC		INTV INVERT
CW CURTAIN WALL		INTV INVERT
CY CUBIC YARD		INTV INVERT
d PENNY (NAIL)		INTV INVERT
DBA DEFORMED BAR ANCHOR		INTV INVERT
DBL DOUBLE		INTV INVERT
DC DEMAND CRITICAL		INTV INVERT
DEG, ° DEGREE		INTV INVERT
DEMO DEMOLISH, DEMOLITION		INTV INVERT
Ø DIA DIAMETER		INTV INVERT
DMG DIAGONAL		INTV INVERT
DWPH DWAPRACH		INTV INVERT
DM DIMENSION		INTV INVERT
DISC DISCONTINUE, DISCONTINUOUS		INTV INVERT
DL DEAD LOAD		INTV INVERT
DN DOWN		INTV INVERT
DO DITTO		INTV INVERT
DP, D DEEP, DEPTH		INTV INVERT
DTL DETAIL		INTV INVERT
DWG, DWGS DRAWING, DRAWINGS		INTV INVERT
DWL, DWLS DOWEL, DOWELS		INTV INVERT
EA EACH		INTV INVERT
EB EXPANSION BOLT		INTV INVERT
EE EACH END		INTV INVERT
EF EACH FACE		INTV INVERT
EJ EXPANSION JOINT		INTV INVERT
EL ELEVATION		INTV INVERT
ELEC, ELECT ELECTRICAL		INTV INVERT
ELV ELEVATOR		INTV INVERT
EMBED EMBEDMENT, EMBEDDED		INTV INVERT
ENR ENGINEER		INTV INVERT
EDD EDGE OF DECK		INTV INVERT
EDS EDGE OF SLAB		INTV INVERT
EQ EQUAL		INTV INVERT
EQP, EQUIP EQUIPMENT		INTV INVERT
ES EACH SIDE		INTV INVERT
EW EACH WAY		INTV INVERT
EXIST, (E) EXISTING		INTV INVERT
EXP EXPANSION		INTV INVERT
EXT EXTERIOR		INTV INVERT
F-GROUT FINE GROUT		INTV INVERT
FAB FABRICATE		INTV INVERT
FB FLAT BAR		INTV INVERT
FBC FLORIDA BUILDING CODE		INTV INVERT

STRUCTURAL GENERAL NOTES

- LIST OF SHEETS**

SW0.1	STRUCTURAL GENERAL NOTES	02/15/2022
SW0.2	OVERALL STRUCTURE LOCATION PLAN	02/15/2022
SW1.1	BOX CULVERT CONNECTION PLAN, ELEVATION, & SECTION	02/15/2022
SW1.2	ENDWALL PLAN & PROFILE	02/15/2022
SW1.3	ENDWALL SECTIONS & DETAILS	02/15/2022
SW2.1	TEMPORARY SOLDIER PILE WALL PLAN & DETAILS	02/15/2022
- GENERAL NOTES**
  - THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE 6TH EDITION (2017) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FY 2019-2020 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2020 EDITION. THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT. UNLESS OTHERWISE NOTED, ALL WORK AND MATERIALS SHALL CONFORM WITH THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
  - THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS, DIMENSIONS, AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS. USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES OR FIELD CONDITIONS ENCOUNTERED IN CONFLICT WITH THE DRAWINGS IN WRITING TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE ENGINEER OF RECORD.
  - THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OF ERECTION BRACINGS, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ALL MEASURES TO LIMIT THE SIZE OF WORK ZONE AND PROVIDE A SAFE WORKING ENVIRONMENT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - DETAILS LABELED AS "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYS IN AT EACH LOCATION.
  - THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE GENERAL PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION PERSONNEL RELATED TO THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.
- SOIL PROPERTIES & SUPERIMPOSED LOADS FOR FINAL STRUCTURES**

MOIST UNIT WEIGHT	= 115 PCF
ANGLE OF INTERNAL FRICTION	= 30 DEGREES
ACTIVE PRESSURE COEF.	= 0.33
PASSIVE PRESSURE COEF.	= 3.00
COHESION	= 0 PSF
SURCHARGE	= 150 PSF
- SOIL PROPERTIES & SUPERIMPOSED LOADS FOR SOLDIER PILE WALL**

FROM 0' - 12'	
MOIST UNIT WEIGHT	= 115 PCF
ANGLE OF INTERNAL FRICTION	= 28 DEGREES
ACTIVE PRESSURE COEF.	= 0.36
PASSIVE PRESSURE COEF.	= 2.77
COHESION	= 0 PSF
FROM 12' ±	
MOIST UNIT WEIGHT	= 118 PCF
ANGLE OF INTERNAL FRICTION	= 29 DEGREES
ACTIVE PRESSURE COEF.	= 0.35
PASSIVE PRESSURE COEF.	= 2.88
COHESION	= 0 PSF
SURCHARGE	= 0 PSF

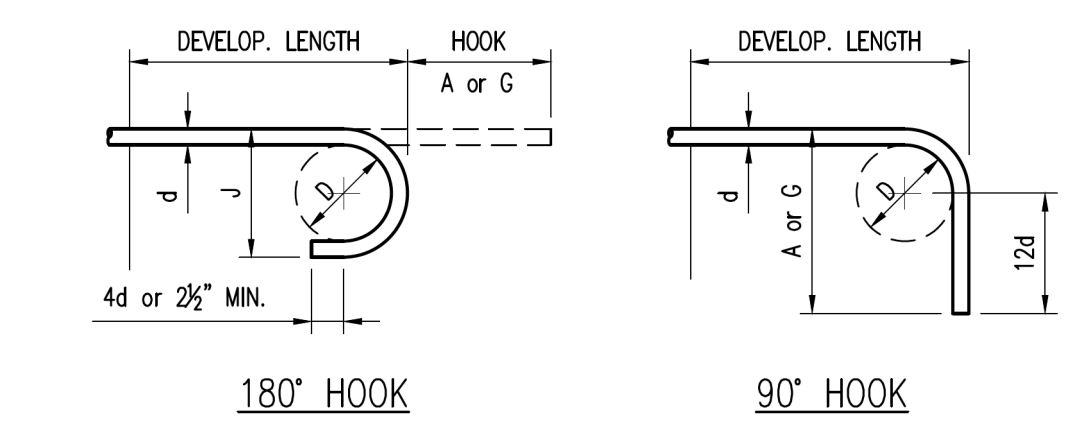
9. CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JANUARY 2020 EDITION.
- PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF:
 

FOOTINGS	5,500 PSI	NW	FDOT CLASS IV (TYPE 1C)
RETAINING WALLS	5,500 PSI	NW	FDOT CLASS IV (TYPE 1C)
ELEVATED SLAB	5,500 PSI	NW	FDOT CLASS IV (TYPE 1C)
- ALL CONCRETE SHALL BE NORMAL WEIGHT (NW), U.O.N.
- CONTRACTOR SHALL MAKE SETS OF FOUR ACCEPTANCE CYLINDERS FOR STRENGTH TESTING FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED. CYLINDERS SHALL BE MADE IN ACCORDANCE WITH ASTM C31 AND C172. TESTING SHALL BE PERFORMED BY AN ACI CERTIFIED TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF ANY TEST NOT MEETING THE REQUIREMENTS OF THE SPECIFIED TESTS. COPIES OF REPORTS DOCUMENTING THE TEST RESULTS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE AVAILABLE UPON REQUEST.
- PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING AS SHOWN IN THE PROVIDED REBAR LAP SPLICE LENGTHS TABLE. FOR CONCRETE COMPRESSIVE STRENGTHS OTHER THAN THOSE IN THE TABLES, LENGTHS ASSOCIATED WITH THE FIRST COMPRESSIVE STRENGTH LOWER THAN THE SPECIFIED ONE SHALL BE USED.
- UNLESS OTHERWISE NOTED, PROVIDE COVER OVER REINFORCING STEEL PER THE 'FOOT STRUCTURES DESIGN GUIDELINES - TABLE 1.4.2-1 CONCRETE COVER'.
- CURE ALL CONCRETE SURFACES FOR A PERIOD OF SEVEN DAYS UNTIL AVERAGE COMPRESSIVE STRENGTH HAS REACHED 70% OF THE SPECIFIED 28 DAY STRENGTH. CURING SHALL BE BY PONDING, MOIST CURING WITH SAND OR ABSORPTIVE MATS KEPT CONTINUOUSLY WET, CONTINUOUS APPLICATION OF STEAM (NOT EXCEEDING 105° F) OR MIST SPRAY, WATERPROOF CURING PAPER, OR LIQUID MEMBRANE FORMING CURING COMPOUND. SELECTION OF CURING METHOD SHALL BE COMPATIBLE WITH THE FINISH TO BE APPLIED TO THE CONCRETE SURFACE.
- PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.

BAR SIZE	f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	16"	21"	14"	18"	13"	17"
#4	22"	28"	19"	25"	17"	22"
#5	27"	36"	24"	31"	21"	28"
#6	33"	43"	28"	37"	25"	33"
#7	48"	62"	42"	54"	37"	48"
#8	55"	71"	47"	62"	42"	55"
#9	62"	80"	54"	70"	48"	62"
#10	70"	90"	60"	78"	54"	70"
#11	77"	100"	67"	87"	60"	78"

- REBAR LAP SPLICE NOTES:
- CLASS B SPLICES SHALL BE PROVIDED FOR ALL COLUMN REINFORCING STEEL.
  - CLASS A SPLICES ARE ALLOWED FOR CONTINUOUS REINFORCING STEEL IF NO MORE THAN 50% OF THE STEEL IS LAPPED AT THE SAME LOCATION.



BAR SIZE	STD. HOOK DIMENSIONS				DEVELOP. LENGTHS		
	PIN DIAM. D	180° HOOK A or G	90° HOOK J	90° HOOK A or G	CONC. COMPRESSIVE STRENGTH		
#3	2 1/4"	0'-5"	0'-3"	0'-6"	3,000 PSI	4,000 PSI	5,000 PSI
#4	3"	0'-6"	0'-4"	0'-8"	6"	7"	6"
#5	3 3/4"	0'-7"	0'-5"	0'-10"	8"	9"	8"
#6	4 1/2"	0'-8"	0'-6"	1'-0"	10"	10"	9"
#7	5 1/4"	0'-10"	0'-7"	1'-2"	12"	12"	11"
#8	6"	0'-11"	0'-8"	1'-4"	14"	14"	12"
#9	9 1/4"	1'-3"	0'-11 1/4"	1'-8"	16"	15"	14"
#10	10 3/4"	1'-5"	1'-10"	1'-10"	17"	17"	15"
#11	12"	1'-7"	1'-2 3/4"	2'-1"	19"	19"	17"

- REBAR STANDARD HOOK NOTES:
- D = FINISHED BEND DIAMETERS.
  - REFER TO ACI 315 FOR ALTERNATE BEND PATTERN DIMENSIONS AND REQUIREMENTS.
  - ASTM A767 REQUIRES THAT BARS BENT COLD PRIOR TO HOT DIP GALVANIZING MUST BE FABRICATED TO A MINIMUM BEND DIAMETER EQUAL TO 7 INCHES FOR #7 BAR AND 8 INCHES FOR #8 BAR.

- CHEMICAL ADHESIVES FOR ANCHOR BOLTS AND RODS**
  - USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAWL POWER-FAST SYSTEM, HILTI HIT HY200, ITW RAMSEY/RED HEAD EPOX A7 OR C6 INJECTION SYSTEM, ALLIED FASTENER ALLIED GOLF A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
  - CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4 INCH DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
  - DRILL 1/8 INCH LARGER DIAMETER HOLE THAN ANCHOR BOLT AND 1/8 INCH LARGER HOLE THAN REINFORCING BAR. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY, U.O.N. BY THE MANUFACTURER'S SPECIFICATIONS.
  - PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
  - THREADED RODS ARE A36 GALVANIZED STEEL, U.O.N.
- HOT DIP GALVANIZATION**
  - ALL STRUCTURAL STEEL EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED.
  - AFTER FABRICATION, STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123 TO A MINIMUM THICKNESS OF 3.9 MILS.
  - NO FIELD DRILLING, CUTTING, WELDING, OR OTHER ADJUSTMENTS WILL BE PERMITTED AFTER HOT DIP GALVANIZING.
  - TOUCH UP ANY DAMAGE TO GALVANIZED SURFACES WITH TWO COATS OF ZINC BASED TOUCH UP COATING SIMILAR TO ZRC COLD GALVANIZING COMPOUND MANUFACTURED BY ZRC WORLDWIDE.

