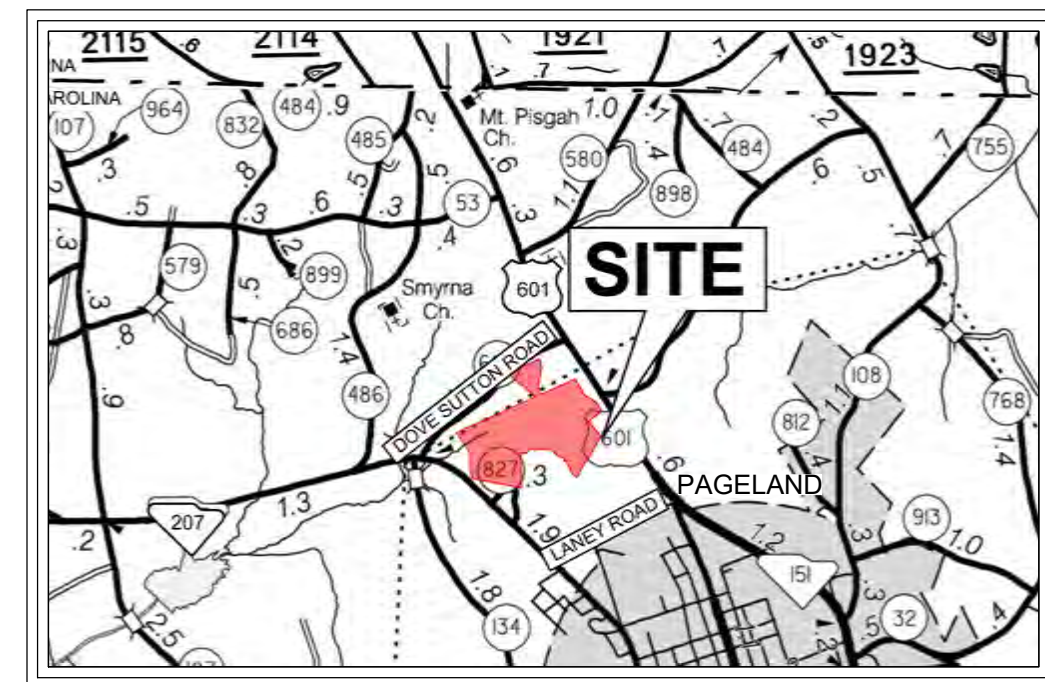


VICINITY MAP
N.T.S.

CONSTRUCTION PLAN SET

± 1,530-LF PHASE IIA INDUSTRIAL PARK LANE AND +/- 1,425-LF PHASE IIB NORTH PARK LANE AT THE +/- 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD (S-682) NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY, SOUTH CAROLINA



SITE LOCATION

"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 of Regulation 72-300 et seq. (if applicable), and in accordance with the terms and conditions of SCR100000. "

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EROSION AND SEDIMENT CONTROL DETAILS (SHEET 4 OF 4)	C8.3

ISSUE FOR CONSTRUCTION

ENGINEER INFORMATION
 COMPANY: ALLIANCE CONSULTING ENGINEERS, INC.
 CONTACT: BENJAMIN S. WHALEY, P.E.
 ADDRESS: P.O. BOX 8147
 CITY, STATE: COLUMBIA, SOUTH CAROLINA 29202
 TELEPHONE: (803) 779-2078
 FAX: (803) 779-2079
 EMAIL: SWHALEY@ALLIANCECE.COM

NPDES PERMIT INFORMATION - FOR THIS PHASE OF CONSTRUCTION
 NPDES DISTURBED AREA = ± 6.1 ACRES
 MAXIMUM LENGTH OF DISTURBED AREA = ± 1,530 LINEAR FEET (LF)
 INDUSTRIAL PARK LANE AND 800-LF OF NORTH PARK LANE

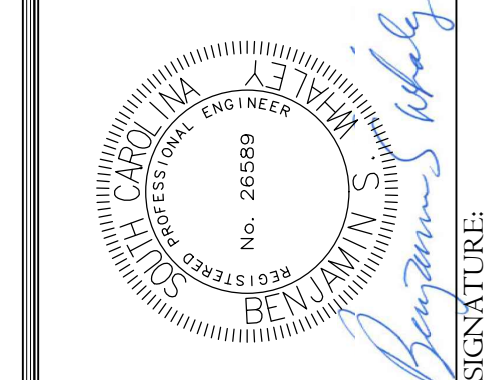
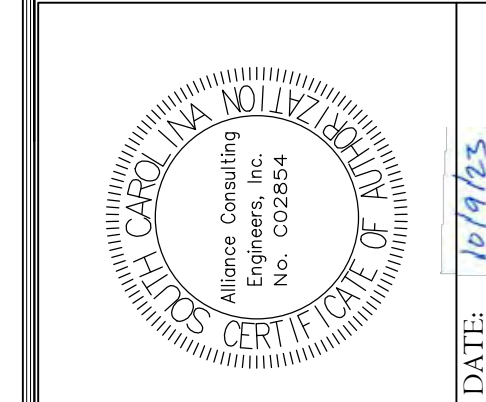
DEVELOPER INFORMATION
 DEVELOPER: CHESTERFIELD COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MS. LIBBY LEAR
 ADDRESS: 700 WEST BOULEVARD
 CITY, STATE: CHESTERFIELD, SC 29709
 TELEPHONE: (843) 623-6500 (CELL)
 EMAIL: LLEAR@CHESTERFIELDCOUNTYSC.COM

OWNER INFORMATION
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 TELEPHONE: (843) 623-2595 (OFFICE)
 (843) 680-2216 (CELL)
 EMAIL: TIMEUBANKS@CHESTERFIELDCOUNTY SC.COM

Chesterfield County Development 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. Ethan Thomas Foard
 Mr. Gerald L. Miller
 Mr. Bruce E. Rivers
 Mr. William Todd Smallwood

Utility Provider Contacts
Water Provider:
 Contact: Chesterfield County Rural Water
 13598 South Carolina 9 Bypass; Chesterfield, SC
 Telephone: (843) 623-6090
Wastewater Provider:
 Contact: Town of Pageland
 126 N. Pearl Street; Pageland, SC
 Telephone: (843) 672-7292
Electrical Utility Provider:
 Contact: Lynchess 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: AmeriGas, Inc.
 112 South Main Street
 Jefferson, South Carolina
 Telephone: (844) 330-7620

REVISION	DATE



ALLIANCE CONSULTING ENGINEERS

ALLIANCE CONSULTING ENGINEERS, INC.
 POST OFFICE BOX 8147
 COLUMBIA, SOUTH CAROLINA 29202-8147
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PROJECT: CONSTRUCTION PLAN SET
 ± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

SEPTEMBER 2023

Project No. 22202-0013

DWG NO. 01.1648-D28

STANDARD NOTES

PERMITS / LICENSES

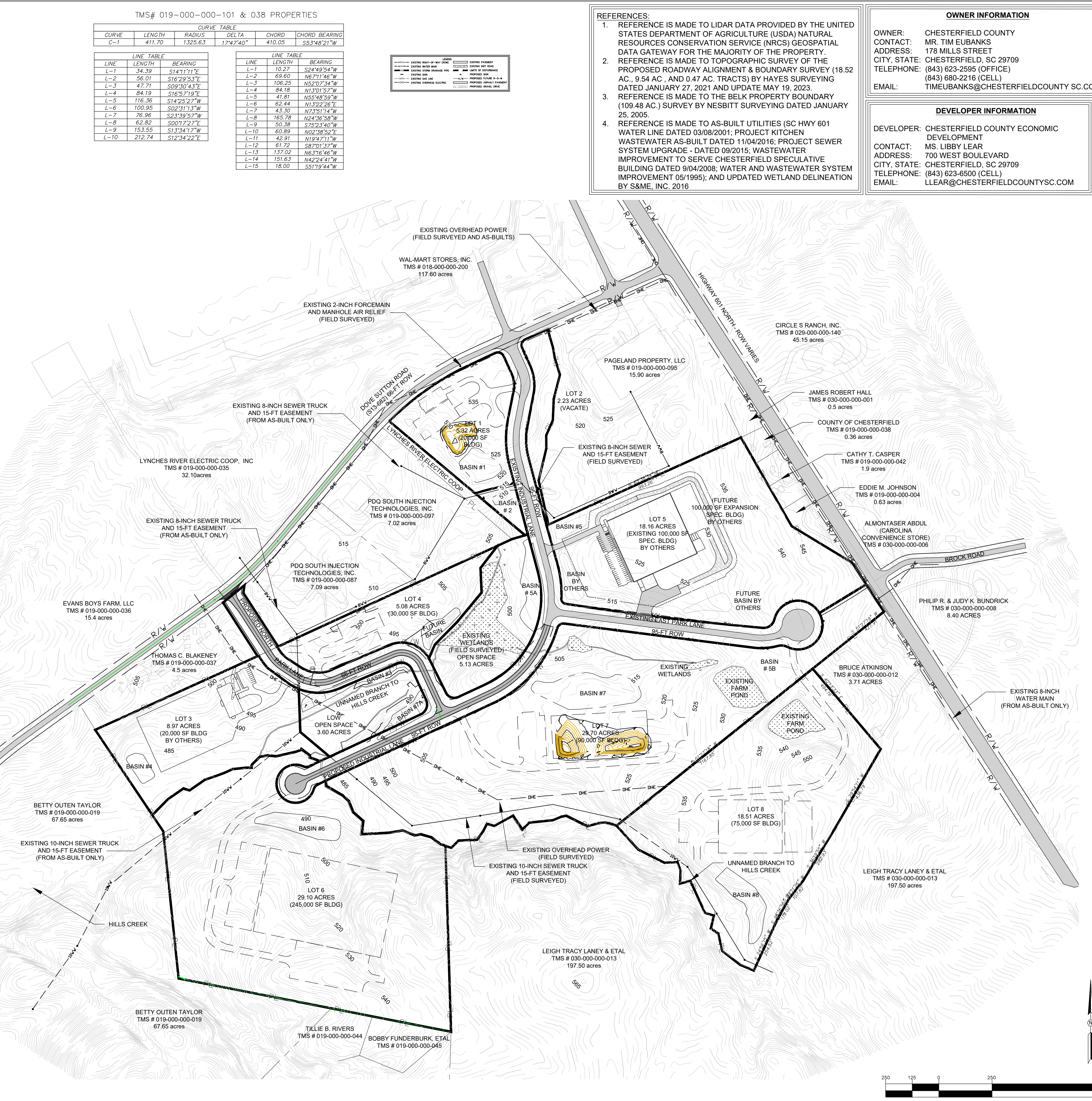
- 1. PRIOR TO THE COMMENCEMENT OF ANY WORK WITHIN THE PROJECT SITE, THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL POSSESS ALL APPLICABLE PERMITTING AND THE OWNER AND ENGINEER WILL BE GIVEN AT LEAST TWENTY-FOUR (24) HOURS NOTICE BEFORE BEGINNING WORK.

PROCEDURES / RESPONSIBILITIES

- 1. ALL WETLANDS SIGNAGE TO BE INSTALLED PER THE APPROVED CONSTRUCTION DRAWINGS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. SLOPES WHICH EXCEED EIGHT (8) PERCENT SHOULD BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATION PLANTS IN ADDITION TO VEGETATION SEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
3. 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.
4. 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 REPAIRS 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 BMP'S 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 THE BMP'S.
5. 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.
6. 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.
7. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
8. 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 S.C.R. 100000.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL AND REPLACE WITHIN ALL GRADED 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.
15. 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.
16. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).
17. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTE WATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
- WASTE WATER 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.
18. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. 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 BMP'S 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 THE BMP'S.
19. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SCS 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 BMP'S MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
20. 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.
21. AN AS-BUILT SURVEY(S), SIGNED BY A S.C. LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER, SHOULD BE SUBMITTED TO CHESTERFIELD COUNTY FOR DETENTION STRUCTURE(S) ON THIS SITE. THE SURVEY(S) WILL BE PROVIDED BY THE CONTRACTOR TO ALLIANCE CONSULTING ENGINEERS TO SHOW GRADES, CONTOURS, AND DEPTHS FOR ALL STRUCTURE(S) AND SHOULD INCLUDE THE ELEVATIONS AND DIMENSIONS OF ALL OUTLET STRUCTURES, INCLUDING BUT NOT LIMITED TO PIPES, ORIFICES, RISERS, WEIRS, AND EMERGENCY SPILLWAYS.

BELK PROPERTY AND WETLAND AREAS

Three tables of LINE TABLE data with columns for LINE, LENGTH, BEARING, and BEARING. Tables are numbered 1, 2, and 3.



TMS# 019-000-000-101 & 038 PROPERTIES

CURVE TABLE and LINE TABLE data. CURVE TABLE columns: CURVE, LENGTH, RADIUS, DELTA, CHORD, CHORD BEARING. LINE TABLE columns: LINE, LENGTH, BEARING.

- REFERENCES: 1. REFERENCE IS MADE TO LIDAR DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS) GEOSPATIAL DATA GATEWAY FOR THE MAJORITY OF THE PROPERTY.
2. REFERENCE IS MADE TO TOPOGRAPHIC SURVEY OF THE PROPOSED ROADWAY ALIGNMENT & BOUNDARY SURVEY (18.52 AC., 9.54 AC., AND 0.47 AC. TRACTS) BY HAYES SURVEYING DATED JANUARY 27, 2021 AND UPDATE MAY 19, 2023.
3. REFERENCE IS MADE TO THE BELK PROPERTY BOUNDARY (109.48 AC.) SURVEY BY NESBITT SURVEYING DATED JANUARY 25, 2005.
4. REFERENCE IS MADE TO AS-BUILT UTILITIES (SC HWY 601 WATER LINE DATED 03/08/2001; PROJECT KITCHEN WASTEWATER AS-BUILT DATED 11/04/2016; PROJECT SEWER SYSTEM UPGRADE - DATED 09/2015; WASTEWATER IMPROVEMENT TO SERVE CHESTERFIELD SPECULATIVE BUILDING DATED 9/04/2008; WATER AND WASTEWATER SYSTEM IMPROVEMENT 05/1995); AND UPDATED WETLAND DELINEATION BY S&M, INC. 2016.

OWNER INFORMATION: CHESTERFIELD COUNTY, MR. TIM EUBANKS, 178 MILLS STREET, CHESTERFIELD, SC 29709. DEVELOPER INFORMATION: CHESTERFIELD COUNTY ECONOMIC DEVELOPMENT, MS. LIBBY LEAR, 700 WEST BOULEVARD, CHESTERFIELD, SC 29709.

REVISION DATE table with arrows. APPROVALS table with roles: ENGINEER, DESIGNER, etc. SIGNATURE: Benjamin Libby, DATE: 10/19/25.

October 09, 2023 - 11:48:27 AM S:\Projects\22202-0013 Ith Entrance Rwy Etc. & Ph. Ith Secondary Rwy Lynchies Riv. Etc. South Chesterfield County\Construction Plans\Construction Plans\CI_0 Overall Site.dwg

ALLIANCE CONSULTING ENGINEERS logo and contact info. PROJECT: CONSTRUCTION PLAN SET ± 1530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND. SHEET: C1.0 FILE NAME: 22202-0013 BASE.DWG PROJECT NO: 22202-0013 DWG NO. 01.1648-D28

October 06, 2023 - 11:18:30 AM S:\Projects\22202-0013 Ph. II A Entrance Rwy Ext. & Ph. IIB Secondary Rwy Lynchies Riv Ind Ph. South Chesterfield Colberg\Construction Plans\Construction Plans\C2.0 Overall Site Plan.dwg
 THIS DRAWING IS THE PROPERTY OF ALLIANCE CONSULTING ENGINEERS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALLIANCE CONSULTING ENGINEERS, INC. THIS DRAWING IS INTENDED SPECIFICALLY FOR THE PROJECT IDENTIFIED HEREIN AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF ALLIANCE CONSULTING ENGINEERS, INC.

LEGEND

- SETBACK LINE
- PARCEL BOUNDARY
- EXISTING ASPHALT PAVEMENT
- EXISTING BUILDING
- LIMITS OF DISTURBANCE
- PROPOSED HEAVY DUTY ASPHALT
- SIGHT DISTANCE TRIANGLE
- STOP BAR AND SIGNAGE

General Notes for Basic Industrial Zone:

- Front Yard Setback = 30-ft (Road frontage)
- Side Yard Setback = 10-ft
- Rear Yard Setback = 5-ft

CHESTERFIELD COUNTY ACKNOWLEDGES THE SECOND DRIVEWAY OFF DOVE SUTTON ROAD (S-13-662) REPLACES THE ACCESS FORMERLY APPROVED OFF US 601 AND THE FUTURE DRIVEWAY OFF US 601 WILL NOT ALLOW FOR PERMITTING FOR THE INDUSTRIAL PARK IN THE FUTURE.

MINIMUM SIGHT DISTANCE CALCULATIONS (RIGHT TURN)

$$ISD = 1.47 \times V_{major} \times t_b$$

$$V_{major} = 55 \text{ MPH}$$

$$t_b = 11.5 \text{ sec}$$

(+0.5 for each additional lane)

$$ISD = 1.47 \times (55) \times (11.5) = 929.8 = \mathbf{-930-LF}$$

MINIMUM SIGHT DISTANCE CALCULATIONS (LEFT TURN)

$$ISD = 1.47 \times V_{major} \times t_b$$

$$V_{major} = 55 \text{ MPH}$$

$$t_b = 11.5 \text{ sec}$$

(+0.5 for each additional lane (36-ft Median = 3 lanes))

$$ISD = 1.47 \times (55) \times (11.5 + 0.5) = 970.2 = \mathbf{-970-LF}$$

- REFERENCES:**
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REVISION	DATE

APPROVALS

ENGINEER	DESIGNER	CHECKED BY	APPROVED
BSW	BSW	JAT	BSW

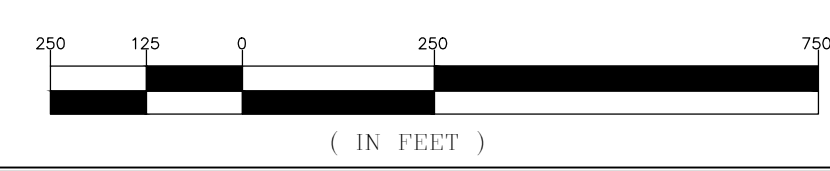
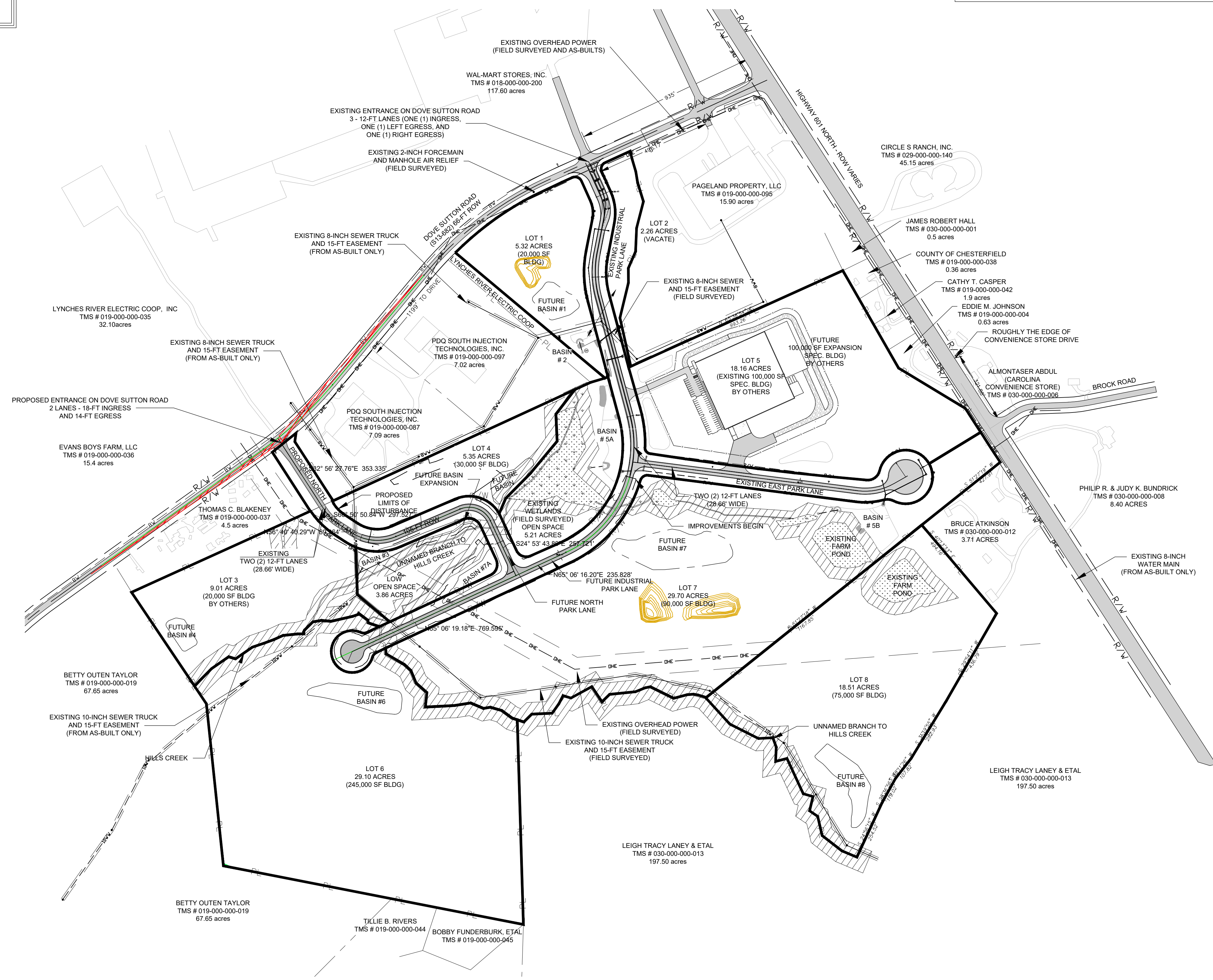
ALLIANCE CONSULTING ENGINEERS, INC.
 ENGINEERING CERTIFICATE NO. 002854

SIGNATURE: *Benjamin Libby*

DATE: 10/9/23

ALLIANCE CONSULTING ENGINEERS

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



OVERALL SITE PLAN

PROJECT: CONSTRUCTION PLAN SET ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C2.0.dwg
 REFERENCE FILE: 22202-0013
 BASE.dwg
 PROJECT NO.: 22202-0013

SHEET C2.0

DATE: SEPTEMBER 2023 SCALE: AS NOTED

DWG NO. 01.1648-D28

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LEGEND

- SETBACK LINE
- PARCEL BOUNDARY
- ▨ EXISTING ASPHALT PAVEMENT
- ▩ EXISTING BUILDING
- - - LIMITS OF DISTURBANCE
- ▨ PROPOSED HEAVY DUTY ASPHALT
- ▲ SIGHT DISTANCE TRIANGLE
- STOP BAR AND SIGNAGE

NOTE:
 1) THE PRESENT CONDITION OF THE INTERMEDIATE COURSE IS STABLE AND DO NOT SHOW AREAS OF STRESS OR REPAIR NEEDED. THE TWO (2) CULVERT CROSSING AREAS WHICH HAD SETTLEMENT PROBLEMS WITHIN THE ONE (1) YEAR WARRANTY PERIOD HAS BEEN EVALUATED AND APPEAR IN STABLE CONDITION WITH NO ADDITIONAL SETTLEMENT OR STRESS IN THE SURFACE. THE TOP 2-INCH ASPHALT SURFACE CAN BE APPLIED WITH A HOT TACK COAT ON THE EXISTING INTERMEDIATE ASPHALT COURSE.

REFERENCES:

1. REFERENCE IS MADE TO LIDAR DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS) GEOSPATIAL DATA GATEWAY FOR THE MAJORITY OF THE PROPERTY.
2. REFERENCE IS MADE TO TOPOGRAPHIC SURVEY OF THE PROPOSED ROADWAY ALIGNMENT & BOUNDARY SURVEY (18.52 AC., 9.54 AC., AND 0.47 AC. TRACTS) BY HAYES SURVEYING DATED JANUARY 27, 2021 AND UPDATE MAY 19, 2023.
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4. REFERENCE IS MADE TO AS-BUILT UTILITIES (SC HWY 601 WATER LINE DATED 03/08/2001; PROJECT KITCHEN WASTEWATER AS-BUILT DATED 11/04/2016; PROJECT SEWER SYSTEM UPGRADE - DATED 09/2015; WASTEWATER IMPROVEMENT TO SERVE CHESTERFIELD SPECULATIVE BUILDING DATED 9/04/2008; WATER AND WASTEWATER SYSTEM IMPROVEMENT 05/1995); AND UPDATED WETLAND DELINEATION BY S&ME, INC. 2016

OWNER INFORMATION

OWNER: CHESTERFIELD COUNTY
 CONTACT: MR. TIM EUBANKS
 ADDRESS: 178 MILLS STREET
 CITY, STATE: CHESTERFIELD, SC 29709
 TELEPHONE: (843) 623-2595 (OFFICE)
 (843) 680-2216 (CELL)
 EMAIL: TIMEUBANKS@CHESTERFIELDCOUNTY SC.COM

DEVELOPER INFORMATION

DEVELOPER: CHESTERFIELD COUNTY ECONOMIC DEVELOPMENT
 CONTACT: MS. LIBBY LEAR
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 CITY, STATE: CHESTERFIELD, SC 29709
 TELEPHONE: (843) 623-6500 (CELL)
 EMAIL: LLEAR@CHESTERFIELDCOUNTYSC.COM

REVISION	DATE

APPROVALS

ENGINEER	DESIGNER	CHECKED BY	APPROVED BY
BSW	BSW	BSW	BSW

DATE: 10/25/23

SIGNATURE: *Benjamin Libby*

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: CONSTRUCTION PLAN SET ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

SHEET: PAVEMENT SURFACING, STRIPING AND SIGNAGE ENLARGEMENT PLAN

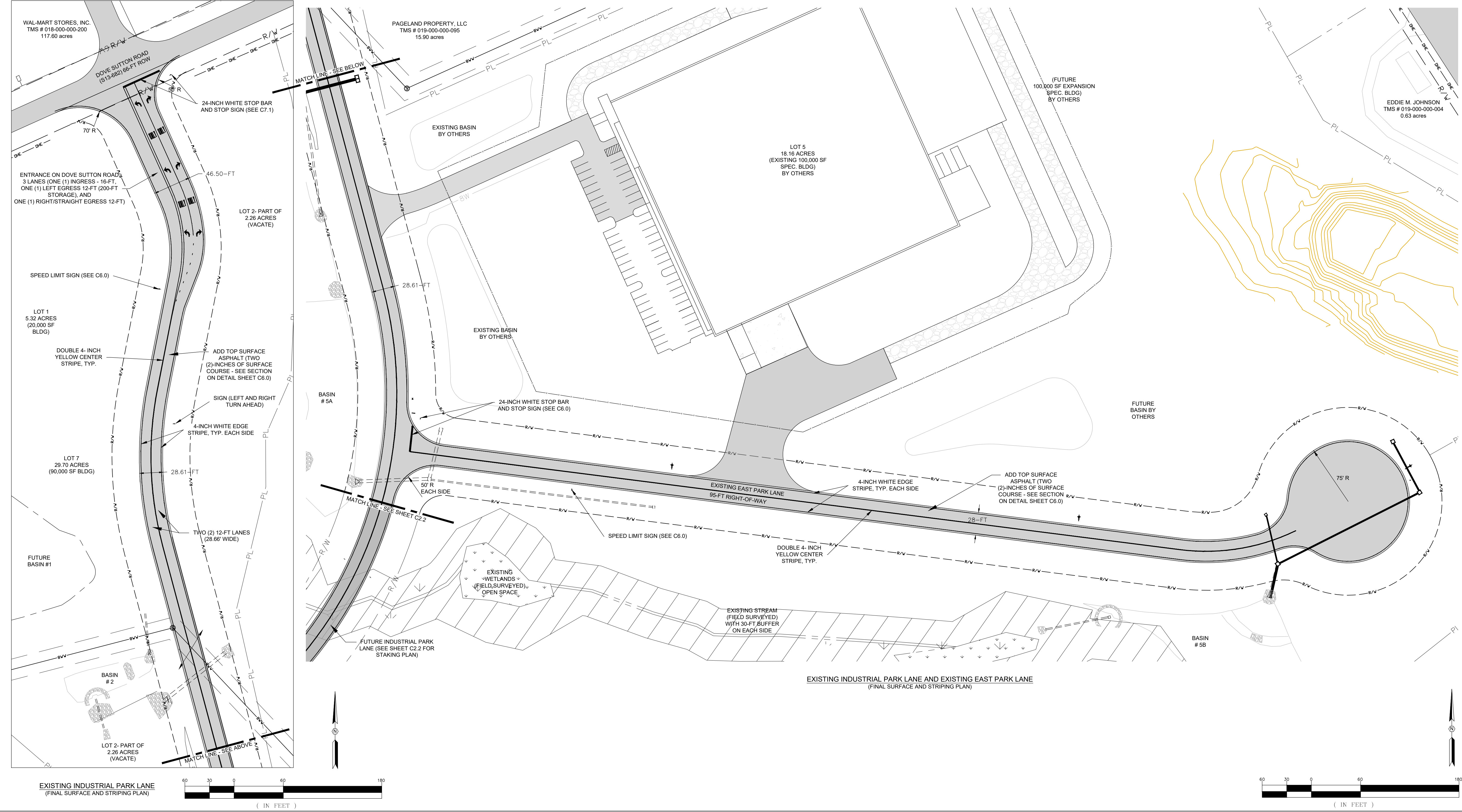
DATE: SEPTEMBER 2023

SCALE: 1" = 60'

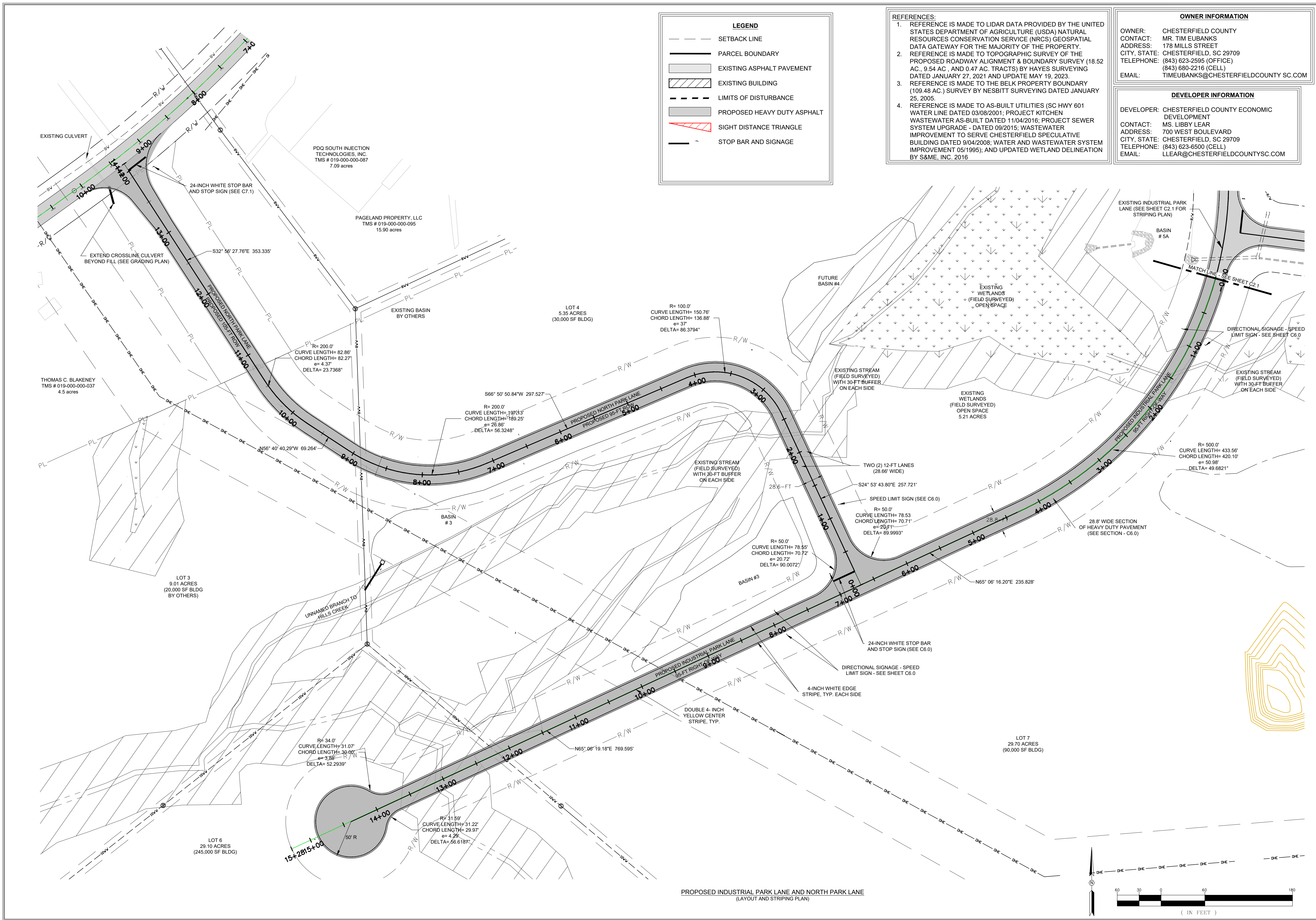
FILE NAME: C2.0.dwg
 REFERENCE FILE: 22202-0013 BASE.dwg
 PROJECT NO: 22202-0013

SHEET C2.1

DWG NO. 01.1648-D28



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LEGEND

- SETBACK LINE
- PARCEL BOUNDARY
- EXISTING ASPHALT PAVEMENT
- EXISTING BUILDING
- LIMITS OF DISTURBANCE
- PROPOSED HEAVY DUTY ASPHALT
- SIGHT DISTANCE TRIANGLE
- STOP BAR AND SIGNAGE

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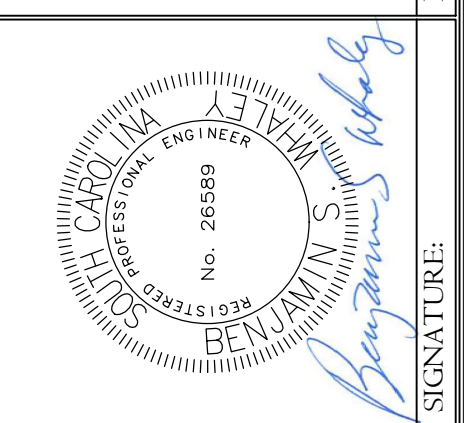
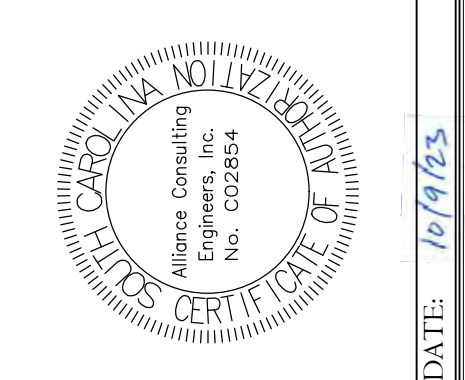
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REVISION DATE	



ALLIANCE CONSULTING ENGINEERS
 Alliance Consulting Engineers, Inc.
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 Phone (803) 779-2078 • Fax (803) 779-2079

PROJECT: CONSTRUCTION PLAN SET ± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

SHEET: PAVEMENT LAYOUT, STRIPING AND SIGNAGE ENLARGEMENT PLAN

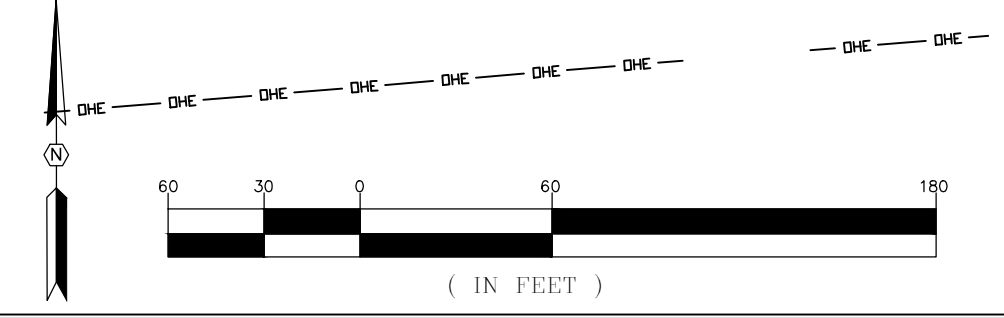
DATE: SEPTEMBER 2023

SCALE: 1" = 60'

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 REFERENCE FILE: 22202-0013 BASE.dwg
 PROJECT NO.: 22202-0013

SHEET: C2.2

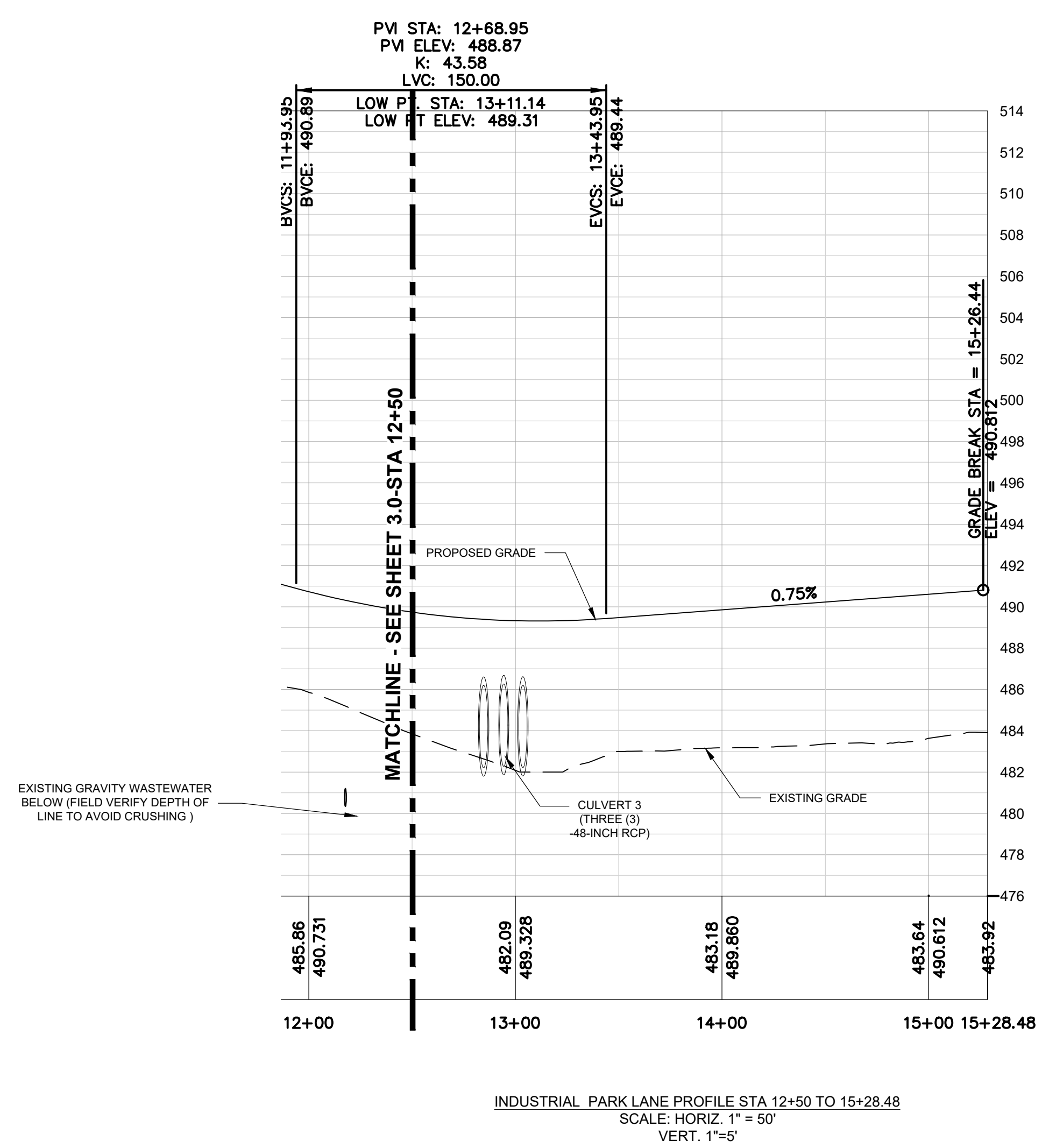
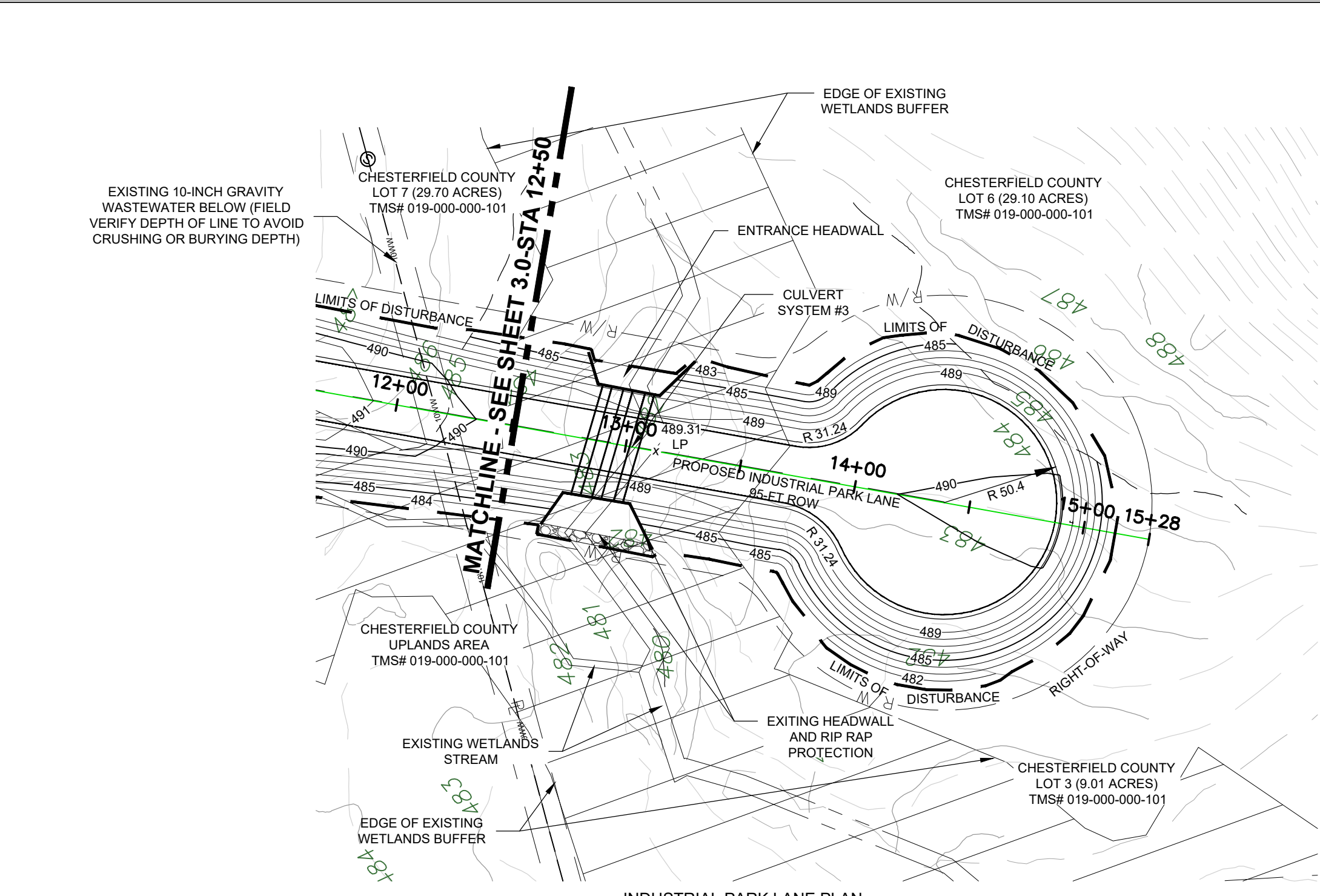
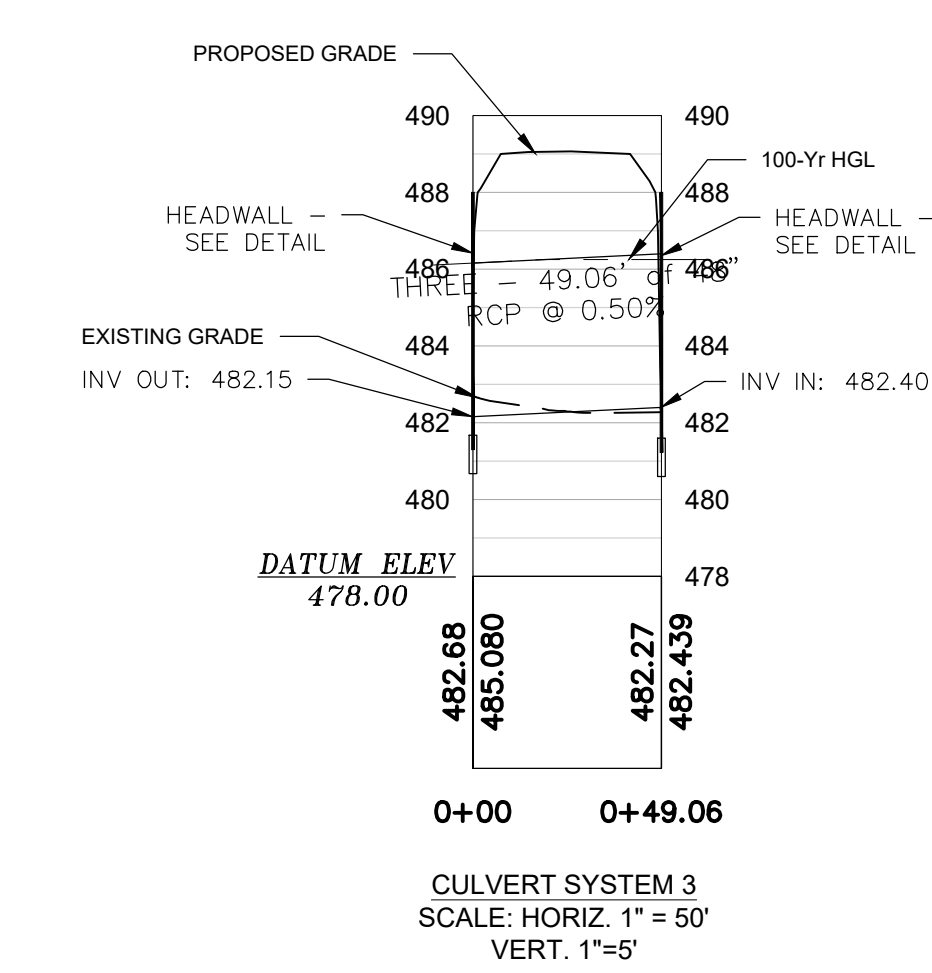
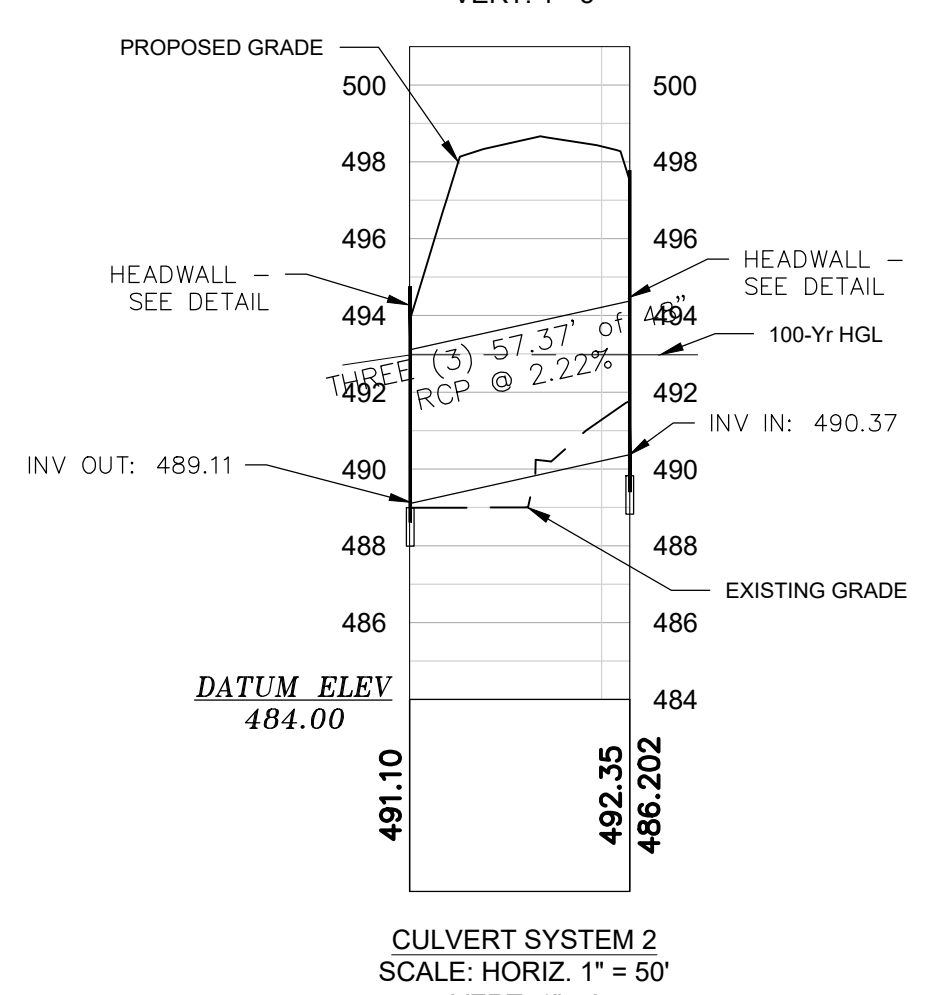
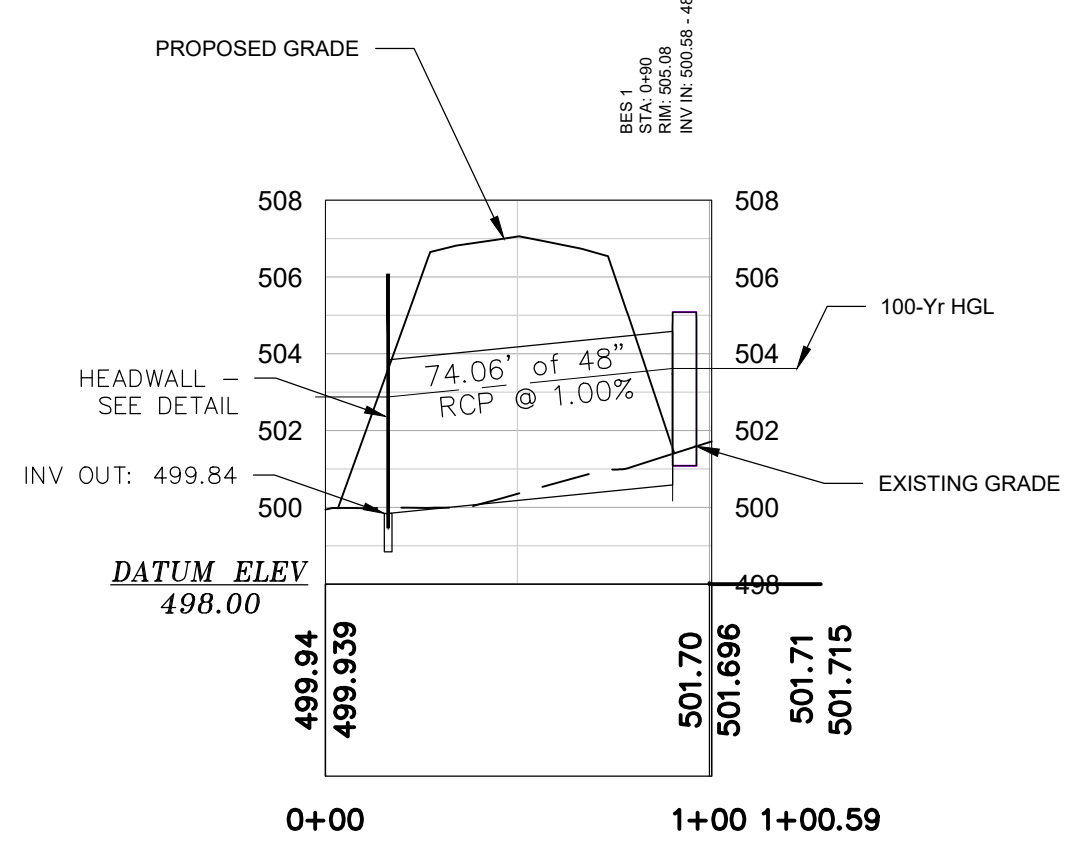
DWG NO. 01.1648-D28



