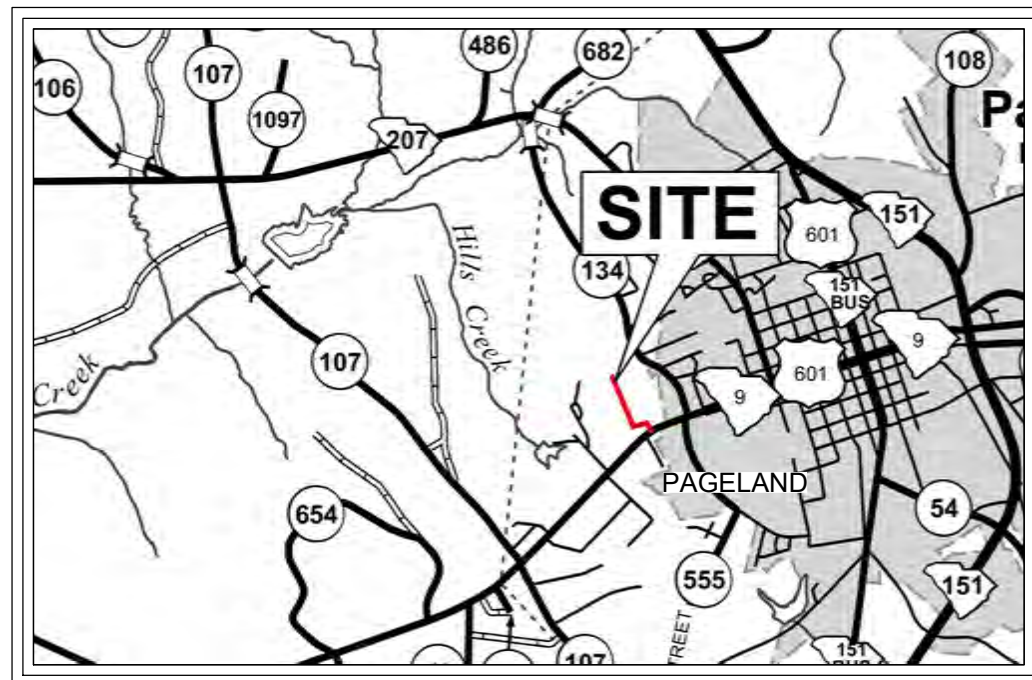


VICINITY MAP
N.T.S.



SITE LOCATION

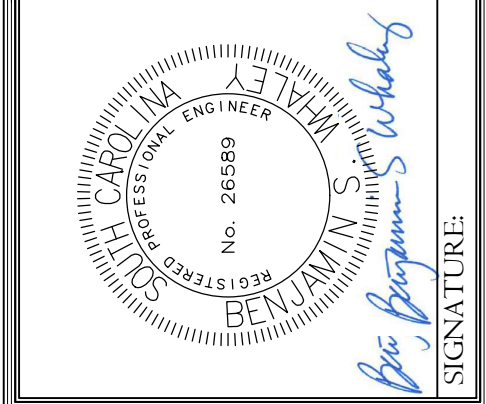
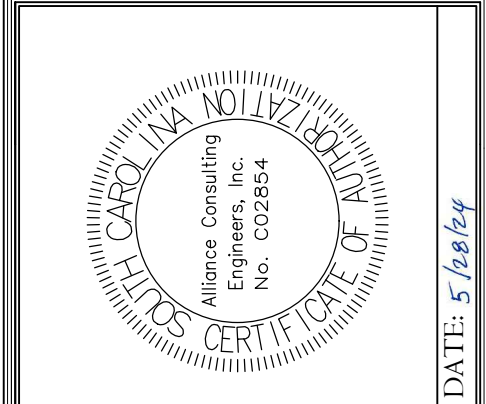
C-FUND ROADWAY PAVING OF ±1,900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA



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RUPERT COURTNEY LANE PLAN AND PROFILE - STA 9+50 TO 19+97.18 (SHEET 2 OF 2)	C2.1
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RUPERT COURTNEY LANE CROSS SECTION STA 14+00 TO 15+00 (SHEET 10 OF 13)	C4.9
RUPERT COURTNEY LANE CROSS SECTION STA 15+50 TO 16+50 (SHEET 11 OF 13)	C4.10
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EROSION AND SEDIMENT CONTROL DETAILS (SHEET 1 OF 2)	C7.0
EROSION AND SEDIMENT CONTROL DETAILS (SHEET 2 OF 2)	C7.1

REVISION	DATE



ALLIANCE CONSULTING ENGINEERS, INC.
POST OFFICE BOX 8147
COLUMBIA, SOUTH CAROLINA 29202-8147
PHONE (803) 779-2078
FAX (803) 779-2079
WWW.ALLIANCECE.COM

PROJECT: C-FUND ROADWAY PAVING OF
±1,900-LF RUPERT COURTNEY
LANE OFF US HIGHWAY 601 IN
THE TOWN OF PAGELAND IN
CHESTERFIELD COUNTY,
SOUTH CAROLINA

FEBRUARY 2024
Project No. 24109-0013
DWG NO. 01,1673-D29

NPDES PERMIT INFORMATION
NPDES DISTURBED AREA = ± 3.30 ACRES
MAXIMUM LENGTH OF DISTURBED AREA = ± 2000 LINEAR FEET (LF)

ENGINEER INFORMATION
COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
CONTACT: BENJAMIN S. WHALEY, P.E.
ADDRESS: P.O. BOX 8147
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EMAIL: SWHALEY@ALLIANCECE.COM

Utility Provider Contacts
Water Provider:
Contact: Chesterfield County Rural Water
13598 South Carolina 9 Bypass; Chesterfield, SC
Telephone: (843) 623-6090
Wastewater Provider:
Contact: Chesterfield County Rural Water, Inc.
13598 Highway 9; Chesterfield, SC
Telephone: (843) 623-6090
Electrical Utility Provider:
Contact: Lynches River Electric Cooperative, Inc.
707 S. Arant Street; Pageland, SC
Telephone: (843) 672-6111
Telecommunications Provider:
Contact: Sand Hill Telephone Cooperative
112 South Main Street
Jefferson, South Carolina
Telephone: (843) 658-3434
Gas Provider:
Contact: Not available

Chesterfield County Board Members
Mr. William Rhett Butler, Chairman
Ms. Mary D. Anderson, Vice-Chair
Ms. Hattie Burns
Mr. Benjamin Conklin, Jr.
Mr. Douglas A. Curtis
Mr. Gerald L. Miller
Mr. Bruce E. Rivers
Mr. William Todd Smallwood
Mr. Ralph E. Watson

DEVELOPER INFORMATION
DEVELOPER: CHESTERFIELD COUNTY PUBLIC WORKS
CONTACT: MR. JEFF McCARN
ADDRESS: 97 JONES ROAD
CITY, STATE: CHESTERFIELD, SC 29709
TELEPHONE: (843) 623-2464 (OFFICE)
EMAIL: JMcCARN@SHTC.NET

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EMAIL: TIMEUBANKS@CHESTERFIELDCOUNTY SC.COM

"I, Benjamin S. Whaley, have placed my signature and seal on the design documents submitted signifying that I accept responsibility for the design of the system. Further, I certify to the best of my knowledge and belief that the design is consistent with the requirements of Title 48, Chapter 14 of the Code of Laws of SC, 1976 as amended, pursuant to Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000."



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—W—	EXISTING WATER MAIN		EXISTING DIRT ROAD
—SD—	EXISTING STORM DRAINAGE PIPE		LIMITS OF DISTURBANCE
—	EXISTING SIGN		PROPOSED SIGN
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—OHE—	EXISTING OVERHEAD ELECTRIC		PROPOSED ASPHALT PAVEMENT
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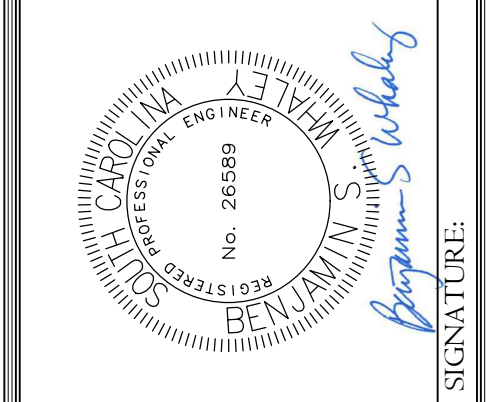
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OVERALL SITE LAYOUT AND GENERAL NOTES

C-FUND ROADWAY PAVING OF #1900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

FILE NAME: C1.0.dwg
 REFERENCE FILE: 24109 BASE.dwg
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SHEET C1.0

DWG NO. 01.1673-D29

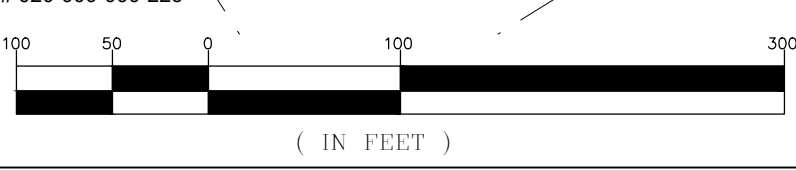
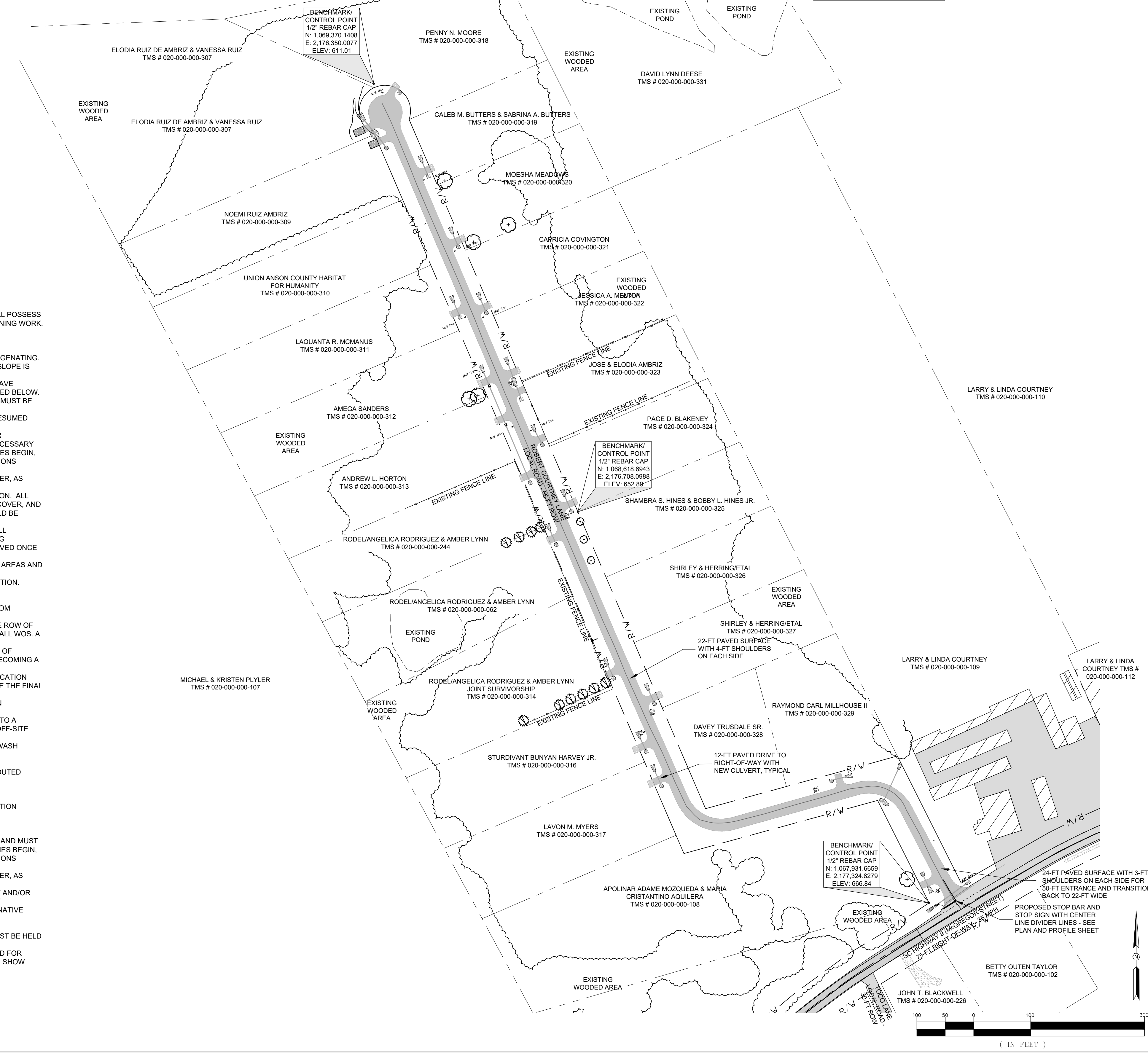
STANDARD NOTES

PERMITS / LICENSES

1. PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE PROJECT SITE, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL POSSESS ALL APPLICABLE PERMITTING AND THE OWNER AND ENGINEER WILL BE GIVEN AT LEAST TWENTY-FOUR (24) HOURS NOTICE BEFORE BEGINNING WORK.

PROCEDURES / RESPONSIBILITIES

- ALL WETLANDS SIGNAGE TO BE INSTALLED PER THE APPROVED CONSTRUCTION DRAWINGS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS. IN ADDITION TO HYDROGENATING, IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THE PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPs BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPs.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURES AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WOS. A 30-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE OS-SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THE FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE BEEN PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL AND REPLACE WITHIN ALL GRASSSED AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6". IF ADDITIONAL TOPSOIL IS REQUIRED TO MEET THE SPECIFICATIONS, THE CONTRACTOR MUST PROVIDE FROM AN OFF-SITE SOURCE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL TO PROVIDE EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.)
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE THE CONSTRUCTION SITE. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPs BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPs.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 29.5 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- AN AS-BUILT SURVEY(S), SIGNED AND SEALED BY A S.C. LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER, SHOULD BE COMPLETED FOR CHESTERFIELD COUNTY ON THIS SITE. THE SURVEY(S) WILL BE PROVIDED BY THE CONTRACTOR TO ALLIANCE CONSULTING ENGINEERS TO SHOW DITCH DEPTH AND LOCATIONS, PIPE SIZE AND INVERTS, AND ANY RELOCATED UTILITIES.



(IN FEET)

June 07, 2024 - 11:49 PM S:\Projects\24109-0013 C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans_C1.0 Overall Site.dwg

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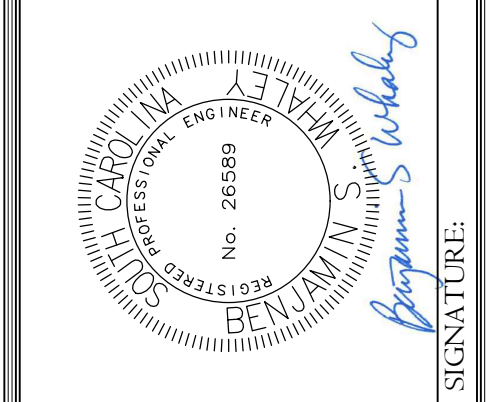
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C-FUND ROADWAY PAVING OF #1900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

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SHEET C1.0

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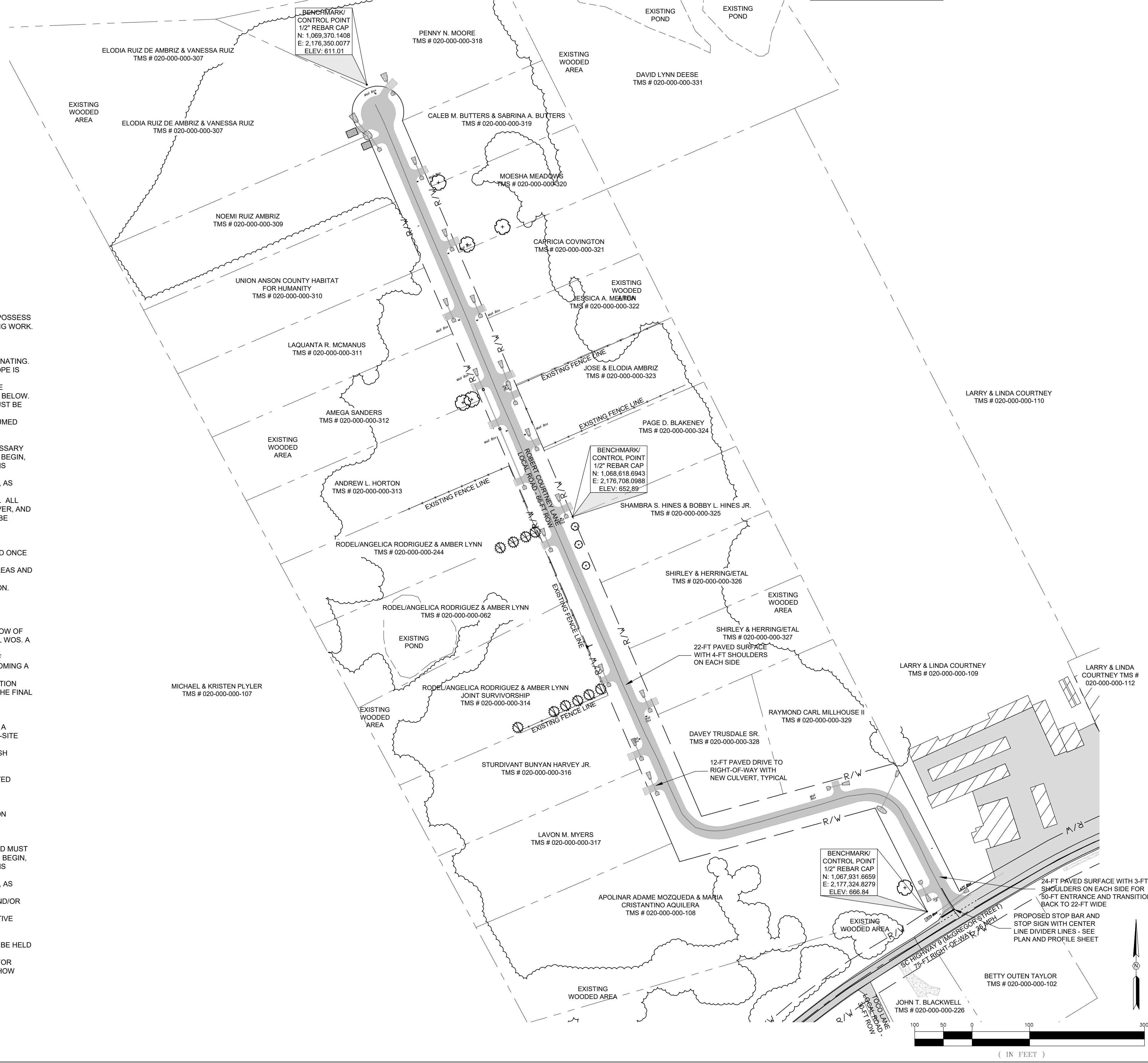
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- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPs BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPs.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURES AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES SHALL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN NOT BE MAINTAINED BETWEEN THE DISTURBED AREAS AND ALL WOS. A 30-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE OS-SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THE FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE BEEN PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL AND REPLACE WITHIN ALL GRASSSED AND LANDSCAPED AREAS TO A MINIMUM DEPTH OF 6". IF ADDITIONAL TOPSOIL IS REQUIRED TO MEET THE SPECIFICATIONS, THE CONTRACTOR MUST PROVIDE FROM AN OFF-SITE SOURCE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL TO PROVIDE EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPs (SEDIMENT BASIN, FILTER BAG, ETC.)
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE THE CONSTRUCTION SITE. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAYS, AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IT IS RECOMMENDED THAT BMPs BE ASSESSED BY THE CONTRACTOR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 1.0 INCH OR GREATER, AS WELL AS DURING THE FIRST RAIN EVENT AFTER THE INITIATION OF CONSTRUCTION ACTIVITIES, AFTER THE INSTALLATION OF BMPs.
- IF EXISTING BMPs NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPs MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 29.5 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- AN AS-BUILT SURVEY(S), SIGNED AND SEALED BY A S.C. LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER, SHOULD BE COMPLETED FOR CHESTERFIELD COUNTY ON THIS SITE. THE SURVEY(S) WILL BE PROVIDED BY THE CONTRACTOR TO ALLIANCE CONSULTING ENGINEERS TO SHOW DITCH DEPTH AND LOCATIONS, PIPE SIZE AND INVERTS, AND ANY RELOCATED UTILITIES.



June 07, 2024 - 3:12:29 PM S:\Projects\24109-0013 C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans_C1.0 Overall Site.dwg

June 07, 2024 - 1:17:39 PM S:\Projects\24109-0013 C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans\C2.0 Plan & Profile.dwg

LEGEND

—R/W—	EXISTING RIGHT-OF-WAY (R-O-W)	▨	EXISTING PAVEMENT
—W—	EXISTING WATER MAIN	▨	EXISTING DIRT ROAD
—SD—	EXISTING STORM DRAINAGE PIPE	▨	LIMITS OF DISTURBANCE
—	EXISTING SIGN	▨	PROPOSED SIGN
—GAS—	EXISTING GAS LINE	▨	PROPOSED FUTURE R-O-W
—OHE—	EXISTING OVERHEAD ELECTRIC	▨	PROPOSED ASPHALT PAVEMENT
		▨	PROPOSED GRAVEL DRIVE

REFERENCES:

- REFERENCE IS MADE TO TOPOGRAPHIC AND LOCATION SURVEY OF DEER RUN SUBDIVISION FOR THE PROPOSED ROADWAY IMPROVEMENTS BY HAYES SURVEYING DATED FEBRUARY 12, 2024.
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- REFERENCE IS MADE TO CHESTERFIELD COUNTY GIS RECORDS FOR THE PROPERTY OWNER NAMES. THIS MAY HAVE CHANGED FROM TIME OF SURVEY.

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 ADDRESS: 178 MILLS STREET
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 (843) 680-2216 (CELL)
 EMAIL: TIMEUBANKS@CHESTERFIELDCOUNTY.SC.GOV

DEVELOPER INFORMATION

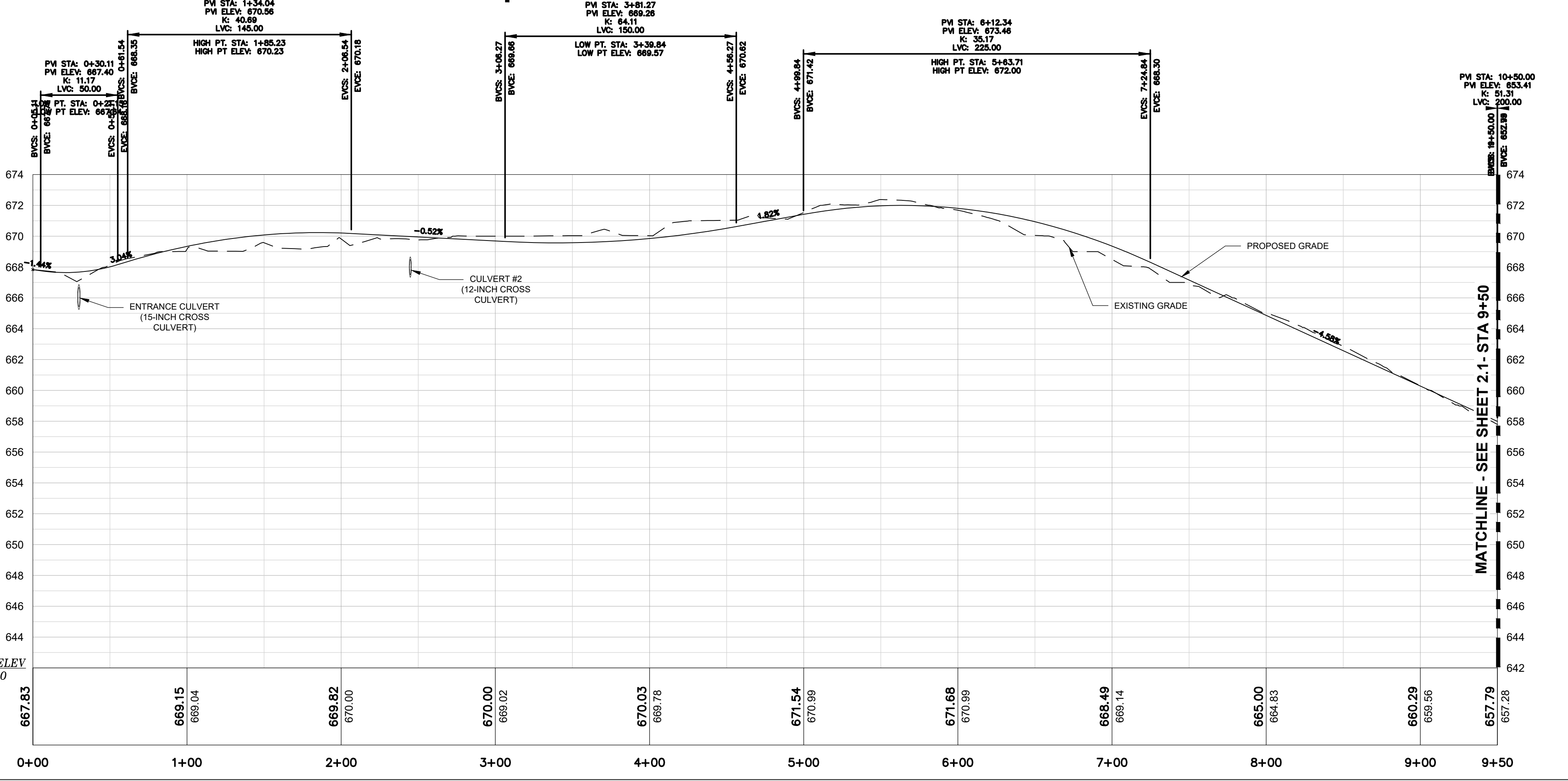
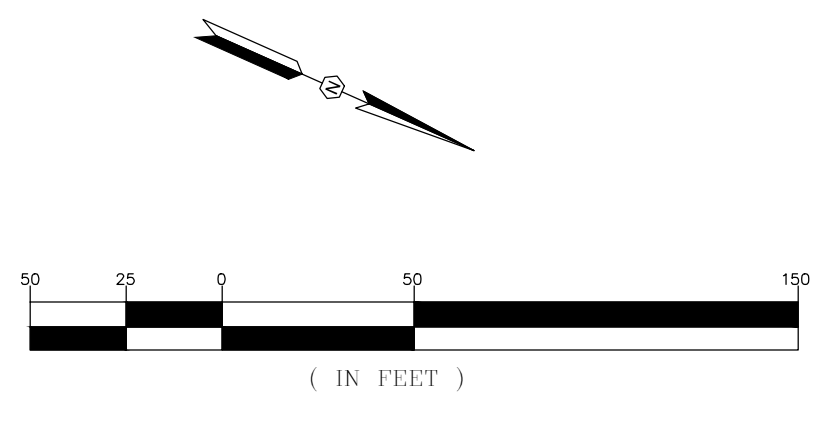
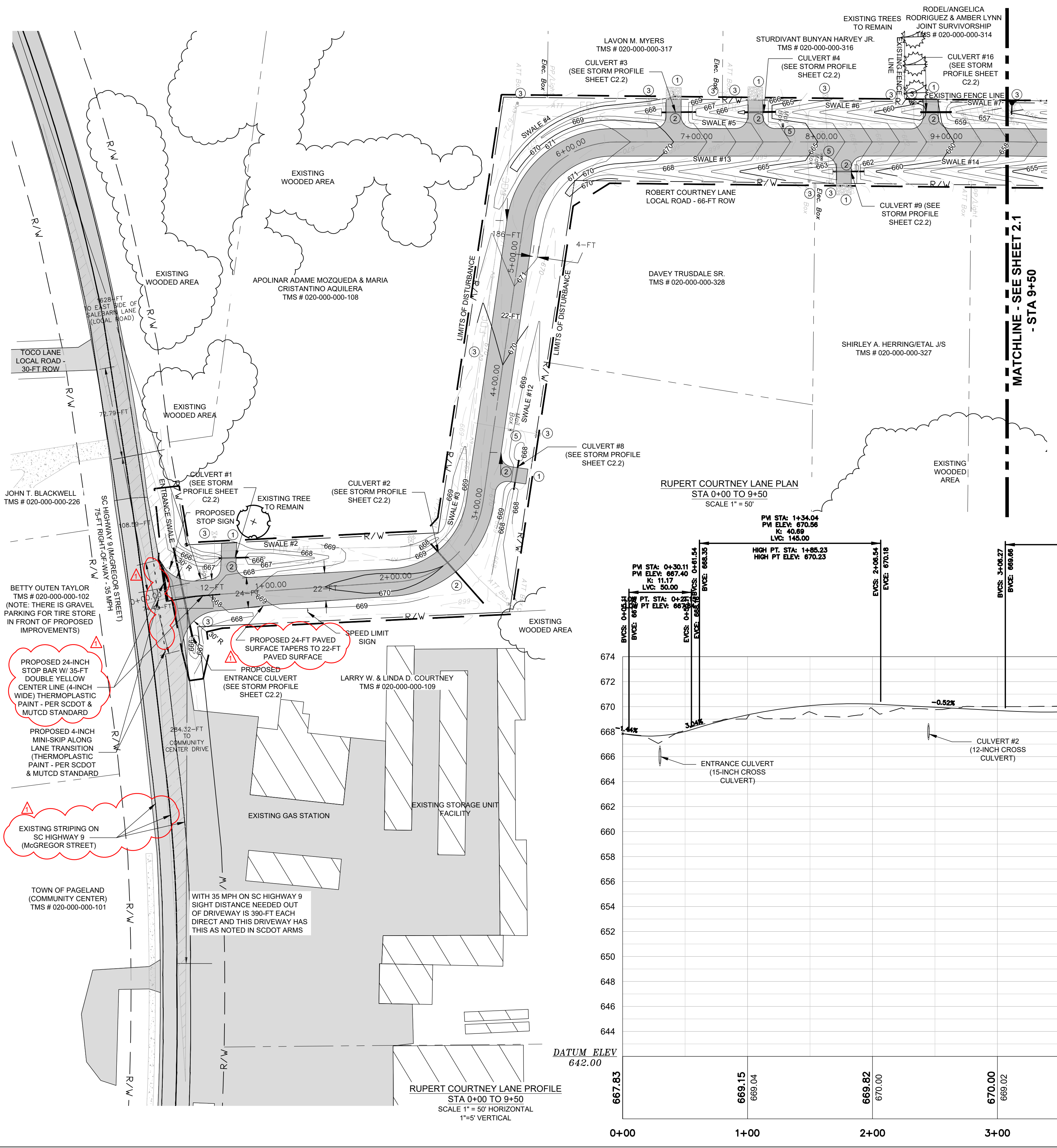
DEVELOPER: CHESTERFIELD COUNTY PUBLIC WORKS
 CONTACT: MR. JEFF McCARN
 ADDRESS: 97 JONES ROAD
 CITY, STATE: CHESTERFIELD, SC 29709
 TELEPHONE: (843) 623-2464 (WORK)
 EMAIL: JMcCARN@SHTC.NET.COM

ENGINEER INFORMATION

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 ADDRESS: P.O. BOX 8147
 CITY, STATE: COLUMBIA, SOUTH CAROLINA 29202
 TELEPHONE: (803) 779-2078
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 EMAIL: SWhALEY@ALLIANCECE.COM

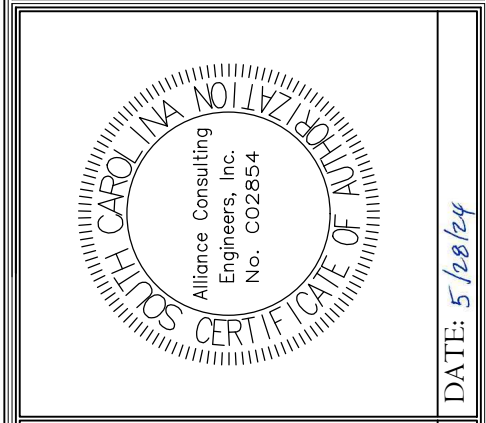
NOTE: CAD FILES WILL BE PROVIDED TO CONTRACTOR FOR USE WITH SITE STAKING.