5. TEMPORARY SOLDIER PILE WALL

- HOT-ROLLED STEEL SOLDIER PILES SHALL BE ASTM A992 WITH A MINIMUM YIELD STRENGTH (fy) = 50 KSI. STEEL PLATE SHALL BE ASTM A36 WITH A MINIMUM YIELD STRENGTH (fy) = 36 KSI.
- TIMBER LAGGING SHALL BE No. 2, SOUTHERN YELLOW PINE WITH THE FOLLOWING MINIMUM STRENGTH AND DESIGN REQUIREMENTS:
 

BENDING STRESS (Fb)	= 750 PSI
SHEAR PARALLEL TO GRAIN (Fv)	= 175 PSI
MODULUS OF ELASTICITY (E)	= 1,400,000 PSI
FLAT USE FACTOR (Cfu)	= 1.2
- DUE TO SOFT SOIL CONDITIONS AND THE RELATIVELY HIGH WATER TABLE, THE USE OF SLURRY DRILLING MAY BE REQUIRED TO PREVENT COLLAPSING OF THE HOLE DURING INSTALLATION OF THE PROPOSED SOLDIER PILES. THE CONTRACTOR SHALL INCLUDE ANY AND ALL NECESSARY CONSTRUCTION TECHNIQUES IN THE PRICING FOR INSTALLATION OF THE SOLDIER PILE WALL AS SHOWN.

6. WIND LOADING

- DESIGN CRITERIA PER ASCE 7-10 FOR INFORMATIONAL PURPOSES ONLY:
 

WIND SPEED (ULT/ASD)	= 120 MPH / 93 MPH
RISK CATEGORY	= II
WIND EXPOSURE CATEGORY	= B
ENCLOSURE CLASSIFICATION	= N/A

7. EARTHWORK FOR STRUCTURES

- FOUNDATION DESIGN, SOIL PREPARATION AND COMPACTION ARE BASED ON GEOTECHNICAL INVESTIGATION, DATA AND RECOMMENDATIONS IN FILE NO. 20-4475 BY ALPHA GEOTECHNICAL AND TESTING SERVICES, INC. DATED AUGUST 30, 2020 (REVISED SEPTEMBER 30, 2020). ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEOTECHNICAL REPORT TO PROVIDE AN ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF.
- UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, ALL SOIL BELOW FOOTINGS SHALL BE COMPACTED TO A DEPTH OF 12 INCHES AT OPTIMUM MOISTURE CONTENT TO 95% OF THE MODIFIED PROCTOR, ASTM D1557. FILL SHALL BE PLACED AND COMPACTED IN LIFTS NO GREATER THAN 12 INCHES.
- THE GEOTECHNICAL INVESTIGATION ENCOUNTERED WATER IS VARIOUS LOCATIONS OF PROPOSED STRUCTURE. THE CONTRACTOR SHALL DE-WATER AS REQ'D FOR PROPER COMPACTION AND INSTALLATION OF THE PROPOSED REINFORCED CONCRETE STRUCTURES.
- SUB-GRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT HAVE BEEN FOLLOWED.

8. FORMWORK

- DESIGN, ERECTION AND REMOVAL OF FORMWORK, AND SHORING AND RESHORING IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- CONSTRUCTION, ERECTION, AND REMOVAL OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 301 AND 347.



McCORD POND  
 Drainage Ditch Improvement Project  
 Tallahassee, Florida

Checked	B. Kever	Rev. 2
Checked	B. Kever	Rev. 3
Checked	B. Kever	Rev. 4

Structural  
General Notes

Brian E Kever  
2022.02.15  
09:45:26  
-05'00'

This item has been digitally signed and sealed by Brian E. Kever, P.E. on the date listed in the signature.  
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

SW0.1

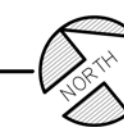


**KEVER | MCKEE  
ENGINEERING**  
1624 Metropolitan Blvd., Ste. A  
Tallahassee, Florida 32309  
Office: 850.727.5367  
Authorization No. 31293  
Brian E. Kever, P.E.  
Florida PE No. 65627



**STRUCTURE LOCATION PLAN**

SCALE: 1" = 80'



**McCORD POND  
Drainage Ditch Improvement Project  
Tallahassee, Florida**

UNLESS OTHERWISE NOTED, THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THE ENGINEER SHALL HOLD NO LIABILITY FOR NEGLIGENCE OR OTHER PROFESSIONAL NEGLIGENCE, INCLUDING THE COPYRIGHT THEREIN. ©2022/02/15/2022

Drawn	K. Sumner	Rev. 1
Checked	B. Kever	Rev. 2
Job Number	20188	Rev. 3
Date	02.15.2022	Rev. 4

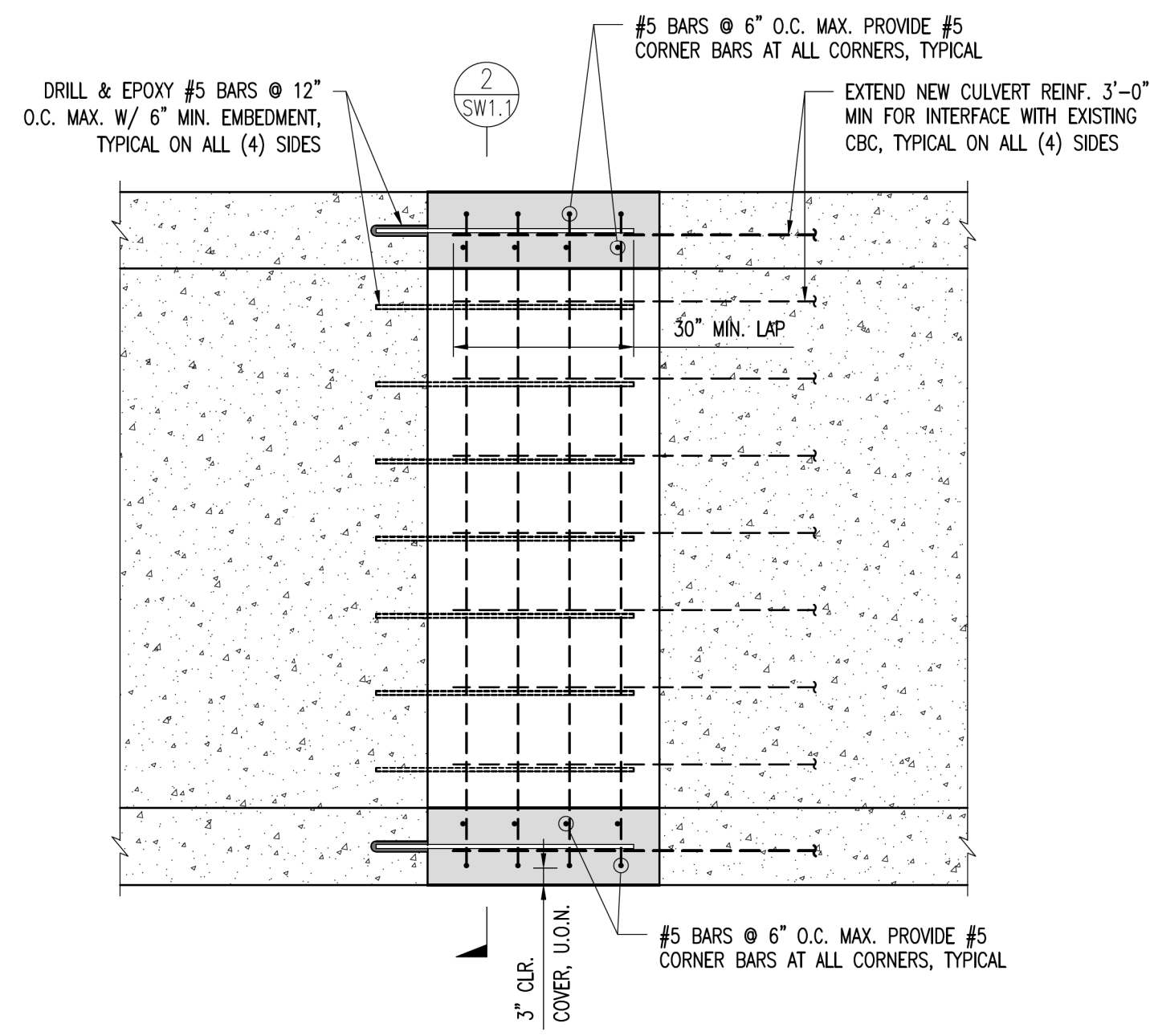
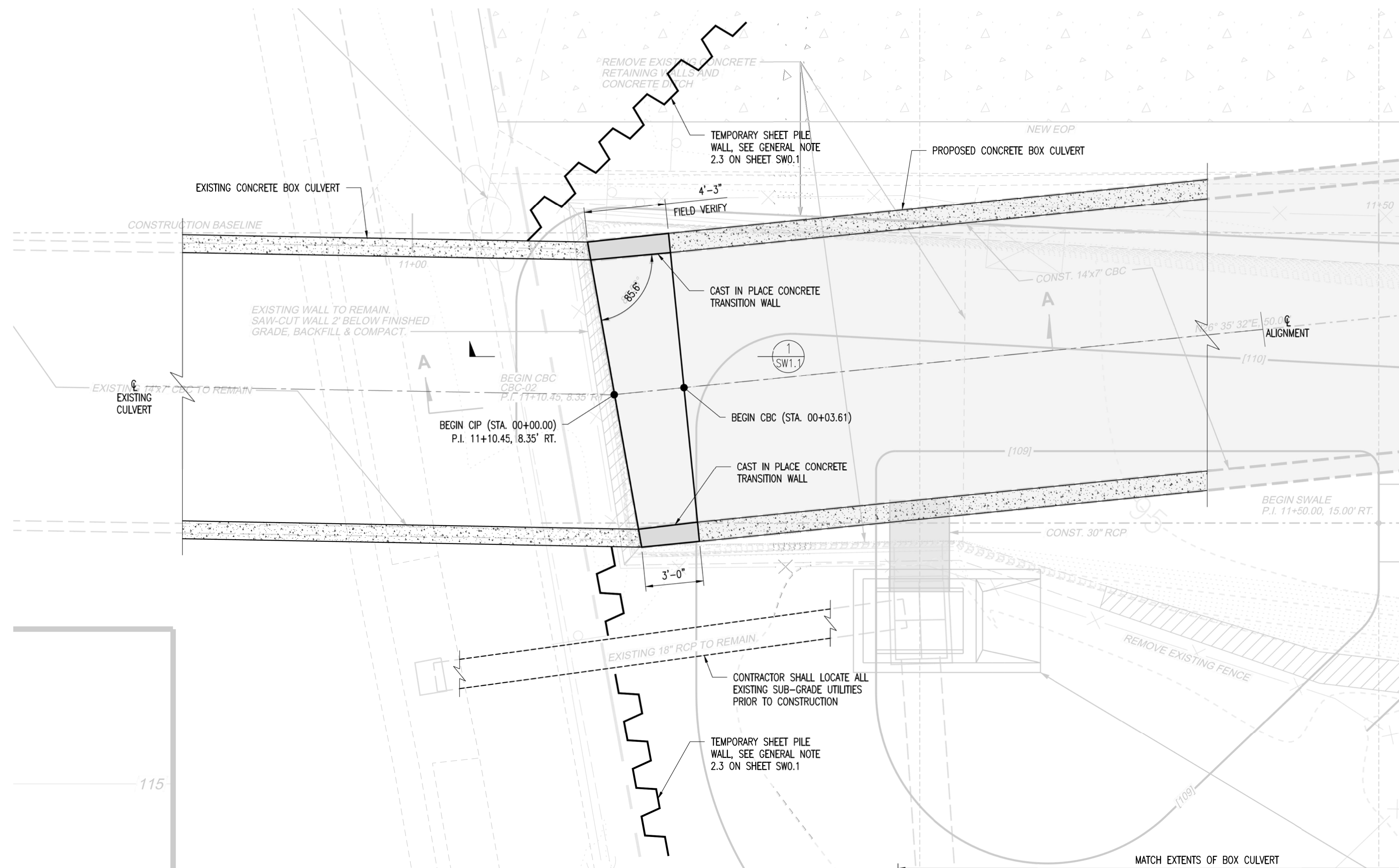
**Overall  
Structure  
Location Plan**



