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CONSTRUCTION PLANS FOR:
BUSY BEE NO. 7
SERVICE AREA EXPANSION

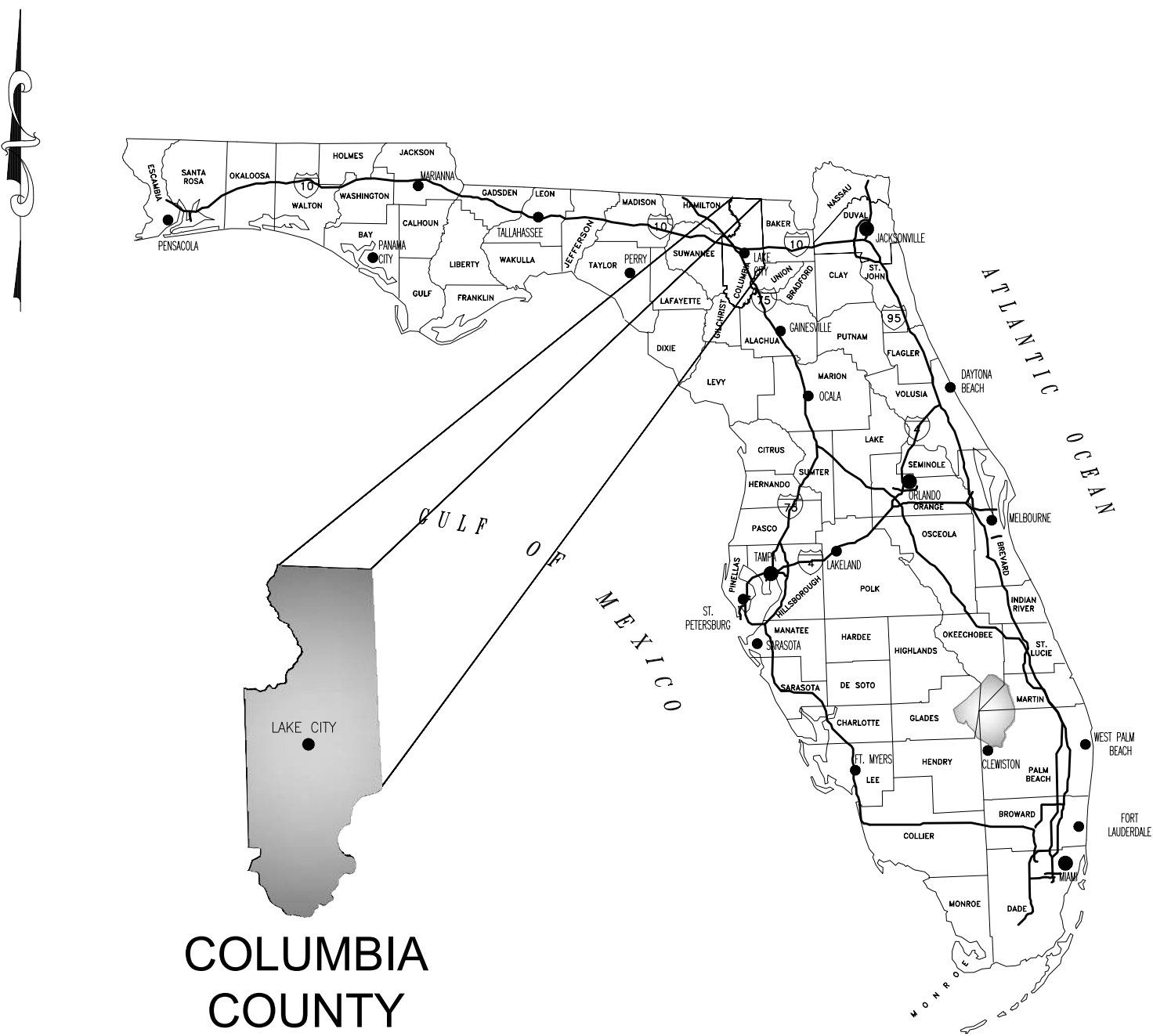


PREPARED FOR:

JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

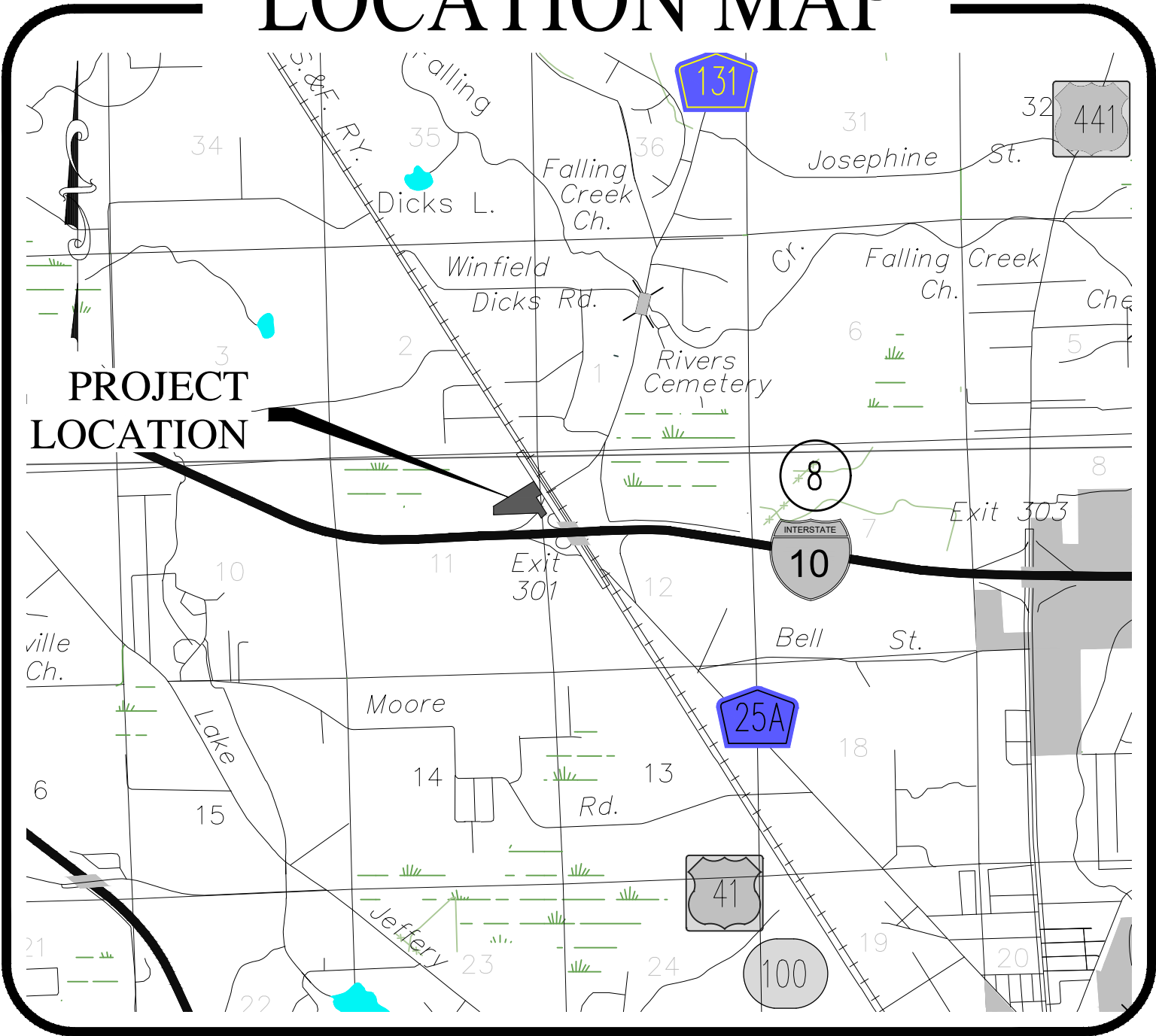
CONSTRUCTION DOCUMENTS

VICINITY MAP



SHEET NO.	SHEET DESCRIPTION:
C1	COVER SHEET
C2	GENERAL NOTES
C3	STORMWATER POLLUTION PREVENTION PLAN
C4	DEMOLITION AND EROSION CONTROL PLAN
C5	SITE LAYOUT, SIGNING AND PAVING PLAN
C6	GRADING PLAN
C7	UTILITY PLAN
C8	FDOT DRIVEWAY CONNECTION PLAN VIEW
C9	DRIVEWAY CONNECTION PLAN AND PROFILES
C10	DRIVEWAY CONNECTION CROSS SECTIONS
C11	TURN LANE DEMOLITION & EROSION CONTROL
C12	TURN LANE PLAN VIEW
C13-C14	CROSS SECTIONS
C15	BASIN MAP
C16	AUTO TURN ANALYSIS
D1	MISCELLANEOUS DETAILS
D2	SITE DETAILS
L1	LANDSCAPE PLAN

LOCATION MAP



ERRORS AND OMISSIONS, IF ANY, IN THESE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.

GENERAL CONTRACTOR TO THOROUGHLY INSPECT EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS. ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS SHALL BE NOTED AT ONCE AND CALLED TO THE ENGINEER'S ATTENTION 48 HOURS PRIOR TO SUBMITTING BIDS.

ALL CORRESPONDENCE IN REGARDS TO THESE CONSTRUCTION / BID DOCUMENTS SHALL BE DIRECTED TO WILLIAM A. MENADIER, P.E. AT DEWBERRY ENGINEERS, INC. 654 SOUTHEAST BAYA DR. LAKE CITY, FLORIDA 32025

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS LATEST EDITION, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, AS AMENDED BY CONTRACT DOCUMENTS. For Design Standards Modifications click on "Design Standards" at the following web site:
<http://www.dot.state.fl.us/rddesign/>

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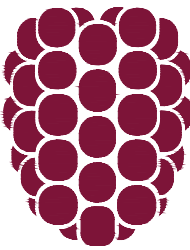
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OWNER, DEVELOPER, AGENT

OWNER/DEVELOPER: JOHNSON & JOHNSON, INC.
P.O. BOX 157
MADISON, FLORIDA 32341
(850) 973-2277

ENGINEER/AGENT: DEWBERRY ENGINEERS, INC.
101 N. MONROE ST., SUITE 710
TALLAHASSEE, FL 32301
PHONE 850.523.0062

SITE ADDRESS: 4772 NW US HIGHWAY 41
LAKE CITY, FL 32055



PREPARED BY:
Dewberry®

101 N. MONROE ST., SUITE 710, TALLAHASSEE, FL 32301
850.523.0062

PROJECT NUMBER - 50136924

AUGUST 2021

WILLIAM A. MENADIER, P.E.
NO. 74581

DATE:

BUSY BEE #7

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DATE NOTED ON THE ELECTRONIC SIGNATURE

WILLIAM A. MENADIER, P.E. 74581
COA# 8794

SCALE

REVISIONS

[illegible]

NO.	DESCRIPTION	DATE
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APPROVED BY JBB
— CHECKED BY WAM
DATE AUGUST 2021

TITLE

PROJECT NO.	50136924
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SHEET NO.

- 1) THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING UTILITIES, PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY AND ALL UTILITIES, AS REQUIRED BY THE PLANS AND UTILITY COMPANIES, TO CONSTRUCT THE PROPOSED IMPROVEMENTS. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COST OF SAID RELOCATION. CONTRACTOR SHALL ALSO NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL (800-432-4770) AT LEAST 2 FULL DAYS PRIOR TO EXCAVATION OR DEMOLITION, AND UTILITY OWNERS NOT COVERED BY THIS PROGRAM.
- 2) MINIMUM COMPACTION SHALL BE PROVIDED FOR THE PROPOSED PAVEMENT AND SURROUNDING AREAS BY THE GEOTECHNICAL ENGINEER. ANY BORROW MATERIAL SHALL, IF REQUIRED, BE PROVIDED BY THE CONTRACTOR BASED ON GEOTECHNICAL INVESTIGATION AND COMMENTS. CONTRACTOR SHALL UTILIZE SUITABLE SOIL ON SITE FOR ANY BORROW MATERIAL. FOLLOWING FINAL GRADING, ANY STOCKPILED TOPSOIL SHALL BE SPREAD OVER DISTURBED AREAS OR OWNERS' PROPERTY AS NEEDED. THE SOIL SHALL BE STABILIZED AS SPECIFIED IN SWPPP TO PREVENT EROSION ON SITE. GEOTECHNICAL INVESTIGATION CONDUCTED BY NB GEO SERVICES, LLC, LAKE CITY, FL, #16-00002.
- 3) WHERE REFERENCE IS MADE TO A STANDARD INDEX OR DETAIL, THE FDOT DESIGN STANDARDS, CURRENT EDITION, SHALL BE UTILIZED AS IF A PART OF THESE PLANS. CONTRACTOR MAY SUBSTITUTE FDOT ITEMS FOR THE INFRASTRUCTURE CONSTRUCTION, ANY SUBSTITUTIONS SHALL HAVE A 50 YEAR LIFESPAN. CONTRACTOR/OWNER WILL BE REQUIRED TO PROVIDE DESIGNS OR VERIFICATION OF SUBSTITUTE. ALL SIGNS REFERRED TO IN THE PLANS SHALL BE IN ACCORDANCE WITH MUTCD (MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES) LATEST EDITION.
- 4) UNLESS OTHERWISE NOTED OR DETAILED ON THE PLANS OR IN THE SPECIFICATIONS, THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, SHALL BE THE GOVERNING SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION FOR SITE WORK.
- 5) NO MUNICIPAL WATER OR SEWER SYSTEM IS AVAILABLE. THE DEVELOPMENT SHALL UTILIZE AN ON-SITE WELL FOR DOMESTIC WATER AND A SEPTIC TANK AND DRAINFIELD FOR SANITARY WASTE AND TREATMENT. CONSTRUCTION SHALL COMPLY WITH COLUMBIA COUNTY SPECIFICATIONS, AS WELL AS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND COUNTY DEPARTMENT OF HEALTH.
- 6) THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ALSO MAINTAIN EROSION CONTROL DEVICES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE PROJECT SITE AND ENTERING THE STORMWATER POND. THE EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL (SWPPP) PLANS ARE THE MINIMUM REQUIRED AND SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE INSPECTOR TO CONTROL SEDIMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STORMWATER RUNOFF SHALL BE CONTROLLED DURING THE COURSE OF CONSTRUCTION IN SUCH A MANNER AS TO PREVENT DAMAGE OR DETRIMENTAL HARM TO OFFSITE PROPERTIES. THE CONTRACTOR SHALL REFER TO THE "FLORIDA STORMWATER EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL" FOR ADDITIONAL EROSION CONTROL MEASURE AND ALTERNATIVES. CONTRACTOR SHALL SEEK APPROVAL FROM THE ENGINEER OF RECORD FOR ANY SUBSTITUTIONS TO THE EROSION CONTROL MEASURES.
- 7) ALL DISTURBED AREAS SHALL BE STABILIZED PER THE SWPPP. DISTURBED AREAS OUTSIDE THE SILT FENCED PERIMETER SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADE IS ACHIEVED. ALL DISTURBED AREAS TO BE LEFT IDLE FOR MORE THAN 14 DAYS SHALL BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH. THE CONTRACTOR SHALL WARRANTY LANDSCAPING FOR A MINIMUM OF 1 YEAR AFTER ACCEPTANCE UNLESS OTHERWISE NOTED.
- 8) AS-BUILTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE AS-BUILT SURVEY INDICATES AN AREA OF INCOMPLETE OR UNACCEPTABLE WORK, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING THE NECESSARY REPAIRS, AS DIRECTED BY THE ENGINEER, OR COLUMBIA COUNTY. CONTRACTOR WILL BE REQUIRED TO PROVIDE UPDATED AS-BUILTS TO DEMONSTRATE COMPLIANCE WITH THE PLANS AND PERMITS. ALL FINAL AS-BUILT SURVEYS ARE REQUIRED TO BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL. AS-BUILTS ARE REQUIRED TO RECEIVE FINAL C.O.'S. TEMPORARY C.O.'S MAY BE ISSUED PRIOR TO FINAL CLOSE OUT. IF THE CONTRACTOR IS SEEKING TEMPORARY C.O.'S, ALL ASSOCIATED INFRASTRUCTURE, LANDSCAPING, PARKING ETC... SHALL BE COMPLETED.
- 9) ALL WORK WITHIN FDOT RIGHT-OF-WAY SHALL CONFORM TO THE MOST RECENT DEPARTMENT STANDARDS AND SPECIFICATIONS.