- GENERAL NOTES:**
- CONNECT TO ALL EXISTING GRAVEL/DIRT DRIVEWAYS AND MATCH EXISTING GRADES WITH THE PROPOSED PAVED DRIVE (THE DRIVEWAYS ARE 12-FT WIDE WITH 10-FT RADIUS EACH SIDE, TYPICAL).
 - REMOVE ALL EXISTING CULVERTS AND REPLACE WITH THE PROPOSED CULVERT NOTED ON THE STORM DRAINAGE PROFILE SHEET FOR FLOW DESIGN REQUIREMENTS OR PIPE UPGRADE AS NEEDED.
 - CONTRACTOR TO FIELD LOCATE THE EXISTING UTILITIES AND COORDINATE WITH THE SUPPLIERS ON FIELD RELOCATIONS IF CROSS SECTION WILL CONFLICT WITH EXISTING UTILITY LOCATION OR DEPTH.
 - ANY EXCESS CUT MATERIAL WILL BE REMOVED FROM THE SITE TO AN APPROVAL LOCATION FOR ACCEPTANCE OF FILL MATERIAL BY SCDHEC.
 - RELOCATE MAIL BOXES AS NEEDED TO MAINTAIN THE NEW PAVEMENT EDGE AND HAVE ACCESS DAILY DURING CONSTRUCTION.

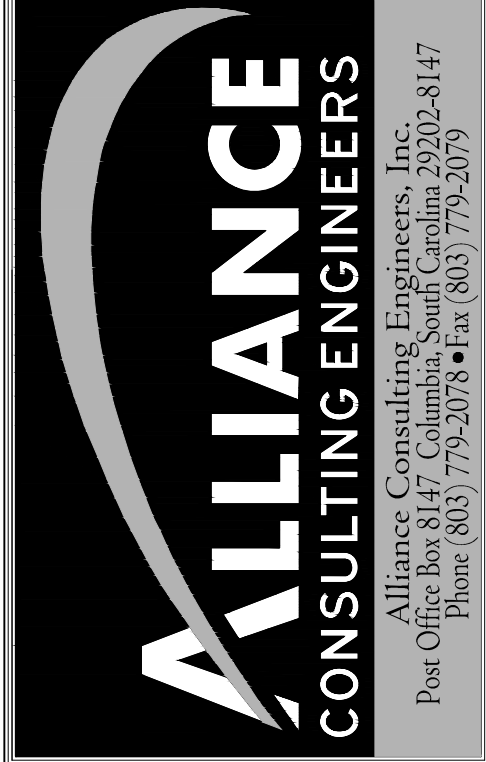


REVISION DATE

1	SCDOT COMMENTS 5/17/2024
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SIGNATURE: *Benjamin S. Whaley*
 DATE: 5/20/24



RUPERT COURTNEY LANE PLAN & PROFILE - STA 0+00 TO 9+50 (SHEET 1 OF 2)

C-FUND ROADWAY PAVING OF #1900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

FILE NAME: C2.0.dwg	SHEET C2.0
REFERENCE FILE: 24109 BASE.dwg	
PROJECT NO: 24109-0013	

DWG NO. 01.1673-D29

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LEGEND	
—R/W—	EXISTING RIGHT-OF-WAY (R-O-W)
—W—	EXISTING WATER MAIN
—SD—	EXISTING STORM DRAINAGE PIPE
—	EXISTING SIGN
—GAS—	EXISTING GAS LINE
—OHE—	EXISTING OVERHEAD ELECTRIC
—	EXISTING PAVEMENT
—	EXISTING DIRT ROAD
—	LIMITS OF DISTURBANCE
—	PROPOSED SIGN
—R/W—	PROPOSED FUTURE R-O-W
—	PROPOSED ASPHALT PAVEMENT
—	PROPOSED GRAVEL DRIVE

GENERAL NOTES:

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 EMAIL: TIMEUBANKS@CHESTERFIELDCOUNTY.SC.GOV

DEVELOPER INFORMATION

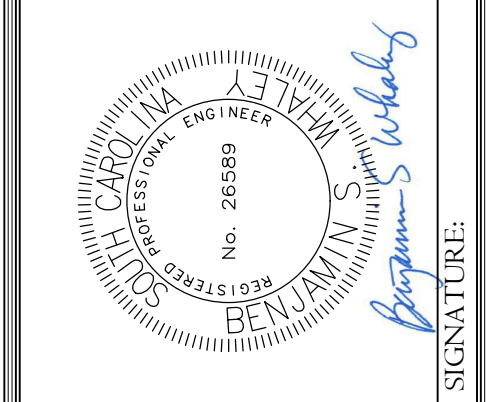
DEVELOPER: CHESTERFIELD COUNTY PUBLIC WORKS
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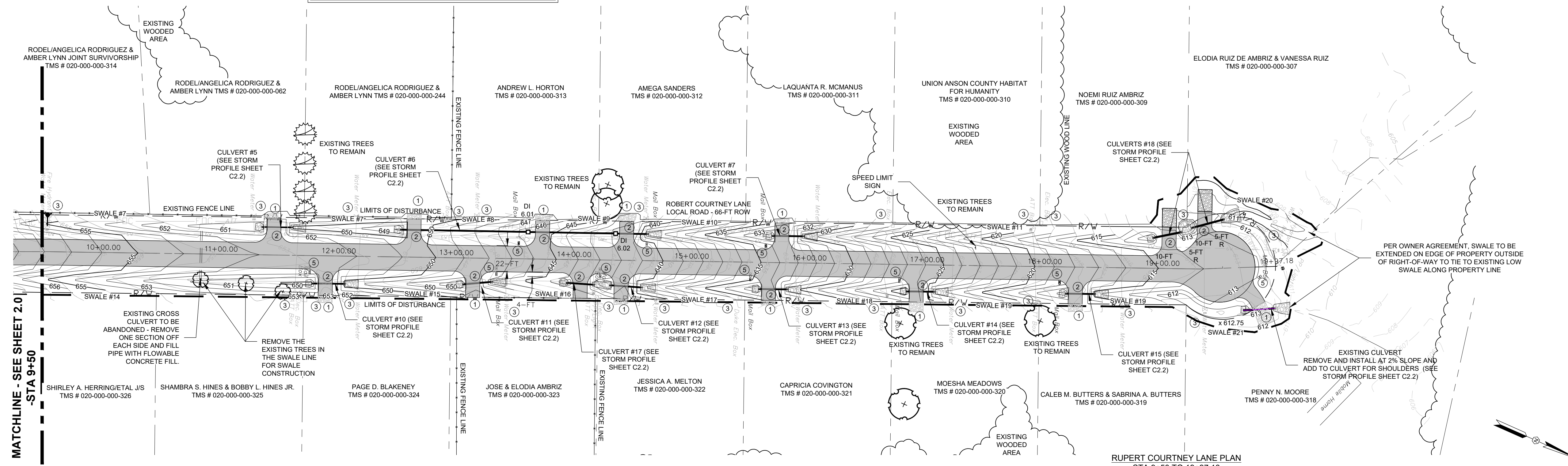
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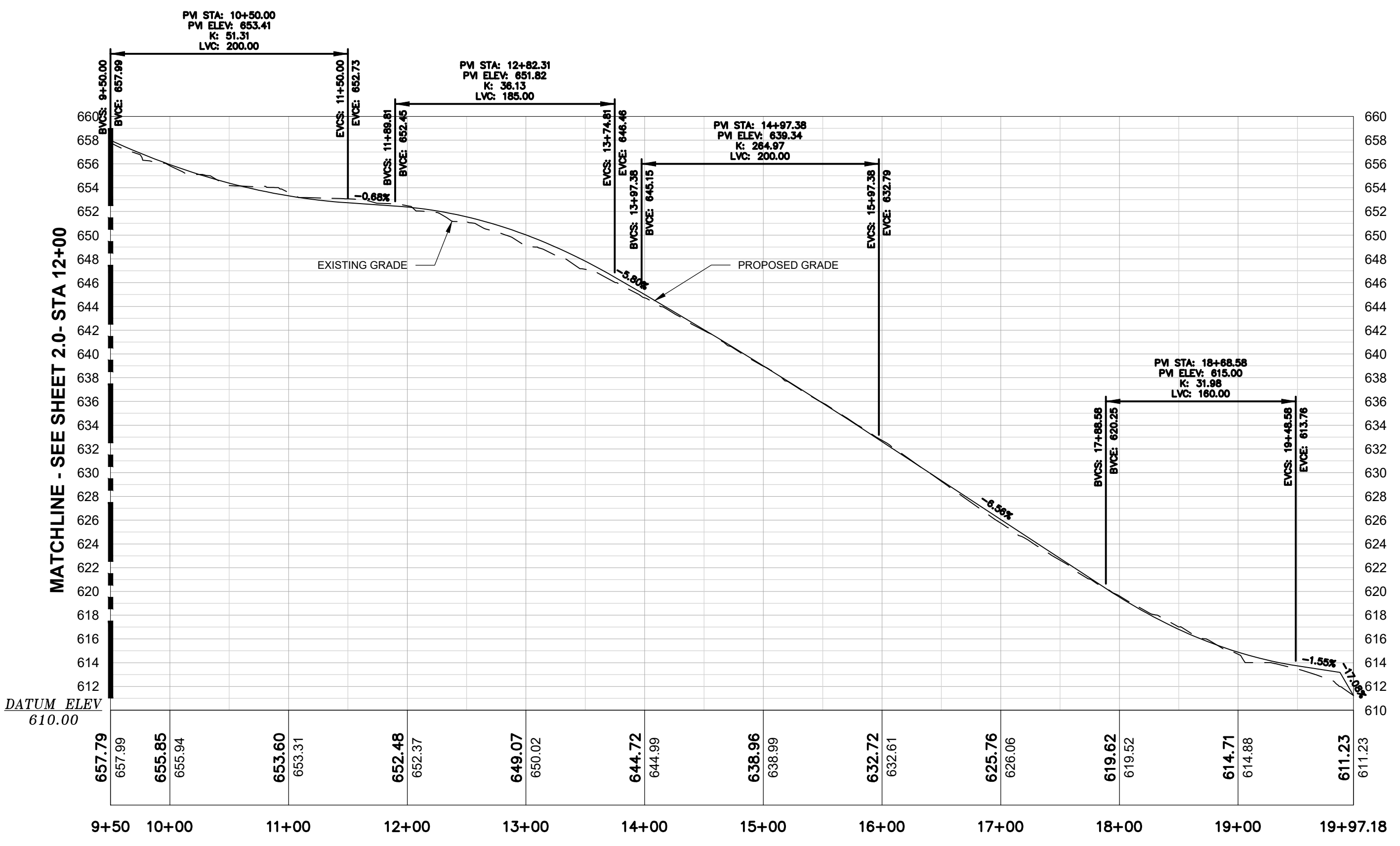
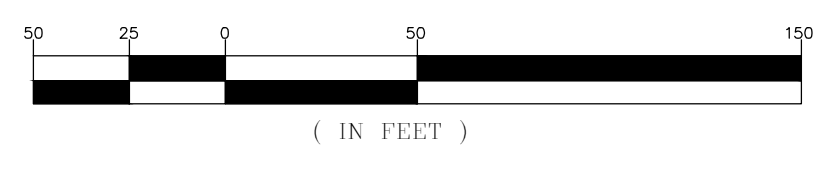
ALLIANCE CONSULTING ENGINEERS

Alliance Consulting Engineers, Inc.
 Post Office Box 8147, Columbia, South Carolina 29202-8147
 Phone: (803) 779-2078 • Fax: (803) 779-2079



MATCHLINE - SEE SHEET 2.0 - STA 9+50

RUPERT COURTNEY LANE PLAN
 STA 9+50 TO 19+97.18
 SCALE 1" = 50'



RUPERT COURTNEY LANE PROFILE
 STA 9+50 TO 19+97.18
 SCALE 1" = 50' HORIZONTAL
 1" = 5' VERTICAL

PROJECT: C-FUND ROADWAY PAVING OF #1900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

SHEET: C.2.1

DATE: FEBRUARY 2024

SCALE: 1" = 50'

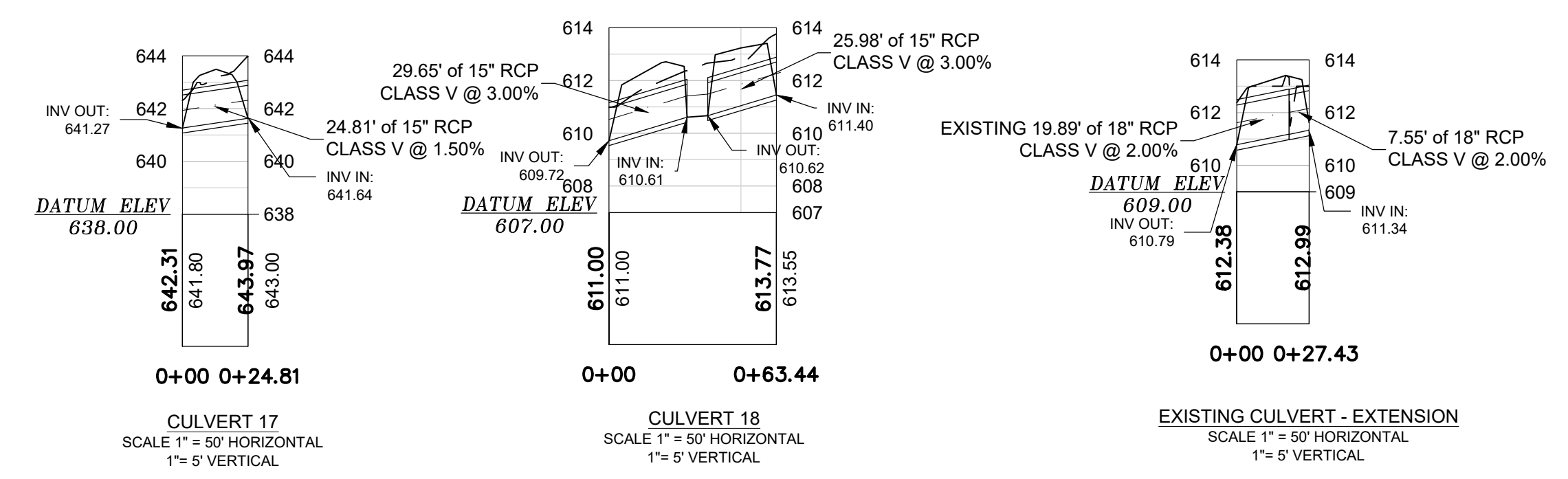
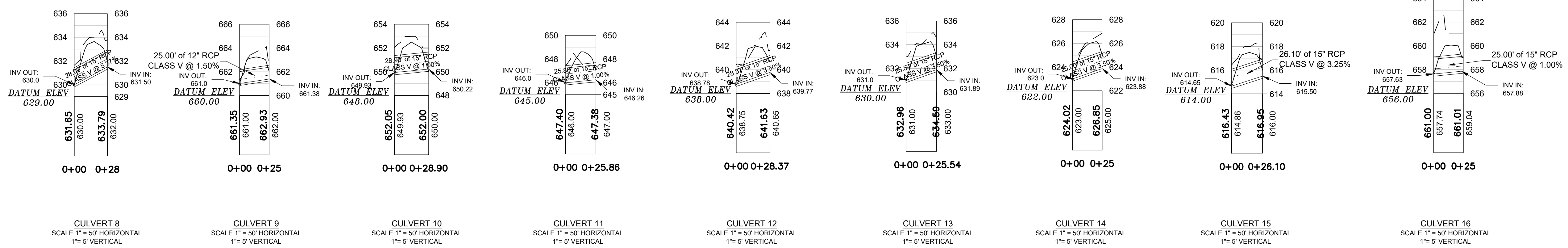
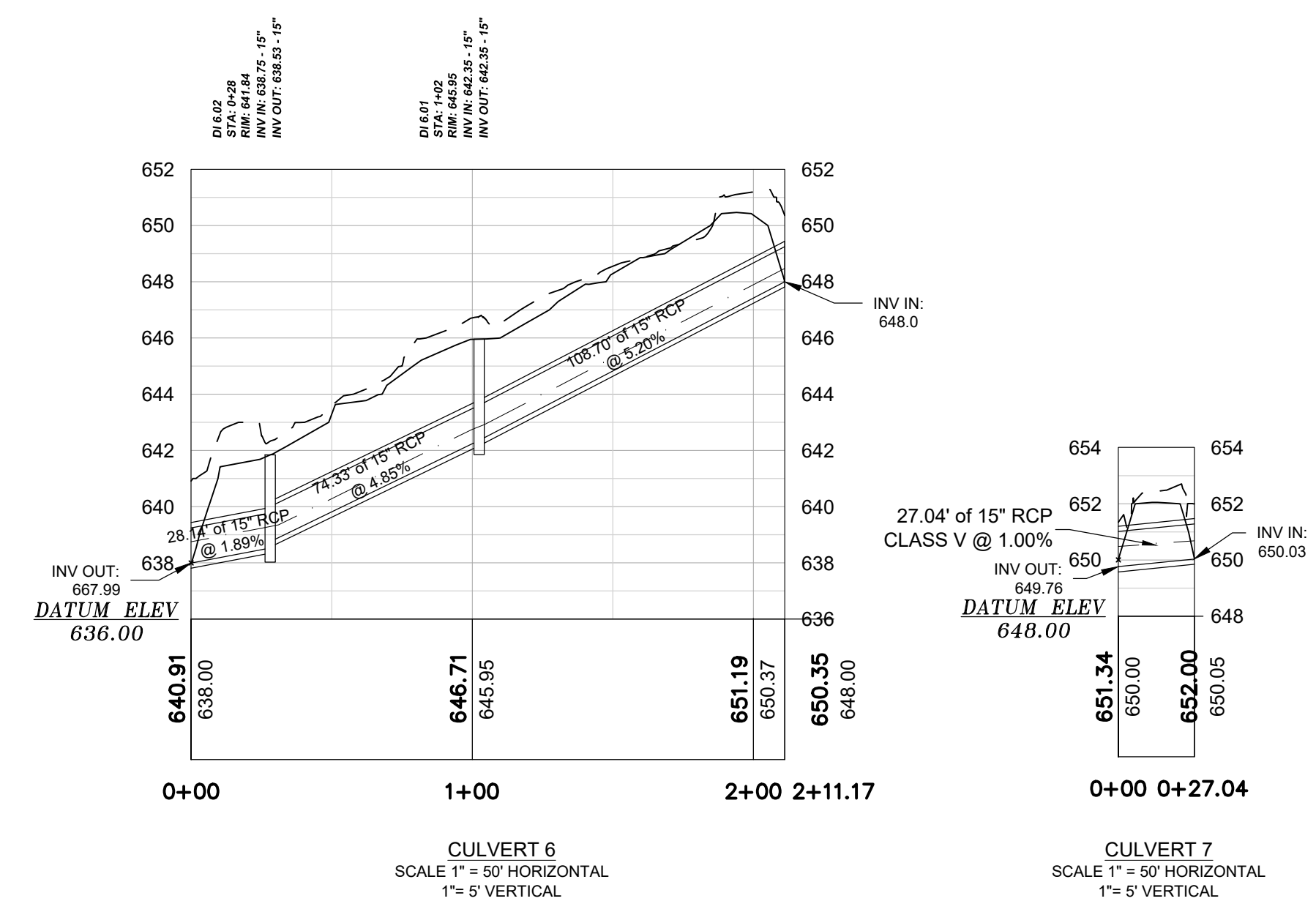
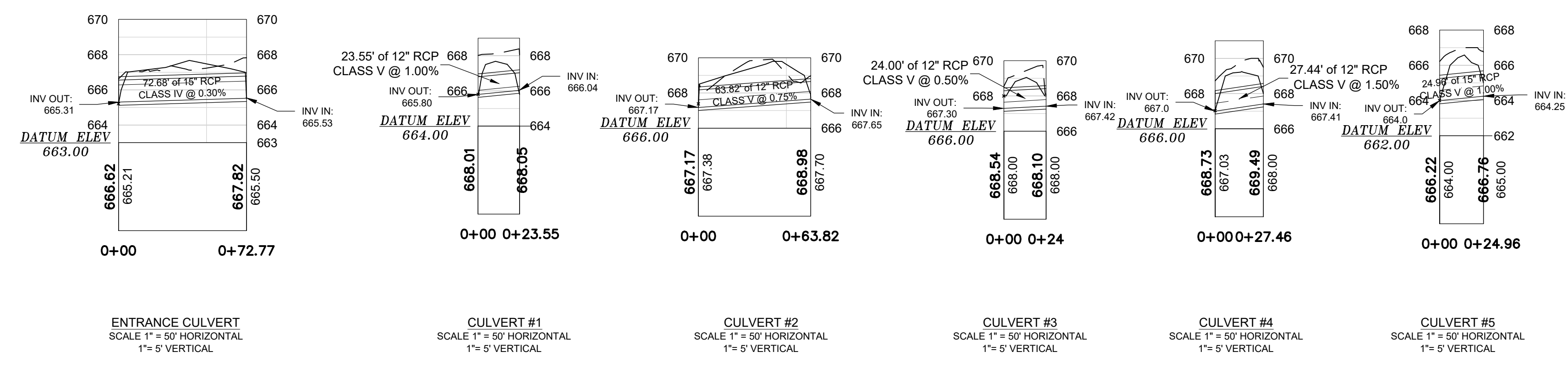
FILE NAME: C2.0.dwg
 REFERENCE FILE: 24109 BASE.dwg
 PROJECT NO: 24109-0013

June 18, 2024 - 4:47:46 PM S:\Projects\24109-0013 C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans_C2.0 Plan & Profile.dwg

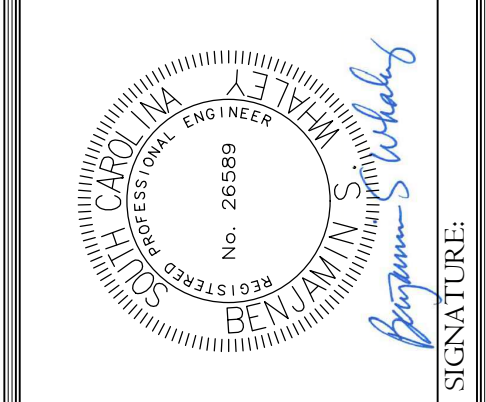
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June 18, 2024 - 4:52:25 PM S:\Projects\24109-0013 C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans_C2.2 Storm Profiles.dwg

LEGEND	
---	EXISTING GRADE
---	PROPOSED SURFACE



REVISION DATE	



ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147, Columbia, South Carolina 29202-8147
Phone: (803) 779-2078 • Fax: (803) 779-2079

PROJECT: C-FUND ROADWAY PAVING OF 41,900-SF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGERLAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

SHEET: STORM DRAINAGE PROFILES

DATE: FEBRUARY 2024

SCALE: 1" = 10'

FILE NAME:	C2.2.dwg
REFERENCE FILE:	24109-0013 BASE.dwg
PROJECT NO.:	24109-0013

SHEET C2.2

DWG NO. 01.1673-D29

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LEGEND	
---	EXISTING CONTOUR MINOR
---	EXISTING CONTOUR MAJOR
---	EXISTING PROPERTY LINE
---	EXISTING RIGHT-OF-WAY
---	EXISTING FENCE
---	EXISTING WATER MAIN
---	EXISTING WASTEWATER GRAVITY LINE
---	EXISTING WASTEWATER FORCE MAIN
---	EXISTING NATURAL GAS MAIN
---	EXISTING OVERHEAD ELECTRIC
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING TELECOMMUNICATIONS
---	EXISTING STORM DRAINAGE
---	EXISTING FENCE
---	EXISTING PAVEMENT
---	LIMITS OF DISTURBANCE
---	PROPOSED CONTOUR MAJOR
---	PROPOSED CONTOUR MINOR
---	PROPOSED STORM DRAINAGE
---	PROPOSED PAVEMENT

LEGEND	
---	PROPOSED SILT FENCE
---	TEMPORARY CONSTRUCTION ENTRANCE
---	PROPOSED RIP RAP
---	PROPOSED SILT LOG
---	INLET PROTECTION
---	OUTLET PROTECTION
---	PROPOSED GRASSING
---	EROSION CONTROL MATTING (NORTH AMERICAN GREEN S75)
---	ROCK CHECK DAM

REFERENCES:

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NOTE: CAD FILES WILL BE PROVIDED TO CONTRACTOR FOR USE WITH SITE STAKING.

REVISION DATE	

APPROVALS	
ENGINEER	BSW
DESIGNER	JAM
TRACER/ANALYST	ENM
CHECKED BY	BSW
APPROVED BY	BSW

SIGNATURE: *Benjamin S. Whaley*

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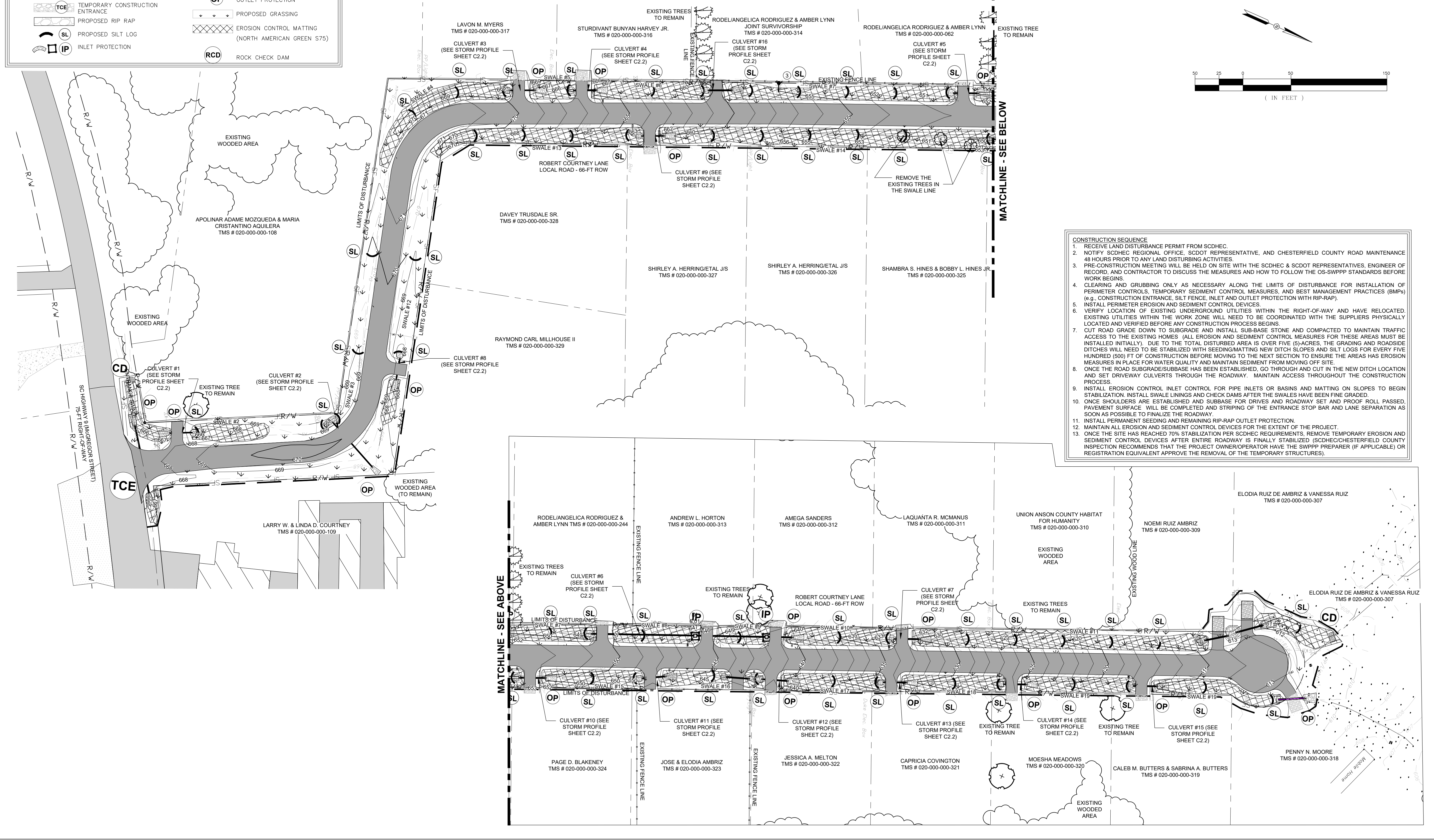
PROJECT: C-FUND ROADWAY PAVING OF #1900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

SHEET: EROSION AND SEDIMENT CONTROL PLAN

FILE NAME: C3.0.dwg
 REFERENCE FILE: 24109 BASE.dwg
 PROJECT NO: 24109-0013

SHEET: C3.0
 DWG NO. 01.1673-D29

CHESTERFIELD COUNTY SOUTH CAROLINA DATE: FEBRUARY 2024 SCALE: 1" = 50'