**Brian E Kever**  
2022.02.15  
09:47:51  
-05'00"

This item has been digitally signed and sealed by Brian E. Kever, P.E. on the date listed in the signature.  
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

**SW0.2**

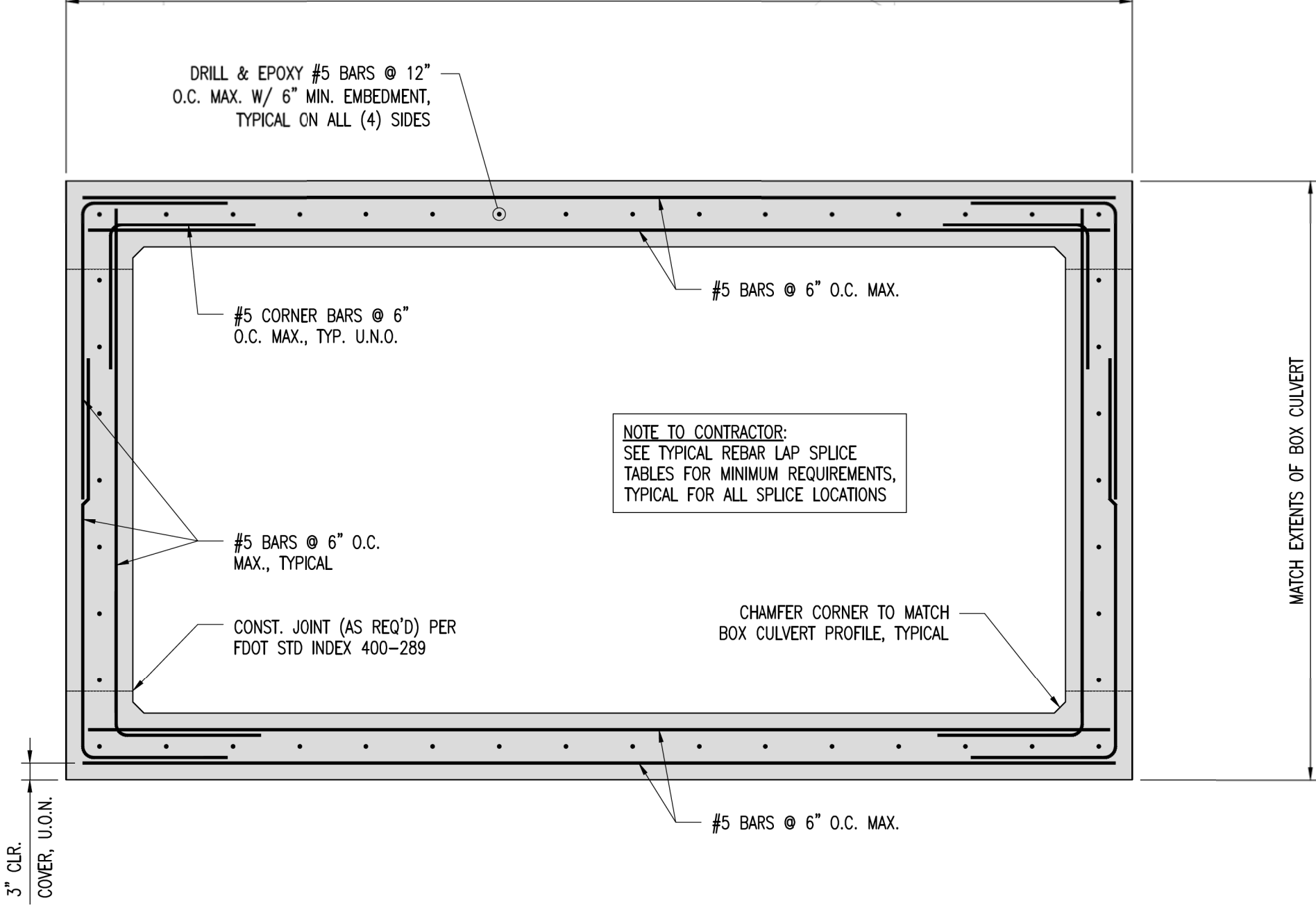


**BOX CULVERT CONNECTION ELEVATION 1**  
SCALE: 1/2" = 1'-0" SW1.1

**BOX CULVERT CONNECTION PLAN**  
SCALE: 1/4" = 1'-0"

MATERIAL QUANTITY ESTIMATE	
MATERIAL	
CONC.	REINF.
7.7 CY	1200 LBS

**NOTE:**  
THIS TABLE PROVIDES ESTIMATED QUANTITIES FOR BID PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING QUANTITIES PER REQUIREMENTS DETAILED IN THESE CONSTRUCTION DOCUMENTS. A 1.125 MULTIPLIER HAS BEEN APPLIED TO THESE TABULATED REINFORCED CONCRETE VALUES FOR CONSTRUCTION CONTINGENCY.



**BOX CULVERT CONNECTION SECTION 2**  
SCALE: 1/2" = 1'-0" SW1.1

**NOTES:**  
1. SEE SHEET SW0.1 FOR GENERAL NOTES RELATED TO CONSTRUCTION OF THE ENDWALL.

Brian E Kever  
2022.02.15  
09:59:27  
-05'00"

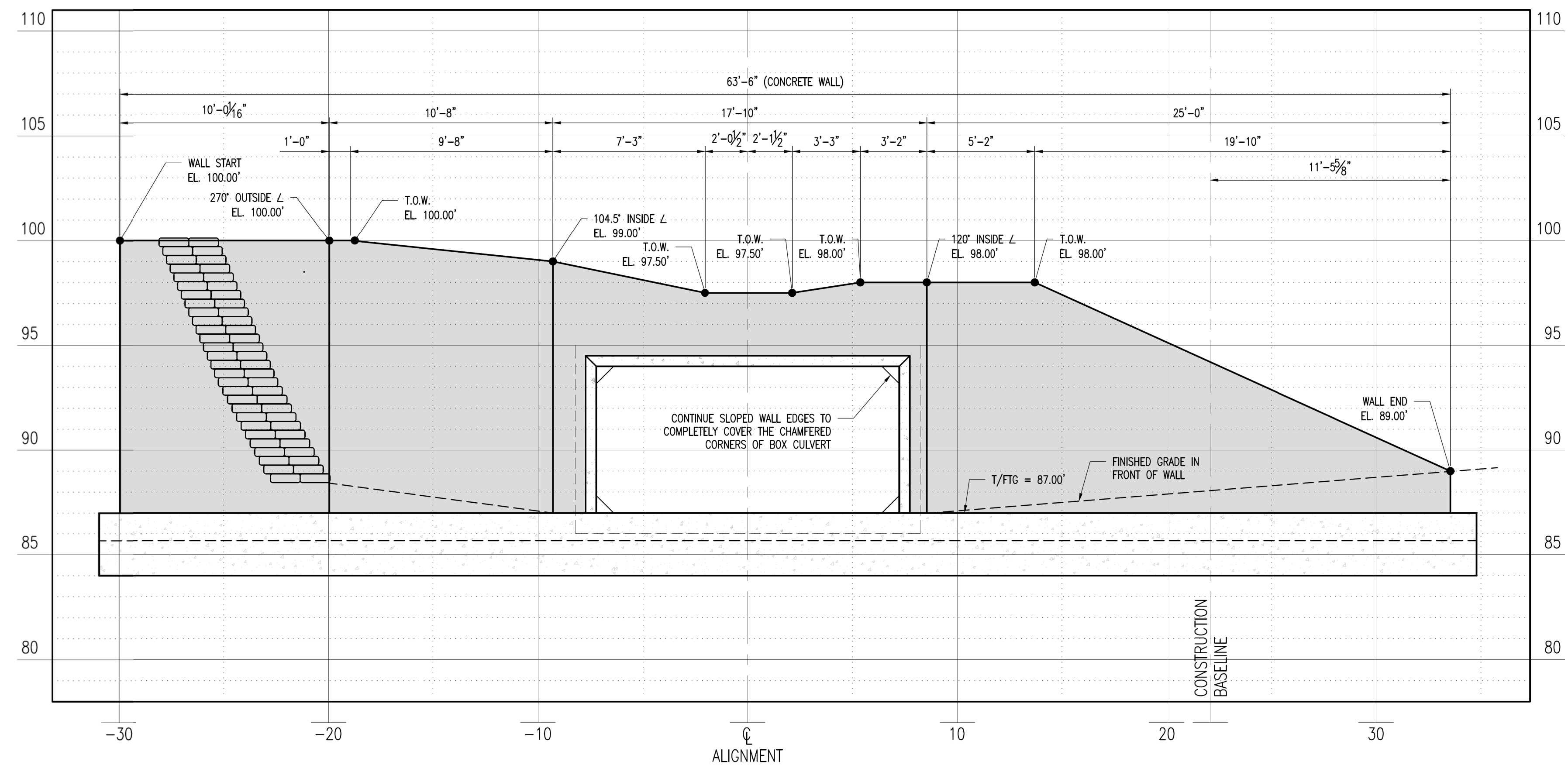
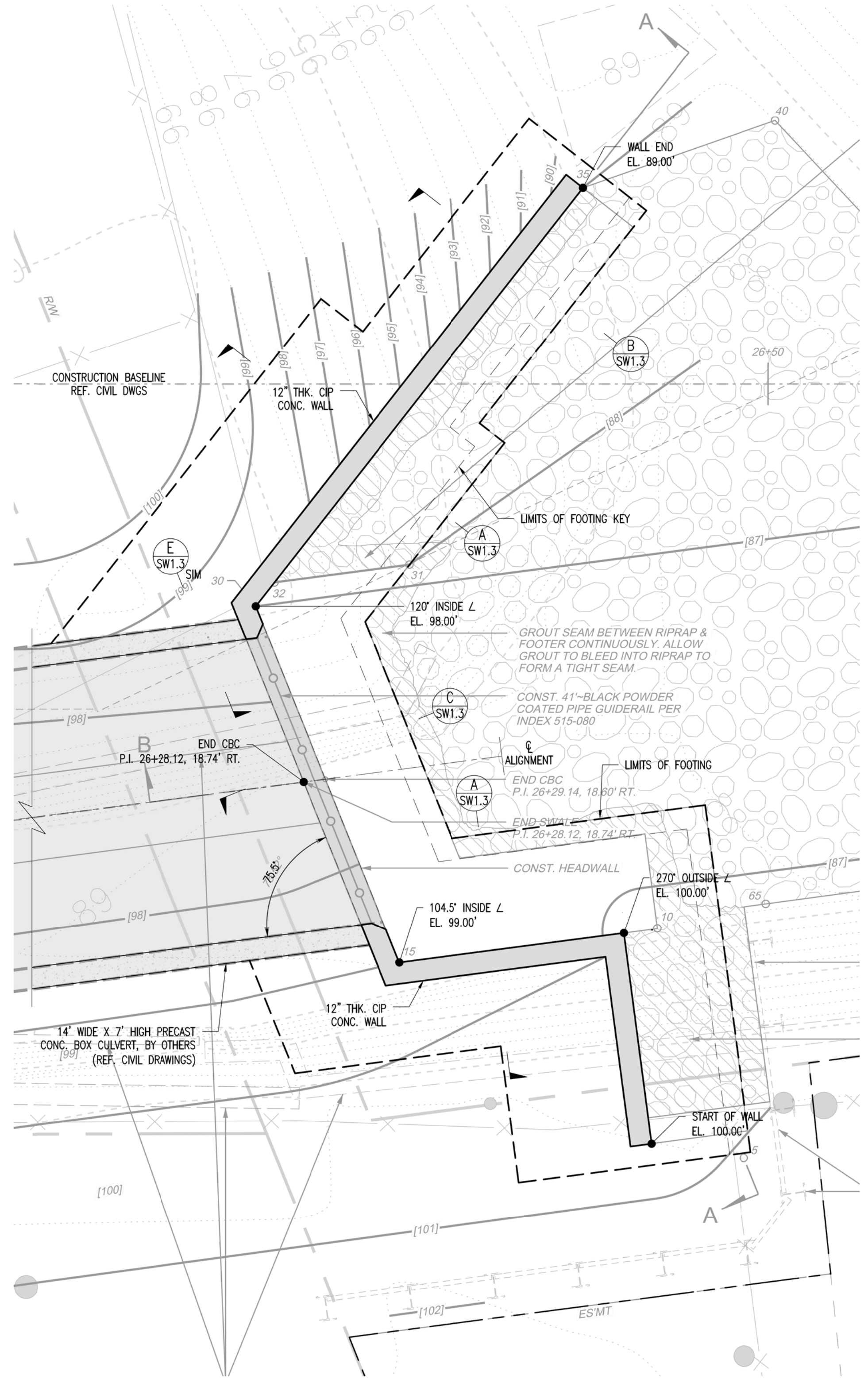
This item has been digitally signed and sealed by Brian E. Kever, P.E. on the date listed in the signature.  
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