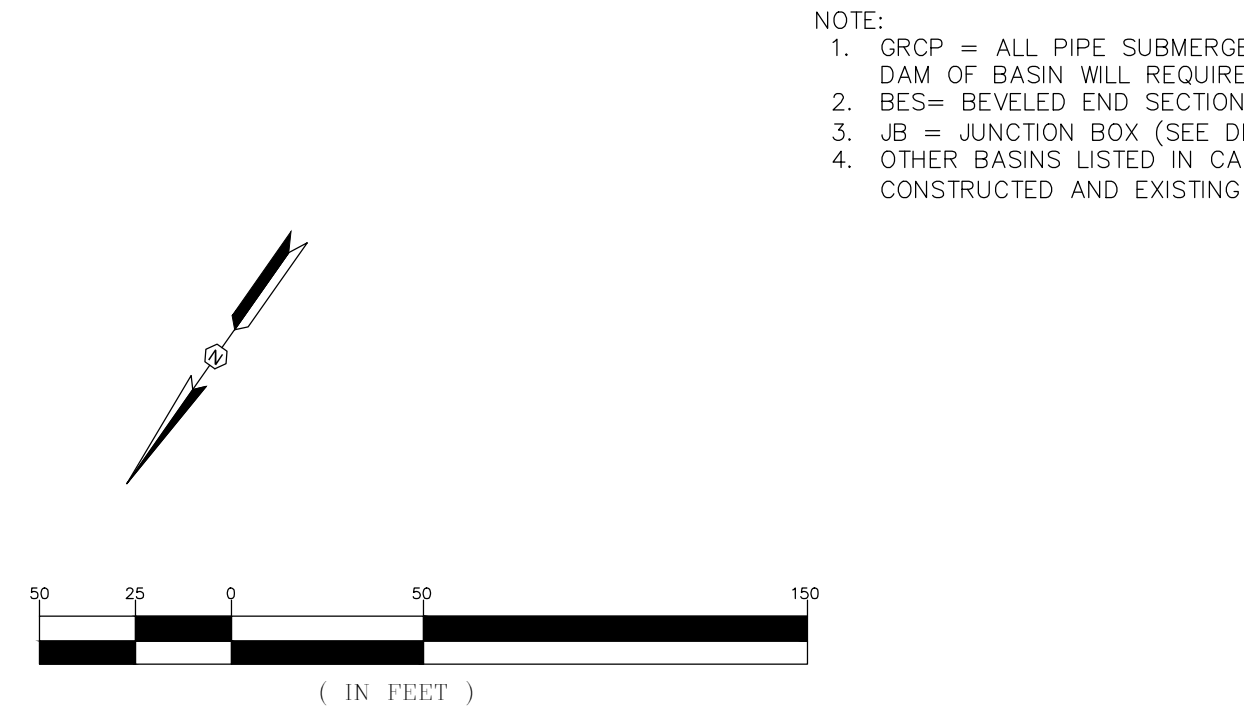
PROPOSED INDUSTRIAL PARK LANE AND NORTH PARK LANE (LAYOUT AND STRIPING PLAN)

October 06, 2023 - 11:38:15 AM 8:13: Project: 22202-0013 (In) (A) Entrance Rwy Ext. & Ph. II B Secondary Rwy Lynchies Rvr rd Ph. South Chesterfield Colodg/Construction Plans/Construction Plans/ C3.0 Entrance Road Plan & Profile.dwg

LEGEND	
—450—	EXISTING MAJOR CONTOURS
-451-	EXISTING MINOR CONTOURS
—RW—	PROPERTY LINE
—SD—	EXISTING STORM DRAINAGE
▬▬▬	EXISTING ASPHALT PAVEMENT
▬▬▬▬▬	LIMITS OF DISTURBANCE
—450—	PROPOSED MAJOR CONTOURS
-451-	PROPOSED MINOR CONTOURS
—SD—	PROPOSED STORM DRAINAGE
▬▬▬	PROPOSED ASPHALT



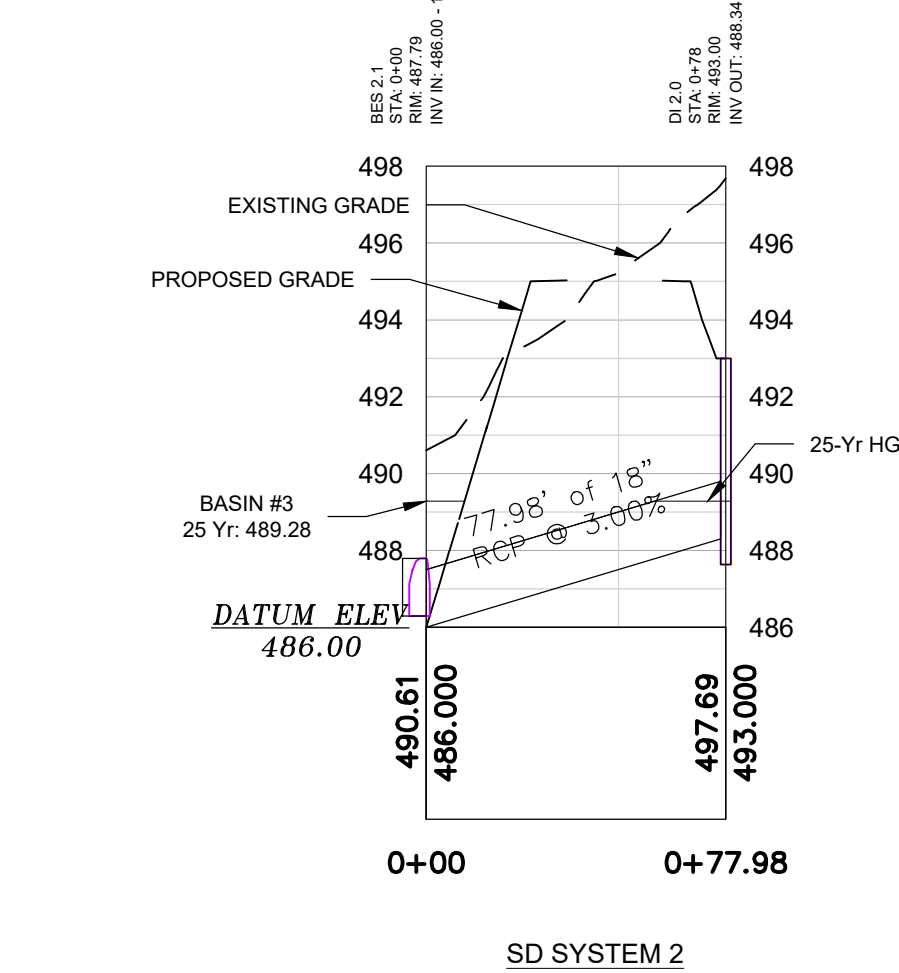
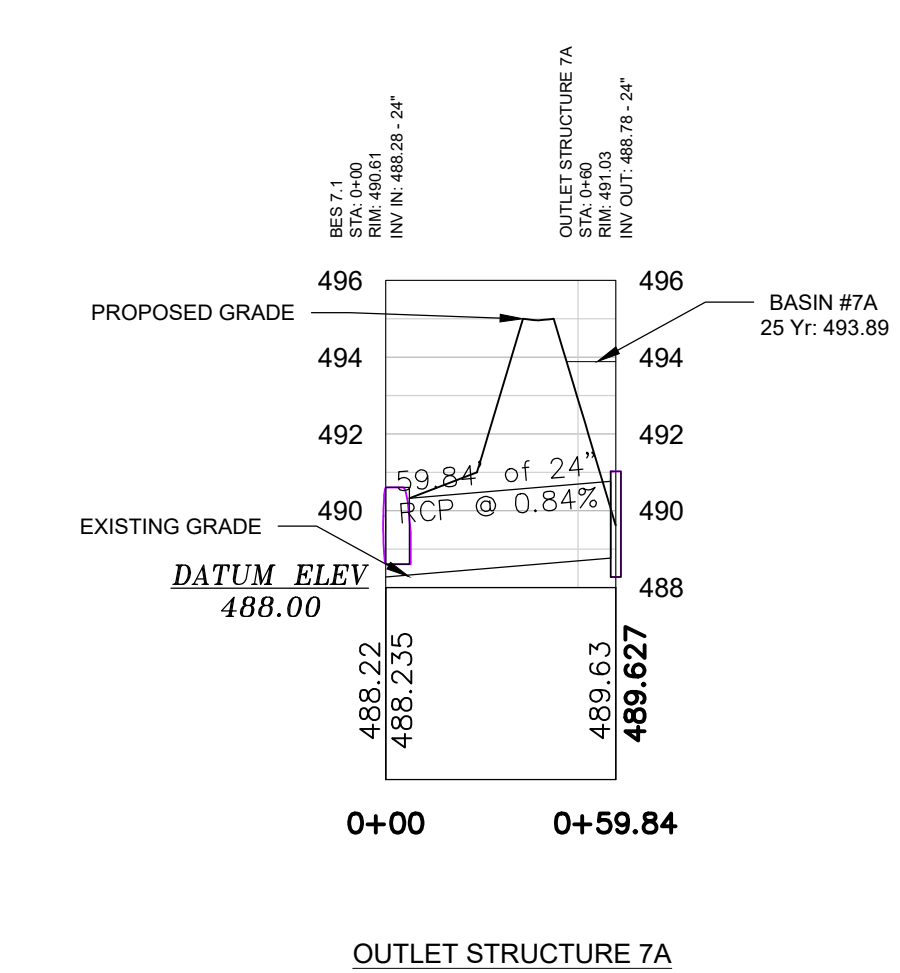
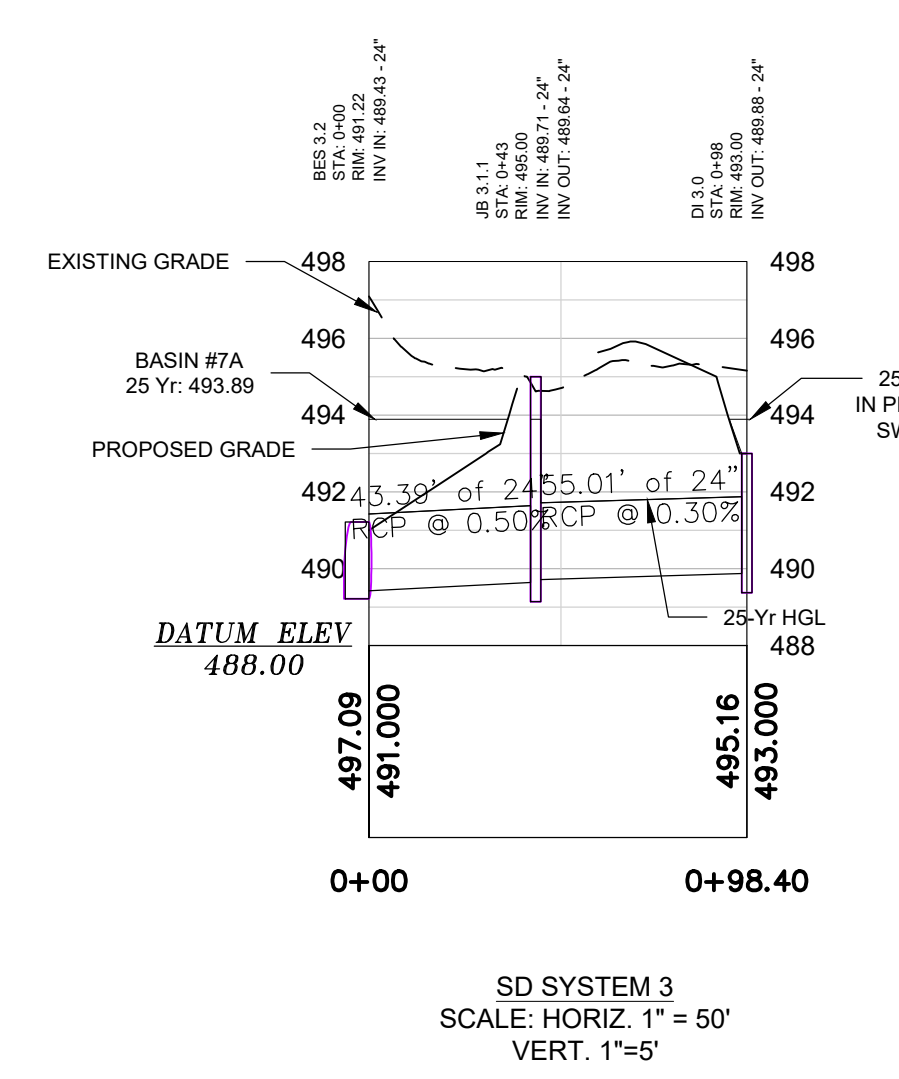
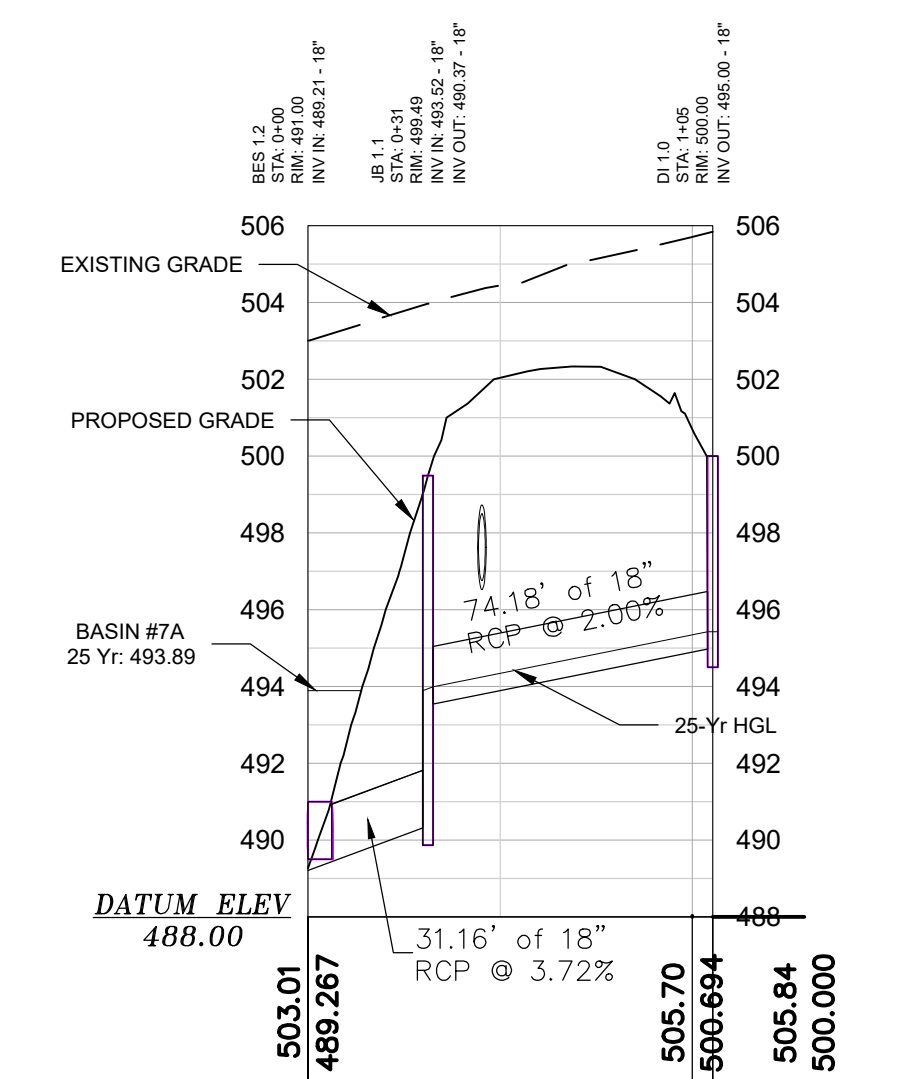
- REFERENCES:**
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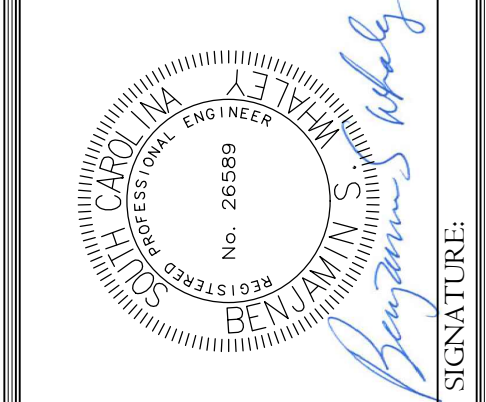
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REVISION DATE	

APPROVALS	
ENGINEER	ISSW
DESIGNER	ISSW
CHECKER	JAF
APPROVED	ISSW



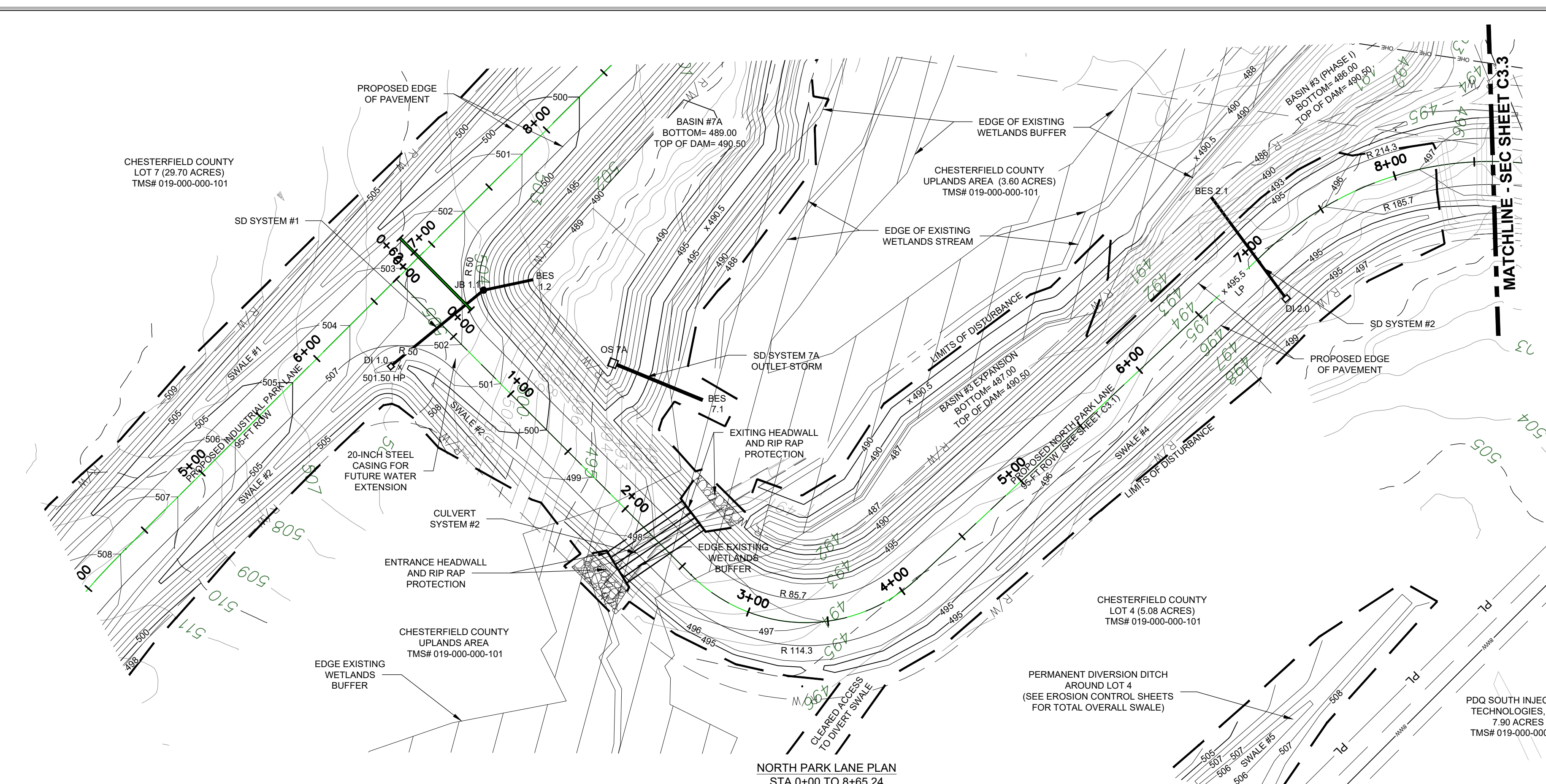
ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147, Columbia, South Carolina 29202-8147
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INDUSTRIAL PARK LANE PLAN SET
CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:	C3.0.dwg	SHEET C3.1
REFERENCE FILE:	22202-0013 BASE.dwg	
PROJECT NO.:	22202-0013	

DWG NO. 01.1648-D28

October 06, 2023 - 11:38:55 AM S:\Projects\22202-0013 Ph. IA Entrance Rwy Ext. & Ph. IIB Secondary Rwy Lynchies Rvr Ind Ph. South Chesterfield Cooling/Construction Plans\Construction Plans\C3.0 Entrance Road Plan & Profile.dwg



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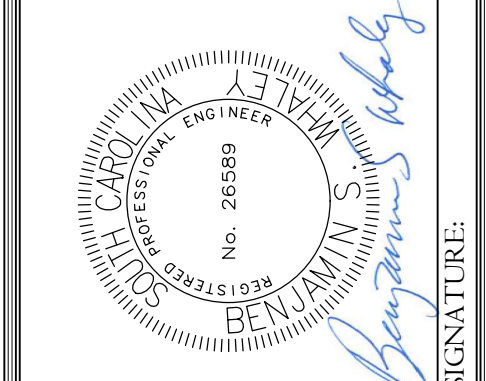
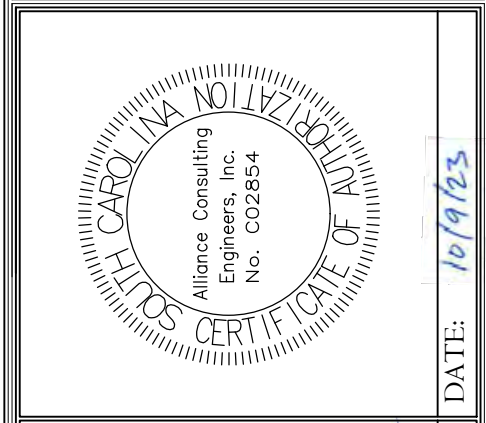
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REVISION DATE	



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 Post Office Box 8147, Columbia, South Carolina 29202-8147
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NORTH PARK LANE PLAN & PROFILE (STA 0+00 TO 8+65)

CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND
 CHESTERFIELD COUNTY SOUTH CAROLINA

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PROJECT NO. 22202-0013	

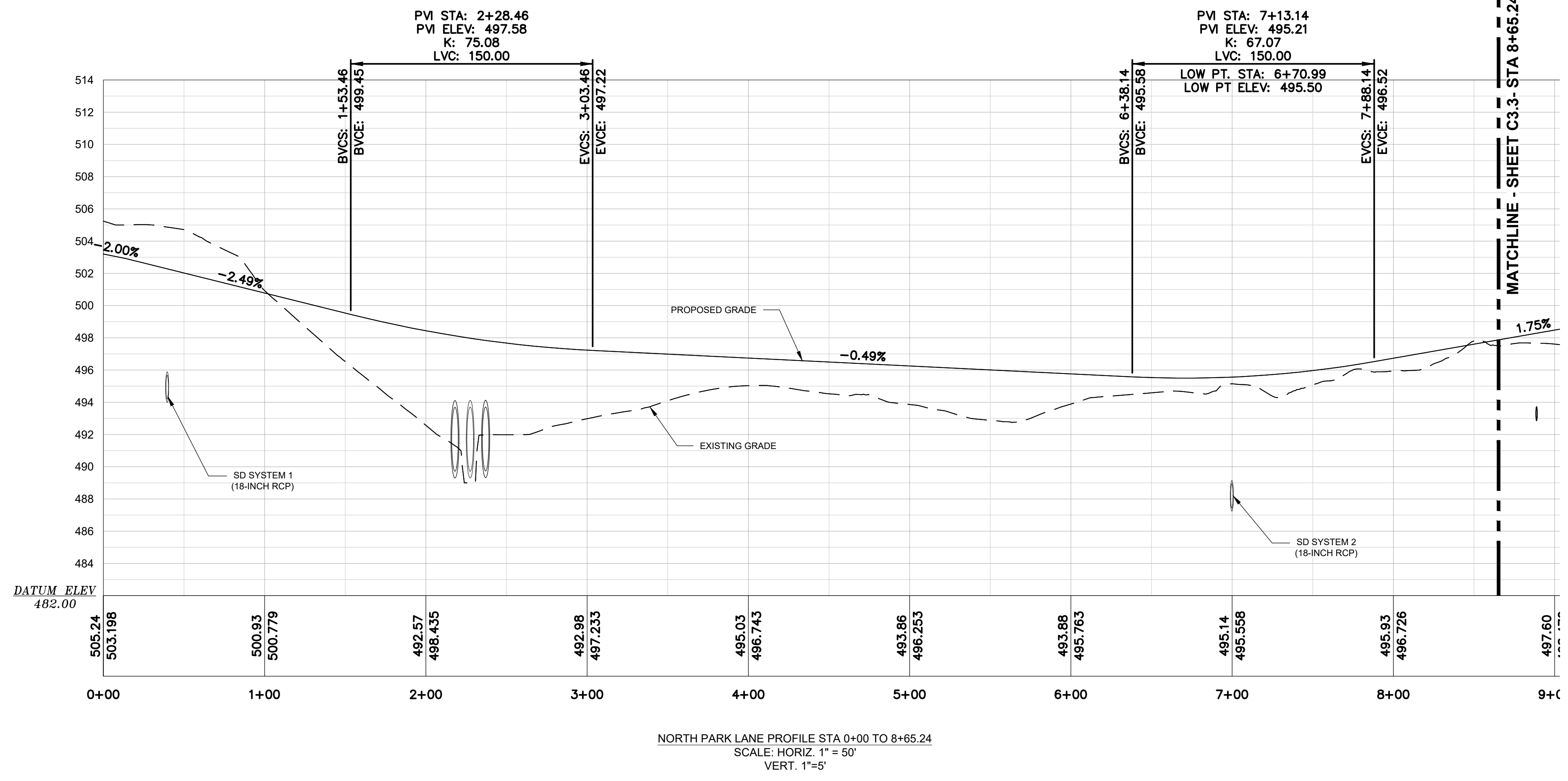
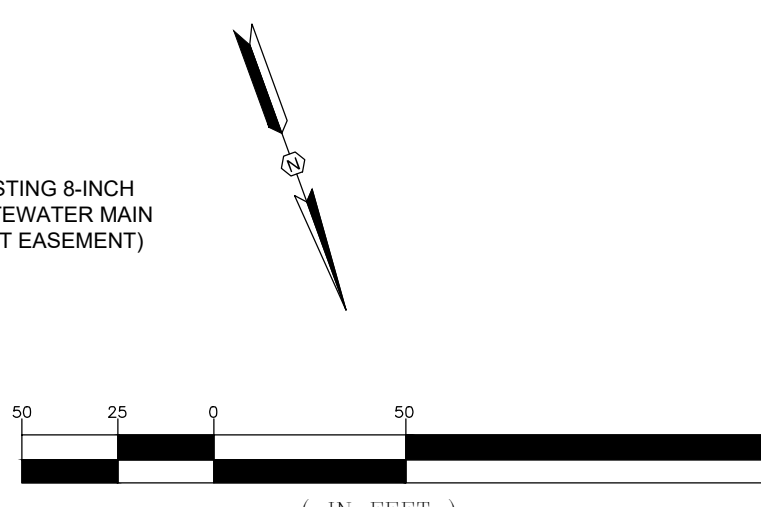
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LEGEND

- EXISTING GRADE
- PROPOSED SURFACE
- HYDRAULIC GRADE LINE

LEGEND

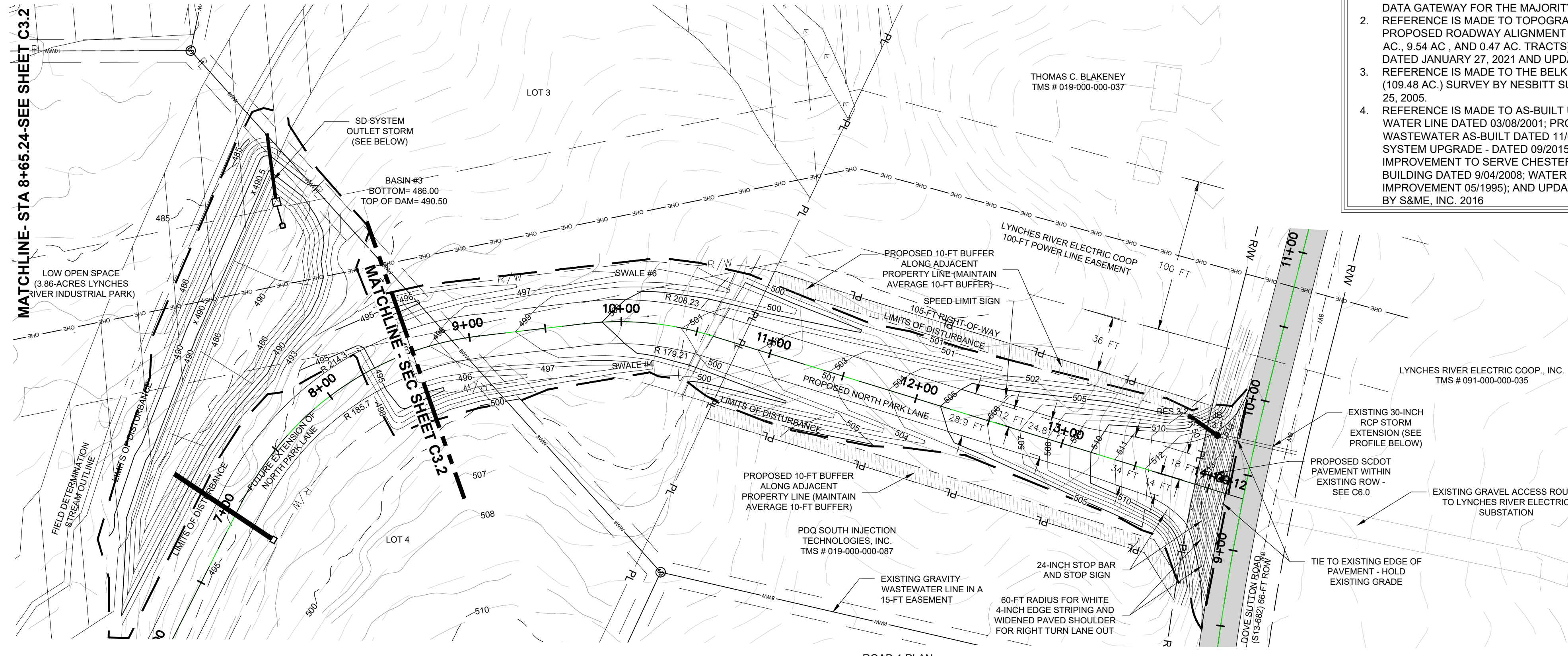
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- PROPERTY LINE
- EXISTING STORM DRAINAGE
- EXISTING ASPHALT PAVEMENT
- LIMITS OF DISTURBANCE
- PROPOSED MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- PROPOSED STORM DRAINAGE
- PROPOSED ASPHALT



DWG NO. 01.1648-D28

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October 06, 2023 - 11:37:34 AM S:\Projects\22202-0013 (In Progress)\Secondary\Roadway\Construction Plans\C3.2\Entrance Road Plan & Profile.dwg

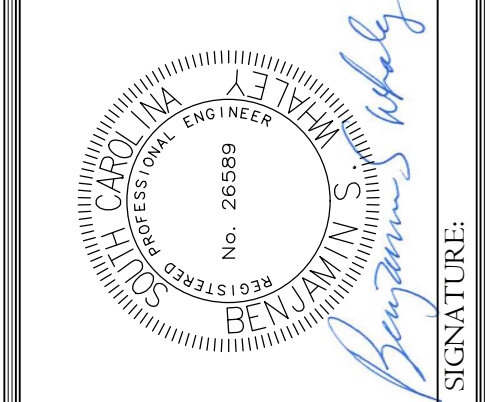


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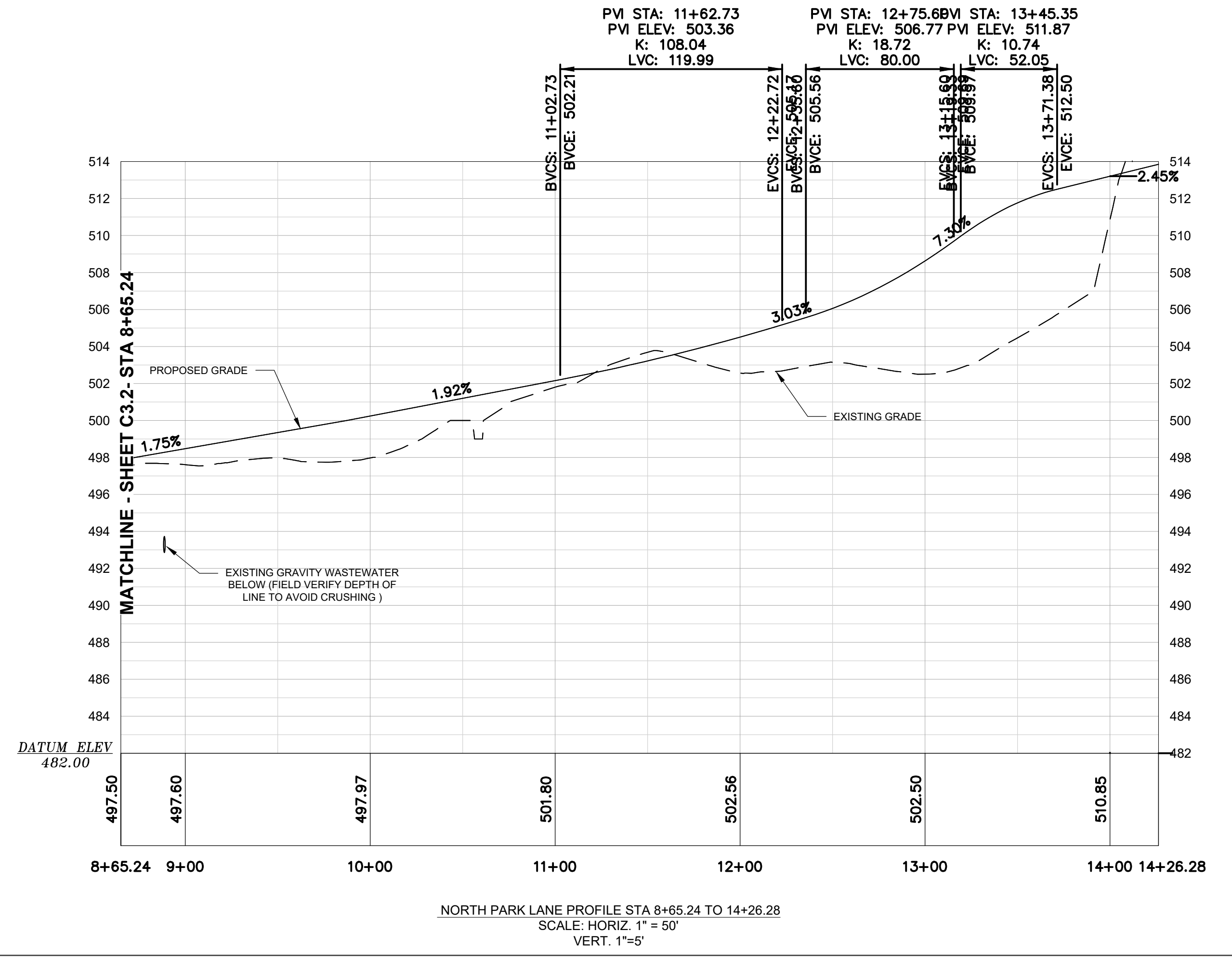
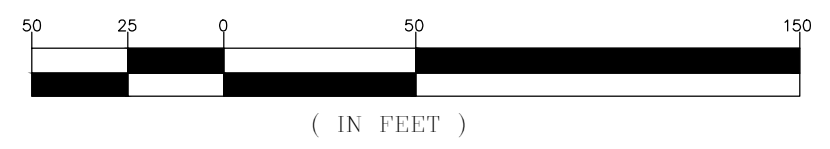
OWNER INFORMATION	
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REVISION DATE	



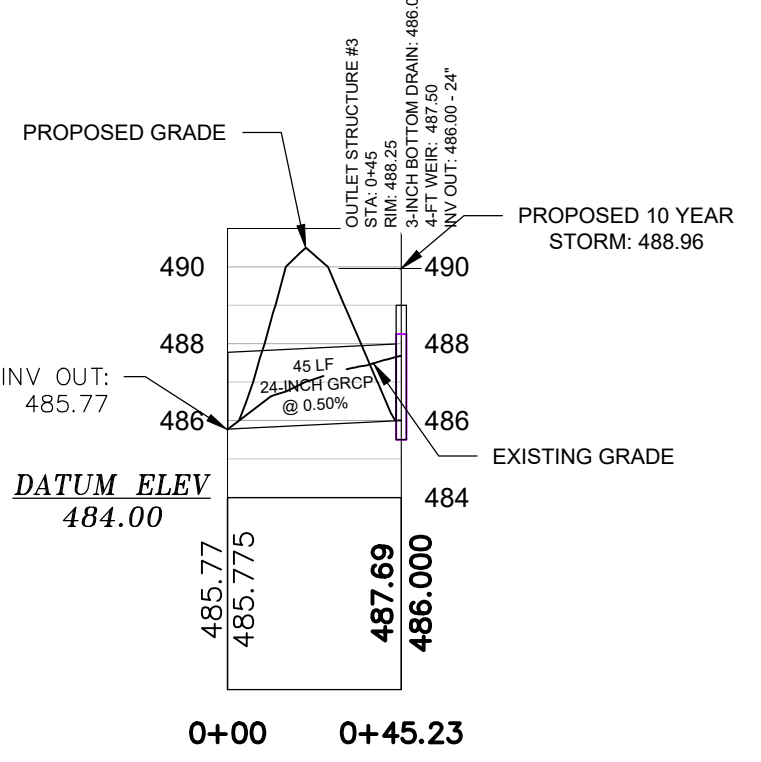
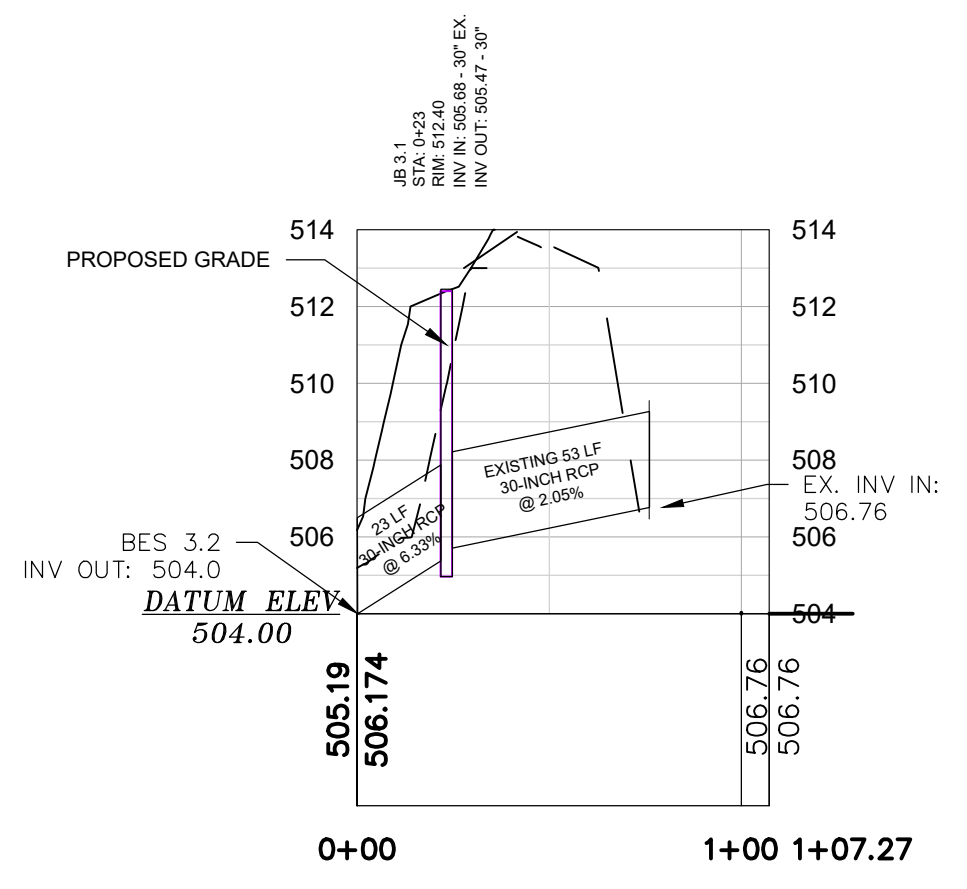
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LEGEND

EXISTING GRADE	---
PROPOSED SURFACE	---
HYDRAULIC GRADE LINE	---

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SHEET: NORTH PARK LANE PLAN & PROFILE (STA 8+65.24 TO 14+26.28) AND STORM DRAINAGE PROFILES

DATE: SEPTEMBER 2023

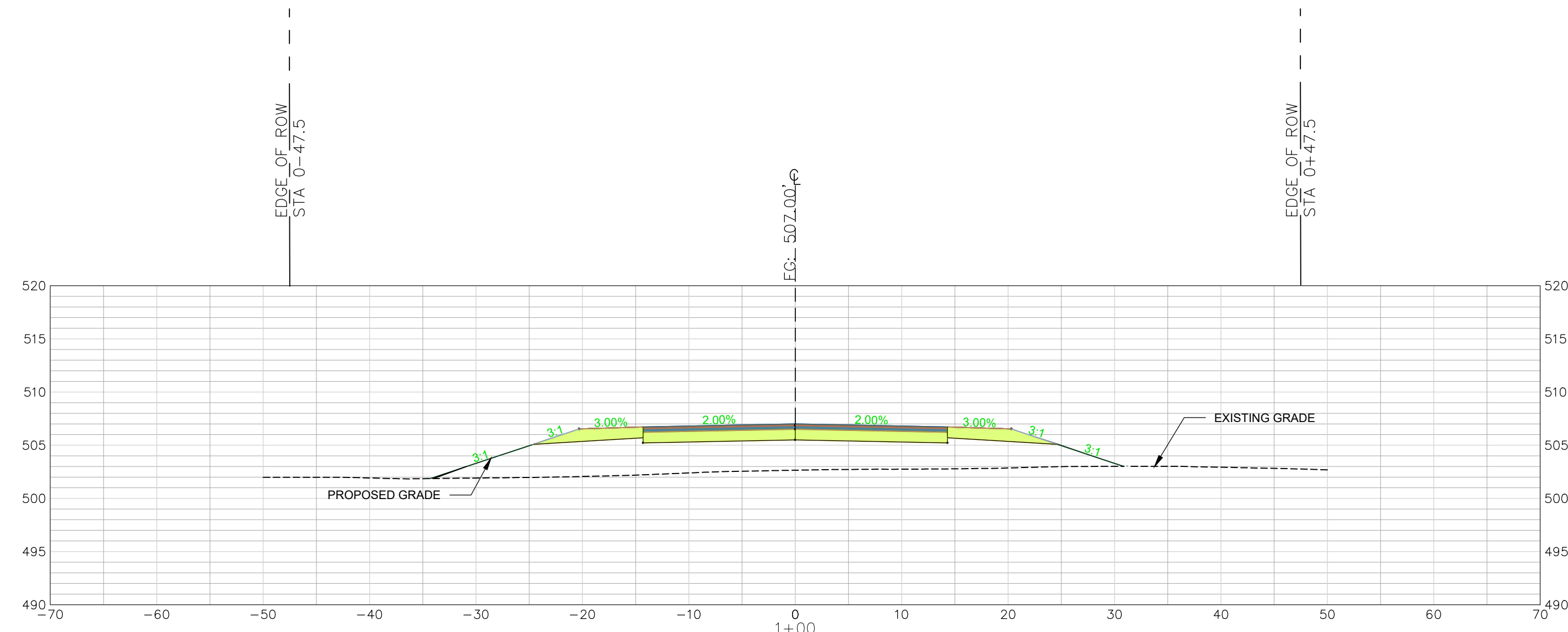
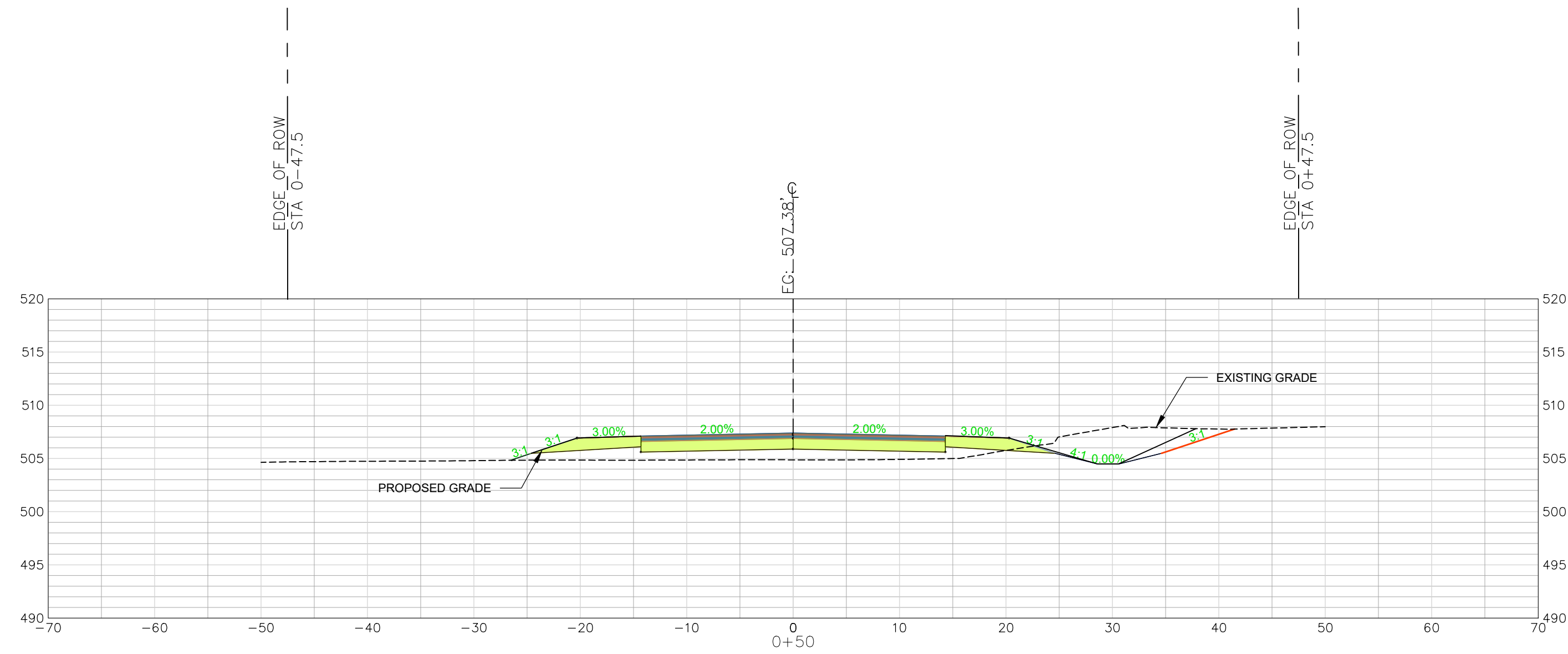
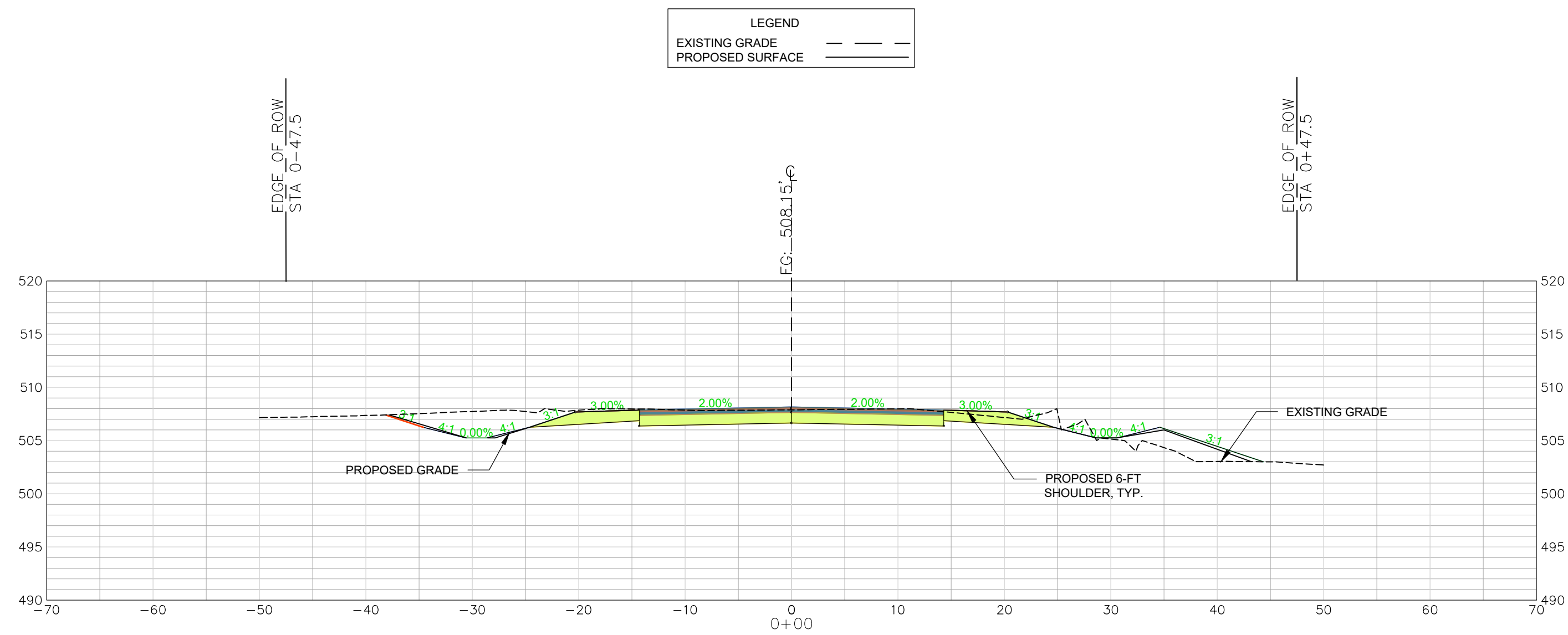
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REFERENCE FILE: 22202-0013	
BASE FILE: PROJECT.DWG	
PROJECT NO.: 22202-0013	