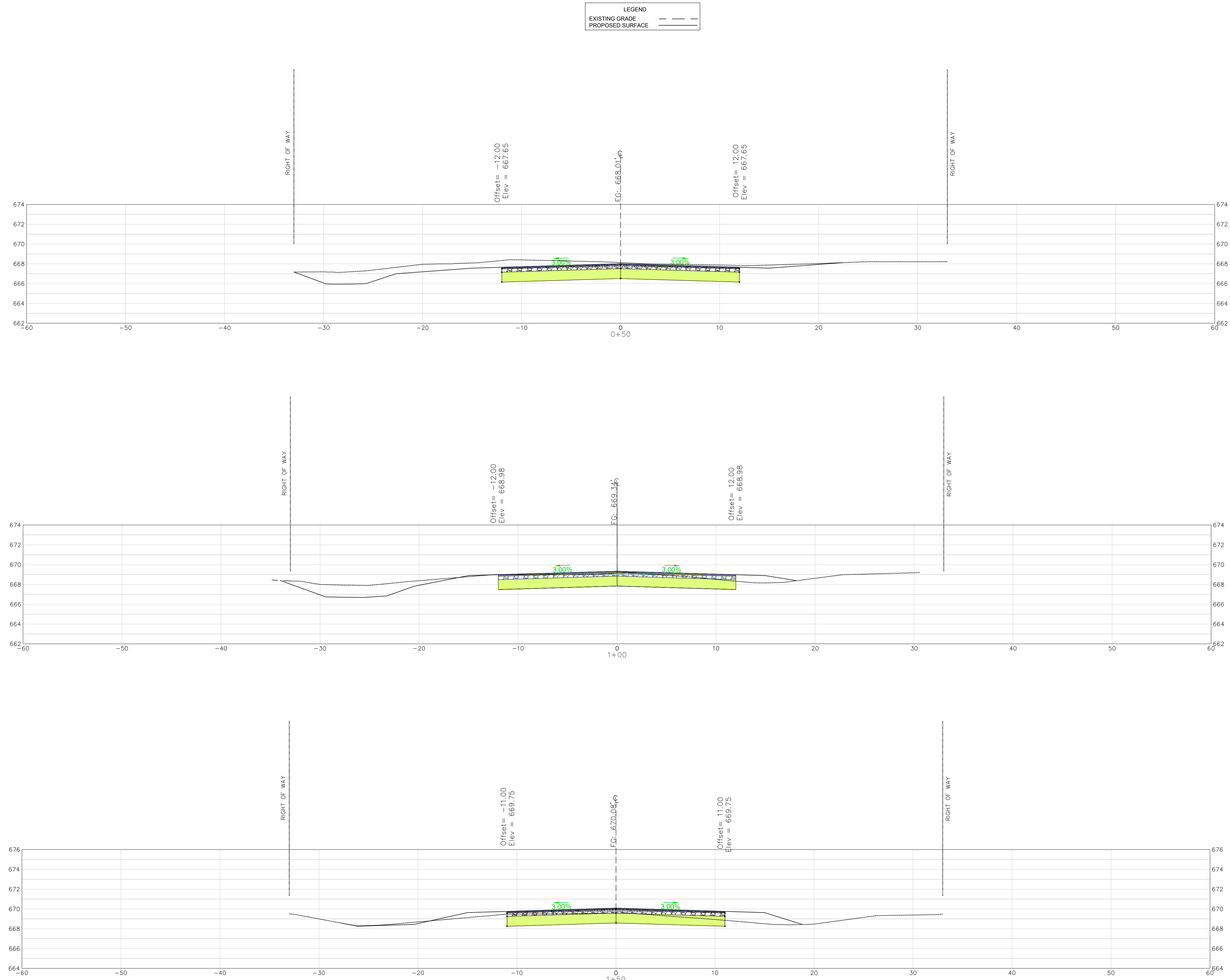


CONSTRUCTION SEQUENCE

- RECEIVE LAND DISTURBANCE PERMIT FROM SCDEH.
- NOTIFY SCDEH REGIONAL OFFICE, SCDOT REPRESENTATIVE, AND CHESTERFIELD COUNTY ROAD MAINTENANCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- PRE-CONSTRUCTION MEETING WILL BE HELD ON SITE WITH THE SCDEH & SCDOT REPRESENTATIVES, ENGINEER OF RECORD, AND CONTRACTOR TO DISCUSS THE MEASURES AND HOW TO FOLLOW THE OS-SWPPP STANDARDS BEFORE WORK BEGINS.
- CLEARING AND GRUBBING ONLY AS NECESSARY ALONG THE LIMITS OF DISTURBANCE FOR INSTALLATION OF PERIMETER CONTROLS, TEMPORARY SEDIMENT CONTROL MEASURES, AND BEST MANAGEMENT PRACTICES (BMPs) (e.g. CONSTRUCTION ENTRANCE, SILT FENCE, INLET AND OUTLET PROTECTION WITH RIP-RAP).
- INSTALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES.
- VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE RIGHT-OF-WAY AND HAVE RELOCATED. EXISTING UTILITIES WITHIN THE WORK ZONE WILL NEED TO BE COORDINATED WITH THE SUPPLIERS PHYSICALLY LOCATED AND VERIFIED BEFORE ANY CONSTRUCTION PROCESS BEGINS.
- CUT ROAD GRADE DOWN TO SUBGRADE AND INSTALL SUB-BASE STONE AND COMPACTED TO MAINTAIN TRAFFIC ACCESS TO THE EXISTING HOMES. (ALL EROSION AND SEDIMENT CONTROL MEASURES FOR THESE AREAS MUST BE INSTALLED INITIALLY). DUE TO THE TOTAL DISTURBED AREA IS OVER FIVE (5)-ACRES, THE GRADING AND ROADSIDE DITCHES WILL NEED TO BE STABILIZED WITH SEEDING/MATTING NEW DITCH SLOPES AND SILT LOGS FOR EVERY FIVE HUNDRED (500) FT OF CONSTRUCTION BEFORE MOVING TO THE NEXT SECTION TO ENSURE THE AREAS HAS EROSION MEASURES IN PLACE FOR WATER QUALITY AND MAINTAIN SEDIMENT FROM MOVING OFF SITE.
- ONCE THE ROAD SUBGRADE/SUBBASE HAS BEEN ESTABLISHED, GO THROUGH AND CUT IN THE NEW DITCH LOCATION AND SET DRIVEWAY CULVERTS THROUGH THE ROADWAY. MAINTAIN ACCESS THROUGHOUT THE CONSTRUCTION PROCESS.
- INSTALL EROSION CONTROL INLET CONTROL FOR PIPE INLETS OR BASINS AND MATTING ON SLOPES TO BEGIN STABILIZATION. INSTALL SWALE LININGS AND CHECK DAMS AFTER THE SWALES HAVE BEEN FINE GRADED.
- ONCE SHOULDERS ARE ESTABLISHED AND SUBBASE FOR DRIVES AND ROADWAY SET AND PROOF ROLL PASSED, PAVEMENT SURFACE WILL BE COMPLETED AND STRIPING OF THE ENTRANCE STOP BAR AND LANE SEPARATION AS SOON AS POSSIBLE TO FINALIZE THE ROADWAY.
- INSTALL PERMANENT SEEDING AND REMAINING RIP-RAP OUTLET PROTECTION.
- MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.
- ONCE THE SITE HAS REACHED 70% STABILIZATION PER SCDEH REQUIREMENTS, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER ENTIRE ROADWAY IS FINALLY STABILIZED (SCDEH/CHESTERFIELD COUNTY INSPECTION RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER (IF APPLICABLE) OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF THE TEMPORARY STRUCTURES).

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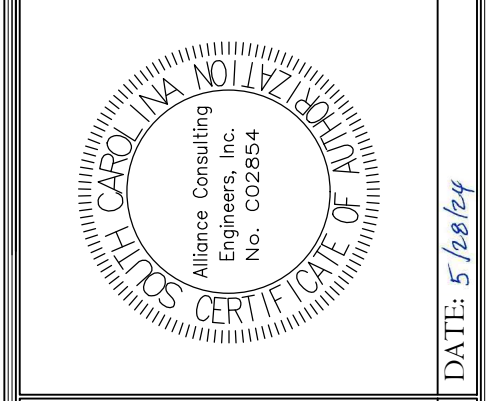
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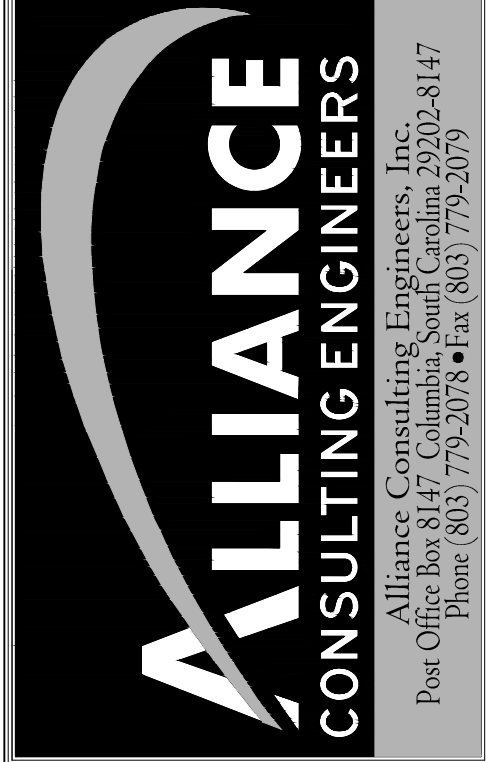
CROSS SECTIONS 0+50 - 1+50
 SCALE 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

REVISION DATE	

APPROVALS
ENGINEER: BSW
DESIGNER: JAM
TITLE: ANGLAN
CHECKED BY: JAM
APPROVED BY: BSW
APPROVED BY: BSW



DATE: 5/20/24
 SIGNATURE: Benjamin J. Anglan



PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 0+50 TO 1+50
 (SHEET 1 OF 13)

DATE: FEBRUARY 2024
 SCALE: 1" = 5'

FILE NAME:
 C4.0.dwg

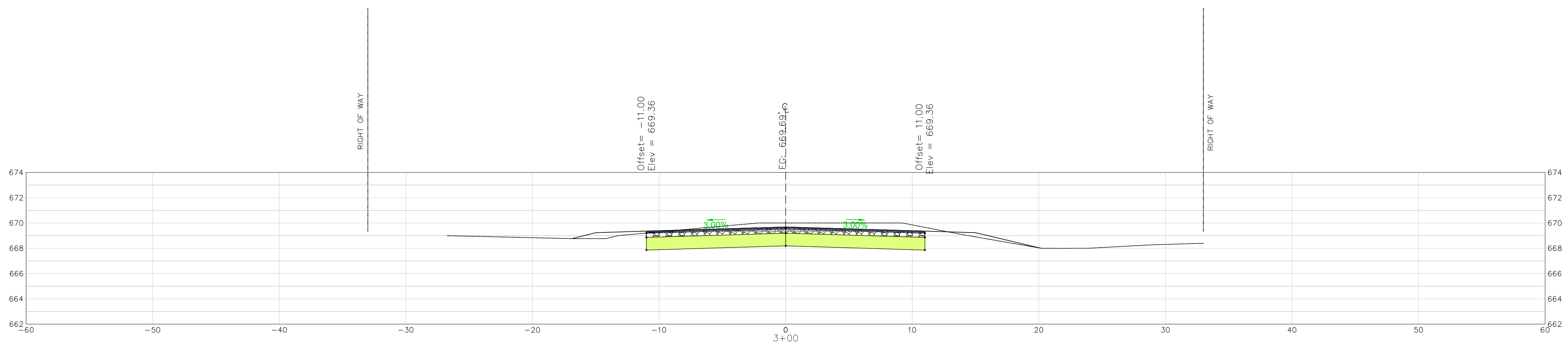
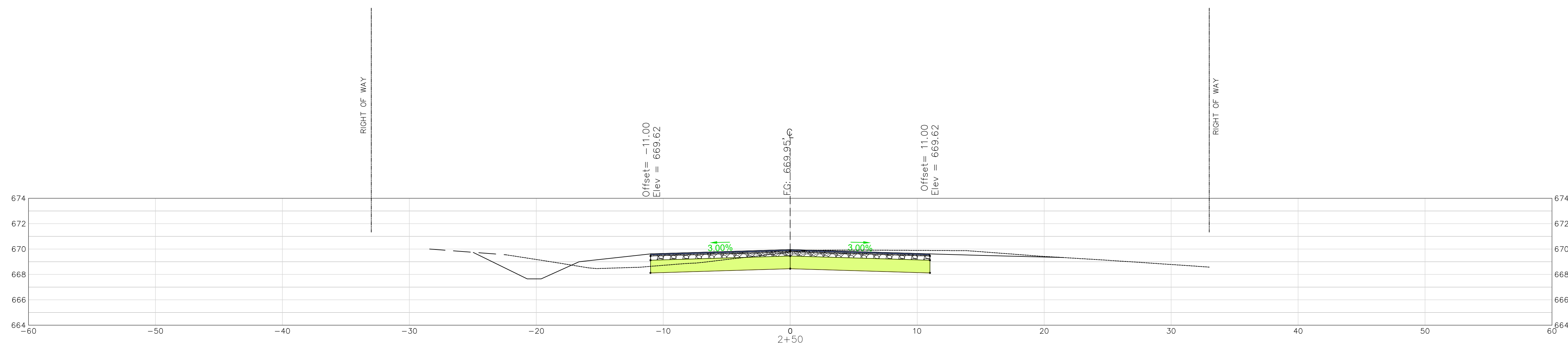
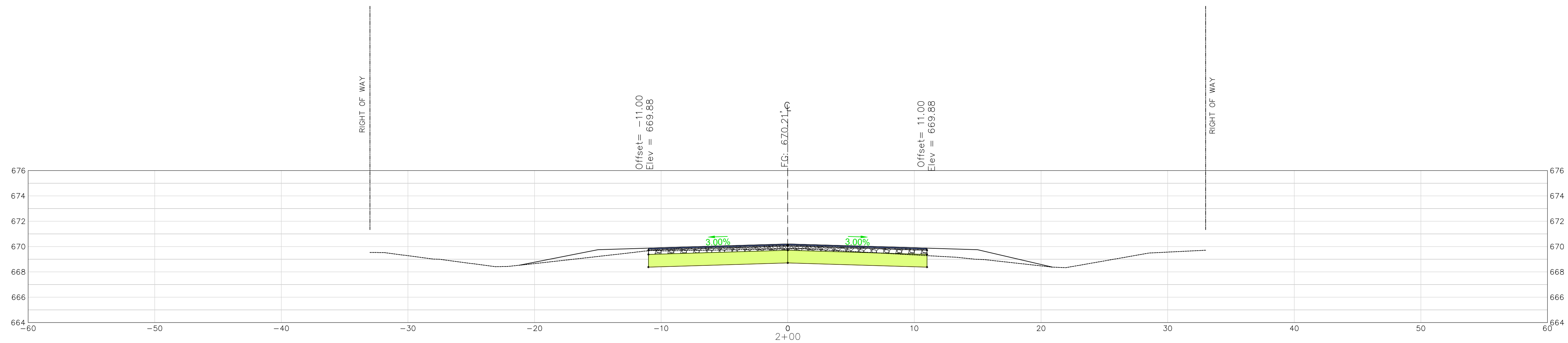
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PROJECT NO.:
 24109-0013

SHEET
 C4.0

DWG NO. 01.1673-D29

May 24, 2024 4:09:12 PM S:\Projects\24109-0013_C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans\CA.0 Entrance Cross Section (4.0 to 4.8).dwg



CROSS SECTIONS 2+00 - 3+00
 SCALE 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

REVISION	DATE

APPROVALS:

ENGINEER BSW	DESIGNER JAM	TITLE/ANGLAN JAT	CHECKED BY BSW	APPROVED BY BSW
-----------------	-----------------	---------------------	-------------------	--------------------

DATE: 5/20/24

SIGNATURE:

Benjamin S. Wilby

Benjamin S. Wilby
 No. 26589
 PROFESSIONAL ENGINEER
 SOUTH CAROLINA

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RUPERT COURTNEY LANE
 CROSS SECTION
 STA 2+00 TO 3+00
 (SHEET 2 OF 13)

DATE: FEBRUARY 2024 SCALE: 1" = 5'

C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
C4.0.dwg

REFERENCE FILE:
24109-0013
BASE.dwg

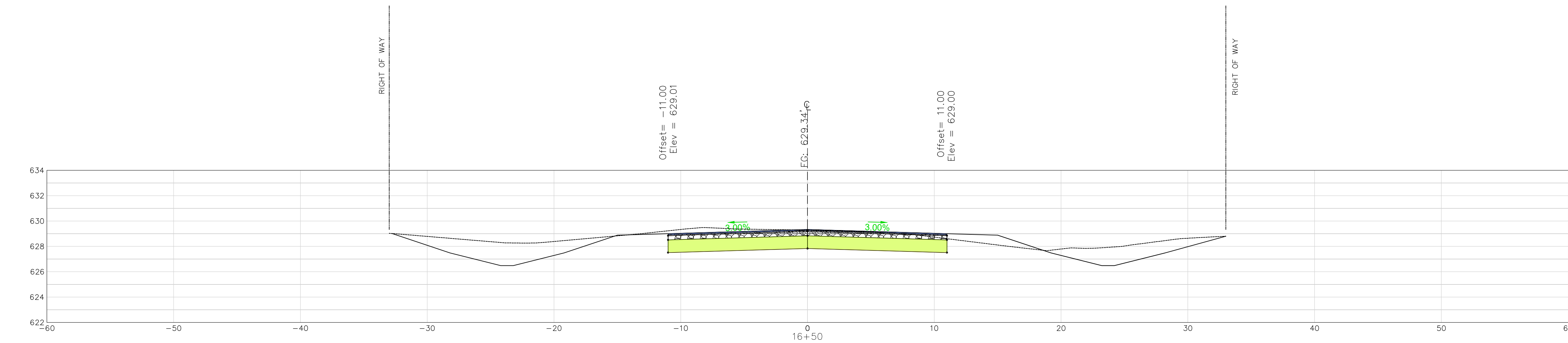
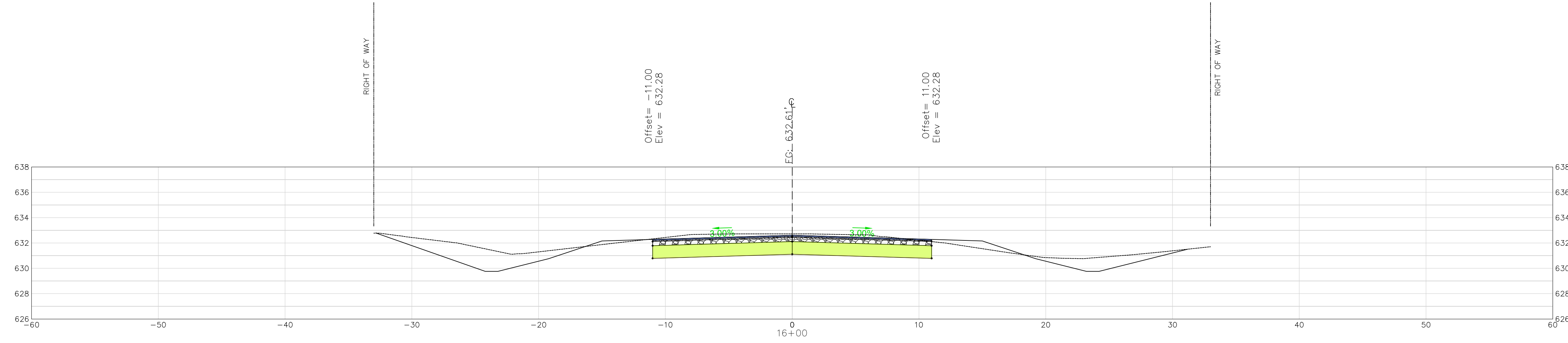
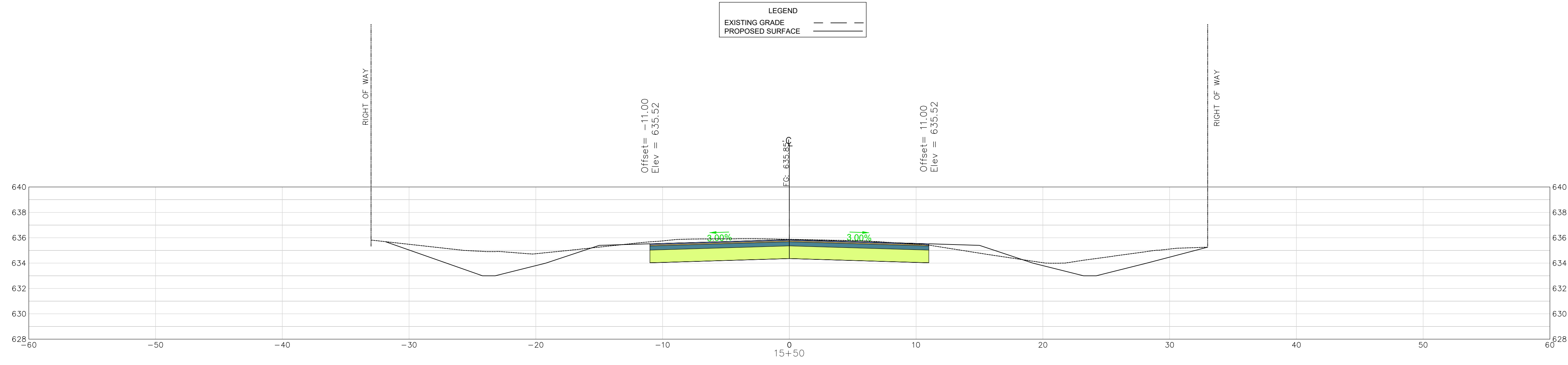
PROJECT NO.
24109-0013

SHEET
C4.1

DWG NO. 01.1673-D29

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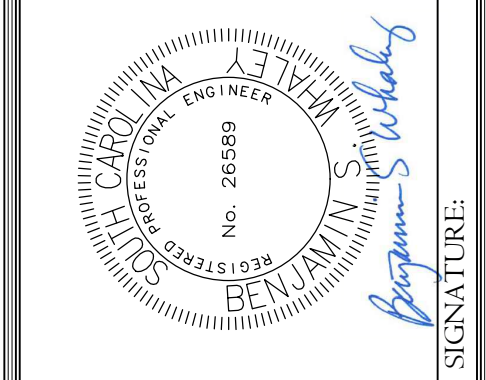
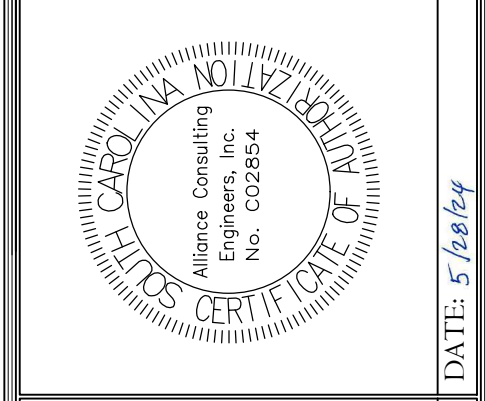
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CROSS SECTIONS 15+50 - 16+50
SCALE 1" = 5' HORIZONTAL
1" = 5' VERTICAL

LEGEND
EXISTING GRADE - - - -
PROPOSED SURFACE ————

APPROVALS	REVISION	DATE
ENGINEER BSW		
DESIGNER JAM		
CHECKER JAM		
APPROVED BY BSW		
APPROVED BY BSW		



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RUPERT COURTNEY LANE
CROSS SECTION
STA 15+50 TO 16+50
(SHEET 11 OF 13)

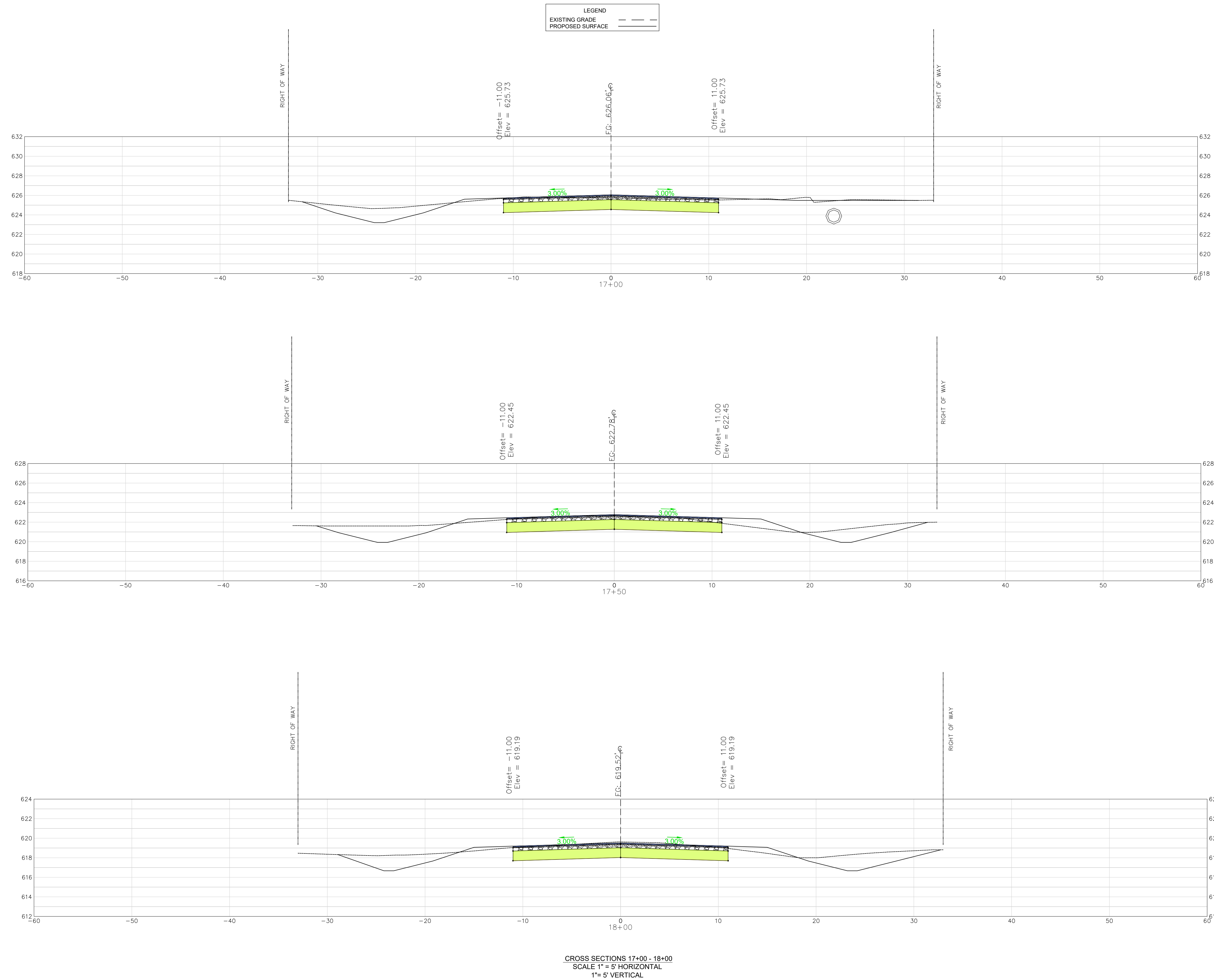
**C-FUND ROADWAY PAVING OF
±1,900-LF RUPERT COURTNEY
LANE OFF US HIGHWAY 601 IN
THE TOWN OF PAGELAND IN
CHESTERFIELD COUNTY,
SOUTH CAROLINA**

FILE NAME: C4.0.dwg	SHEET C4.10
REFERENCE FILE: 24109-0013 BASE.dwg	
PROJECT NO. 24109-0013	

DWG NO. 01.1673-D29

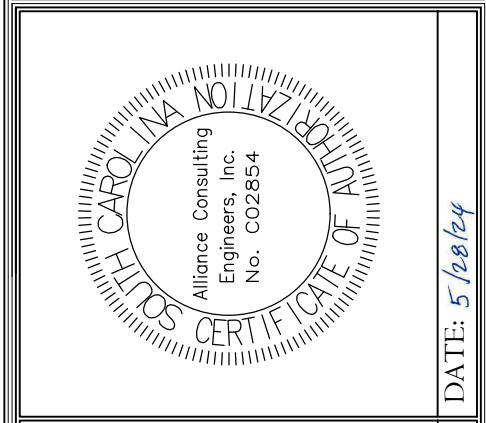
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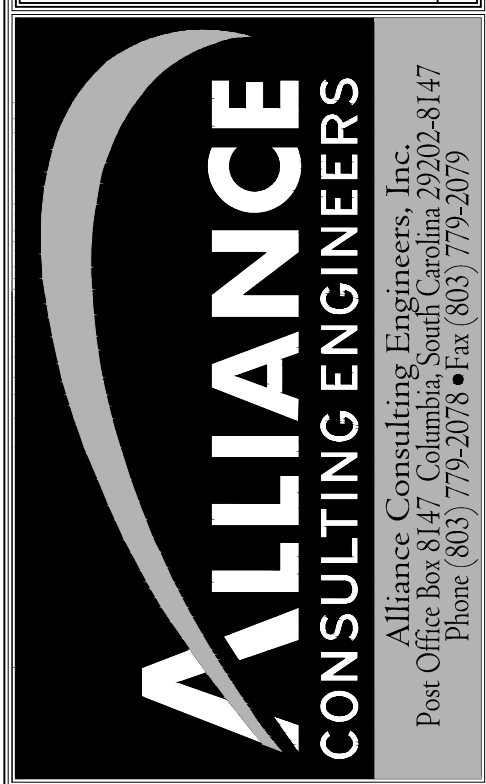
REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER JAM	
CHECKED BY JAT	
APPROVED BY BSW	
APPROVED BY BSW	



SIGNATURE: *Benjamin J. Williams*

DATE: 5/20/24



PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 17+00 TO 18+00
 (SHEET 12 OF 13)

DATE: FEBRUARY 2024
SCALE: 1" = 5'

FILE NAME:
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REFERENCE FILE:
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 BASE.dwg