**SW1.1**



**KEVER | MCKEE  
ENGINEERING**  
1624 Metropolitan Blvd., Ste. A  
Tallahassee, Florida 32308  
Office: 850.727.5367  
Authorization No. 31293  
Brian E. Keever, P.E.  
Florida PE No. 65627

**McCORD POND  
Drainage Ditch Improvement Project  
Tallahassee, Florida**

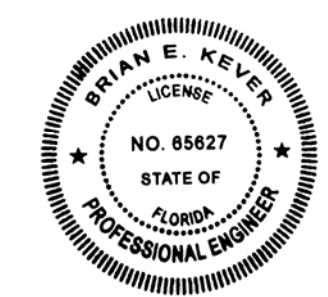


**ENDWALL PROFILE**  
SCALE: 1/4" = 1'-0"

MATERIAL QUANTITY ESTIMATE			
MATERIAL			
WALL CONC.	WALL REINF.	FOOTING CONC.	FOOTING REINF.
22.7 CY	3,100 LBS	41.2 CY	6,150 LBS

**NOTE:**  
THIS TABLE PROVIDES ESTIMATED QUANTITIES FOR BID PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING QUANTITIES PER REQUIREMENTS DETAILED IN THESE CONSTRUCTION DOCUMENTS. A 1.125 MULTIPLIER HAS BEEN APPLIED TO THESE TABULATED REINFORCED CONCRETE VALUES FOR CONSTRUCTION CONTINGENCY.

**Brian E Keever**  
2022.02.15  
10:04:51  
-05'00"



**NOTES:**  
1. DIMENSIONS SHOWN ARE MEASURED ALONG THE EXPOSED FACE OF ENDWALL.  
2. SEE SHEET SW0.1 FOR GENERAL NOTES RELATED TO CONSTRUCTION OF THE ENDWALL.

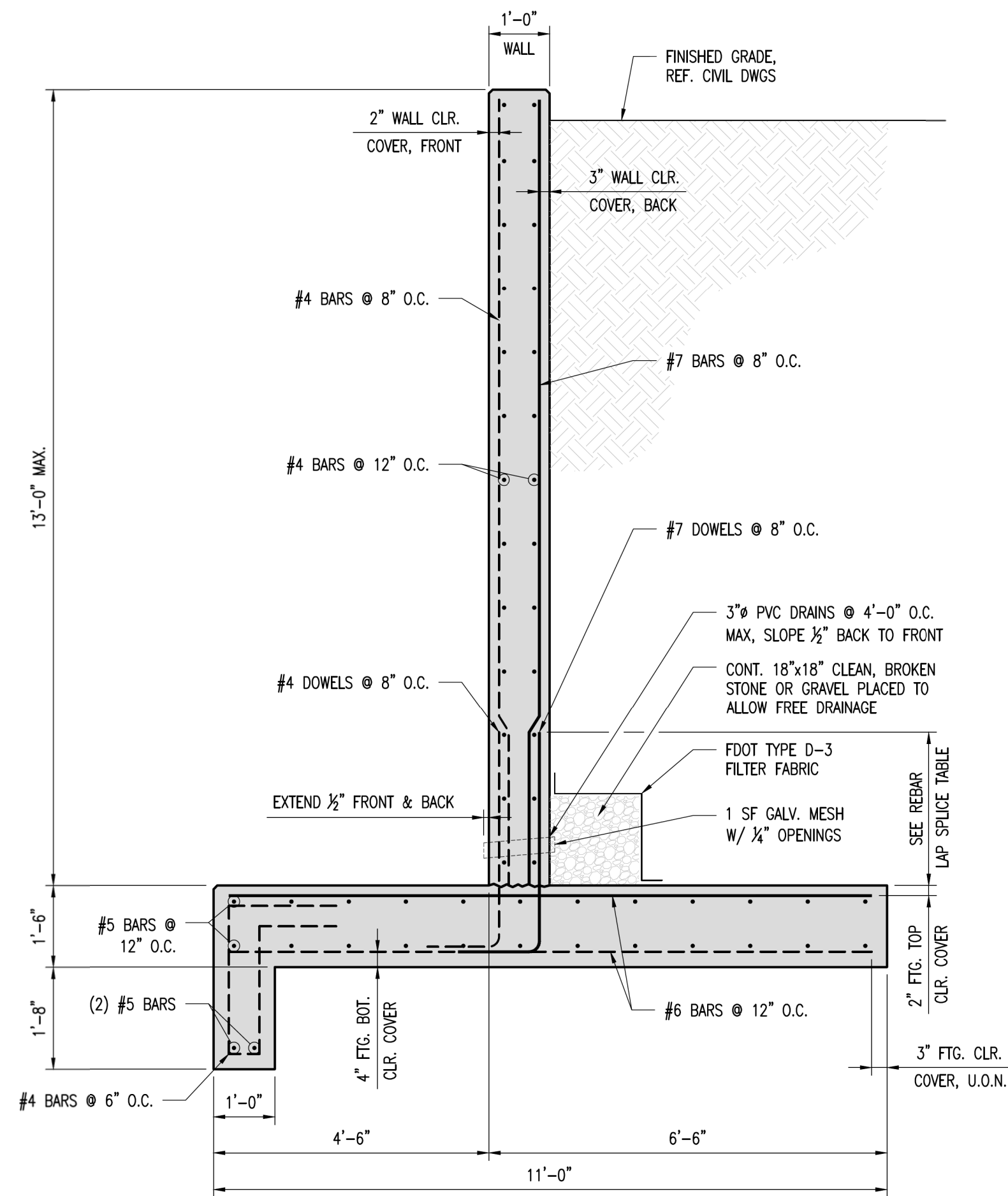
This item has been digitally signed and sealed by Brian E. Keever, P.E. on the date listed in the signature.  
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

**SW1.2**

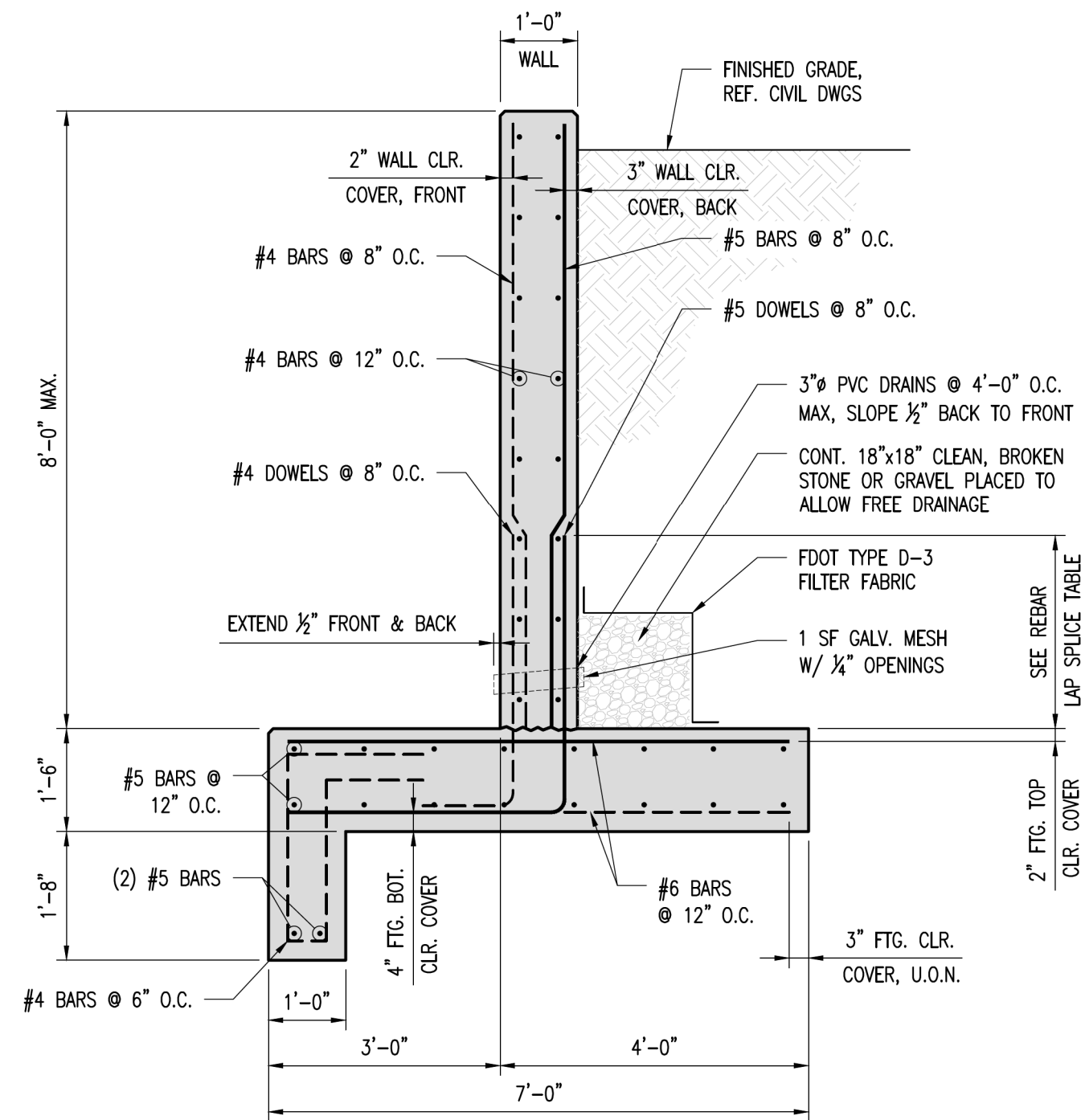


**KEVER | MCKEE**  
ENGINEERING  
1624 Metropolitan Blvd., Ste. A  
Tallahassee, Florida 32308  
Office: 850.727.5367  
Authorization No. 31293  
Brian E. Keever, P.E.  
Florida PE No. 65627