DWG NO. 01.1648-D28

October 06, 2023 - 12:08:18 PM 8:1/Project/22202-0013 Ph IA Entrance Rwy Ext & Ph IIB Secondary Rwy Lynchies Rvr and Ph Construction Plans/Construction Plans/Construction Plans/04.0 Entrance Cross Section (1 of 10).dwg

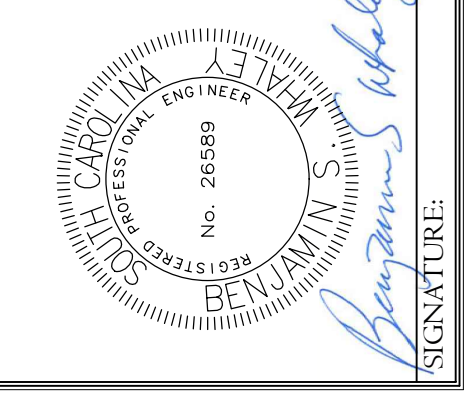
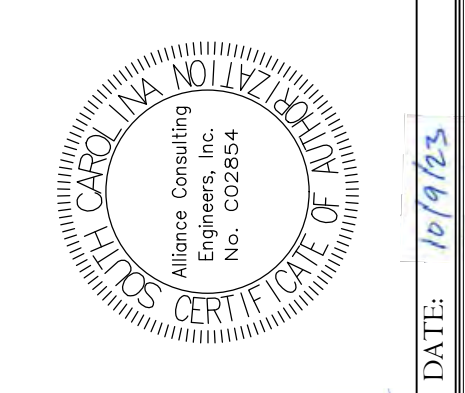
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INDUSTRIAL PARK LANE
CROSS SECTIONS 0+00 - 1+00
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

LEGEND
EXISTING GRADE ---
PROPOSED SURFACE —

APPROVALS	ENGINEER	DESIGNER	TRACER	CHECKED BY	APPROVED
	BSW	BSW	JAH	BSW	BSW



INDUSTRIAL PARK LANE
CROSS SECTION
STA 0+00 TO 1+00
(SHEET 1 OF 10)

CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1.425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHIES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
C4.0.dwg
REFERENCE FILE:
22202-0013
BASE.dwg
PROJECT NO.
22202-0013

DWG NO. 01.1648-D28

DATE: 10/9/23

SIGNATURE: Benjamin J. Hagan

SCALE: 1" = 10'

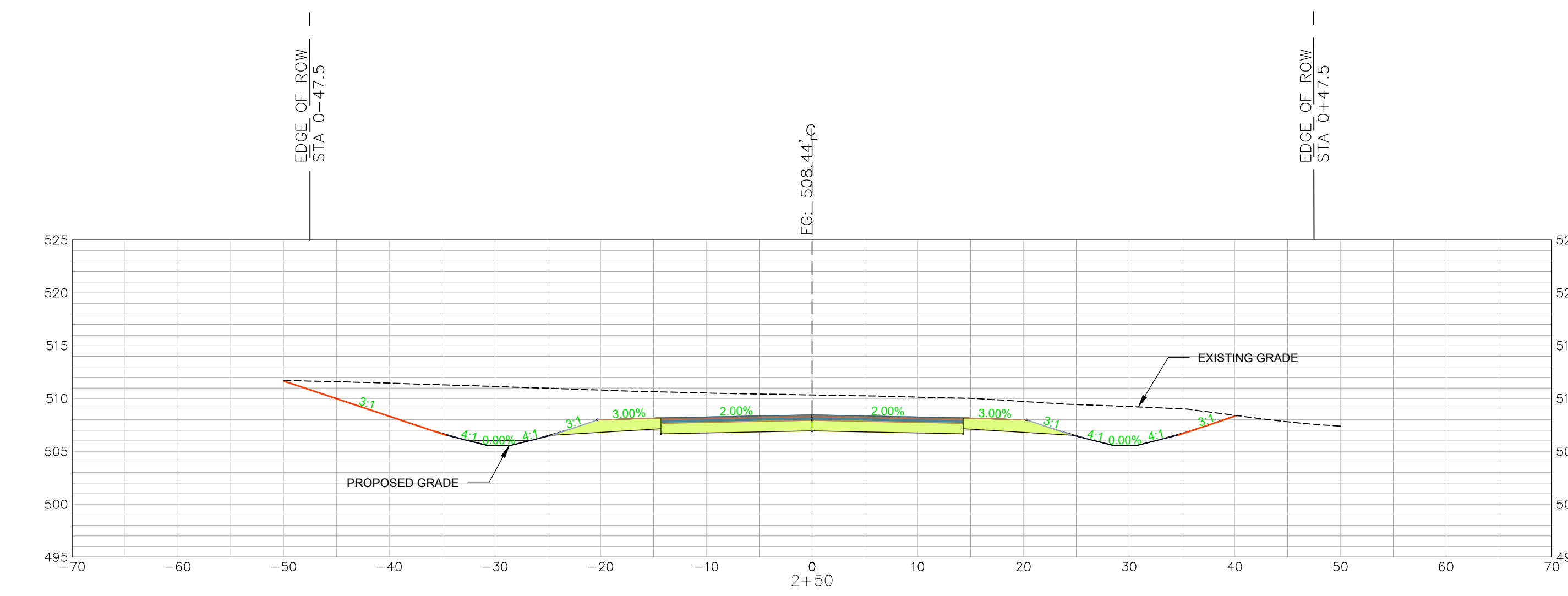
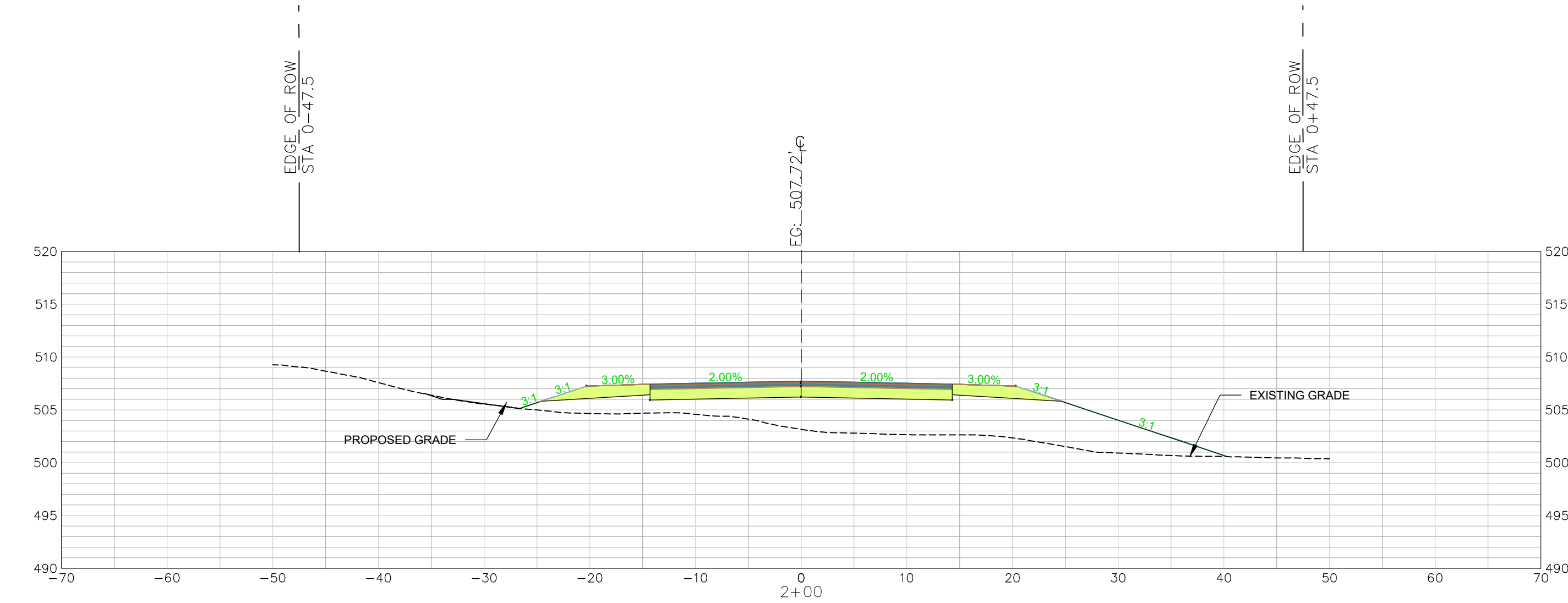
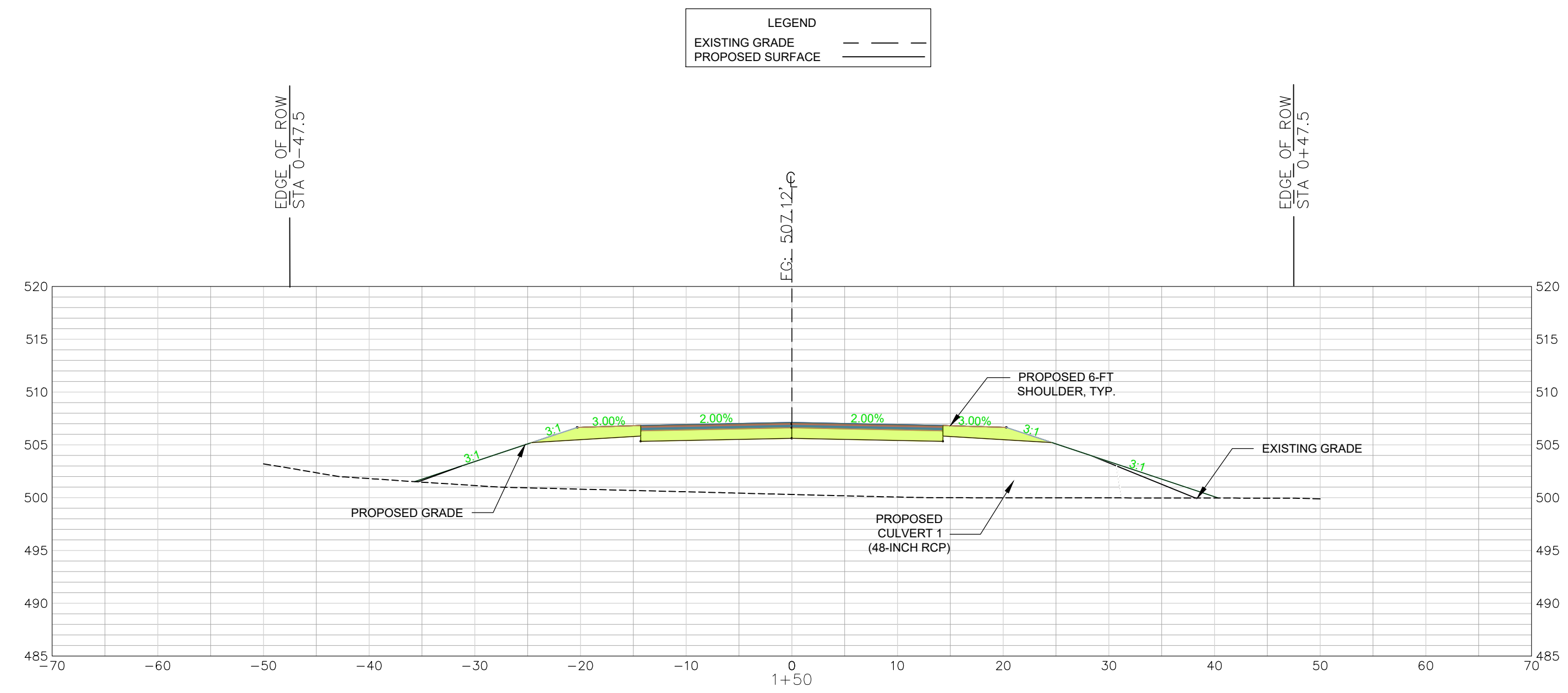
DATE: SEPTEMBER 2023

SOUTH CAROLINA

SHEET
C4.0

October 06, 2023 - 12:21:39 PM 8:1\Projects\22202-0013 Ph IA Entrance Rwy Ext & Ph IIB Secondary Rwy Lynchies Riv and PK South Chesterfield College\Construction Plans\Construction Plans\C4.0 Entrance Cross Section (1 of 10).dwg

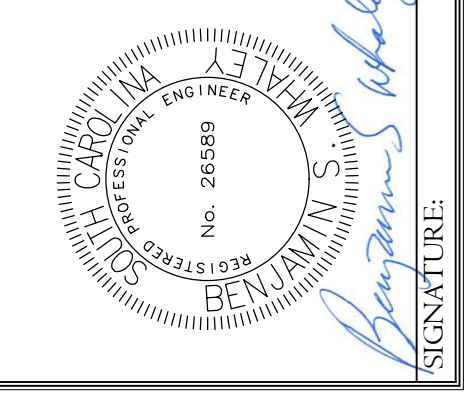
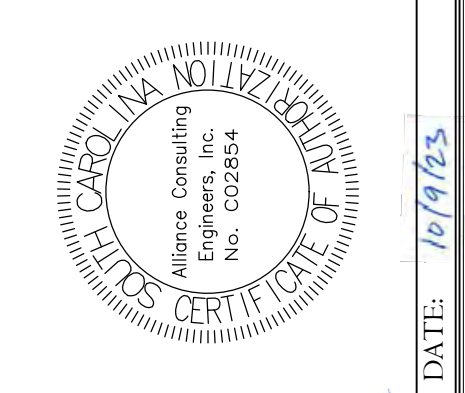
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INDUSTRIAL PARK LANE
 CROSS SECTIONS 1+50 - 2+50
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 1'

REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE ENGINEER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



INDUSTRIAL PARK LANE
 CROSS SECTION
 STA 1+50 TO 2+50
 (SHEET 2 OF 10)

SCALE: 1" = 10'

DATE: SEPTEMBER 2023

PROJECT: CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

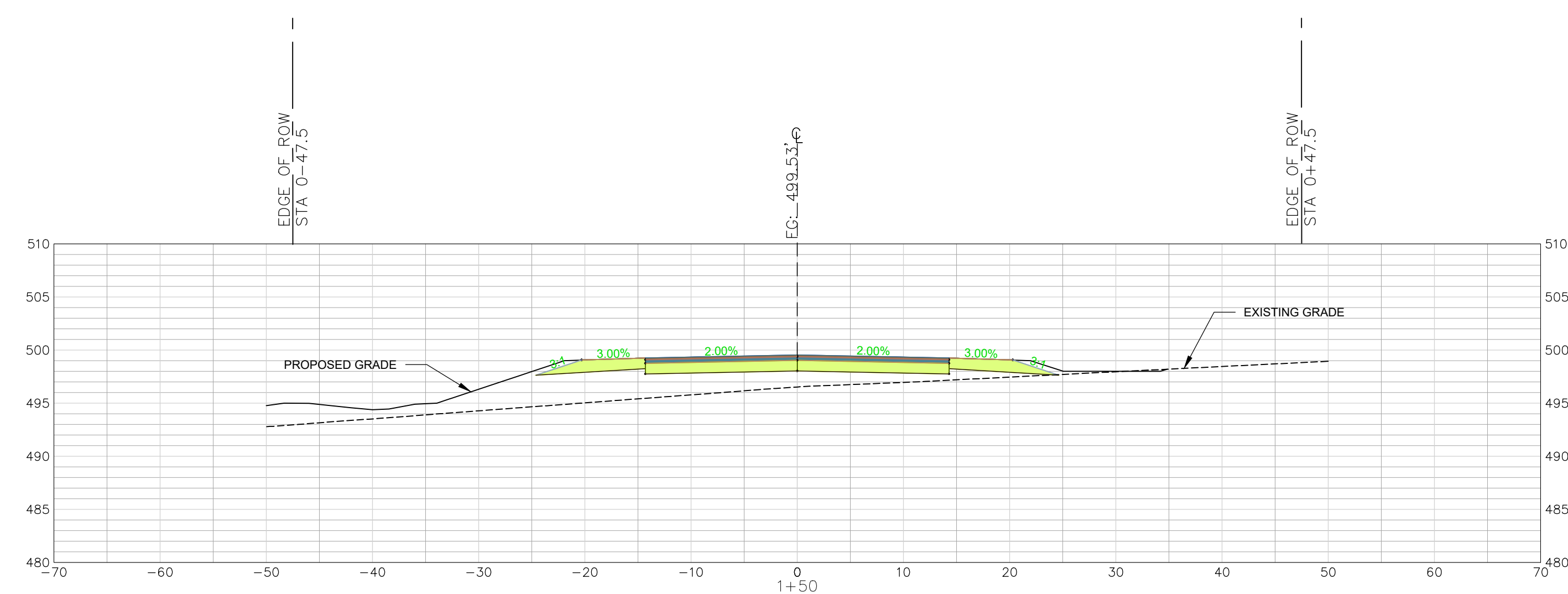
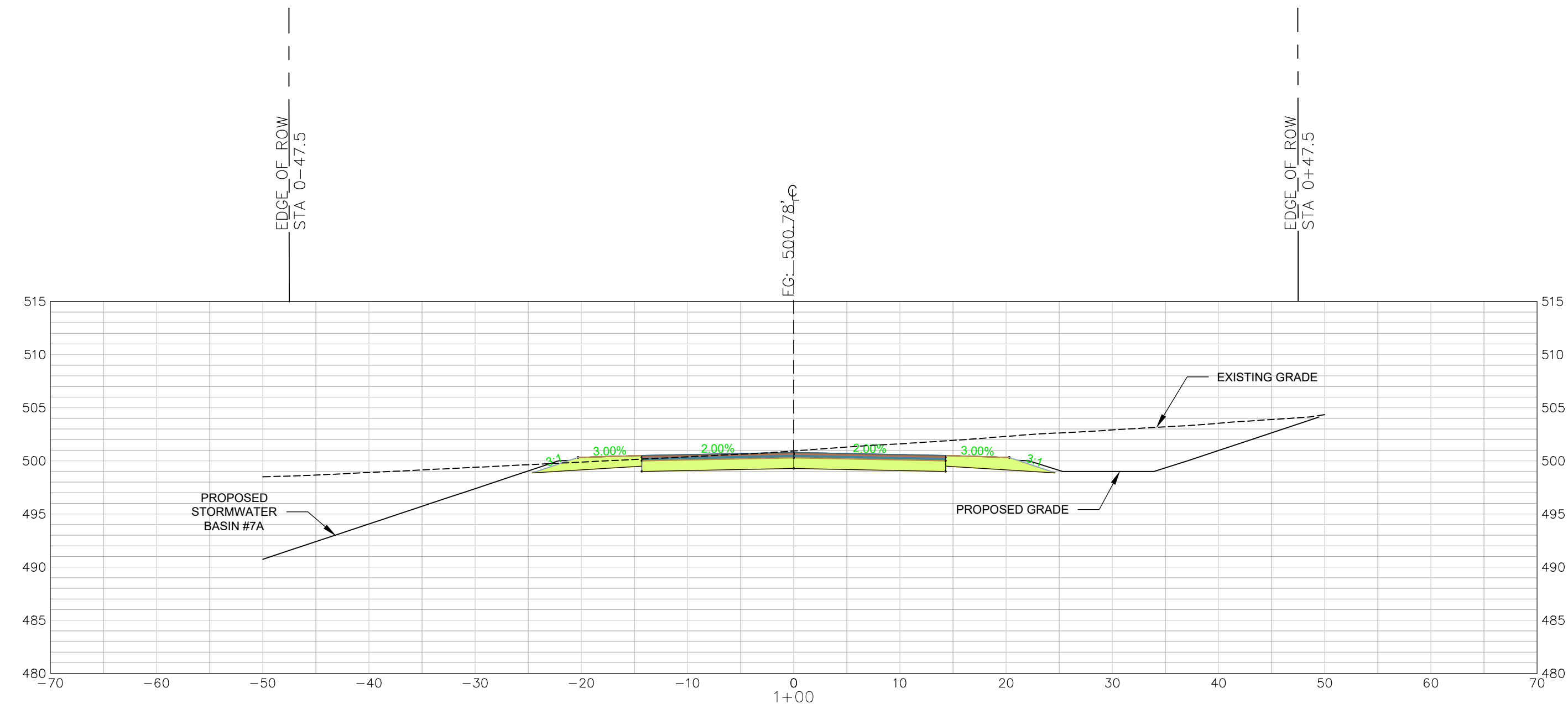
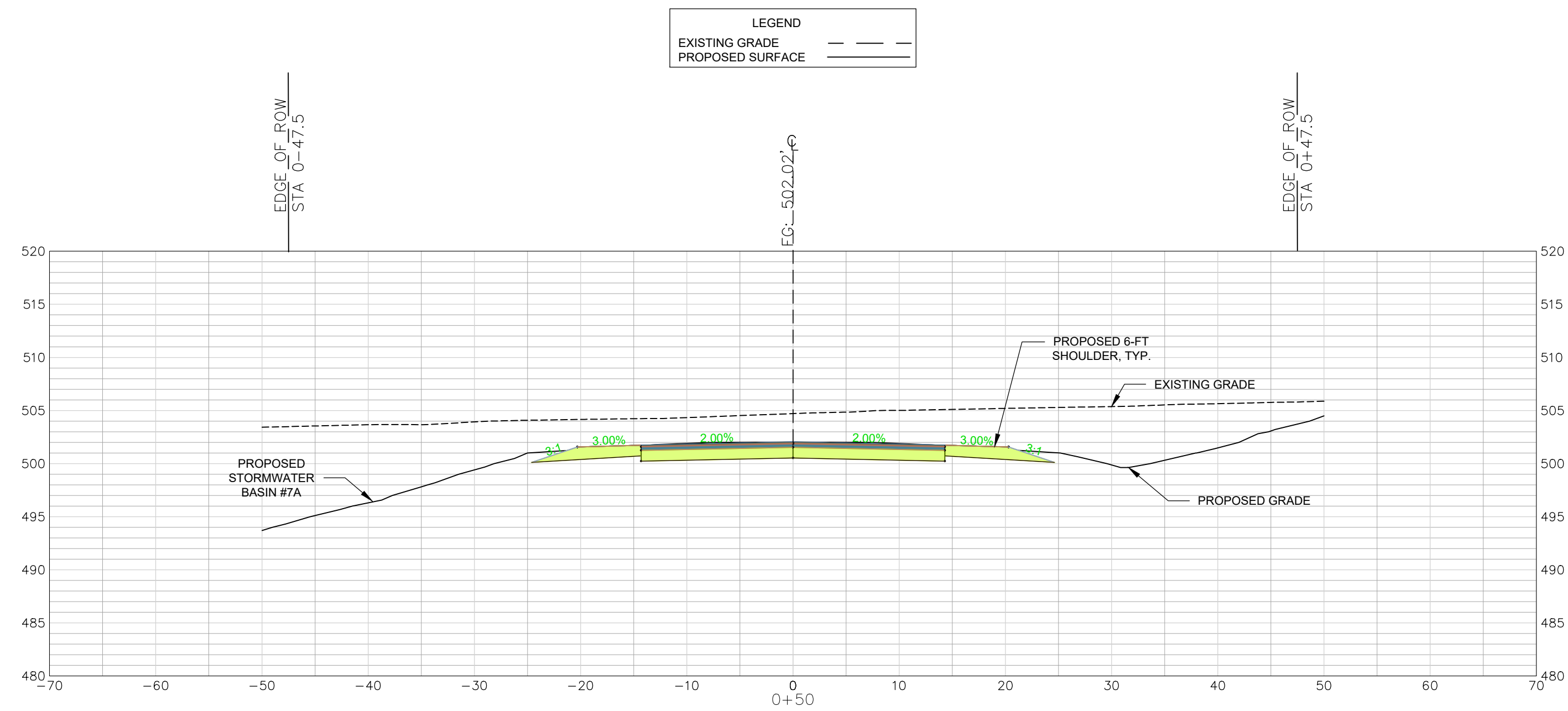
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 REFERENCE FILE: 22202-0013 BASE.dwg
 PROJECT NO.: 22202-0013

SHEET C4.1

DWG NO. 01.1648-D28

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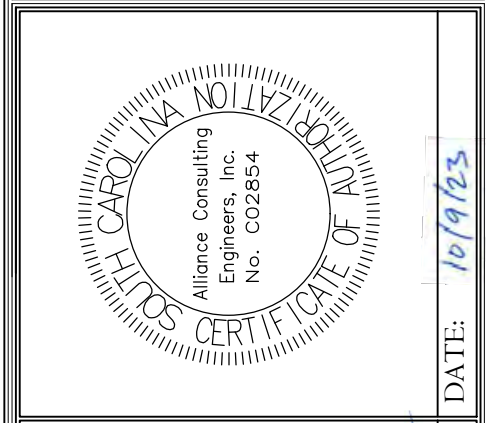
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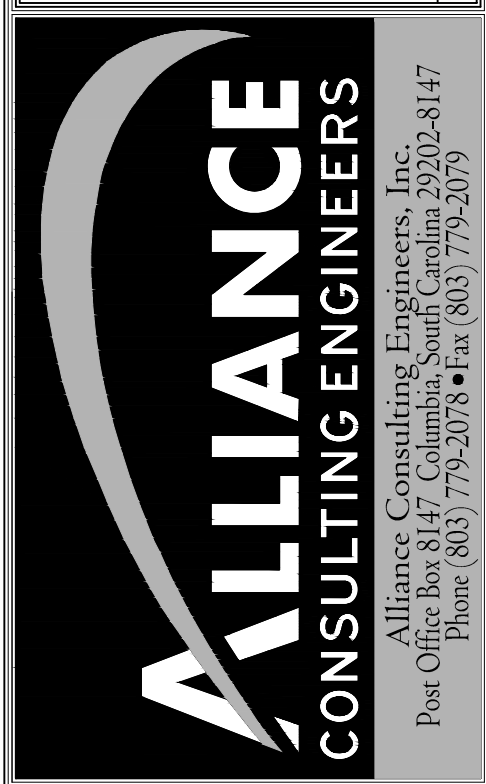
NORTH PARK LANE
CROSS SECTIONS 0+50 - 1+50
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

REVISION	
NO.	DATE

APPROVALS
ENGINEER BSW
DESIGNER BSW
TITLE ENGINEER JAH
CHECKED BY BSW
APPROVED BSW



DATE: 10/9/23
SIGNATURE: *Benjamin J. Haly*



SHEET
NORHT PARK LANE
CROSS SECTION
STA 0+50 TO 1+50
(SHEET 1 OF 10)
SCALE: 1" = 10'
DATE: SEPTEMBER 2023

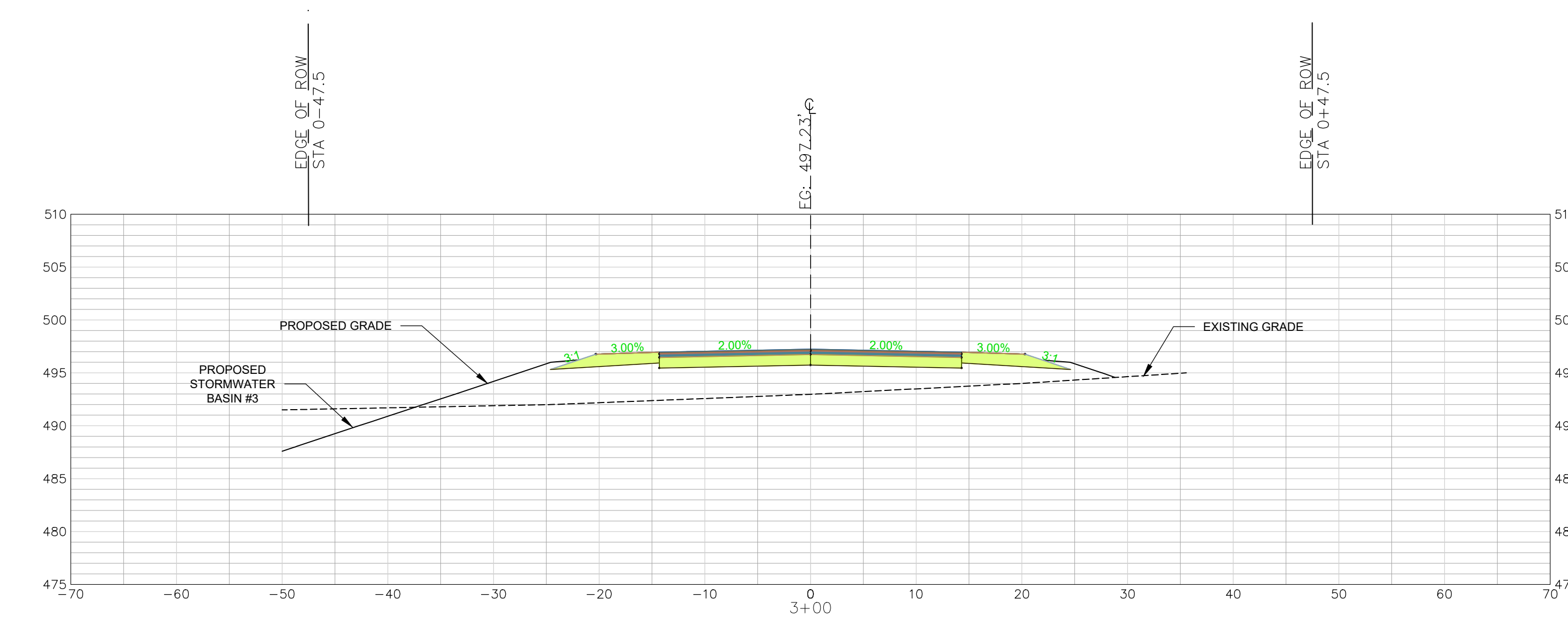
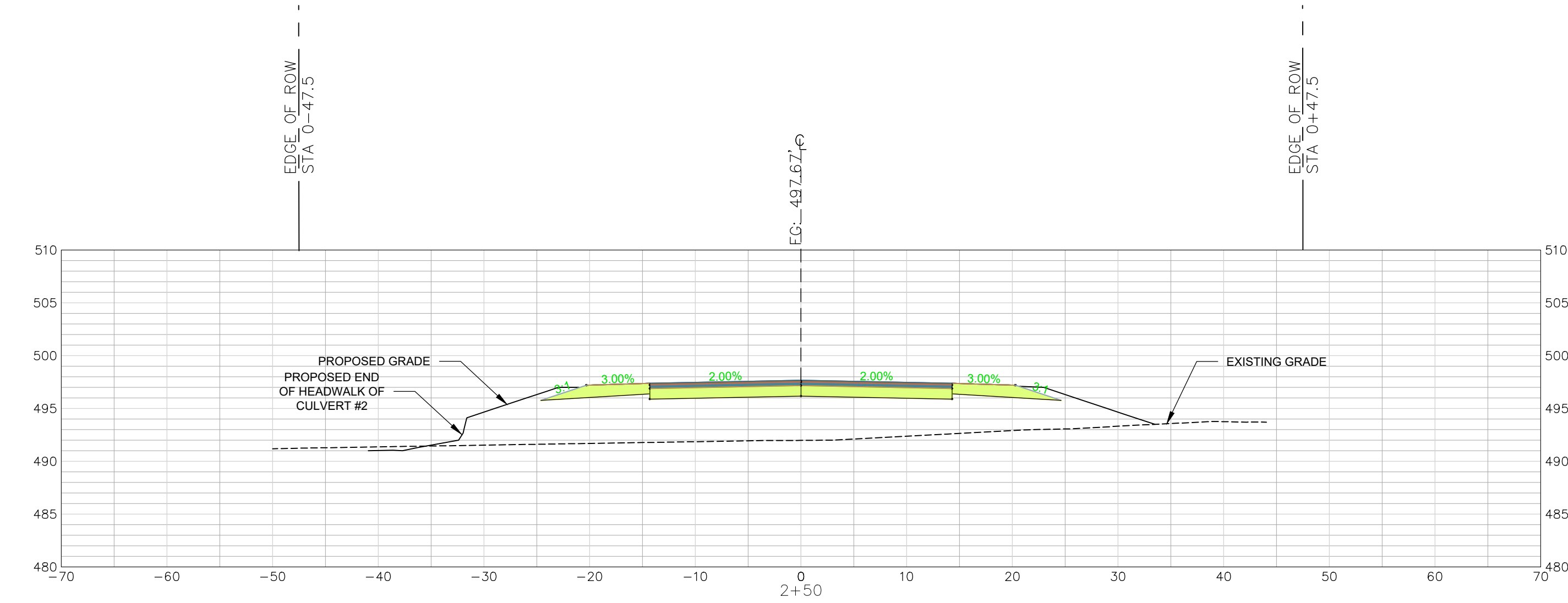
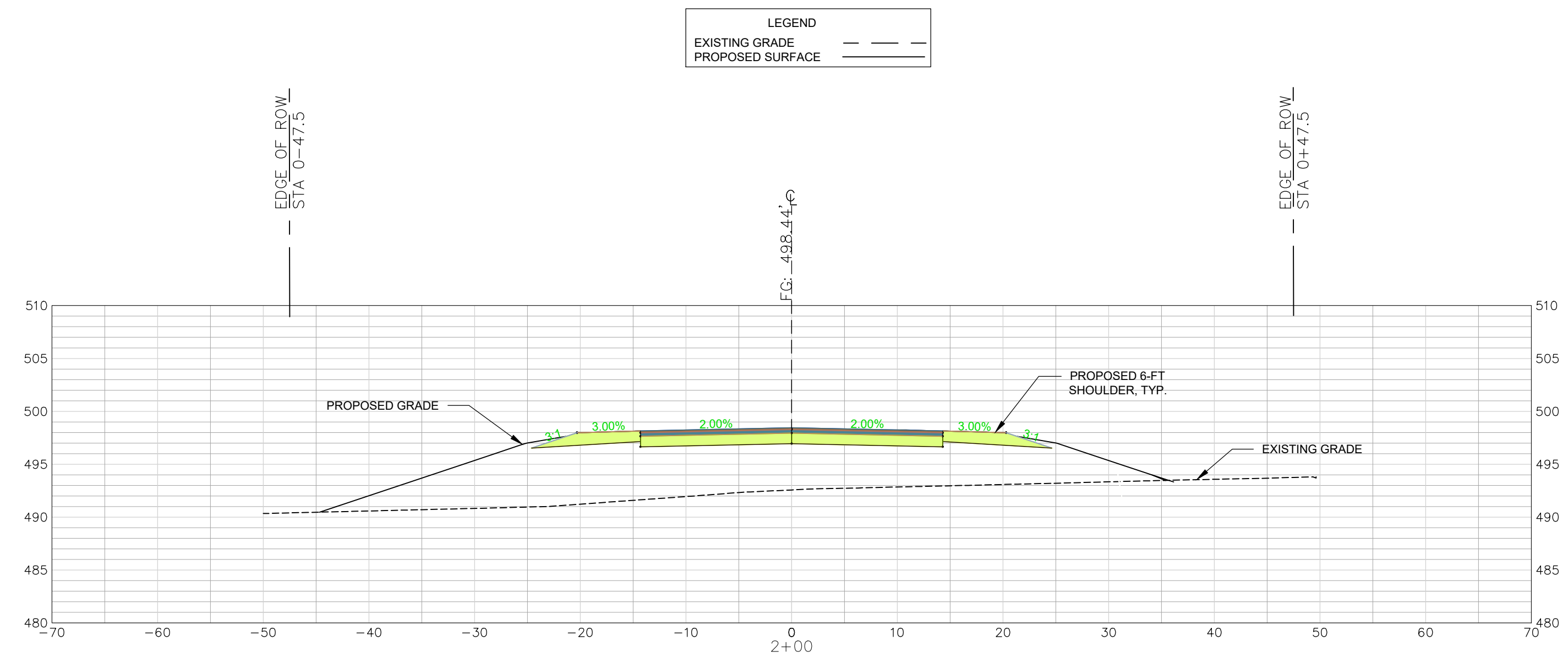
PROJECT
CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1.425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
C4.1.dwg
REFERENCE FILE:
22202-0013
BASE.dwg
PROJECT NO.
22202-0013
SHEET
C4.10

DWG NO. 01.1648-D28

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October 06, 2023 - 1:03:24 PM (S:\Projects\22202-0013 PH IIA Entrance Rwy Ex & Ph IB Secondary Rwy Lynchess Rv Ind Pk South Chesterfield Cddwg\Construction Plans\C4.1 Entrance Cross Section (1 of 6).dwg)

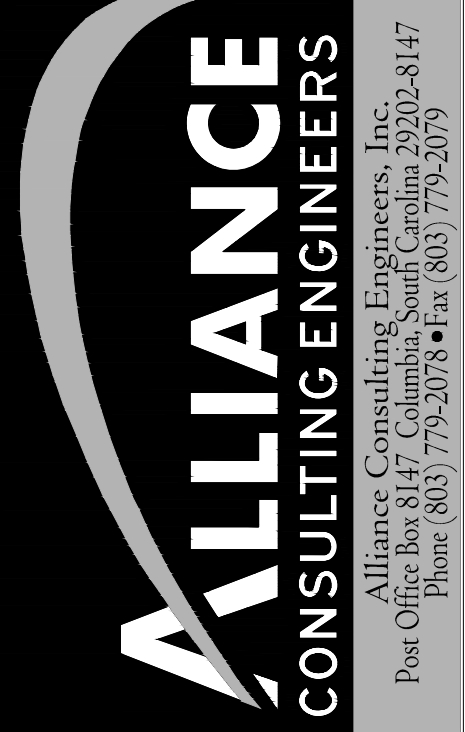
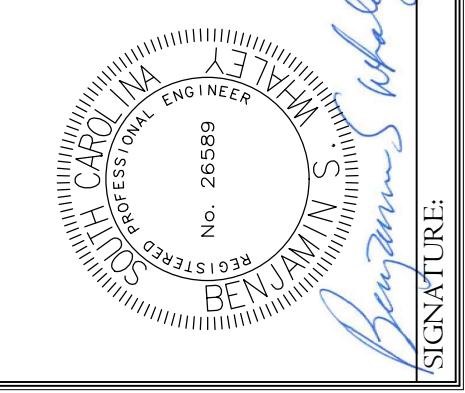
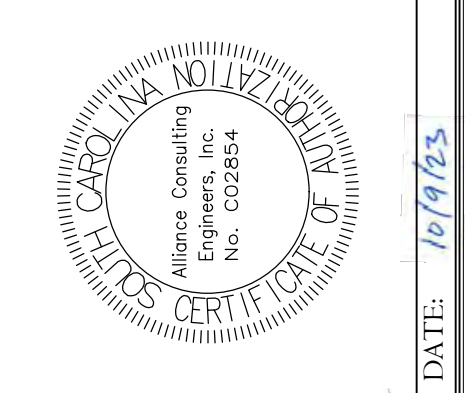


NORTH PARK LANE
CROSS SECTIONS 2+00 - 3+00
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

LEGEND	
EXISTING GRADE	---
PROPOSED SURFACE	---

REVISION DATE	

APPROVALS	
ENGINEER BSW	
DESIGNER BSW	
TITLE MANAGER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



PROJECT: CONSTRUCTION PLAN SET
± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

SHEET: NORTH PARK LANE CROSS SECTION STA 2+00 TO 3+00 (SHEET 2 OF 10)

DATE: SEPTEMBER 2023 SCALE: 1" = 10'

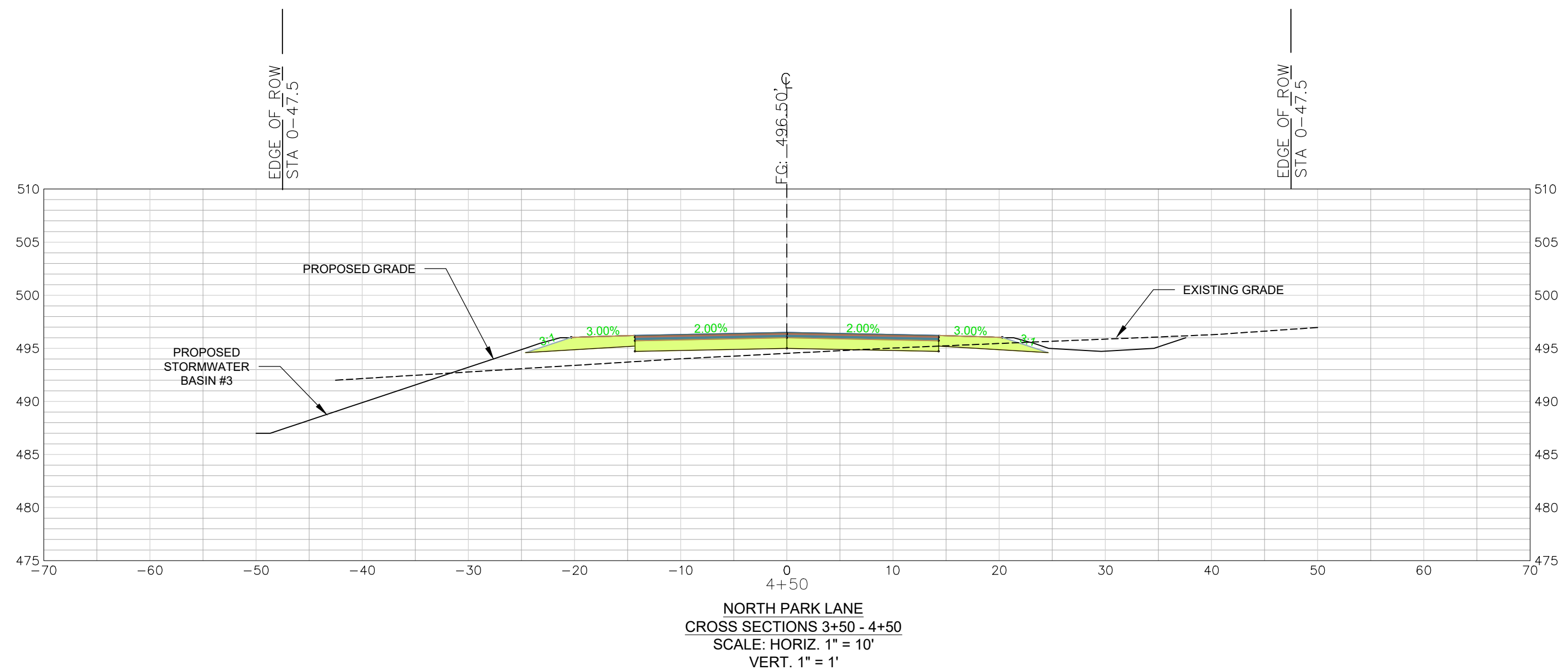
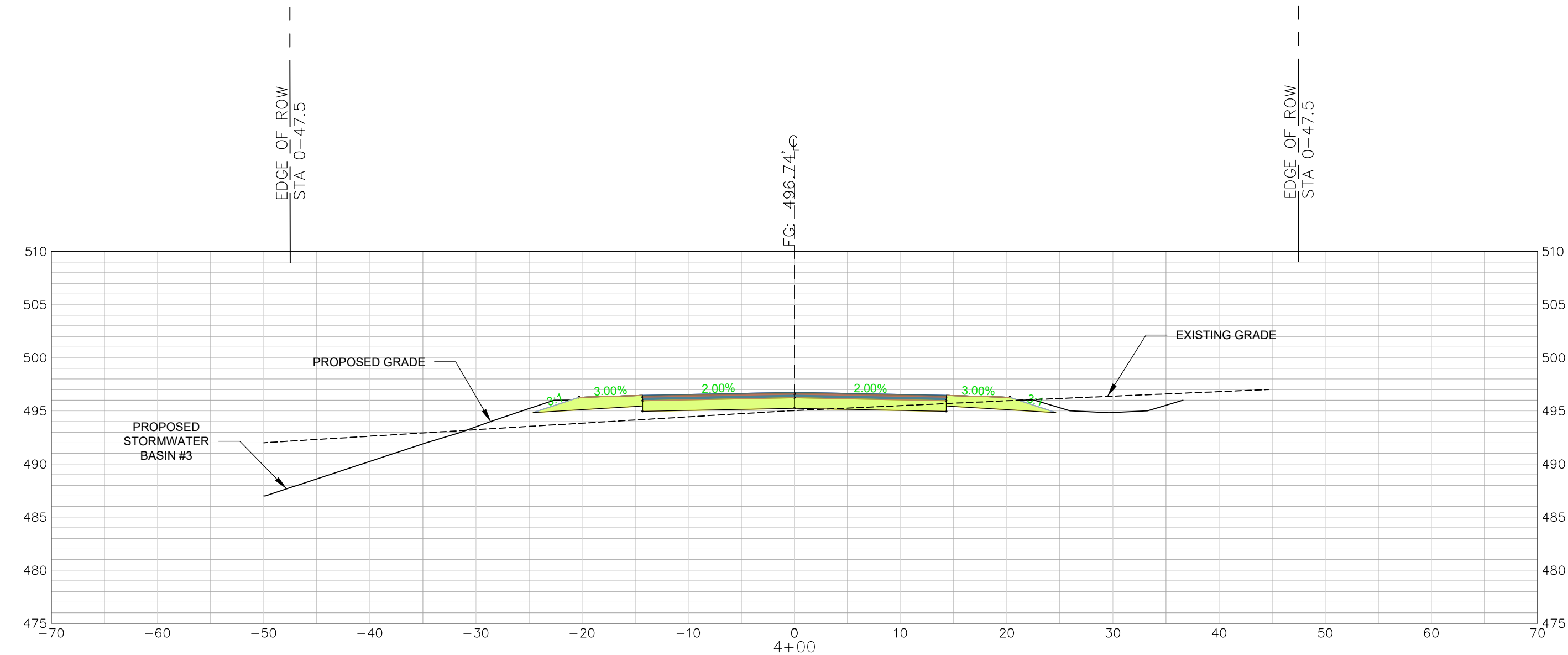
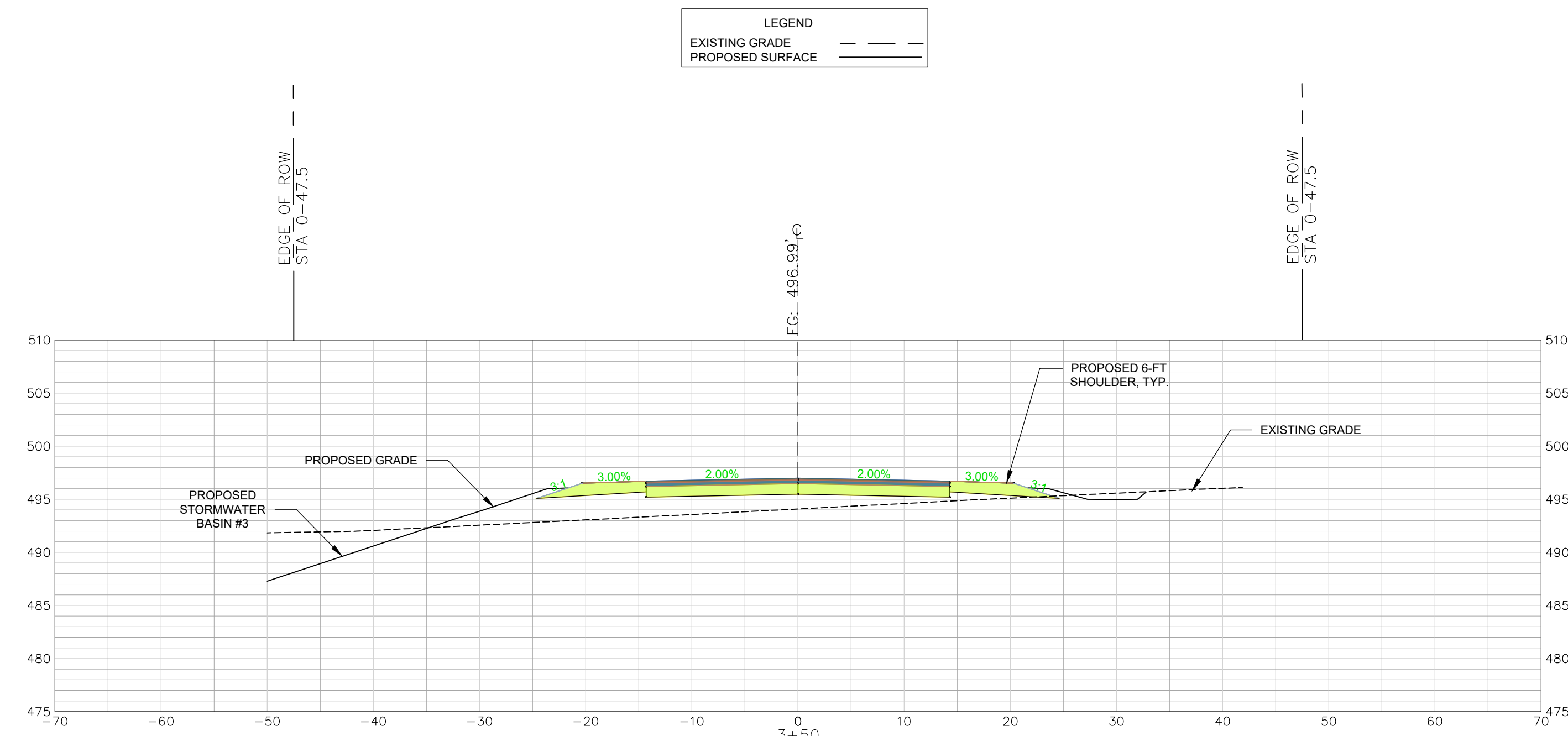
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PROJECT NO.: 22202-0013