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER, COLUMBIA COUNTY, ENGINEER, FDOT AND ALL OTHER PARTIES REQUIRED FOR COMMENCEMENT OF PROJECT. THIS MEETING SHALL TAKE PLACE PRIOR TO COMMENCEMENT OF ANY PROJECT RELATED ACTIVITIES. PRIOR TO ANY CONSTRUCTION THE PERMIT MUST BE POSTED WITHOUT NAILING TO ANY TREE ON SITE. THE NAME AND PHONE NUMBER OF THE SEDIMENT AND EROSION CONTROL OFFICER SHALL BE PROVIDED AT THE PRE CONSTRUCTION MEETING.
2. THE CONTRACTOR SHALL ENSURE THAT A FOREMAN OR SUPERVISOR WHO HAS BEEN CERTIFIED UNDER FLORIDA STORMWATER, EROSION, AND SEDIMENTATION CONTROL INSPECTOR TRAINING PROGRAM IS AVAILABLE IN PERSON OR BY TELEPHONE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONSTRUCTION SHALL NOT COMMENCE UNTIL INFORMATION (NAME AND PHONE NUMBER) OF CERTIFIED STORMWATER EROSION AND SEDIMENT CONTROL INSPECTOR HAS BEEN PROVIDED TO THE ENGINEER.
3. PRIOR TO DISTURBANCE, A SILT FENCE BACKED WITH 4' HOG WIRE FENCE (TRENCHED 8 INCHES DEEP AND BACKFILLED ON THE UPHILL SIDE), SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT FENCE MUST NOT BE TRENCHED WITHIN THE CPZ OF ANY TREES TO BE PROTECTED. EROSION CONTROL SHOWN ON PLANS IS REQUIRED. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED DURING ANY PHASE OF THE DEVELOPMENT, AT THE DISCRETION OF COLUMBIA COUNTY OR THE ENGINEER. COLUMBIA COUNTY MAY REQUIRE ADDITIONAL MEASURES TO PREVENT ADDITIONAL EROSION CONTROL. CONTRACTOR SHALL PROVIDE OUTLET PROTECTIONS FOR SEDIMENTS THAT MAY ENTER THE STORMWATER FACILITY. CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING THE POND AFTER CONSTRUCTION TO REMOVE ALL SEDIMENT AND GRADE TO PROPOSED ELEVATIONS. CONTRACTOR WILL BE RESPONSIBLE FOR THE CONDITION OF THE POND DURING CONSTRUCTION AND SHALL USE A TURBIDITY BARRIER AT EACH POND CONNECTION TO PREVENT SEDIMENTATION ENTERING THE POND.
4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE STABILIZED WITH PERMANENT SOD OR OTHER PERMANENT STABILIZATION METHODS.
5. CREATE DIVERSION CHANNELS IF NECESSARY TO DIRECT STORM WATER FLOW TO THE CONVEYANCE SYSTEM. CONSTRUCT HAY BALE CHECK DAMS WHERE NEEDED TO TRAP SEDIMENT BEFORE IT REACHES THE CONVEYANCE SYSTEM OR POND. DO NOT BLOCK ACCESS DRIVES.
6. CARE SHALL BE TAKEN TO ASSURE THE REMOVAL OF ACCUMULATED FINE SEDIMENTS FROM THE POND AND THAT THE EXCESSIVE COMPACTION OF SOIL BY CONSTRUCTION MACHINERY IS AVOIDED. INLET(S)/OUTFALLS SHALL BE PROTECTED WITH FILTER FABRIC AND PROPERLY INSTALLED HAY BALES.
7. ALL SEDIMENT IS TO BE CAPTURED ON THE PROJECT SITE. ANY SEDIMENT ESCAPING THE PROJECT SITE WILL BE REQUIRED TO BE REMOVED AND RESTORED INCLUDING THE TRACKING OF SOIL ON STREETS. THIS INCLUDES SEDIMENT INTO COUNTY & STATE WATERS AND THE POND. CONTRACTOR WILL BE RESPONSIBLE FOR ANY SEDIMENT ENTERING THE COUNTY AND STATE WATERS OR POND AND WILL BE RESPONSIBLE FOR ITS REMOVAL.
8. DAILY SWEEPING WILL BE REQUIRED ON THE SITE AND IMMEDIATELY AFTER STORM EVENTS TO PREVENT TRACKING OF SEDIMENT ON TO STREETS AND RIGHT OF WAY OR POND.
9. TWO WEEKS PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL HAVE A WALK THROUGH WITH THE ENGINEER AND FDOT AND A PUNCH LIST SHALL BE PREPARED. ONCE ALL PUNCH LIST ITEMS ARE ADDRESSED TO SATISFY THE PERMIT CONTRACTOR SHALL ALSO SCHEDULE A WALK THROUGH WITH THE OWNER, ENGINEER AND COLUMBIA COUNTY UPON COMPLETION.
10. CONTRACTOR SHALL PAY FOR AND PROVIDE THE ENGINEER WITH TWO (2) COPIES OF A SIGNED AND SEALED AS-BUILT SURVEY OF ALL INFRASTRUCTURE, STORMWATER FACILITY AND ASSOCIATED CONVEYANCES, INCLUDING LANDSCAPE IMPROVEMENTS AND ELECTRONIC CADD FILE.

- 1) EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EVERY 1/2" OF RAINFALL. REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 2) SYNTHETIC HAY BALES SHALL BE USED IN AREAS WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS. INSPECTION OF THE SYNTHETIC HAY BALES SHALL TAKE PLACE IMMEDIATELY AFTER EACH RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SYNTHETIC HAY BALES SHALL BE PER FOOT SPECIFICATIONS.
- 3) INLET(S)/OUTFALLS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAIN EVENT AND ANY REQUIRED REPAIRS TO THE HAY BALES, SILT FENCE, OR FILTER FABRIC SHALL BE PERFORMED IMMEDIATELY.
- 4) BARE AREAS OF THE SITE THAT WERE PREVIOUSLY SEEDED OR SODDED SHALL BE RESEEDD OR RESODDED PER MANUFACTURERS' INSTRUCTIONS.
- 5) MULCH AND SOD THAT HAS BEEN WASHED OUT SHALL BE REPLACED IMMEDIATELY. CONTRACTOR SHALL PIN SOD ON SLOPES STEEPER THAN 3:1
- 6) MAINTAIN ALL AREAS OF THE SITE WITH PROPER CONTROLS AS NECESSARY OR REQUIRED BY COLUMBIA COUNTY.
- 7) IF PROPOSED EROSION AND SEDIMENTATION CONTROLS ARE FOUND INEFFECTIVE OR IN NEED OF MAINTENANCE, THE COUNTY MAY DIRECT INSTALLATION OF ADDITIONAL MEASURES TO PROTECT THE ENVIRONMENT. THE ENGINEER SHALL FURNISH THE CONTRACTOR WITH INFORMATION PERTAINING TO THE CONSTRUCTION, OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL PRACTICES PER FLORIDA ADMINISTRATIVE CODE CHAPTER 62-25.025(7).

ON-SITE SEWAGE DISPOSAL SYSTEM

- ## CIVIL SHOP DRAWINGS

- A) ASPHALT MIX DESIGN
B) CONCRETE MIX DESIGN
C) WATER DISTRIBUTION SYSTEM PIPING
D) BACKFLOW PREVENTION DEVICES
E) SANITARY AND GREASE WASTE SYSTEM DISTRIBUTION PIPING
F) STORM OUTFALL CONTROL STRUCTURE AND STORM PIPING
G) PROVIDE RESULTS OF COMPACTION TESTING IN PAVEMENT AREAS, ONE TEST PER 5,000 SF

1. CONTACT DEWBERRY AT 386-719-9985 TO OBTAIN AN ELECTRONIC COPY OF THE GEOTECHNICAL REPORT. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS.
2. ALL SOILS WITHIN PAVED AREAS (INCLUDING A MINIMUM OF 5 FEET OUTSIDE THE PERIMETER) SHOULD BE DENSIFIED WITH OVERLAPPING PASSES OF APPROPRIATE COMPACTION EQUIPMENT. EXPOSED SURFACES WITHIN THE PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557).
3. INITIAL SITE PREPARATIONS SHOULD INCLUDE THE COMPLETE REMOVAL OF TOPSOIL, MUCK, CONCRETE OR ASPHALT PAVEMENT AND ANY OTHER DELETERIOUS MATERIAL ASSOCIATED WITH BURIED UTILITIES. THE REMOVAL OF UNSUITABLE MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET OUTSIDE THE LIMIT OF ALL STRUCTURE AND PAVED AREAS. ONCE REMOVED ALL EXPOSED SURFACES SHOULD BE DENSIFIED PRIOR TO PLACEMENT OF ANY SUBSEQUENT FILL REQUIRED TO RE-ESTABLISH THE SUBGRADE.
4. STRUCTURAL FILL SHOULD BE PLACED IN THIN LOOSE LIFTS NOT EXCEEDING 12 INCHES IN THICKNESS AND COMPACTED WITH APPROPRIATE EQUIPMENT TO ACHIEVE THE REQUIRED COMPACTION. EACH LIFT OF STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 98 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557) WITHIN THE PAVEMENT AREAS. STRUCTURAL FILL SHALL CONSIST OF INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 12 PERCENT MATERIAL PASSING THE NO. 200 SIEVE (UNIFIED SOIL CLASSIFICATION OF SP OR SP-SM).
5. TO ALLEVIATE ADVERSE EFFECTS OF DIFFERENTIAL SETTLEMENT THE NEW STRUCTURAL FILL PLACED WITHIN THE AREAS SURROUNDING THE PREVIOUSLY DEMUCKED DRAINAGE DITCH BE BENCHED IN TO THE EXCAVATION DITCH SIDES. THIS MAY BE ACCOMPLISHED BY CUTTING A MINIMUM 5 FOOT WIDE HORIZONTAL BENCH INTO THE EXISTING SOILS FOR EVERY 12 INCH LIFT OF NEW FILL.
6. REMOVAL OF TOPSOIL, WET AND SOFT/LOOSE SOILS SHOULD BE EXPECTED DURING THE SUBGRADE PREPARATIONS WITHIN PAVEMENT AREAS. IN ADDITION, THE PAVEMENT AREA IS PROPOSED WITHIN THE LIMITS OF THE EXISTING DRAINAGE MOUND LOCATED ON THE NORTH SIDE OF THE SUBJECT PROPERTY. AFTER REMOVAL OF ALL UNSUITABLE MATERIAL FROM THE PAVEMENT AREA ALL EXPOSED SURFACES SHALL BE THOROUGHLY PROOFCOLLED BY A QUALIFIED PROFESSIONAL TO DELINEATE AREAS OF UNSUITABLE SUBGRADE.

EROSION CONTROL

1. CONTRACTOR SHALL STAGE AND TIME CONSTRUCTION TO MINIMIZE THE SIZE OF EXPOSED SOIL AREAS AND THE TIME BETWEEN EXPOSING THE SOIL AREA AND FINISHING THE SOIL AREA.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING A TASK TO PROVIDE EROSION CONTROL UNLESS ANOTHER PARTY HAS BEEN PREVIOUSLY SPECIFIED AS RESPONSIBLE FOR THE EROSION CONTROL ASSOCIATED WITH THAT TASK. IN THE EVENT ANOTHER PARTY IS RESPONSIBLE FOR EROSION CONTROL, THE CONTRACTOR SHALL STILL BE RESPONSIBLE FOR COORDINATION WITH THE PARTY RESPONSIBLE. IN THE EVENT THAT DAMAGE TO THE CONSTRUCTED ITEM RESULTS ARE DUE TO LACK OF EROSION CONTROL, THE CONTRACTOR SHALL REPAIR OR REPLACE THE ITEM AT NO CHARGE TO THE OWNER.
3. THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/ SEDIMENTATION BARRIER (HAY BALES, SILT FENCE, TURBIDITY BARRIER, OR AS SPECIFIED IN THE CONSTRUCTION DRAWINGS) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND WETLAND OR JURISDICTIONAL AREAS. IF, IN THE OPINION OF THE ENGINEER, AND/OR REGULATORY AUTHORITIES, EXCESSIVE QUANTITIES OF MATERIAL ARE TRANSPORTED OFF-SITE BY EROSION OR STORMWATER RUNOFF, THE CONTRACTOR SHALL IMPROVE CONDITIONS TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER. IN NO CASE SHALL CONSTRUCTION COMMENCE PRIOR TO INSTALLATION OF EROSION CONTROL/SEDIMENTATION BARRIER.
4. CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL (OR AS SPECIFIED IN THE PLANS) ON THE GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT SITE.
5. IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AREA USING SPRINKLING IRRIGATION OR OTHER ACCEPTABLE METHODS.

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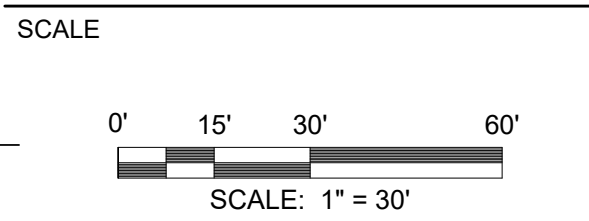
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COA# 8794

CONSTRUCTION DOCUMENTS



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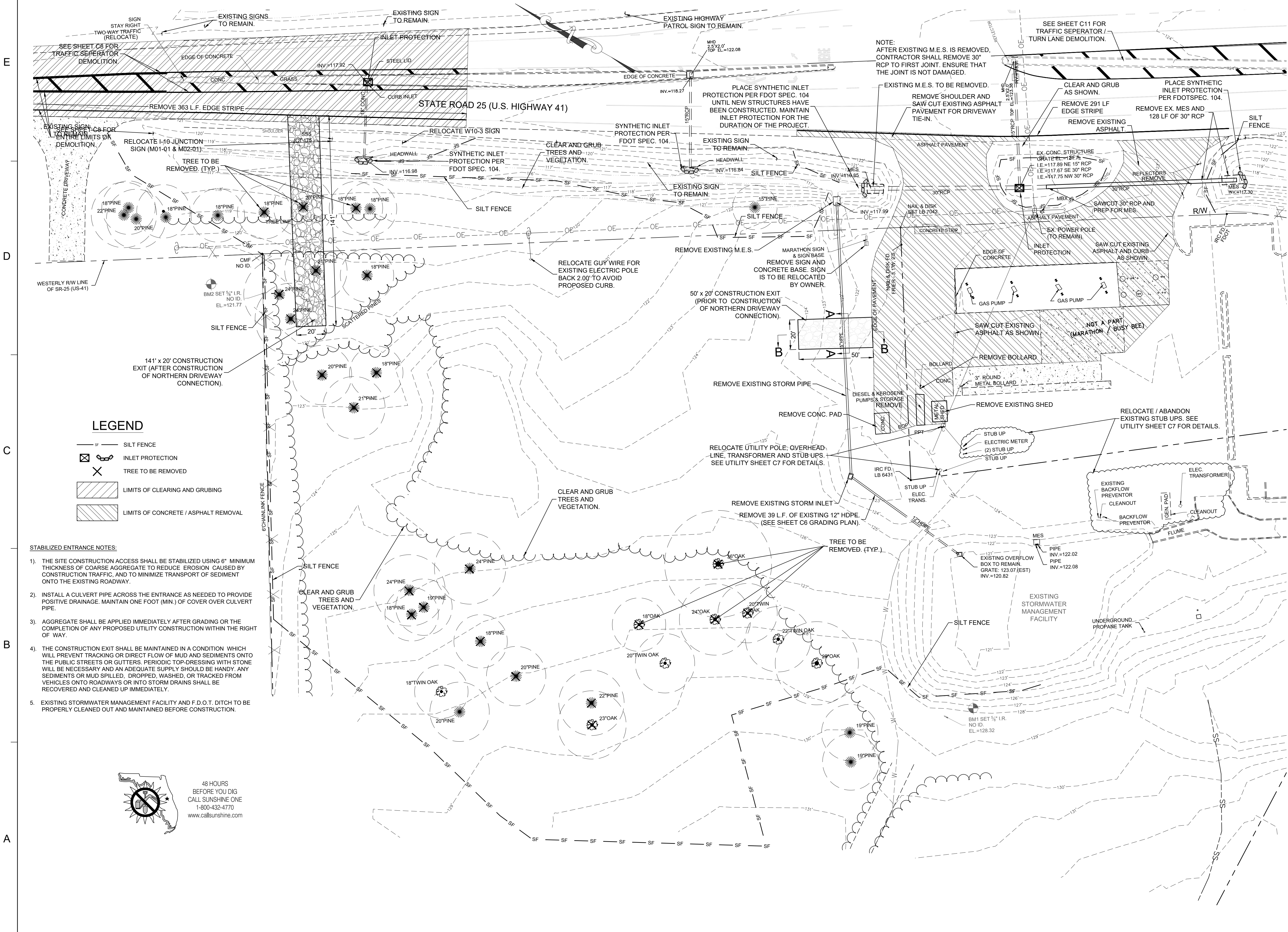
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DEMOLITION AND EROSION CONTROL PLAN

PROJECT NO. 50136924

C4

SHEET NO.

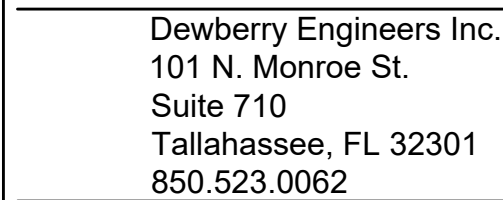


- LEGEND**
- SILT FENCE
 - INLET PROTECTION
 - TREE TO BE REMOVED
 - LIMITS OF CLEARING AND GRUBBING
 - LIMITS OF CONCRETE / ASPHALT REMOVAL

STABILIZED ENTRANCE NOTES:

1. THE SITE CONSTRUCTION ACCESS SHALL BE STABILIZED USING 6" MINIMUM THICKNESS OF COARSE AGGREGATE TO REDUCE EROSION CAUSED BY CONSTRUCTION TRAFFIC, AND TO MINIMIZE TRANSPORT OF SEDIMENT ONTO THE EXISTING ROADWAY.
2. INSTALL A CULVERT PIPE ACROSS THE ENTRANCE AS NEEDED TO PROVIDE POSITIVE DRAINAGE. MAINTAIN ONE FOOT (MIN.) OF COVER OVER CULVERT PIPE.
3. AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING OR THE COMPLETION OF ANY PROPOSED UTILITY CONSTRUCTION WITHIN THE RIGHT OF WAY.
4. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD AND SEDIMENTS ONTO THE PUBLIC STREETS OR GUTTERS. PERIODIC TOP-DRESSING WITH STONE WILL BE NECESSARY AND AN ADEQUATE SUPPLY SHOULD BE HANDY. ANY SEDIMENTS OR MUD SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE RECOVERED AND CLEANED UP IMMEDIATELY.
5. EXISTING STORMWATER MANAGEMENT FACILITY AND F.D.O.T. DITCH TO BE PROPERLY CLEANED OUT AND MAINTAINED BEFORE CONSTRUCTION.