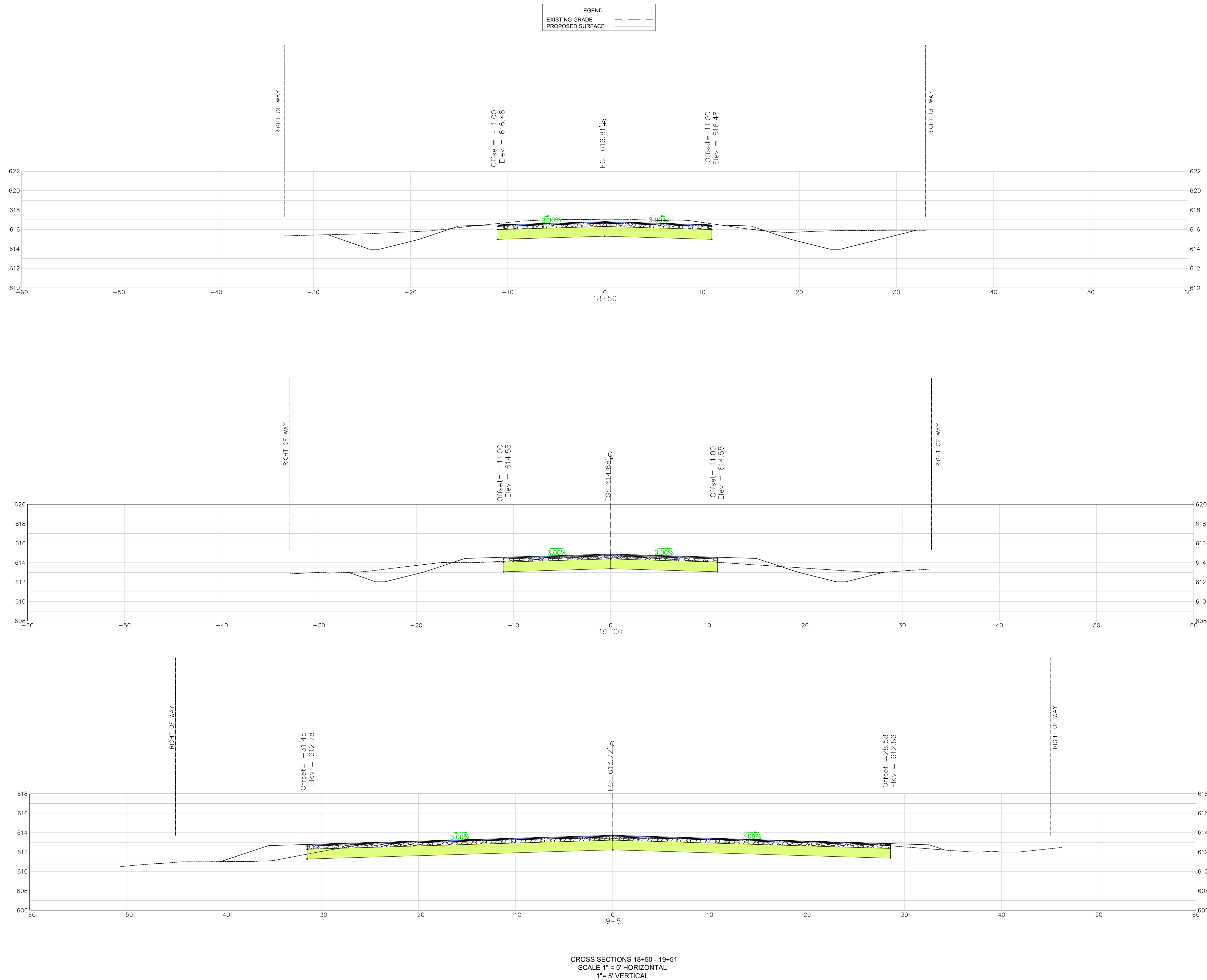
PROJECT NO.:
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SHEET
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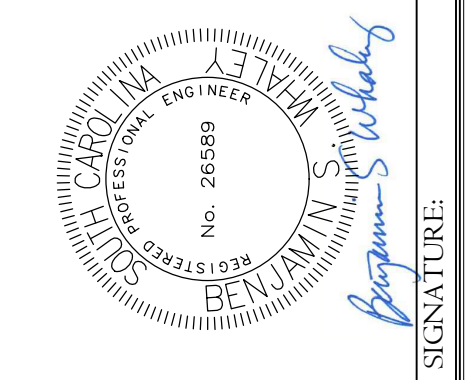
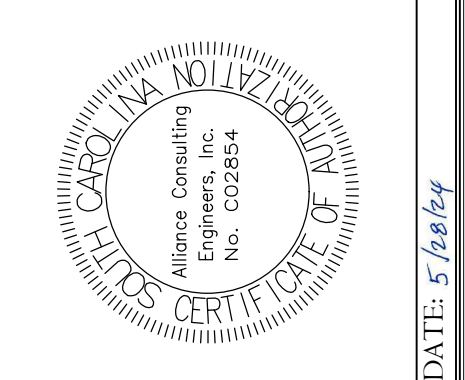
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APPROVALS	REVISION DATE
ENGINEER BSW	
DESIGNER JAM	
CHECKED BY JAH	
APPROVED BY BSW	



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PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 18+50 TO 19+51
 (SHEET 13 OF 13)

FILE NAME:
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REFERENCE FILE:
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 BASE.dwg

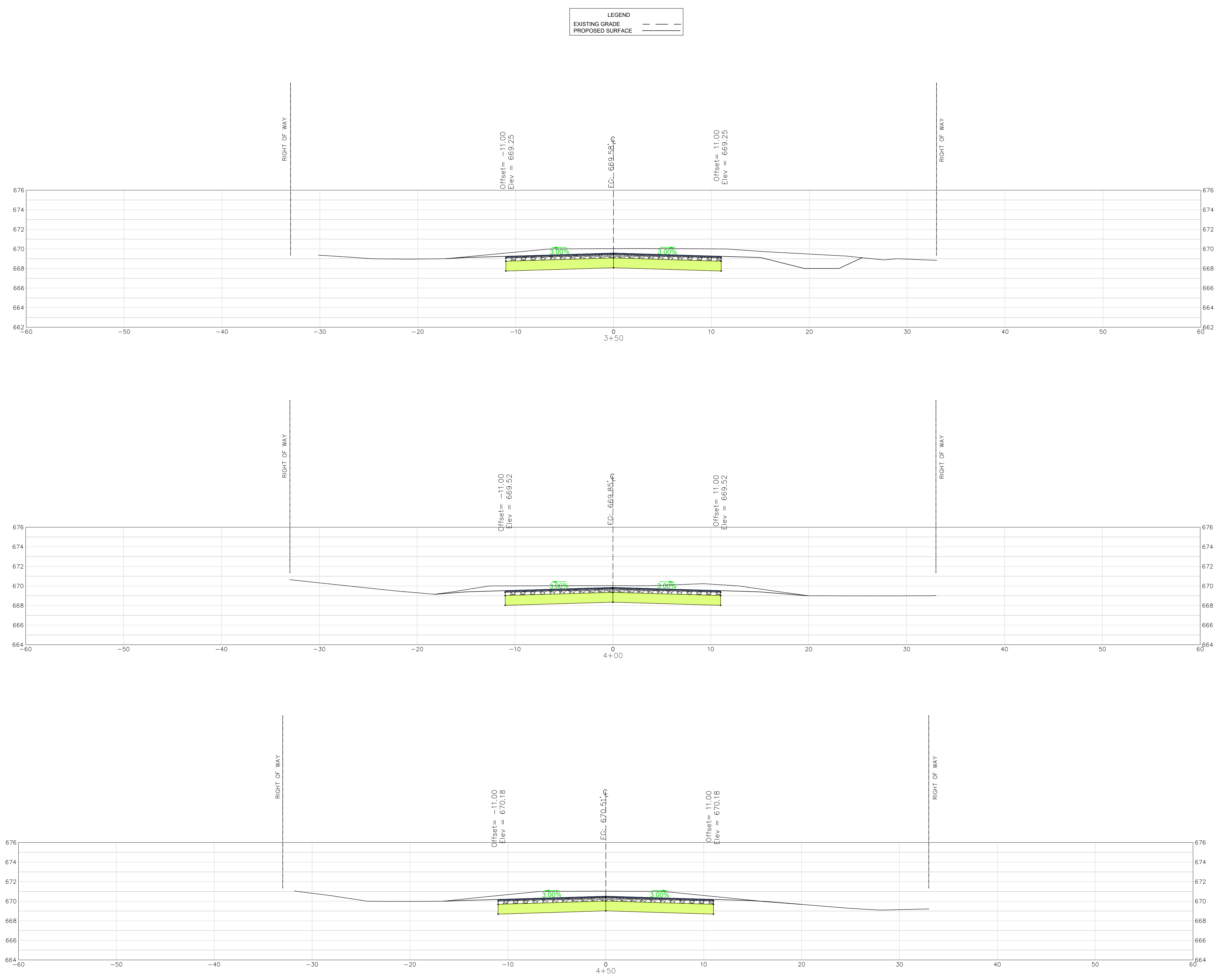
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SHEET
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DWG NO. 01.1673-D29

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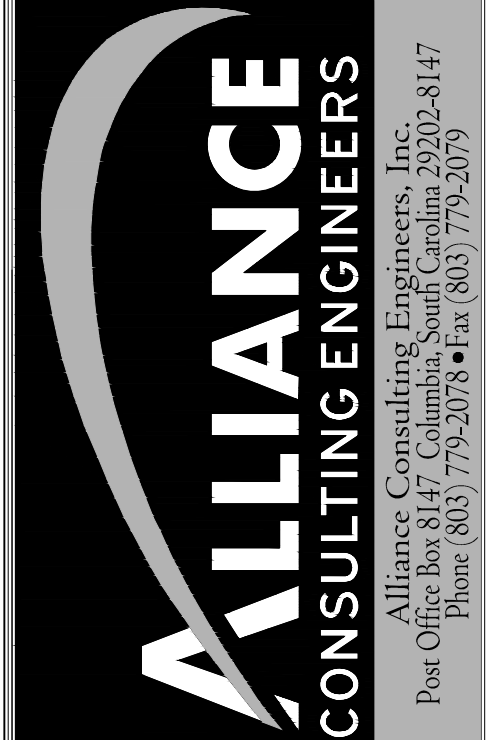
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APPROVALS	REVISION	DATE
ENGINEER BSW		
DESIGNER JAM		
CHECKER JAM		
APPROVED BY BSW		



SIGNATURE:
Benjamin J. Williams
 DATE: 5/20/24



PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 3+50 TO 4+50
 (SHEET 3 OF 13)

DATE: FEBRUARY 2024
 SCALE: 1" = 5'

FILE NAME:
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REFERENCE FILE:
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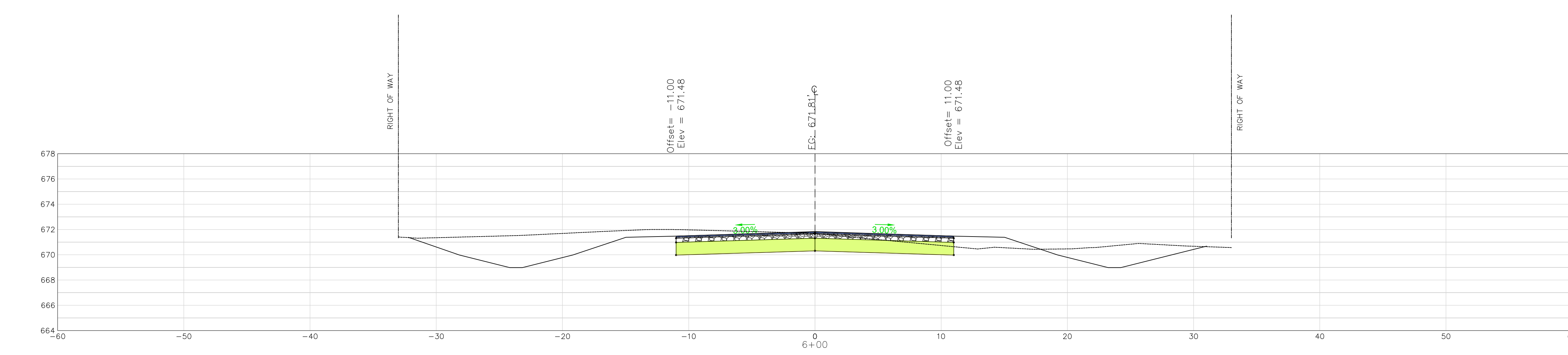
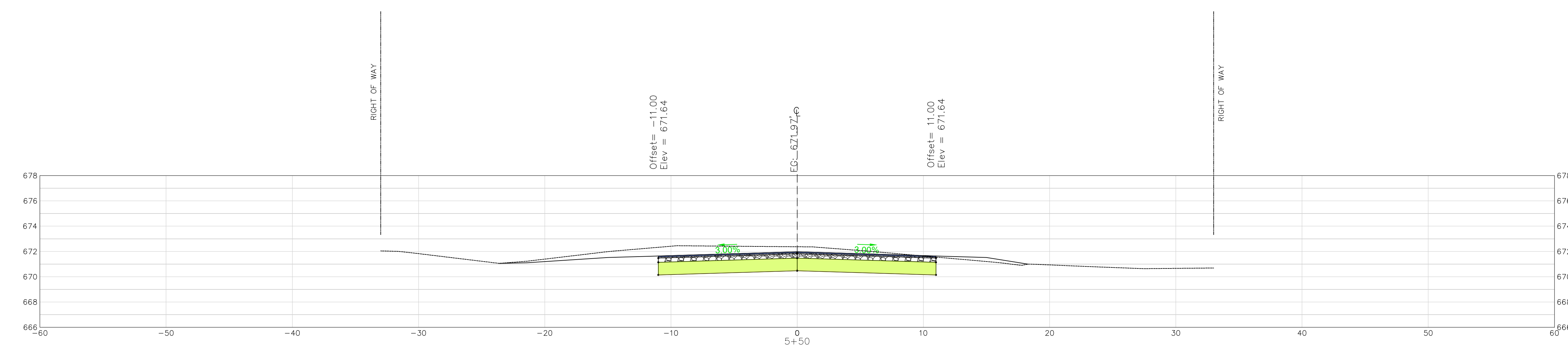
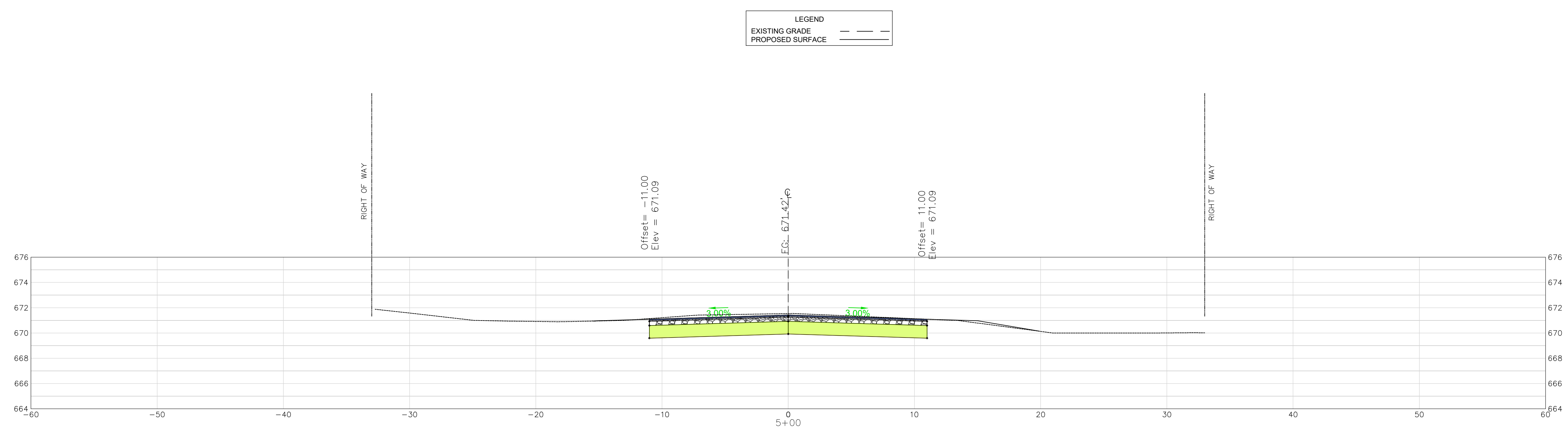
PROJECT NO.:
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SHEET
 C4.2

DWG NO. 01.1673-D29

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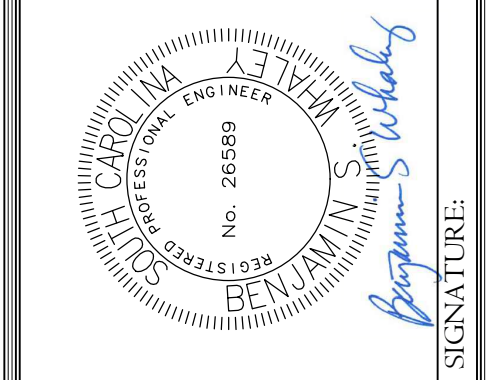
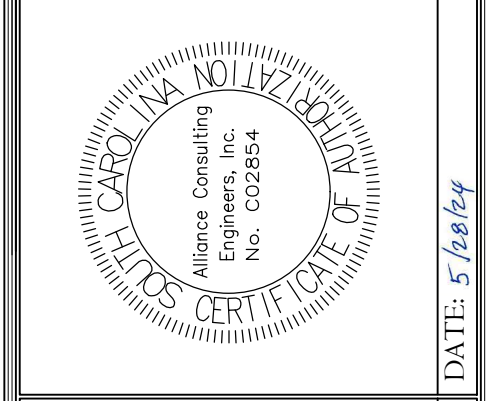
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CROSS SECTIONS 5+00 - 6+00
 SCALE 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER JAM	
CHECKER JAM	
APPROVED BY BSW	



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PROJECT
 C-FUND ROADWAY PAVING OF
 1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 5+00 TO 6+00
 (SHEET 4 OF 13)

DATE: FEBRUARY 2024
 SCALE: 1" = 5'

FILE NAME:
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REFERENCE FILE:
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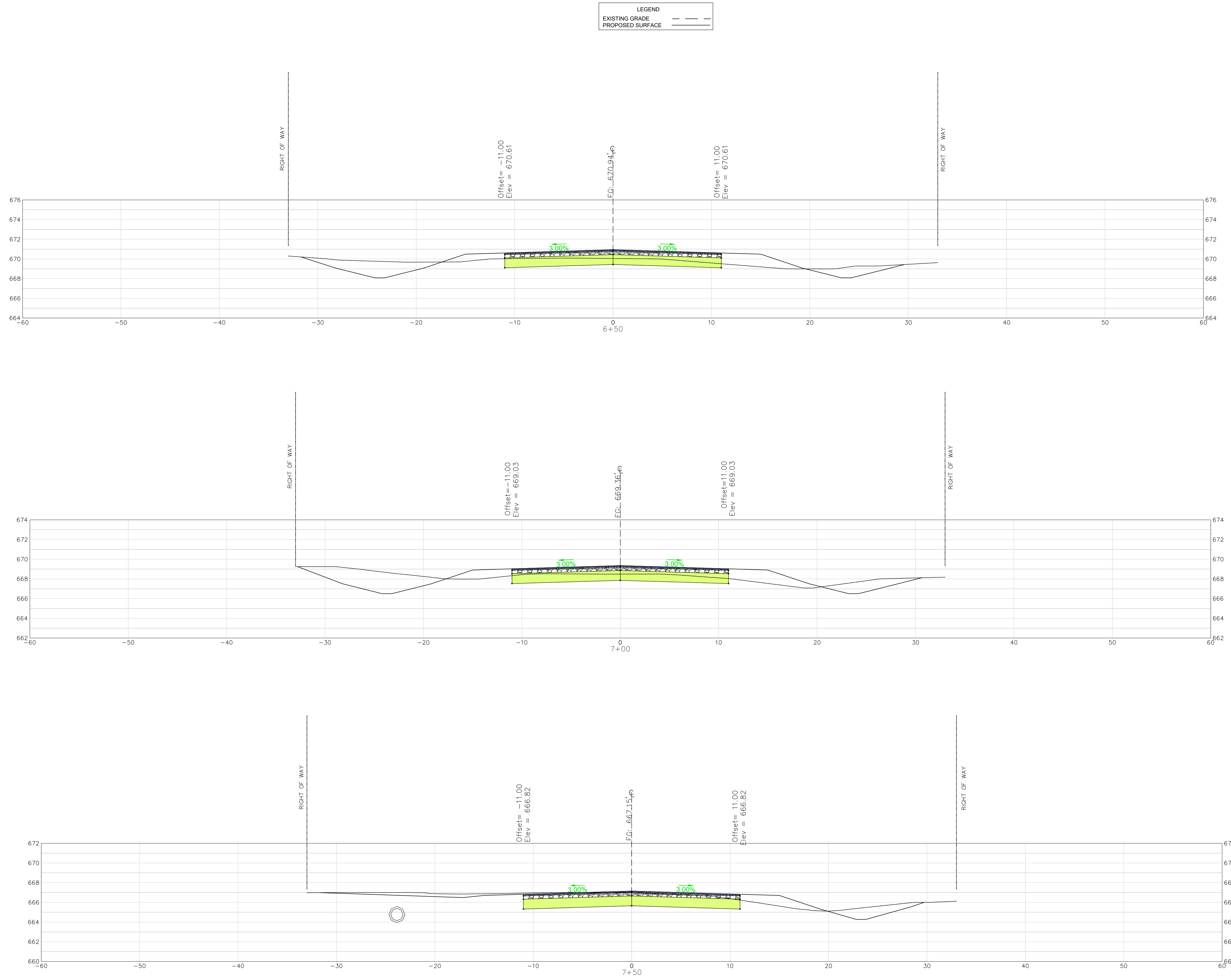
PROJECT NO.:
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SHEET
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DWG NO. 01.1673-D29

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CROSS SECTIONS 6+50 - 7+50
 SCALE 1" = 5' HORIZONTAL
 1" = 5' VERTICAL

REVISION	
NO.	DATE

APPROVALS:

ENGINEER	DESIGNER	CHECKED BY	APPROVED BY
BSW	JAM	JAM	BSW
THOMAS ANGLAN			

DATE: 5/20/24

SIGNATURE:

Benjamin S. Wilby

No. 26589

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SHEET

RUPERT COURTNEY LANE
 CROSS SECTION
 STA 6+50 TO 7+50
 (SHEET 5 OF 13)

DATE: FEBRUARY 2024
 SCALE: 1" = 5'

PROJECT

C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
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REFERENCE FILE:
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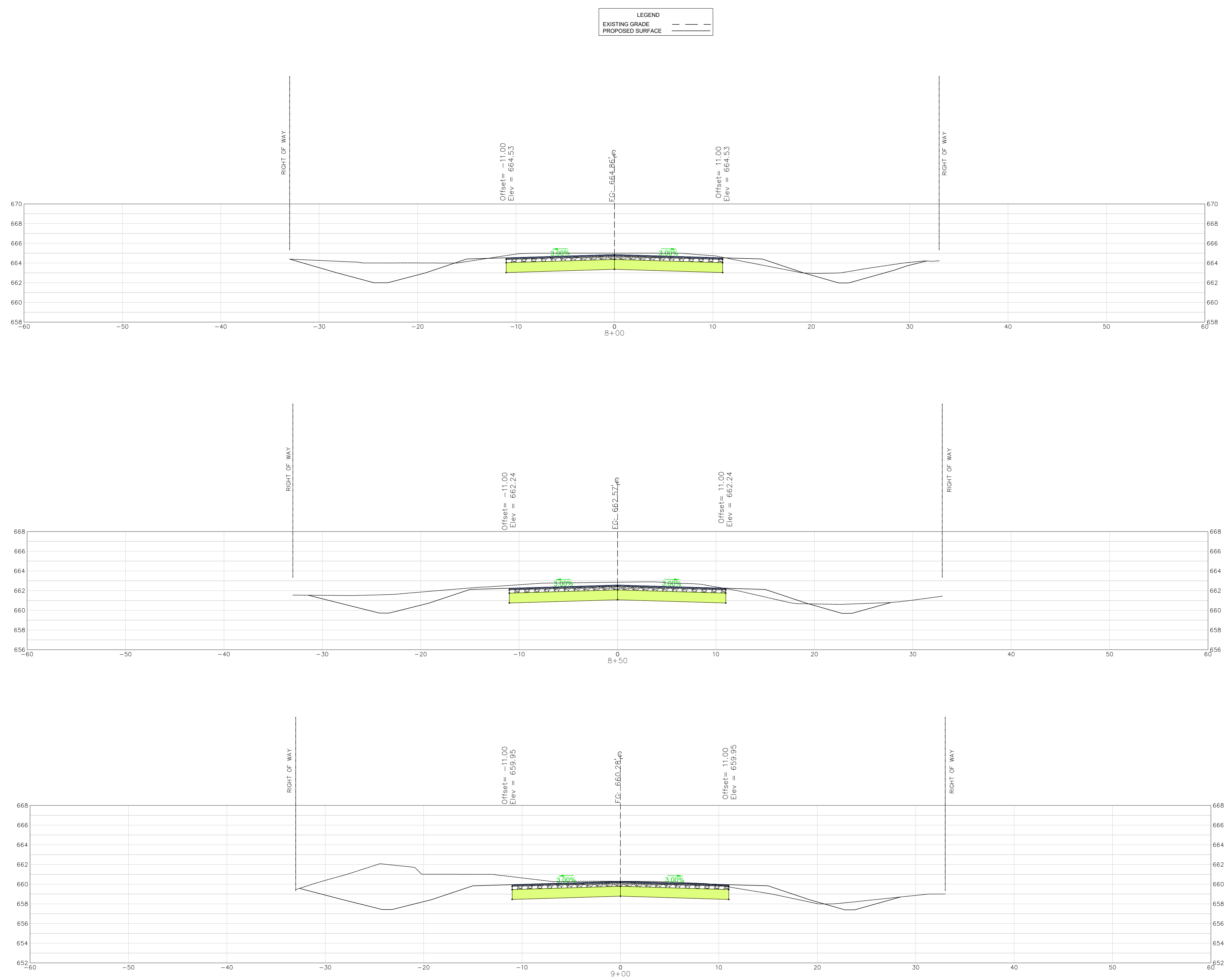
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SHEET
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DWG NO. 01.1673-D29

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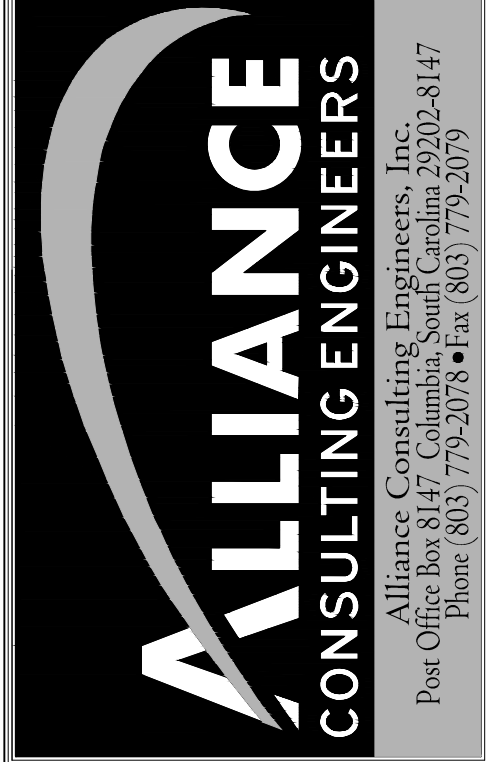
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APPROVALS	REVISION	DATE
ENGINEER BSW		
DESIGNER JAM		
CHECKER JAM		
APPROVED BY BSW		



SIGNATURE:
Benjamin J. Williams
 DATE: 5/20/24



PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 8+00 TO 9+00
 (SHEET 6 OF 13)

DATE: FEBRUARY 2024
SCALE: 1" = 5'

FILE NAME:
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REFERENCE FILE:
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 BASE.dwg

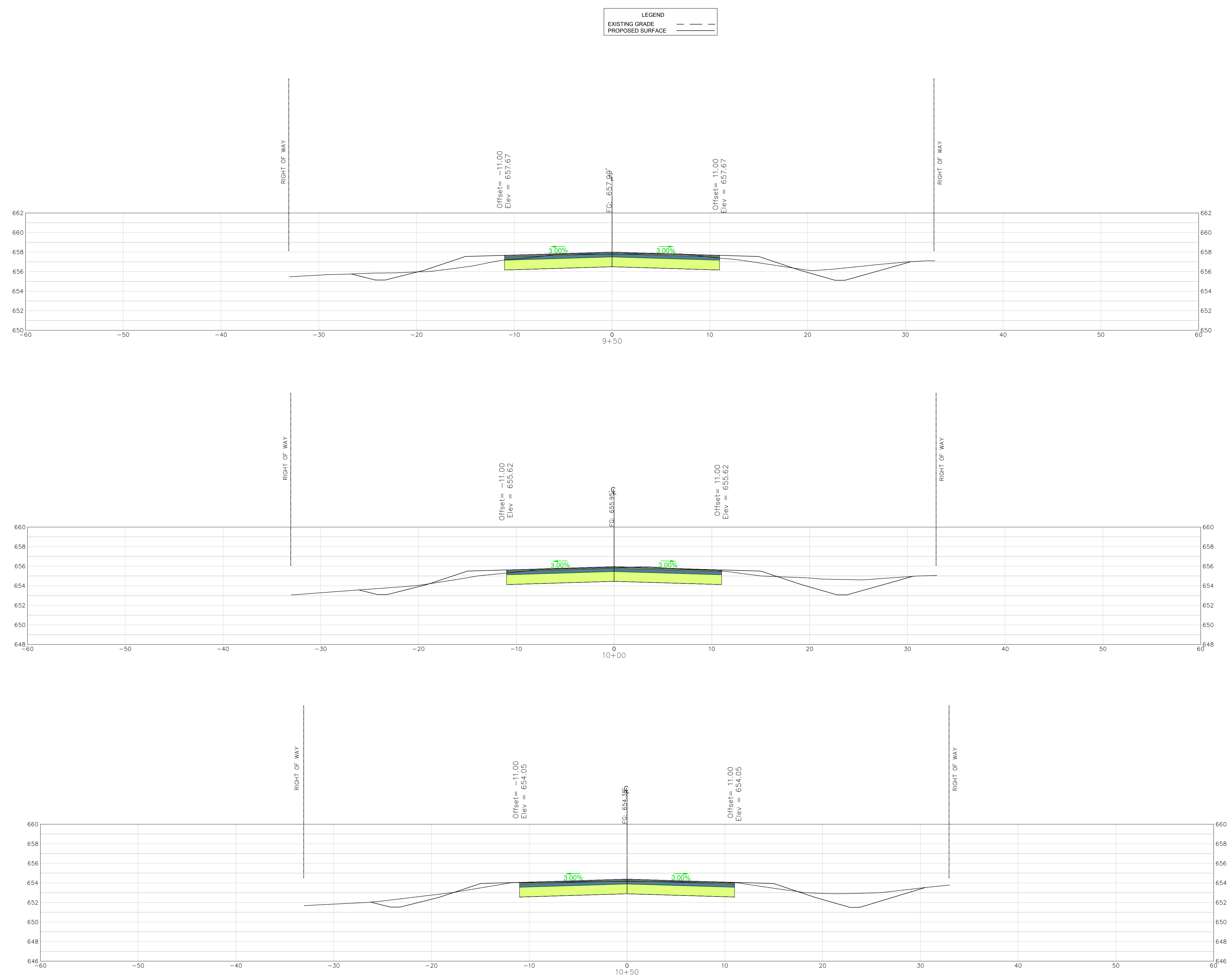
PROJECT NO.:
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SHEET
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DWG NO. 01.1673-D29