SHEET C4.11

DWG NO. 01.1648-D28

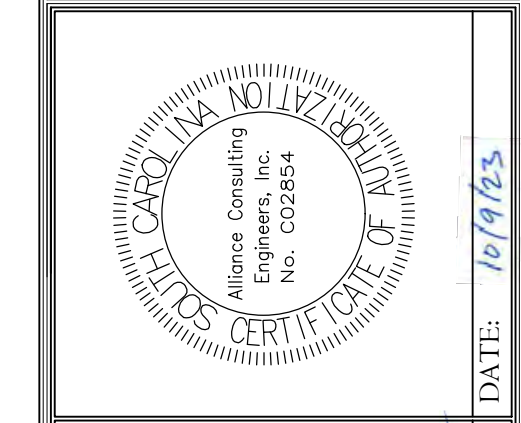
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October 06, 2023 - 1:04:08 PM S:\Projects\22202-0013 PH IA Entrance Rwy Ex & Ph IB Secondary Rwy Lynchess Rv Ind PK South Chesterfield Cdwg\Construction Plans\Construction Plans C4.1 Entrance Cross Section (1 of 6).dwg



REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE ENGINEER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



SIGNATURE: *Benjamin S. Whaley*



SHEET: NORTH PARK LANE CROSS SECTION STA 3+50 TO 4+50 (SHEET 3 OF 10) SCALE: 1" = 10'

PROJECT: CONSTRUCTION PLAN SET ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

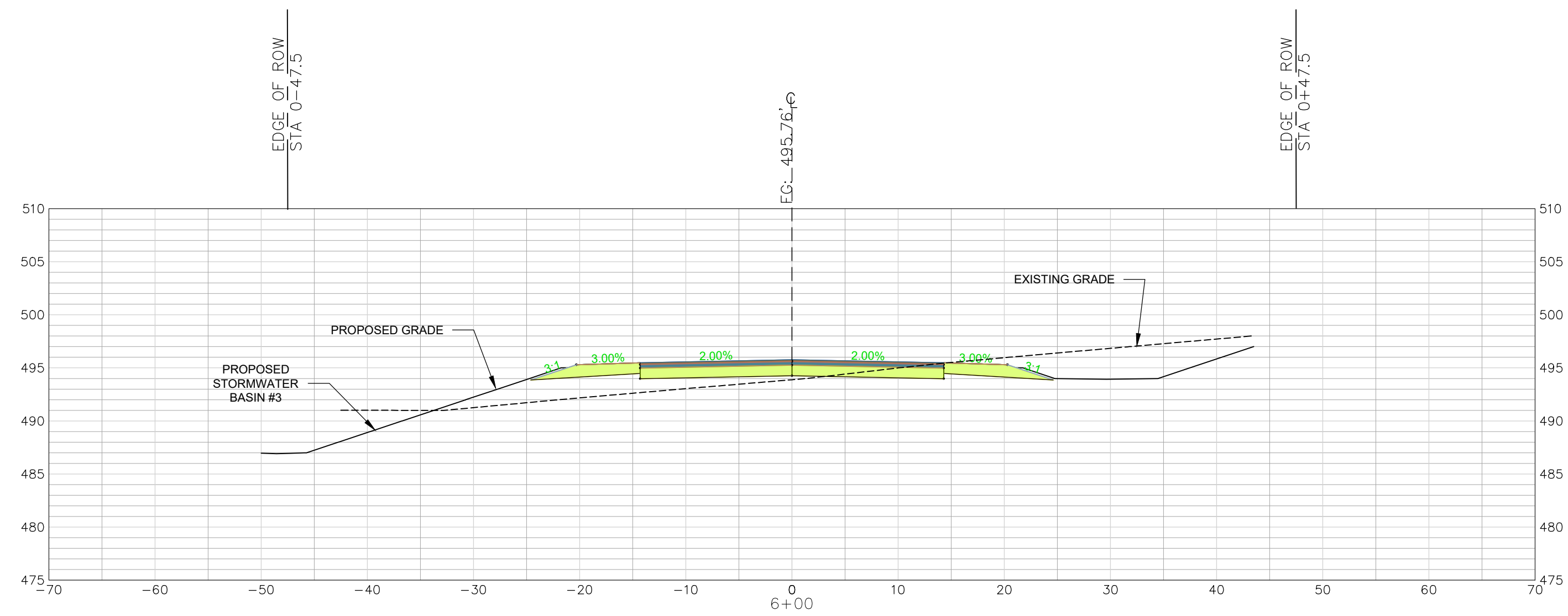
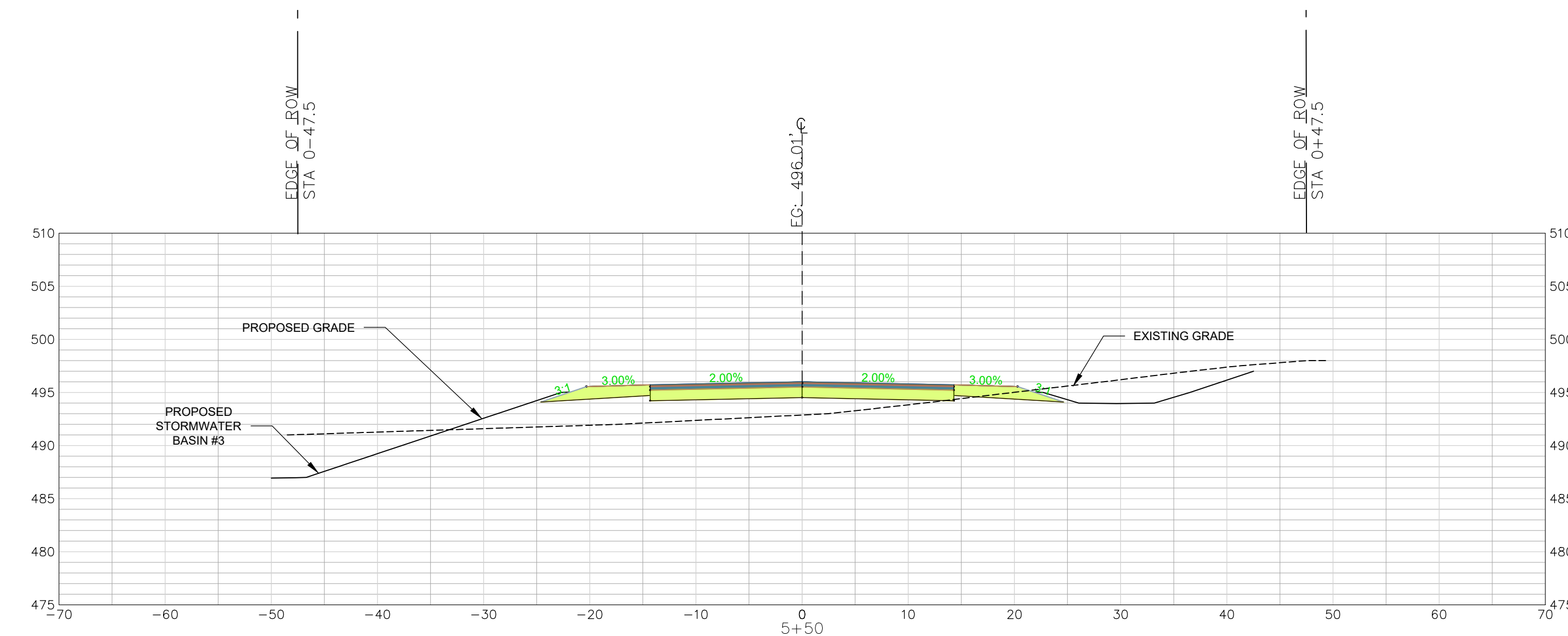
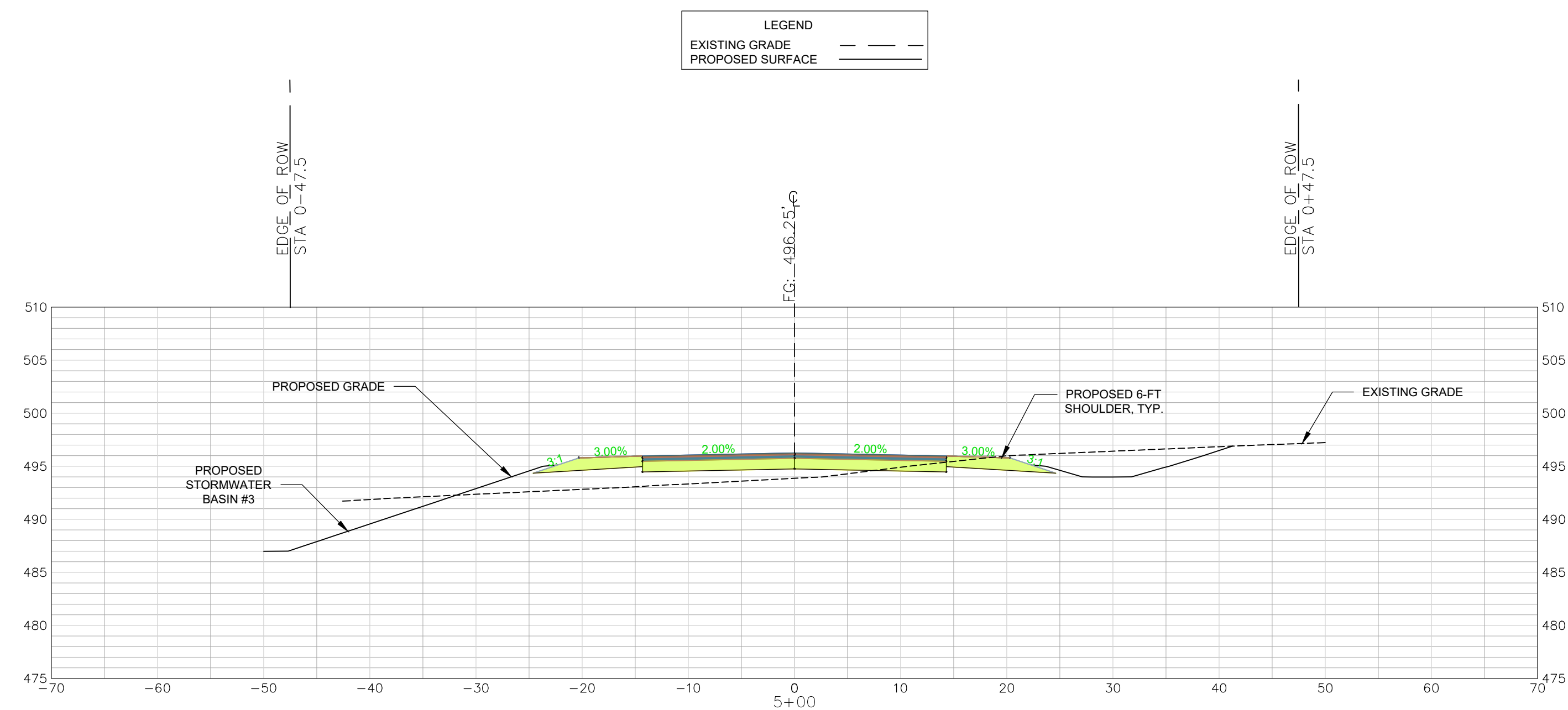
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 PROJECT NO.: 22202-0013

SHEET C4.12

DWG NO. 01.1648-D28

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October 06, 2023 - 1:04:40 PM (S:\Projects\22202-0013 PH IA Entrance Rwy Ex & Ph IB Secondary Rwy Lynchess Rv Ind Pk South Chesterfield Cdwg)\Construction Plans\C4.1 Entrance Cross Section (1 of 6).dwg

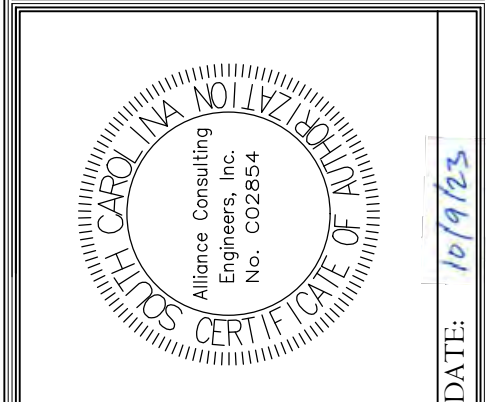


NORTH PARK LANE
CROSS SECTIONS 5+00 - 6+00
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

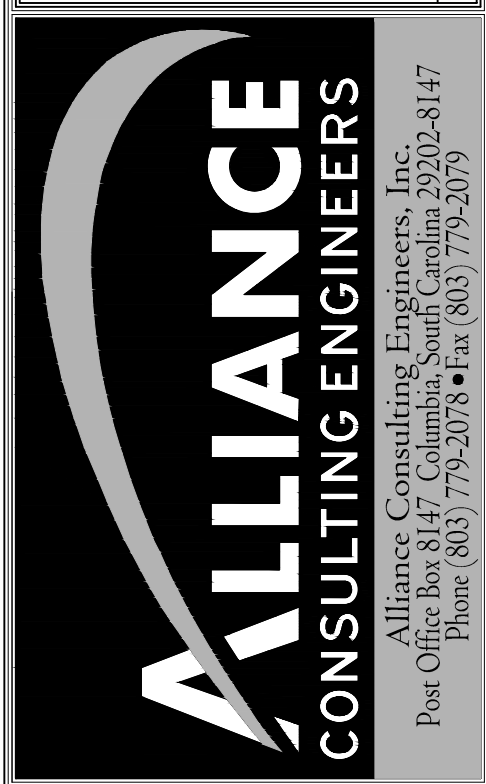
LEGEND
EXISTING GRADE - - - -
PROPOSED SURFACE ————

REVISION DATE	

APPROVALS
ENGINEER BSW
DESIGNER BSW
TITLE MANAGER JAH
CHECKED BY BSW
APPROVED BY BSW



DATE: 10/9/23
SIGNATURE: *Benjamin J. Hagan*



SHEET
NORTH PARK LANE
CROSS SECTION
STA 5+00 TO 6+00
(SHEET 4 OF 10)
SCALE: 1" = 10'
DATE: SEPTEMBER 2023

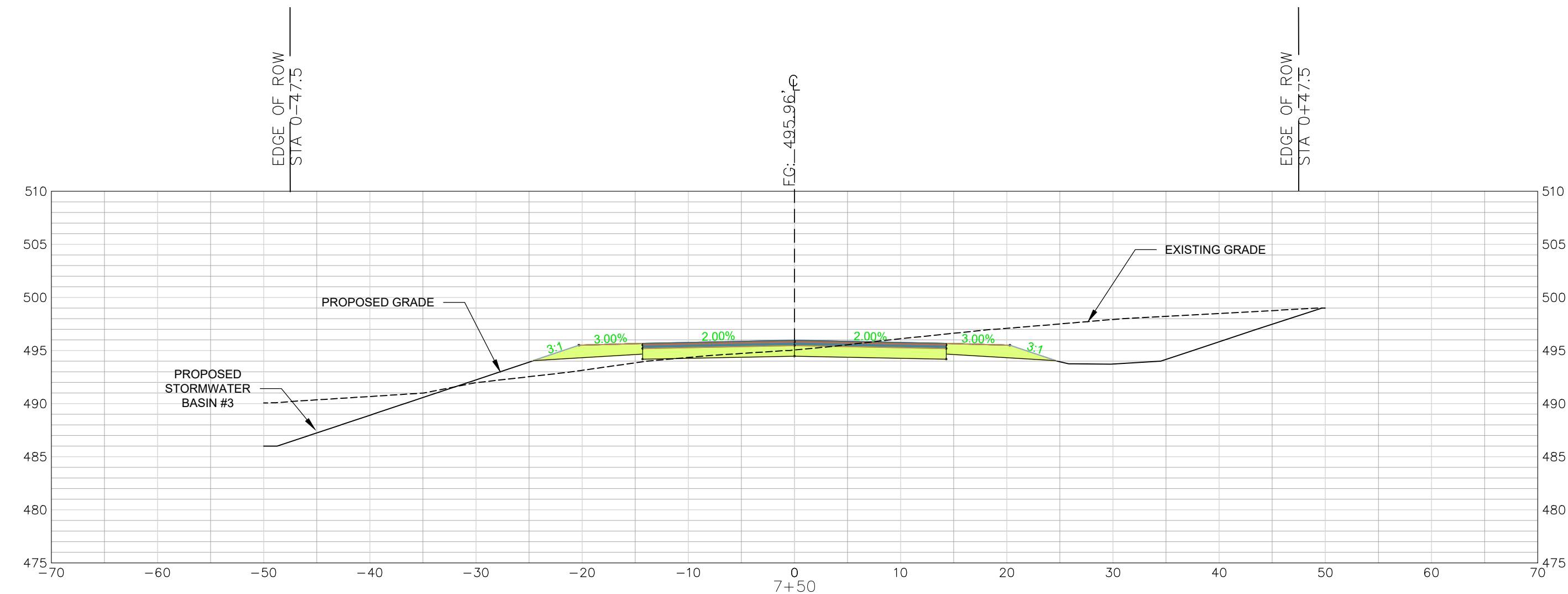
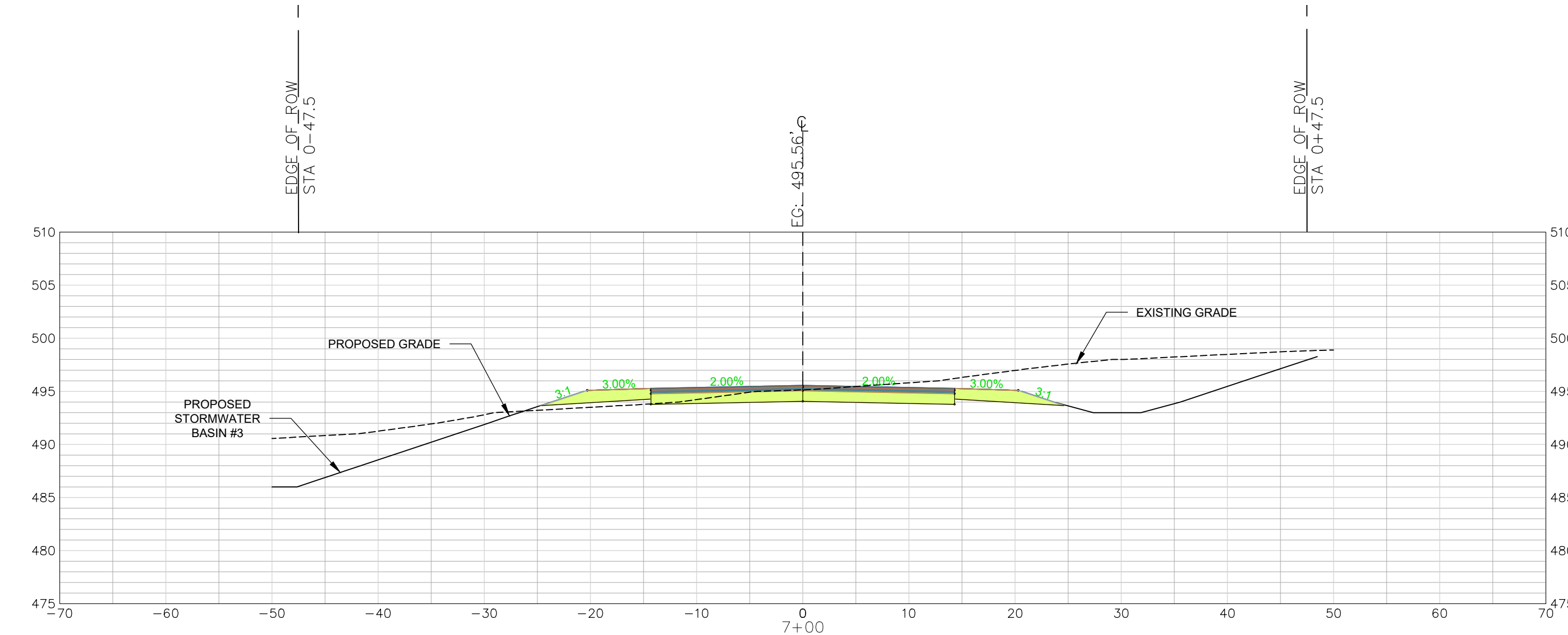
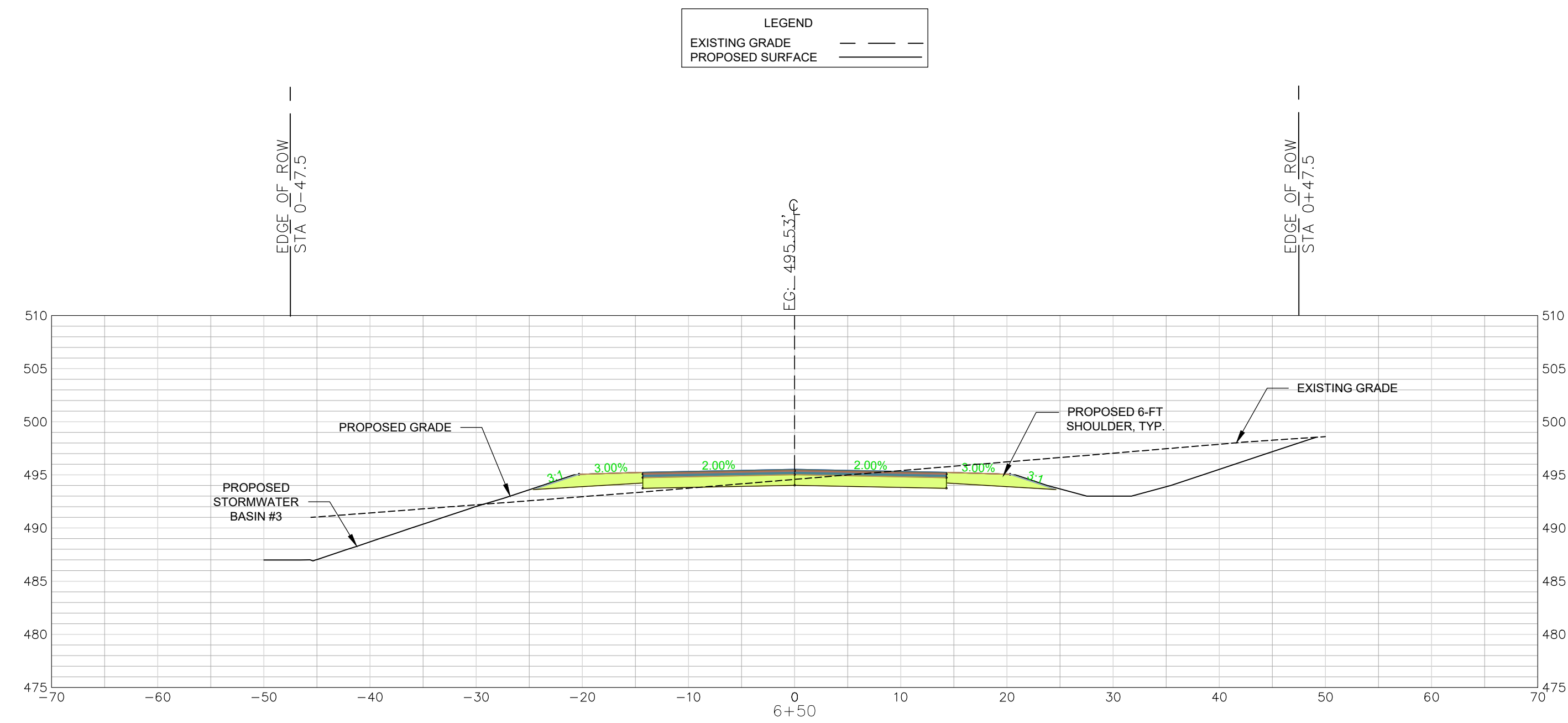
PROJECT
CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.1.dwg	SHEET C4.13
REFERENCE FILE: 22202-0013 BASE.dwg	
PROJECT NO. 22202-0013	

DWG NO. 01.1648-D28

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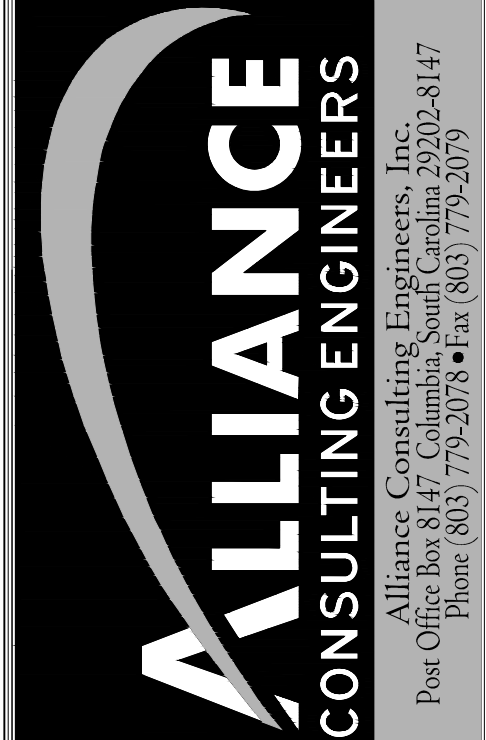
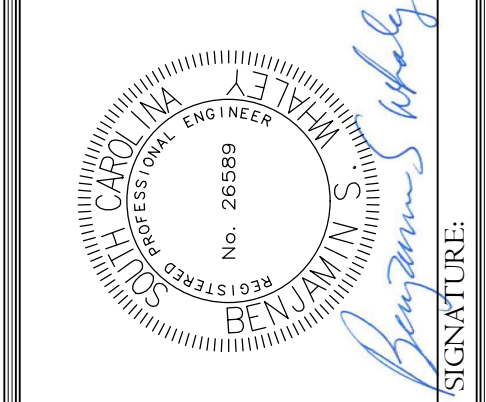
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NORTH PARK LANE
CROSS SECTIONS 6+50 - 7+50
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE MANAGER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



SHEET
NORTH PARK LANE
CROSS SECTION
STA 6+50 TO 7+50
(SHEET 5 OF 10)
SCALE: 1" = 10'
DATE: SEPTEMBER 2023

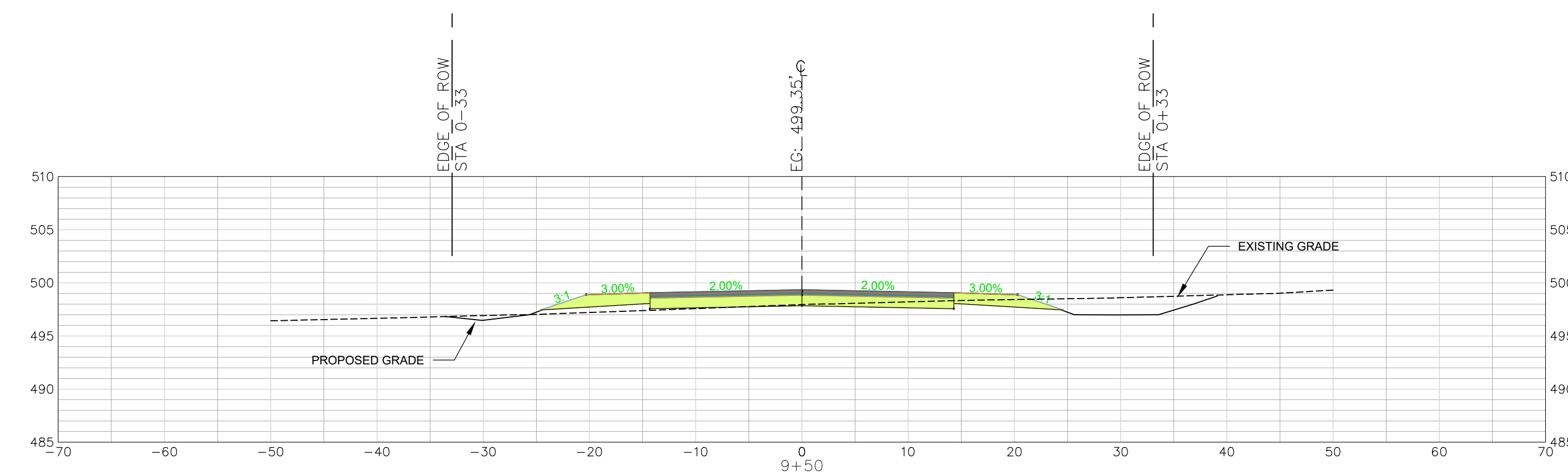
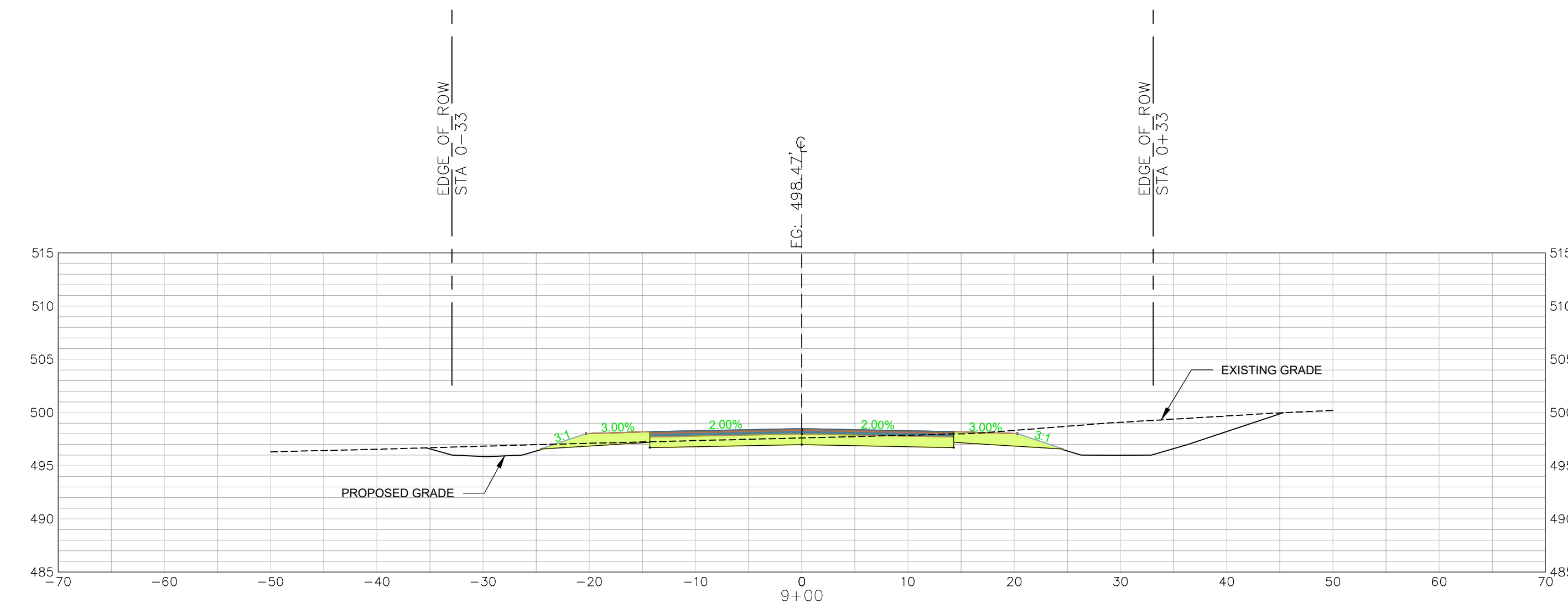
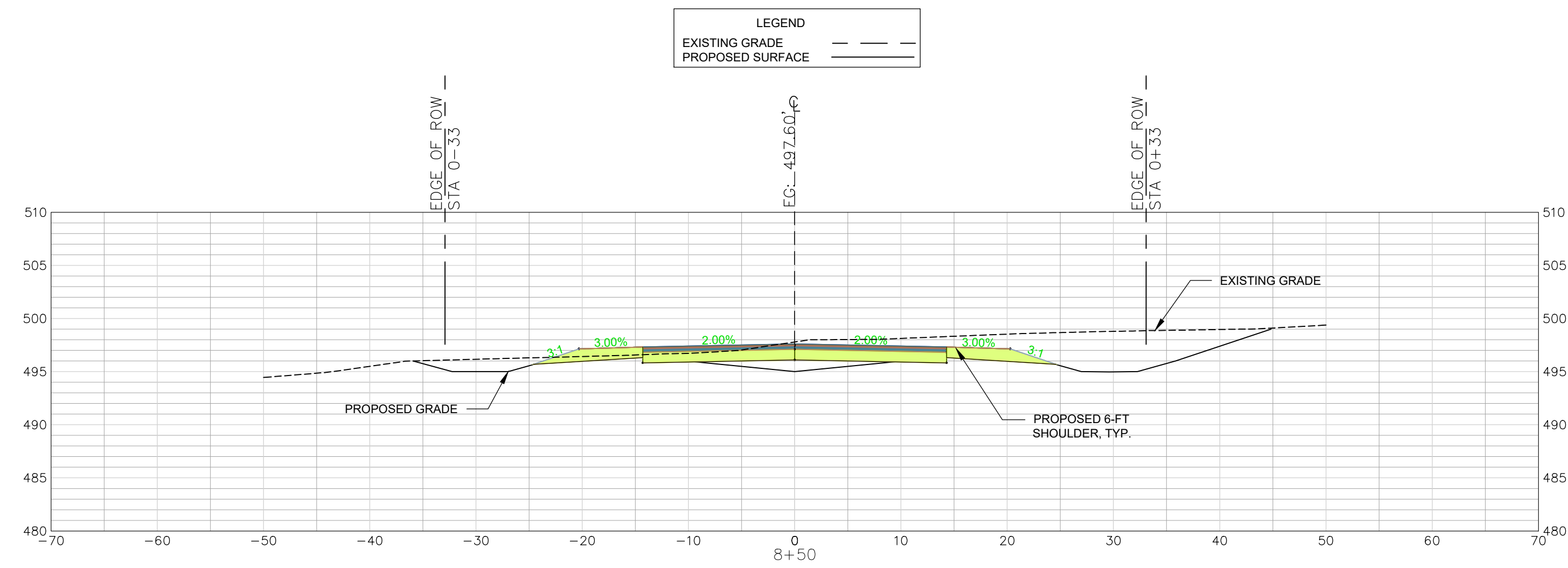
PROJECT
CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1.425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.1.dwg	SHEET C4.14
REFERENCE FILE: 22202-0013 BASE.dwg	
PROJECT NO. 22202-0013	

DWG NO. 01.1648-D28

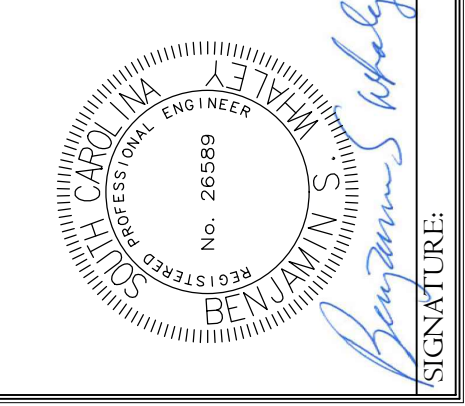
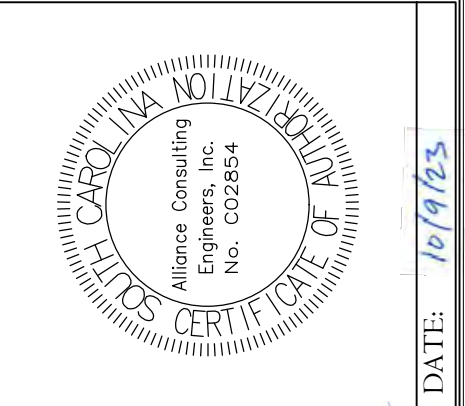
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October 06, 2023 - 1:05:50 PM S:\Projects\22202-0013 PH IA Entrance Rwy Ex & Ph IB Secondary Rwy Lynchess Rv Ind Pk South Chesterfield Cddwg\Construction Plans\Construction Plans C4.1 Entrance Cross Section (1 of 4).dwg



NORTH PARK LANE
CROSS SECTIONS 8+50 - 9+50
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

APPROVALS	REVISION DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE MANAGER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



PROJECT
CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1.425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

SHEET
NORTH PARK LANE
CROSS SECTION
STA 8+50 TO 9+50
(SHEET 7 OF 10)

DATE: SEPTEMBER 2023
SCALE: 1" = 10'

FILE NAME:
C4.0.dwg

REFERENCE FILE:
22202-0013
BASE.dwg

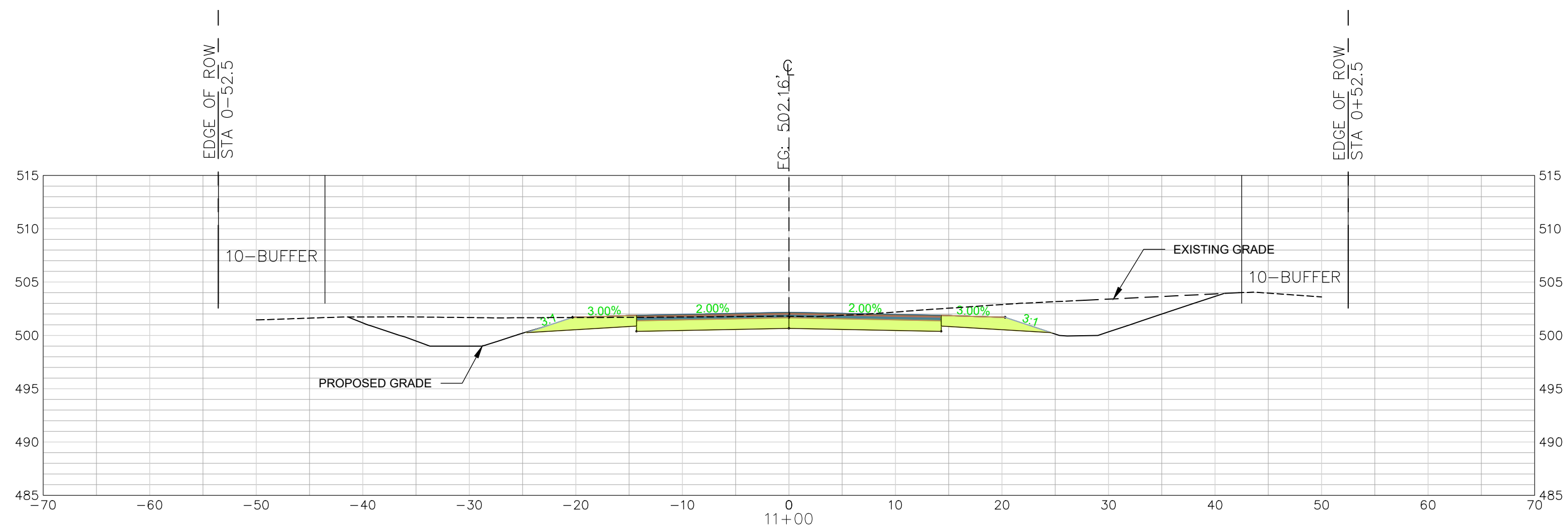
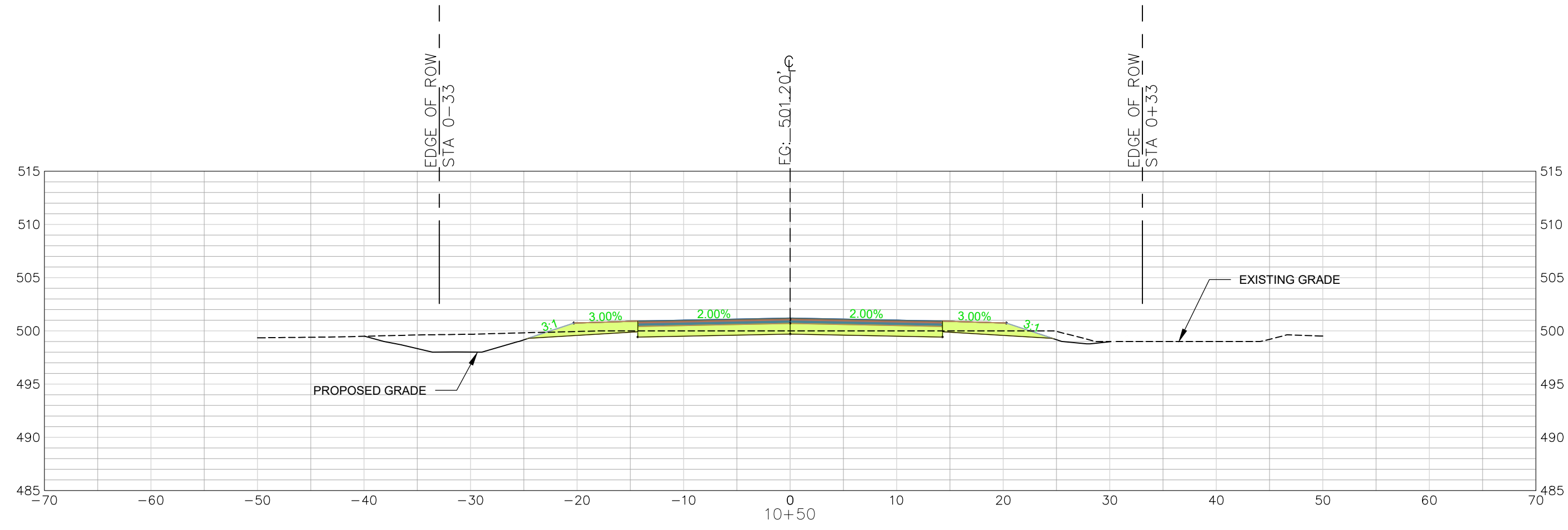
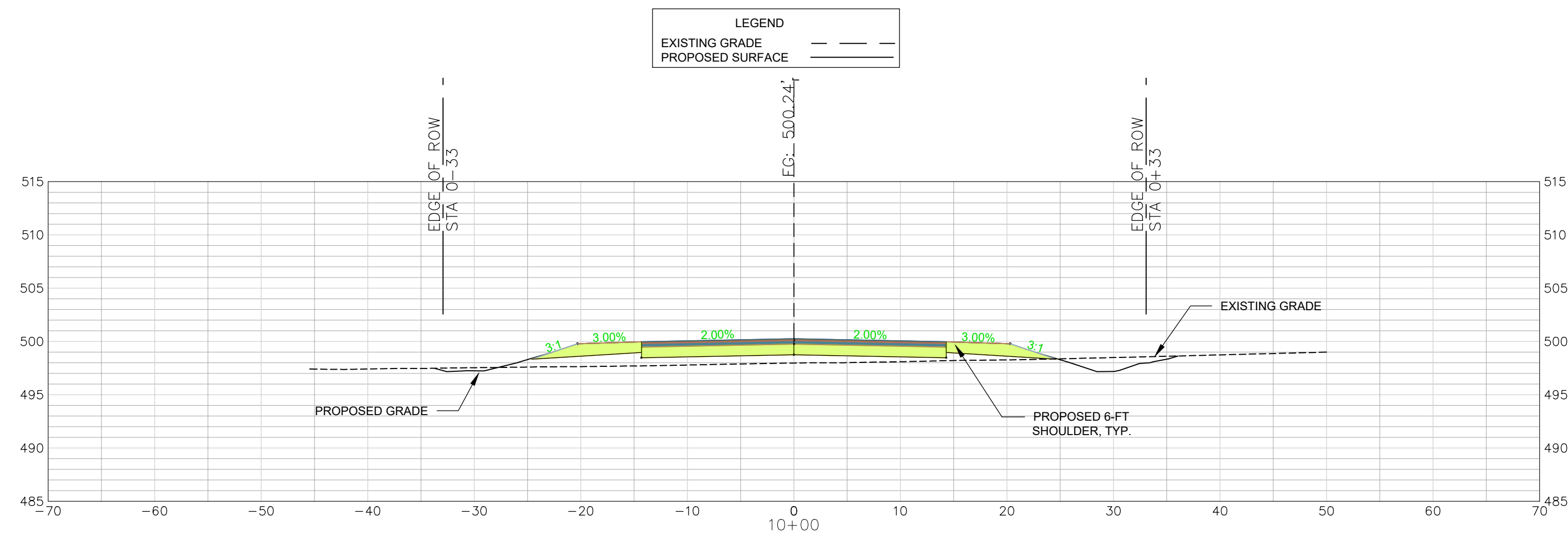
PROJECT NO.:
22202-0013

SHEET
C4.16

DWG NO. 01.1648-D28

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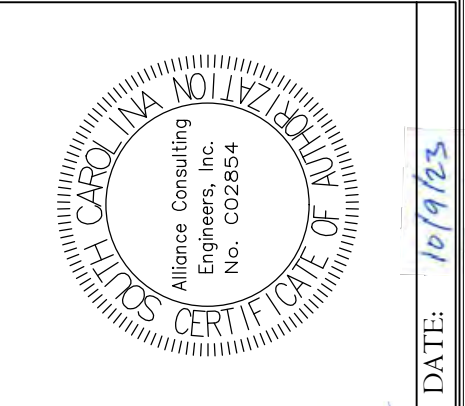
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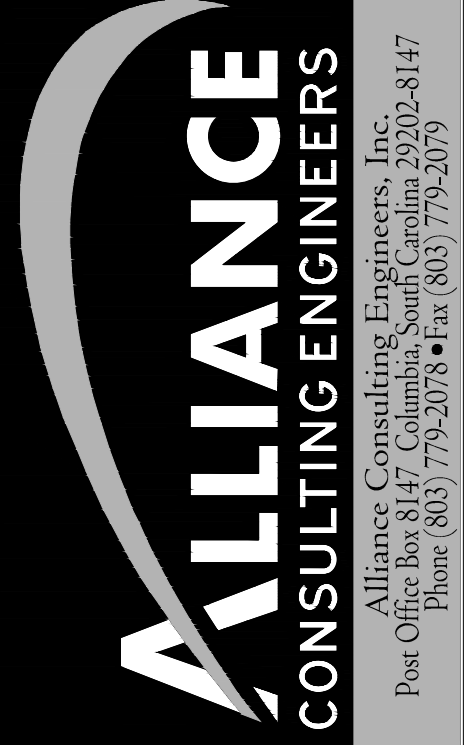
NORTH PARK LANE
CROSS SECTIONS 10+00 - 11+00
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

REVISION DATE	

APPROVALS
ENGINEER BSW
DESIGNER BSW
TITLE ENGINEER JAH
CHECKED BY BSW
APPROVED BSW



DATE: 10/9/23
SIGNATURE: *Benjamin S. Whaley*



PROJECT: NORTH PARK LANE CROSS SECTION STA 10+00 TO 11+00 (SHEET 8 OF 10)
SHEET: 8 OF 10
DATE: SEPTEMBER 2023
SCALE: 1" = 10'