48 HOURS
BEFORE YOU DIG
CALL SUNSHINE ONE
1-800-432-4770
www.callsunshine.com



BUSY BEE #7

SEAL

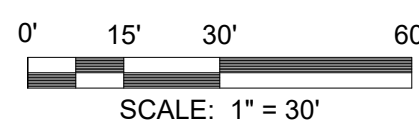
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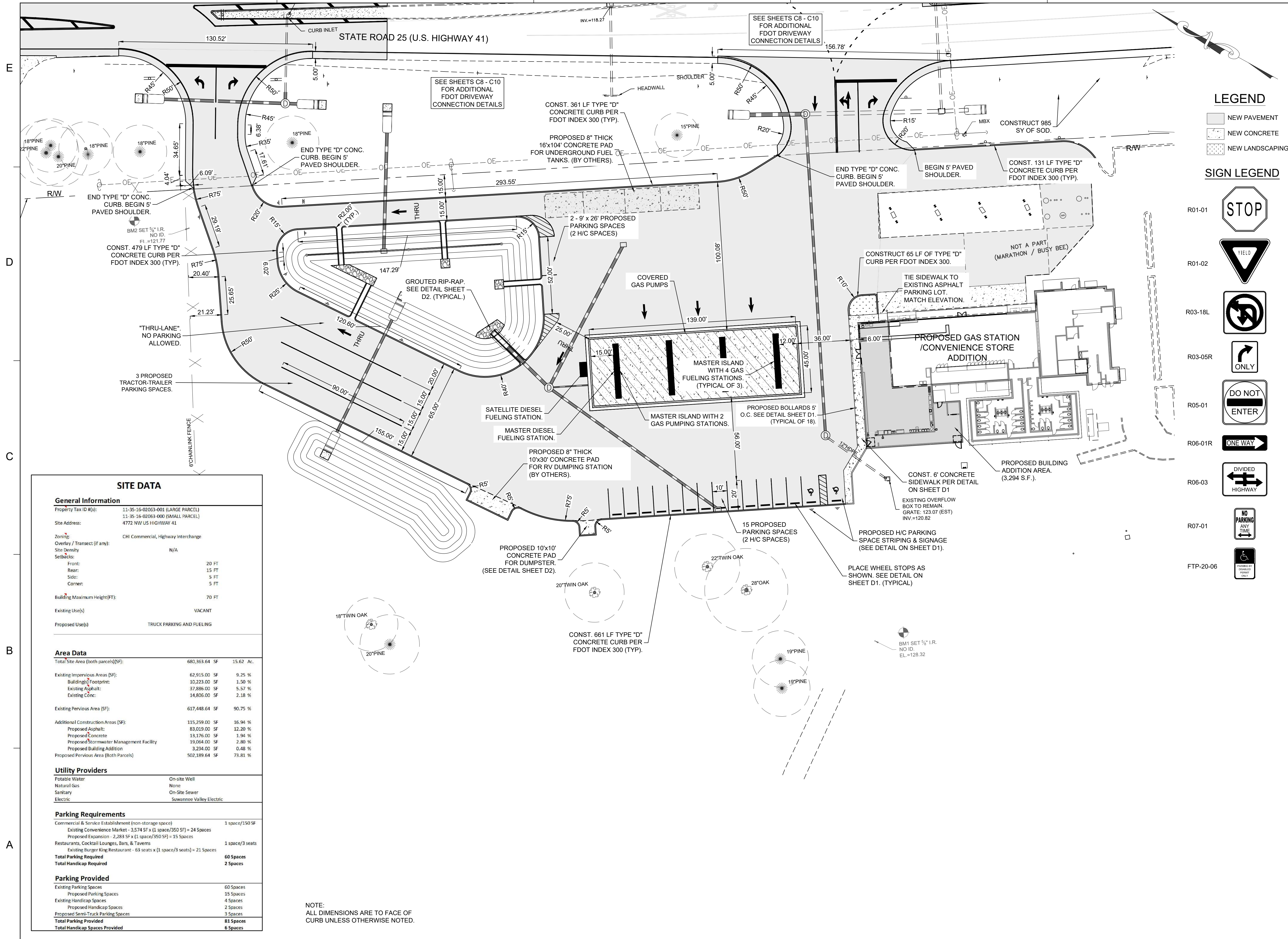
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SITE LAYOUT, SIGNING AND PAVING PLAN

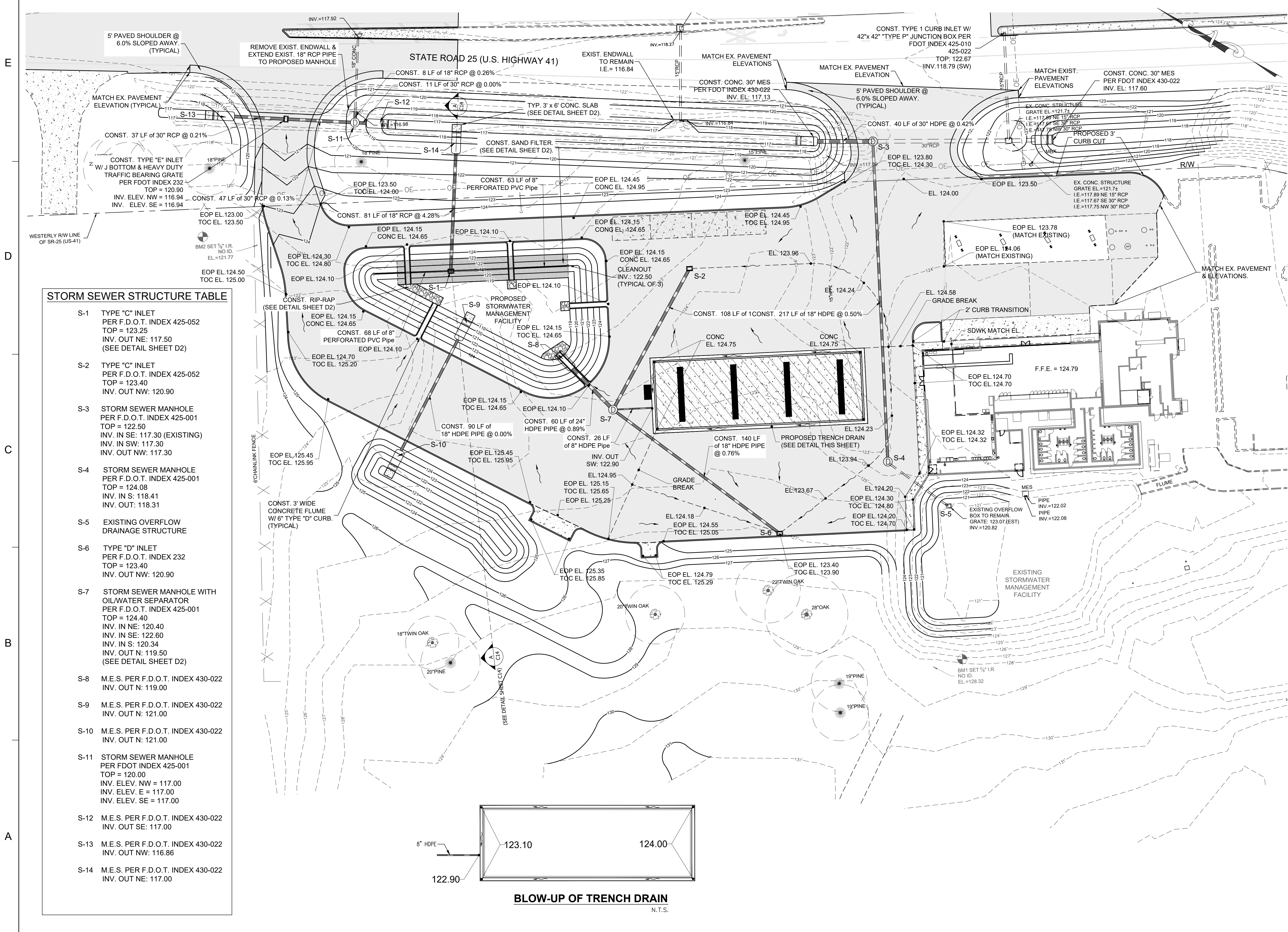
PROJECT NO.	50136924
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C5

SHEET NO.



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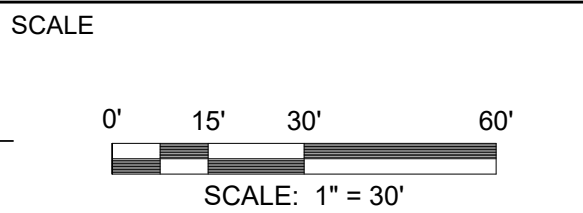
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BUSY BEE #7
SERVICE AREA EXPANSION
JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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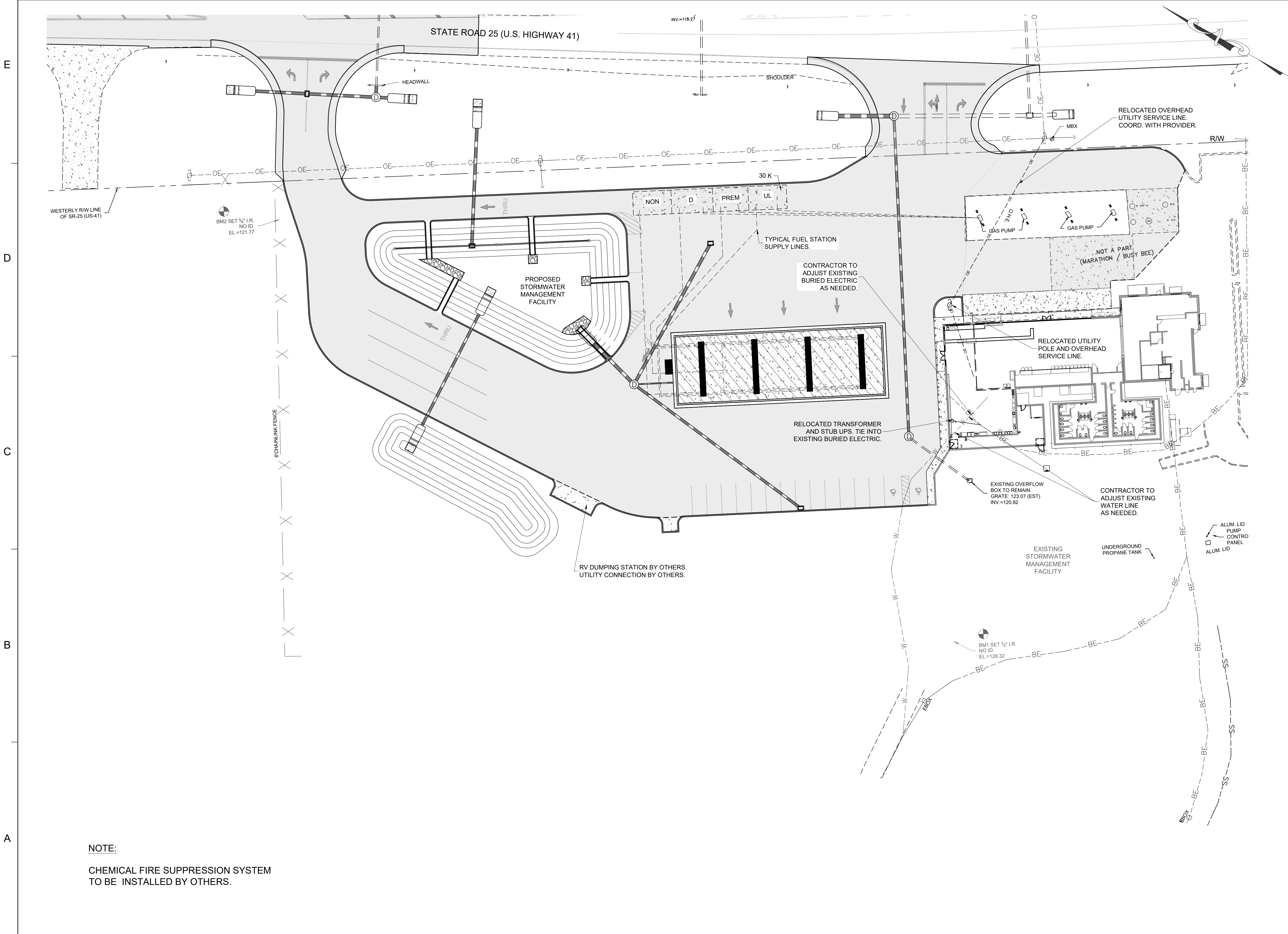
GRADING PLAN

PROJECT NO. 50136924

C6

SHEET NO.

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101 N. Monroe St.
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BUSY BEE #7

SERVICE AREA EXPANSION

JOHNSON & JOHNSON, INC.

COLUMBIA COUNTY, FLORIDA

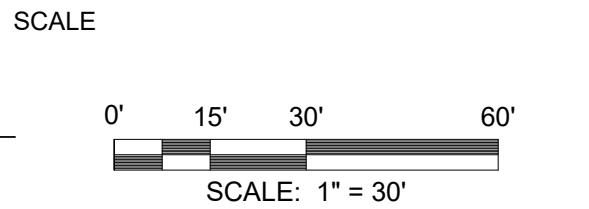
SEAL

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WILLIAM A. MENADIER, P.E. 74581
COA# 8794