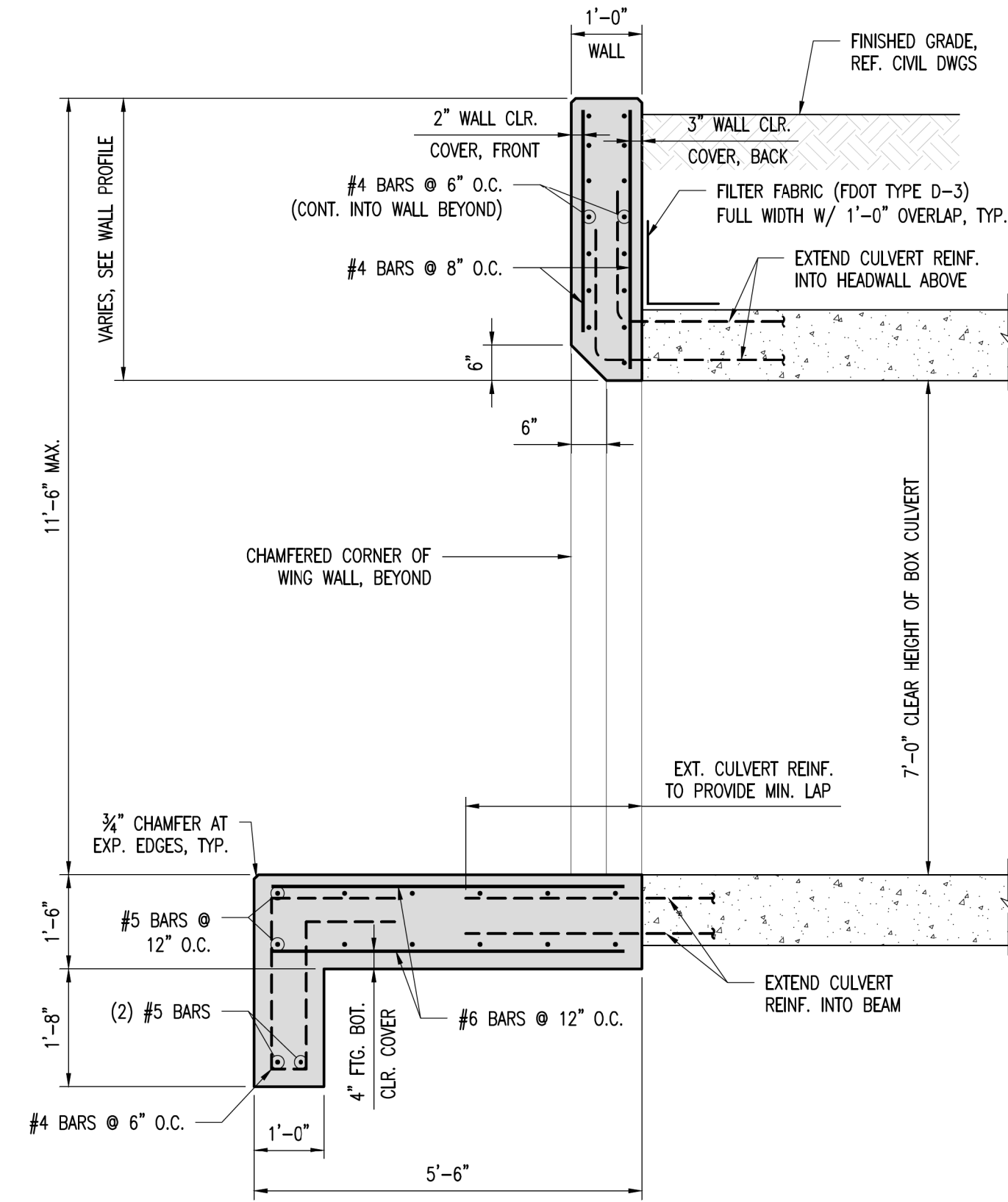
**McCORD POND**  
Drainage Ditch Improvement Project  
Tallahassee, Florida



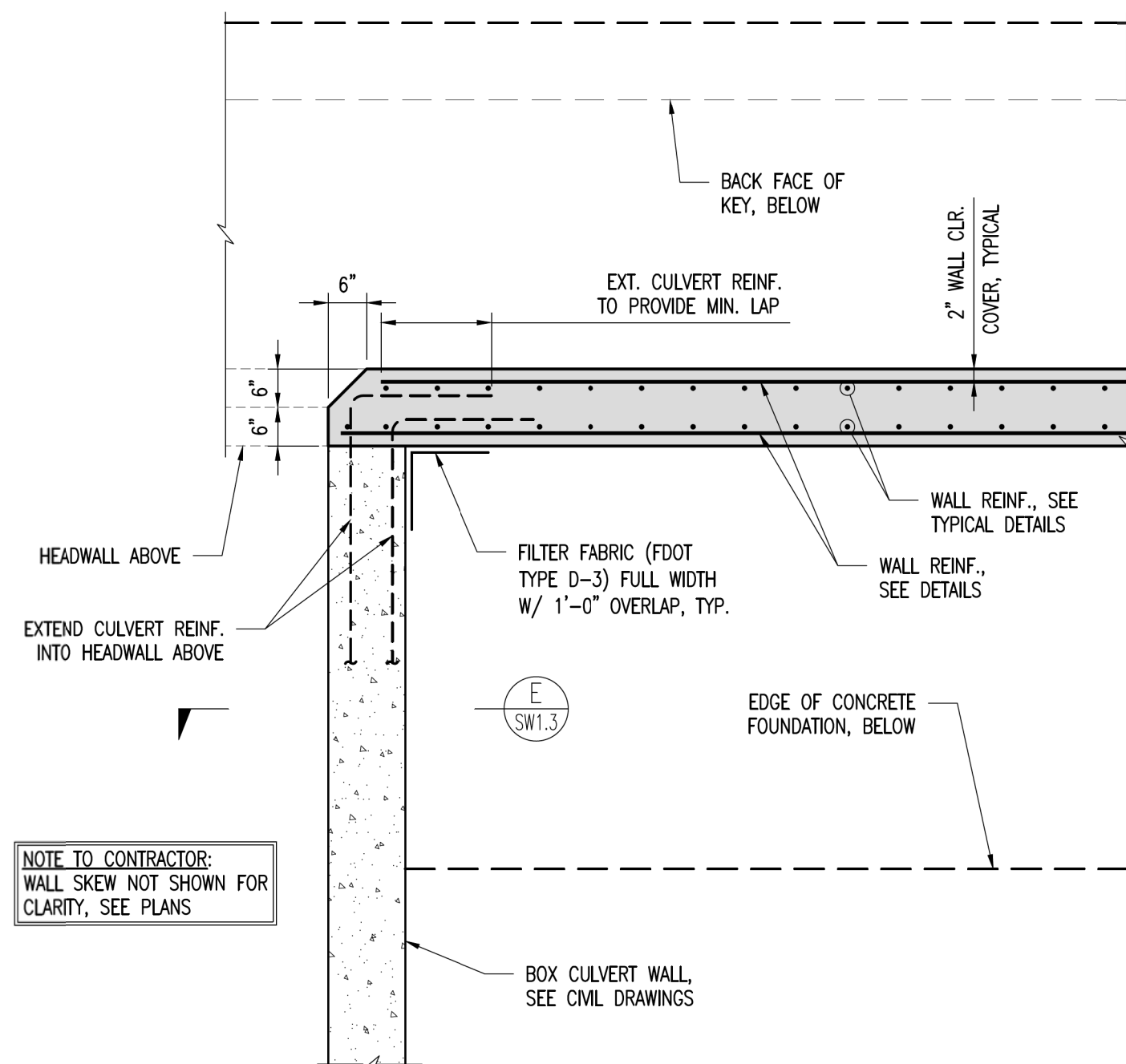
**WALL 'TYPE 1' SECTION** (A)  
SCALE: 1/2" = 1'-0"  
SW1.3



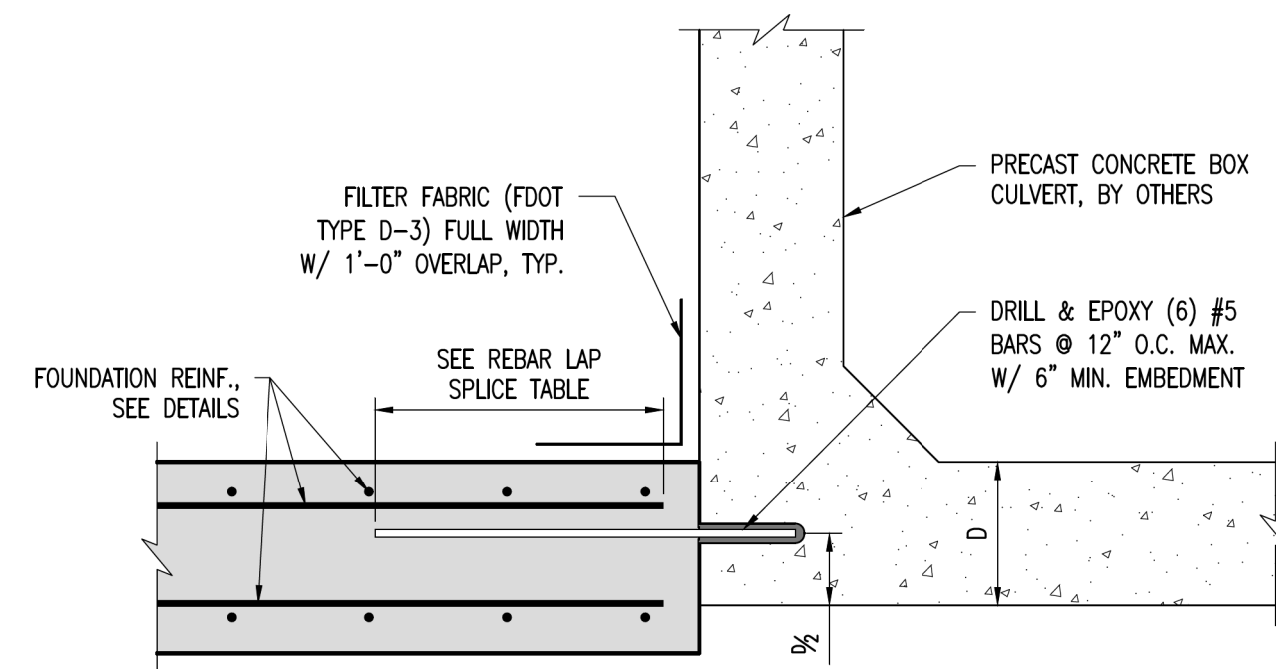
**WALL 'TYPE 2' SECTION** (B)  
SCALE: 1/2" = 1'-0"  
SW1.3



**HEADWALL 'TYPE 3' SECTION** (C)  
SCALE: 1/2" = 1'-0"  
SW1.3



**ENLARGED WING WALL TYPICAL DETAIL (PLAN VIEW)** (D)  
SCALE: 1/2" = 1'-0"  
SW1.3



**FOUNDATION/CULVERT CONN. DETAIL** (E)  
SCALE: 3/4" = 1'-0"  
SW1.3

NOTE TO CONTRACTOR:  
WALL SKEW NOT SHOWN FOR CLARITY, SEE PLANS

NOTES:  
1. SEE SHEET SW0.1 FOR GENERAL NOTES RELATED TO CONSTRUCTION OF THE ENDWALL.

Brian E Keever  
2022.02.15  
10:05:40  
-05'00'

This item has been digitally signed and sealed by Brian E. Keever, P.E. on the date listed in the signature.  
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