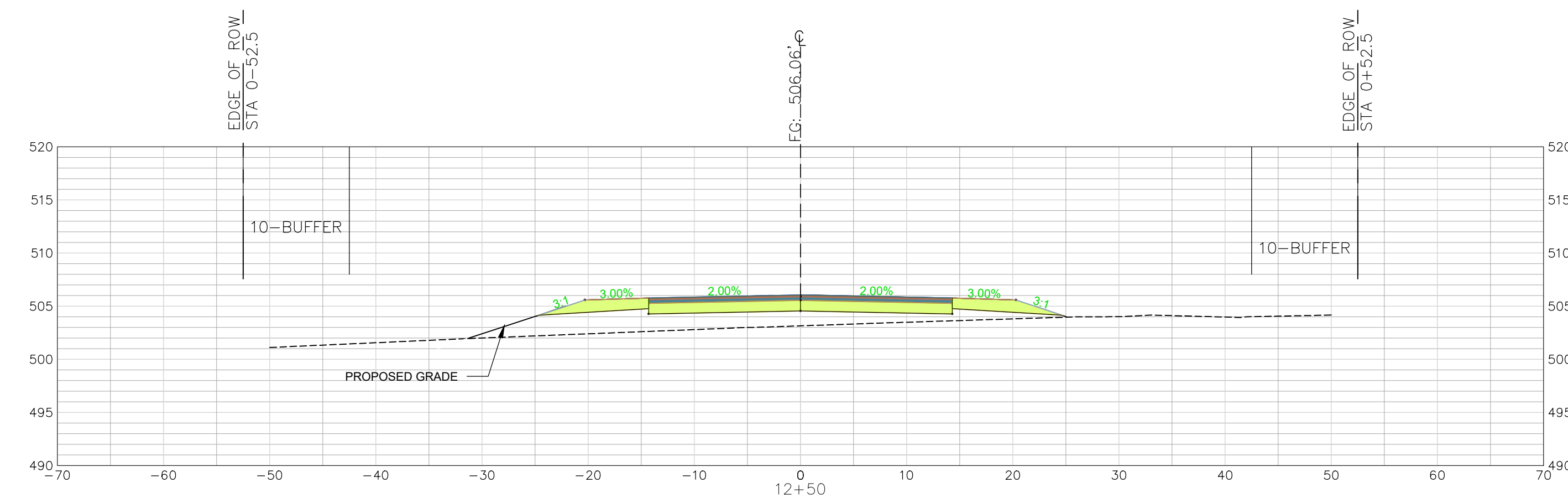
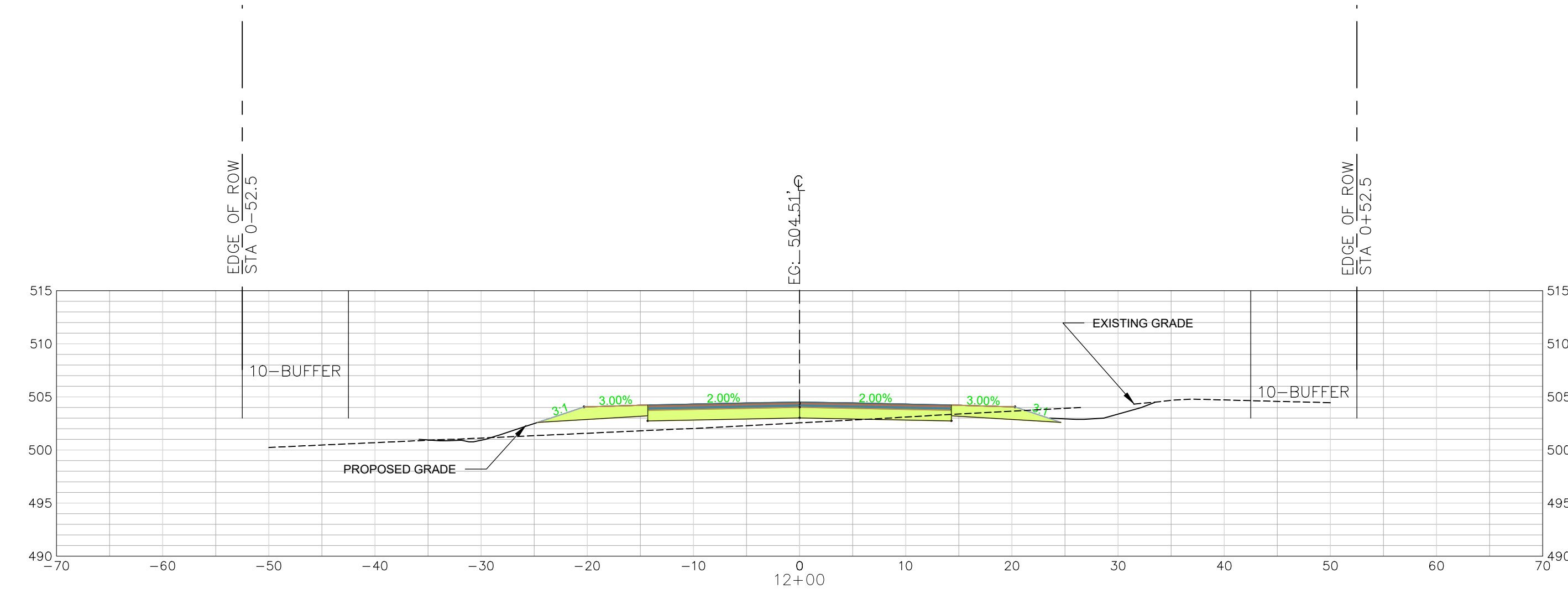
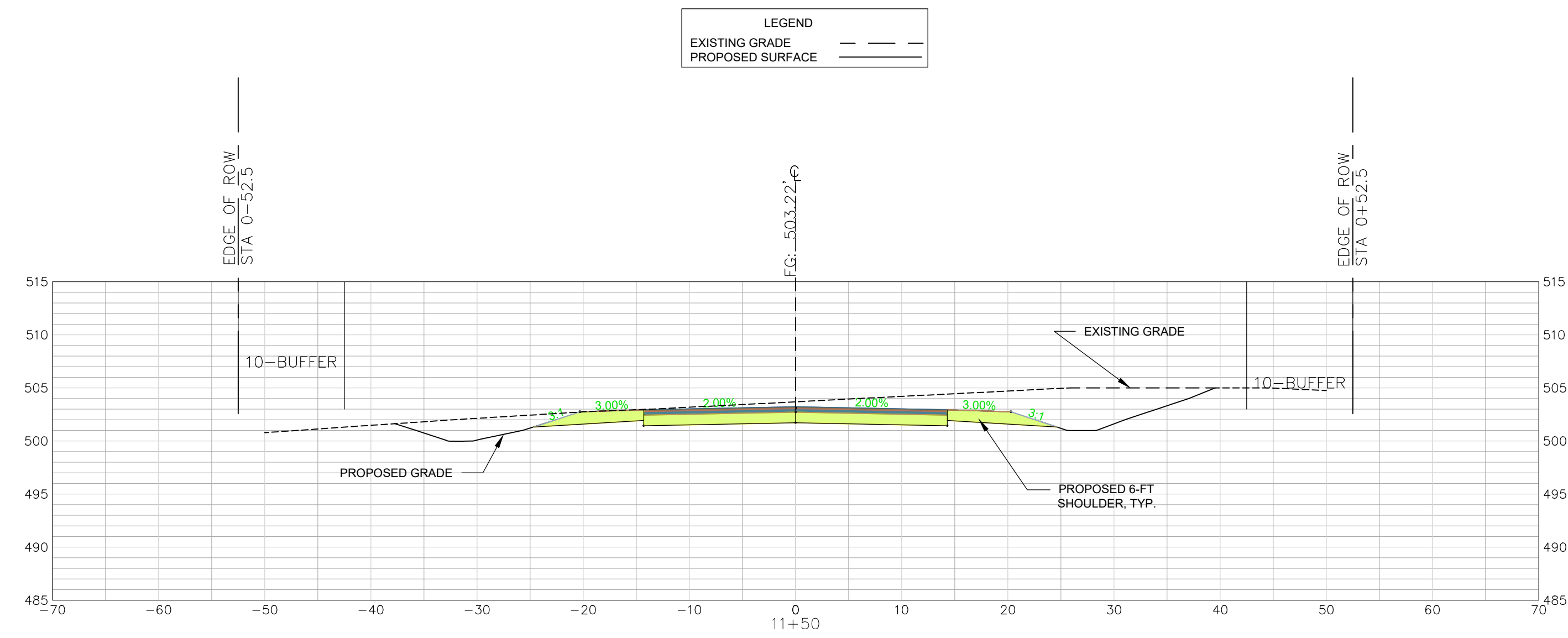
CONSTRUCTION PLAN SET
± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.0.dwg
REFERENCE FILE: 22202-0013 BASE.dwg
PROJECT NO.: 22202-0013
SHEET: C4.17

DWG NO. 01.1648-D28

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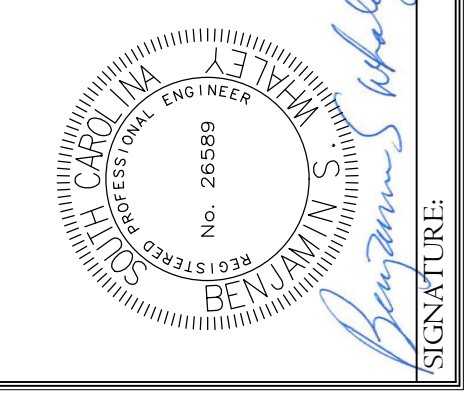
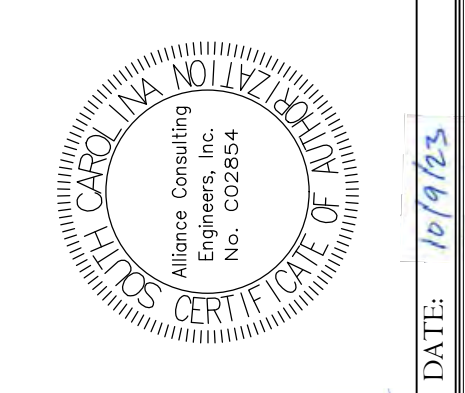
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NORTH PARK LANE
 CROSS SECTIONS 11+50 - 12+50
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 1'

REVISION DATE	

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ENGINEER BSW	
DESIGNER BSW	
TITLE ENGINEER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



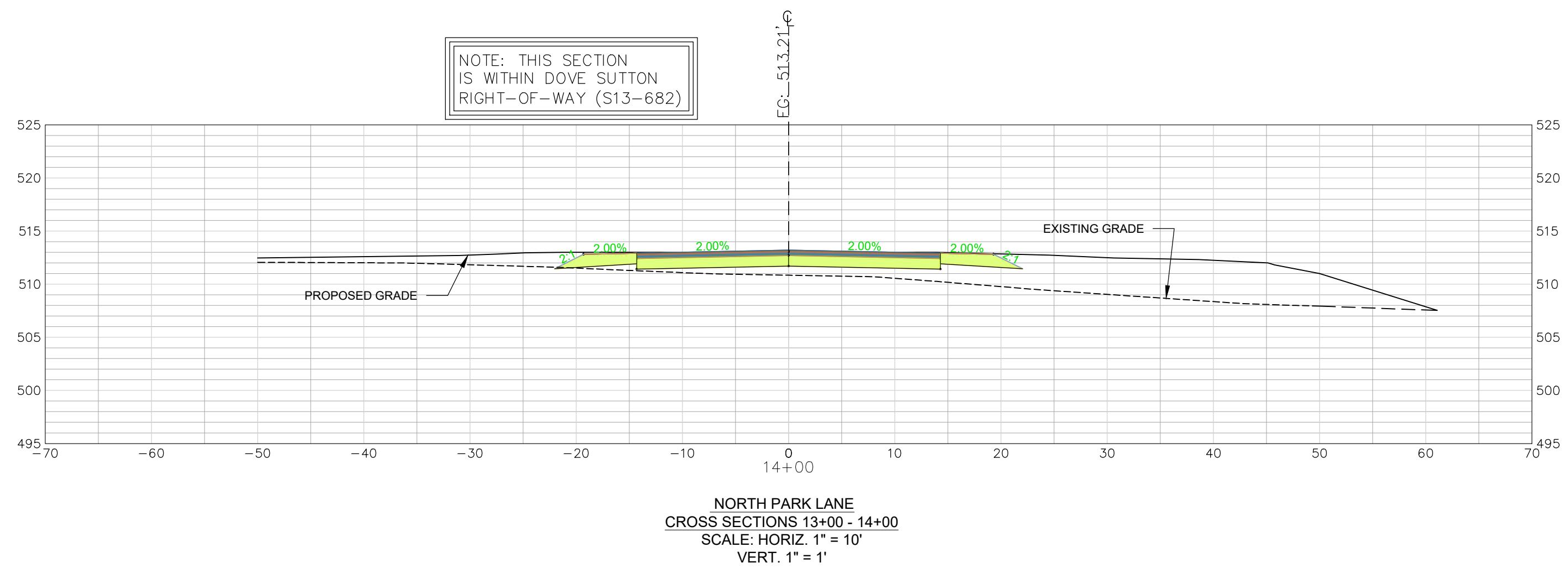
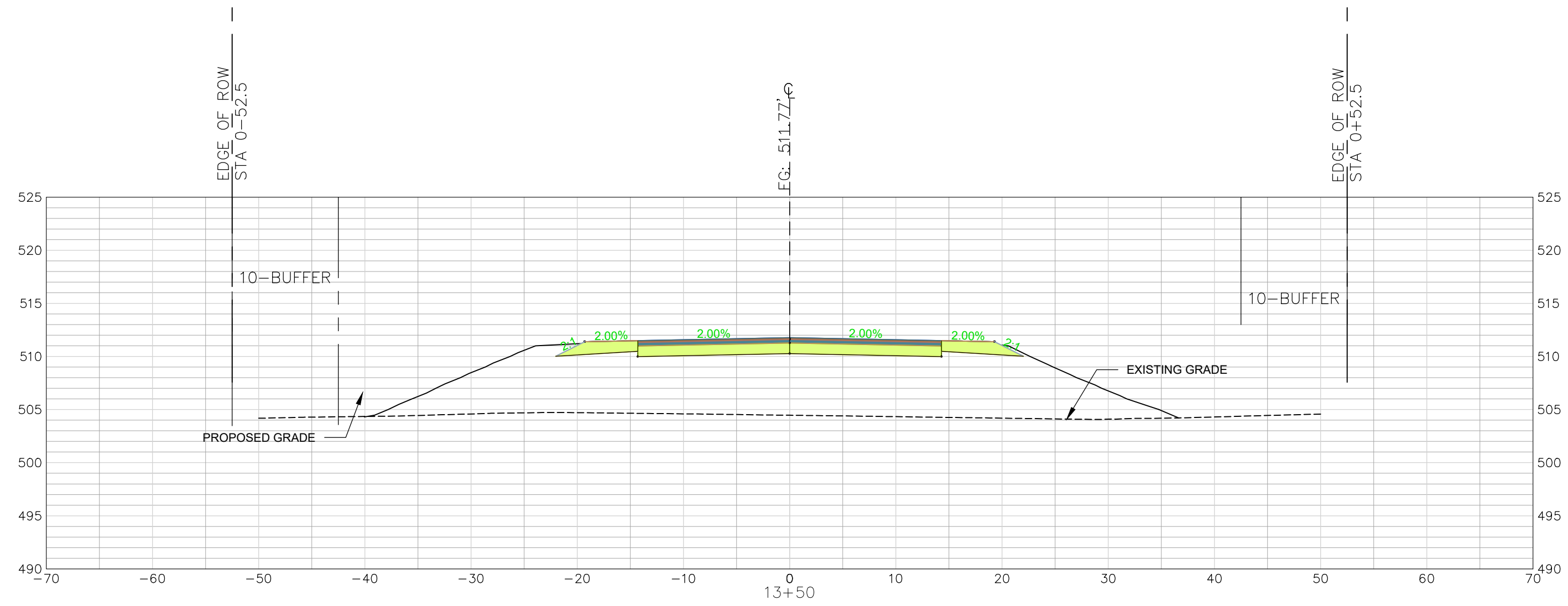
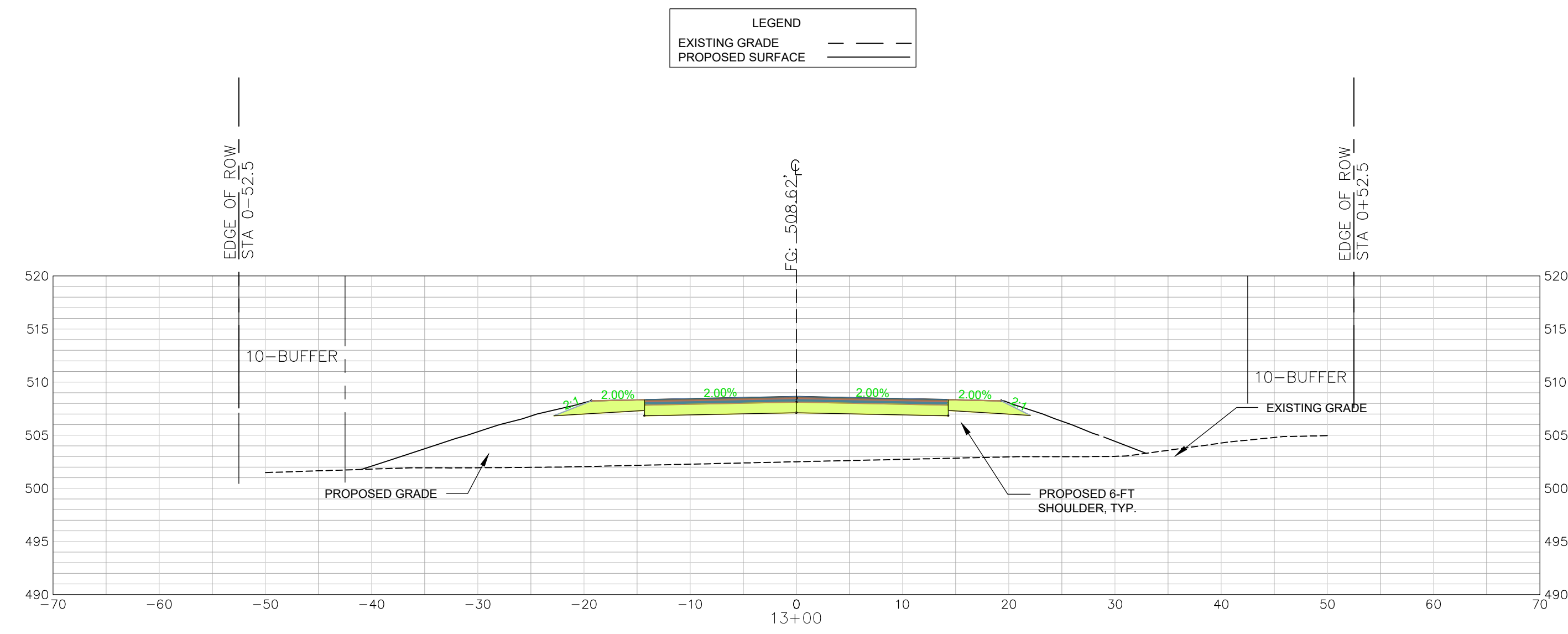
SHEET
 NORTH PARK LANE
 CROSS SECTION
 STA 11+50 TO 12+50
 (SHEET 9 OF 10)
 DATE: SEPTEMBER 2023
 SCALE: 1" = 10'

PROJECT
 CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL
 PARK LANE AND ± 1.425-LF OF
 NORTH PARK LANE AT THE ±
 139-ACRE LYNCHES RIVER
 INDUSTRIAL PARK OFF DOVE
 SUTTON ROAD NEAR
 THE TOWN OF PAGELAND
 CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
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 PROJECT NO.
 22202-0013

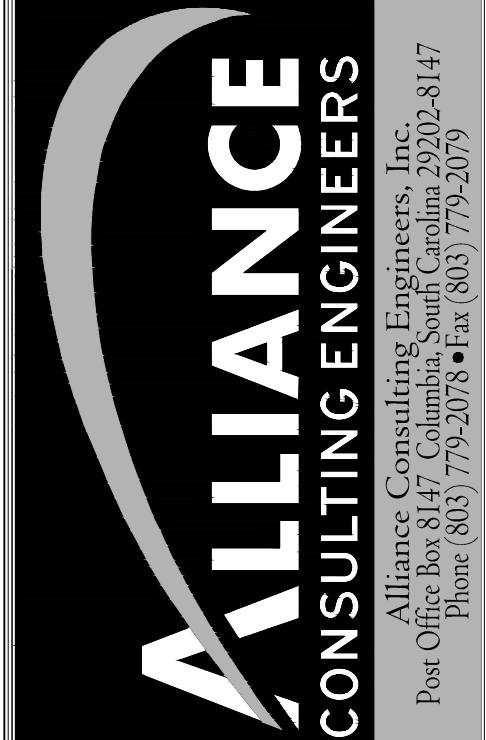
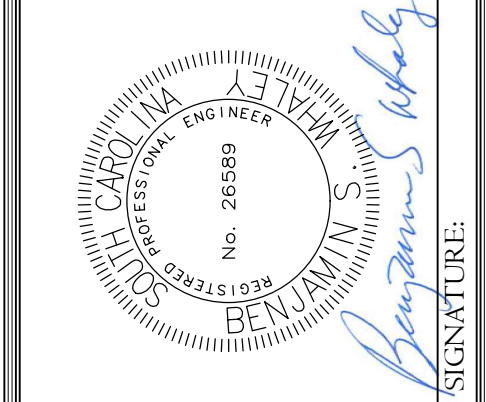
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DWG NO. 01.1648-D28



REVISION DATE	

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



SHEET

NORTH PARK LANE
 CROSS SECTION
 STA 13+00 TO 14+00
 (SHEET 10 OF 10)

DATE: SEPTEMBER 2023 SCALE: 1" = 10'

PROJECT

CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL
 PARK LANE AND ± 1425-LF OF
 NORTH PARK LANE AT THE ±
 139-ACRE LYNCHES RIVER
 INDUSTRIAL PARK OFF DOVE
 SUTTON ROAD NEAR
 THE TOWN OF PAGELAND
 CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
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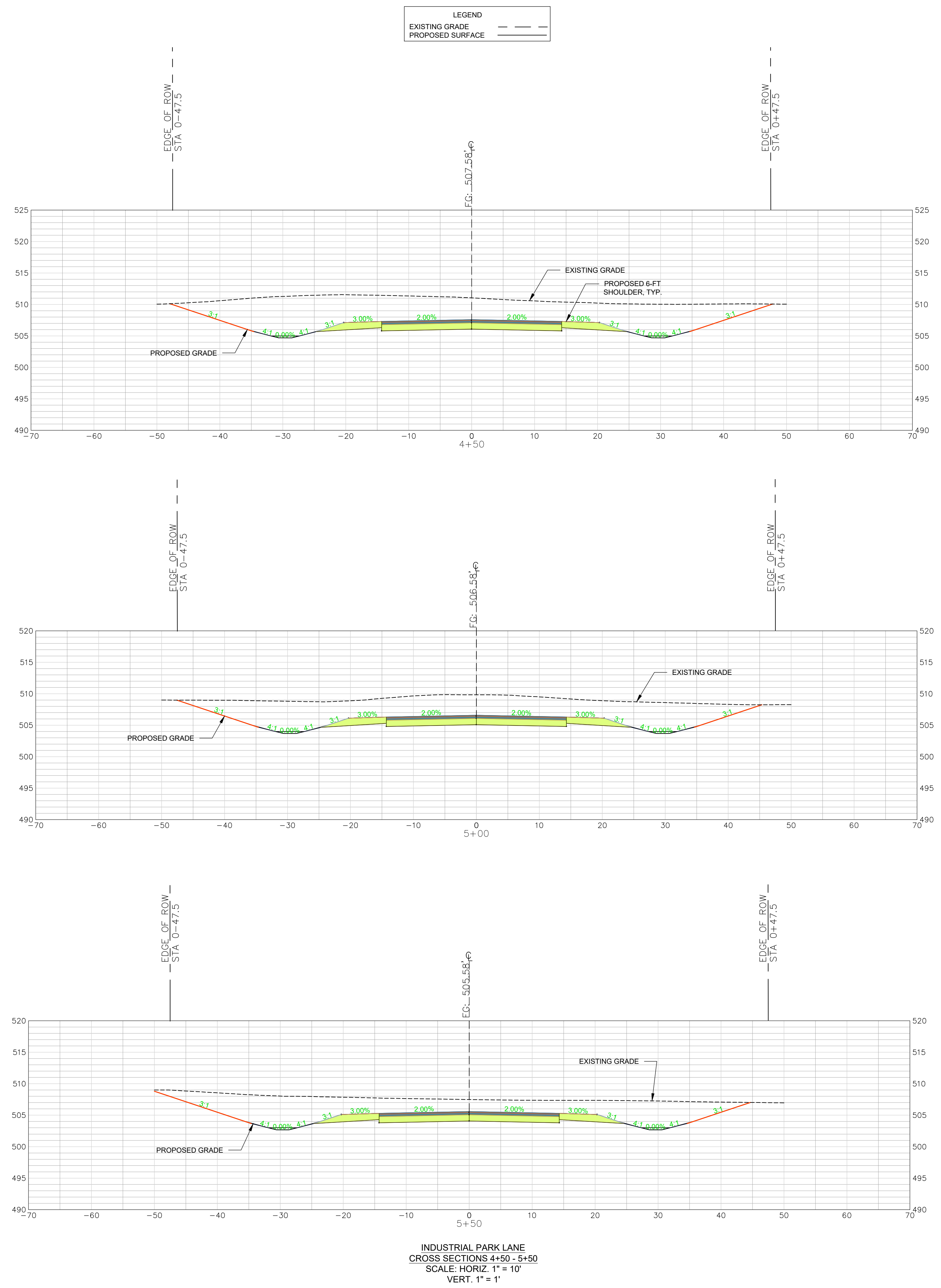
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PROJECT NO.
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SHEET
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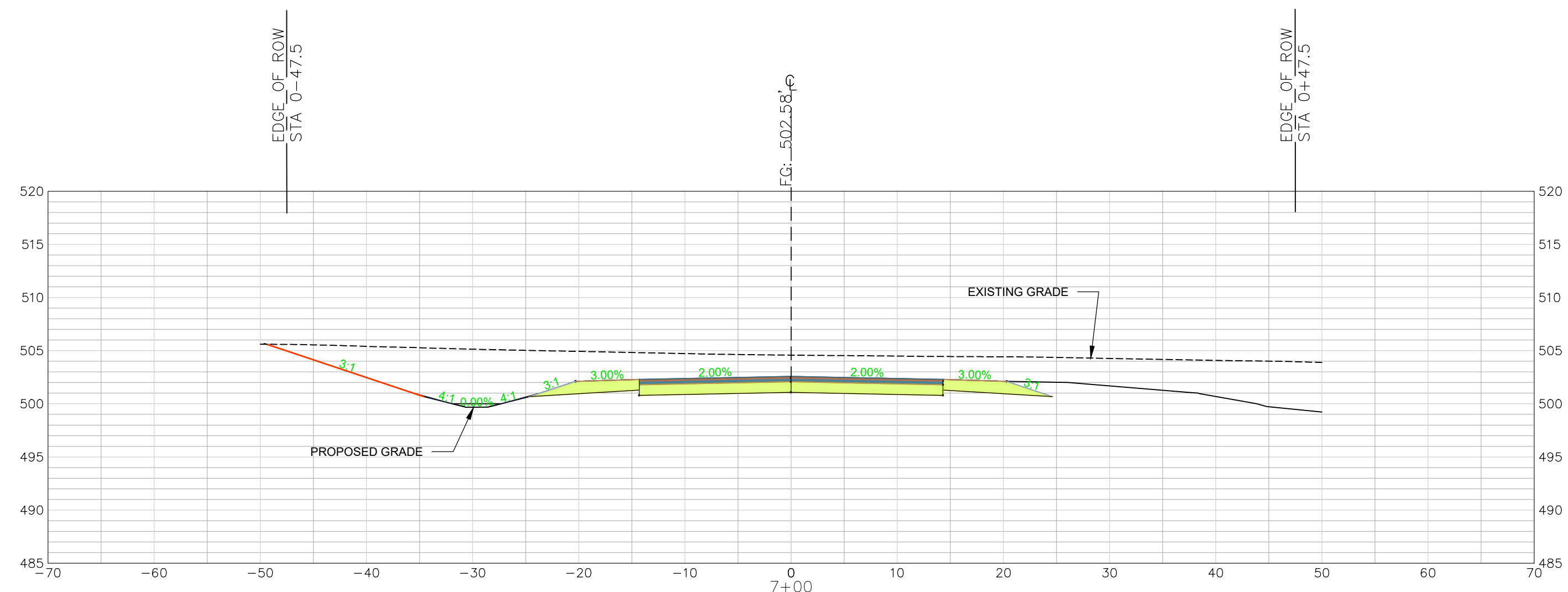
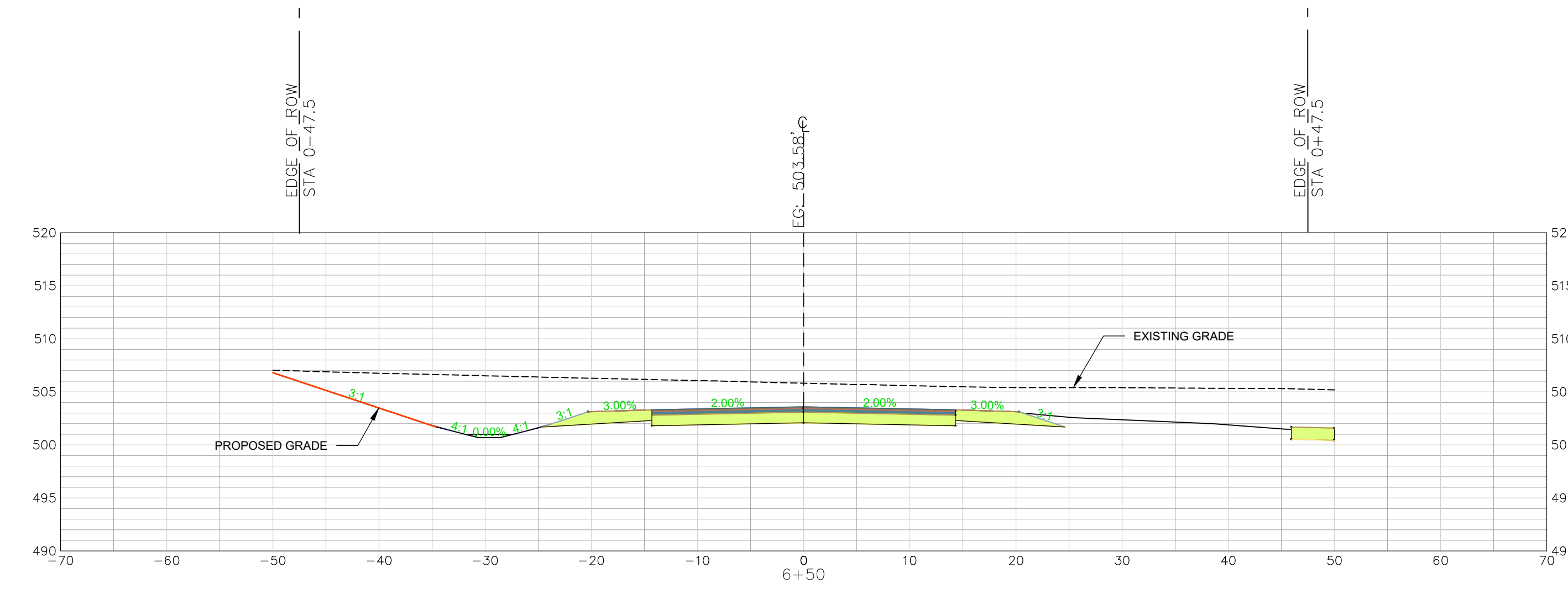
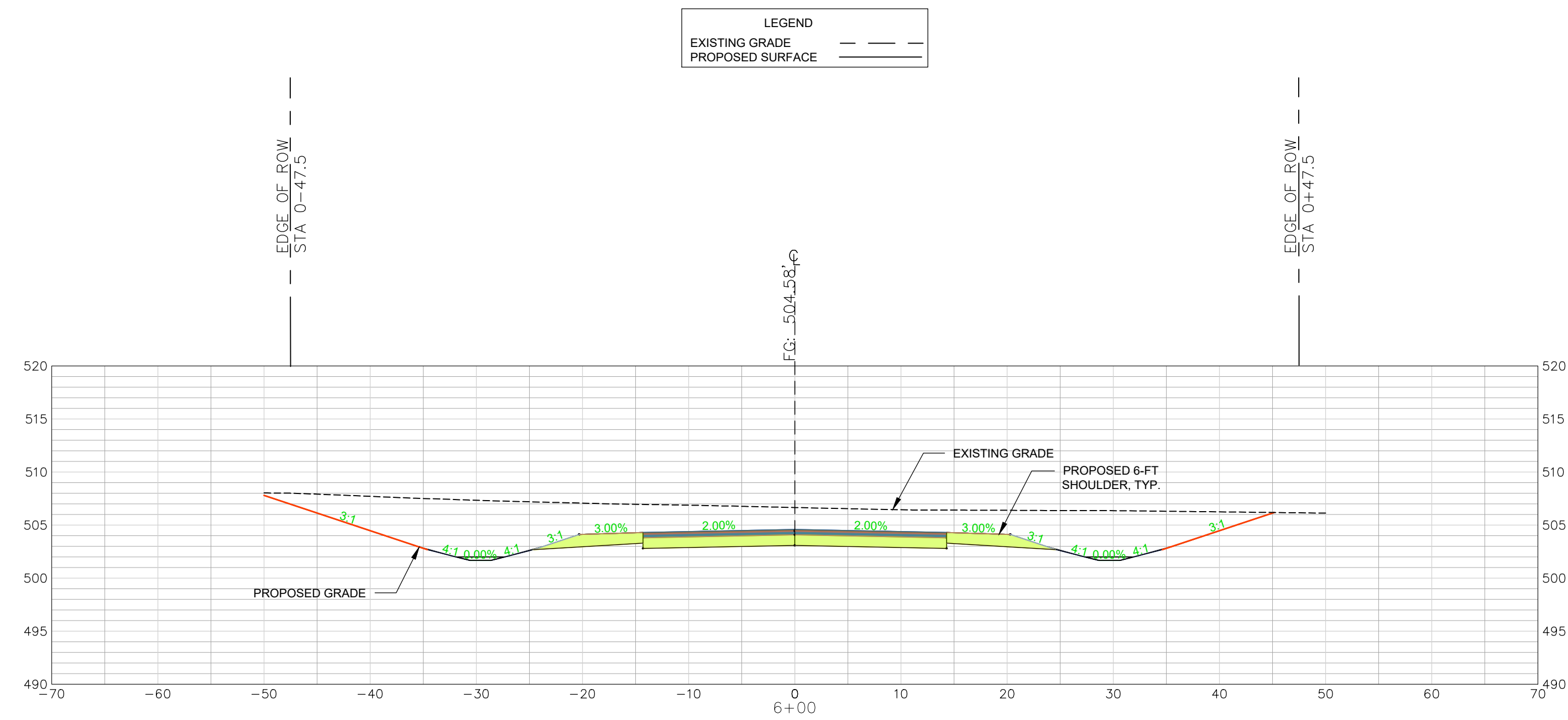
DWG NO. 01.1648-D28

October 06, 2023 - 12:25:57 PM 8:1\Projects\22202-0013 Ph IA Entrance Rwy Ext & Ph IIB Secondary Rwy Lynchies Rvr Ind Pk South Chesterfield Colling\Construction Plans\Construction Plans\C4.0 Entrance Cross Section (1 of 10).dwg
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<p>REVISION DATE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;"> </td><td style="width: 50%;"> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>											<p>APPROVALS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">ENGINEER</td> <td style="width: 20%;">BSW</td> <td style="width: 20%;">DESIGNER</td> <td style="width: 20%;">BSW</td> <td style="width: 20%;">CHECKED BY</td> <td style="width: 20%;">JAH</td> <td style="width: 20%;">APPROVED</td> <td style="width: 20%;">BSW</td> </tr> </table>	ENGINEER	BSW	DESIGNER	BSW	CHECKED BY	JAH	APPROVED	BSW
ENGINEER	BSW	DESIGNER	BSW	CHECKED BY	JAH	APPROVED	BSW												
<p>DATE: 10/9/23</p> <p>SIGNATURE: <i>Benjamin S. Kelly</i></p>																			
<p>INDUSTRIAL PARK LANE CROSS SECTION STA 4+50 TO 5+50 (SHEET 4 OF 10)</p>																			
<p>PROJECT: CONSTRUCTION PLAN SET ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA</p>																			
<p>DATE: SEPTEMBER 2023 SCALE: 1" = 10'</p>																			
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<p>DWG NO. 01.1648-D28</p>																			

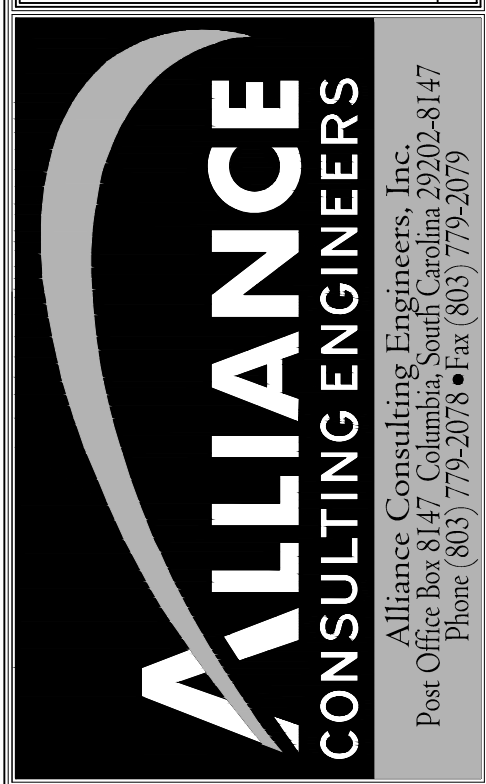
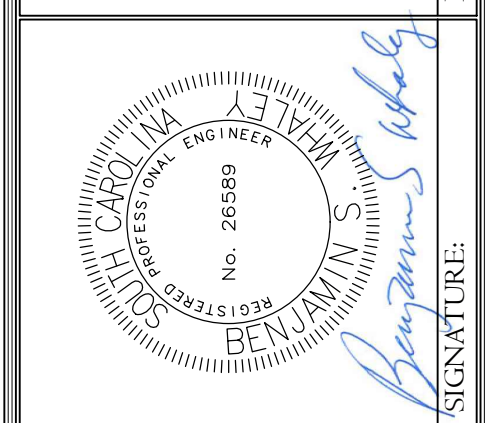
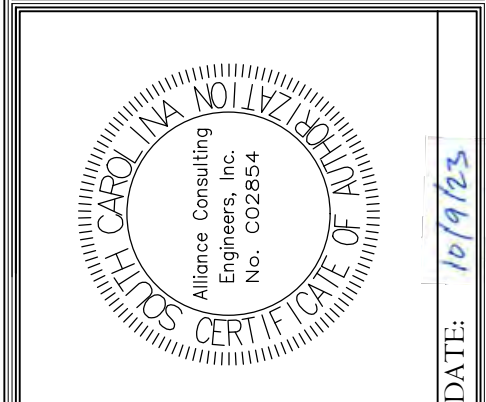
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INDUSTRIAL PARK LANE
 CROSS SECTIONS 6+00 - 7+00
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 1'

REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE ENGINEER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



INDUSTRIAL PARK LANE
 CROSS SECTION
 STA 6+00 TO 7+00
 (SHEET 5 OF 10)

DATE: SEPTEMBER 2023
 SCALE: 1" = 10'

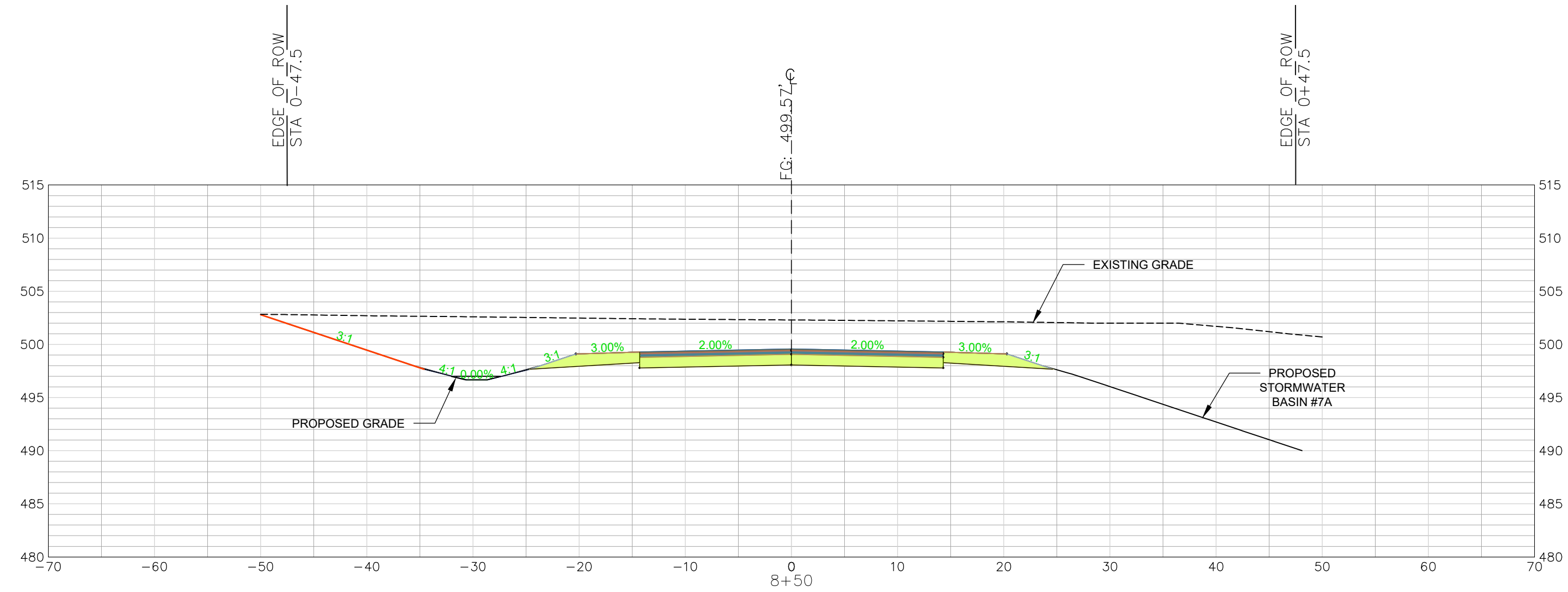
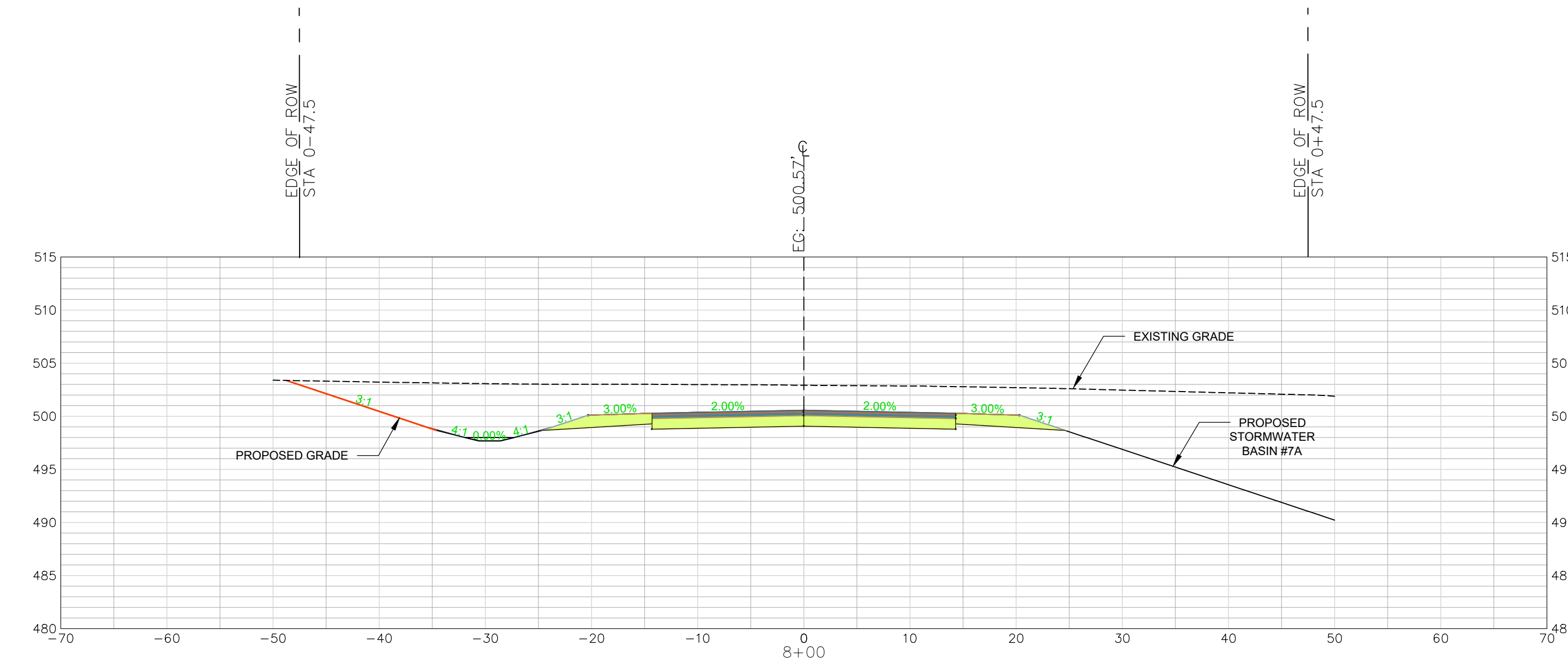
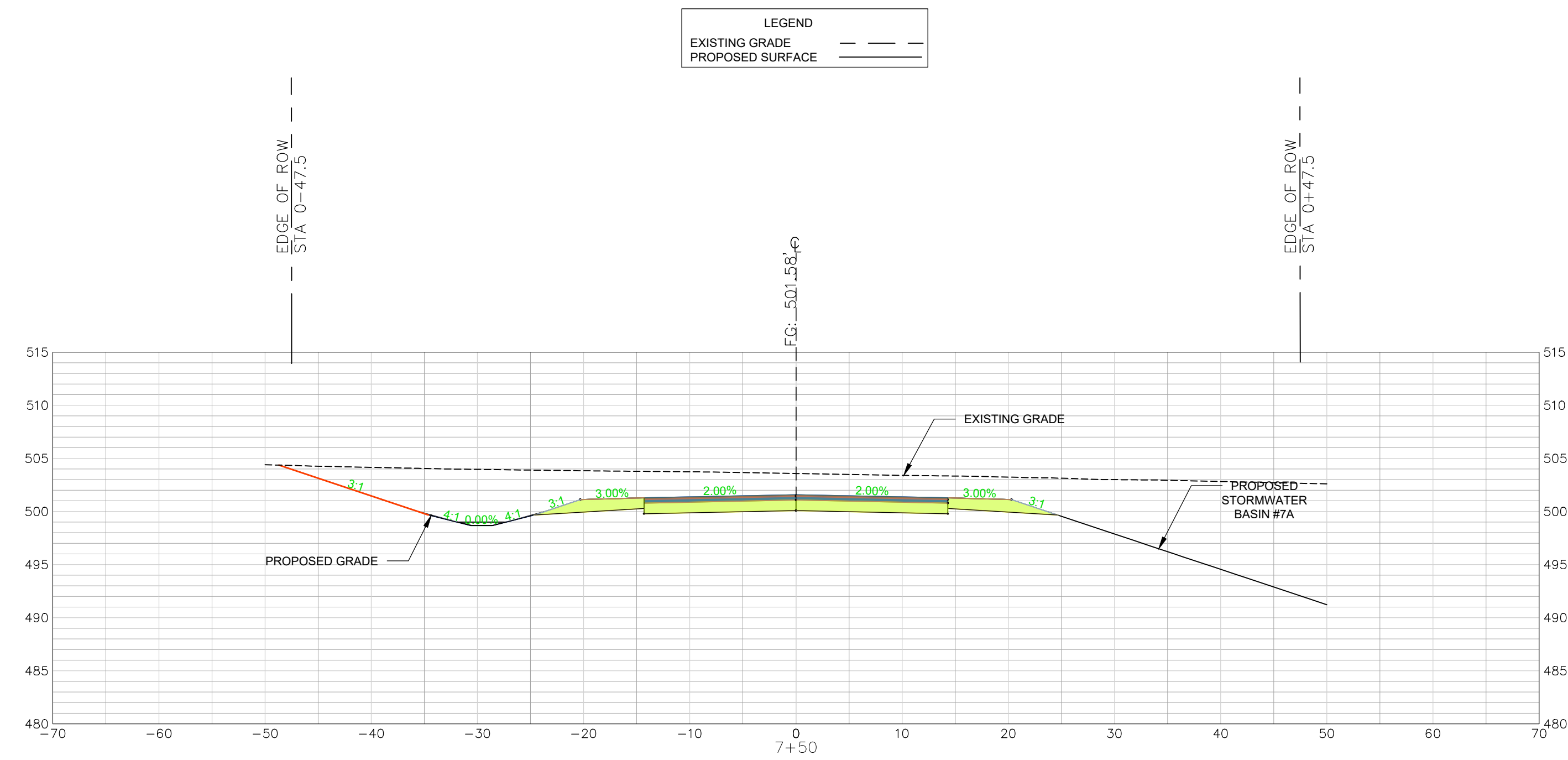
PROJECT: CONSTRUCTION PLAN SET
 ± 1,530-LF PHASE IIB INDUSTRIAL
 PARK LANE AND ± 1,425-LF OF
 NORTH PARK LANE AT THE ±
 139-ACRE LYNCHES RIVER
 INDUSTRIAL PARK OFF DOVE
 SUTTON ROAD NEAR
 THE TOWN OF PAGELAND
 CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.0.dwg	SHEET C4.4
REFERENCE FILE: 22202-0013 BASE.dwg	
PROJECT NO. 22202-0013	

DWG NO. 01.1648-D28

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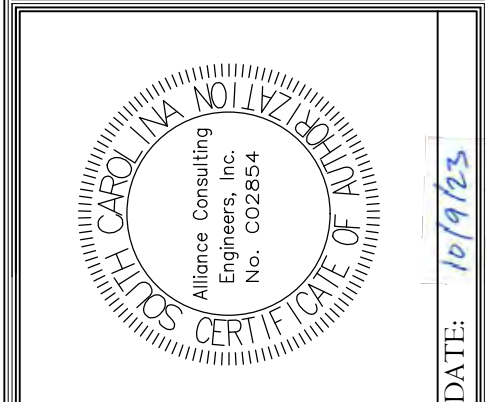
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INDUSTRIAL PARK LANE
 CROSS SECTIONS 7+50 - 8+50
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 1'

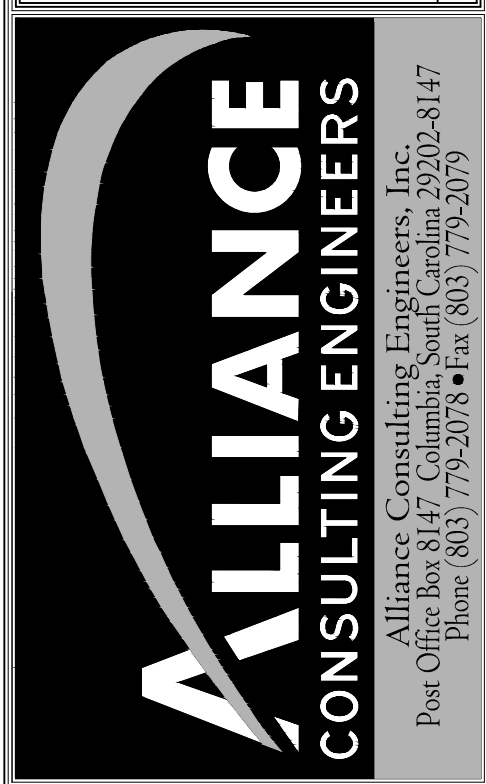
REVISION DATE	

APPROVALS
ENGINEER BSW
DESIGNER BSW
TITLE ENGINEER JAH
CHECKED BY BSW
APPROVED BY BSW



DATE: 10/9/23

SIGNATURE: *Benjamen S. Whaley*



INDUSTRIAL PARK LANE
 CROSS SECTION
 STA 7+50 TO 8+50
 (SHEET 6 OF 10)