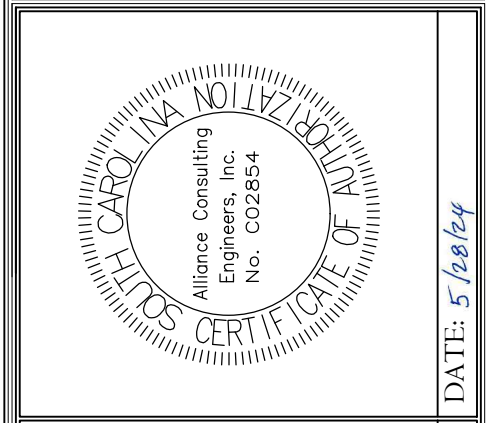
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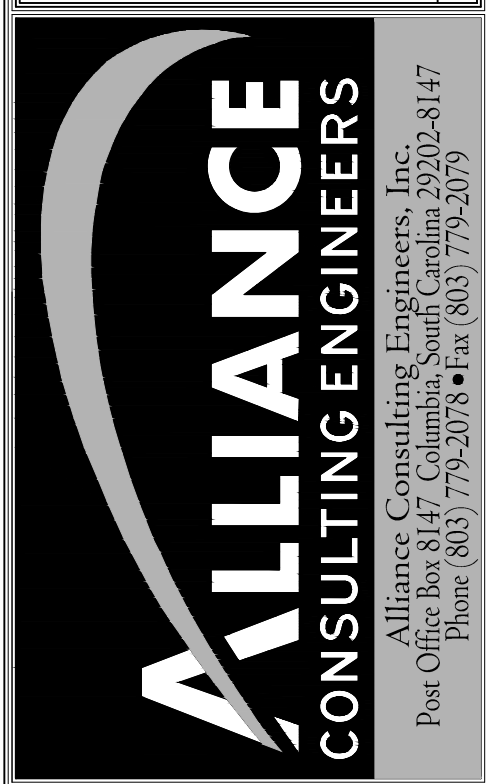


REVISION	DATE

APPROVALS
ENGINEER: BSW
DESIGNER: JAM
CHECKED BY: JAM
APPROVED BY: BSW



SIGNATURE: *Benjamin J. Williams*
 DATE: 5/20/24



PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 9+50 TO 10+50
 (SHEET 7 OF 13)

DATE: FEBRUARY 2024
SCALE: 1" = 5'

FILE NAME:
 C4.0.dwg

REFERENCE FILE:
 24109-0013
 BASE.dwg

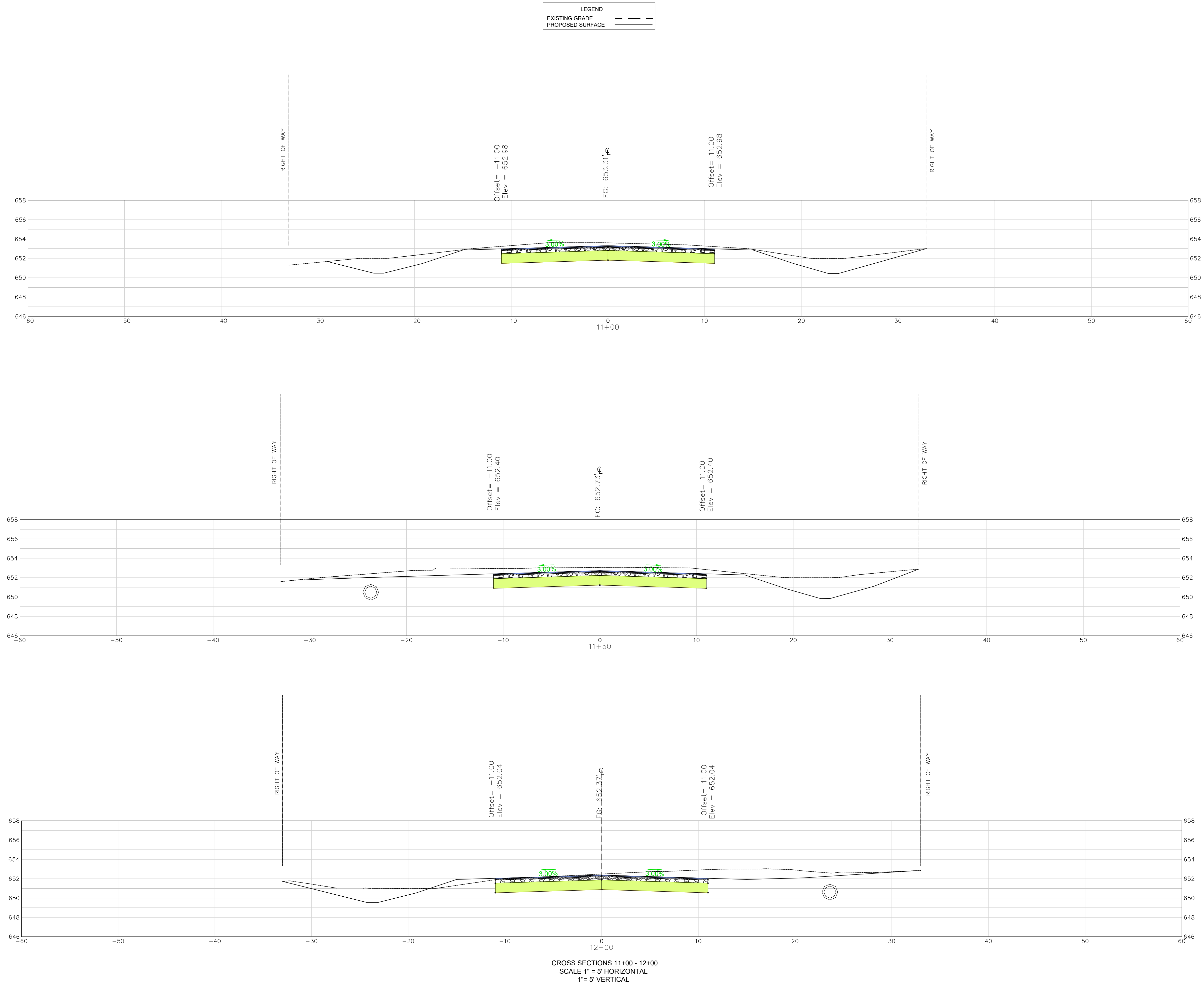
PROJECT NO.:
 24109-0013

SHEET
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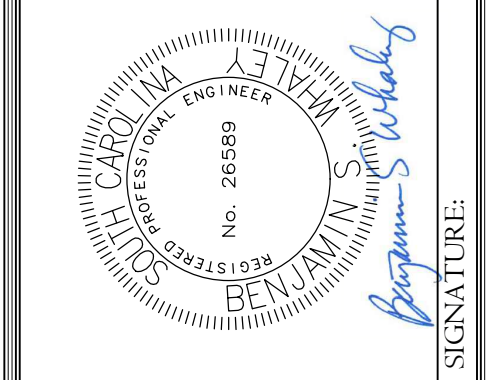
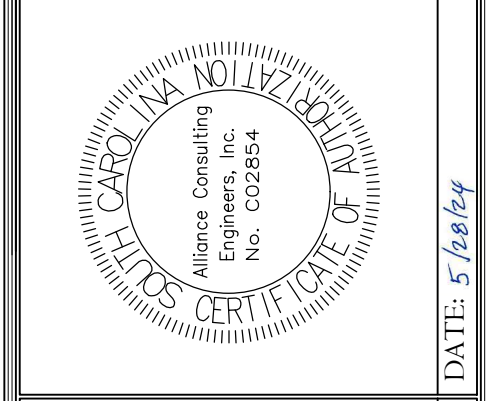
DWG NO. 01.1673-D29

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May 24, 2024 - 4:18:19 PM S:\Projects\24109-0013_C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans\CA.7 Entrance Cross Section (4.7 to 4.12).dwg



APPROVALS	REVISION	DATE
ENGINEER BSW		
DESIGNER JAM		
CHECKED BY JAT		
APPROVED BY BSW		



ALLIANCE CONSULTING ENGINEERS
 Alliance Consulting Engineers, Inc.
 Post Office Box 8147, Columbia, South Carolina 29202-8147
 Phone (803) 792-2078 • Fax (803) 792-2079

PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 11+00 TO 12+00
 (SHEET 8 OF 13)

FILE NAME:
 C4.0.dwg

REFERENCE FILE:
 24109-0013
 BASE.dwg

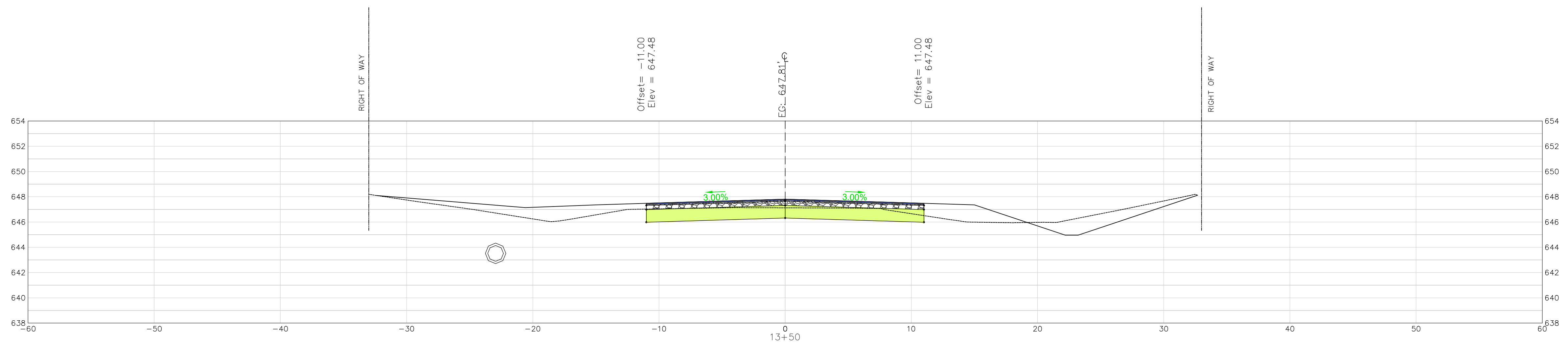
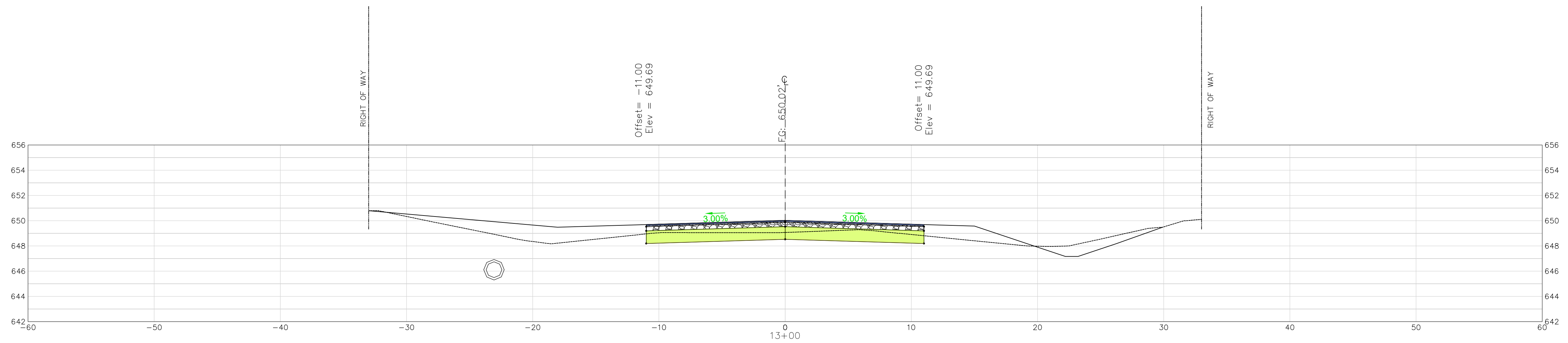
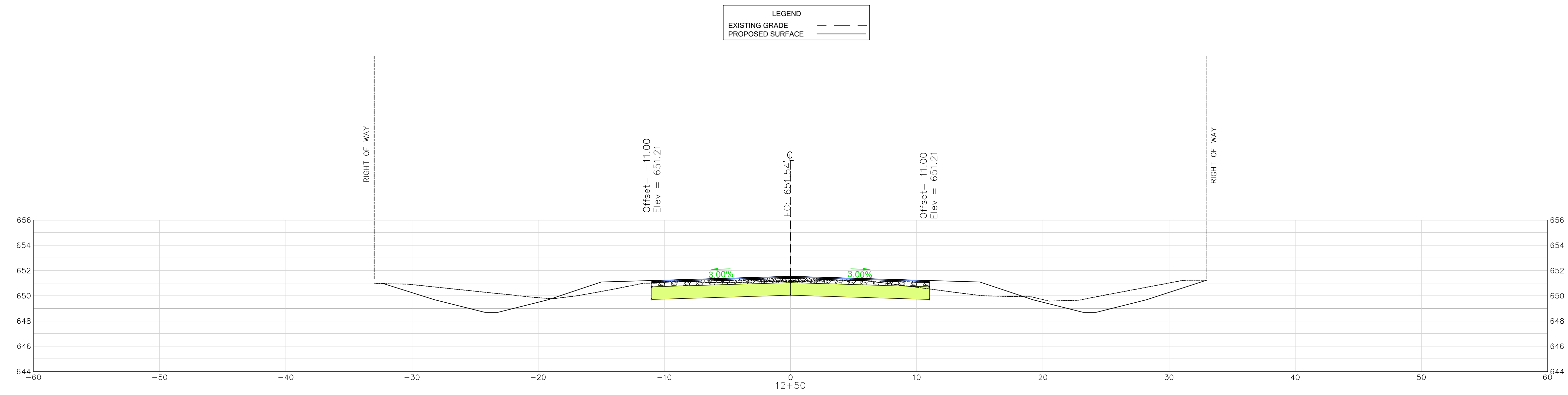
PROJECT NO.:
 24109-0013

SHEET
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DWG NO. 01.1673-D29

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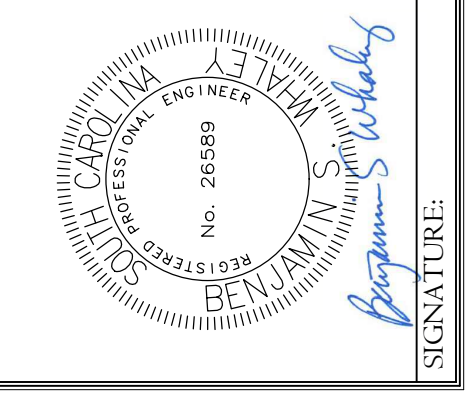
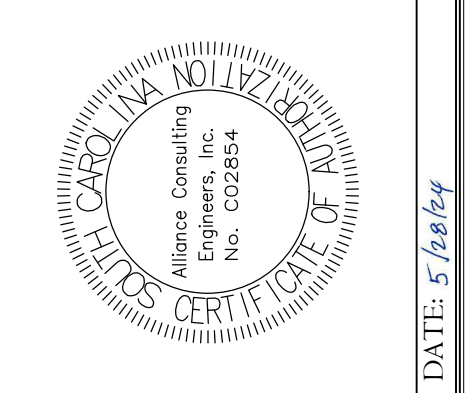


CROSS SECTIONS 12+50 - 13+50
SCALE 1" = 5' HORIZONTAL
1" = 5' VERTICAL

LEGEND	
---	EXISTING GRADE
---	PROPOSED SURFACE

REVISION DATE	

APPROVALS	
ENGINEER BSW	
DESIGNER JAM	
TITLE MANAGER JAT	
CHECKED BY BSW	
APPROVED BY BSW	



ALLIANCE CONSULTING ENGINEERS
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Post Office Box 8147, Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

RUPERT COURTNEY LANE
CROSS SECTION
STA 12+50 TO 13+50
(SHEET 9 OF 13)

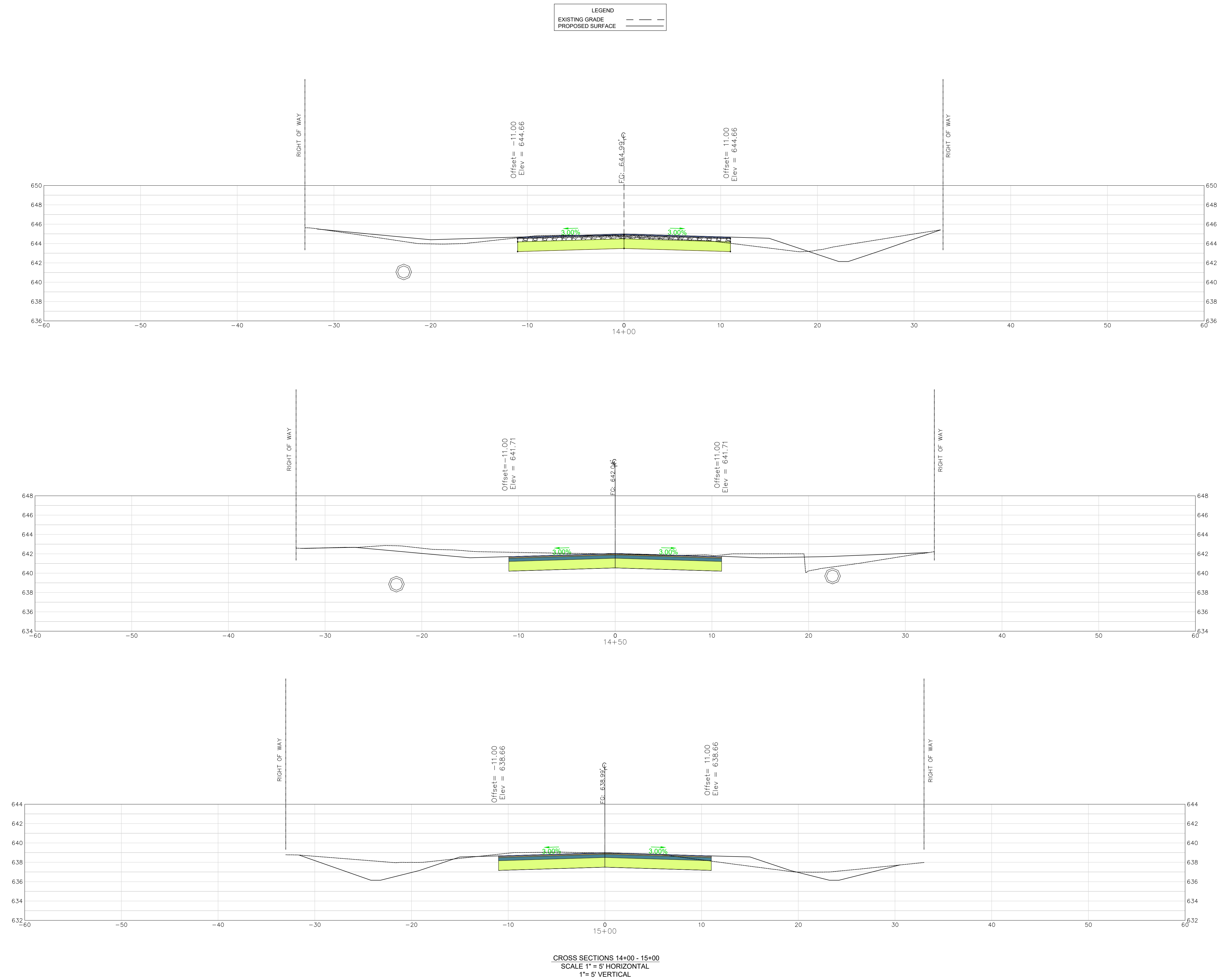
**C-FUND ROADWAY PAVING OF
±1,900-LF RUPERT COURTNEY
LANE OFF US HIGHWAY 601 IN
THE TOWN OF PAGELAND IN
CHESTERFIELD COUNTY,
SOUTH CAROLINA**

FILE NAME: C4.0.dwg	SHEET C4.8
REFERENCE FILE: 24109-0013 BASE.dwg	
PROJECT NO. 24109-0013	

DWG NO. 01.1673-D29

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May 24, 2024 - 4:19:31 PM S:\Projects\24109-0013_C-Fund Paving Rupert Courtney Ln Chesterfield County\Construction Plans\C4.7 Entrance Cross Section (4.7 to 4.12).dwg

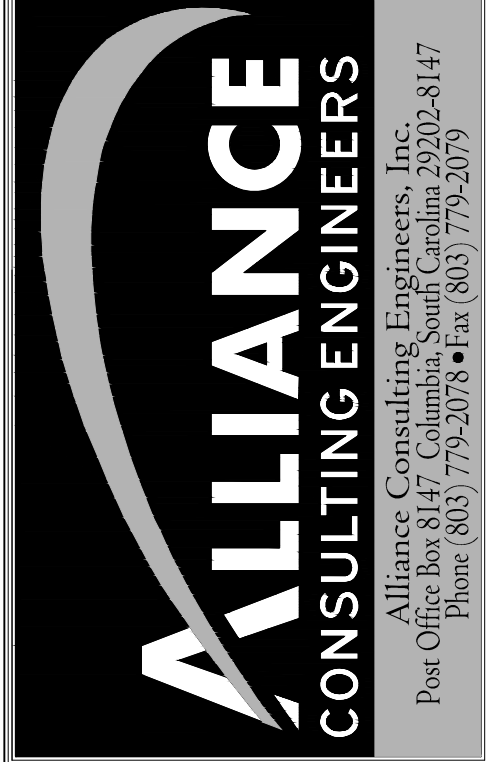


REVISION	
NO.	DATE

APPROVALS	
ENGINEER BSW	DESIGNER JAM
CHECKED BY JAT	APPROVED BY BSW



SIGNATURE: *Benjamin J. Williams*
 DATE: 5/20/24



PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
 CHESTERFIELD COUNTY,
 SOUTH CAROLINA

SHEET
 RUPERT COURTNEY LANE
 CROSS SECTION
 STA 14+00 TO 15+00
 (SHEET 10 OF 13)

DATE: FEBRUARY 2024
SCALE: 1" = 5'

FILE NAME:
 C4.0.dwg

REFERENCE FILE:
 24109-0013
 BASE.dwg

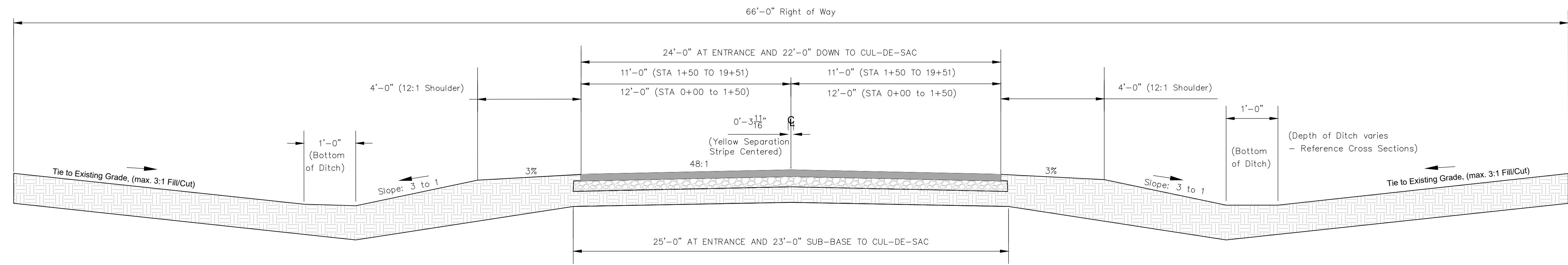
PROJECT NO.:
 24109-0013

SHEET
 C4.9

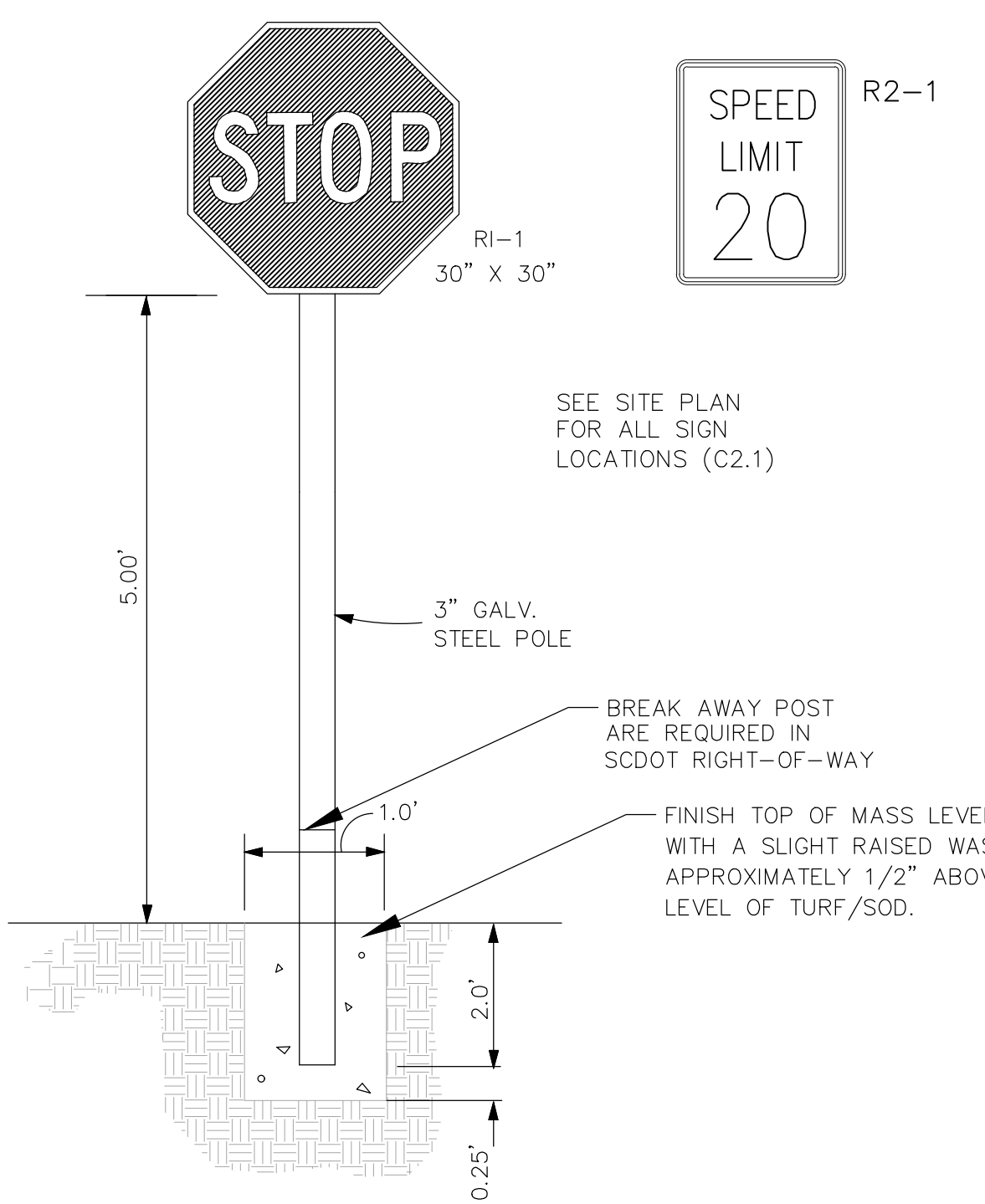
DWG NO. 01.1673-D29

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May 28, 2024 - 2:58:02 PM S:\Projects\24109-0013 C-Fund Paving Rupert Courtney Ln Chesterfield Cowlwy\Construction Plans C-5.0 Site Details.dwg