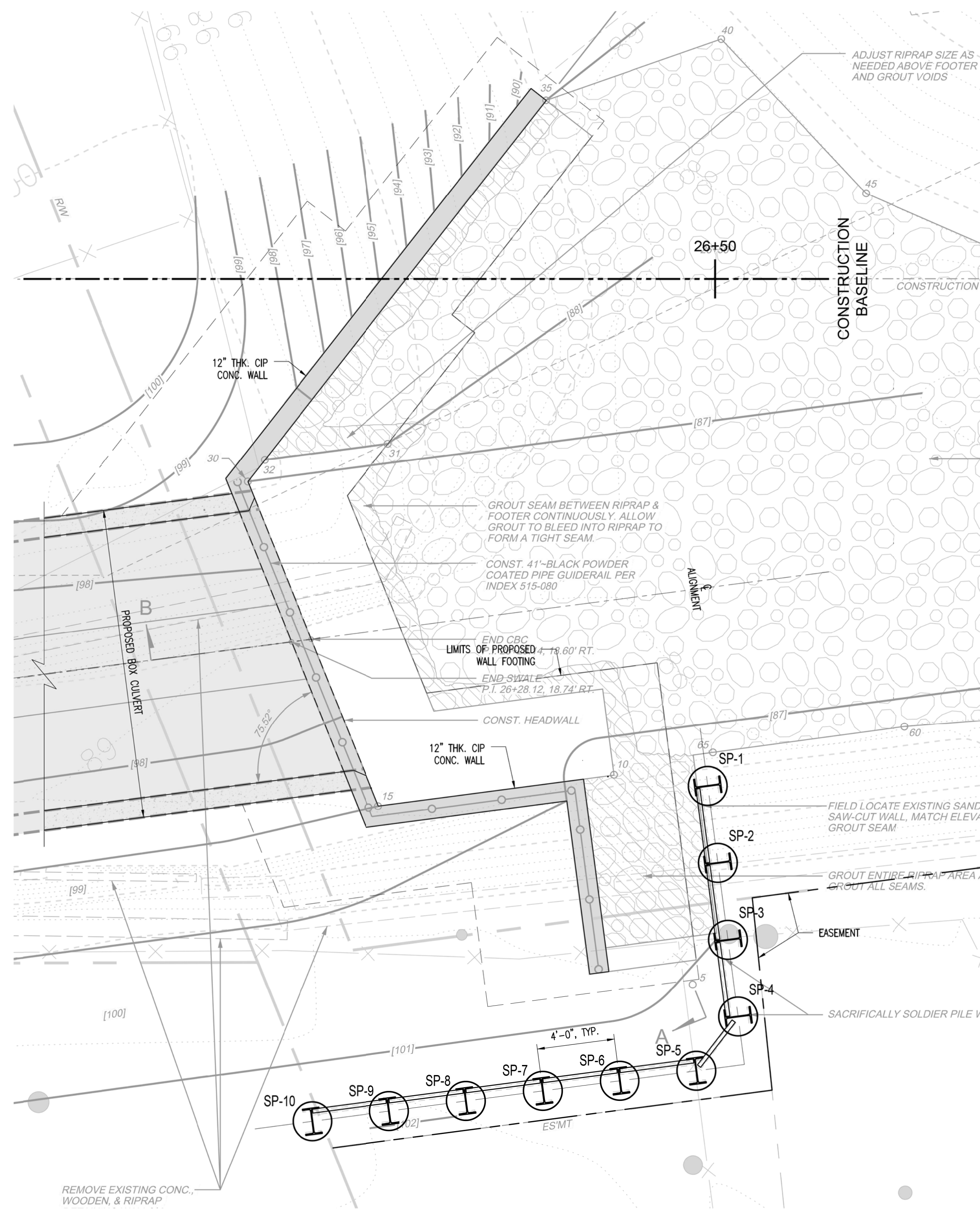
Drawn	K. Sumner	Rev. 1
Checked	B. Keever	Rev. 2
Job Number	20188	Rev. 3
Date	02.15.2022	Rev. 4

Endwall Sections & Details

SW1.3



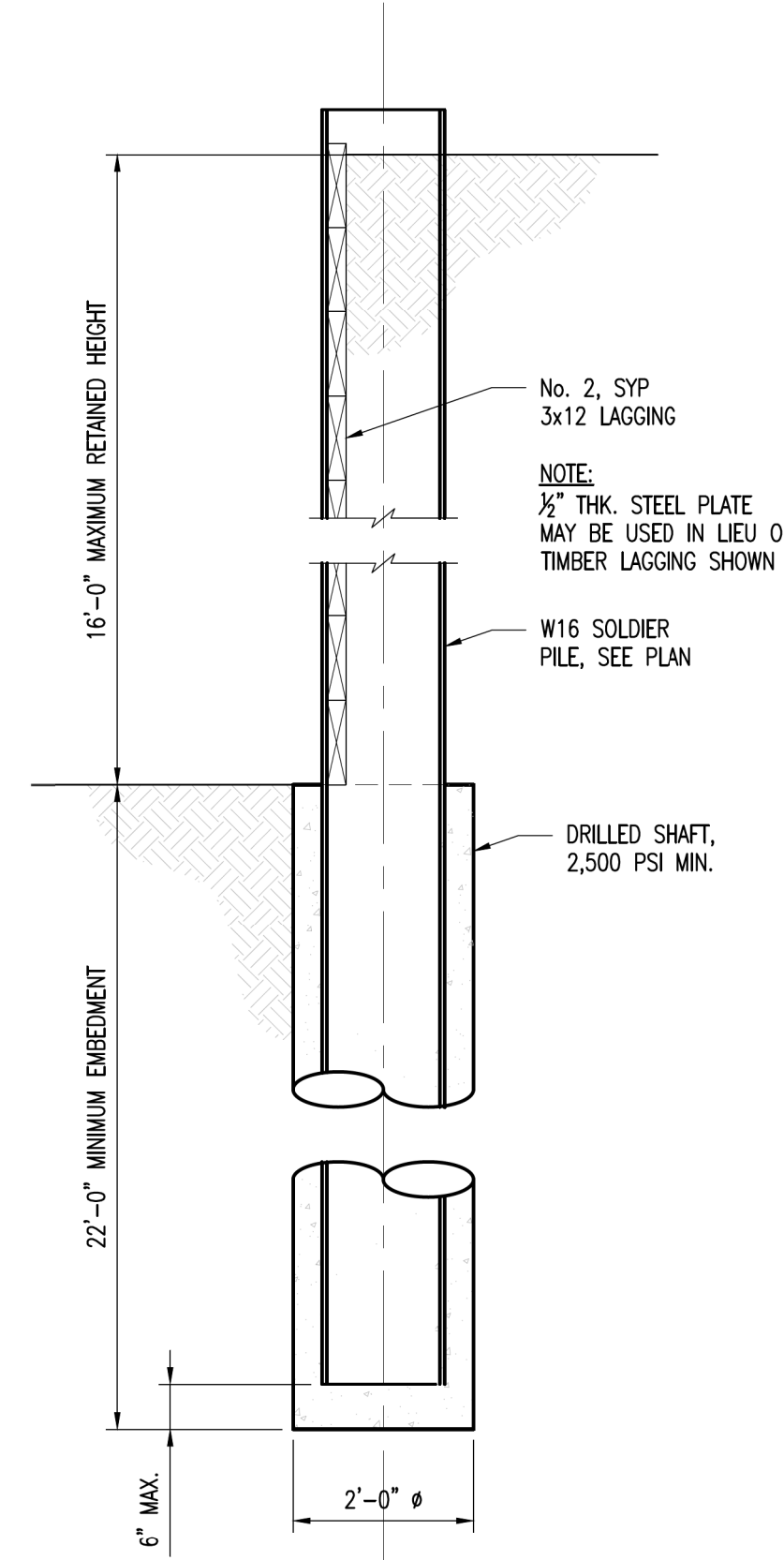
**McCORD POND  
Drainage Ditch Improvement Project  
Tallahassee, Florida**



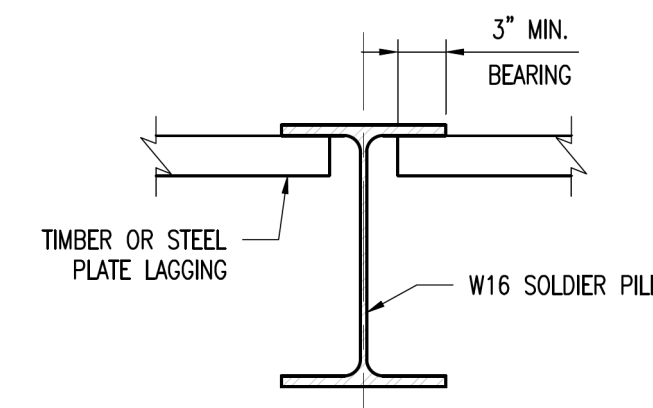
**TEMP. SOLDIER PILE WALL**  
SCALE: 1/4" = 1'-0"

TEMPORARY WALL SOLDIER PILE SCHEDULE								
SOLDIER PILE	PILE LOCATION		ROTATION FROM CONST. BASELINE	DRILLED SHAFT DIAMETER	DRILLED SHAFT		SOLDIER PILE SIZE	SOLDIER PILE TOP*
	STATION	OFFSET			TOP	BOTTOM		
SP-1	26+49.62	26.18' RT.	7.5'	24"	84.0'	62.0'	W16x67	101.0'
SP-2	26+50.15	30.15' RT.						
SP-3	26+50.67	34.11' RT.						
SP-4	26+51.19	38.08' RT.						
SP-5	26+49.03	40.88' RT.						
SP-6	26+45.07	41.40' RT.	-82.5'					
SP-7	26+41.10	41.93' RT.						
SP-8	26+37.14	42.45' RT.						
SP-9	26+33.17	42.97' RT.						
SP-10	26+29.21	43.49' RT.						

\* TOP ELEVATION SHOWN IS THE MINIMUM ELEVATION AT THE TOP OF THE STEEL SOLDIER PILE. SEE DETAIL A/S2.1 FOR THE MAXIMUM RETAINED HEIGHT FOR THE TEMPORARY WALL.



**TEMP. SOLDIER PILE WALL**  
SCALE: 1/4" = 1'-0"



**TYP. LAGGING CONNECTION**  
SCALE: 1" = 1'-0"

- NOTES:**
- SEE SHEET SW0.1 FOR GENERAL NOTES RELATED TO CONSTRUCTION OF THE SOLDIER PILE WALL.
  - THE QUANTITY SHOWN BELOW FOR FLOWABLE FILL IS THE MINIMUM AMOUNT REQUIRED BASED ON THE DIMENSIONS PROVIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE GROUTING TO ALLOW FOR THE INSTALLATION OF THE PILES WHILE ALSO ENSURING THE EXISTING CEMENT BAG WALL IS NOT UNDERMINED. ANY ADDITIONAL QUANTITY PROVIDED SHALL BE CONSIDERED INCIDENTAL TO THE WALL CONSTRUCTION.
  - APPROXIMATE TEMPORARY WALL QUANTITIES ARE AS FOLLOWS:
    - STRUCTURAL STEEL = 6,240 LBS.
    - FLOWABLE FILL = 26.8 CUBIC YARDS
    - TIMBER LAGGING = 110 BOARD FEET

Brian E Kever  
2022.02.15  
10:06:27  
-05'00'

This item has been digitally signed and sealed by Brian E. Kever, P.E. on the date listed in the signature.  
Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