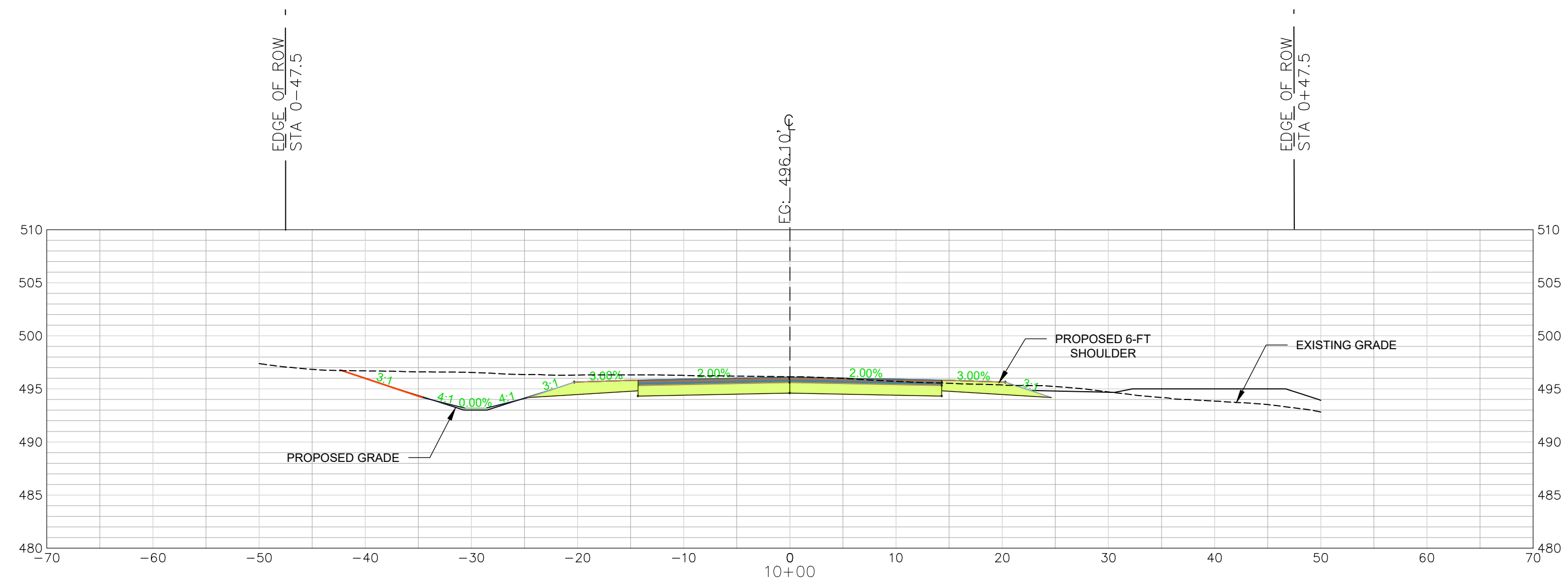
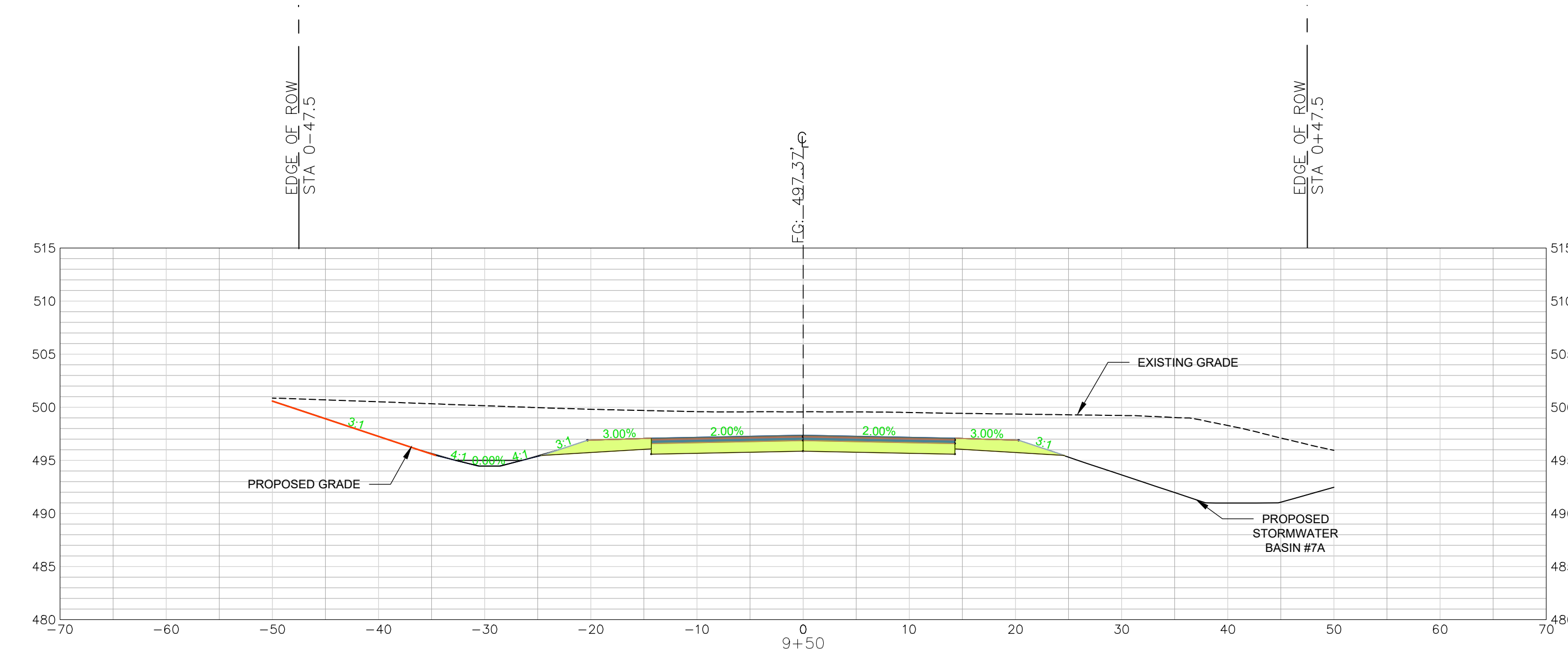
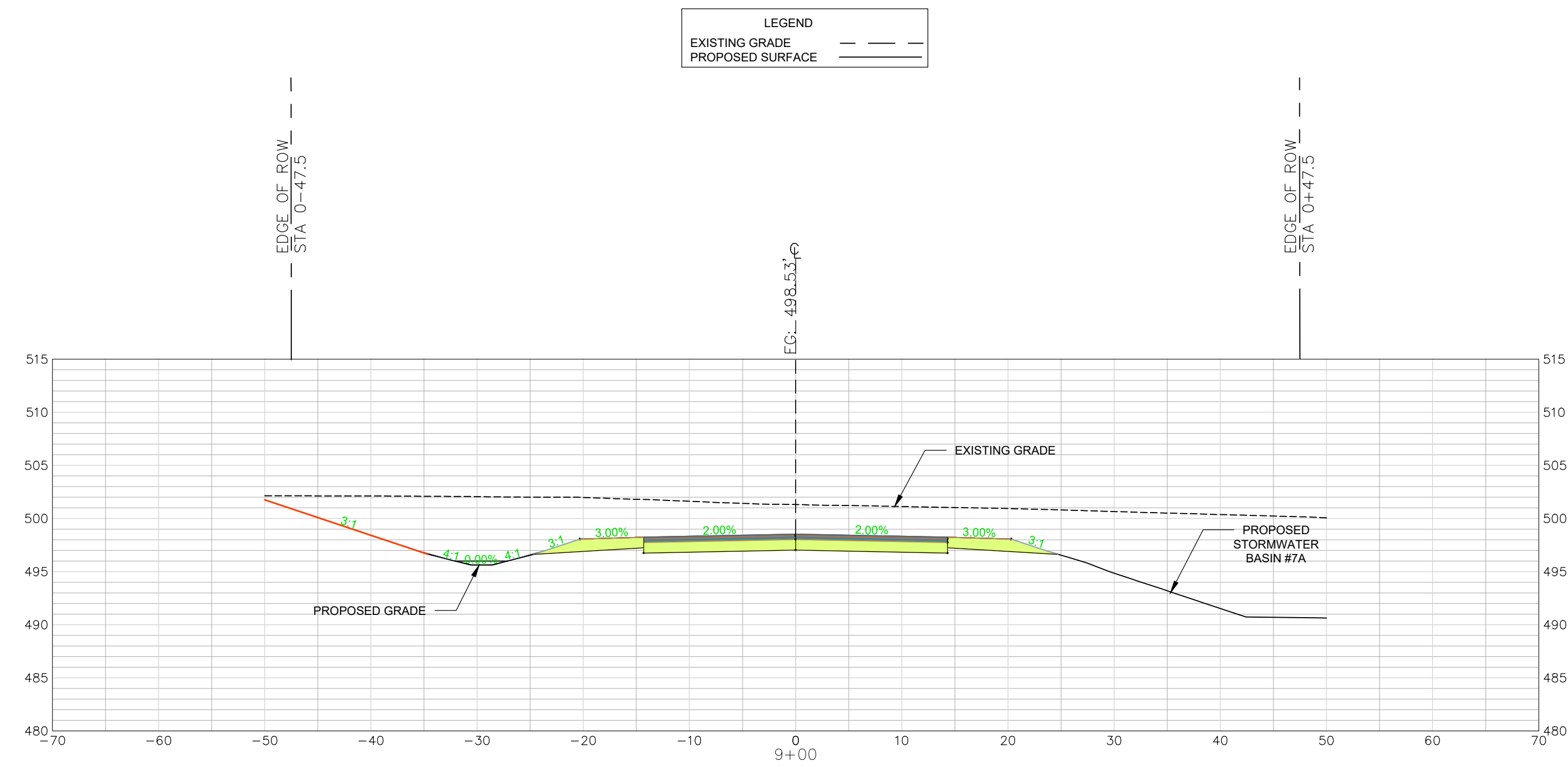
DATE: SEPTEMBER 2023 SCALE: 1" = 10'

PROJECT: CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.0.dwg
 REFERENCE FILE: 22202-0013 BASE.dwg
 PROJECT NO. 22202-0013

SHEET C4.5

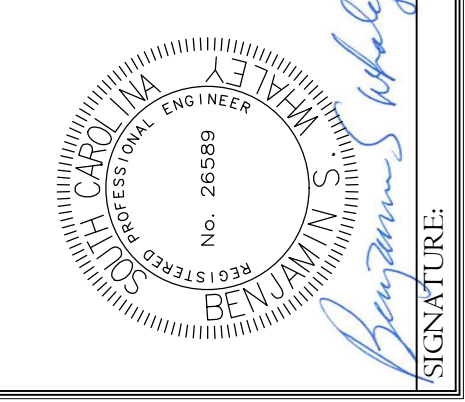
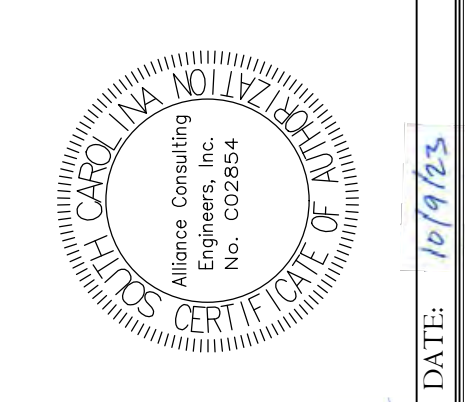
DWG NO. 01.1648-D28



INDUSTRIAL PARK LANE
 CROSS SECTIONS 9+00 - 10+00
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 1'

REVISION DATE	

APPROVALS
ENGINEER BSW
DESIGNER BSW
TITLE ENGINEER JAH
CHECKED BY BSW
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

INDUSTRIAL PARK LANE
 CROSS SECTION
 STA 9+00 TO 10+00
 (SHEET 7 OF 10)

DATE: SEPTEMBER 2023 SCALE: 1" = 10'

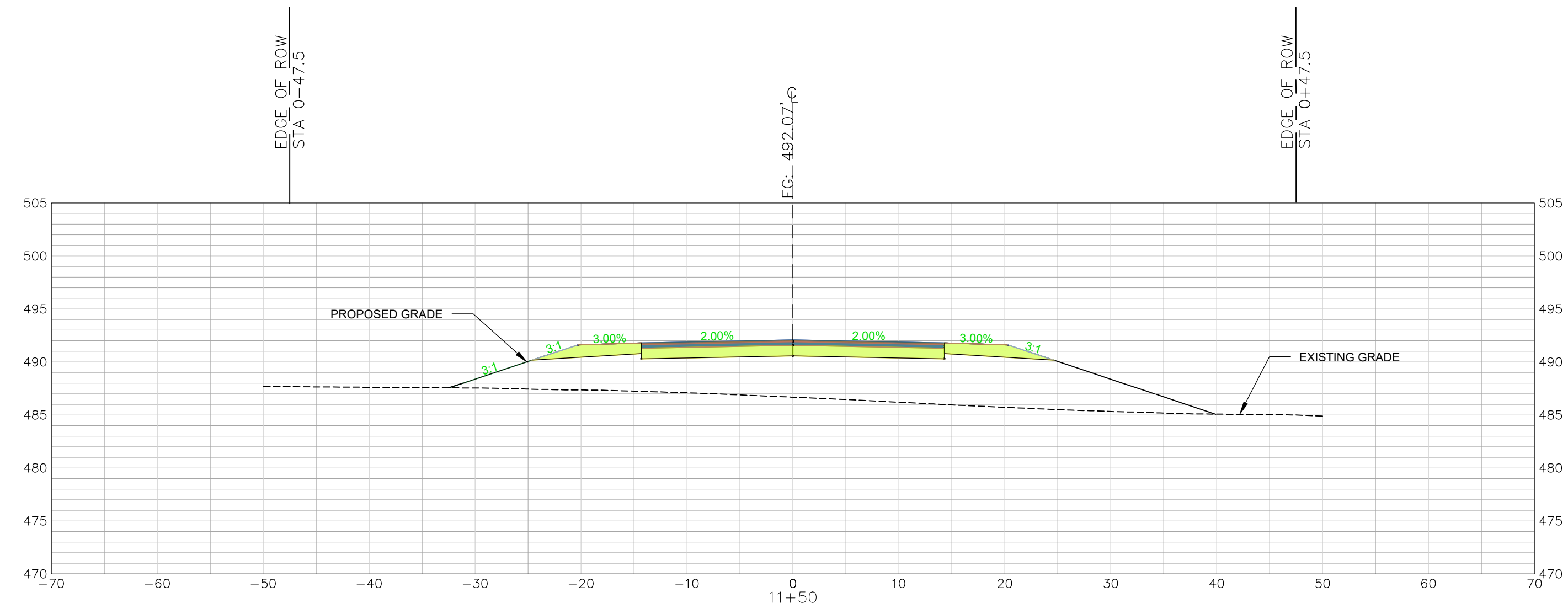
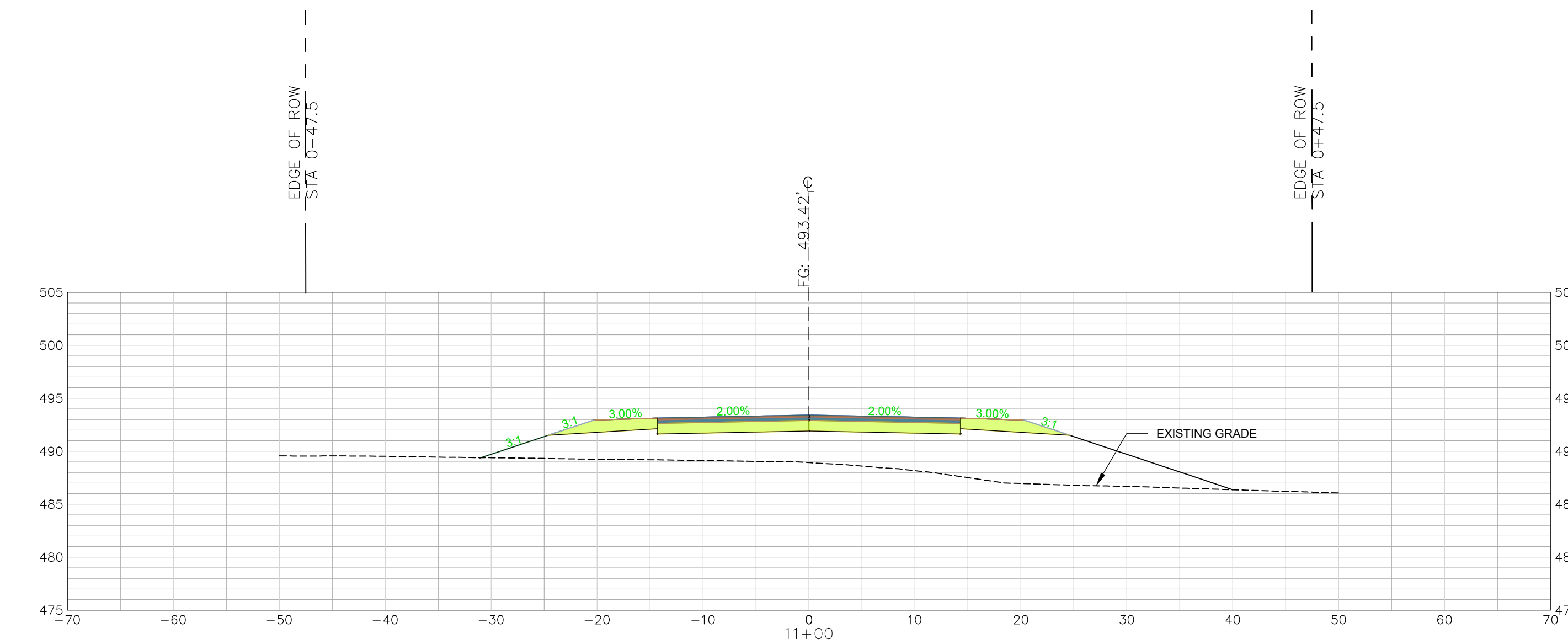
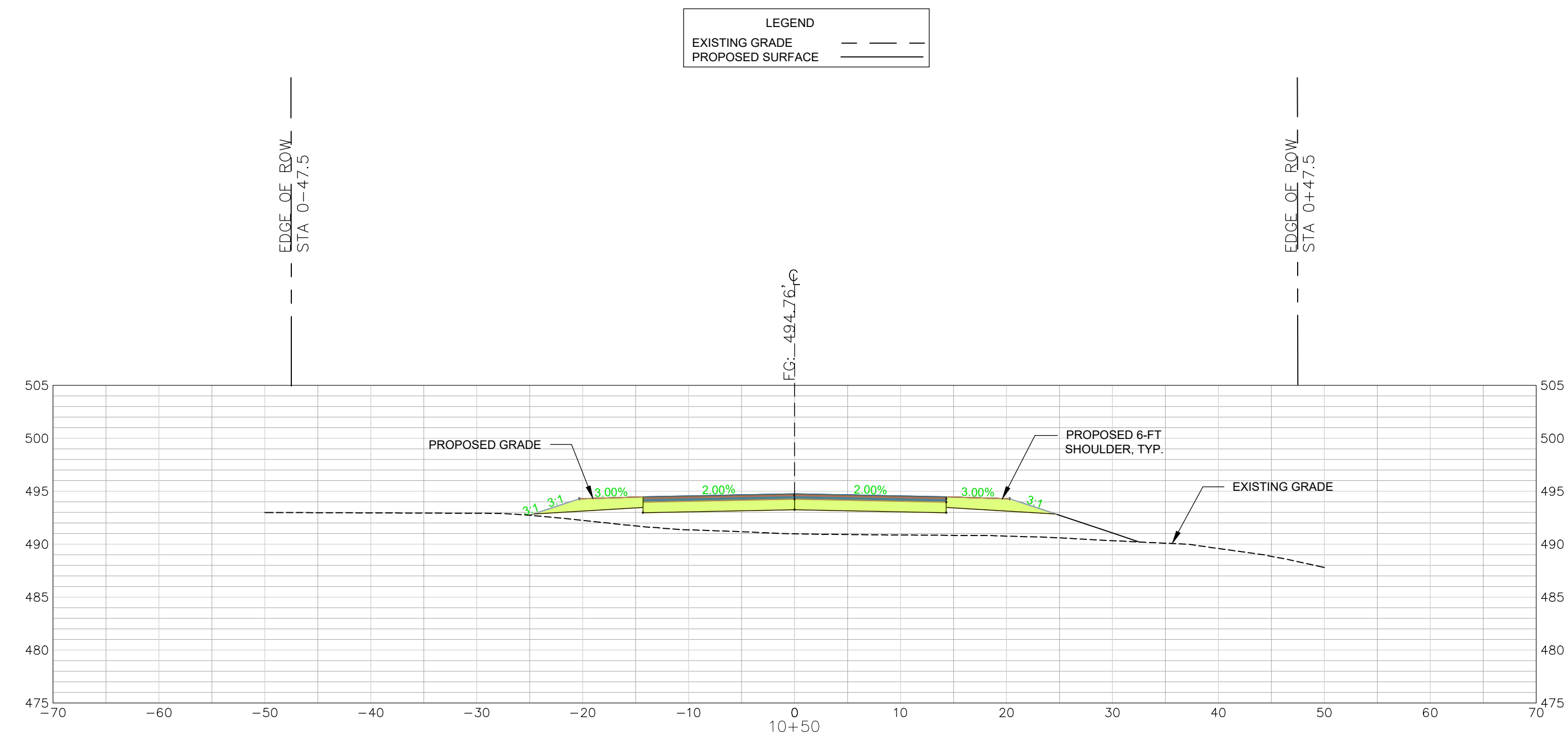
PROJECT: CONSTRUCTION PLAN SET
 ± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.0.dwg
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 PROJECT NO. 22202-0013

SHEET C4.6

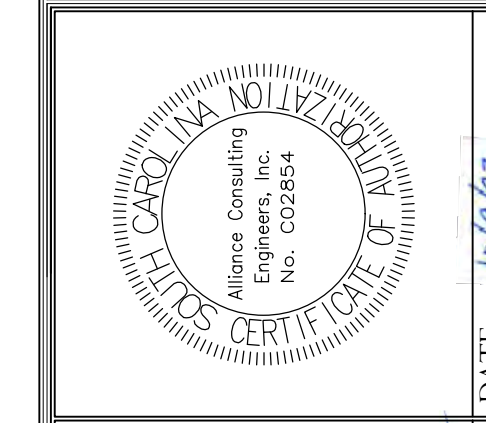
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INDUSTRIAL PARK LANE
 CROSS SECTIONS 10+50 - 11+50
 SCALE: HORIZ. 1" = 10'
 VERT. 1" = 1'

APPROVALS	REVISION DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE ENGINEER JAH	
CHECKED BY BSW	
APPROVED BSW	



SIGNATURE: *Benjamin S. Whaley*



INDUSTRIAL PARK LANE
 CROSS SECTION
 STA 10+50 TO 11+50
 (SHEET 8 OF 10)

DATE: SEPTEMBER 2023 SCALE: 1" = 10'

CONSTRUCTION PLAN SET
 ± 1,530-LF PHASE IIB INDUSTRIAL
 PARK LANE AND ± 1,425-LF OF
 NORTH PARK LANE AT THE ±
 139-ACRE LYNCHIES RIVER
 INDUSTRIAL PARK OFF DOVE
 SUTTON ROAD NEAR
 THE TOWN OF PAGELAND
 CHESTERFIELD COUNTY SOUTH CAROLINA

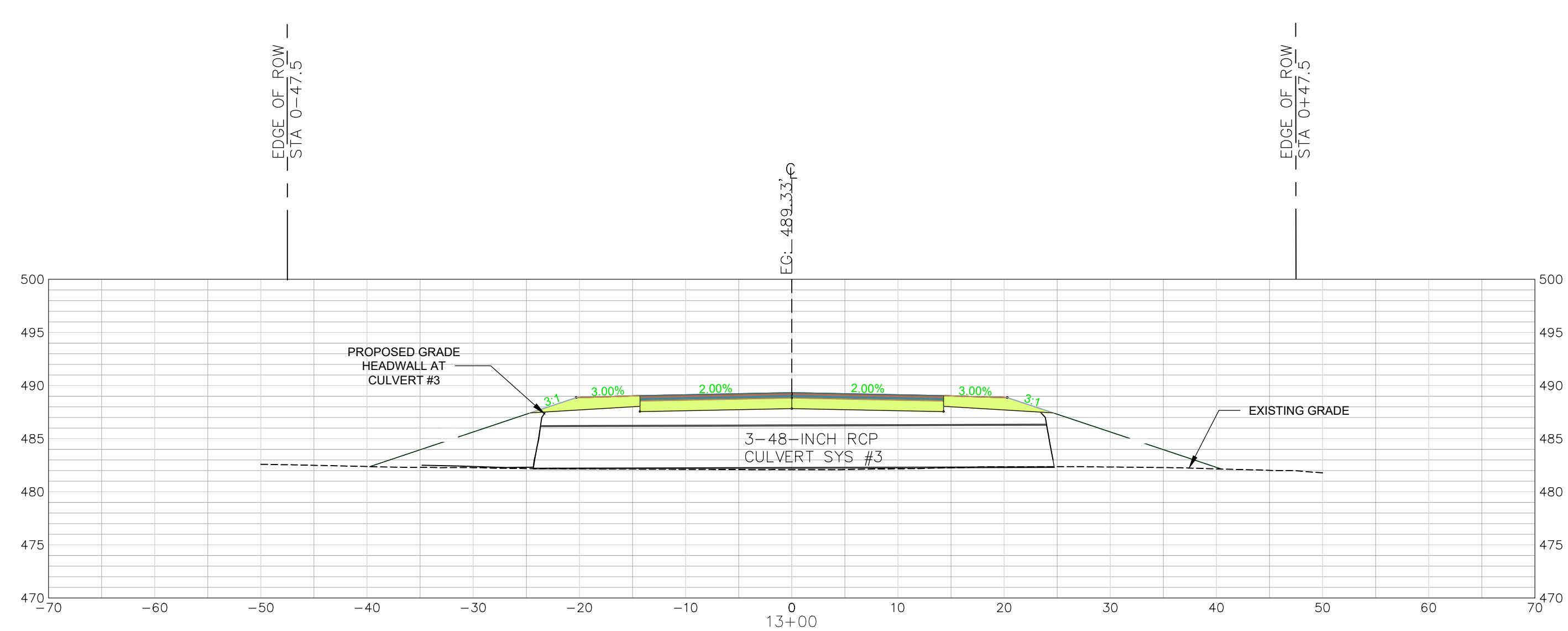
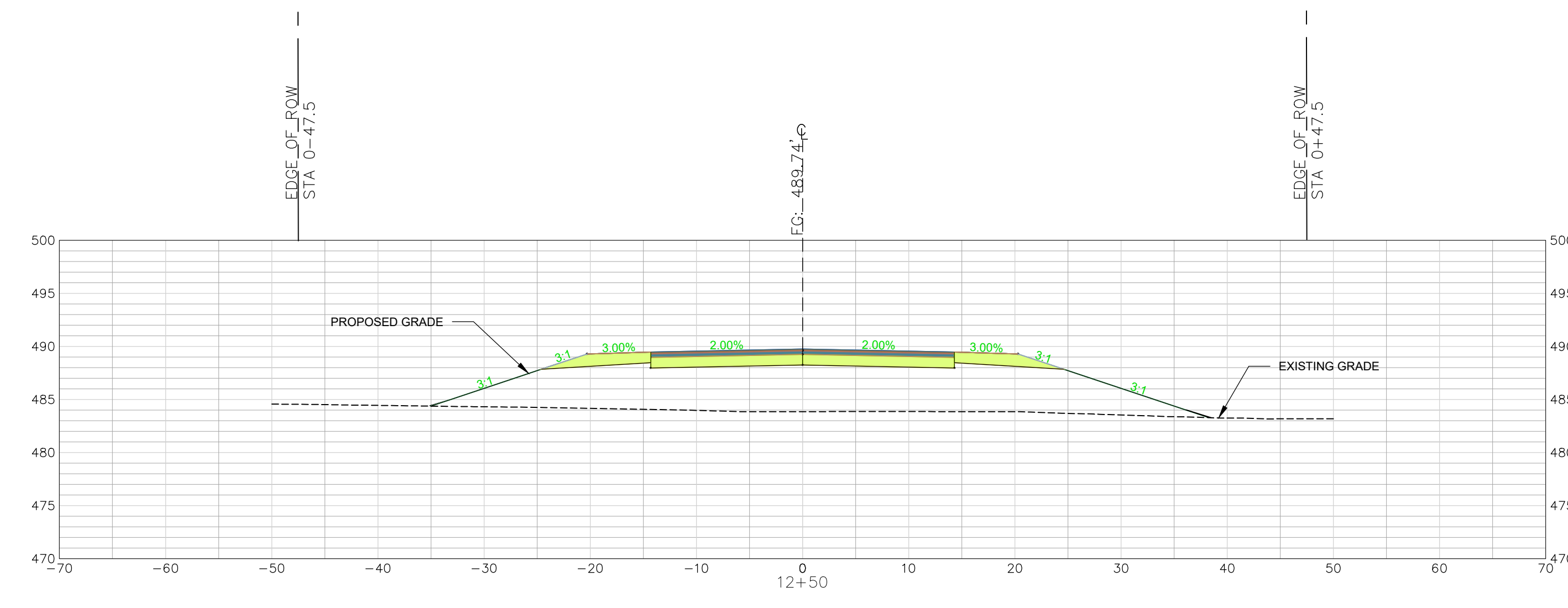
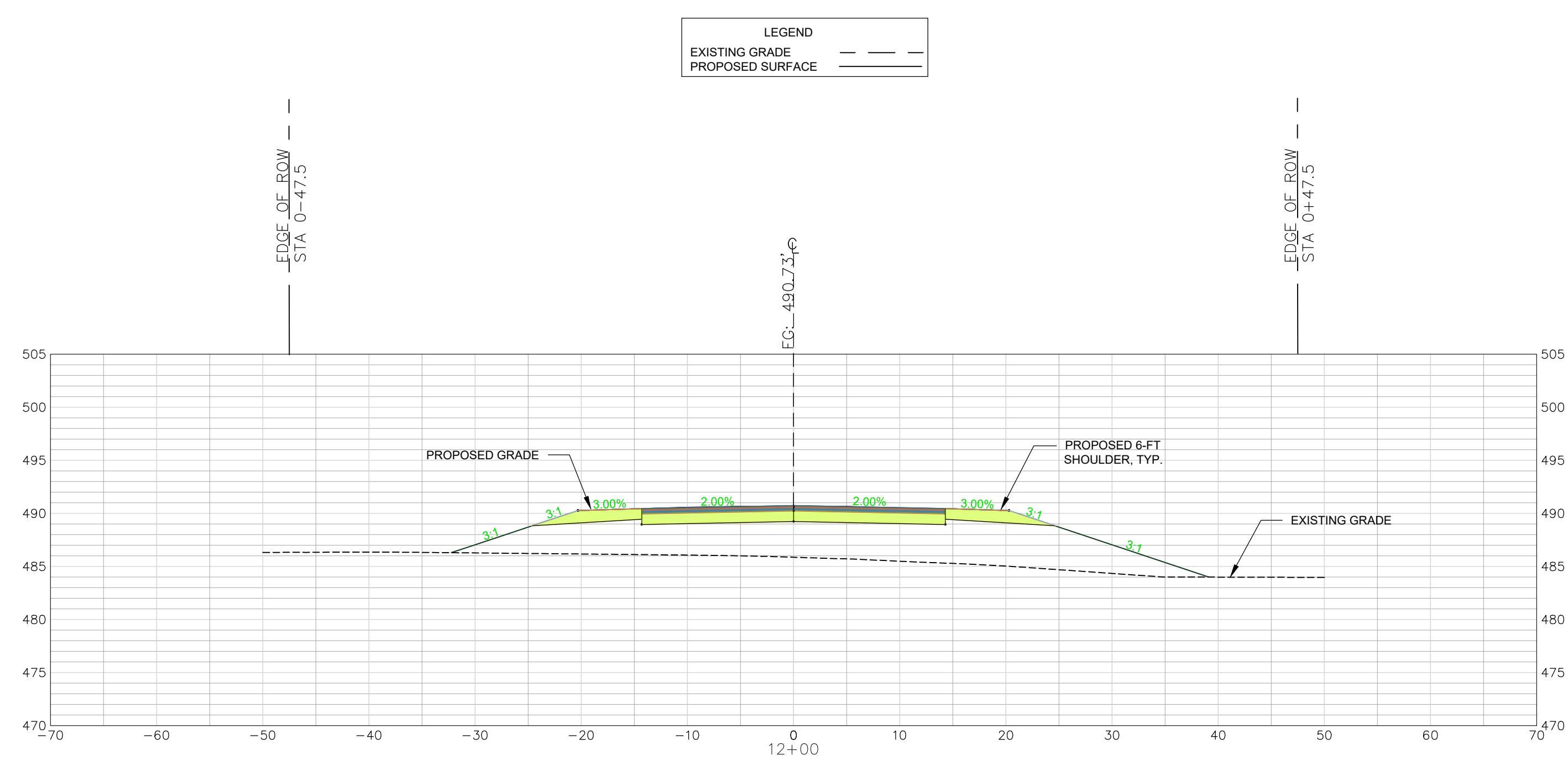
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 PROJECT NO.
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SHEET
 C4.7

DWG NO. 01.1648-D28

October 06, 2023 - 12:59:16 PM 8:1/Project/22202-0013 Ph. 1A Entrance Rwy Ext. & Ph. 11B Secondary Rwy Lynchies Rv Ind Pk South Chesterfield Colldg/Construction Plans/Construction Plans/ C4.8 Entrance Cross Section (1 of 10).dwg

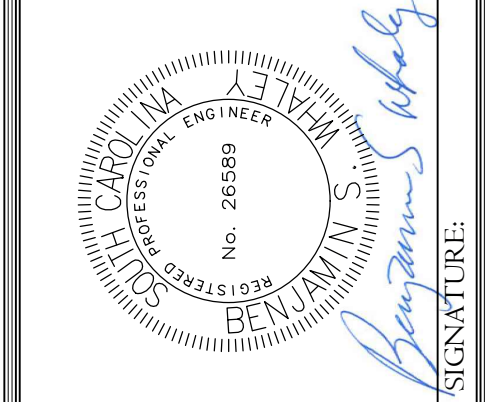
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INDUSTRIAL PARK LANE
CROSS SECTIONS 12+00 - 13+00
SCALE: HORIZ. 1" = 10'
VERT. 1" = 1'

REVISION DATE	

APPROVALS	DATE
ENGINEER BSW	
DESIGNER BSW	
TITLE MANAGER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



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INDUSTRIAL PARK LANE
CROSS SECTION
STA 12+00 TO 13+00
(SHEET 9 OF 10)

DATE: SEPTEMBER 2023 SCALE: 1" = 10'

CONSTRUCTION PLAN SET
± 1,530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1,425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHIES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

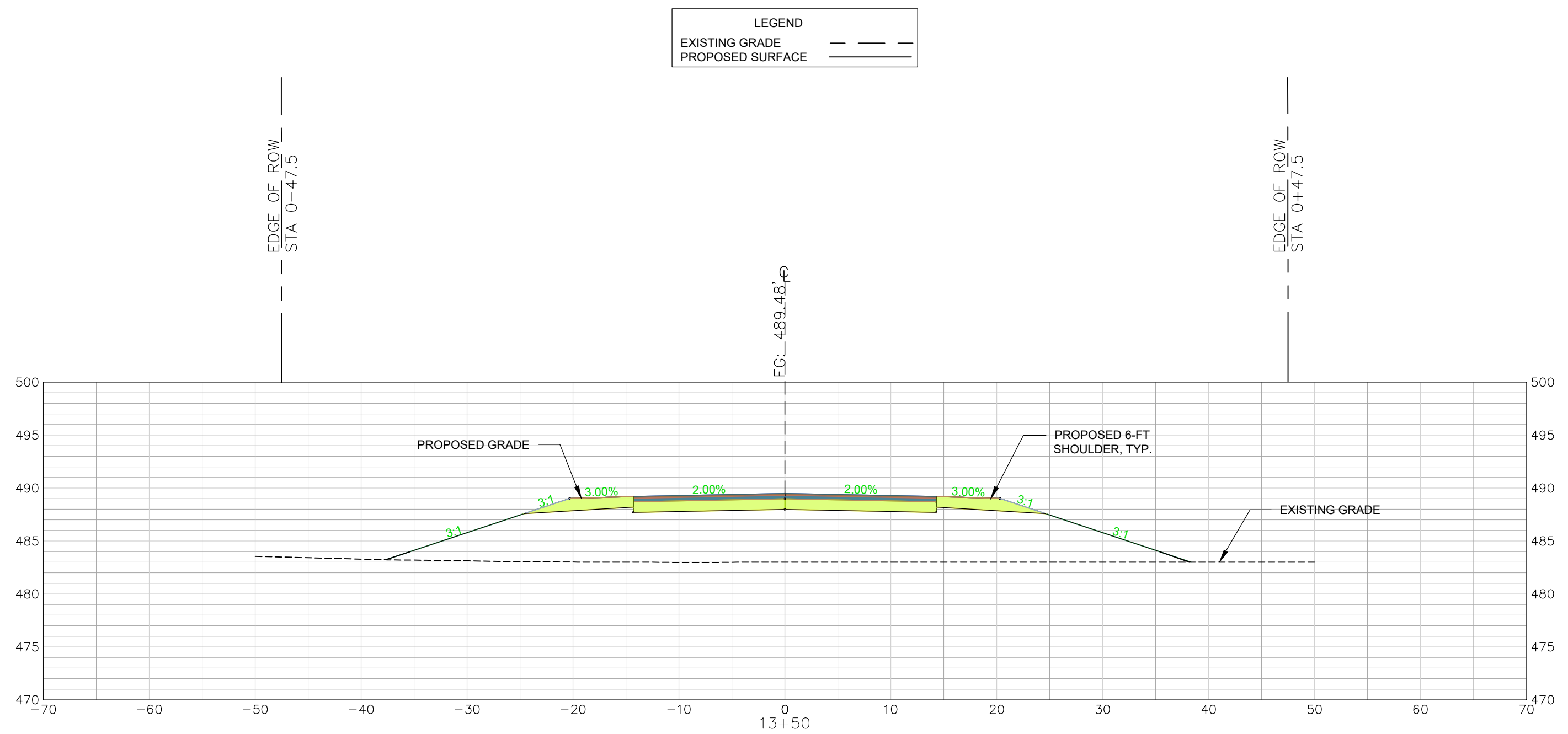
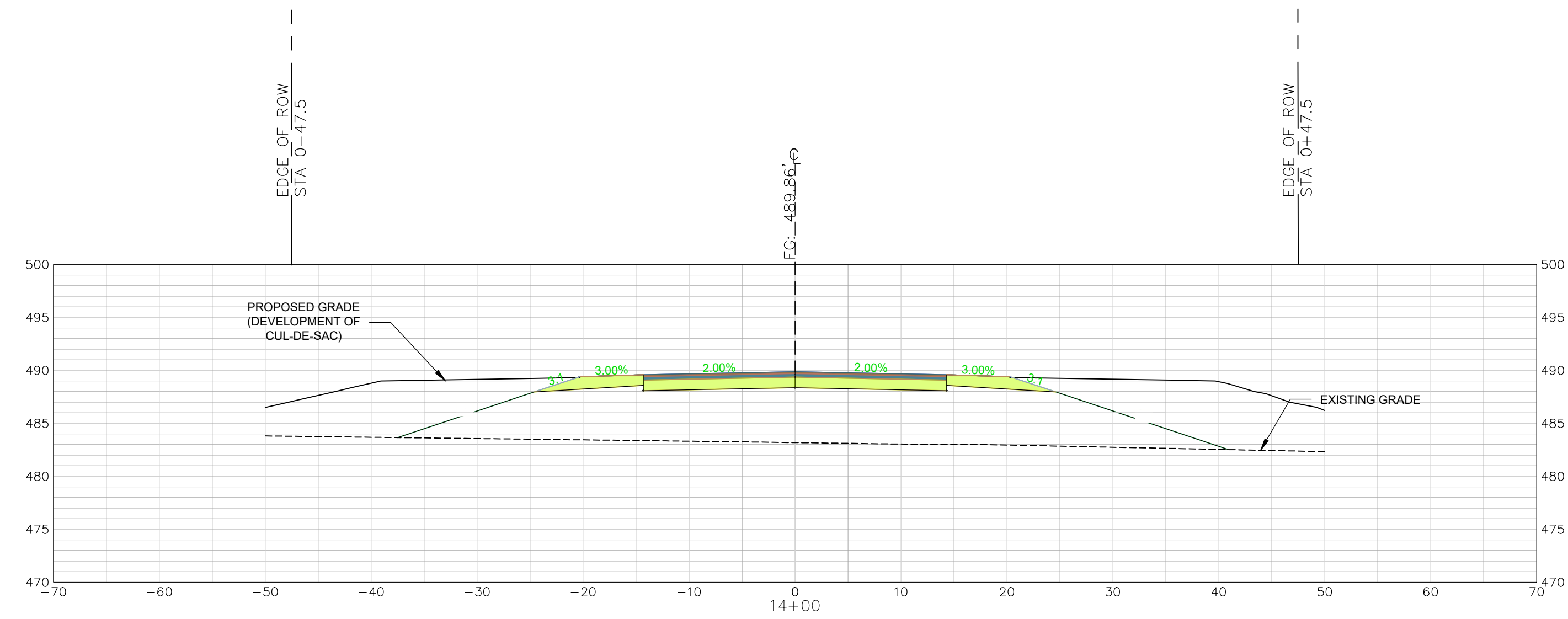
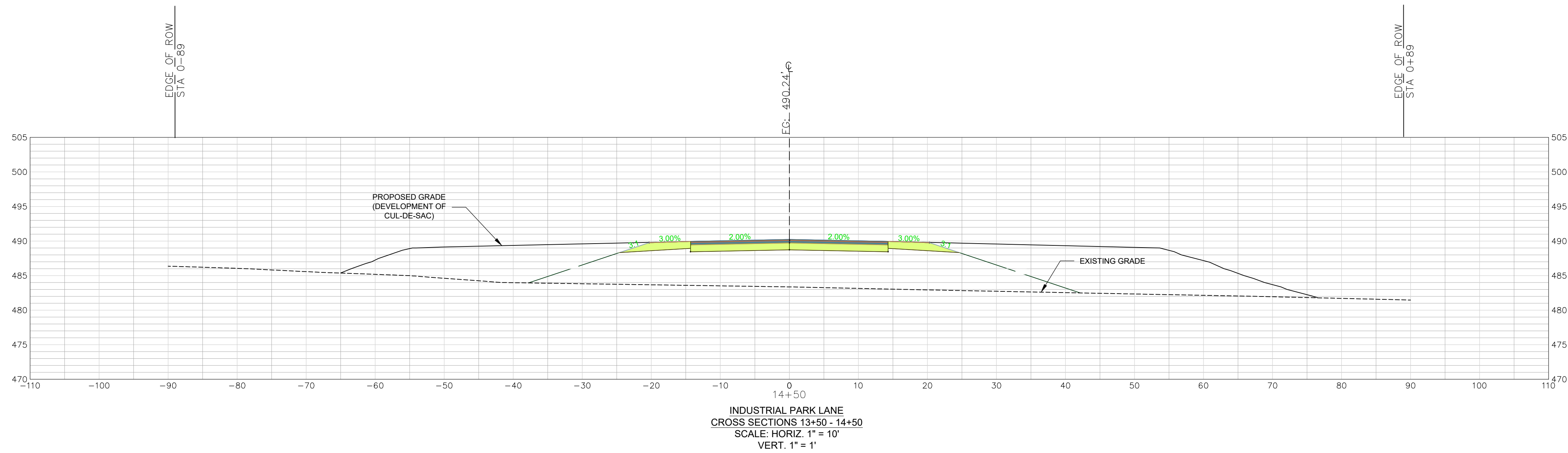
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BASE.dwg
PROJECT NO.
22202-0013

SHEET
C4.8

DWG NO. 01.1648-D28

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October 06, 2023 - 1:00:00 PM (S:\Projects\22202-0013 PH IIA Entrance Rwy Ex & Ph IB Secondary Rwy Lynchess Rv Ind Pk South Chesterfield Cdwg)\Construction Plans\C4.0 Entrance Cross Section (1 of 10).dwg

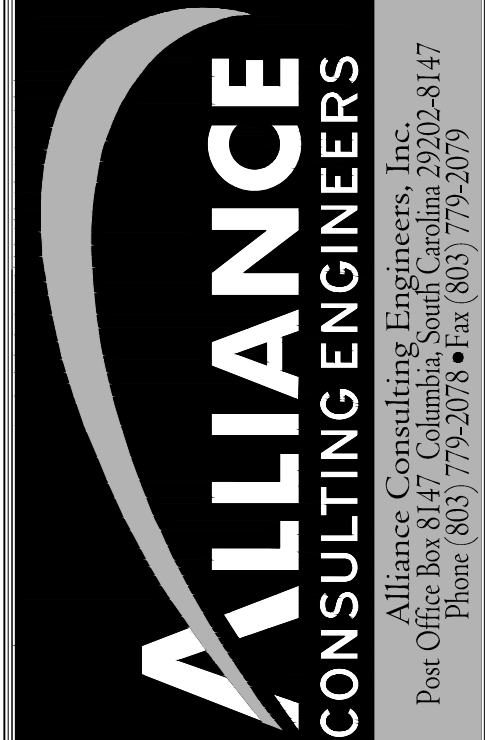


REVISION DATE	

APPROVALS	
ENGINEER BSW	
DESIGNER BSW	
TITLE MANAGER JAH	
CHECKED BY BSW	
APPROVED BY BSW	



DATE: 10/9/23
SIGNATURE: *Benjamin S. Whaley*



INDUSTRIAL PARK LANE
CROSS SECTION
STA 13+50 TO 14+50
(SHEET 10 OF 10)

SCALE: 1" = 10'
DATE: SEPTEMBER 2023

PROJECT: CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C4.0.dwg
REFERENCE FILE: 22202-0013 BASE.dwg
PROJECT NO: 22202-0013

SHEET
C4.9

DWG NO. 01.1648-D28

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

LEGEND	
—SF—	PROPOSED SILT FENCE
—TCE—	TEMPORARY CONSTRUCTION ENTRANCE
—OP—	RIP RAP OUTLET PROTECTION
—PS—	PROPOSED GRASSING
—ECM—	NORTH AMERICAN GREEN SC150 MATTING
—CD—	PROPOSED ROCK CHECK DAM
—DD—	PROPOSED DIVERSION DITCH

WETLAND BUFFER ZONE NOTES:

- FLAGGING OF THE WETLAND BUFFER ZONE MUST BE COMPLETED PRIOR TO ANY LAND DISTURBING ACTIVITIES, INCLUDING THE INSTALLATION OF ANY BEST MANAGEMENT PRACTICES (BMP).
- ALL BMP'S DISCHARGING TO WETLAND BUFFER ZONES MUST BE MAINTAINED TO PREVENT THE DISCHARGE OF SEDIMENT-LADEN STORMWATER TO THE BEST EXTENT POSSIBLE.
- ANY ACCUMULATED SEDIMENT WITHIN A WETLAND BUFFER ZONE IS TO BE REMOVED WITHOUT DAMAGING THE EXISTING VEGETATION TO THE BEST EXTENT POSSIBLE.
- THE ENTIRETY OF THE WETLAND BUFFER ZONE SHOULD BE MAINTAINED UNTIL FINAL STABILIZATION IS REACHED.

NPDES PERMIT INFORMATION - FOR THIS PHASE OF CONSTRUCTION

NPDES DISTURBED AREA = ± 2 ACRES

MAXIMUM LENGTH OF DISTURBED AREA = ± 561 LINEAR FEET (LF)

- CONSTRUCTION SEQUENCE - PHASE I INITIAL LAND DISTURBANCE**
- RECEIVE NPDES LAND DISTURBANCE PERMIT APPROVAL FROM SCDHEC.
 - NOTIFY SCDHEC REGIONAL OFFICE AND CHESTERFIELD COUNTY 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES FOR A PRE-CON MEETING.
 - FLAGGING OF THE WETLAND BUFFER ZONE MUST BE COMPLETED PRIOR TO ANY LAND DISTURBANCE ACTIVITY BEGINS.
 - CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS AND TEMPORARY SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S) (CONSTRUCTION ENTRANCE, SEDIMENT BASINS #3, CHECK DAMS, SLOPE MATTING, AND PERIMETER SILT FENCE). USE THE EXISTING FARM AND BORING/WASTEWATER EASEMENT PATHS TO AVOID EXTRA LAND DISTURBANCE.
 - AFTER ALL PERIMETER MEASURES ARE INSTALLED, CONTINUE TO PHASE II CONSTRUCTION AND STABILIZATION OF THE AREA - SEE SHEET CS.1.
 - MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.