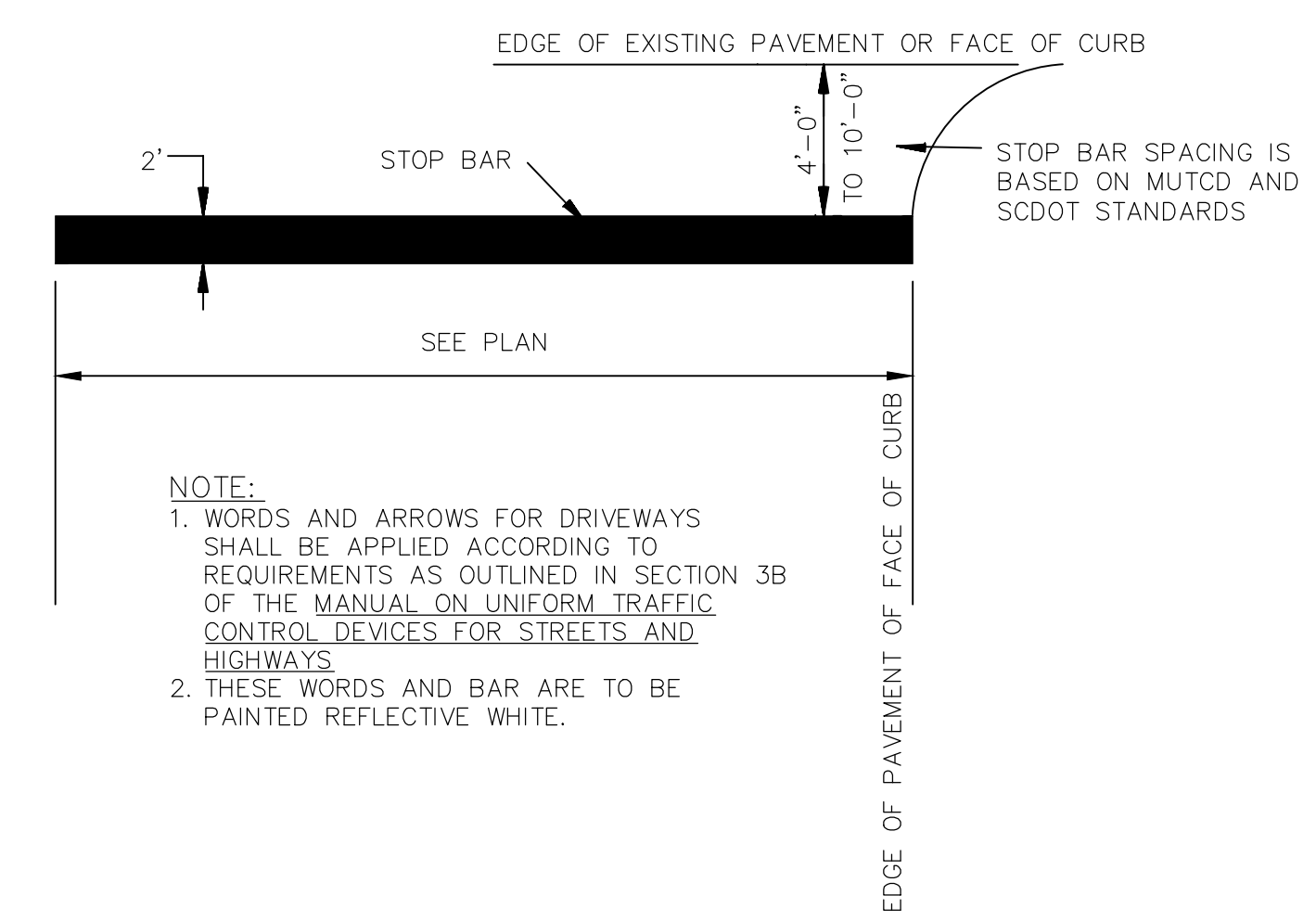
TYPICAL LOCAL ROADWAY SECTION



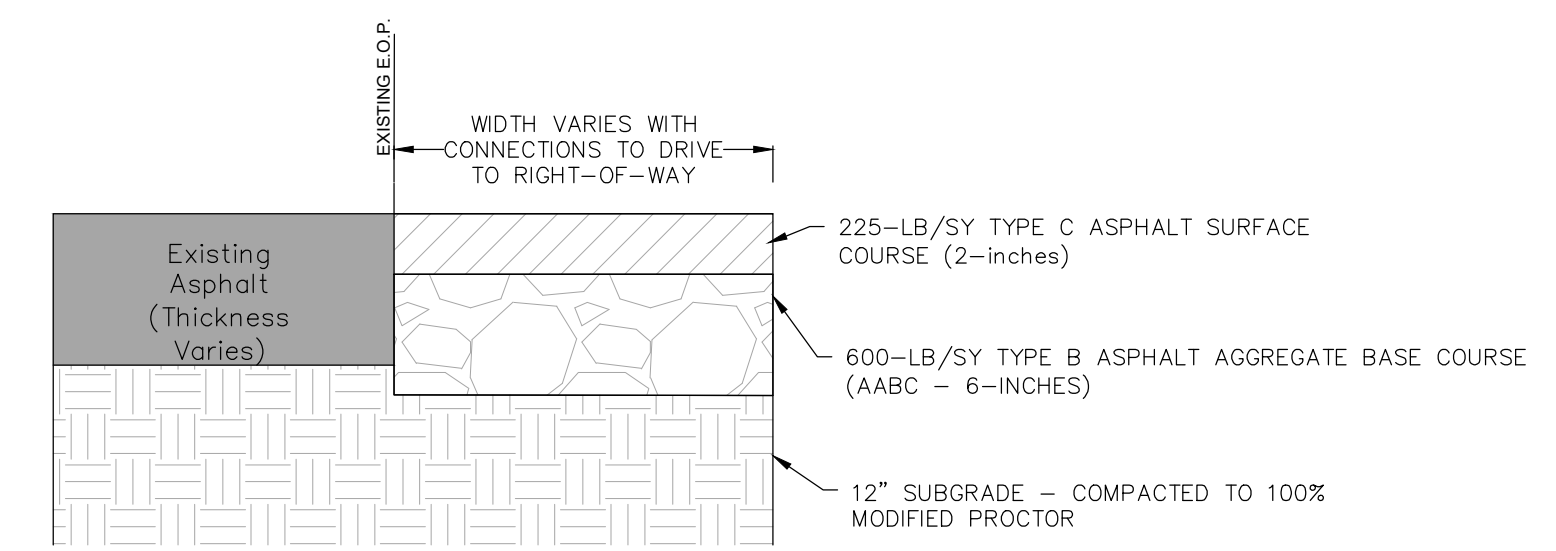
TYPICAL SIGN DETAIL
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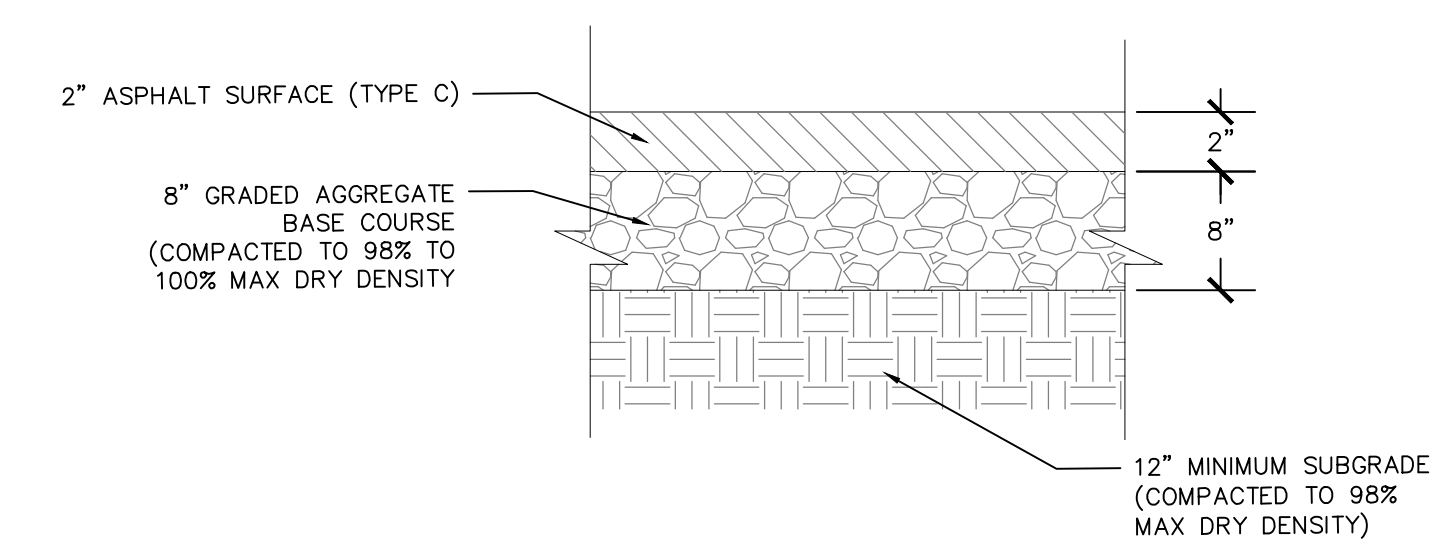
DRIVEWAY STRIPING DETAIL
(NOT TO SCALE)



STOP BAR DETAIL
(NOT TO SCALE)



SCDOT ASPHALT
SCALE: N.T.S.



LOCAL ASPHALT SECTION
SCALE: N.T.S.

REVISION	DATE

APPROVALS	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
BSW	JAM	JAH	BSW	BSW

ALLIANCE CONSULTING ENGINEERS, INC. No. 26889
 PROFESSIONAL ENGINEER
 BE JAMIN S. SCHUBERT
 SIGNATURE: *Jamin Schubert*
 DATE: 5/28/24

ALLIANCE CONSULTING ENGINEERS, INC.
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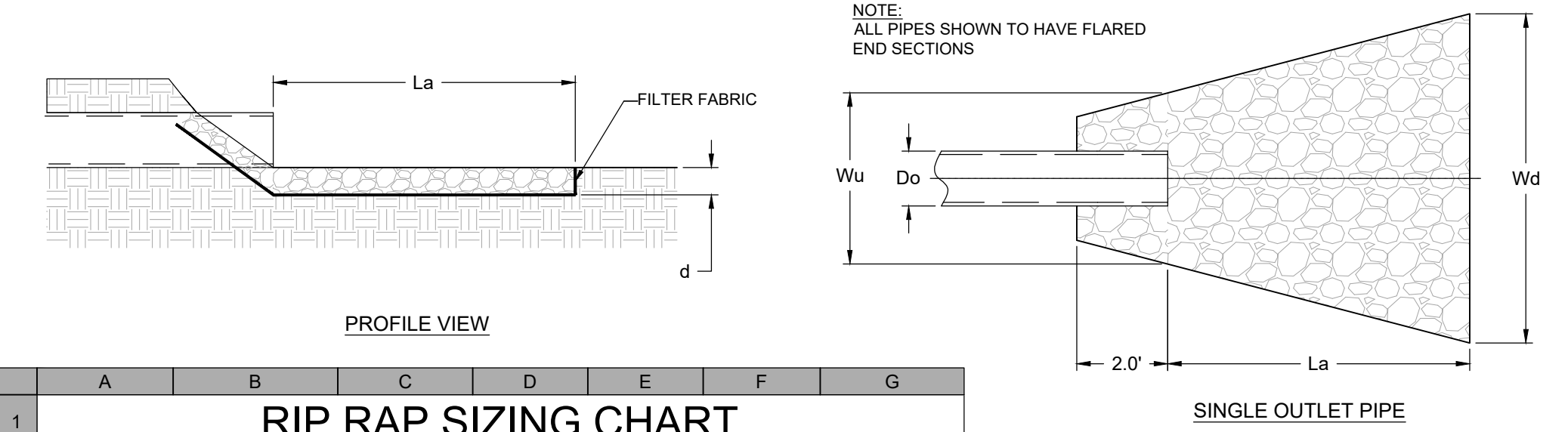
SITE DETAILS
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 DATE: FEBRUARY 2024

PROJECT
 C-FUND ROADWAY PAVING OF
 ±1,900-LF RUPERT COURTNEY
 LANE OFF US HIGHWAY 601 IN
 THE TOWN OF PAGELAND IN
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 CHESTERFIELD COUNTY SOUTH CAROLINA

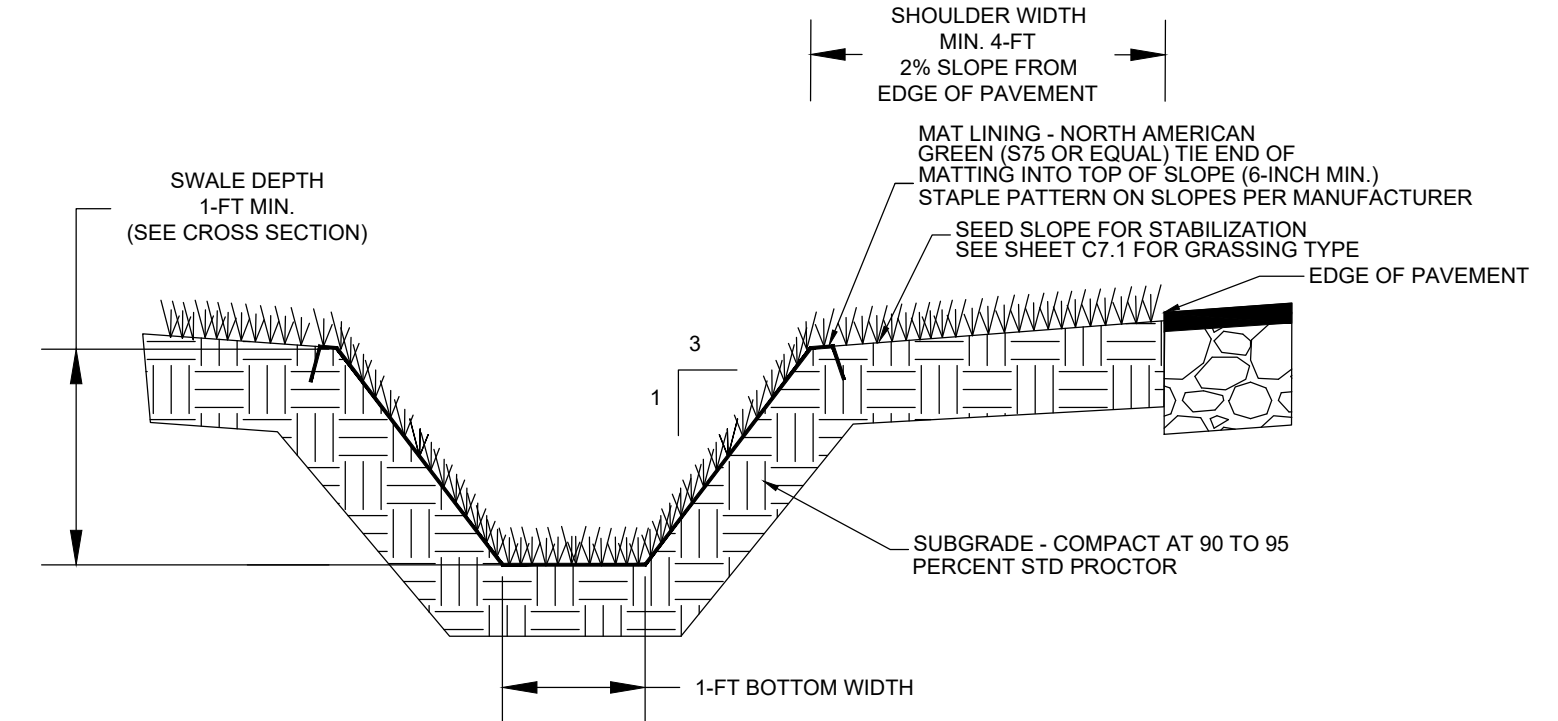
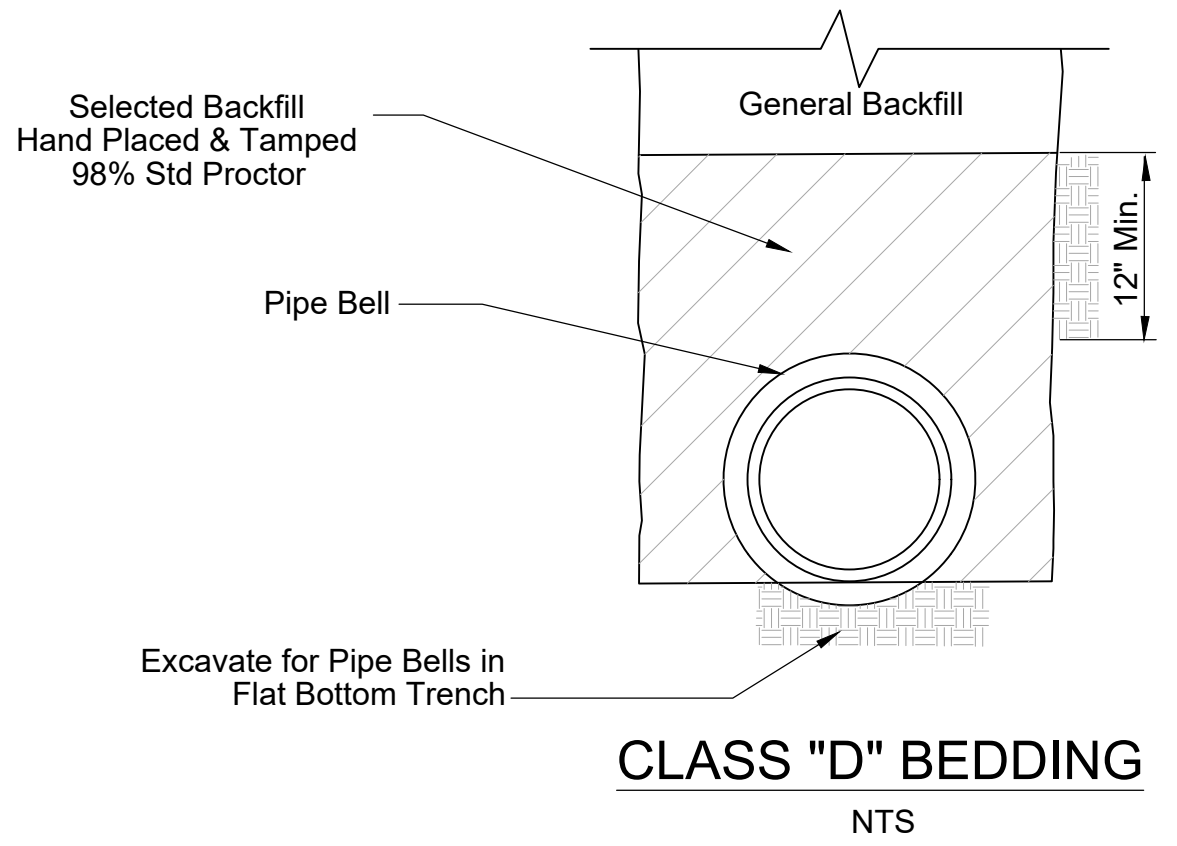
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PROJECT NO. 24109-0013	

DWG NO. 01,1673-D29

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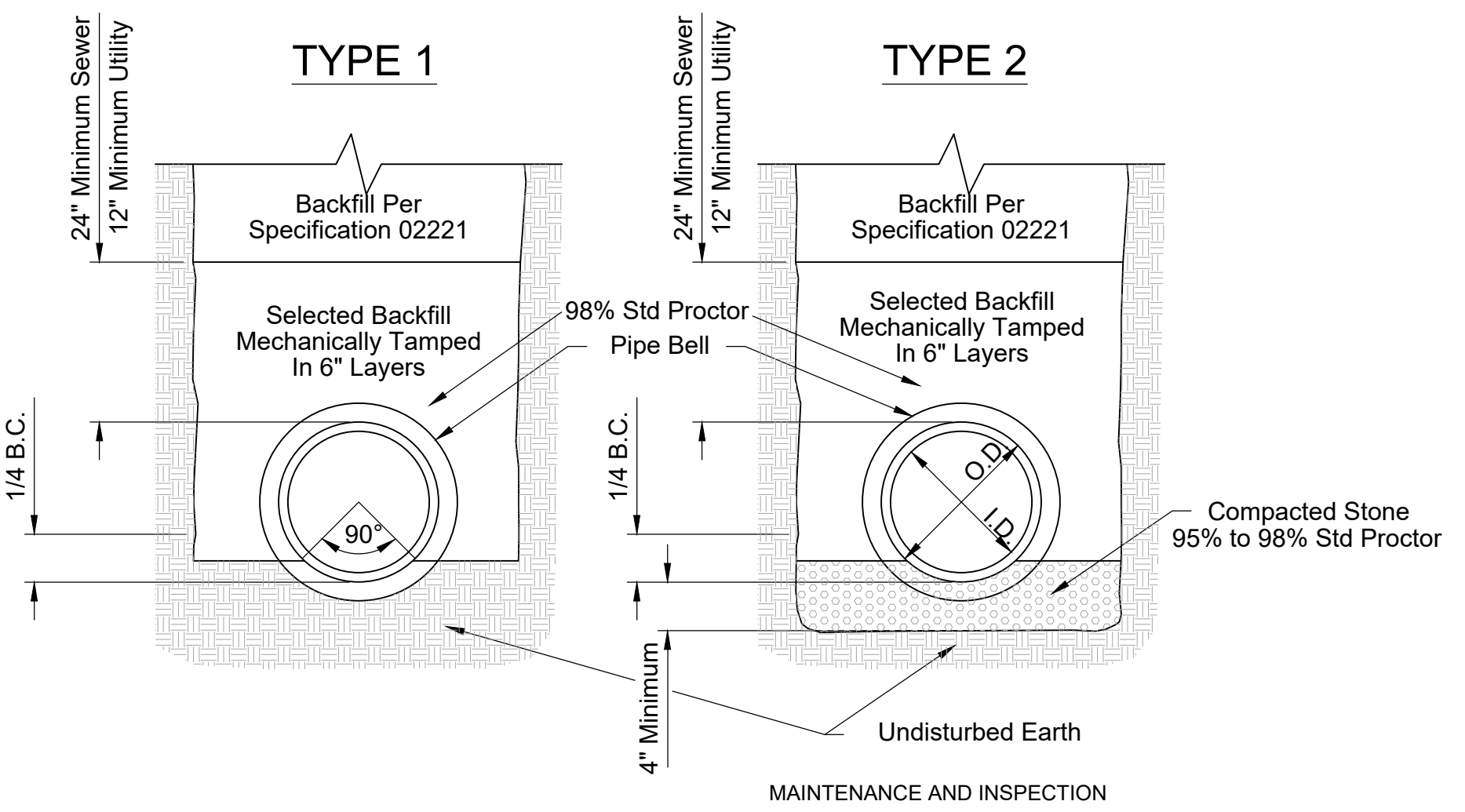
	A	B	C	D	E	F	G
1	RIP RAP SIZING CHART						
2	Outlet Pipe	Outlet Pipe Diameter, Do (inches)	25 Year Storm Outflow, (cfs)	Apron Length, La (ft)	Average Rock Diameter, d50 (feet)	Upstream Protection Width, Wu (feet)	Downstream Protection Width, Wd (feet)
3	CULVERT 1	12	0.48	6	0.50	4.00	10.00
4	CULVERT 2	15	1.48	8	0.50	3.75	9.25
5	CULVERT 3	12	0.81	8	0.50	3.75	7.25
6	CULVERT 4	15	2.23	8	0.50	3.75	9.25
7	CULVERT 5	12	2.68	6	0.50	3.75	7.25
8	CULVERT 6	15	3.80	8	0.50	3.75	9.25
9	CULVERT 7	15	6.19	8	0.50	3.75	9.25
10	CULVERT 8	15	7.50	9	0.50	3.75	10.75
11	CULVERT 9	12	1.23	6	0.50	3.75	7.25
12	CULVERT 10	15	4.11	8	0.50	3.75	9.25
13	CULVERT 11	15	5.10	8	0.50	3.75	9.25
14	CULVERT 12	15	5.97	8	0.50	3.75	9.25
15	CULVERT 13	15	6.88	9.25	0.50	3.75	10.50
16	CULVERT 14	15	8.04	10.25	0.50	3.75	11.50
17	CULVERT 15	15	9.03	11.50	0.50	3.75	12.75
18	ENTRANCE	15	3.95	8	0.50	2.00	10.00
19	CULVERT 16	15	3.61	8	0.50	3.75	9.25
20	CULVERT 17	15	5.19	8	0.50	3.75	9.25
21	CULVERT 18	15	10.19	12.25	0.50	3.75	13.50
22	EX. CULVERT	18	10.29	12.50	0.50	4.50	14.00



MAINTENANCE AND INSPECTION

- DURING CONSTRUCTION, CHECK MATTING AFTER EACH 0.5-INCH STORM EVENT UNTIL GERMINATION OF SEEDS HAS OCCURRED. IF RILLS OCCUR UNDER MATTING OR MATTING COMES UP, PULL UP MATTING AND FILL RILLS AND COMPACT SOIL. RESEED AND REINSTALL MATTING WITH TIE IN AT TOP OF SLOPE AND RE-STAPLE SLOPES.
- AFTER GRASS HAS GERMINATED AT 0.5-INCH HEIGHT, CHECK MATTING TO ENSURE THAT THE SURFACE HAS BEEN STAPLED AND TIED IN AT TOP OF SLOPE TO PREVENT RILLS UNDER THE MATTING.

RIP RAP OUTLET PROTECTION DETAIL
NOT TO SCALE



NOTE:

- TYPE 2 BEDDING USED IN MOIST AREAS (INDICATING GROUNDWATER) AND HIGH TRAFFIC AREAS.
- HAND SHAPED BOTTOM - SHAPE BELL HOLES FOR USE IN DRY EARTH TRENCHES ONLY. APPLICABLE TO BOTH EARTH AND ROCK TRENCHES.
- B.C. = OUTSIDE BELL CIRCUMFERENCE.

- RCP TRENCH WIDTH = PIPE OD + 24-INCH OR 1.33 X PIPE OD OR THE WIDTH REQUIRED TO SAFELY FIT COMPACTION EQUIPMENT AND PERSONNEL BETWEEN THE PIPE AND THE TRENCH WALLS, WHICHEVER IS GREATER.
- EXCAVATE TRENCH (WALL MAY BE SLOPED) FOLLOW OSHA GUIDELINES
- CONSTRUCT EMBANKMENT AS REQUIRED BEFORE EXCAVATION OF PIPE TRENCH. EMBANKMENT BACKFILL MUST BE ABLE TO SUPPORT PIPE STRUCTURAL BACKFILL.
- ADJACENT EMBANKMENT MATERIAL MUST BE COMPACTED WITHIN 5% OF COMPACTION LEVEL OF STRUCTURAL BACKFILL.
- WHEN BEDDING MATERIAL IS REQUIRED, PLACE STRUCTURAL BACKFILL LIFTS AS DESCRIBED IN SC-M-714 AT A MAXIMUM OF 6-INCH LIFTS. COMPACT BEDDING TO 95 TO 98% STANDARD PROCTOR. TAKE CARE TO FULLY COMPACT SOIL WITHIN THE PIPE HAUNCH ZONE IN ACCORDANCE WITH SC-M-714 AND TRENCHING STANDARD FOUNDATION FILES PER SCDOT 714-105-00 & 714-505-00.
- BACKFILL AROUND AND ABOVE PIPE WILL BE SELECT STRUCTURAL BACKFILL IN ACCORDANCE WITH SCDOT REQUIREMENTS AS NOTE IN THE DETAIL ABOVE AT LIFTS OF 6-INCH AND COMPACTED TO 95 TO 98% STANDARD PROCTOR FULL DEPTH OF FILL.

REFERENCES

GENERAL NOTES

- ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
- INSTALL ADVANCE WARNING SIGNS INDICATED ON PORTABLE SIGN SUPPORTS NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE OR ROADWAYS WITH FAITH SHOULDER, AND NO LESS THAN 4 FEET FROM THE NEAR EDGE OF THE SIGN TO THE NEAR EDGE OF AN ADJACENT TRAVEL LANE ON ROADWAYS WITH PAVED SHOULDER. WHEN CURB & GUTTER IS PRESENT, INSTALL THE SIGN NO LESS THAN 2 FEET FROM THE NEAR EDGE OF THE SIGN TO THE FACE OF THE CURB.
- SIGNAGES INDICATED ARE FOR NORMAL CONDITIONS. ADJUSTMENTS MAY BE REQUIRED DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENTS OR OTHER SIGHT DISTANCE RESTRICTIONS.
- ALL SIGNS MOUNTED ON PORTABLE SIGN SUPPORTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 5 FEET FROM THE GROUND TO THE BOTTOM OF THE SIGN. ALL SIGNS MOUNTED ON GROUND MOUNTED U-CHEMEL POSTS OR SQUARE STEEL TUBE POSTS SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET FROM THE GRADE ELEVATION OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE TO THE BOTTOM OF THE SIGN UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. ADJUST ALL SIGNS STRAIGHT AND LEVEL AND WITH THE FACE OF THE SIGN PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- REFLECTORIZED ORANGE ADVANCE WARNING SIGNS AND ANY ORANGE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A FLUORESCENT ORANGE COLORED PRISMATIC RETROREFLECTIVE SHEETING. REFLECTORIZED WHITE REGULATORY SIGNS AND ANY WHITE AREAS OF A MULTI-COLORED ADVANCE WARNING SIGN WITH A WHITE COLORED PRISMATIC RETROREFLECTIVE SHEETING.
- ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH ALL NCHRP REPORT 350 REQUIREMENTS AND SHALL REQUIRE APPROVAL BY THE DEPARTMENT. ONLY THOSE TRAFFIC CONTROL DEVICES LISTED ON THE "APPROVED PRODUCTS LIST FOR TRAFFIC CONTROL DEVICES IN WORK ZONES" ARE CONSIDERED ACCEPTABLE FOR USE. THIS LIST MAY BE ACCESSED ON THE DEPARTMENT'S WEB SITE AT: www.scdot.org
- THE CONTRACTOR SHALL PROVIDE AND UTILIZE ANY SPECIAL SIGN MOUNTING ASSEMBLIES AND HARDWARE THAT MAY BE NECESSARY FOR INSTALLING AND MOUNTING SIGNS IN AREAS OF CONCRETE MEDIAN BARRIER, BRIDGE PARAPET WALLS OR DOUBLE FACED GUARDRAIL.
- THE PRIMARY TRAFFIC CONTROL DEVICES UTILIZED FOR DAYTIME SHOULDER CLOSURES ARE 36" CONES. THE PRIMARY TRAFFIC CONTROL DEVICES UTILIZED FOR NIGHTTIME SHOULDER CLOSURES ARE PORTABLE PLASTIC DRUMS. DURING DAYTIME SHOULDER CLOSURES, 42" OVERSIZED CONES MAY BE SUBSTITUTED FOR 36" CONES. DURING NIGHTTIME SHOULDER CLOSURES, 42" OVERSIZED CONES ARE PROHIBITED FOR USE. IF THE TRAFFIC CONTROL SETUP EXTENDS INTO THE HOURS OF DARKNESS, REPLACE ALL CONES, 36" OR 42" OVERSIZED, WITH PORTABLE PLASTIC DRUMS.
- THE 36" CONES UTILIZED DURING DAYTIME HOURS ARE NOT REQUIRED TO BE REFLECTORIZED. REFLECTORIZED 42" OVERSIZED CONES UTILIZED DURING DAYTIME SHOULDER CLOSURES WITH TYPE II FLEXIBLE PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT. REFLECTORIZE ALL PORTABLE PLASTIC DRUMS WITH TYPE III FLEXIBLE PRISMATIC RETROREFLECTIVE SHEETING UNLESS OTHERWISE DIRECTED BY THE DEPARTMENT.
- THE DEPARTMENT PROHIBITS CONDUCTING WORK ON PRIMARY AND SECONDARY ROUTES WITHIN 8' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE UNDER A SHOULDER CLOSURE. ALL WORK THAT MAY REQUIRE THE PRESENCE OF EQUIPMENT, PERSONNEL, MATERIALS OR WORK VEHICLES WITHIN 8' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE SHALL BE CONDUCTED UNDER A LANE CLOSURE.
- CASE I: WHENEVER ANY PORTION OF THE SHOULDER AREA WITHIN 15' BUT NOT CLOSER THAN 7' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE MUST BE OCCUPIED BY EQUIPMENT, PERSONNEL, MATERIALS OR WORK VEHICLES, INSTALL AND MAINTAIN THE SIGNING, INSTALL AND MAINTAIN THE SIGNING AND TRAFFIC CONTROL DEVICES AS ILLUSTRATED.
- CASE II: WHENEVER THE WORK IS CONDUCTED BEYOND 15' BUT WITHIN 30' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE, INCLUDING THE PRESENCE OF EQUIPMENT, PERSONNEL, MATERIALS OR WORK VEHICLES, INSTALL AND MAINTAIN THE SIGNING AND TRAFFIC CONTROL AS ILLUSTRATED.
- CONDUCT THE WORK IN SUCH A MANNER THAT WILL NOT REQUIRE ENCROACHMENT OF TRAFFIC CONTROL DEVICES, EQUIPMENT, PERSONNEL, MATERIALS OR ANY WORK RELATED VEHICLES WITHIN 7' OF THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.
- PLACE THE TRUCK MOUNTED ATTENUATOR AT A LOCATION 100' IN ADVANCE OF THE WORK ACTIVITY AND NO CLOSER THAN 1' FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE. FOR A CASE I SCENARIO IN THE RIGHT SHOULDER AREA, ADJUST THE TAPER AS NECESSARY TO FIT THE WIDTH OF THE SHOULDER WHILE MAINTAINING THE REQUIRED 250' TAPER LENGTH.
- IF WORK IS BEING CONDUCTED SIMULTANEOUSLY AT TWO DIFFERENT LOCATIONS BY THE SAME TIME UNDER CASE I SHOULDER CLOSURES, SEPARATE THE TWO LOCATIONS BY NO LESS THAN 1 MILE FROM THE END OF THE FIRST CASE I CLOSURE TO A MOTION BELL ENCOUNTER TO THE BEGINNING OF THE TAPER OF THE SECOND CASE I CLOSURE. A MINIMUM SEPARATION DISTANCE OF ONE MILE IS RECOMMENDED BETWEEN SHOULDER CLOSURES WHEN ONE OR BOTH SHOULDER CLOSURES IS A CASE I CLOSURE.
- THE DEPARTMENT PROHIBITS THE RIGHT TO RESTRICT WORK OPERATIONS AND/OR WITHHOLD THE WORK FROM PROGRESS IF THE TRAFFIC CONTROL DEVICES, THE SPECIAL INSIGNS, THE STANDARD DRAWINGS, THE PLANS AND/OR THE ENGINEER.
- THIS TYPICAL TRAFFIC CONTROL SETUP APPLIES TO THE INSTALLATION OF SHOULDER CLOSURES IN THE RIGHT SHOULDER AREAS OF PRIMARY AND SECONDARY ROADWAYS.