CONSTRUCTION DOCUMENTS



REVISIONS		

NO.	DESCRIPTION	DATE

DRAWN BY JAL

APPROVED BY WAM

CHECKED BY JAL

DATE AUGUST 2021

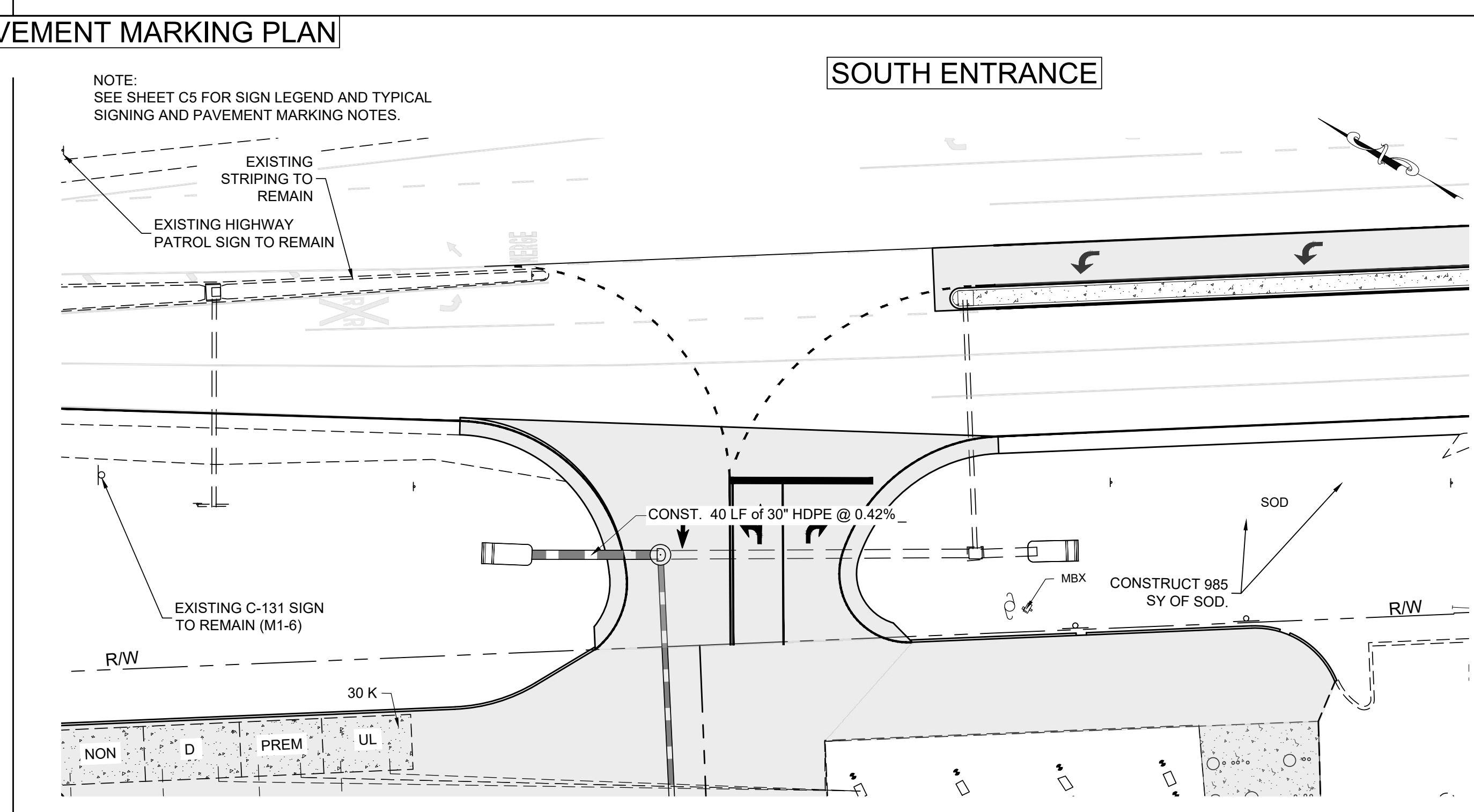
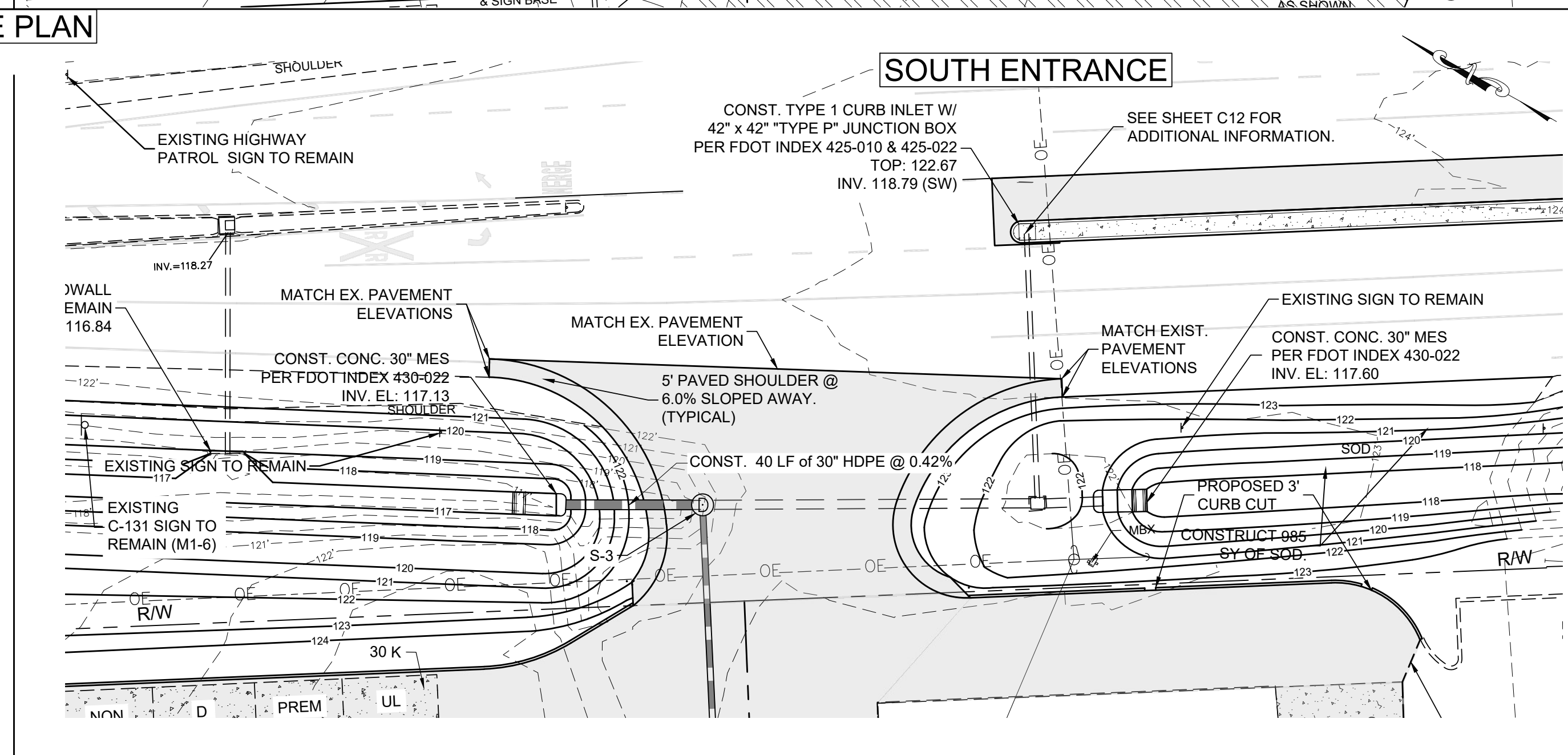
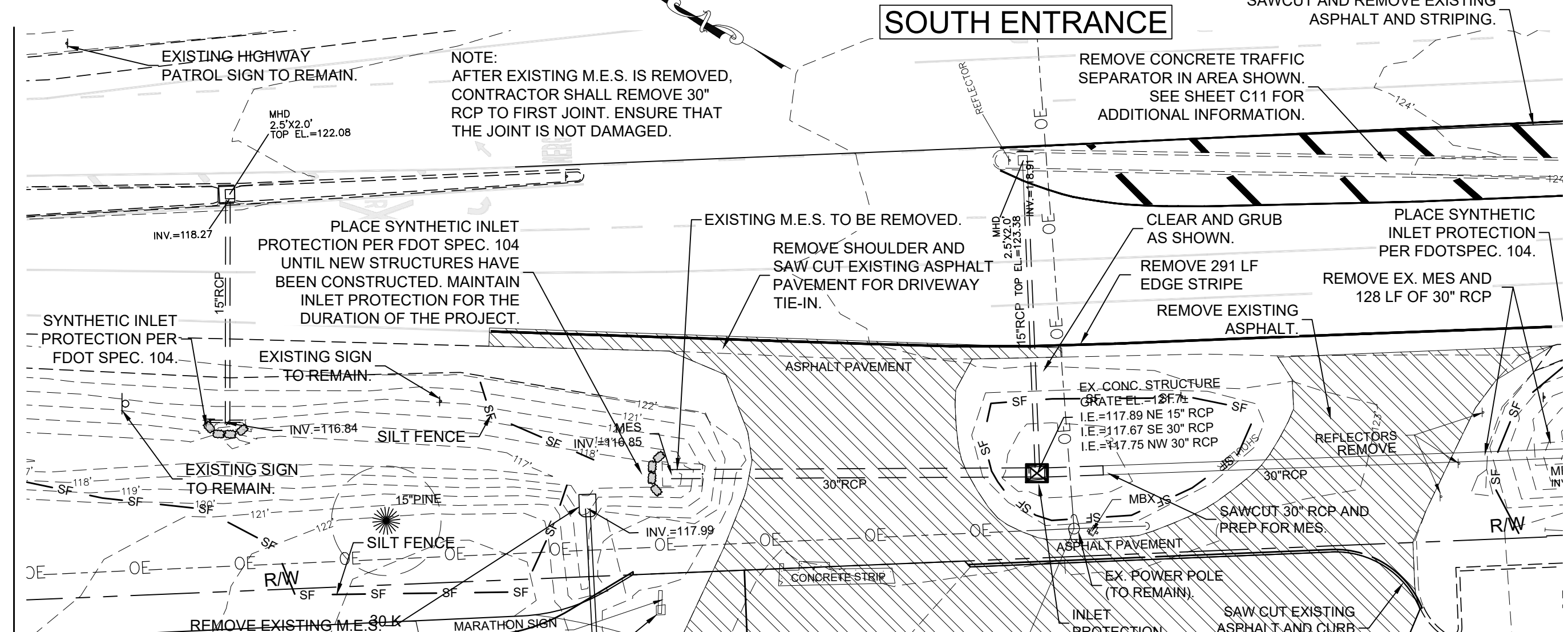
TITLE

UTILITY PLAN

PROJECT NO. 50136924

C7

SHEET NO.



SHEET NO. _____

BUSY BEE #7

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WILLIAM A. MENADIER, P.E. 74581
COA# 8794

CONSTRUCTION DOCUMENTS

SCALE

0' 15' 30' 60'

SCALE: 1" = 30'

REVISIONS		
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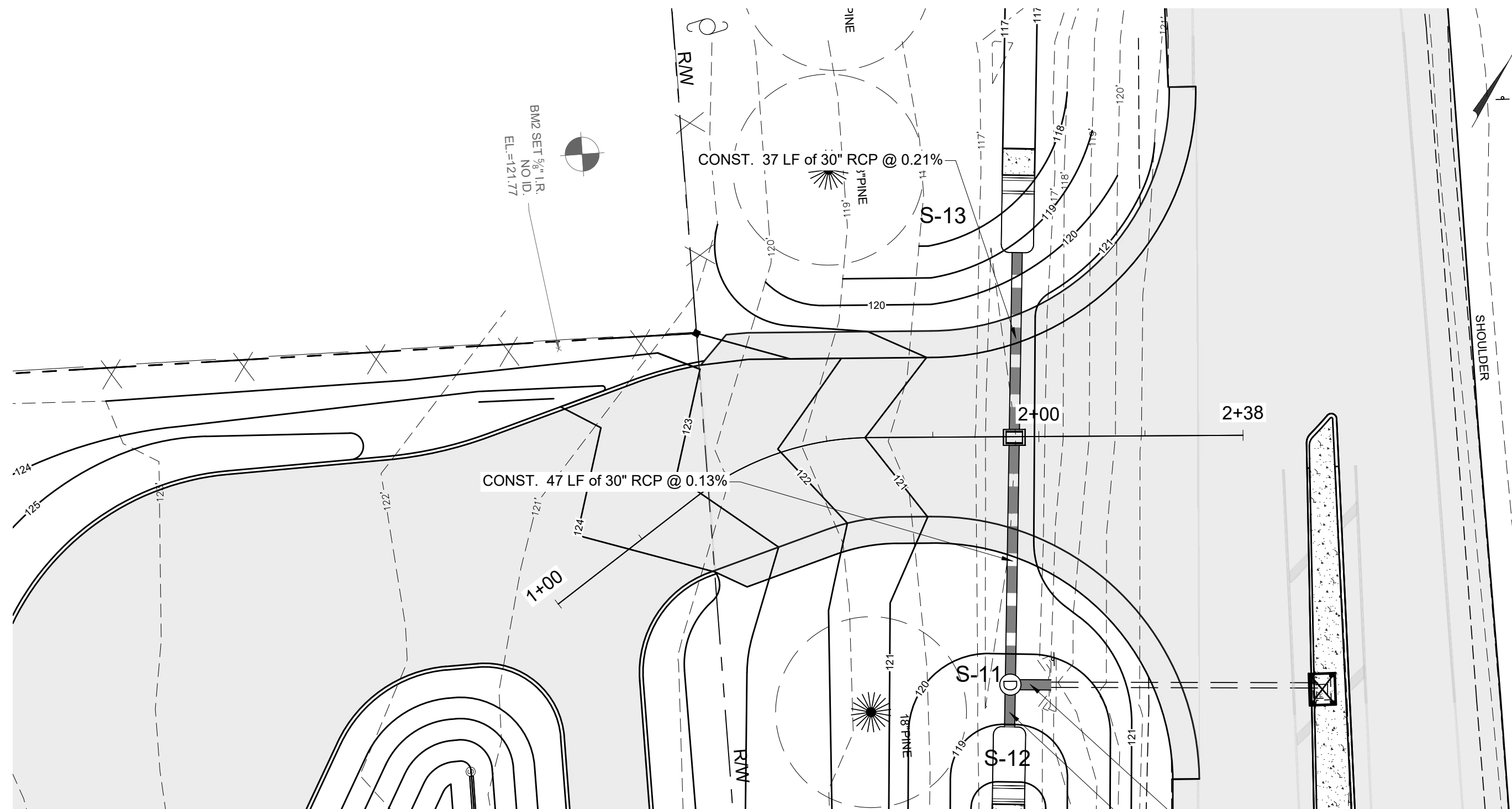
DATE _____ AUGUST 2021

TITLE

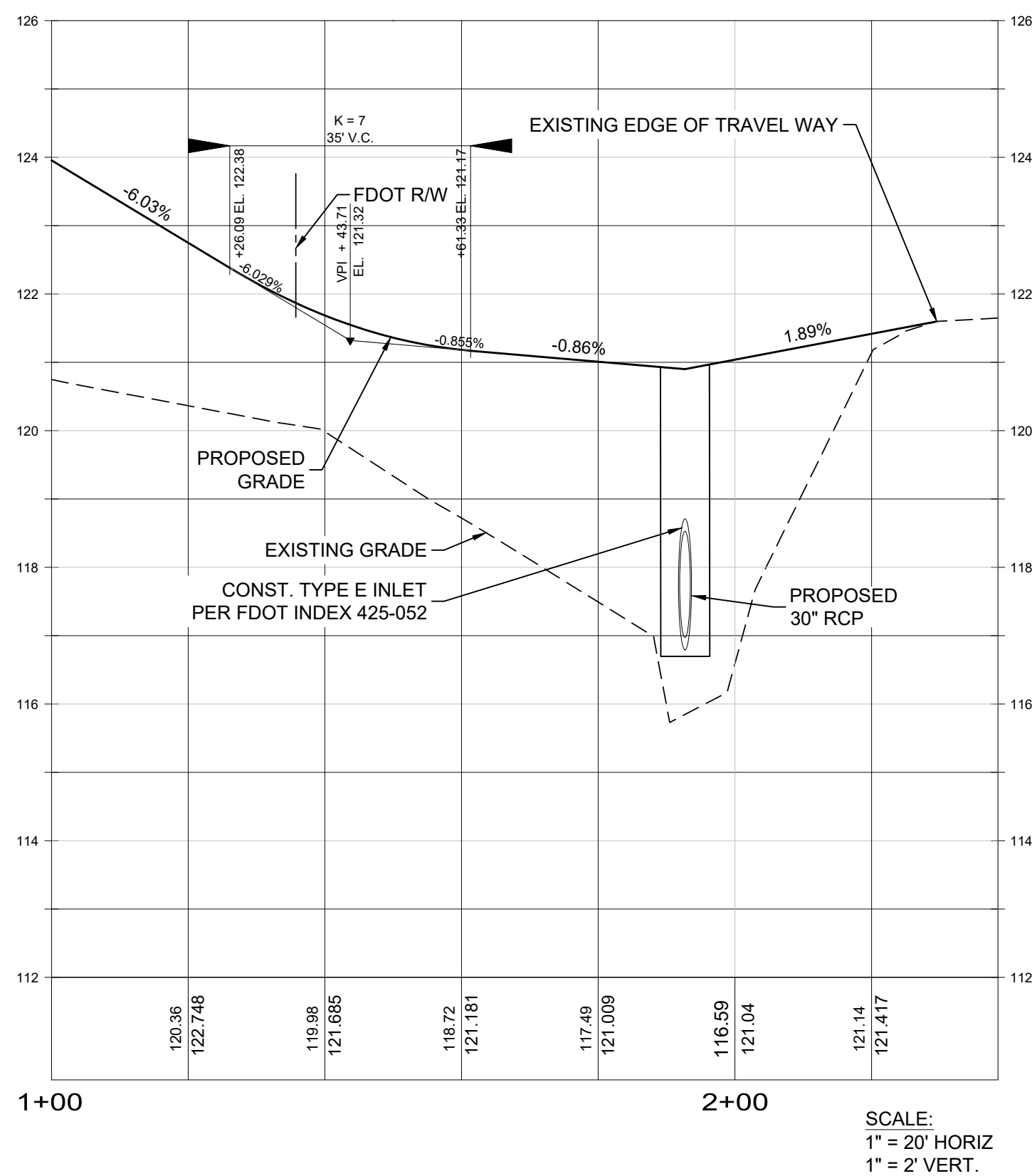
DRIVEWAY
CONNECTION
PLAN AND
PROFILES

PROJECT NO. 50136924

SHEET NO.