- REFERENCES:**
- REFERENCE IS MADE TO LIDAR DATA PROVIDED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) NATURAL RESOURCES CONSERVATION SERVICE (NRCS) GEOSPATIAL DATA GATEWAY FOR THE MAJORITY OF THE PROPERTY.
 - REFERENCE IS MADE TO TOPOGRAPHIC SURVEY OF THE PROPOSED ROADWAY ALIGNMENT & BOUNDARY SURVEY (18.52 AC., 9.54 AC., AND 0.47 AC. TRACTS) BY HAYES SURVEYING DATED JANUARY 27, 2021 AND UPDATE MAY 19, 2023.
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OWNER INFORMATION	
OWNER:	CHESTERFIELD COUNTY
CONTACT:	MR. TIM EUBANKS
ADDRESS:	178 MILLS STREET
CITY, STATE:	CHESTERFIELD, SC 29709
TELEPHONE:	(843) 623-2595 (OFFICE) (843) 680-2216 (CELL)
EMAIL:	TIMEUBANKS@CHESTERFIELDCOUNTY SC.COM

DEVELOPER INFORMATION	
DEVELOPER:	CHESTERFIELD COUNTY ECONOMIC DEVELOPMENT
CONTACT:	MS. LIBBY LEAR
ADDRESS:	700 WEST BOULEVARD
CITY, STATE:	CHESTERFIELD, SC 29709
TELEPHONE:	(843) 623-6500 (CELL)
EMAIL:	LLEAR@CHESTERFIELDCOUNTYSC.COM

REVISION DATE	

APPROVALS	
ENGINEER	ISSW
DESIGNER	ISSW
TITLE BLOCK	ISSW
CHECKED BY	JAF
APPROVED	ISSW

	SIGNATURE: <i>Benjamin Libby</i> DATE: 10/19/23
--	--

ALLIANCE CONSULTING ENGINEERS

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

SEDIMENT AND EROSION CONTROL PLAN - PHASE I

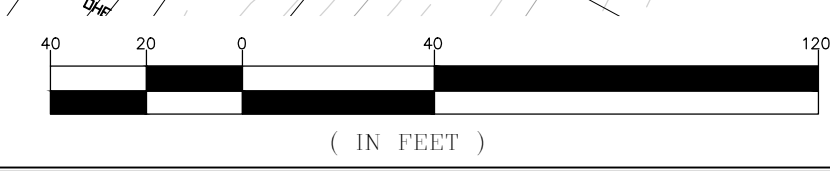
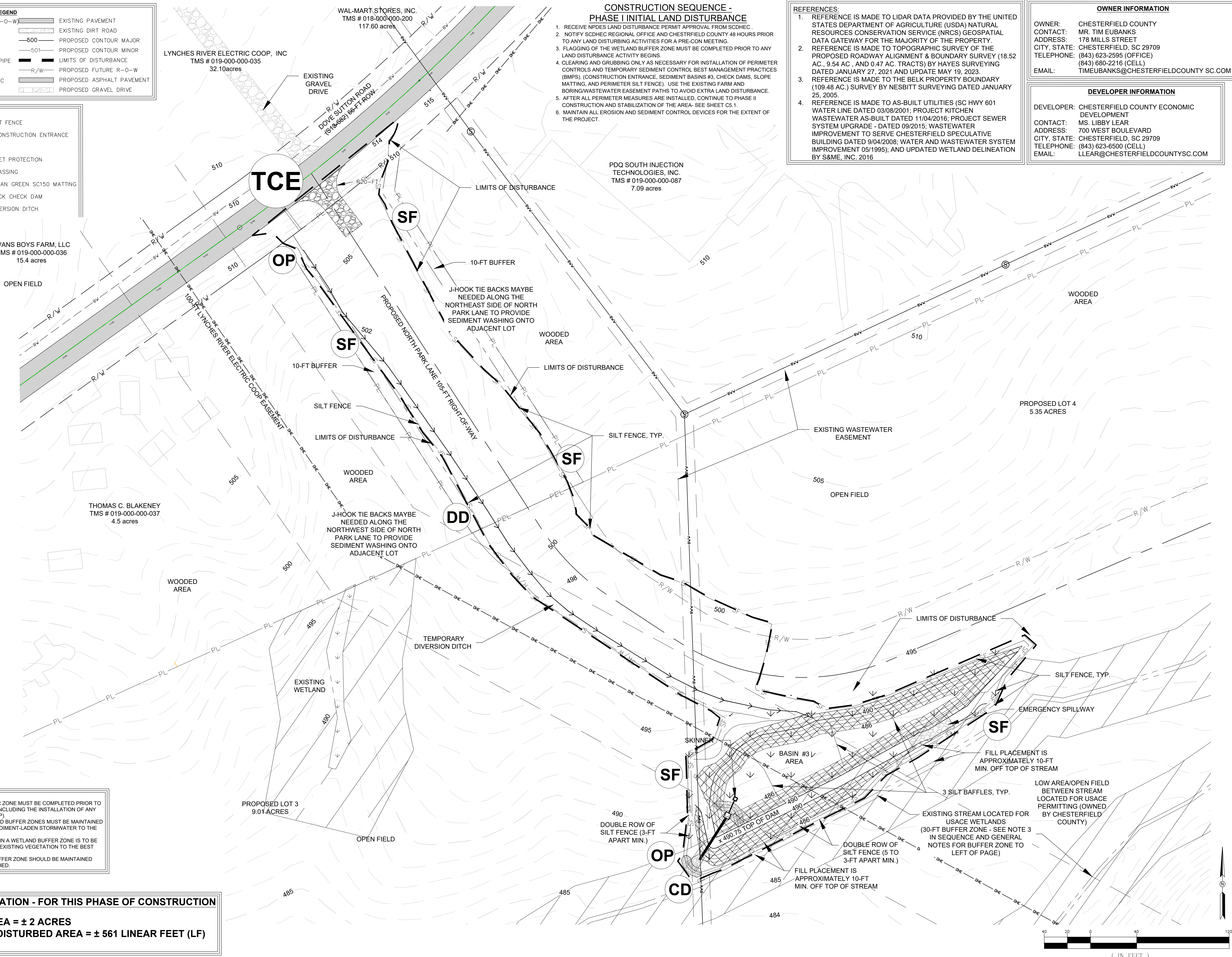
CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND

CHESTERFIELD COUNTY SOUTH CAROLINA

DATE: SEPTEMBER 2023 SCALE: 1" = 40'

FILE NAME:	CS.0.dwg	SHEET
REFERENCE FILE:	22202-0013 BASE.dwg	
PROJECT NO:	22202-0013	C5.0

DWG NO. 01.1648-D28



October 06, 2023 - 11:31:16 AM 8/1/Project/22202-0013 Ph. IIA, Entrance Runway Eas. & Ph. IIIB, Secondary Runway Lynchies Riv and Ph. IIB, Secondary Runway Lynchies Riv and Ph. South Chesterfield, Colong/Construction Plans/Construction Plans C5.2 Phase 2 - Erosion Plan.dwg

LEGEND			
—R/W—	EXISTING RIGHT-OF-WAY (R-O-W)	—	EXISTING PAVEMENT
—185—	EXISTING CONTOUR MAJOR	—	EXISTING DIRT ROAD
—186—	EXISTING CONTOUR MINOR	—500—	PROPOSED CONTOUR MAJOR
—W—	EXISTING WATER MAIN	—501—	PROPOSED CONTOUR MINOR
—SD—	EXISTING STORM DRAINAGE PIPE	—	LIMITS OF DISTURBANCE
—GAS—	EXISTING GAS LINE	R/W	PROPOSED FUTURE R-O-W
—OHE—	EXISTING OVERHEAD ELECTRIC	—	PROPOSED ASPHALT PAVEMENT
		—	PROPOSED GRAVEL DRIVE

LEGEND	
—SF—	PROPOSED SILT FENCE
—TCE—	TEMPORARY CONSTRUCTION ENTRANCE
—OP—	RIP RAP OUTLET PROTECTION
—PS—	PROPOSED GRASSING
—ECM—	NORTH AMERICAN GREEN SC150 MATTING
—CD—	PROPOSED ROCK CHECK DAM

PDQ SOUTH INJECTION TECHNOLOGIES, INC.
TMS# 019-000-000-087
7.09 ACRES

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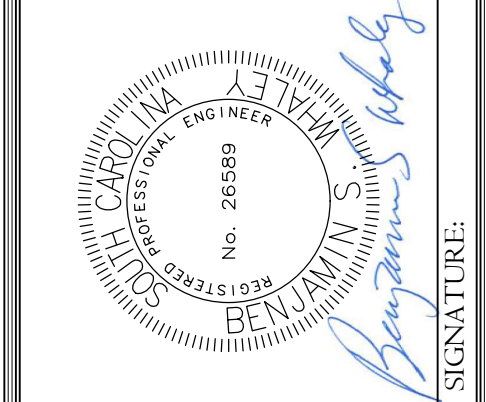
OWNER INFORMATION

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REVISION DATE	



ALLIANCE CONSULTING ENGINEERS

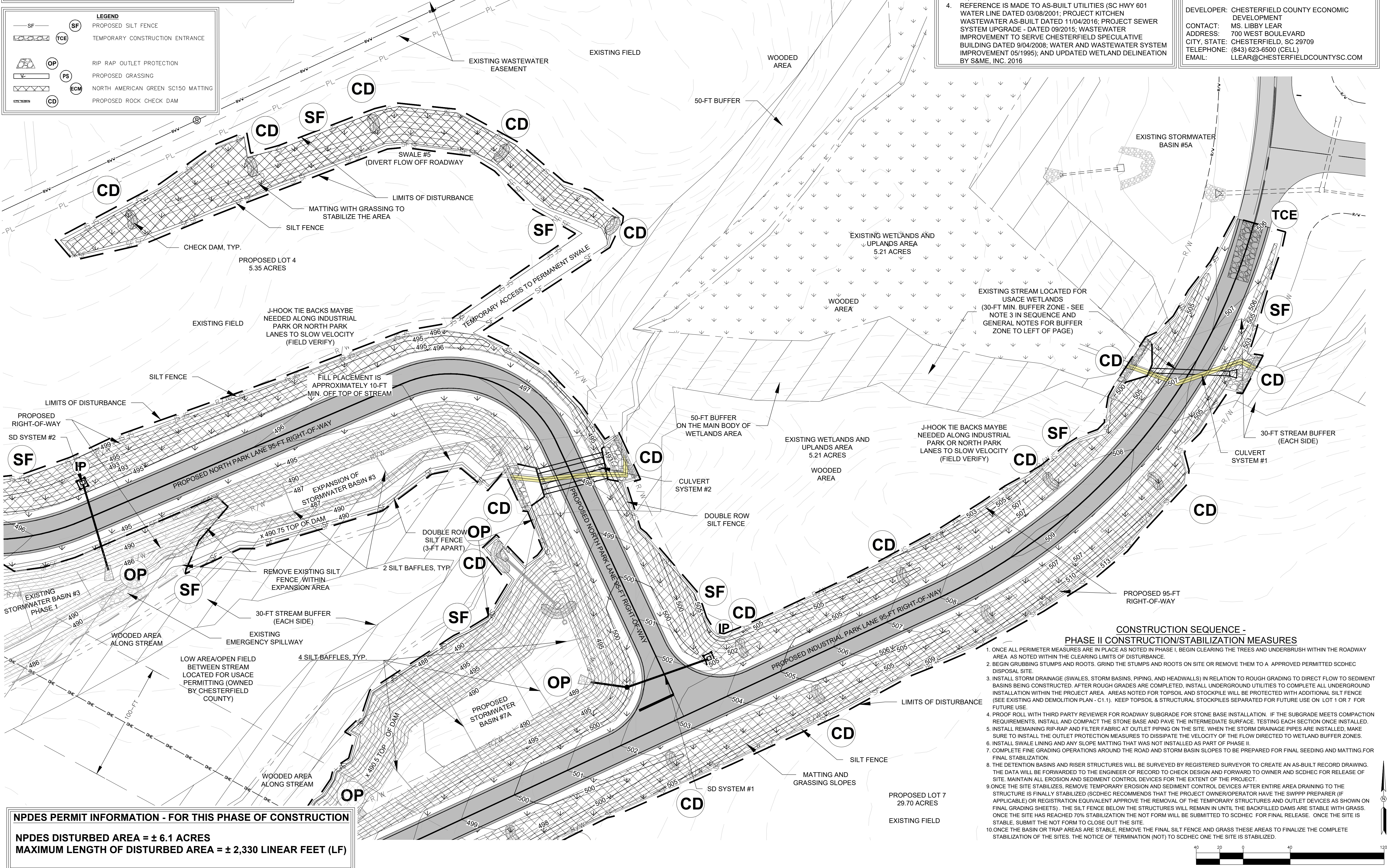
Alliance Consulting Engineers, Inc.
Post Office Box 8147, Columbia, South Carolina 29202-8147
Phone (803) 779-2078 • Fax (803) 779-2079

PROJECT: SEDIMENT AND EROSION CONTROL PLAN - PHASE II

DATE: SEPTEMBER 2023

SCALE: 1" = 40'

CONSTRUCTION PLAN SET ± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND	FILE NAME: C5.2.dwg	SHEET C5.3
	REFERENCE FILE: 22202-0013 BASE.dwg	
	PROJECT NO. 22202-0013	
	DWG NO. 01.1648-D28	

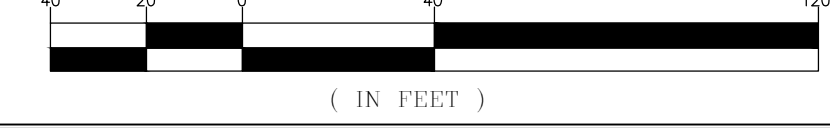


NPDES PERMIT INFORMATION - FOR THIS PHASE OF CONSTRUCTION

NPDES DISTURBED AREA = ± 6.1 ACRES

MAXIMUM LENGTH OF DISTURBED AREA = ± 2,330 LINEAR FEET (LF)

- CONSTRUCTION SEQUENCE - PHASE II CONSTRUCTION/STABILIZATION MEASURES**
1. ONCE ALL PERIMETER MEASURES ARE IN PLACE AS NOTED IN PHASE I, BEGIN CLEARING THE TREES AND UNDERBRUSH WITHIN THE ROADWAY AREA AS NOTED WITHIN THE CLEARING LIMITS OF DISTURBANCE.
 2. BEGIN GRUBBING STUMPS AND ROOTS. GRIND THE STUMPS AND ROOTS ON SITE OR REMOVE THEM TO A APPROVED PERMITTED SCDEC DISPOSAL SITE.
 3. INSTALL STORM DRAINAGE (SWALES, STORM BASINS, PIPING, AND HEADWALLS) IN RELATION TO ROUGH GRADING TO DIRECT FLOW TO SEDIMENT BASINS BEING CONSTRUCTED. AFTER ROUGH GRADES ARE COMPLETED, INSTALL UNDERGROUND UTILITIES TO COMPLETE ALL UNDERGROUND INSTALLATION WITHIN THE PROJECT AREA. AREAS NOTED FOR TOPSOIL AND STOCKPILE WILL BE PROTECTED WITH ADDITIONAL SILT FENCE (SEE EXISTING AND DEMOLITION PLAN - C1.1). KEEP TOPSOIL & STRUCTURAL STOCKPILES SEPARATED FOR FUTURE USE ON LOT 1 OR 7 FOR FUTURE USE.
 4. PROOF ROLL WITH THIRD PARTY REVIEWER FOR ROADWAY SUBGRADE FOR STONE BASE INSTALLATION. IF THE SUBGRADE MEETS COMPACTION REQUIREMENTS, INSTALL AND COMPACT THE STONE BASE AND PAVE THE INTERMEDIATE SURFACE. TESTING EACH SECTION ONCE INSTALLED.
 5. INSTALL REMAINING RIP-RAP AND FILTER FABRIC AT OUTLET PIPING ON THE SITE. WHEN THE STORM DRAINAGE PIPES ARE INSTALLED, MAKE SURE TO INSTALL THE OUTLET PROTECTION MEASURES TO DISSIPATE THE VELOCITY OF THE FLOW DIRECTED TO WETLAND BUFFER ZONES.
 6. INSTALL SWALES LININGS AND ANY SLOPE MATTING THAT WAS NOT INSTALLED AS PART OF PHASE II.
 7. COMPLETE FINE GRADING OPERATIONS AROUND THE ROAD AND STORM BASIN SLOPES TO BE PREPARED FOR FINAL SEEDING AND MATTING FOR FINAL STABILIZATION.
 8. THE DETENTION BASINS AND RISER STRUCTURES WILL BE SURVEYED BY REGISTERED SURVEYOR TO CREATE AN AS-BUILT RECORD DRAWING. THE DATA WILL BE FORWARDED TO THE ENGINEER OF RECORD TO CHECK DESIGN AND FORWARD TO OWNER AND SCDEC FOR RELEASE OF SITE. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.
 9. ONCE THE SITE STABILIZES, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED. SCDEC RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER (IF APPLICABLE) OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF THE TEMPORARY STRUCTURES AND OUTLET DEVICES AS SHOWN ON FINAL GRADING SHEETS). THE SILT FENCE BELOW THE STRUCTURES WILL REMAIN UNTIL THE BACKFILLED DAMS ARE STABLE WITH GRASS. ONCE THE SITE HAS REACHED 70% STABILIZATION THE NOT FORM WILL BE SUBMITTED TO SCDEC FOR FINAL RELEASE. ONCE THE SITE IS STABLE, SUBMIT THE NOT FORM TO CLOSE OUT THE SITE.
 10. ONCE THE BASIN OR TRAP AREAS ARE STABLE, REMOVE THE FINAL SILT FENCE AND GRASS THESE AREAS TO FINALIZE THE COMPLETE STABILIZATION OF THE SITES. THE NOTICE OF TERMINATION (NOT) TO SCDEC ONE THE SITE IS STABILIZED.



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

LEGEND	
SF	PROPOSED SILT FENCE
TCE	TEMPORARY CONSTRUCTION ENTRANCE
OP	RIP RAP OUTLET PROTECTION
PS	PROPOSED GRASSING
ECM	NORTH AMERICAN GREEN SC150 MATTING
CD	PROPOSED ROCK CHECK DAM

NPDES PERMIT INFORMATION - FOR THIS PHASE OF CONSTRUCTION
NPDES DISTURBED AREA = ± 6.1 ACRES
MAXIMUM LENGTH OF DISTURBED AREA = ± 2,330 LINEAR FEET (LF)

- WETLAND BUFFER ZONE NOTES:**
1. FLAGGING OF THE WETLAND BUFFER ZONE MUST BE COMPLETED PRIOR TO ANY LAND DISTURBING ACTIVITIES, INCLUDING THE INSTALLATION OF ANY BEST MANAGEMENT PRACTICES (BMP).
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TELEPHONE:	(843) 623-6500 (CELL) (843) 623-6500 (OFFICE)
EMAIL:	LLEAR@CHESTERFIELDCOUNTYSC.COM

REVISION DATE	

APPROVALS:
 ENGINEER: [Signature]
 DESIGNER: [Signature]
 CHECKED BY: [Signature]
 APPROVED: [Signature]

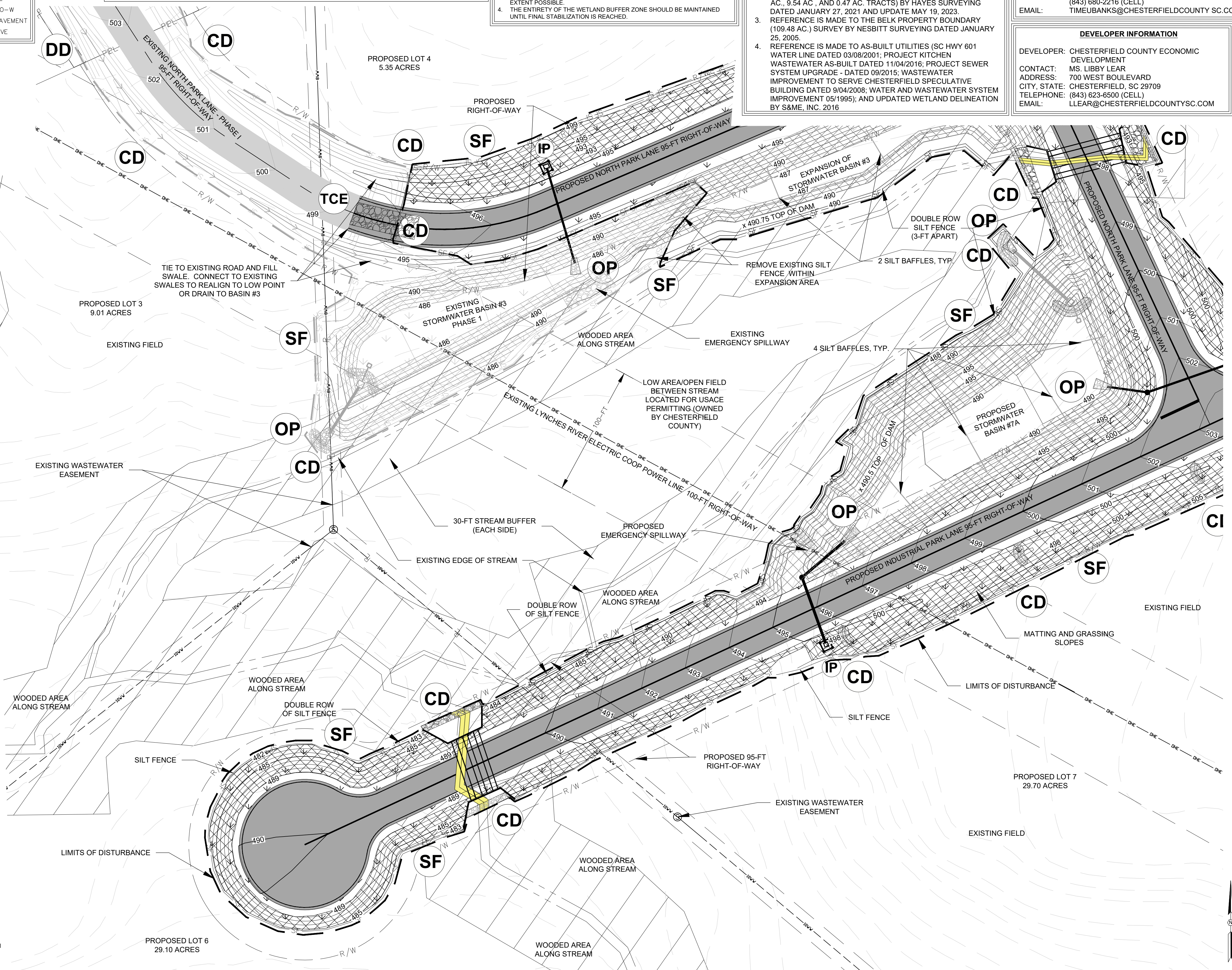
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 DATE: 10/19/23

ALLIANCE CONSULTING ENGINEERS
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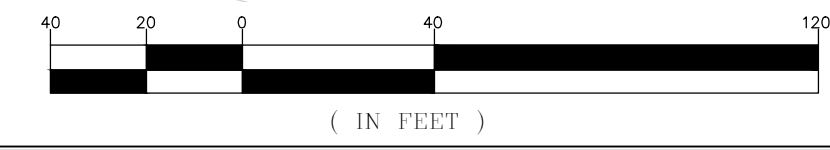
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 SCALE: 1" = 40'
 DATE: SEPTEMBER 2023
 PROJECT: [Blank]

CONSTRUCTION PLAN SET
 ± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND
 CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C5.2.dwg
 REFERENCE FILE: 22202-0013 BASE.dwg
 PROJECT NO: 22202-0013
 SHEET: C5.4
 DWG NO. 01.1648-D28

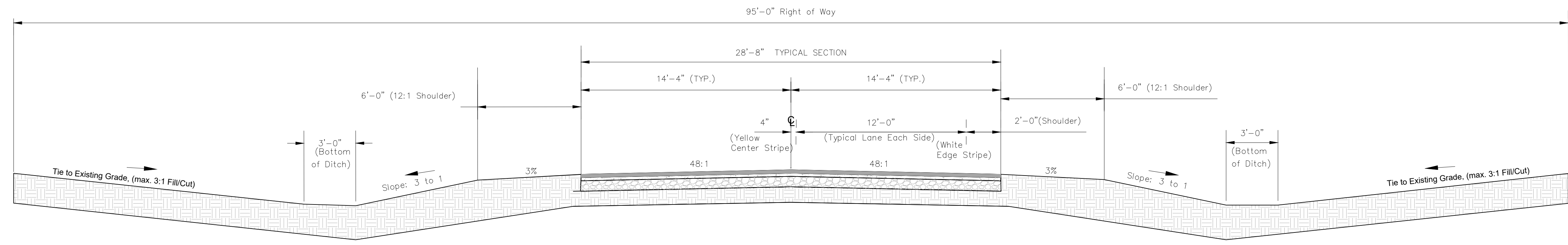


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 7. COMPLETE FINE GRADING OPERATIONS AROUND THE ROAD AND STORM BASIN SLOPES TO BE PREPARED FOR FINAL SEEDING AND MATTING FOR FINAL STABILIZATION.
 8. THE DETENTION BASINS AND RISER STRUCTURES WILL BE SURVEYED BY REGISTERED SURVEYOR TO CREATE AN AS-BUILT RECORD DRAWING. THE DATA WILL BE FORWARDED TO THE ENGINEER OF RECORD TO CHECK DESIGN AND FORWARD TO OWNER AND SCDHEC FOR RELEASE OF SITE. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES FOR THE EXTENT OF THE PROJECT.
 9. ONCE THE SITE STABILIZES, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED (SCDHEC RECOMMENDS THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER (IF APPLICABLE) OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF THE TEMPORARY STRUCTURES AND OUTLET DEVICES AS SHOWN ON FINAL GRADING SHEETS). THE SILT FENCE BELOW THE STRUCTURES WILL REMAIN UNTIL THE BACKFILLED DAMS ARE STABLE WITH GRASS. ONCE THE SITE HAS REACHED 70% STABILIZATION THE NOT FORM WILL BE SUBMITTED TO SCDHEC FOR FINAL RELEASE. ONCE THE SITE IS STABLE, SUBMIT THE NOT FORM TO CLOSE OUT THE SITE.
 10. ONCE THE BASIN OR TRAP AREAS ARE STABLE, REMOVE THE FINAL SILT FENCE AND GRASS THESE AREAS TO FINALIZE THE COMPLETE STABILIZATION OF THE SITES. THE NOTICE OF TERMINATION (NOT) TO SCDHEC ONE THE SITE IS STABILIZED.

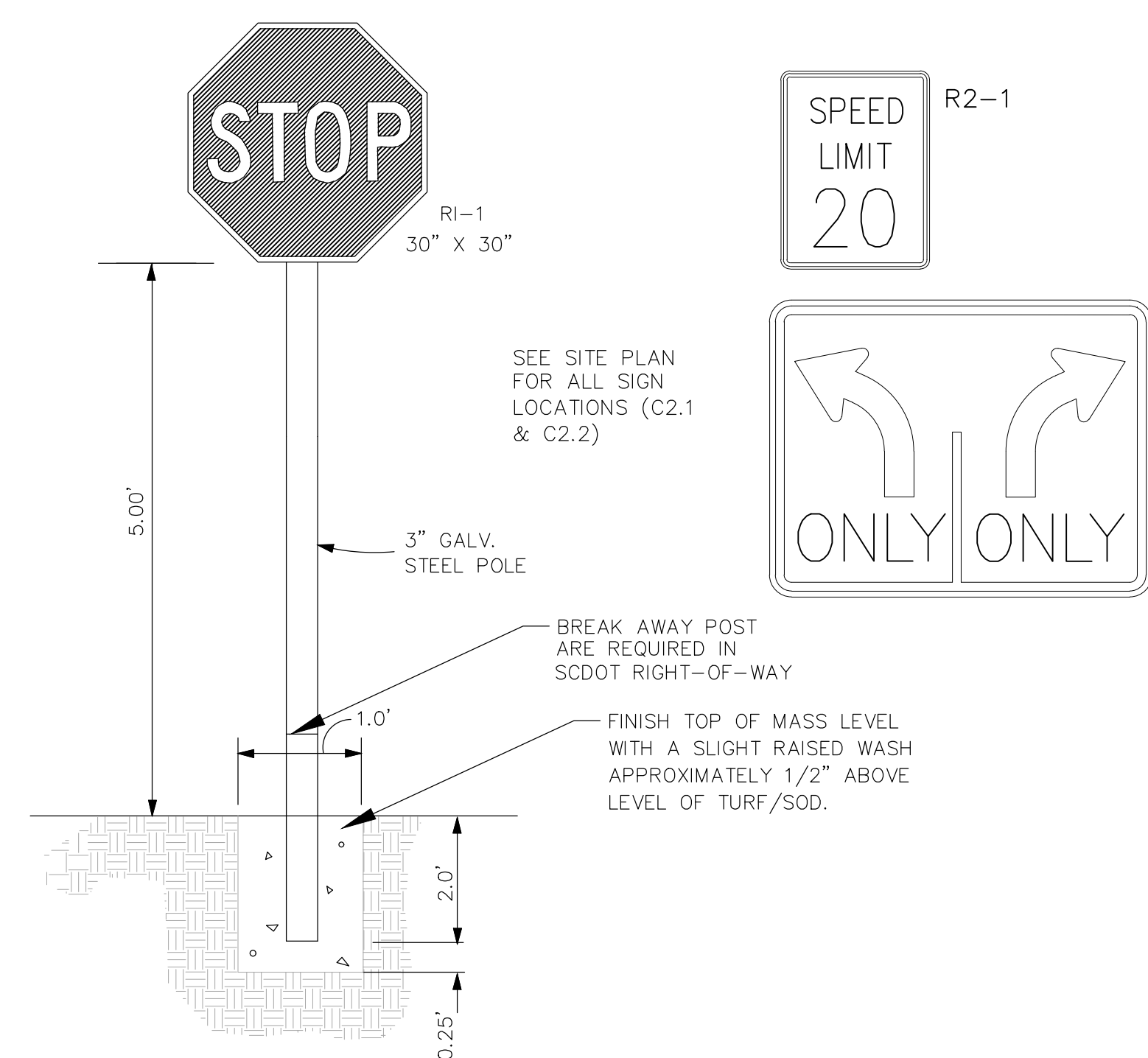


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October 09, 2023 - 11:22:20 AM S:\Projects\22202-0013 Ph IIA Entrance Rwy Exc & Ph IIB Secondary Rwy Lynchies Riv Ind Pk South Chesterfield Colong\Construction Plans\Construction Plans\C-6.0 Site Details.dwg

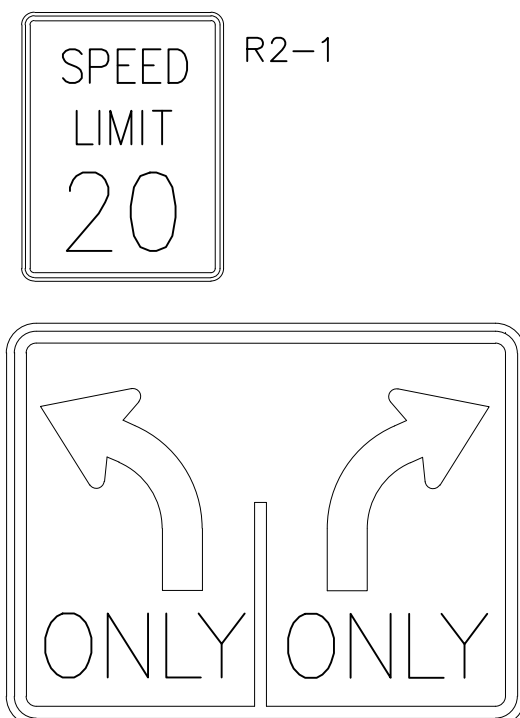


**TYPICAL ROADWAY SECTION
INDUSTRIAL PARK LANE
AND NORTH PARK LANE**

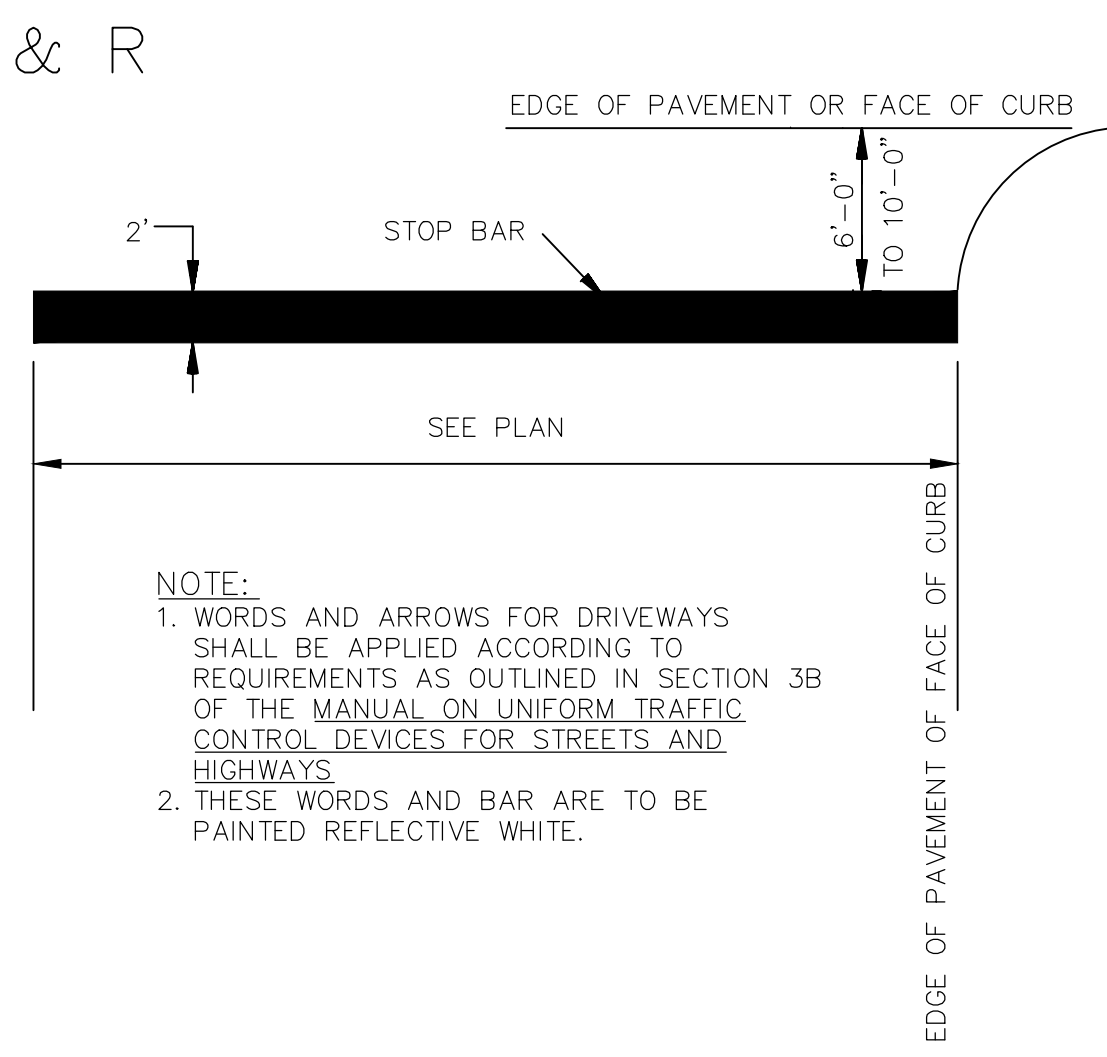


NOTES:
1. ALL SIGNS SHALL CONFORM WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR COLOR, SIZE, REFLECTIVITY, AND HEIGHT.
2. SIGNS TO BE PLACED AS SHOWN ON PLAN.

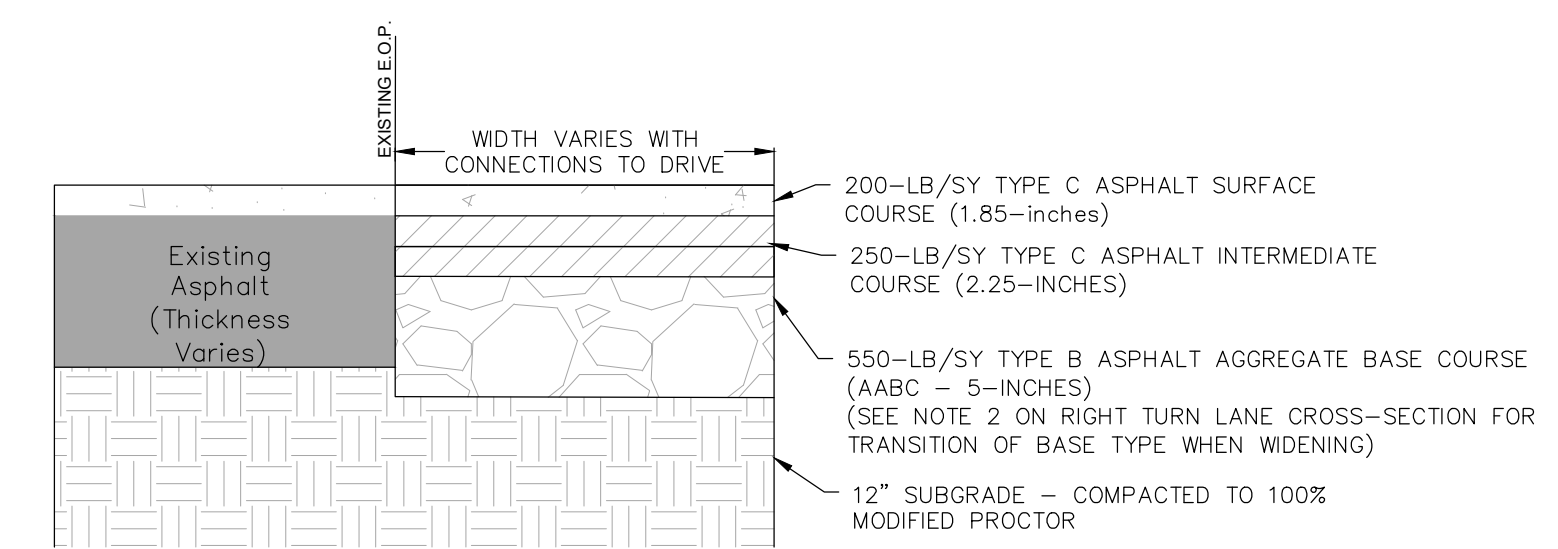
TYPICAL SIGN DETAIL
(NOT TO SCALE)



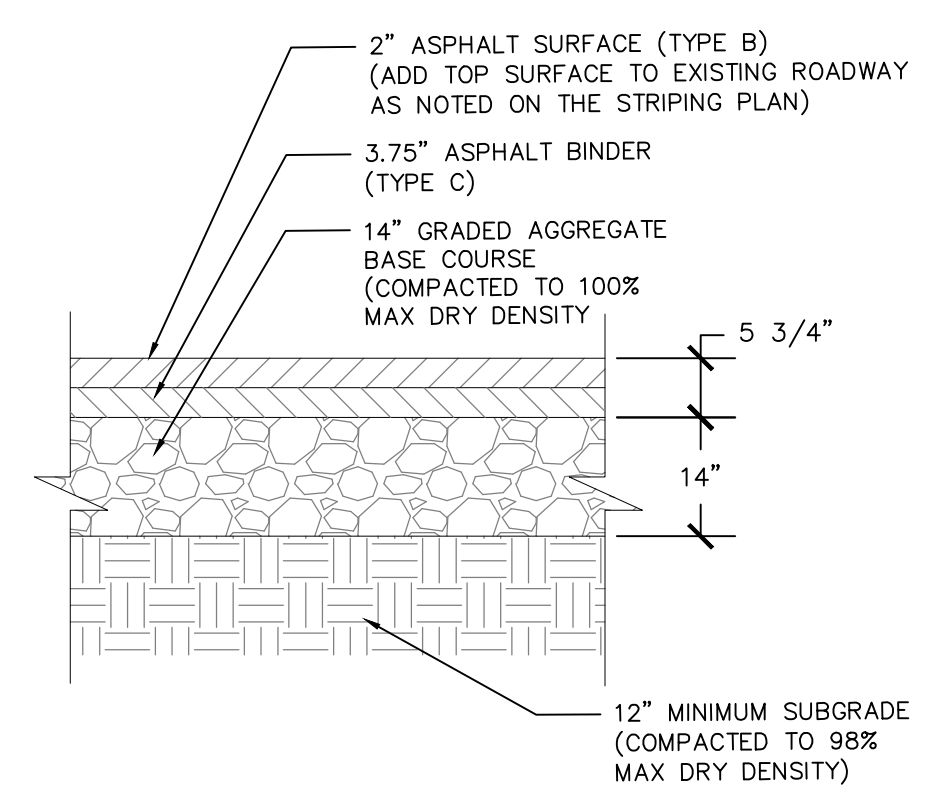
NOTE:
- FOR DIRECTIONAL ARROWS AND WORDS FOR FINAL STRIPING AT MAIN ENTRANCE USE SCDOT STANDARD DRAWING 625-410-00 AND THERMOPLASTIC STRIPING TO END OF TRANSITION - STANDARD STRIPE PAINTING WILL BE USED BEYOND THE TURN LANE TRANSITION AND THROUGHOUT DEVELOPMENT



STOP BAR DETAIL
(NOT TO SCALE)

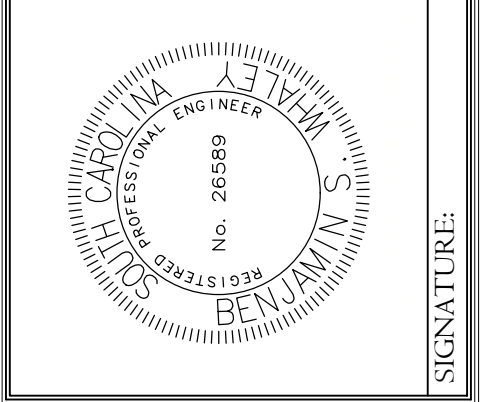
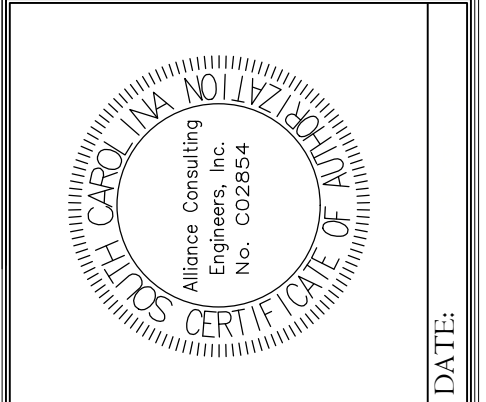


NOTE:
1. FULL DEPTH ASPHALT SECTION TO BE USED FOR TAPER SECTION.
2. FOR WIDENING OF 0' TO 6' WIDE - USE 5-INCHES OF HMA TYPE BASE IN LIEU OF 700-LB/SY OF AABC.
3. THE PAVEMENT DETAIL IS FOR DRIVEWAY AND PAVED SHOULDER WITHIN THE SCDOT RIGHT-OF-WAY AREA ONLY.



NOTE:
1. THE ROADWAY PAVEMENT SECTION IS BASED ON THE GEOTECHNICAL SUBSURFACE EXPLORATION - REV 1 LYNCHIES RIVE INDUSTRIAL PARK ROADWAYS AND STORMWATER REPORT PROVIDED BY S&M, INC. - REPORT NUMBER: 206150 DATED MARCH 12, 2021
2. ALTERNATE PAVEMENT SECTION WITH CEMENT SOIL MODIFICATION:
- 8-INCH CEMENT SOIL
- 8-INCH STONE BASE
- 3.5-INCH ASPHALT BINDER COURSE
- 2-INCH ASPHALT SURFACE COURSE

REVISION	
NO.	DATE



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Alliance Consulting Engineers, Inc.
22202-0013
Post Office Box 20179 • Fax: (803) 779-2079

SITE DETAILS

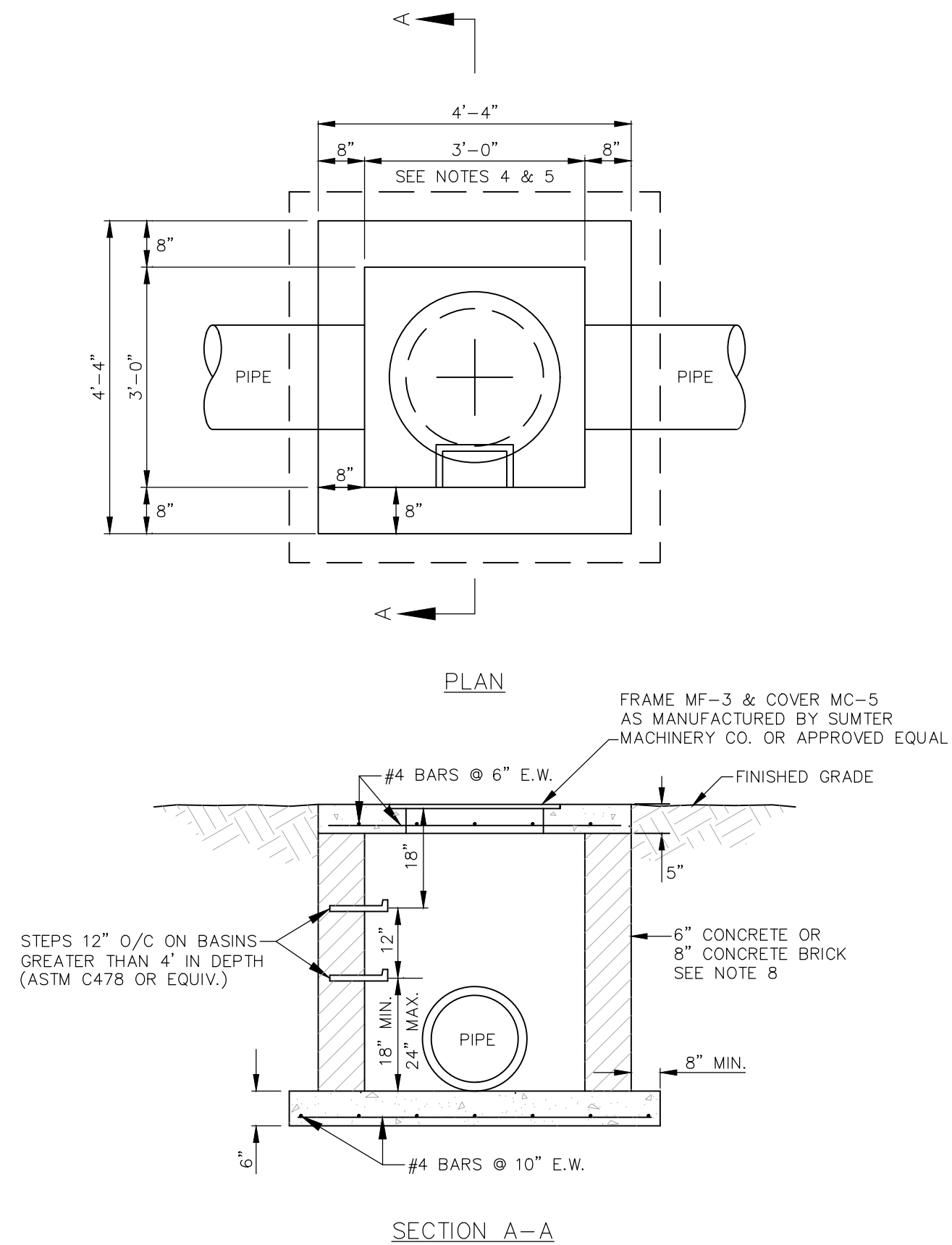
CONSTRUCTION PLAN SET
± 1,530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1,425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAgELAND CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME: C6.0.DWG	SHEET C6.0
REFERENCE FILE: 22202-0013 BASE.dwg	
PROJECT NO. 22202-0013	

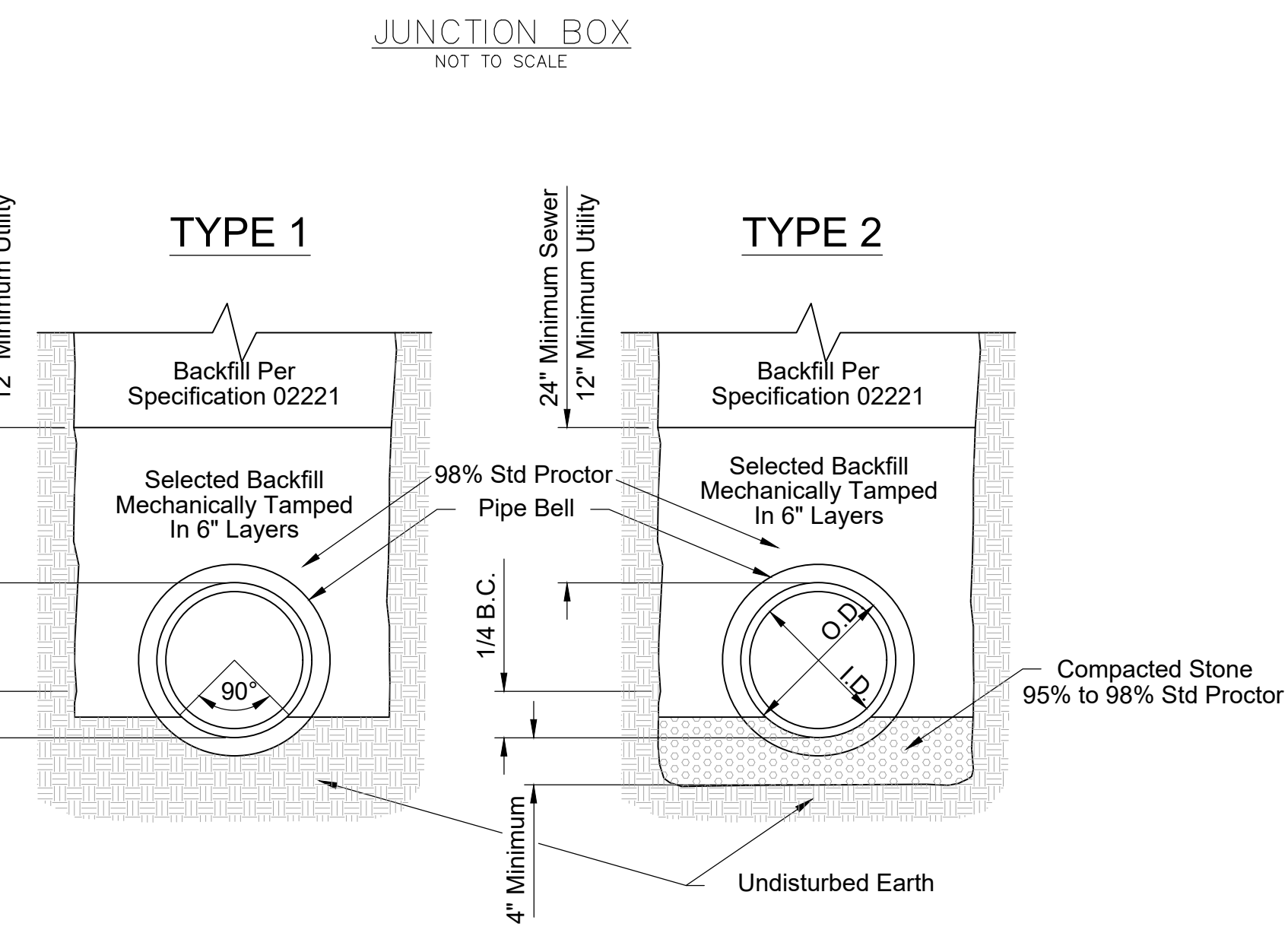
DWG NO. 01,1648-D28

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October 06, 2023 - 11:32:26 AM S:\Projects\22202-0013\101\A\Entrance\Rawlyn\Arch\Ph.IB.Secondary\Rawlyn\Arch\Ph.IB.Secondary\Storm Drainage Detail Sheets.dwg

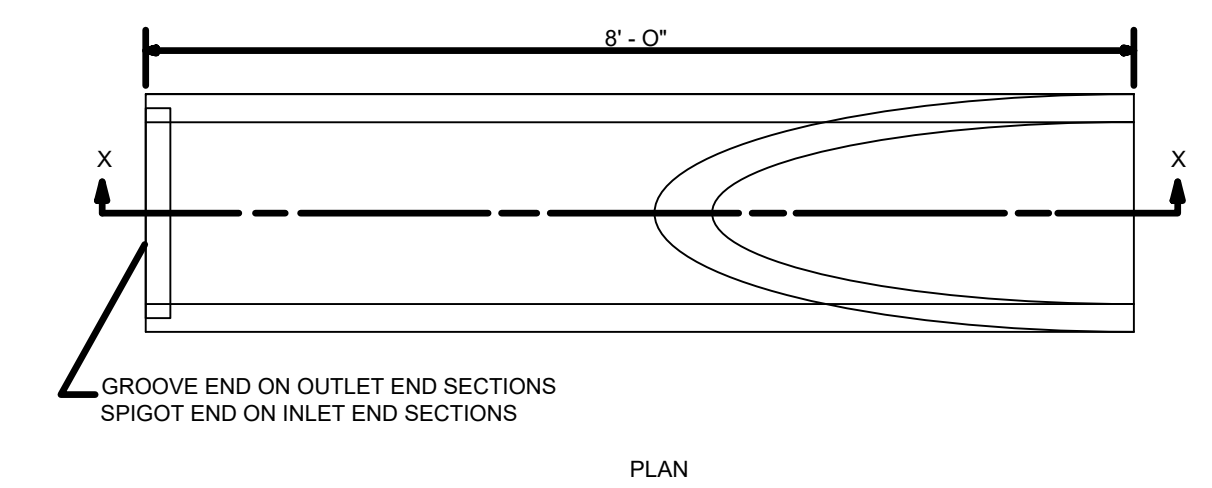


- NOTES:**
1. ALL CONCRETE SHALL BE 3,000 PSI.
 2. ENDS OF ALL PIPES SHALL BE FLUSH WITH INSIDE WALL.
 3. ALL STEEL BARS SHALL BE PLACED 1-1/2" CLEAR FROM BOTTOM AND SIDES OF SLAB.
 4. FOR PIPES UP TO 24" I.D. USE 3'-0" x 3'-0" BOX.
 5. FOR PIPES OVER 24" I.D. BOX INSIDE DIMENSIONS SHALL BE PIPE O.D. + 6" EACH SIDE OF PIPE.
 6. ALL STEPS SHALL PROTRUDE 4" FROM THE INSIDE FACE OF STRUCTURE WALL.
 7. CONCRETE BRICK WALLS SHALL HAVE A 1/4" MORTAR COAT ON INSIDE SURFACE.
 8. WALL THICKNESS IS TO BE 12" IF BOX DEPTH EXCEEDS 12'-0".
 9. ALL MATERIALS AND CONSTRUCTION ARE TO COMPLY WITH SECTION 720 OF THE SCDPT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 10. REINFORCED CONCRETE MAY BE SUBSTITUTED FOR BRICK WALLS. REINFORCING TO BE #4 BARS @ 12" E.W.