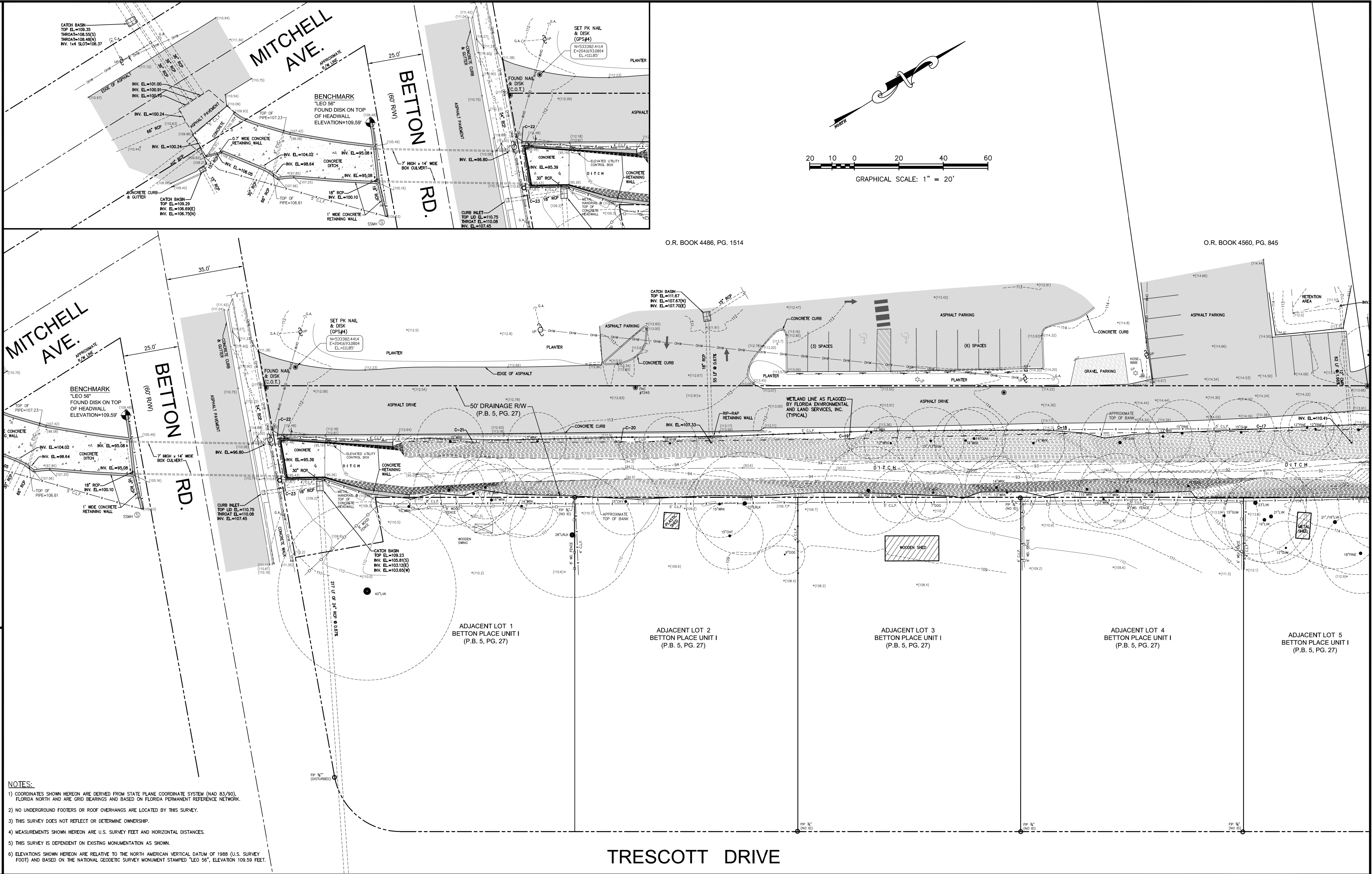
**SW2.1**

Checked	B. Kever	Rev. 2
Job Number	20188	Rev. 3
Date	02.15.2022	Rev. 4



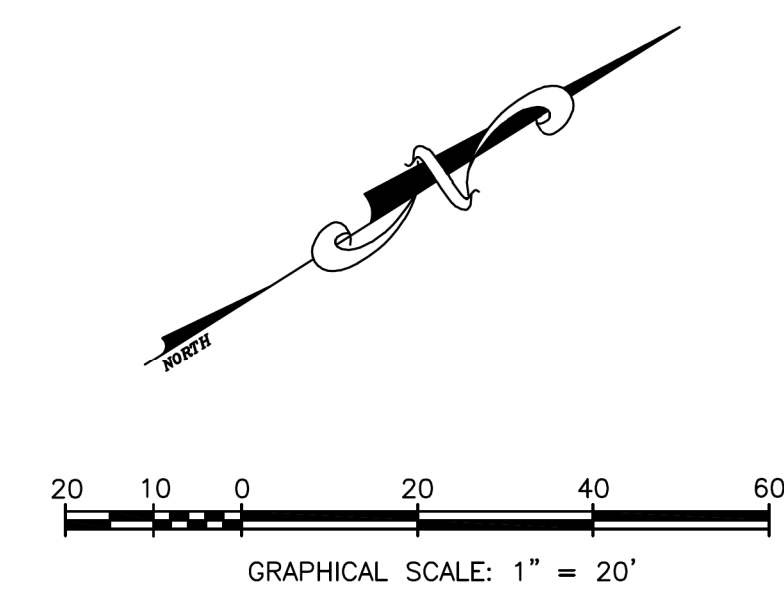
- LEGEND**
- SGM SET CONCRETE MONUMENT LB NO. 6745 (4"x4")
  - SIR SET IRON ROD LB NO. 6745 (5/8")
  - SNC SET NAIL & CAP LB NO. 6745
  - REF.PT REFERENCE POINT LB NO. 6745
  - WIT.PT WITNESS POINT LB NO. 6745
  - FCM FOUND CONCRETE MONUMENT (4"x4")
  - FTM FOUND TERRA COTTA MONUMENT
  - FIR FOUND IRON ROD
  - FNC FOUND NAIL & CAP
  - FIP FOUND IRON PIPE
  - FFP FOUND PINCH PIPE
  - PCP PERMANENT CONTROL POINT
  - PRM PERMANENT REFERENCE MONUMENT
  - LB. NO. LICENSED BUSINESS NUMBER
  - BM BENCHMARK
  - TBM TEMPORARY BENCH MARK
  - NAD NORTH AMERICAN DATUM
  - NAVD NORTH AMERICAN VERTICAL DATUM, 1983
  - NGVD NATIONAL GEODETIC VERTICAL DATUM, 1988
  - PES POOLE ENGINEERING & SURVEYING
  - DOT STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
  - COT CITY OF TALLAHASSEE
  - ALTA AMERICAN LAND TITLE ASSOCIATION
  - ACSM AMERICAN CONGRESS ON SURVEYING & MAPPING
  - NSPS NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
  - (S) SURVEY INFORMATION DEED INFORMATION
  - (D) PLATTED DATA
  - (C) CALCULATED DATA
  - POC POINT OF COMMENCEMENT
  - POB POINT OF BEGINNING
  - SEC. SECTION
  - T. TOWNSHIP
  - R. RANGE
  - O.R. OFFICIAL RECORDS
  - Δ CENTRAL ANGLE
  - R. RADIUS
  - L. LENGTH
  - CH CHORD BEARING & DISTANCE
  - PI POINT OF INTERSECTION
  - PT POINT OF TANGENCY
  - POT POINT OF TANGENT
  - PC POINT OF CURVE
  - PCC POINT OF COMPOUND CURVE
  - PRC POINT OF REVERSE CURVE
  - R/W RIGHT-OF-WAY
  - CL CENTER LINE
  - R/R RAILROAD
  - SR STATE ROAD
  - SPD STATE ROAD DEPARTMENT ELEVATION
  - FFE FINISH FLOOR ELEVATION
  - INV INVERT ELEVATION
  - OHW OVERHEAD WIRE
  - UTILITY POLE
  - TELE TELEPHONE
  - CONC CONCRETE
  - CO CLEAN OUT
  - WM WATER METER
  - WV WATER VALVE
  - FH FIRE HYDRANT
  - GV GAS VALVE
  - CMP CORRUGATED METAL PIPE
  - RCP REINFORCED CONCRETE PIPE
  - HDPE HIGH DENSITY POLYETHYLENE
  - SDMH SANITARY SEWER MANHOLE
  - SDMH STORM DRAIN MANHOLE
  - CLF CHAIN LINK FENCE
  - MB MAIL BOX
  - C-PED CABLE PEDESTAL
  - T-PED TELEPHONE PEDESTAL
  - SIGN
  - CONCRETE
  - WOOD DECK
  - D.E.P. DEPARTMENT OF ENVIRONMENTAL PROTECTION
  - T.E.C. TALQUIN ELECTRIC COOPERATIVE
  - H.O.A. HOME OWNERS ASSOCIATION
  - I.C.V. IRRIGATION CONTROL VALVE
  - G.A. GUY ANCHOR

- TREE LEGEND**
- LVK LIVE OAK
  - WRK WATER OAK
  - RDK RED OAK
  - LRK LAUREL OAK
  - PTK POST OAK
  - TRK TURKEY OAK
  - SLK BLACK OAK
  - SMK SHUMARD OAK
  - PN PINE
  - LGLP LONGLEAF PINE
  - SDP SAND PINE
  - SLP SHORTLEAF PINE
  - LBYP LOBLOLLY PINE
  - SRUP SPRUCE PINE
  - CPH CAMPHOR
  - DOG DOGWOOD
  - GUM SWEETGUM
  - RMLP RED MAPLE
  - CHY CHERRY
  - HKY HICKORY
  - MAG MAGNOLIA
  - CDR CEDAR
  - PCN PECAN
  - SYC SYCAMORE
  - MUL MULBERRY
  - BAY BAY
  - CYP CYPRESS
  - POP POPLAR
  - CHLL CHERRY LAUREL
  - X UNIDENTIFIED
  - Y UNIDENTIFIED
  - OT ORNAMENTAL TREE



**NOTES:**

- 1) COORDINATES SHOWN HEREON ARE DERIVED FROM STATE PLANE COORDINATE SYSTEM (NAD 83/90), FLORIDA NORTH AND ARE GRID BEARINGS AND BASED ON FLORIDA PERMANENT REFERENCE NETWORK.
- 2) NO UNDERGROUND FOOTERS OR ROOF OVERHANGS ARE LOCATED BY THIS SURVEY.
- 3) THIS SURVEY DOES NOT REFLECT OR DETERMINE OWNERSHIP.
- 4) MEASUREMENTS SHOWN HEREON ARE U.S. SURVEY FEET AND HORIZONTAL DISTANCES.
- 5) THIS SURVEY IS DEPENDENT ON EXISTING MONUMENTATION AS SHOWN.
- 6) ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (U.S. SURVEY FOOT) AND BASED ON THE NATIONAL GEODETIC SURVEY MONUMENT STAMPED "LEO 56", ELEVATION 109.59 FEET.



O.R. BOOK 4486, PG. 1514  
O.R. BOOK 4560, PG. 845

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

THE UNDERSIGNED SURVEYOR HAS NOT BEEN PROVIDED A CURRENT TITLE OPINION OR ABSTRACT OF MATTERS AFFECTING TITLE OR BOUNDARY TO THE SUBJECT PROPERTY. IT IS POSSIBLE THERE ARE DEEDS OF RECORD UNRECORDED DEEDS, EASEMENTS OR OTHER INSTRUMENTS WHICH COULD AFFECT BOUNDARIES.

PREPARED FOR:  
Singhofen and Associates, Inc.

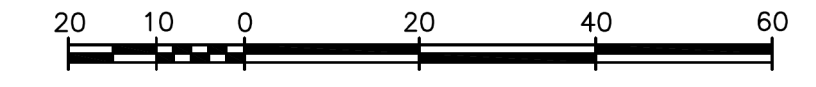
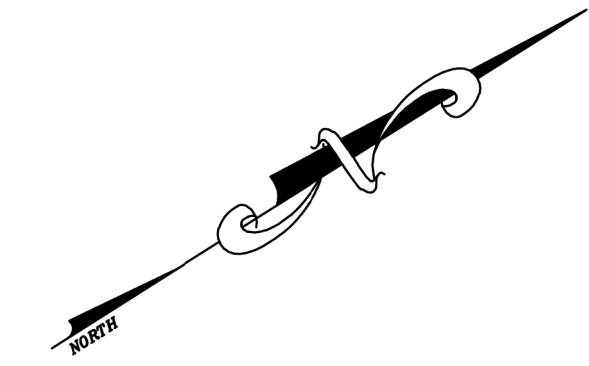
DRAWN BY : RBI  
CHECKED BY : JAK  
DATE : JUNE 22, 2017  
REVISED: 02/13/20 ADDTL TOPO/INV INFO  
SCALE 1" = 20'

FIELD BOOK: 256, PAGES 44,46,56-58  
SURVEY DATE: JUNE 1, 2017; JANUARY 31, 2020  
BASE OF SURVEY: BEEDS AND PLATS RECORDED IN PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