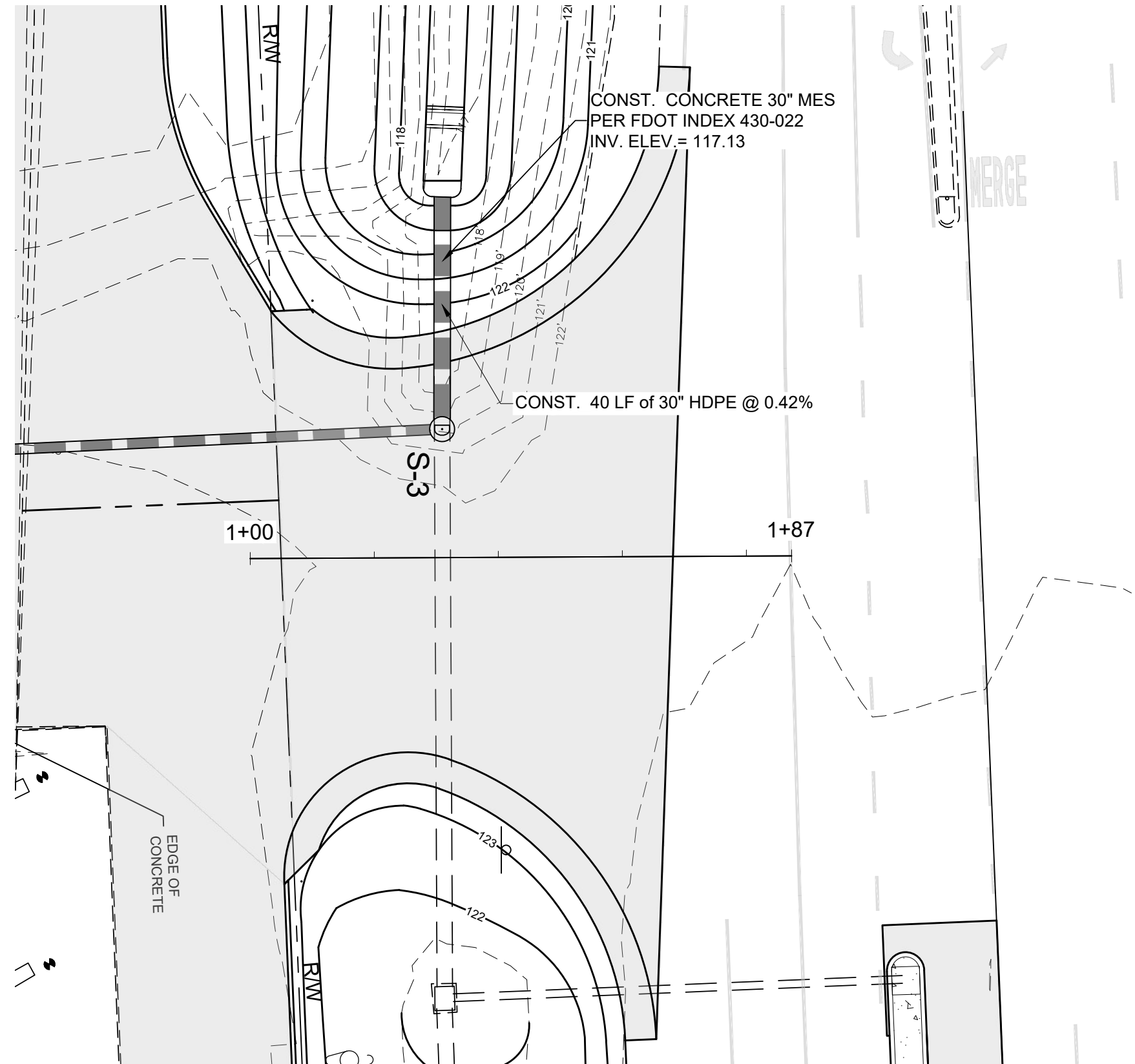


PLAN
NORTHERN DRIVEWAY CONNECTION
SCALE: 1" = 30'

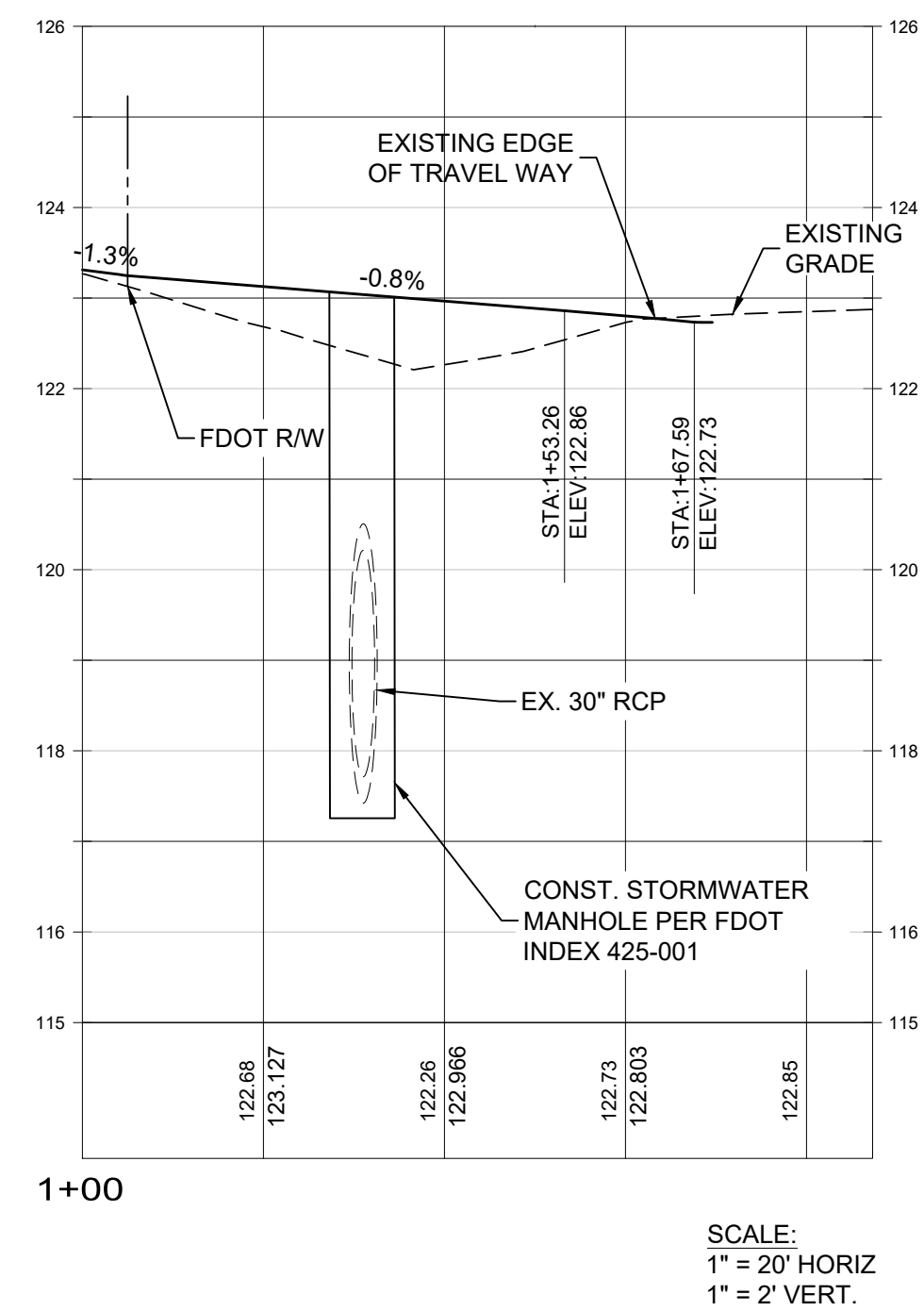


PROFILE

NORTHERN DRIVEWAY CONNECTION



PLAN
SOUTHERN DRIVEWAY CONNECTION
SCALE: 1" = 30'



PROFILE

SOUTHERN DRIVEWAY CONNECTION



Dewberry Engineers Inc.
101 N. Monroe St.
Suite 710
Tallahassee, FL 32301
850.523.0062

BUSY BEE #7

SERVICE AREA EXPANSION

JOHNSON & JOHNSON, INC.

COLUMBIA COUNTY, FLORIDA

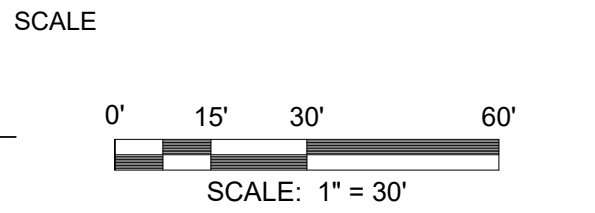
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DATE AUGUST 2021

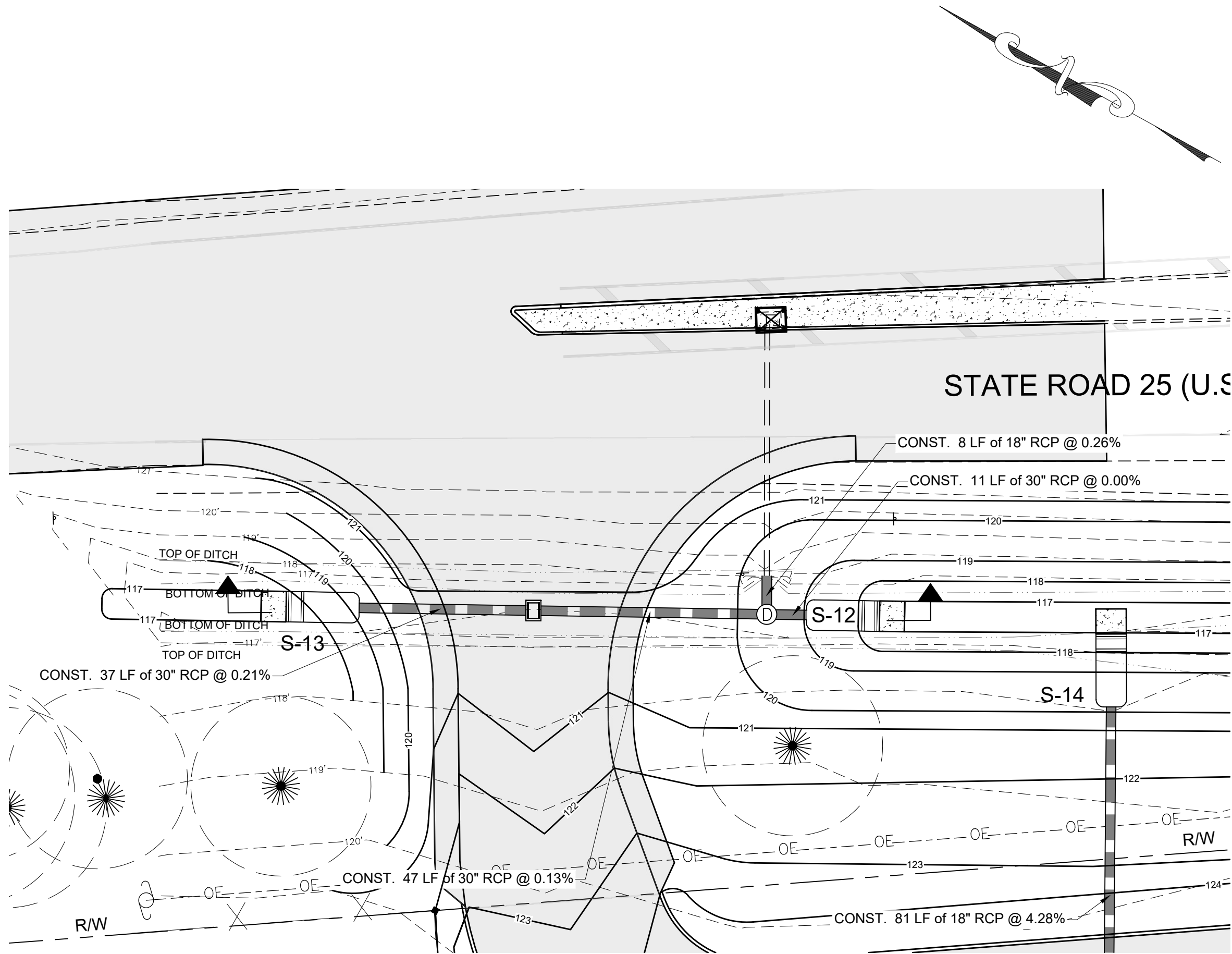
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DRIVEWAY CONNECTION CROSS SECTIONS

PROJECT NO. 50136924

C10

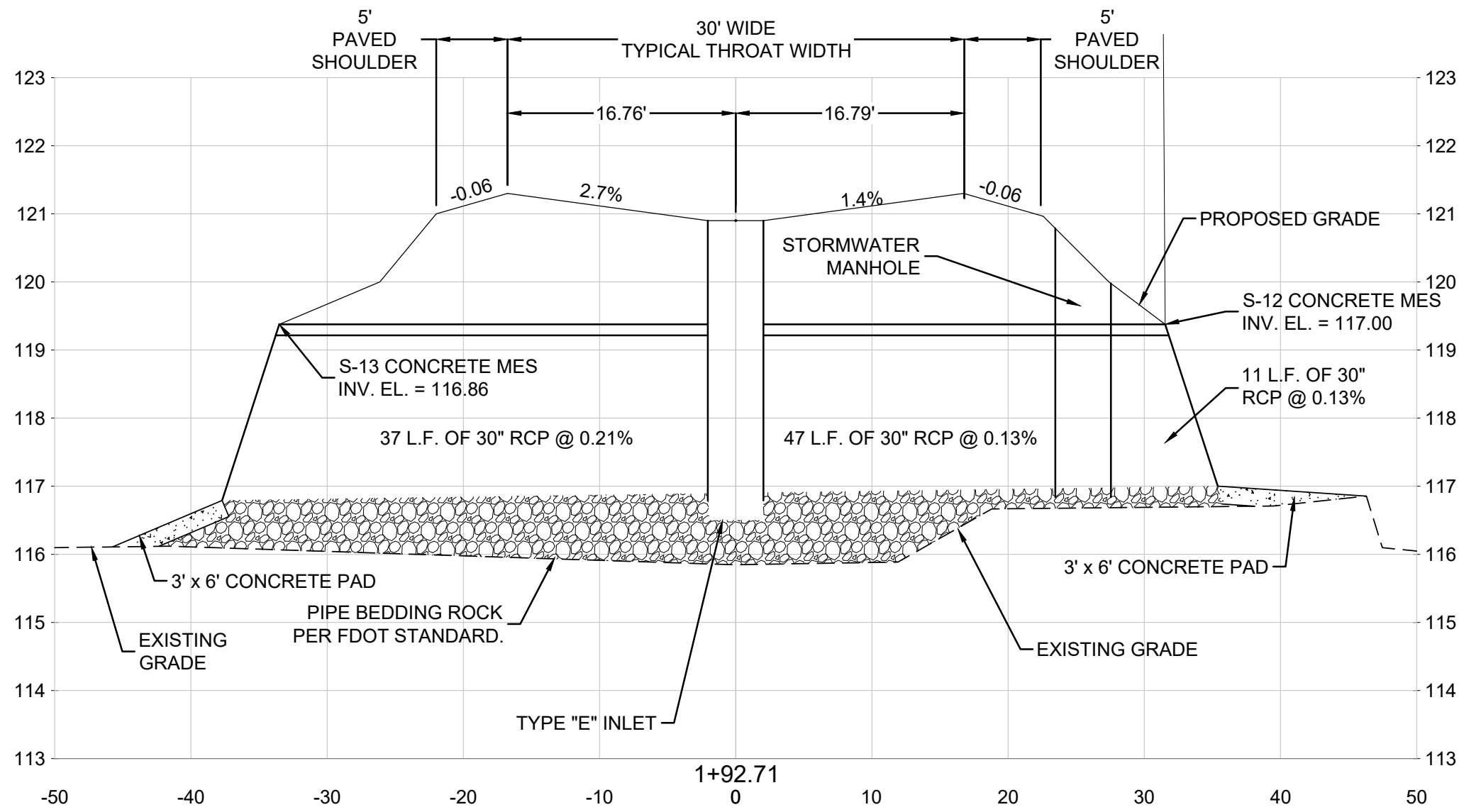
SHEET NO.



PLAN

NORTHERN DRIVEWAY CONNECTION

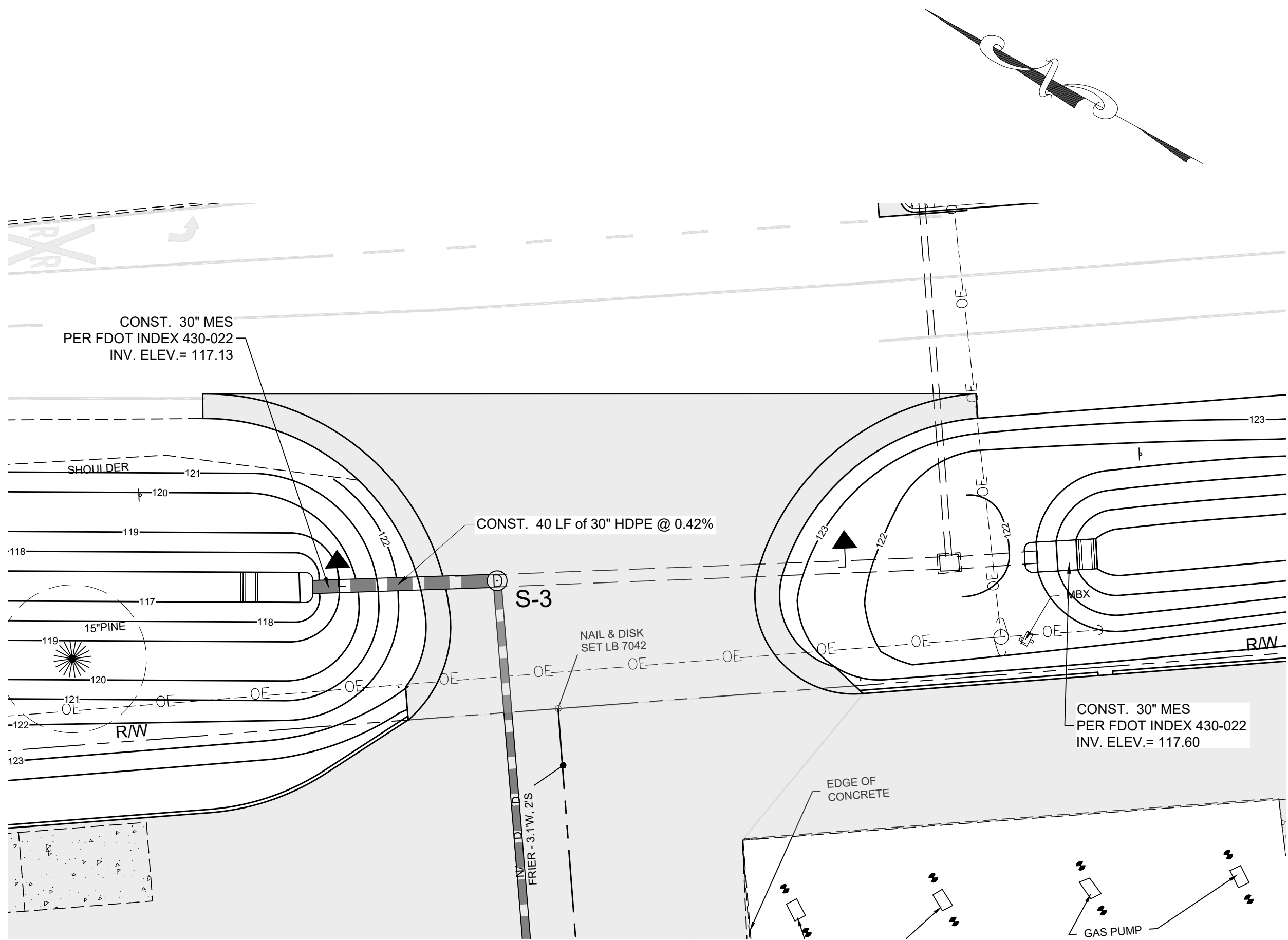
SCALE: 1" = 20'