WORK ZONE TRAFFIC CONTROL ENGINEER
SOUTH CAROLINA PROFESSIONAL ENGINEER
NO. 24242
WILLIE E. MCCONNELL, III
SIGNATURE: *W. McConnell*
DATE: 8/2/12

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING
RIGHT SHOULDER CLOSURE (CASE I / CASE II) PRIMARY ROUTES
610-205-00
EFFECTIVE LETTING DATE: 5/18/13 THIS DRAWING IS NOT TO SCALE

GENERAL NOTES

- USE 36" CONES AND SIGNING AS ILLUSTRATED. CONES SHOULD EXTEND THROUGH THE WORK AREA AS NECESSARY.
- IF WORK IS BEING CONDUCTED IN THE SHOULDER AREA, USE PORTABLE TRUCK MOUNTED ATTENUATOR. THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE 100 FEET IN ADVANCE OF THE WORK ACTIVITY AND NO CLOSER THAN 1' FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE. THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE 100 FEET IN ADVANCE OF THE WORK AREA AND NO CLOSER THAN 1' FROM THE NEAR EDGE OF THE ADJACENT TRAVEL LANE.
- ADVANCE WARNING ARROW PANELS SHALL BE 48" x 96" WITH A MINIMUM LEGIBILITY DISTANCE OF 1 MILE. PLACEMENT OF AN ADVANCE WARNING ARROW PANEL MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. ALL ADVANCE WARNING ARROW PANELS SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
- WHEN AN ADVANCE WARNING ARROW PANEL IS REQUIRED TO OPERATE IN THE CAUTION MODE, THE ADVANCE WARNING ARROW PANEL SHALL DISPLAY THE "FLYER CORNER" CAUTION MODE, WITH ONE LAMP IN EACH CORNER. DISPLAY OF ANY OTHER TYPE OF LIGHTER MODE OTHER THAN THE "FLYER CORNER" CAUTION MODE SUCH AS THE "FLASHING BAY" OR THE "ALTERNATING DIAMOND" CAUTION MODES ARE UNACCEPTABLE AND PROHIBITED.

LEGEND
36" TRAFFIC CONES

CASE I

CASE II

PORTABLE TRUCK MOUNTED ATTENUATOR

ADVANCE WARNING ARROW PANEL

LEGEND
36" TRAFFIC CONES

REVISION DATE

NO.	DESCRIPTION	DATE

APPROVALS

ENGINEER: ISAY
DESIGNER: JAM
TECHNICIAN: JAH
CHECKED BY: ISAY
APPROVED BY: ISAY

ALLIANCE CONSULTING ENGINEERS, INC.
Alliance Consulting Engineers, Inc.
Engineers, Inc.
No. 26689
No. C02854

SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
REGISTERED PROFESSIONAL ENGINEER
No. 26689
No. C02854
BENJAMIN S. WILSON

DATE: 8/2/12
SIGNATURE: *Benjamin Wilson*

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Engineers, Inc.
Post Office Box 8147 Columbia, South Carolina 29202-8147
Phone: (803) 779-2078 Fax: (803) 779-2079

PROJECT
C-FUND ROADWAY PAVING OF
#1900-LF RUPERT COURTNEY
LANE OFF US HIGHWAY 601 IN
THE TOWN OF PAGELAND IN
CHESTERFIELD COUNTY,
SOUTH CAROLINA

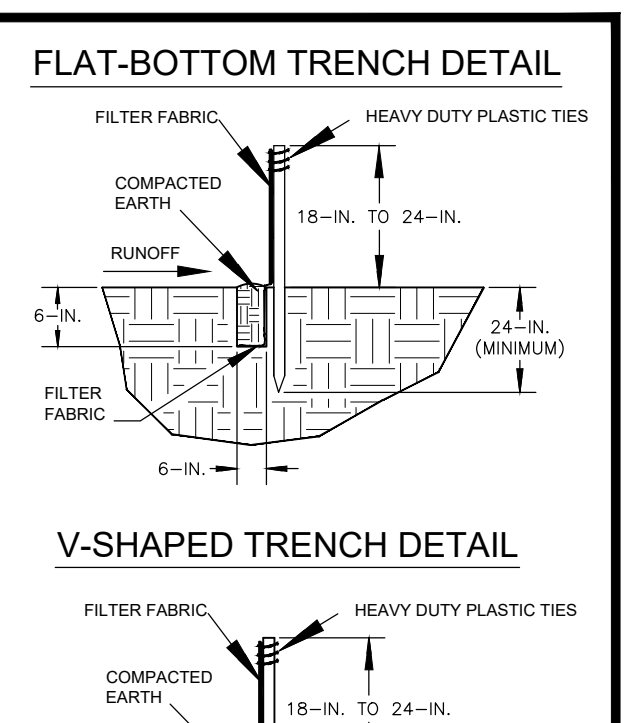
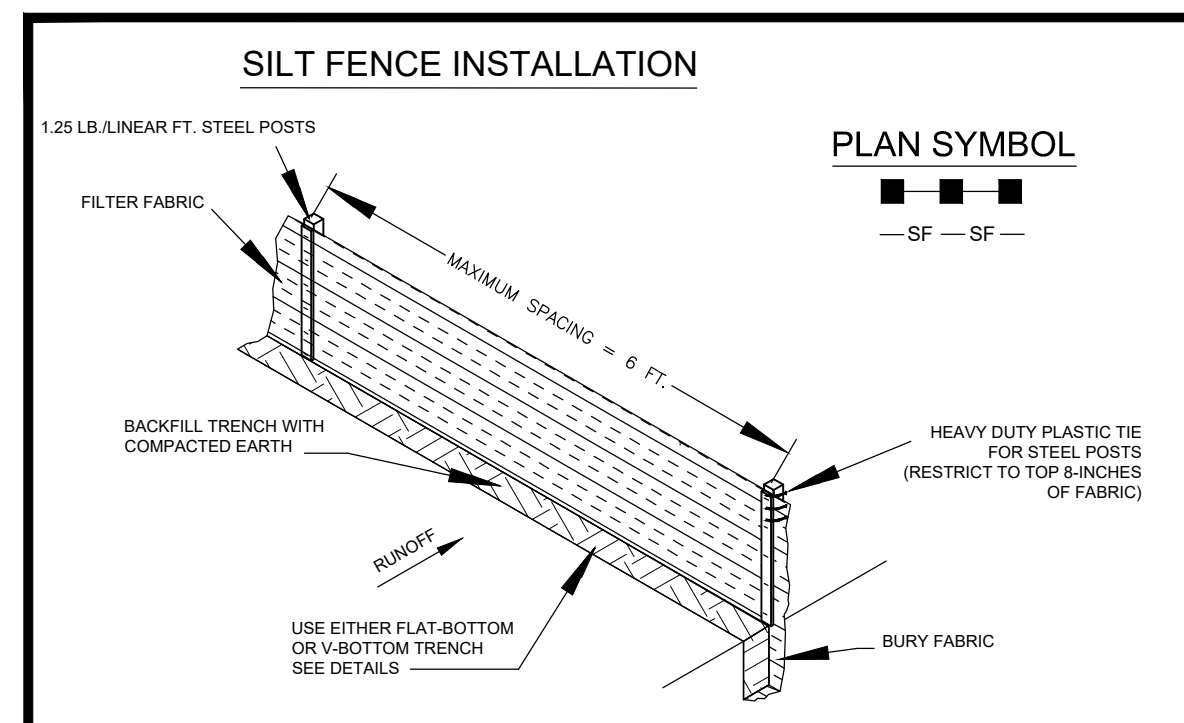
DATE: FEBRUARY 2014
SCALE: AS SHOWN

FILE NAME:
24109-0013
BASE.dwg

SHEET
C6.0

PROJECT NO.
24109-0013

DWG NO. 01,1673-D29



SILT FENCE - GENERAL NOTES

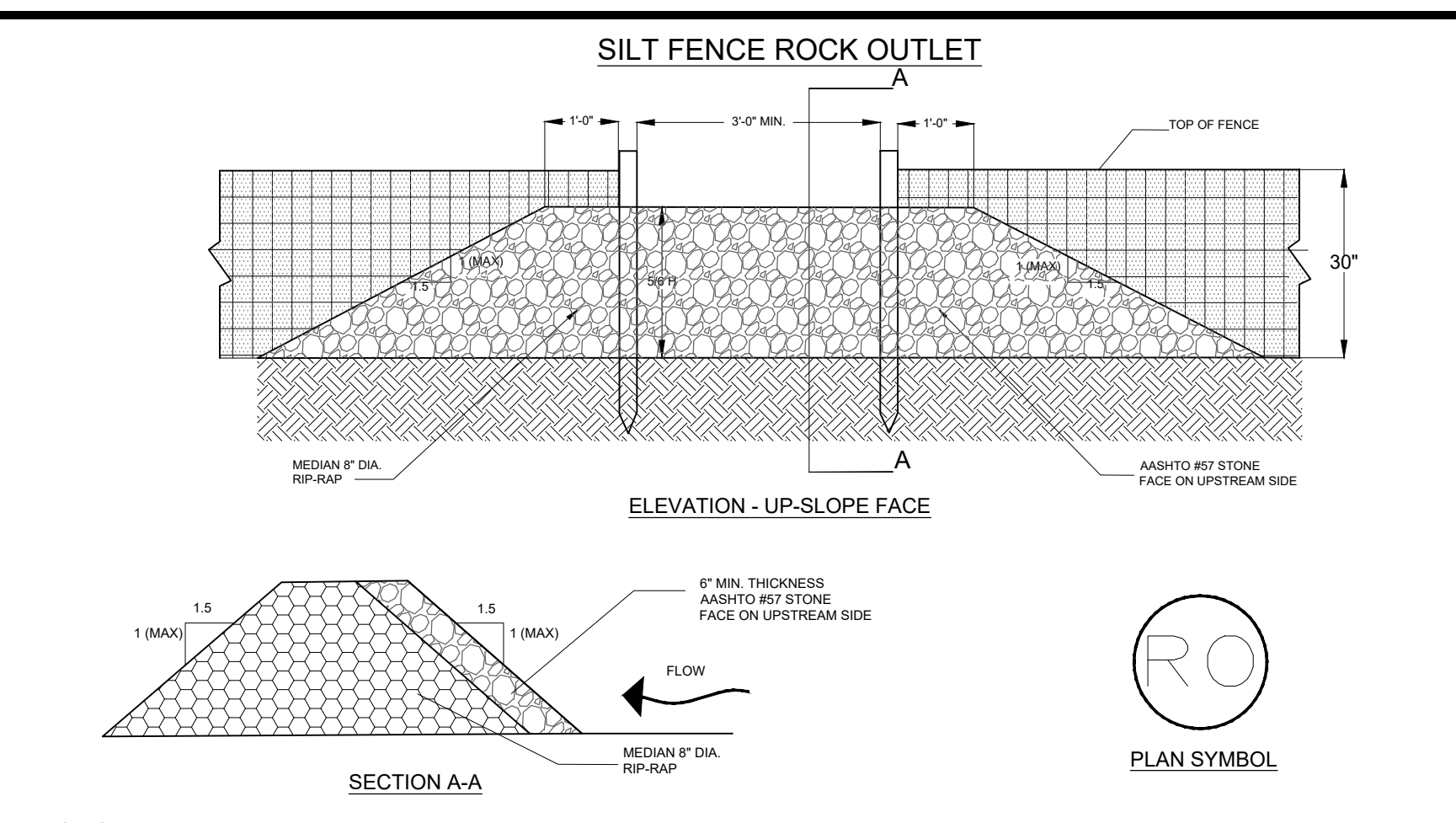
- Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- Maximum sheet or overland flow path length to the silt fence shall be 100-feet.
- Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- Silt fence joints, when necessary, shall be completed by one of the following options:
 - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot minimum overlap.
 - Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties, or,
 - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy-duty plastic ties that are evenly spaced within the top 8-inches of the fabric.
- Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
- Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE



SILT FENCE ROCK OUTLET

STANDARD DRAWING NO. SC-14 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

NOTES:

- WASHED STONE (#57) TO BE REMOVED AND REPLACED ONCE IT BECOMES CLOGGED WITH SEDIMENT.
- SEDIMENT TO BE REMOVED WHEN ACCUMULATIONS REACH 1/3 HEIGHT OF SILT FENCE
- THE KEY TO FUNCTIONAL ROCK OUTLETS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Control

SILT FENCE ROCK OUTLET

STANDARD DRAWING NO. SC-14 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE - POST REQUIREMENTS

- Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
 - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
 - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches.
 - Weight 1.25 pounds per foot ($\pm 8\%$)
- Posts shall be equipped with projections to aid in fastening of filter fabric.
- Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 1/2 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
- Install posts to a minimum of 24-inches. A minimum height of 1- to 2- inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
- Post spacing shall be at a maximum of 6-feet on center.

SILT FENCE - INSPECTION & MAINTENANCE

- The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence, as necessary.
- Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
- Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.
- In areas of protection to the existing wetlands, a double row of silt fence will be installed at the edge of the wetland buffer and the rows of silt fence will be a minimum of 3-feet where grading is tight or 4-feet in areas where spacing allows.

SILT FENCE - FABRIC REQUIREMENTS

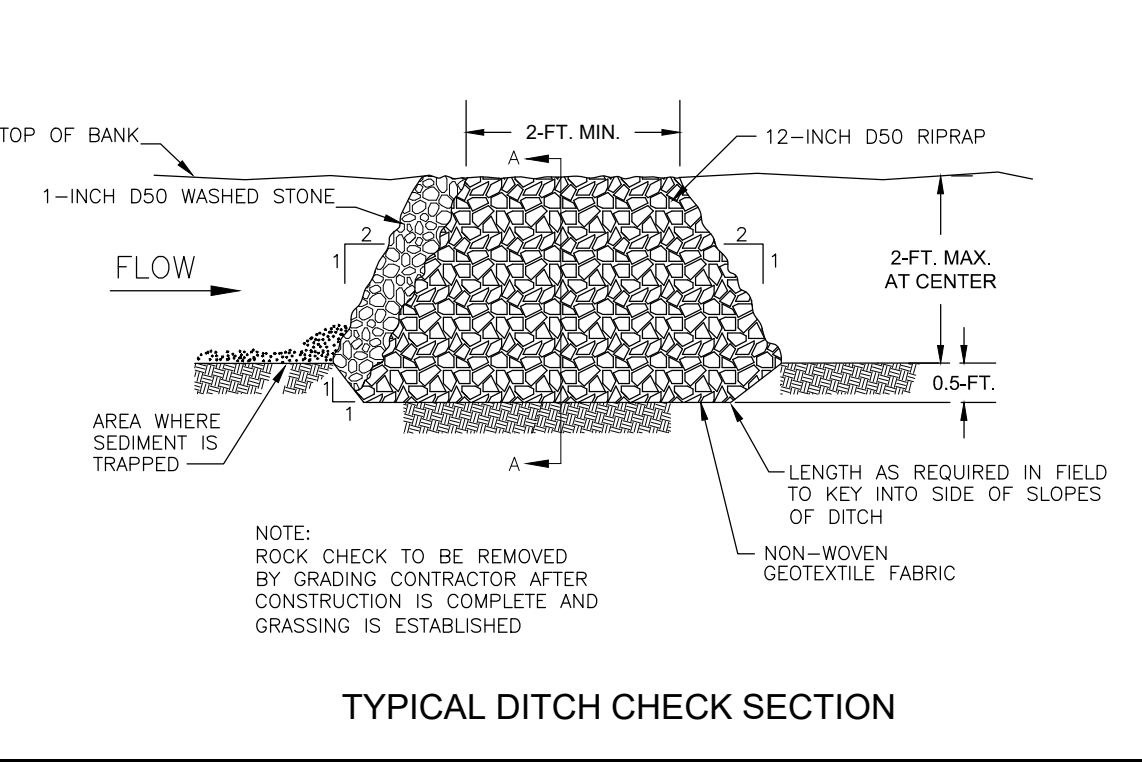
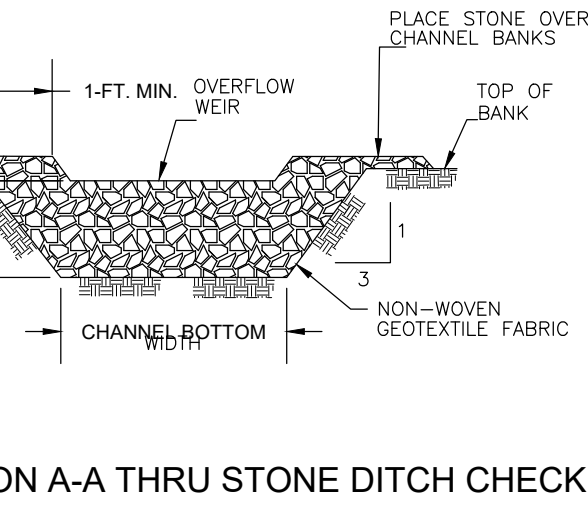
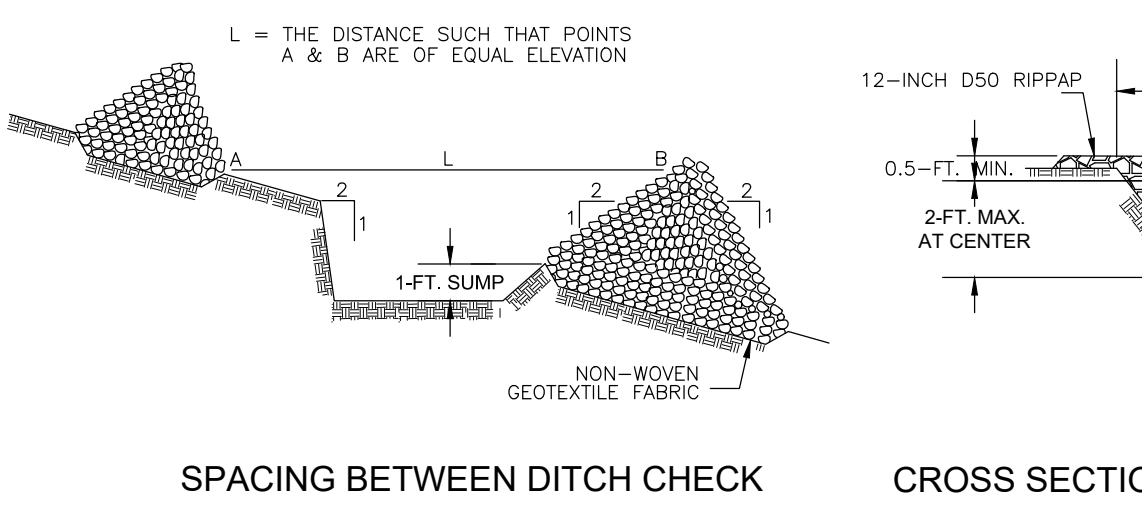
- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
 - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
 - Free of any treatment or coating which might adversely affect its physical properties after installation;
 - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
 - Have a minimum width of 36-inches.
- Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
- 12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
- Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
- Filter Fabric shall be installed at a minimum of 24-inches above the ground.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC-03 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

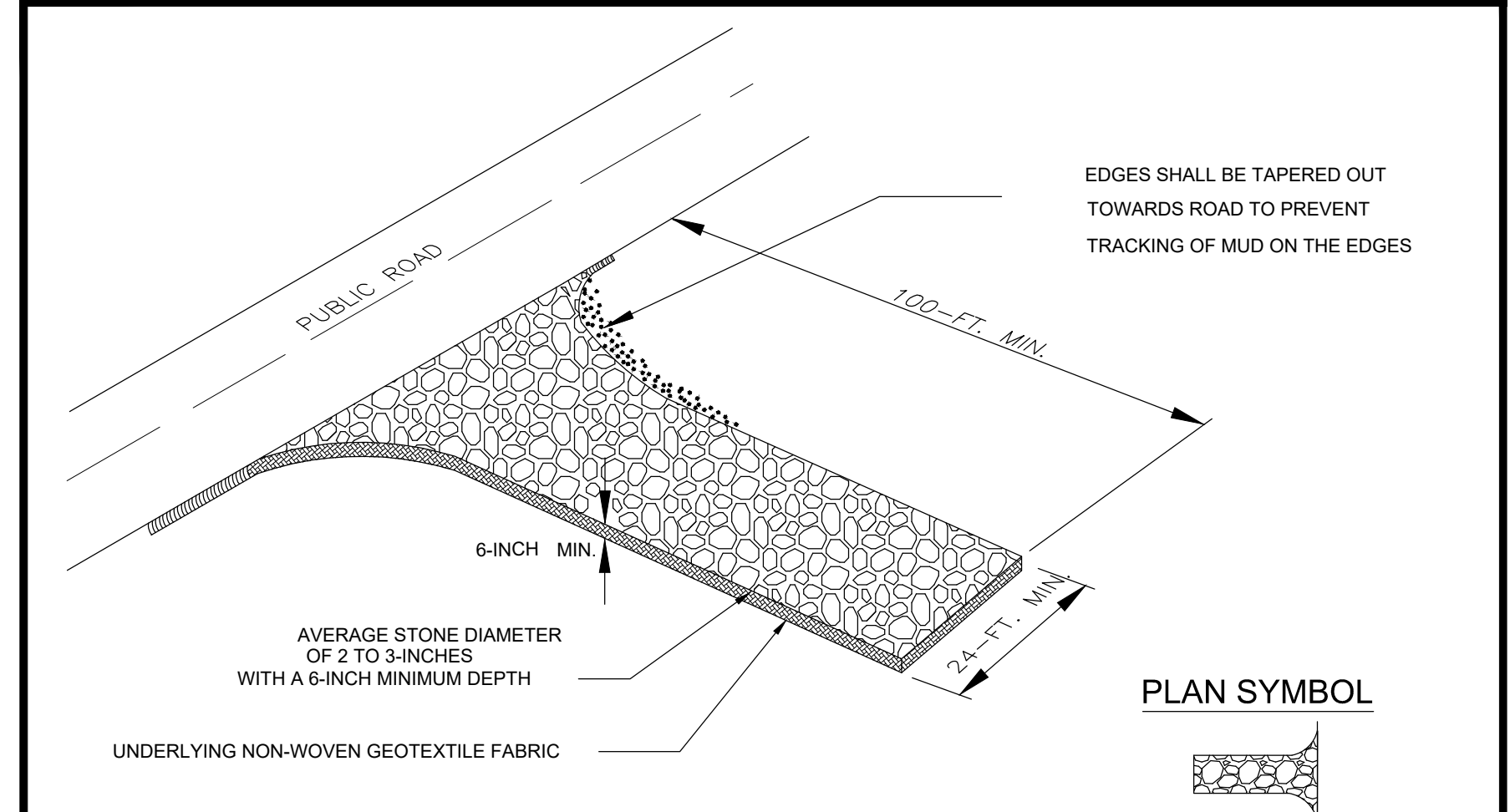


South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 1 of 2

APPROVED BY: [Signature] DATE: AUGUST, 2005



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE - GENERAL NOTES

- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
- Install a non-woven geotextile fabric prior to placing any stone.
- Install a culvert pipe across the entrance when needed to provide positive drainage.
- The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
- Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
- The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
- Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
- Limestone may not be used for the stone pad.

CONSTR. ENTRANCE - INSPECTION & MAINTENANCE

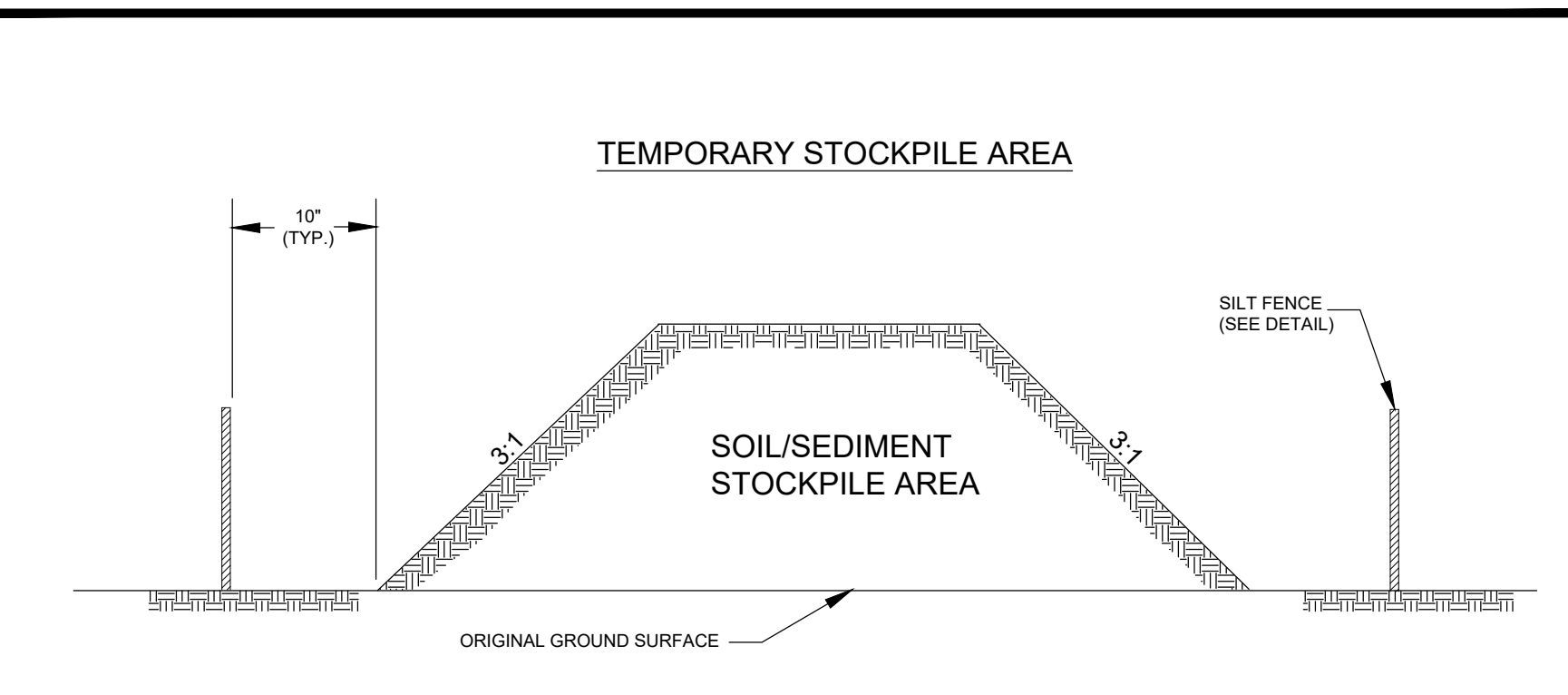
- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during periods of wet weather.
- Reshape the stone pad as necessary for drainage and runoff control.
- Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
- Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
- During maintenance activities, any broken pavement should be repaired immediately.
- Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE



TEMPORARY STOCKPILE AREA

STANDARD DRAWING NO. SC-15 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

NOTES:

- SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
- IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
- SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
- THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Control

TEMPORARY STOCKPILE

STANDARD DRAWING NO. SC-15 PAGE 1 of 1

NOT TO SCALE FEBRUARY 2014 DATE

ROCK DITCH CHECK - GENERAL NOTES

- Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
- Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
- A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
- The body of the rock ditch check shall be composed of 12-inch D50 washed stone. The upstream face may be composed of 1-inch D50 washed stone.
- Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
- Rock Ditch Checks should have a minimum top flow length of 2-feet.
- Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
- The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
- The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

ROCK DITCH CHECK - INSPECTION & MAINTENANCE

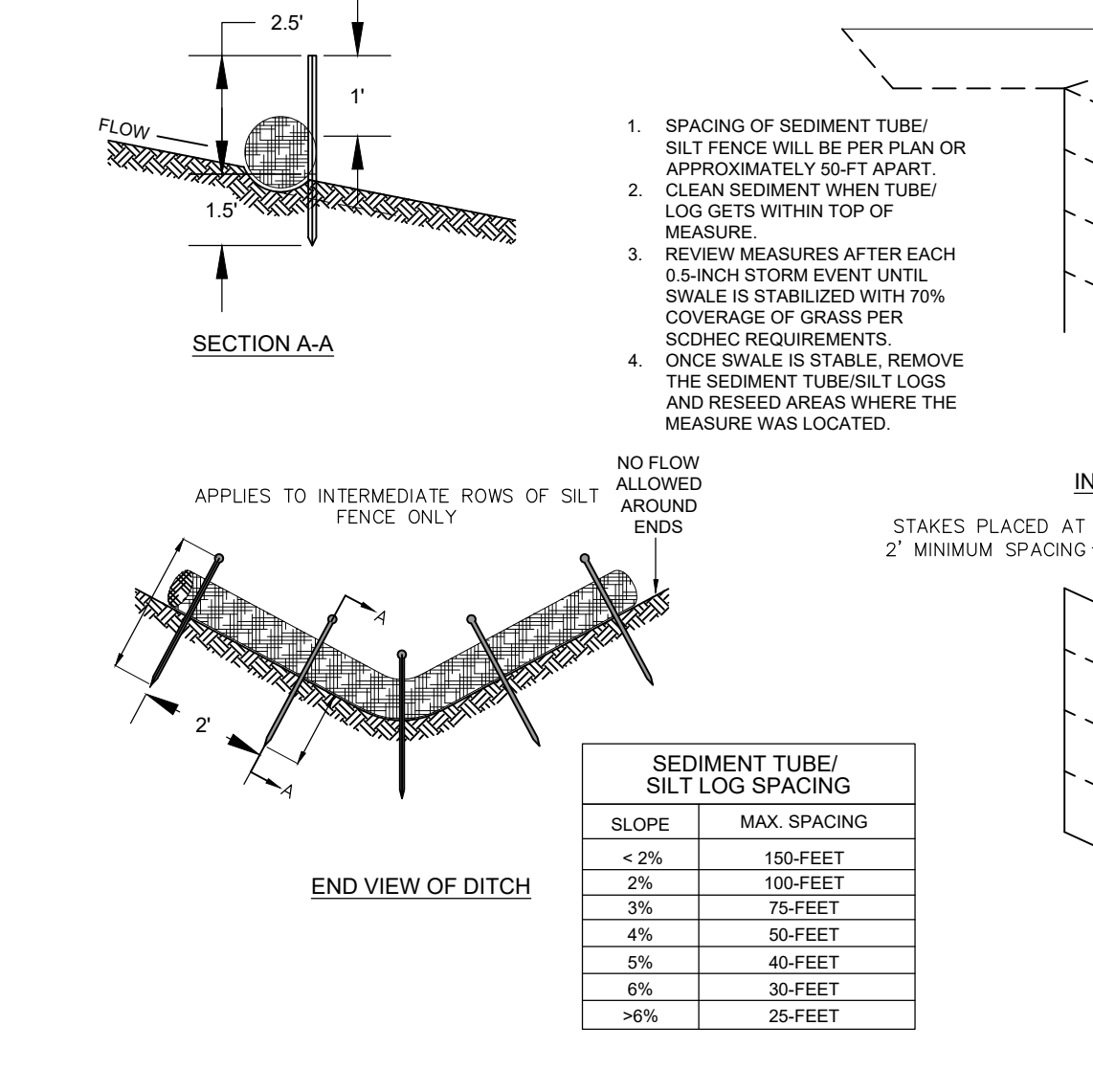
- The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
- Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
- Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
- Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
- Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
- Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
- In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
- After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE



SEDIMENT TUBE/SILT LOG DETAIL

N.T.S.