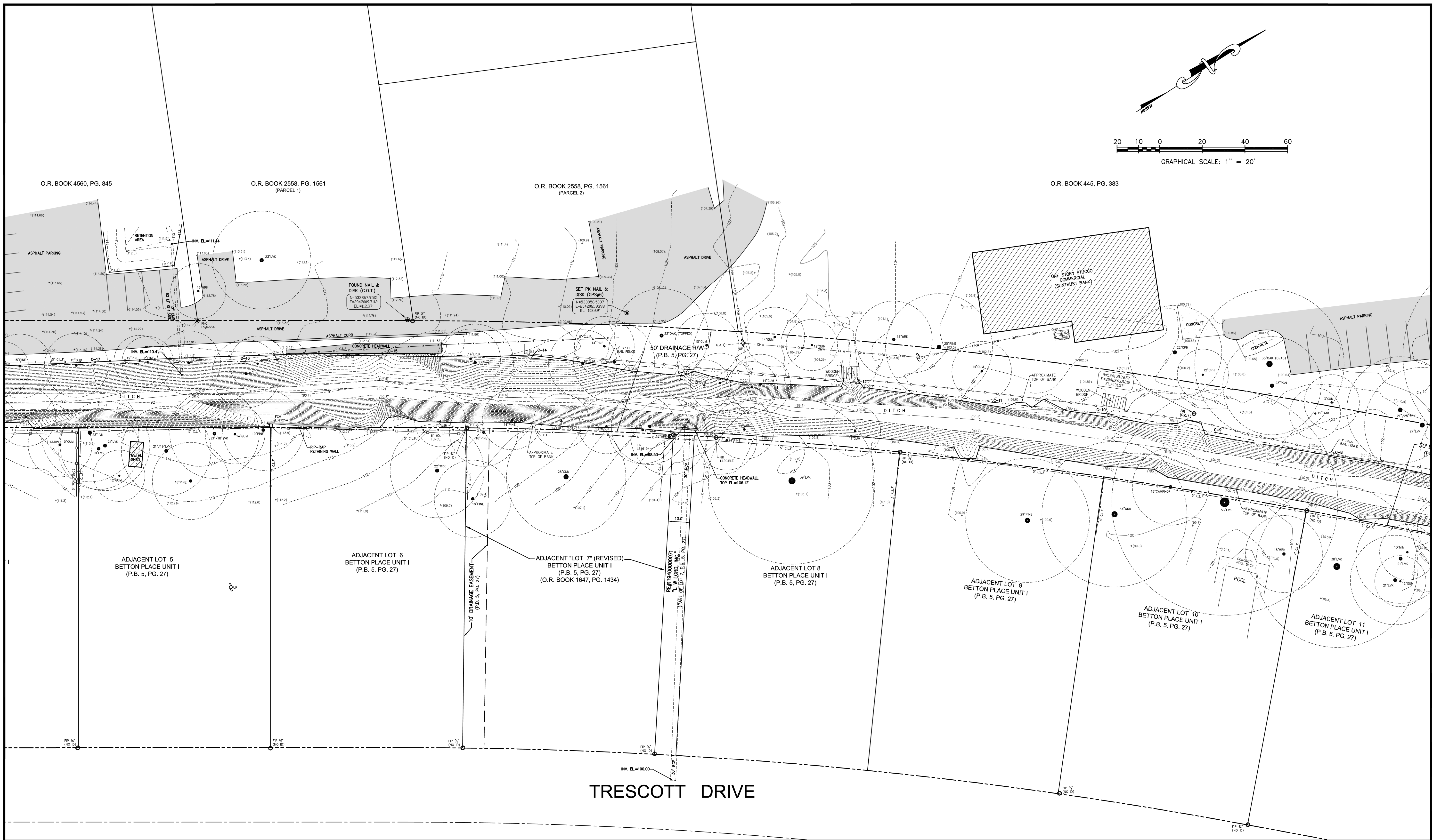
JAY ALAN KERI  
PROFESSIONAL SURVEYOR & MAPPER  
STATE OF FLORIDA  
LICENSE NO. 5721

**POOLE ENGINEERING & SURVEYING, Inc.**  
2145 DELTA BLVD. • TALLAHASSEE, FL. 32303 • (850)386-5117 • LICENSE NO: 6745  
WWW.POOLE-ENG.COM

<b>SPECIFIC PURPOSE</b> <b>SURVEY OF</b> McCORD PARK DRAINAGE DITCH	SHEET NO. V-1
	JOB NO. 17137
Singhofen and Associates, Inc.	



GRAPHICAL SCALE: 1" = 20'



O.R. BOOK 4560, PG. 845

O.R. BOOK 2558, PG. 1561 (PARCEL 1)

O.R. BOOK 2558, PG. 1561 (PARCEL 2)

O.R. BOOK 445, PG. 383

ADJACENT LOT 5  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)

ADJACENT LOT 6  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)

ADJACENT LOT 7 (REVISED)  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)  
(O.R. BOOK 1647, PG. 1434)

ADJACENT LOT 8  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)

ADJACENT LOT 9  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)

ADJACENT LOT 10  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)

ADJACENT LOT 11  
BETTON PLACE UNIT I  
(P.B. 5, PG. 27)

TRESCOTT DRIVE

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

PREPARED FOR:  
• Singhofen and Associates, Inc.

FIELD BOOK: 256, PAGES 44, 46, 56-58  
SURVEY DATE: JUNE 1, 2017; JANUARY 31, 2020  
BASE OF SURVEY: DEEDS AND PLATS RECORDED IN PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

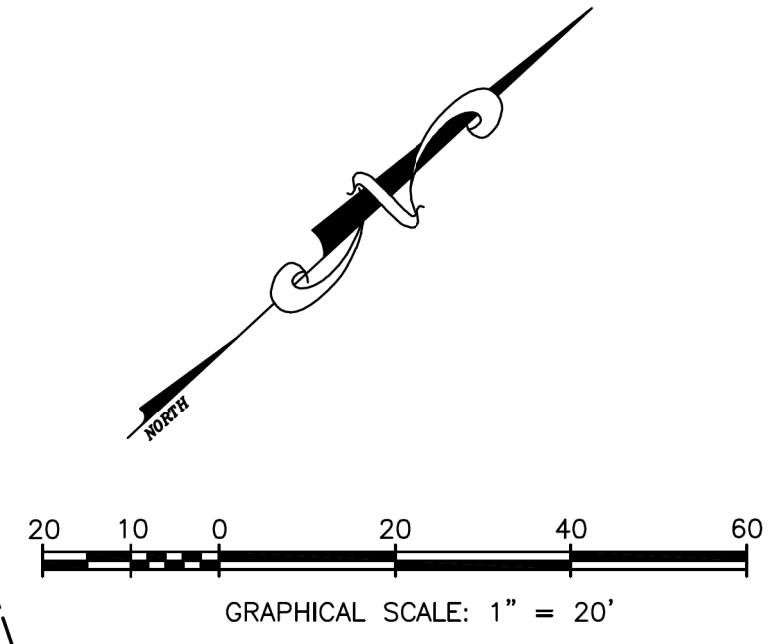
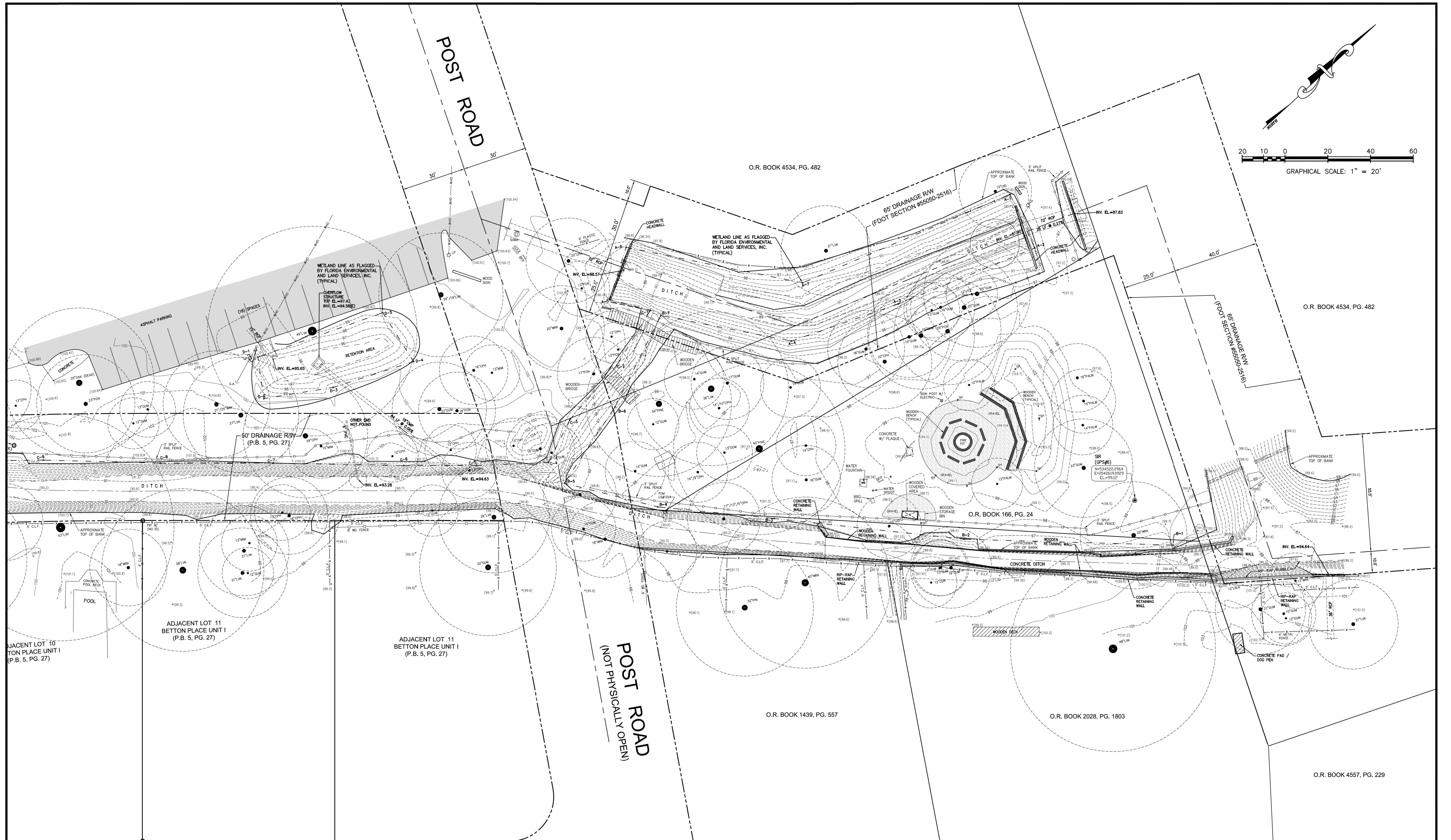
DRAWN BY : RBI  
CHECKED BY : JAK  
DATE : JUNE 22, 2017  
REVISED: 02/13/20 ADDTL TOPO/INV INFO  
SCALE 1" = 20'  
FIELD BOOK: 256, PAGES 44, 46, 56-58  
SURVEY DATE: JUNE 1, 2017; JANUARY 31, 2020  
BASE OF SURVEY: DEEDS AND PLATS RECORDED IN PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

THE UNDERSIGNED SURVEYOR HAS NOT BEEN PROVIDED A CURRENT TITLE OPINION OR ABSTRACT OF MATTERS AFFECTING TITLE OR BOUNDARY TO THE SUBJECT PROPERTY. IT IS POSSIBLE THERE ARE DEEDS OF RECORD UNRECORDED DEEDS, EASEMENTS OR OTHER INSTRUMENTS WHICH COULD AFFECT BOUNDARIES.

**POOLE ENGINEERING & SURVEYING, Inc.**  
2145 DELTA BLVD. • TALLAHASSEE, FL. 32303 • (850)386-5117 • LICENSE NO: 6745  
WWW.POOLE-ENG.COM

**SPECIFIC PURPOSE SURVEY OF**  
McCORD PARK DRAINAGE DITCH  
Singhofen and Associates, Inc.

SHEET NO.  
V-2  
JOB NO.  
17137



NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

PREPARED FOR:  
 • Singhofen and Associates, Inc.

DRAWN BY : RBI  
 CHECKED BY : JAK  
 DATE : JUNE 22, 2017  
 REVISED: 02/13/20 ADDTL TOPO/INV INFO  
 SCALE 1" = 20'  
 FIELD BOOK: 256, PAGES 44,46,56-58  
 SURVEY DATE: JUNE 1, 2017; JANUARY 31, 2020  
 BASE OF SURVEY: DEEDS AND PLATS RECORDED IN PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

THE UNDERSIGNED SURVEYOR HAS NOT BEEN PROVIDED A CURRENT TITLE OPINION OR ABSTRACT OF MATTERS AFFECTING TITLE OR BOUNDARY TO THE SUBJECT PROPERTY. IT IS POSSIBLE THERE ARE DEEDS OF RECORD UNRECORDED DEEDS, EASEMENTS OR OTHER INSTRUMENTS WHICH COULD AFFECT BOUNDARIES.

**POOLE ENGINEERING & SURVEYING, Inc.**

2145 DELTA BLVD. • TALLAHASSEE, FL. 32303 • (850)386-5117 • LICENSE NO: 6745  
 • WWW.POOLE-ENG.COM •

**SPECIFIC PURPOSE SURVEY OF**  
**McCORD PARK DRAINAGE DITCH**

Singhofen and Associates, Inc.

SHEET NO.  
 V-3  
 JOB NO.  
 17137