SECTION

NORTHERN DRIVEWAY CONNECTION

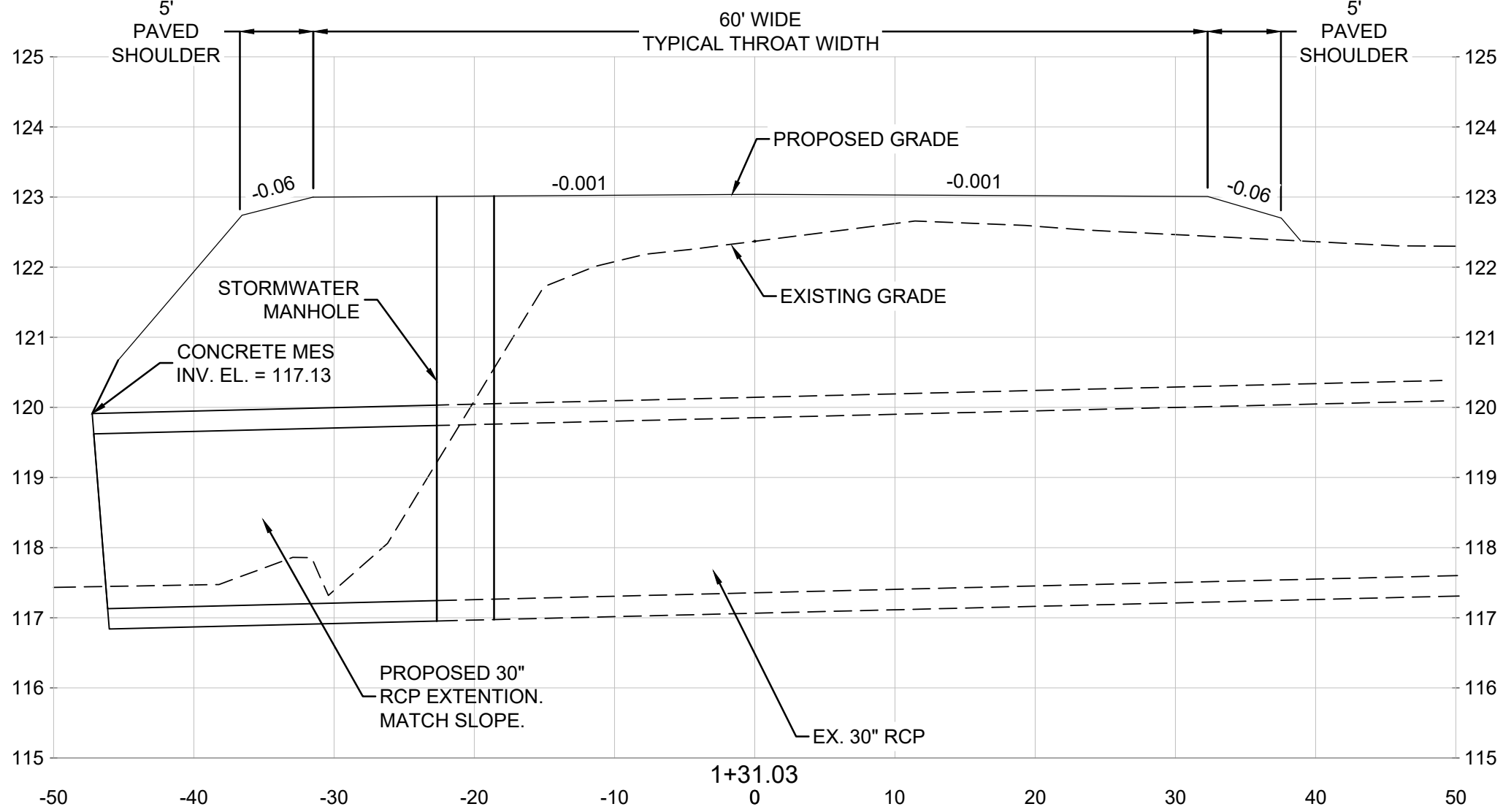
SCALE:
1" = 10' HORIZ
1" = 2' VERT.



PLAN

SOUTHERN DRIVEWAY CONNECTION

SCALE: 1" = 20'



SECTION

SOUTHERN DRIVEWAY CONNECTION

SCALE:
1" = 10' HORIZ
1" = 2' VERT.

BUSY BEE #7

SERVICE AREA EXPANSION

JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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COA# 8794

CONSTRUCTION DOCUMENTS

SCALE

0' 15' 30' 60'

SCALE: 1" = 30'

REVISIONS

[illegible]

NO.	DESCRIPTION	DATE
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DATE AUGUST 2021

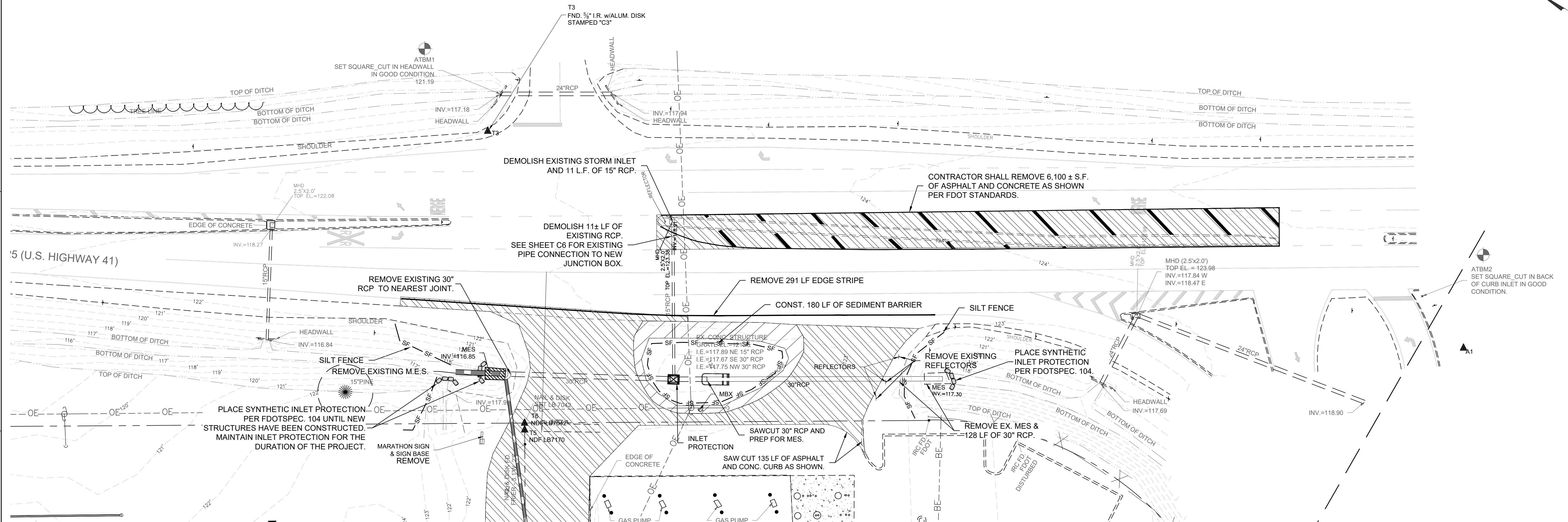
TITLE

TURN LANE
DEMOLITION &
EROSION
CONTROL

PROJECT NO. 50093979

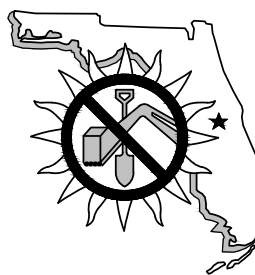
C11

SHEET NO.



LEGEND

- SF — SILT FENCE
-  INLET PROTECTION
-  LIMITS OF CLEARING AND GRUBBING
-  LIMITS OF CONCRETE / ASPHALT REMOVAL



48 HOURS
BEFORE YOU DIG
CALL SUNSHINE ONE
1-800-432-4770
www.callsunshine.com

SEAL

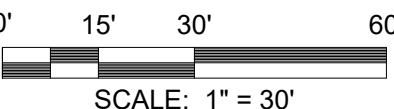
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COA# 8794

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SCALE



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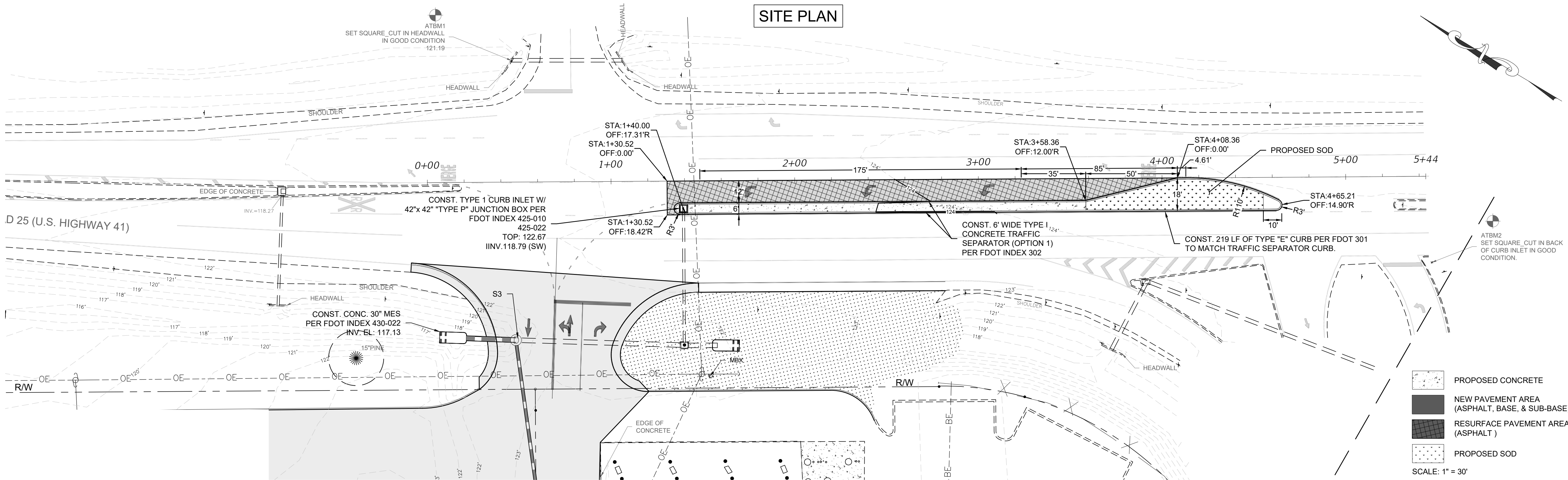
TURN LANE
PLAN VIEW

PROJECT NO. 50093979

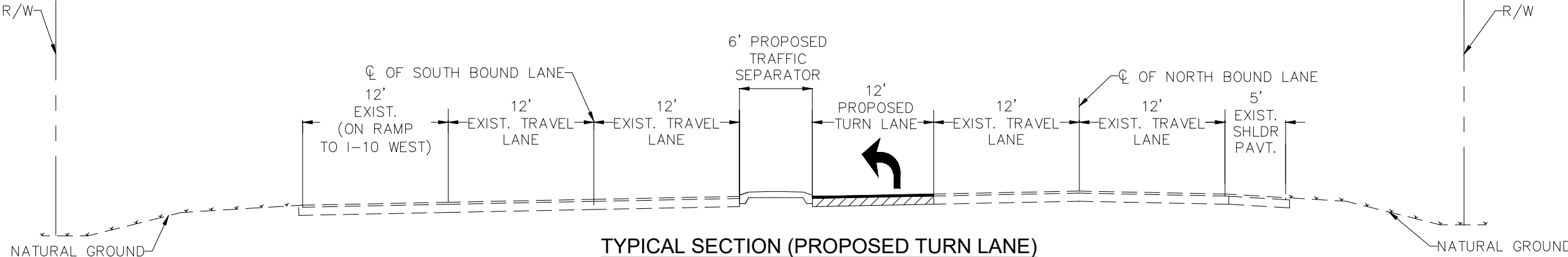
C12

SHEET NO.

SITE PLAN



TYPICAL R/W (VARIES)



TYPICAL SECTION (PROPOSED TURN LANE)

STA. 01+45.35 TO STA. 04+65.21

POSTED SPEED 45 M.P.H.

SCALE: 1" = 10'

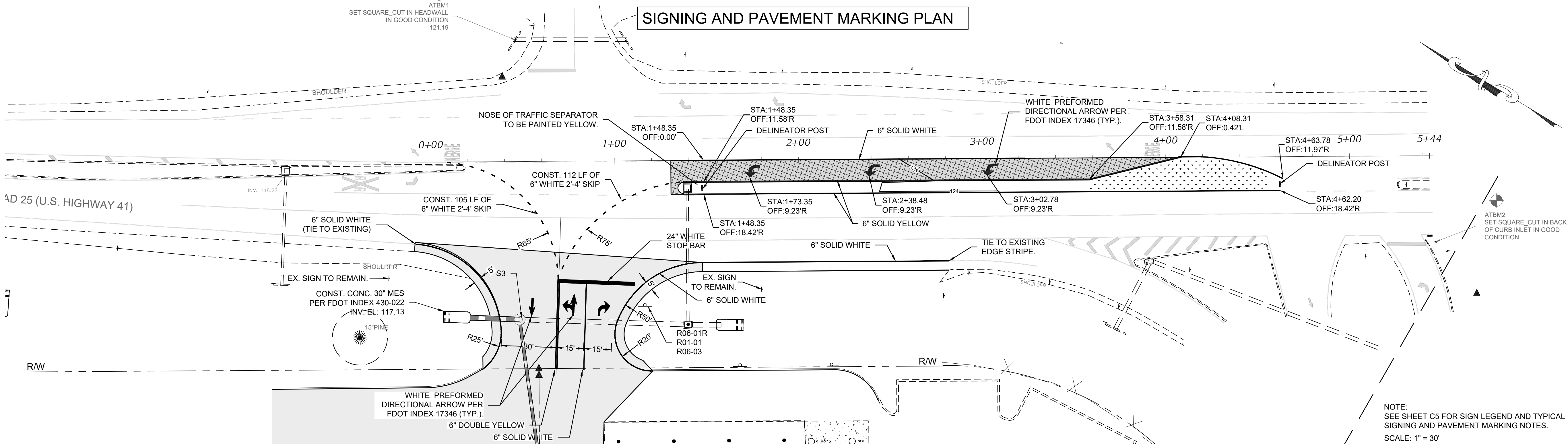
NEW PAVEMENT
3" TYPE SP 9.5 ASPHALTIC CONCRETE (PLACED IN 2-1.5" LIFTS)
1" TYPE FC 9.5 ASPHALTIC CONCRETE
OPTIONAL BASE GROUP 6 (8" LIMEROCK) LBR 100, 98% MODIFIED PROCTOR
12" TYPE "B" STABILIZATION (MIN. LBR 40, 95% MODIFIED PROCTOR)

RESURFACE PAVEMENT
3" TYPE SP 9.5 ASPHALTIC CONCRETE (PLACED IN 2- 1.5" LIFTS)
1" TYPE FC 9.5 ASPHALTIC CONCRETE

NOTE:
THE FIRST LAYER SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF THE BASE COURSE. THE FINAL LAYER SHALL BE PLACED AT THE COMPLETION OF THE PROJECT AND SHALL MEET ALL REQUIREMENTS (INCLUDING MIXING AND PLACING REQUIREMENTS) AS SET FORTH BY FDOT FOR AN ASPHALTIC CONCRETE SURFACE COURSE TYPE SP 9.5.

PROVIDE BITUMINOUS TACK COAT BETWEEN ASPHALT COURSES.