REVISION DATE

APPROVALS	DATE
ENGINEER	
DESIGNER	
TELETYPE	
CHECKED BY	
APPROVED	

DATE: 2/18/14

SIGNATURE: [Signature]

ALLIANCE CONSULTING ENGINEERS

Engineers, Inc.

Post Office Box 8147 Columbia, South Carolina 29202-8147

Phone: (803) 779-2078 Fax: (803) 779-2079

EROSION AND SEDIMENT CONTROL DETAILS (SHEET 1 OF 2)

SCALE: AS SHOWN

DATE: FEBRUARY 2014

SOUTH CAROLINA

C-FUND ROADWAY PAVING OF 1900-LF RUPERT COURTESY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGELAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

FILE NAME: C7.0.DWG

REFERENCE FILE: 24109-0013 BASE.dwg

PROJECT NO. 24109-0013

SHEET C7.0

DWG NO. 01,1673-D29

May 28, 2024 - 12:16:59 PM S:\Projects\24109-0013_C-Fund Paving Rupert Courtesy In Chesterfield County\Construction Plans\C-7.0 ESC Detail Sheets.dwg

Sediment and Erosion Control Notes

Standard Notes:

- If necessary, slopes, which exceed eight (8) vertical feet should be stabilized with synthetic or vegetative mats, in addition to hydroseeding. It may be necessary to install temporary slope drains during construction. Temporary berms may be needed until the slope is brought to grade.
- Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than fourteen (14) days after work has ceased, except as stated below.
 - When stabilization by the 14th day is precluded by snow cover or frozen ground conditions stabilization measures must be initiated as soon as practicable.
 - Where construction activity on a portion of the Site is temporarily ceased, and earth-disturbing activities will be resumed within fourteen (14) days, temporary stabilization measures do not have to be initiated on that portion of the Site.
- All sediment and erosion control devices shall be inspected every seven (7) days. If site inspections identify BMPs that are damaged or are not operating effectively, maintenance must be performed as soon as practical or as reasonably possible and before the next storm event whenever practicable. After construction activities begin, inspections must be conducted at a minimum of at least once every calendar week, with no time period between inspections exceeding 9 days, and must be conducted until final stabilization is reached on all areas of the construction site. It is recommended that BMPs be assessed by the contractor within 24 hours of the end of a storm event of 1.0 inch or greater, as well as during the first rain event after the initiation of construction activities, after the installation of BMPs.
- Provide silt fence and/or other control devices, as may be required, to control soil erosion during utility construction. All disturbed areas shall be cleaned, graded, and stabilized with grassing immediately after the utility installation. Fill, cover, and temporary seeding at the end of each day are recommended. If water is encountered while trenching, the water should be filtered to remove any sediments before being pumped back into any waters of the State.
- All erosion control devices shall be properly maintained during all phases of construction until the completion of all construction activities and all disturbed areas have been stabilized. Additional control devices may be required during construction in order to control erosion and/or offsite sedimentation. All temporary control devices shall be removed once construction is complete and the site is stabilized.
- The contractor must take necessary action to minimize the tracking of mud onto paved roadway(s) from construction areas and the generation of dust. The contractor shall daily remove mud/soil from pavement, as may be required.
- Residential subdivisions require erosion control features for infrastructure as well as for individual lot construction. Individual property owners shall follow these plans during construction or obtain approval of an individual plan in accordance with S.C. Reg. 72-300 et seq. and SCR10000.
- Temporary diversion berms and/or ditches will be provided as needed during construction to protect work areas from upslope runoff and/or to divert sediment-laden water to appropriate traps or stable outlets.
- All waters of the State (WoS), including wetlands, are to be flagged or otherwise clearly marked in the field. A double row of silt fence is to be installed in all areas where a 50-foot buffer can't be maintained between the disturbed area and all WoS. A 10-foot buffer should be maintained between the last row of silt fence and all WoS.
- Litter, construction debris, oils, fuels, and building products with significant potential for impact (such as stockpiles of freshly treated lumber) and construction chemicals that could be exposed to storm water must be prevented from becoming a pollutant source in storm water discharges.

Additional Notes:

- Install permanent vegetative cover and the long-term erosion protection measures or structures as soon as practical in the development process.
- Provide for handling the increased runoff caused by changed soil and surface conditions. Use effective means to conserve existing on-site soil including the use of diversion ditches, graded waterways and storm sewers.
- Place silt fence barriers at locations shown on plan. Silt barriers shall be maintained in place and in good condition until ground cover is established.
- All disturbed areas not paved shall be grassed. Use temporary plant cover, mulching, and/or structures to control runoff and protect areas subject to erosion during construction.
- Sediment ponds are to be excavated to original grades upon the accumulation of 1.5' on sediment stake placed at outlet.
- Provide a temporary stone splash pad at all fire hydrants or other points if discharge during testing of the water distribution system.
- Should Permanent Grassing requirements conflict with Landscape Plans, Landscape Plans supercede Permanent Grassing requirements.

Grassing Specifications:

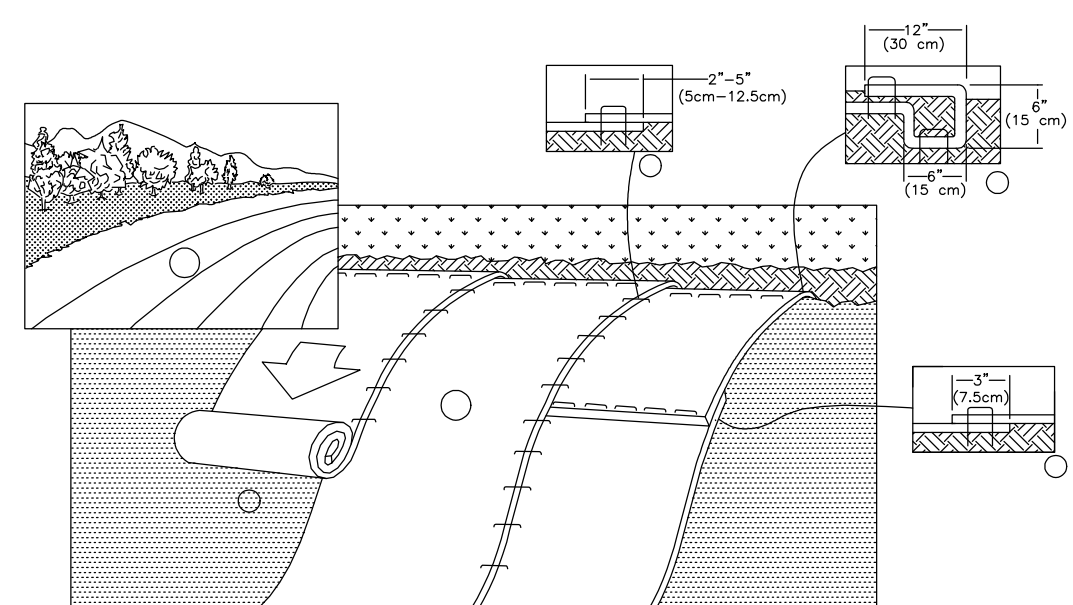
- All seed mixtures for the various seeding schedules shall be weighed and mixed to the proper proportions in the presence of the owner or the owner's representative.

PERMANENT SEEDING		
Maintained Turf (High Profile Lawn/Landscaped Areas)		
Planting Dates	Variety	Application Rate
April 1 - September 15	Bermuda Triangle Blend by Pennington Seed, Inc.	125 LBS/ACRE
Slopes 4H:1V or Greater		
Planting Dates	Variety	Application Rate
April 1 - September 15	Slopemaster Spring/Summer Mix by Pennington Seeding, Inc.	75 LBS/ACRE
	Slopemaster Spring/Summer Mix Composition:	
	30% Hulled Sahara Bermudagrass (Cynodon dactylon)	
	15% Durana White Clover (Trifolium repens)	
	10% Brown Top Millet (Echinochloa ramosa)	
	15% Weeping Lovegrass (Eragrostis curvula (Schrad.) Nees)	
September 15 - March 31	Slopemaster Fall/Winter Mix by Pennington Seed, Inc.	100 LBS/ACRE
	Slopemaster Fall/Winter Mix Composition:	
	25% Unhulled Sericea Lespedeza (Lespedeza cuneata)	
	20% Unhulled Sahara Bermudagrass (Cynodon dactylon)	
	20% Greystone Tall Fescue (Schedonorus arundinaceus)	
	10% Durana White Clover (Trifolium repens)	
	10% Rye Grain (Lolium multiflorum)	
	5% Weeping Lovegrass (Eragrostis curvula (Schrad.) Nees)	
Slope 4H:1V or Less		
Planting Dates	Variety	Application Rate
April 1 - September 15	Hulled Sahara Bermudagrass	75 LBS/ACRE
September 15 - March 31	Unhulled Sahara Bermudagrass	100 LBS/ACRE

- Double seed all grassed swales, water ways, and embankments from top of bank to bottom of bank on all bank slopes less than 3:1.

Temporary Seeding - Update

Species	lbs./ac	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Browstop Miller (Alone)	40												
Browstop Miller (Mix)	10												
Rye Grass (Alone)	56												
Rye Grass (Mix)	10												
Rye Grass (Alone)	50												
Rye Grass (Mix)	8												
For Steep Slopes/Cut Slopes													
Weeping Lovegrass (Alone)	4												
Weeping Lovegrass (Mix)	2												



- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
- ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
- CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

EROSION CONTROL BLANKET INSPECTION AND MAINTENANCE

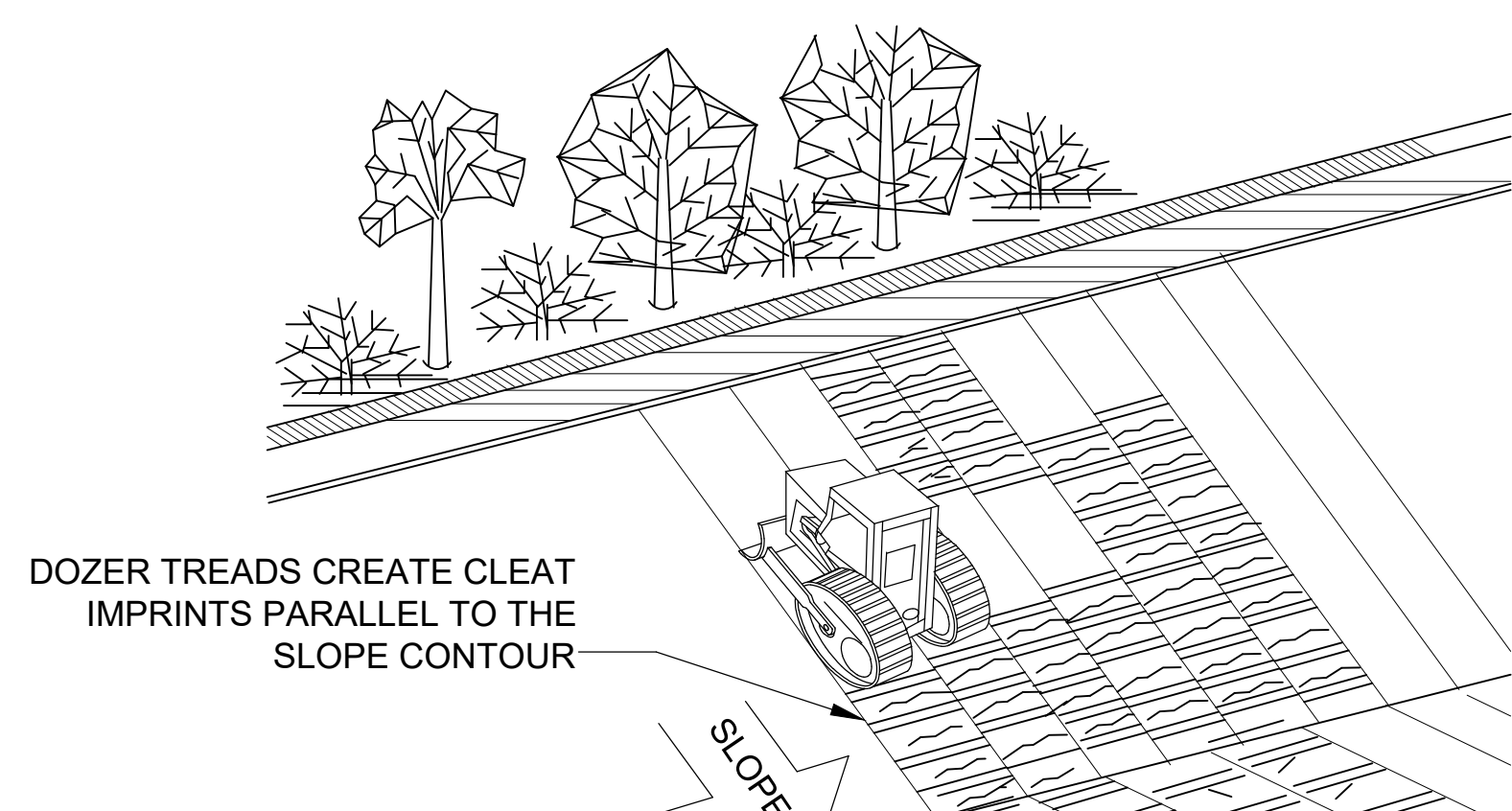
Inspect areas protected by ECBs for dislocation or failure every 7 calendar days.

Conduct regular inspections until grasses are firmly established.

Adhere to the pinning or stapling pattern as shown on the Manufacturer's installation sheet. If there is evidence that the ECB is not securely fastened to the soil, require extra pins or staples to inhibit the ECB from becoming dislodged.

If washout or breakage occurs, repair all damaged areas immediately by restoring the soil on slopes or channels to its finished grade, re-apply fertilizer and seed, and replacing the appropriate ECB material as needed.

SLOPE INSTALLATION
NOT TO SCALE



DOZER TRENDS CREATE CLEAT IMPRESSIONS PARALLEL TO THE SLOPE CONTOUR

SHOULD BE SEEDED AND STABILIZED IMMEDIATELY.

TRACKING
(SCDHEC DETAIL EC-01)
NOT TO SCALE

MAINTENANCE SCHEDULE					
CONTROL ITEM	INSPECTION FREQUENCY	MAINTENANCE ACTIVITY	CONTROL ITEM	INSPECTION FREQUENCY	MAINTENANCE ACTIVITY
SILT FENCE	-AFTER EACH STORM EVENT -WHEN A FENCE SECTION IS TOPPED OR UNDERMINED -WEEKLY	-REPAIR FENCE TO ORIGINAL SPECIFICATIONS -ANY FENCE TOPPED OR UNDERMINED MUST BE REPLACED WITH A ROCK FILTER OUTLET -ADHERE TO MANUFACTURER'S RECOMMENDATIONS FOR REPLACING FENCE -REMOVE DEPOSITS WHEN ACCUMULATION REACHES 1/3 ABOVE GROUND HEIGHT OF FENCE	STORM DRAIN INLET PROTECTION	-AFTER EACH STORM EVENT -WEEKLY	-REPAIR TRAP TO ORIGINAL DIMENSIONS -REMOVE ALL SEDIMENT FROM TRAP
CONSTRUCTION EXIT	-AFTER EACH STORM EVENT -DAILY	-REPAIR TO ORIGINAL SPECIFICATIONS -ADD ASPHALT #1 ROCK AS NECESSARY -ENSURE NO SEDIMENT IS DEPOSITED ON PUBLIC ROADWAYS. IF SO, REMOVE AND PLACE SEDIMENT IN DESIGNATED DISPOSAL AREA -MAINTAIN STOCKPILE OF ADDITIONAL ROCK FOR REPLENISHMENT. STOCKPILE HEIGHT MUST NOE EXCEED 35' NOR A 2:1 SLOPE	ROCK CHECK DAMS	-AFTER EACH STORM EVENT -WEEKLY	-REPAIR TRAP TO ORIGINAL DIMENSIONS -REMOVE ALL SEDIMENT FROM FILTER ROCK
			TEMPORARY/PERMANENT GRASSING	-AFTER EACH STORM EVENT -WEEKLY	-ENSURE A MIN. UNIFORM RATE OF COVERAGE OF 70% IS PRESENT -REGRADE AND RE-SEED ALL EROSION GULCHES -REMOVE ACCUMULATED SEDIMENT DEPOSITS AND RE-SEED -REPLACE/ADD MULCH WHERE NECESSARY

DESCRIPTION:

SEDIMENT TUBES ARE ELONGATED TUBES OF COMPACTED GEOTEXTILES, CURLED EXCELOR WOOD, NATURAL COCONUT FIBER, OR HARDWOOD MULCH, STRAW, PINE NEEDLES, AND LEAF MULCH-FILLED SEDIMENT TUBES ARE NOT PERMITTED UNDER THIS SPECIFICATION.
WHEN AND WHERE TO USE IT:
INSTALL SEDIMENT TUBES ALONG CONTOURS, IN DRAINAGE CONVEYANCE SWALES, AND AROUND INLETS TO HELP REDUCE THE EFFECTS OF SOIL EROSION BY ENERGY DISSIPATION.

MATERIALS:

- SEDIMENT TUBES FOR DITCH CHECKS AND TYPE A INLET STRUCTURE FILTERS EXHIBIT THE FOLLOWING PROPERTIES:
 - PRODUCED BY A MANUFACTURER EXPERIENCED IN SEDIMENT TUBE MANUFACTURING
 - COMPOSED OF COMPACTED GEOTEXTILES, CURLED EXCELOR WOOD, NATURAL COCONUT FIBERS, HARDWOOD MULCH, OR A MIX OF THESE MATERIALS ENCLOSED BY A FLEXIBLE NETTING MATERIAL
 - UTILIZES ULTRAVIOLET NETTING THAT CONSISTS OF SEAMLESS, HIGH-DENSITY POLYETHYLENE. PHOTODEGRADABLE MATERIALS TREATED WITH ULTRAVIOLET STABILIZERS OR SEAMLESS, HIGH-DENSITY POLYETHYLENE, NON-DEGRADABLE MATERIALS
 - DIAMETER RANGING FROM 18-INCHES TO 24-INCHES
 - CURLED EXCELOR WOOD OR NATURAL COCONUT ROLLED EROSION CONTROL PRODUCTS (RECPs) THAT ARE ROLLED UP TO CREATE A SEDIMENT TUBE ARE NOT ALLOWED UNDER THIS SPECIFICATION.
 - STRAW, STRAW FIBER, STRAW BALES, PINE NEEDLES, AND LEAF MULCH ARE NOT ALLOWED UNDER THIS SPECIFICATION.

INSTALLATION:

- INSTALL OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS.
- THE MINIMUM DIAMETER SHALL BE 18 INCHES.
- SEDIMENT TUBES SHOULD BE STAKED USING WOODEN STAKES (2-INCH X 2-INCH) OR STEEL POSTS (STANDARD 1/2" OR 1" SECTIONS WITH A MINIMUM WEIGHT OF 1.25 POUNDS PER FOOT). A MINIMUM OF 48-INCHES IN LENGTH, PLACED ON 2-FOOT CENTERS.
- STAKES SHOULD BE INTERTWINED WITH THE OUTER MESH ON THE DOWNSTREAM SIDE AND DRIVEN IN THE GROUND TO A MINIMUM DEPTH OF 1.5 FEET, LEAVING LESS THAN 1 FOOT OF STAKE EXPOSED ABOVE THE SEDIMENT TUBE. ALWAYS REFER TO THE MANUFACTURER'S RECOMMENDATIONS FOR THE STAKING DETAIL.
- INSTALL ALL SEDIMENT TUBES INSURING THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE SEDIMENT TUBE. THE ENDS OF ADJACENT SEDIMENT TUBES SHOULD BE OVERLAPPED 6-INCH TO PREVENT FLOW AND SEDIMENT FROM PASSING THROUGH THE FIELD JOINT. IN NO SITUATIONS SHOULD SEDIMENT TUBES BE STAKED ON TOP OF ONE ANOTHER.
- CONSTRUCT A TRENCH THAT IS A MINIMUM 20% OF THE TUBE DIAMETER TO INSTALL THE TUBE IN. THIS IS TO ENSURE NO GAPS AT THE BOTTOM.
- AVOID DAMAGE TO SEDIMENT TUBES WHILE INSTALLING THEM. IF THE SEDIMENT TUBE BECOMES DAMAGED DURING INSTALLATION, A STAKE SHOULD BE PLACED ON BOTH SIDES OF THE DAMAGED AREA TERMINATING THE TUBE SEGMENT AND A NEW TUBE SEGMENT SHOULD BE INSTALLED.
- SEDIMENT TUBES SHOULD BE INSTALLED IN SWALES OR DRAINAGE DITCHES PERPENDICULAR TO THE FLOW OF WATER
- SEDIMENT TUBES SHOULD CONTINUE UP THE SIDE SLOPES A MINIMUM OF 1-FOOT ABOVE THE DESIGN FLOW DEPTH. SEDIMENT TUBE SHALL BE INSTALLED TO ALLOW FLOW OF WATER OVER THE MIDDLE SECTION PRIOR TO GOING AROUND THE ENDS.
- SEDIMENT TUBES SHOULD BE SPACED ACCORDING TO THE ABOVE LISTED SEDIMENT TUBE SPACING TABLE.
- SEDIMENT TUBE LENGTH SELECTED SHOULD MINIMIZE THE NUMBER OF SEDIMENT TUBES NEEDED TO SPAN THE WIDTH OF THE DRAINAGE CONVEYANCE. IF THE DITCH CHECK LENGTH (PERPENDICULAR TO THE WATER FLOW) IS 15 FEET, THEN ONE 15-FOOT SEDIMENT TUBE IS PREFERRED COMPARED TO TWO OVERLAPPING 10-FOOT SEDIMENT TUBES.
- SEDIMENT TUBES FOR DITCH CHECKS SHOULD REMAIN IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

INSPECTION AND MAINTENANCE:

- CHECK DAMS SHOULD BE INSPECTED EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH STORM THAT PRODUCES 1/2-INCHES OR MORE OF RAIN TO ENSURE CONTINUED EFFECTIVENESS.
- LARGE DEBRIS, TRASH, AND LEAVES SHOULD BE REMOVED.
- IF EROSION CAUSES THE EDGES TO FALL TO A HEIGHT EQUAL TO OR BELOW THE HEIGHT OF THE CENTER, REPAIRS SHOULD BE MADE IMMEDIATELY.
- REMOVE ACCUMULATED SEDIMENT FROM THE UPSTREAM SIDE OF THE SEDIMENT TUBE WHEN THE SEDIMENT HAS REACHED A HEIGHT OF APPROXIMATELY ONE-THIRD OF THE EXPOSED HEIGHT OF THE TUBE (MEASURED AT THE CENTER).
- ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO REMOVING SEDIMENT TUBES.
- SEDIMENT TUBE REMOVAL SHOULD BE COMPLETED ONLY AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETELY STABILIZED. PERMANENT VEGETATION SHOULD REPLACE AREAS FROM WHICH GRAVEL, STONE, SEDIMENT TUBES, OR OTHER MATERIALS HAVE BEEN REMOVED.

Specification Sheet - EroNet® SC150® Erosion Control Blanket

DESCRIPTION	Index Property	Test Method	Typical
The extended term double net erosion control blanket shall be a machine-produced mat of 70% agricultural straw and 30% coconut fiber with a functional longevity of up to 24 months. NOTE: Functional longevity may vary depending upon climatic conditions, soil, geograph-ical location, and elevation. The blanket shall be of consistent thickness with the straw and coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a heavyweight photodegradable polypropylene netting having ultraviolet additives to delay biodegradation at an approximate 1.53 x 0.63 in (1.53 x 15.9 cm) mesh, and on the bottom side with a light-weight photodegradable polypropylene netting with an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh. The blanket shall be woven together on 1.53 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges approximately 2-5 inches (5-12.5 cm) from the edge) as an overlap guide for adjacent mats.	Thickness	ASTM D6525	0.35 in (8.89 mm)
	Resiliency	EECT Guidelines	70%
	Water Absorbency	ASTM D197	342%
	Mass/Unit Area	ASTM D6475	7.47 oz/yd² (247.4 g/m²)
	Swell	EECT Guidelines	30%
	Smolder Resistance	EECT Guidelines	Yes
	Soilless	ASTM D1918	1.15 in (29 mm)
	Light Penetration	ASTM D5857	6.2%
	Tensile Strength - MD	ASTM D6918	362.4 lbs/ft (5.37 kN/m)
	Elongation - MD	ASTM D6918	23.4%
	Tensile Strength - TD	ASTM D6918	136.9 lbs/ft (2.03 kN/m)
	Elongation - TD	ASTM D6918	22.1%
	Biomass Improvement	ASTM D7322	481%
Design Permissible Shear Stress			
	Unvegetated Shear Stress		2.05 psf (96.7 Pa)
	Unvegetated Velocity		8.0 fps (2.44 m/s)
Slope Design Data - C Factors			
	Slope Length (L)	≤ 31	3.1 - 2.1 x 2.1
	≤ 20 ft (6 m)	0.001	0.046
	20-50 ft	0.051	0.079
	≥ 50 ft (15.2 m)	0.03	0.110
NTPP Large-Scale Slope Erosion Control - C Factor			
	Flow Depth		Manning's n
	1.0 to 1.5 ft (0.3 m)		0.030
	0.50 - 2.0 ft		0.050-0.038
	≥ 2.0 ft (0.61 m)		0.038
Roughness Coefficients - Unveg.			
	Flow Depth		Manning's n
	1.0 to 1.5 ft (0.3 m)		0.030
	0.50 - 2.0 ft		0.050-0.038
	≥ 2.0 ft (0.61 m)		0.038

Material Content

70% Straw Fiber: 0.35 lbs/yd² (0.19 kg/m²)

30% Coconut Fiber: 0.76 lbs/yd² (0.38 kg/m²)

Top Heavyweight photodegradable with UV additives: 3 lbs/1000 sq ft (1.47 kg/100 sq m)

Bottom lightweight photodegradable: 1.5 lbs/1000 sq ft (0.73 kg/100 sq m)

Thread: Degradable

Standard Roll Sizes

Width: 5.67 ft (1.73 m) | 9 ft (2.74 m) | 16.0 ft (4.87 m)

Length: 108 ft (32.92 m) | 152 ft (46.34 m) | 198 ft (60.32 m)

Weight ± 90%: 44 lbs (19.95 kg) | 55 lbs (24.95 kg) | 75.6 lbs (34.5 kg)

Area: 80 sq yd (80.9 sm) | 100 sq yd (93.81 sm) | 152 sq yd (155.6 sm)

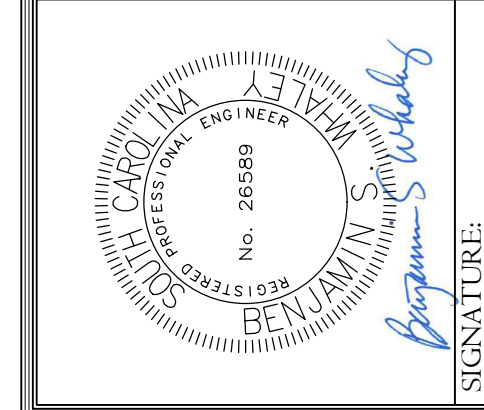
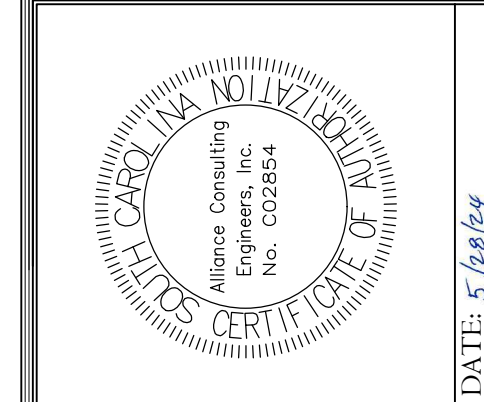
Rollmax Logo

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EC, DMK, MFC, ETC, IBC, & C

REVISION DATE	



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EROSION AND SEDIMENT CONTROL DETAILS

(SHEET 2 OF 2)

PROJECT: C-FUND ROADWAY PAVING OF #1,900-LF RUPERT COURTNEY LANE OFF US HIGHWAY 601 IN THE TOWN OF PAGESLAND IN CHESTERFIELD COUNTY, SOUTH CAROLINA

SHEET: SOUTH CAROLINA
DATE: FEBRUARY 2024
SCALE: AS SHOWN

FILE NAME: C7.0 DWG
REFERENCE FILE: 24109-0013 BASE.dwg
PROJECT NO: 24109-0013
SHEET: C7.1