SIGNING AND PAVEMENT MARKING PLAN



NOTE:
SEE SHEET C5 FOR SIGN LEGEND AND TYPICAL SIGNING AND PAVEMENT MARKING NOTES.
SCALE: 1" = 30'

BUSY BEE #7

SERVICE AREA EXPANSION

JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

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COA# 8794

CONSTRUCTION DOCUMENTS

SCALE

AS SHOWN

REVISIONS

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NO.	DESCRIPTION	DATE
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— CHECKED BY JAL

DATE AUGUST 2021

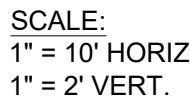
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CROSS SECTIONS

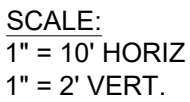
PROJECT NO.	50093979
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C13

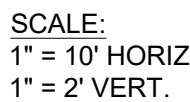
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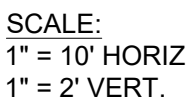
Total Volume at Station 2+50.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



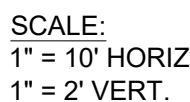
Total Volume at Station 4+00.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



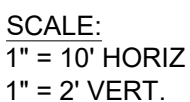
Total Volume at Station 2+00.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



Total Volume at Station 3+50.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



Total Volume at Station 1+50.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



Total Volume at Station 3+00.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00

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SERVICE AREA EXPANSION

JOHNSON & JOHNSON, INC.
COLUMBIA COUNTY, FLORIDA

BUSY BEE #7

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COA# 8794

CONSTRUCTION DOCUMENTS

SCALE

REVISIONS

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NO.	DESCRIPTION	DATE
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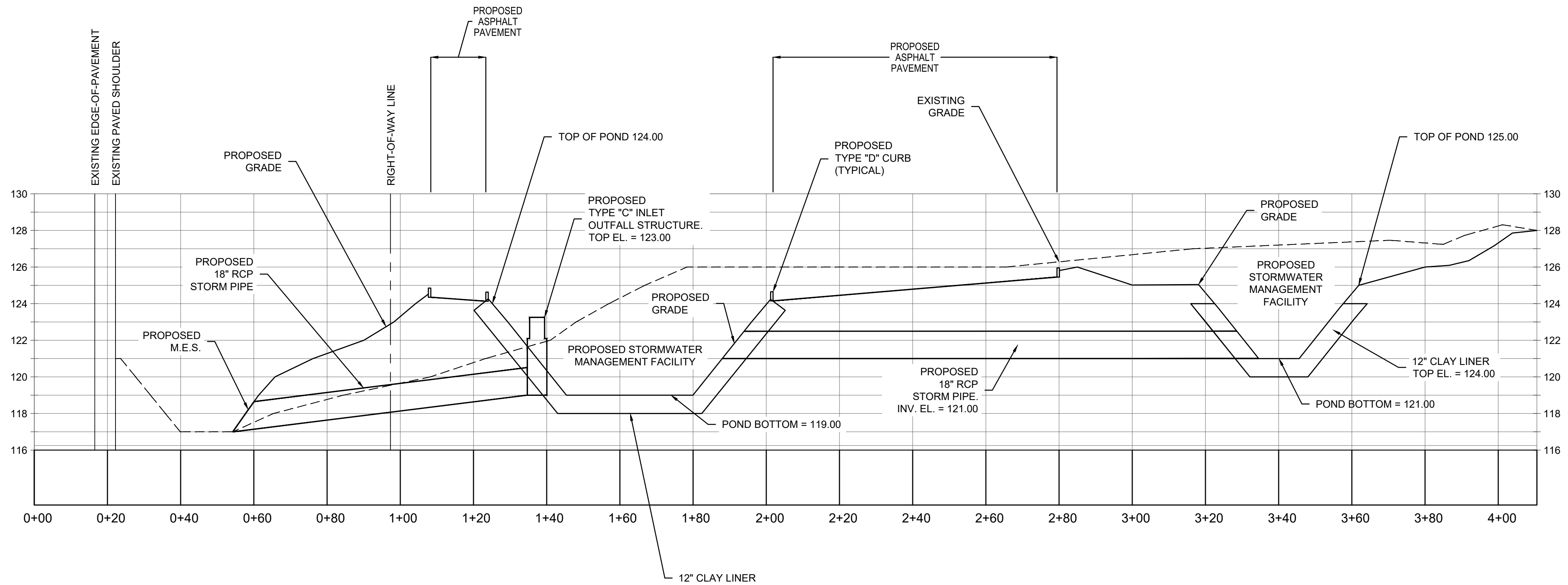
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CROSS SECTIONS

PROJECT NO.	50093979
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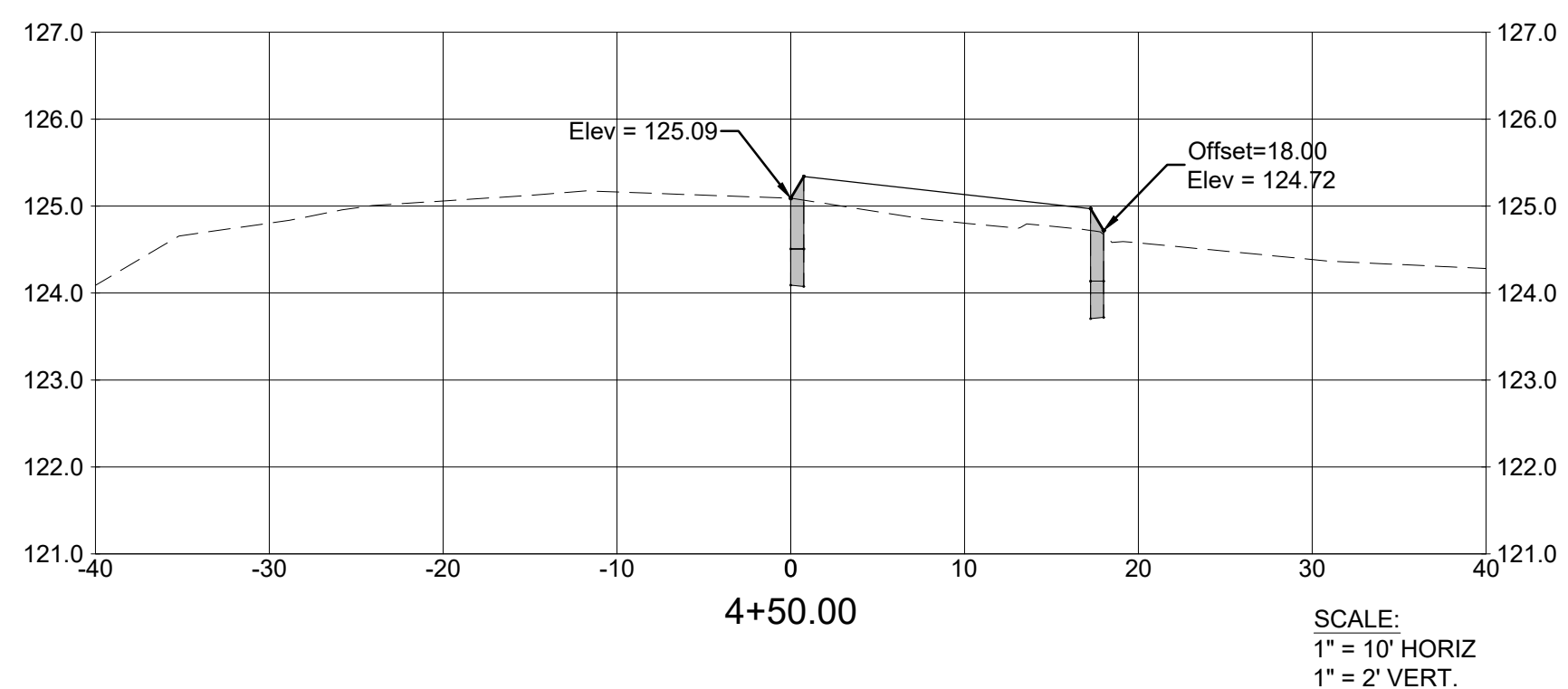
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SHEET NO.

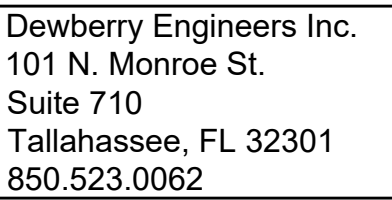


CROSS SECTION "A"

SCALE:
1" = 2' HORIZ
1" = 2' VERT.



Total Volume at Station 4+50.00	
Cut Area	0.00
Fill Area	0.00
Cut Vol	0.00
Fill Vol	0.00
Cum Cut Vol	0.00
Cum Fill Vol	0.00
Net Vol	0.00



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COLUMBIA COUNTY, FLORIDA

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COA# 8794

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SCALE

0' 20' 40' 80'

SCALE: 1" = 40'

REVISIONS		
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CHECKED BY _____ JAL

DATE _____ AUGUST 2021

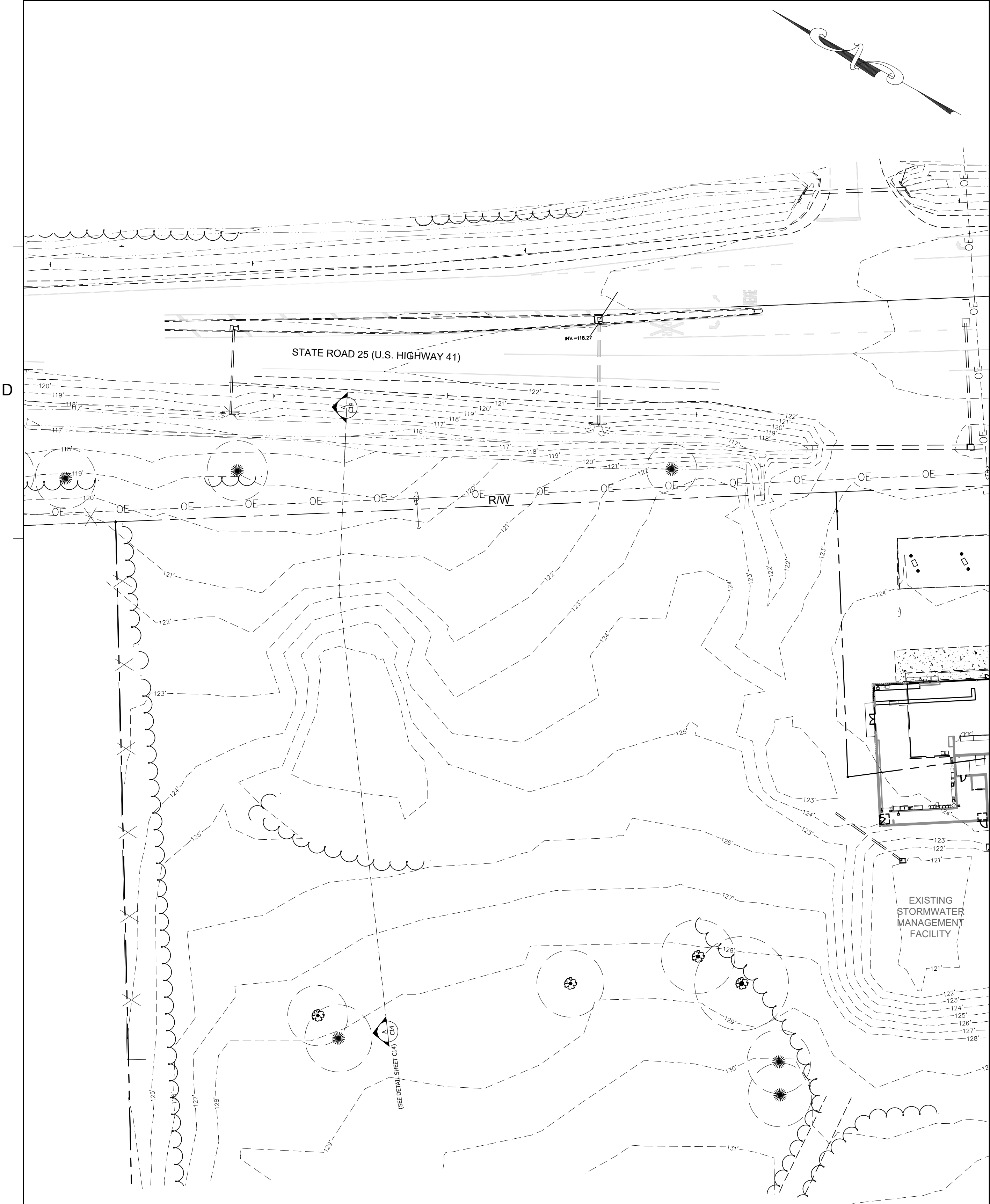
TITLE

PRE & POST
BASIN
MAPS

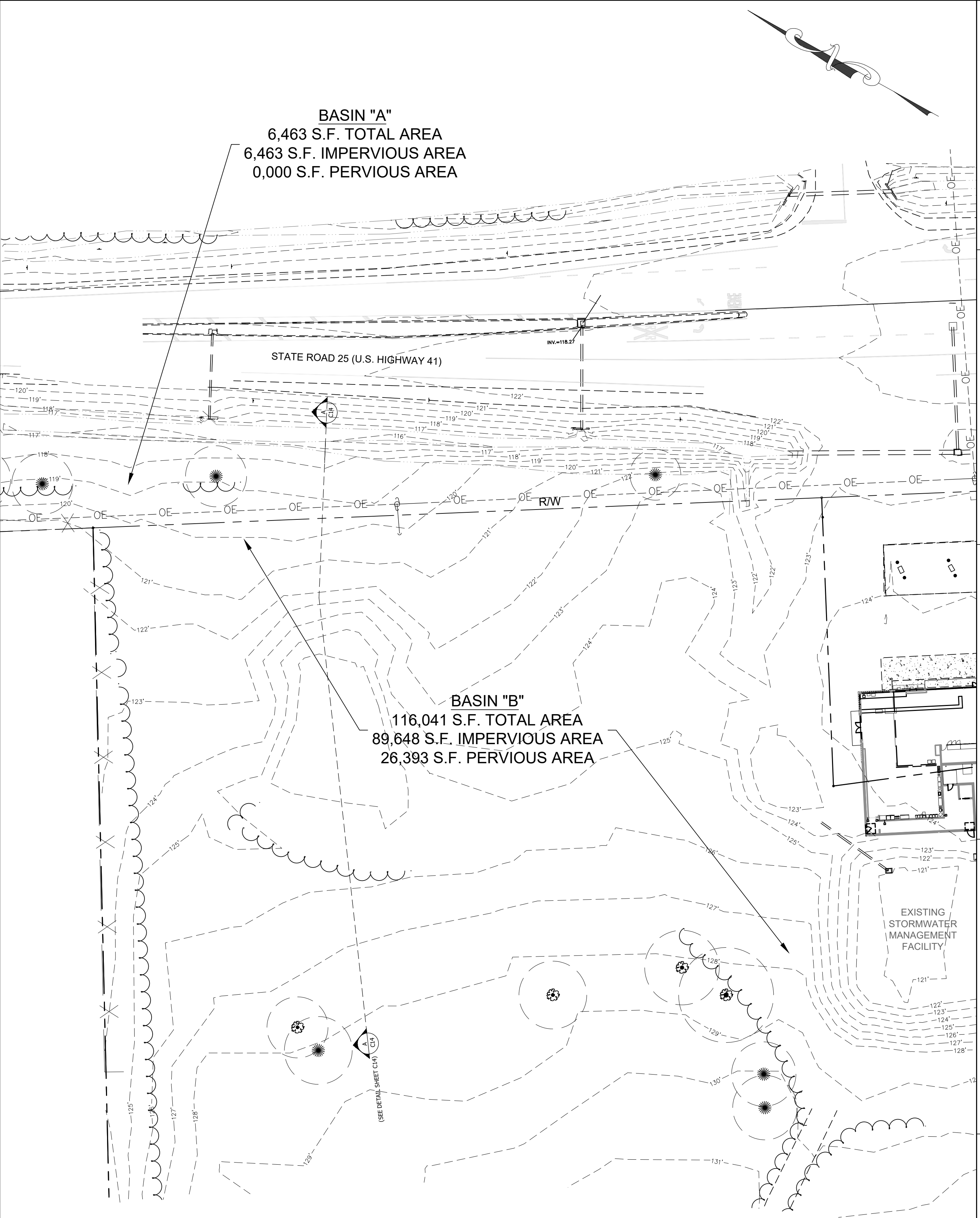
PROJECT NO.	50136924
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C15

SHEET NO.



PRE BASIN MAP



POST BASIN MAP

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SERVICE AREA EXPANSION

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COLUMBIA COUNTY, FLORIDA

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COA# 8794

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SCALE

NO SCALE

REVISIONS

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NO.	DESCRIPTION	DATE
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CHECKED BY	WAM
DATE	AUGUST 2021

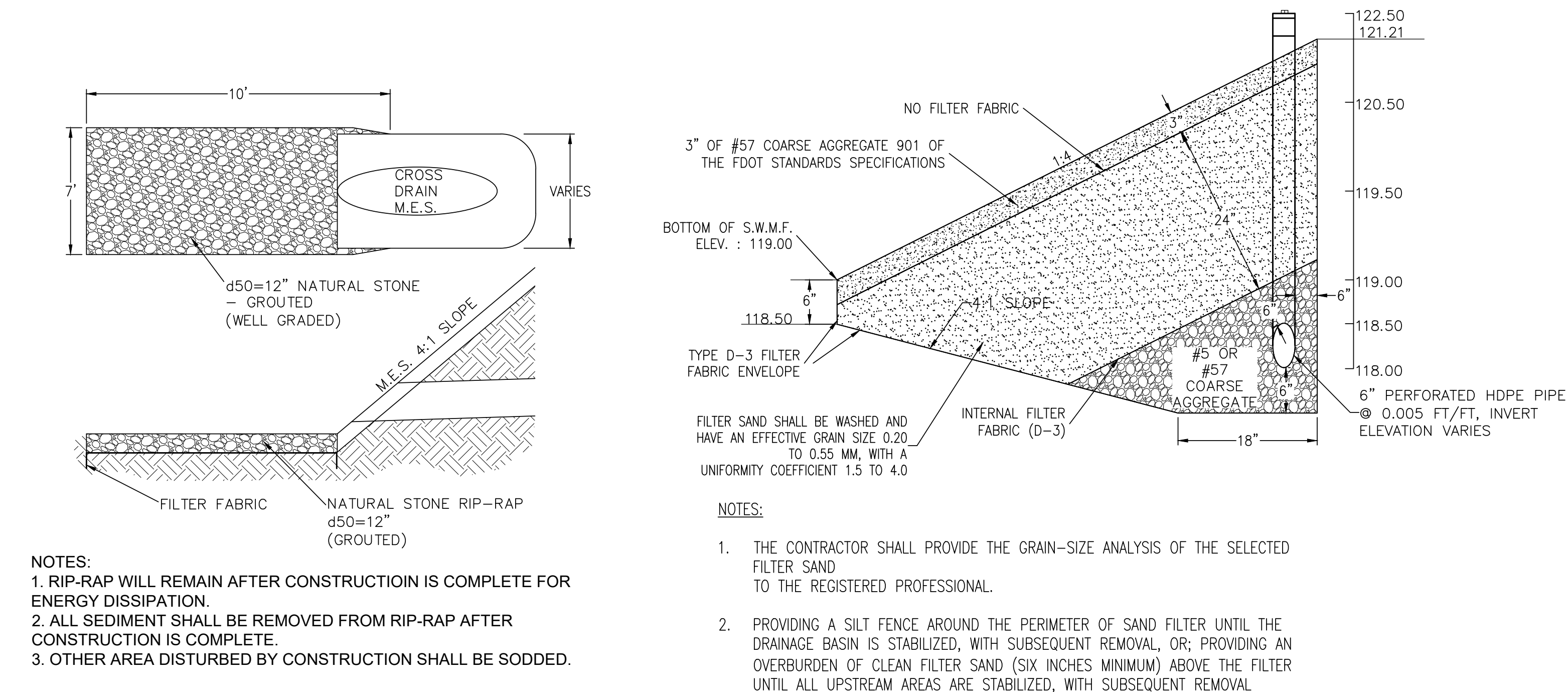
TITLE _____

SITE DETAILS

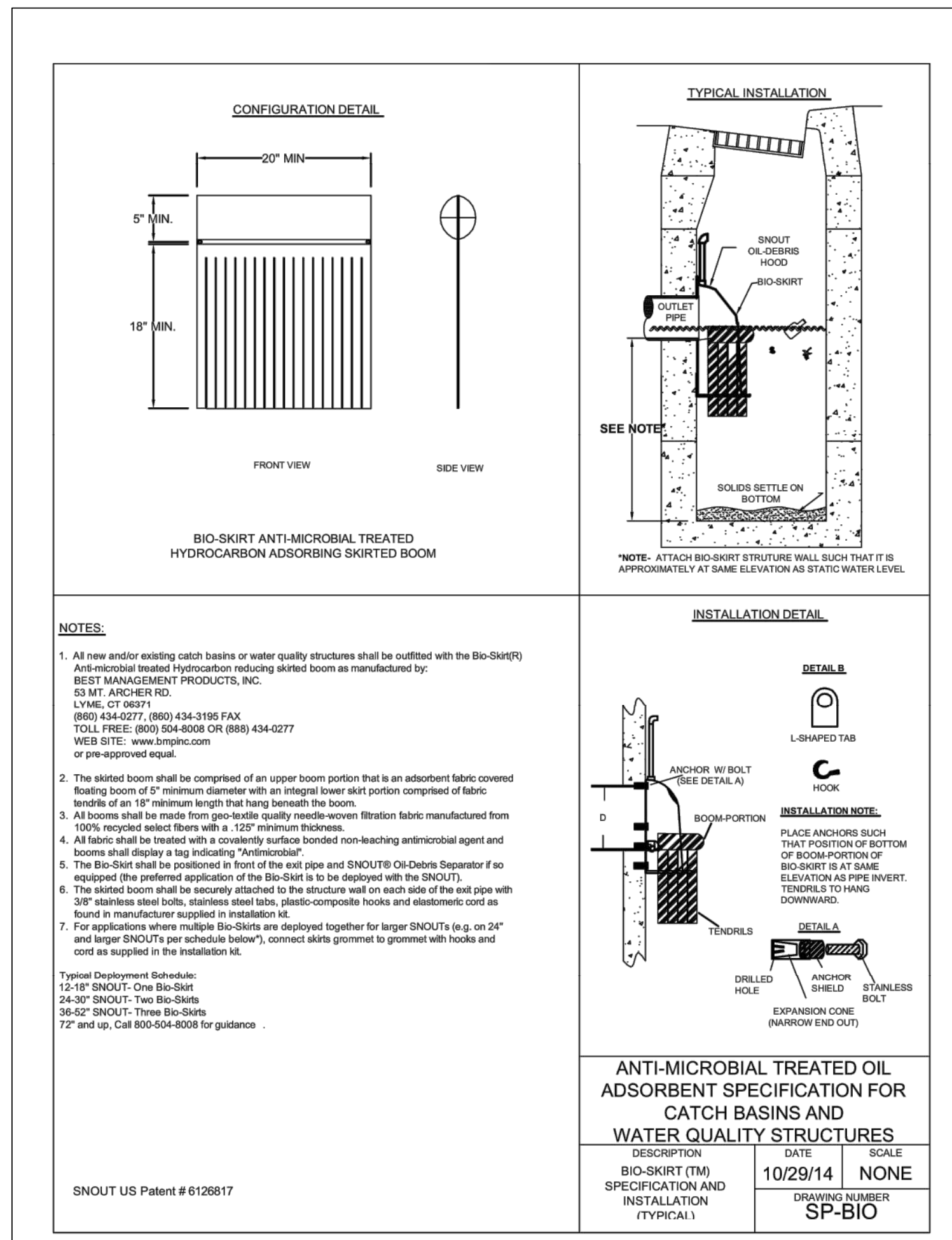
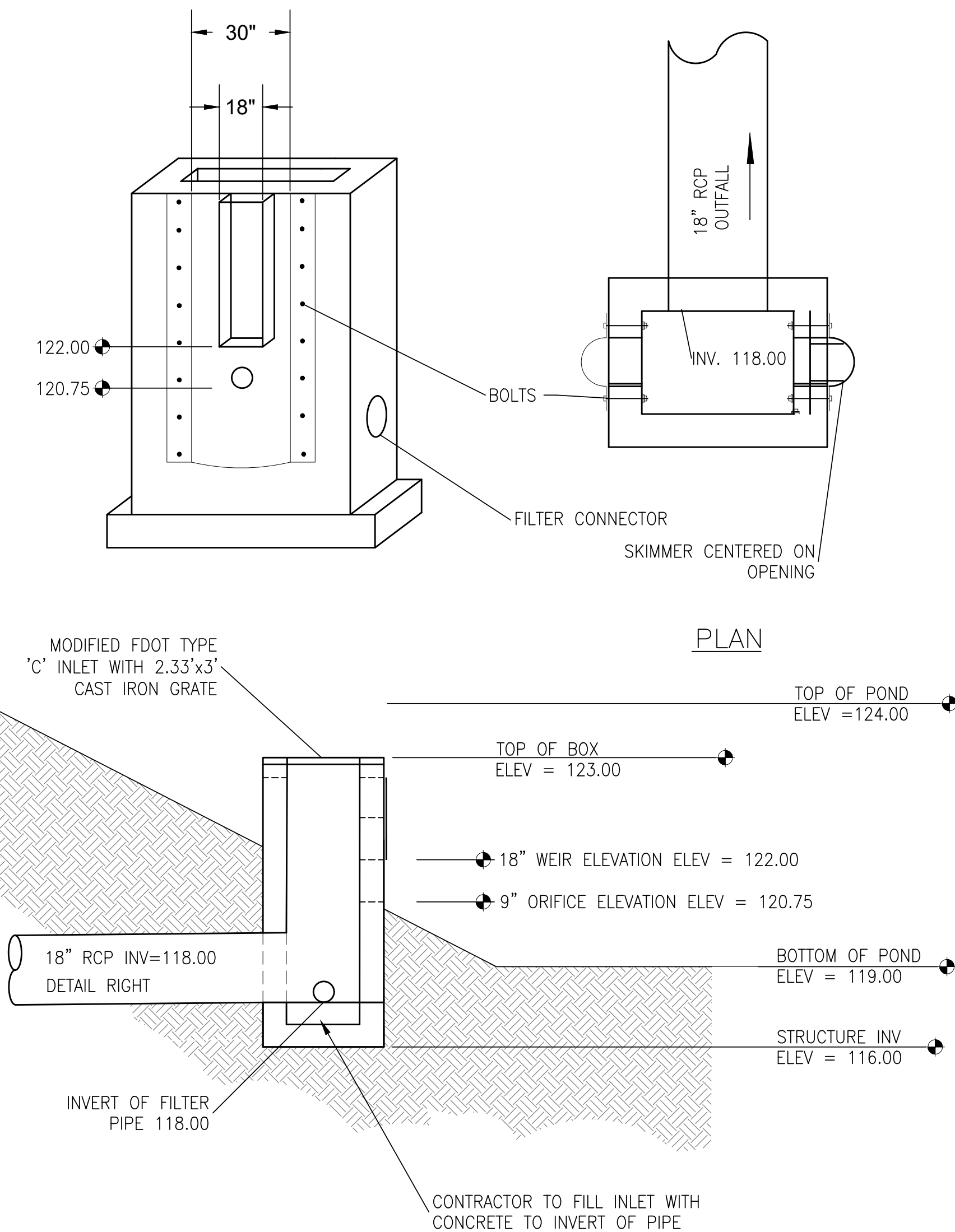
PROJECT NO.	50136924
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D2

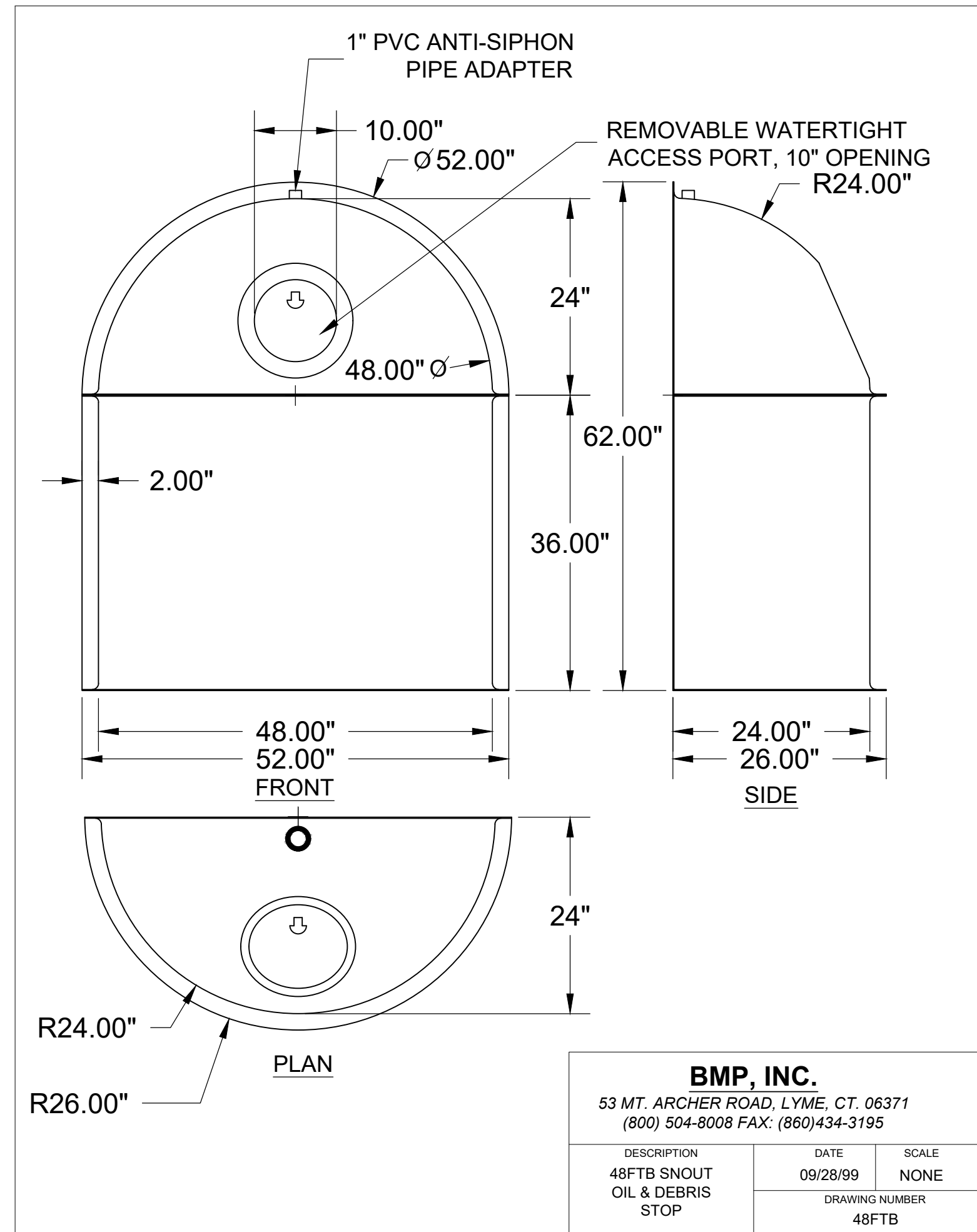
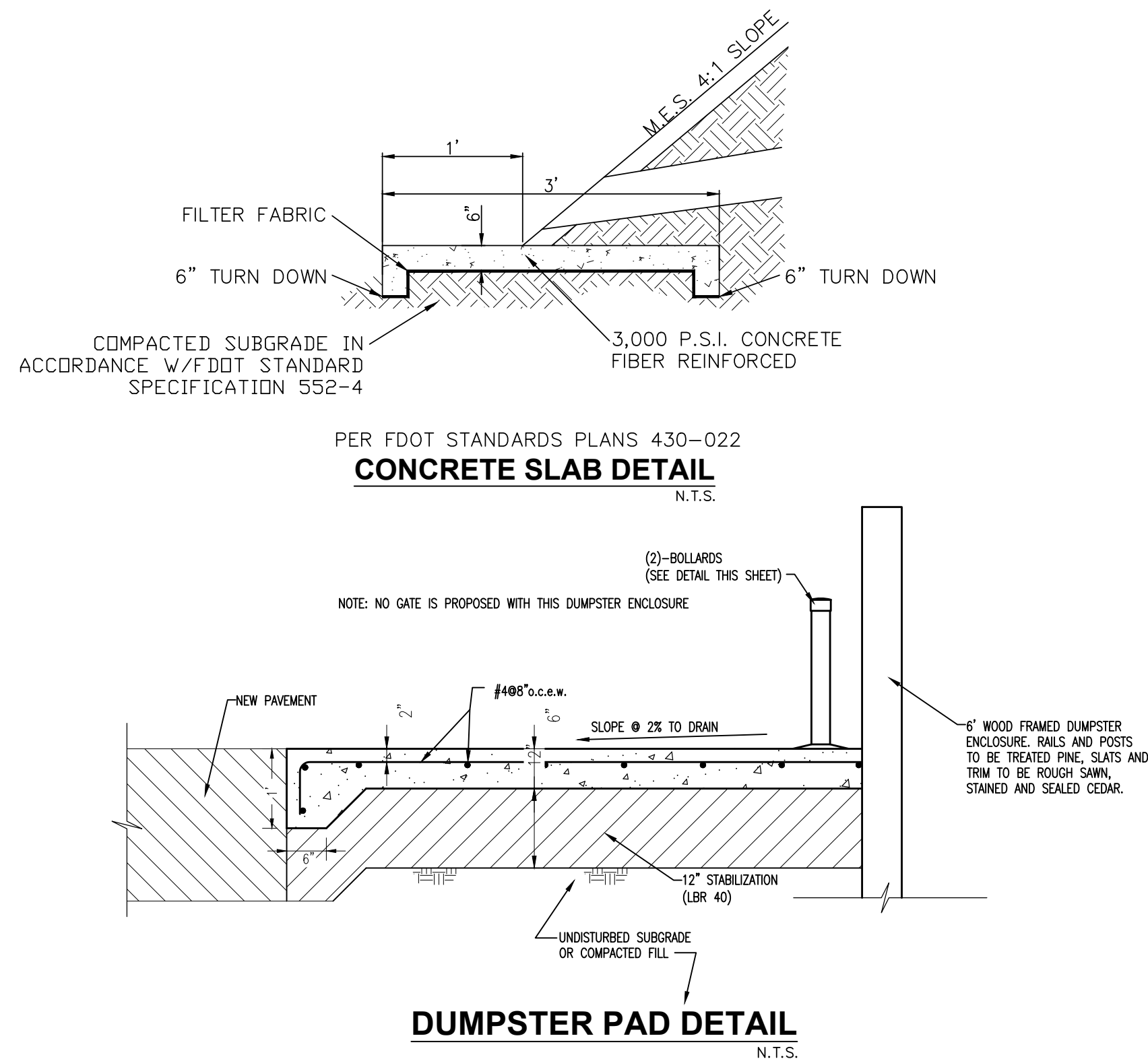
SHEET NO. SHEET NO.



SAND FILTER DETAIL
N.T.S.



OUTFALL CONTROL STRUCTURE DETAIL WITH OIL/WATER SEPARATOR



BUSY BEE #7

SERVICE AREA EXPANSION

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COLUMBIA COUNTY, FLORIDA

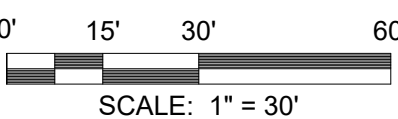
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COA# 8794

CONSTRUCTION DOCUMENTS

SCALE



REVISIONS

[illegible]

NO.	DESCRIPTION	DATE
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APPROVED BY WAM
- CHECKED BY JAL
DATE AUGUST 2021

TITLE

LANDSCAPE PLAN

PROJECT NO. 50136924

L1

SHEET NO.