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

CLASS "C" BEDDING
NTS

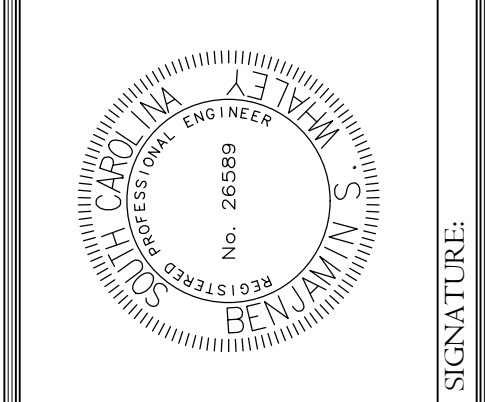
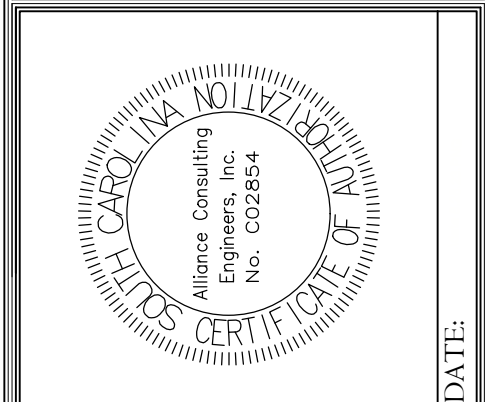


- NOTES:**
1. BEVELED END SECTIONS WILL BE MANUFACTURED IN ACCORDANCE WITH SECTION 714 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THESE SPECIAL PIPE SECTIONS WILL BE MADE DURING THE MANUFACTURING OF OTHER STATE APPROVED REINFORCED CONCRETE PIPE.
 2. THE PIPE BEVEL MAY BE SAWS IN THE FIELD IN LIEU OF BEING MANUFACTURED. IN FIELD SAWING THE PIPE OPENING MAY COME TO A POINT AT THE PIPE CREST RATHER THAN A RADIUS AS SHOWN ON THE DRAWING. ALTERNATE PIPE FOR SIDELINES MUST HAVE EACH END BEVELED TO MATCH THE ADJACENT SLOPES. NO SEPARATE PAYMENT WILL BE MADE FOR PROVIDING THESE BEVELED ENDS.
 3. BEVELED ENDS ON ALUMINUM AND HDPE PIPE ARE TO CONFORM TO DIMENSIONS SHOWN FOR CONCRETE PIPE.
 4. WHEN AN ALTERNATE OF CORRUGATED ALUMINUM ALLOY PIPE IS SELECTED FOR USE, THE DIAMETERS WILL BE ONE STANDARD PIPE SIZE LARGER THAN REINFORCED CONCRETE PIPE.
 5. TOTAL LINE LENGTH OF ALTERNATE ALUMINUM AND HDPE PIPE MAY BE PLACED IN ONE OR TWO LENGTHS AT THE DISCRETION OF THE CONTRACTOR.
 6. PAYMENT FOR BEVELED END SECTIONS WILL BE AS DIRECTED IN THE PLANS OR IN SPECIAL PROVISIONS. WHEN PAYMENT IS TO BE MADE, THE BID ITEM SHALL BE:
24" RCP PIPE CULVERT BEVELED END SECTION CLASS C OR 26" - L.F.
CLASS OR PROCESS.

END SECTION DIMENSIONS			
DIA.	A	B	SLOPE
15"	0'-6"	3'-0"	4:1
18"	0'-9"	3'-0"	4:1
24"	0'-10"	4'-8"	4:1
30"	1'-0"	4'-6"	3:1
36"	1'-3"	5'-3"	3:1
42"	1'-8"	5'-6"	3:1
48"	2'-0"	6'-0"	3:1

STANDARD DRAWING
DRAWING NO. 714-1
BEVELED END SECTIONS FOR
CONCRETE PIPE CULVERT
OCTOBER 2008

REVISION	
NO.	DATE

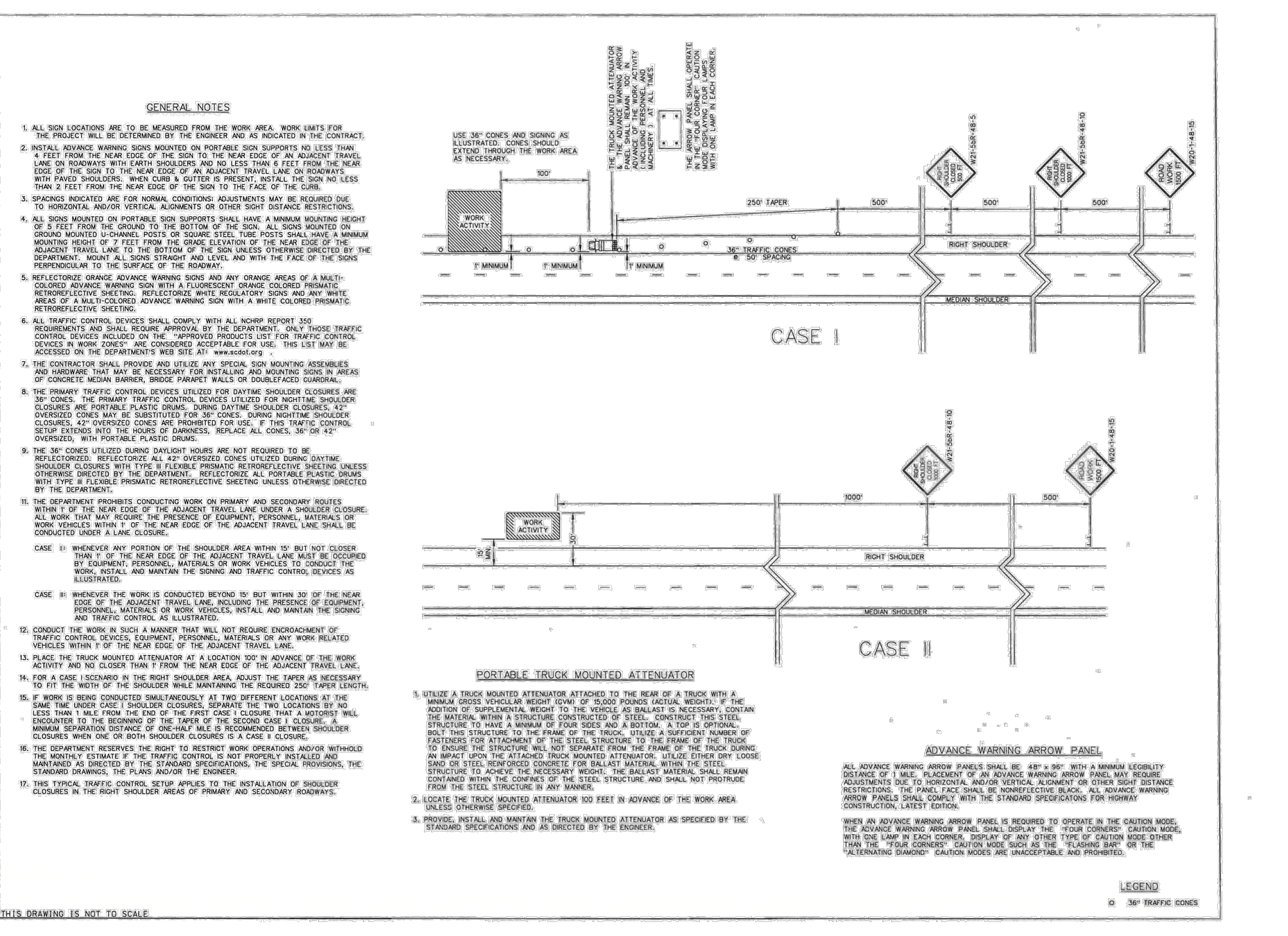


ALLIANCE CONSULTING ENGINEERS
Alliance Consulting Engineers, Inc.
Post Office Box 8147, Columbia, South Carolina 29202-8147
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WORK ZONE TRAFFIC CONTROL ENGINEER
SOUTH CAROLINA PROFESSIONAL ENGINEER
LICENSE NO. 24242
WILLIE E. MCCONNELL, JR.
DATE: 8/2/12

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 LISTING DATE: 5/11/10 THIS DRAWING IS NOT TO SCALE



PROJECT:
CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY SOUTH CAROLINA

FILE NAME:
C7.0.DWG

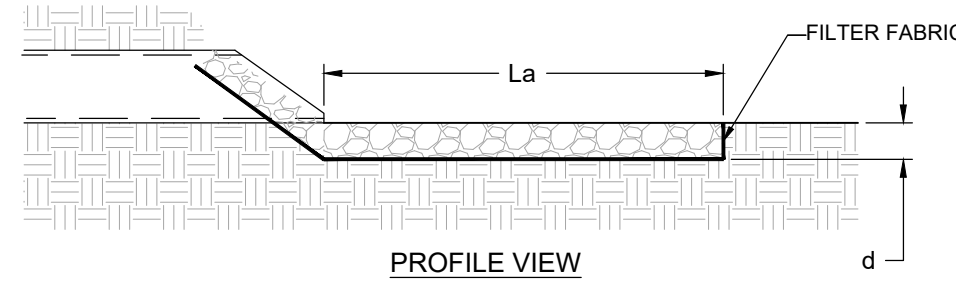
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22202-0013
BASE.DWG

PROJECT NO.:
22202-0013

SHEET:
C7.0

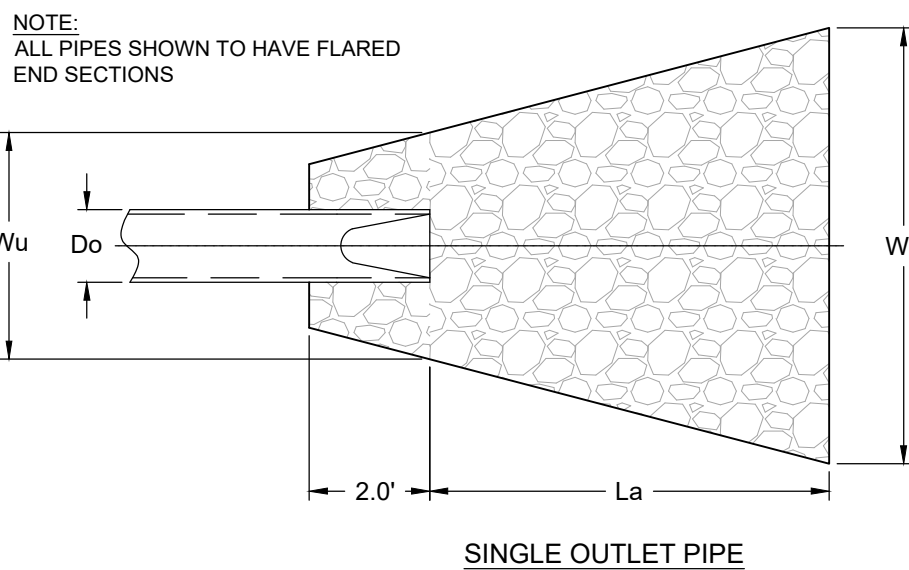
DWG NO. 01.1648-D28

SCALAR'S SHOWN
DATE: SEPTEMBER 2023

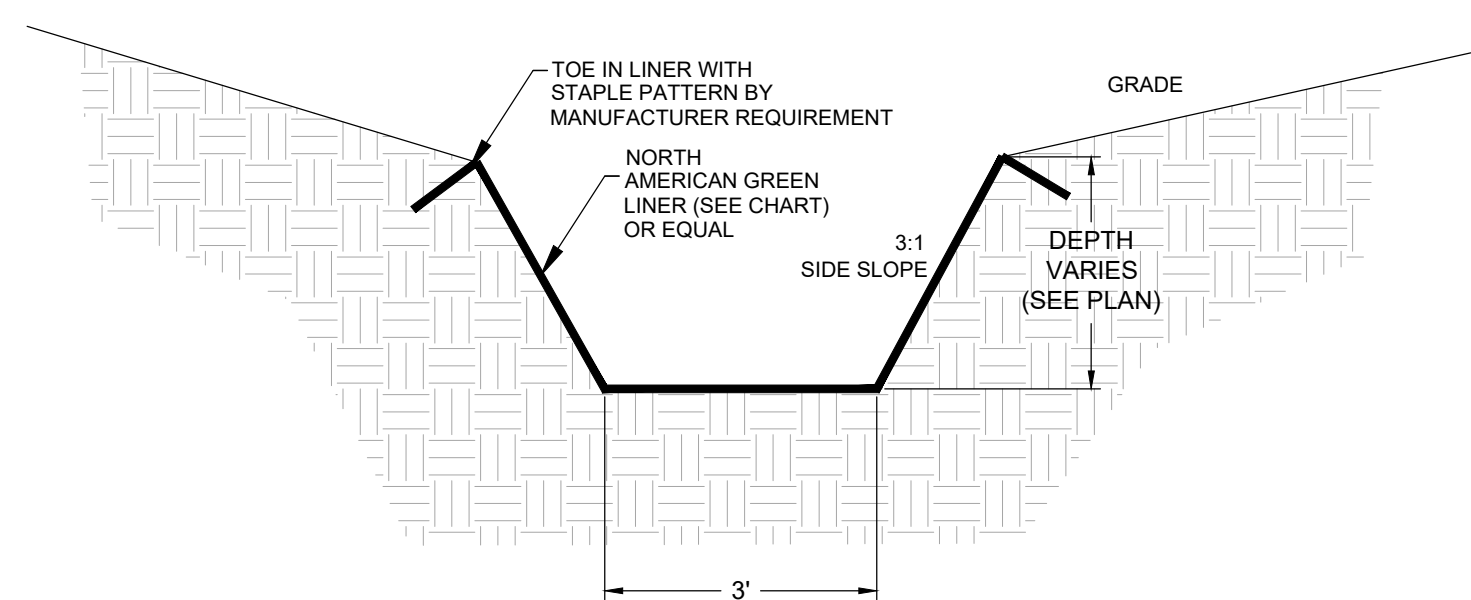


Rip-Rap Outlet Protection Chart

Outlet Pipe	Outlet Pipe Diameter, Do (inches)	10 Year Storm Outflow, (cfs)	Apron Length, La (ft)	Average Rock Diameter, d50 (feet)	Upstream Protection Width, Wu (feet)	Downstream Protection Width, Wd (feet)
BES 1.2	18	3.33	9	0.50	4.5	14.0
BES 2	18	7.61	10	0.66	4.5	14.0
BES 3	24	14.70	12	0.75	6.0	18.0
CULVERT 1	48	77.49	17	0.50	HEADWALL	18.8
CULVERT 2	36	101.10	17	0.50	HEADWALL	18.8
CULVERT 3	48	95.70	17	0.50	HEADWALL	18.8
BASIN 7A	18	3.31	10	0.66	4	14
BASIN 3	24	20.85	11	0.50	6	13



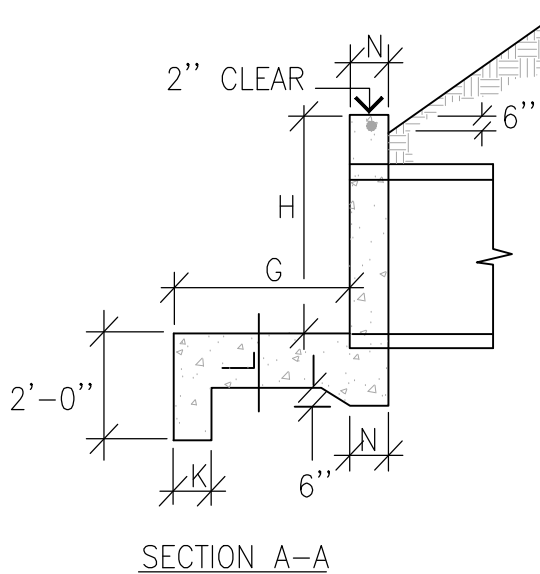
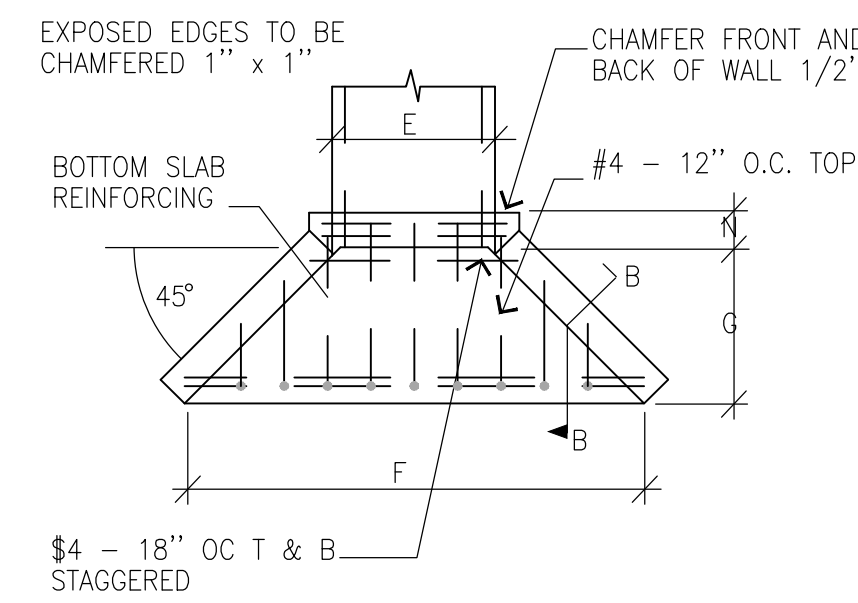
RIP RAP OUTLET PROTECTION DETAIL
NOT TO SCALE



Swale Chart

Swale #	10 Year Storm Outflow, (cfs)	Mating type or equal value
1	10.76	SC150
2	2.59	S150
4	5.56	SC250
4A	15.91	S150
5	30.76	SC150
6	2.25	S150

TYPICAL SWALE
N.T.S.



HEADWALL DIMENSIONS

#PIPES	D	E	F	G	H	J	K	L	N	R
1	48"	8'-0"	VARIES*	VARIES*	VARIES*	VARIES*	10"	12"	14"	#6-8" OC
3	48"	8'-0"	VARIES*	VARIES*	VARIES*	VARIES*	10"	12"	14"	#6-8" OC

THE CULVERT CROSSING SPACE WILL BE AT MINIMUM OF 48-INCH BETWEEN OUTSIDE DIAMETER OF PIPE. ANGLE, HEIGHT, AND WIDTH FOR EACH HEADWALL WILL VARY DUE TO ANGLE OF CREEK CROSSING - SEE PLAN FOR EXACT ANGLE AND WIDTH PER STREAM DISTURBANCE OF WETLAND CREDIT REQUIREMENTS. STANDARD PRECAST WALLS CAN BE USED BUT WILL NEED TO BE CONFIRM TO PLAN LAYOUT. PIPE HOLES MAY NEED TO BE LARGER FOR PIPE ANGLE. SHOP DRAWINGS WILL BE REVIEWED FOR APPROVAL.

CONCRETE HEADWALL
NOT TO SCALE

719-305-00

STANDARD DRAWING
DRAINAGE SUBSTRUCTURE
WALL BOX

ACCEPTABLE SPLICE OPTIONS

719-305-00

719-016-02

STANDARD DRAWING
CATCH BASIN
TYPE 16

719-016-02

719-016-01

STANDARD DRAWING
CATCH BASIN
TYPE 16

719-016-01

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CONSTRUCTION PLAN SET
± 1.530-LF PHASE IIB INDUSTRIAL
PARK LANE AND ± 1425-LF OF
NORTH PARK LANE AT THE ±
139-ACRE LYNCHES RIVER
INDUSTRIAL PARK OFF DOVE
SUTTON ROAD NEAR
THE TOWN OF PAGELAND
CHESTERFIELD COUNTY, SOUTH CAROLINA

DATE: SEPTEMBER, 2023

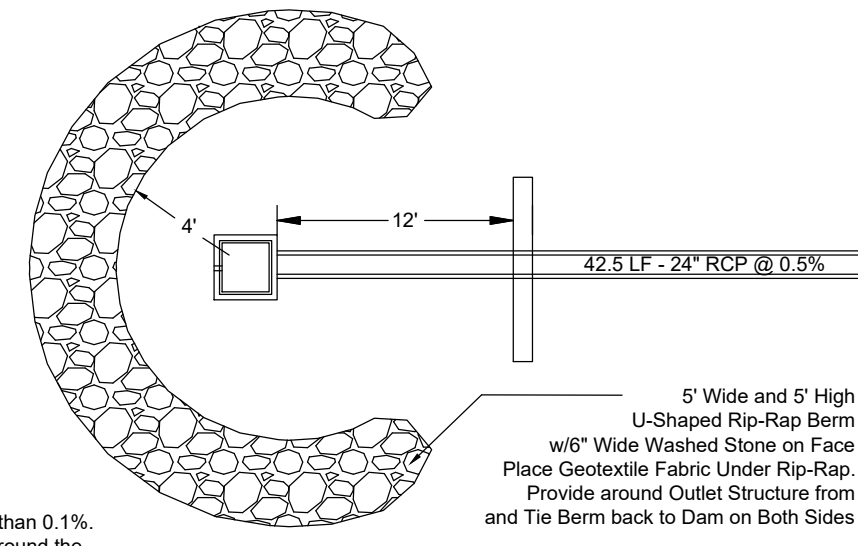
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SHEET C7.1

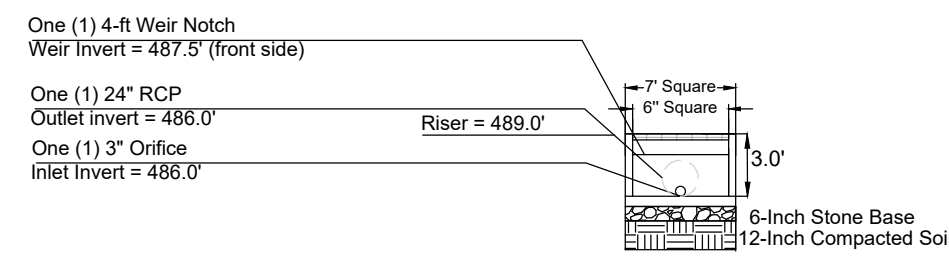
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October 06, 2023 - 11:50:10 AM S:\Projects\22202-0013 Ph. 1A, Entrance Bay, Est. & Ph. 1B, Secondary Bay, Lynchus Riv. Ind Ph. South Chesterfield Colving\Construction Plans\Construction Plans\C8.ESC Detail Sheets.dwg
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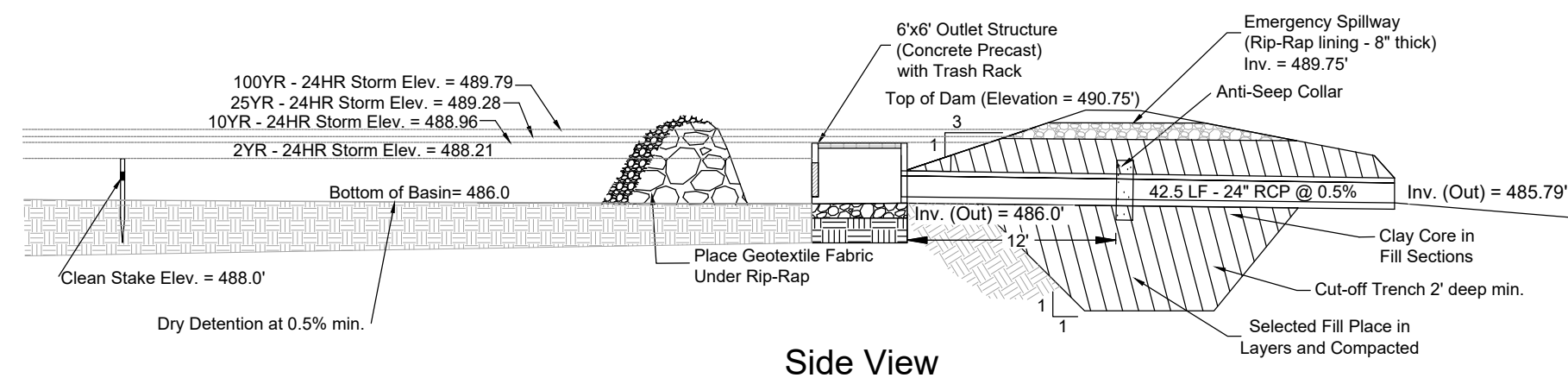
General Maintenance Notes (for both basins):
 Installation of the Riser Structure will be placed on a compacted subground with compacted stone base as noted.
 The bottom drain and weir outlet will be cut as noted in the 6-ft x 6-ft riser box as noted.
 During construction of the roadway, the skimmer will be installed and the rip rap berm will be maintained to ensure that the washed stone will be maintained with trash and sediment removal to ensure filtering of the sediment in the water.
 Once the site is stable, the skimmer will be removed. The Riprap berm will remain to filter the bottom drain.
 The bottom drain will need to be checked after each storm event to remove trash from blocking the drain and allow for release of the low flow storms.



- Notes:**
- Bottom of Basin Shall be Graded to Have a Slope of Not Less than 0.1%.
 - Cleanout stake to be installed and sediment is to be cleaned around the outlet berm once sediment reaches a height of 6\".
 - Install geo-textile fabric under emergency spillway.



Front View



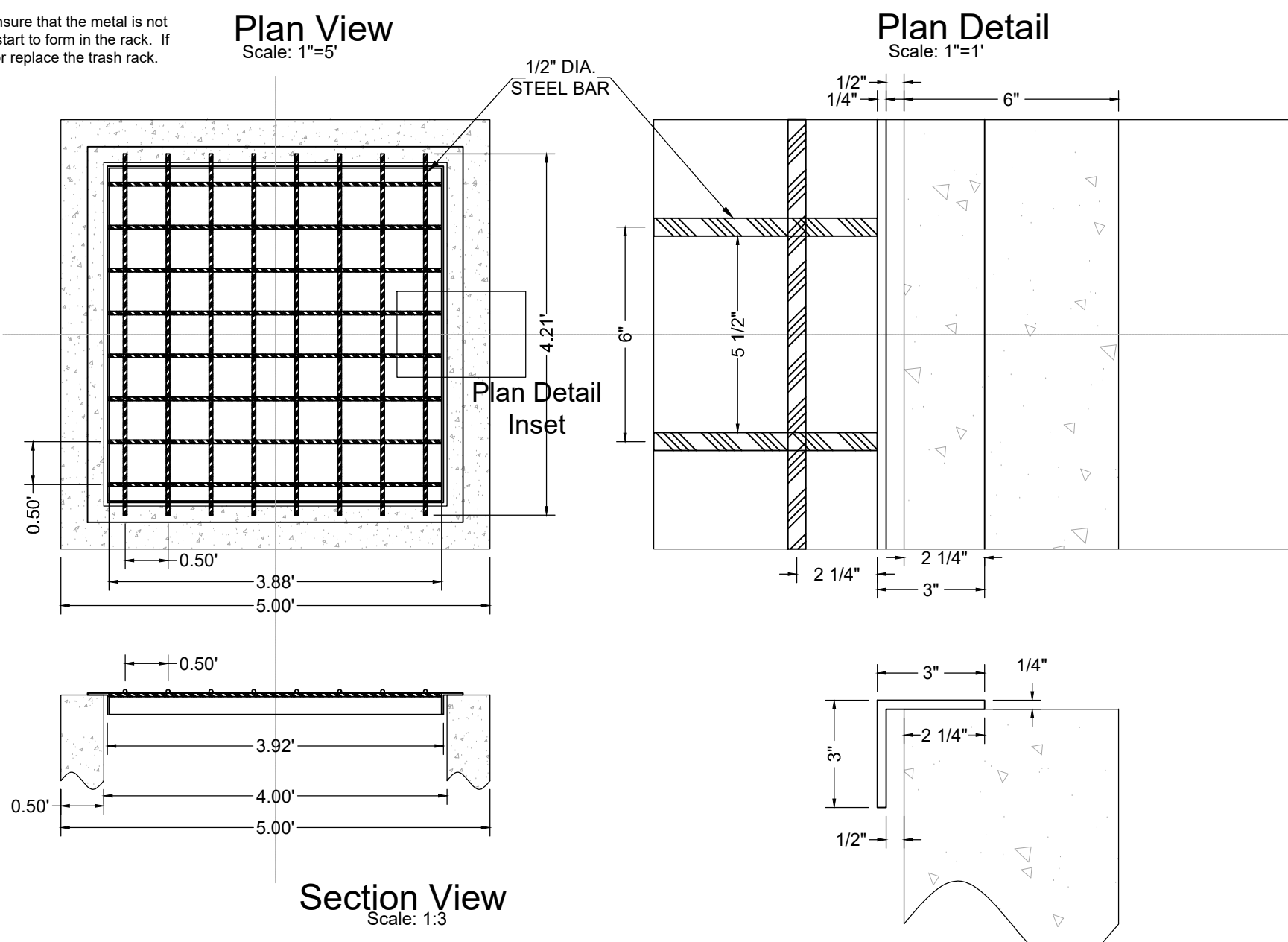
Side View

Note: Vertical Separation within the Detention Basin are:
 10 Yr. Storm Event and Emergency Spillway = 0.75'
 100 Yr. Storm Event and Top of Dam = 0.96'
 Top of Dam and Emergency Spillway = 1.0'

EXPANSION OF DRY DETENTION BASIN #3

N.T.S.

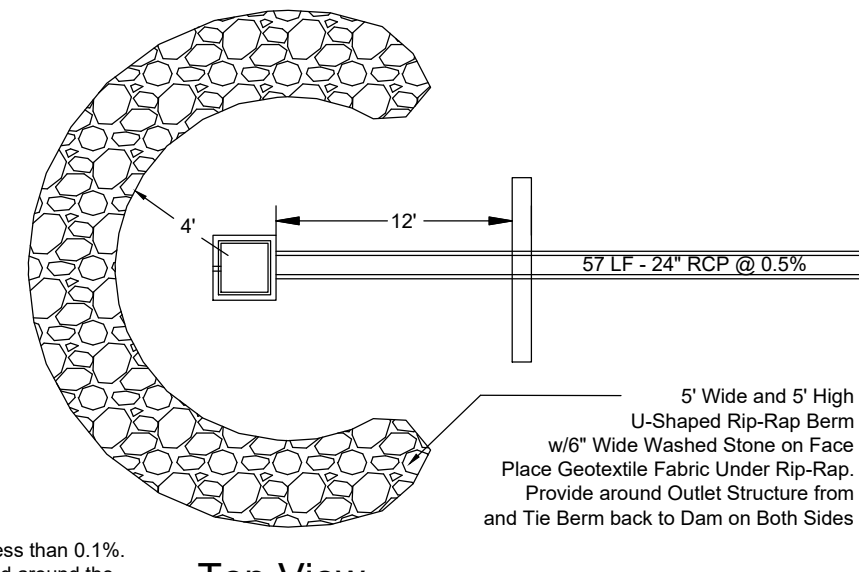
Install Trash Rack at the time of the installation of the Riser Structure. This is important to keep trash and sediment from collecting in the outlet pipe system.
 Maintain the trash rack by removing trash or debris that collects on the top after each storm event or monthly review of site.
 Review the trash rack to ensure that the metal is not rusting through and holes start to form in the rack. If holes start to form, repair or replace the trash rack.



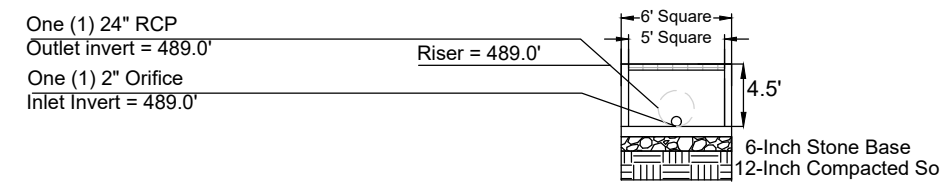
TRASH RACK FOR OUTLET STRUCTURE

Scale: As Shown

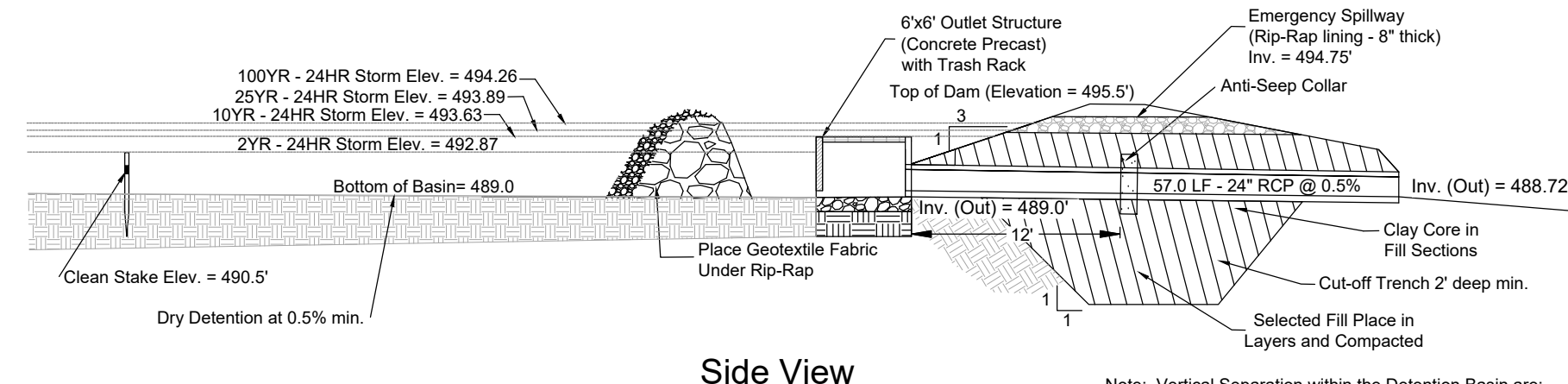
General Notes:
 For install and construction of the Rip Rap Berm. See the rock check detail on Sheet C8.1.
 The berm shall be maintained to remove trash and debris after each storm event.
 During Construction of the site, when the upstream side of the small washed stone is covered in sediment, the stone will be removed and replaced to maintain filtering properties.
 Once the site is stable and basin has settled, the stone of the berm should be a on a yearly maintenance plan for replacing of the stone as needed to maintain filtering properties.



- Notes:**
- Bottom of Basin Shall be Graded to Have a Slope of Not Less than 0.1%.
 - Cleanout stake to be installed and sediment is to be cleaned around the outlet berm once sediment reaches a height of 6\".
 - Install geo-textile fabric under emergency spillway.



Front View

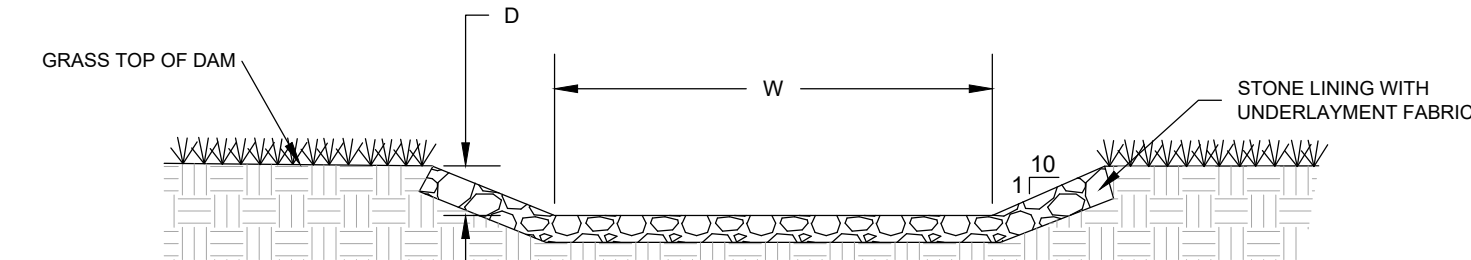


Side View

Note: Vertical Separation within the Detention Basin are:
 10 Yr. Storm Event and Emergency Spillway = 1.12'
 100 Yr. Storm Event and Top of Dam = 1.24'
 Top of Dam and Emergency Spillway = 0.75'

DRY DETENTION BASIN #7A

N.T.S.



Basin #	Width (W - ft)	Depth (D - ft)	Stone (d50-inch)
3	40	1.00	12.00
7A	10	1.2500	12.00

EMERGENCY SPILLWAY DETAIL

NOT TO SCALE

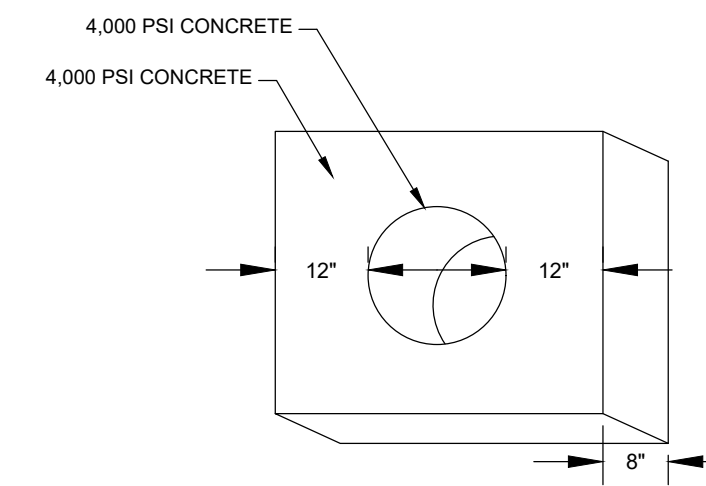
For Install and construction of the Emergency Spillway, see the Dry Detention Basin Detail on Sheet C8.1.

During Installation, ensure that the underlayment fabric is installed and tied into the soil on each side of the berm to prevent flows washing the stone and berm out.

Place the riprap stone interlocking and compacted down to ensure stone stays in place during the 100 year storm event.

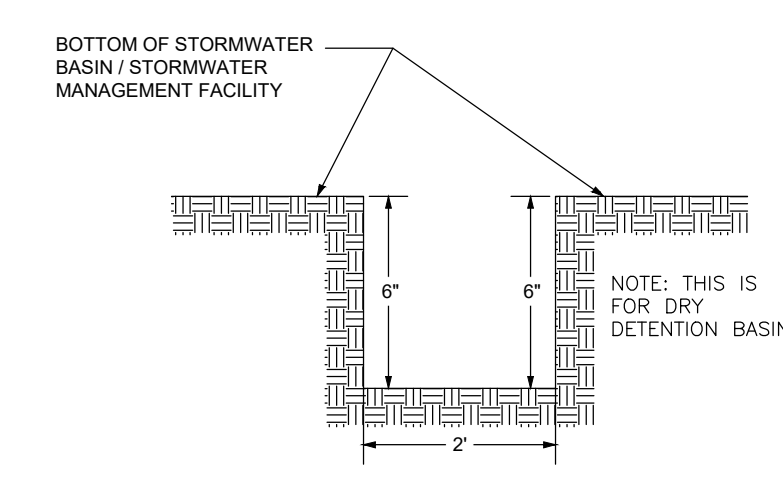
The rip-rap shall be reviewed after storm events to ensure no stones are being washed out.

If Sediment deposits over the stone, the stone should be refreshed.



ANTI-SEEP COLLAR

N.T.S.

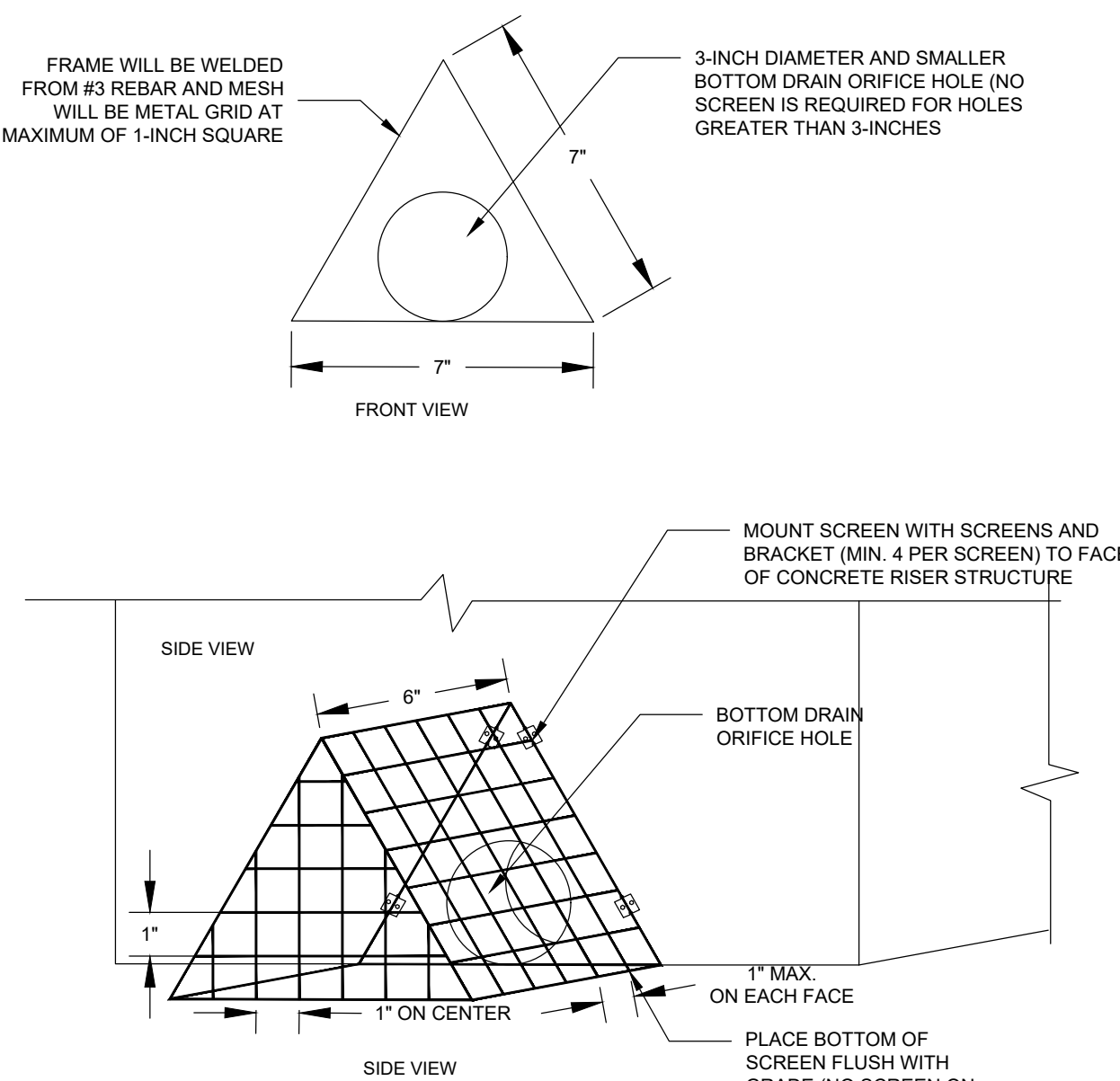


LOW FLOW CHANNEL DETAIL

NOT TO SCALE

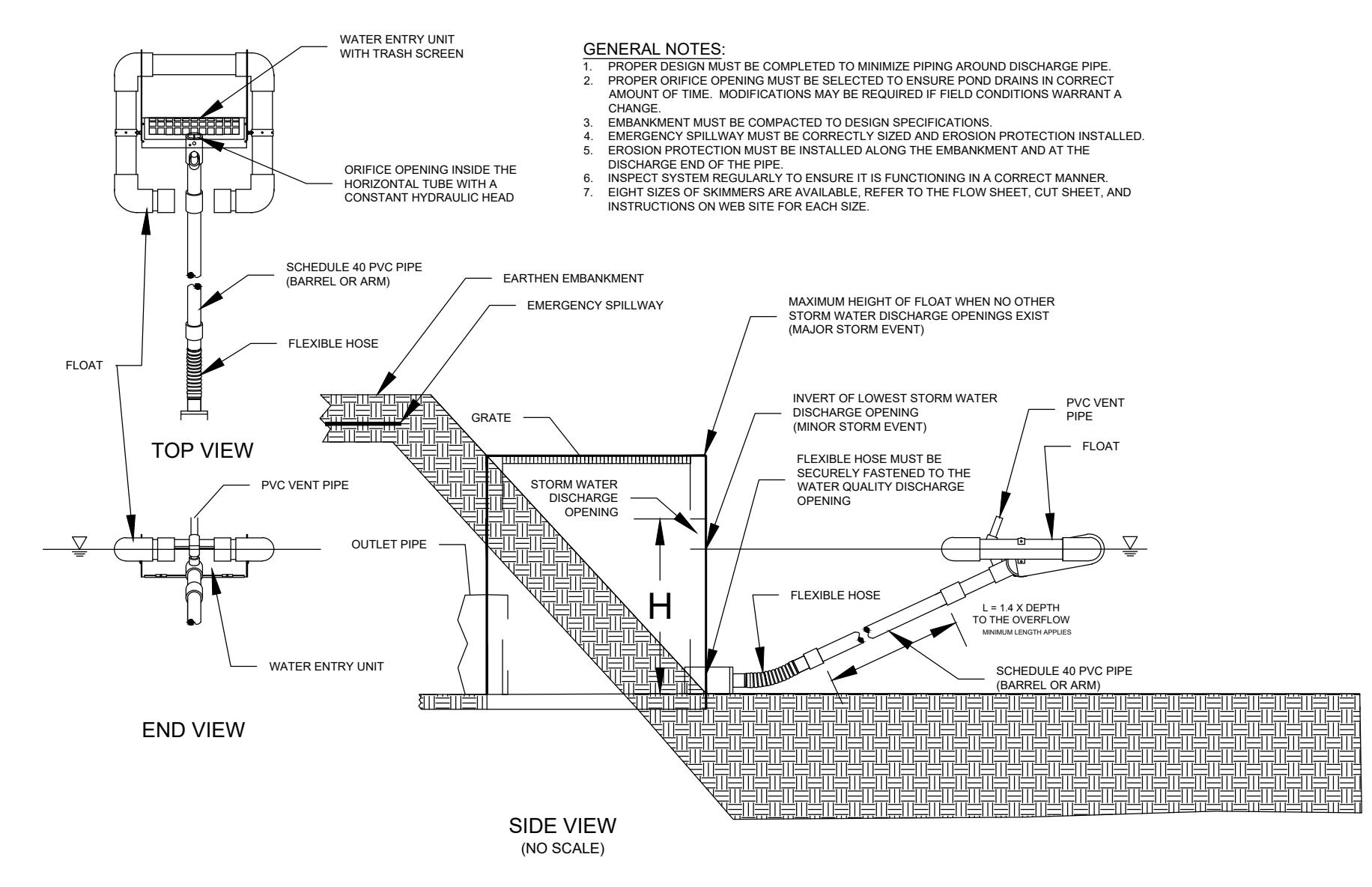
Basin Number	Riser Size (in)	Top of Riser Elevation	Outlet Pipe Size (in)	Outlet Out Elevation (ft)	Outlet Pipe Length (ft)	Outlet Pipe Slope (%)	Skimmer Outlet (in)	Skimmer Elevation (ft)	Skimmer Orifice Radius (in)	Skimmer Drain Time (days)	Emergency Spillway Elevation	Top of Dam Elevation	Pipe Material
3	72 x 72	489.00	24	486.00	42.5	0.50	4.0	486.00	1.5	3	489.75	490.75	RCP
7A	60 x 60	493.50	24	489.00	57	0.50	4.0	489.00	1.8	3	494.75	495.50	RCP

Please note:
 1) Basin 3 outlet bottom drain orifice is 3-inch and will require a transition between the 4-inch skimmer pipes.
 2) Basin 7A outlet bottom drain orifice is 2-inch and will require a transition between the 4-inch skimmer pipes.



BOTTOM DRAIN SCREEN

3/4\"/>



SKIMMER DETAIL FOR OUTLET STRUCTURES

NOT TO SCALE

REVISION DATE

APPROVALS	ENGINEER	DESIGNER	TECHNICIAN	CHECKED BY	APPROVED
BSW	BSW	BSW	JAH	BSW	BSW

DATE: 10/19/23

Signature: [Handwritten Signature]

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PROJECT: CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHUS RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY, SOUTH CAROLINA

SCALE: AS SHOWN

DATE: SEPTEMBER 2023

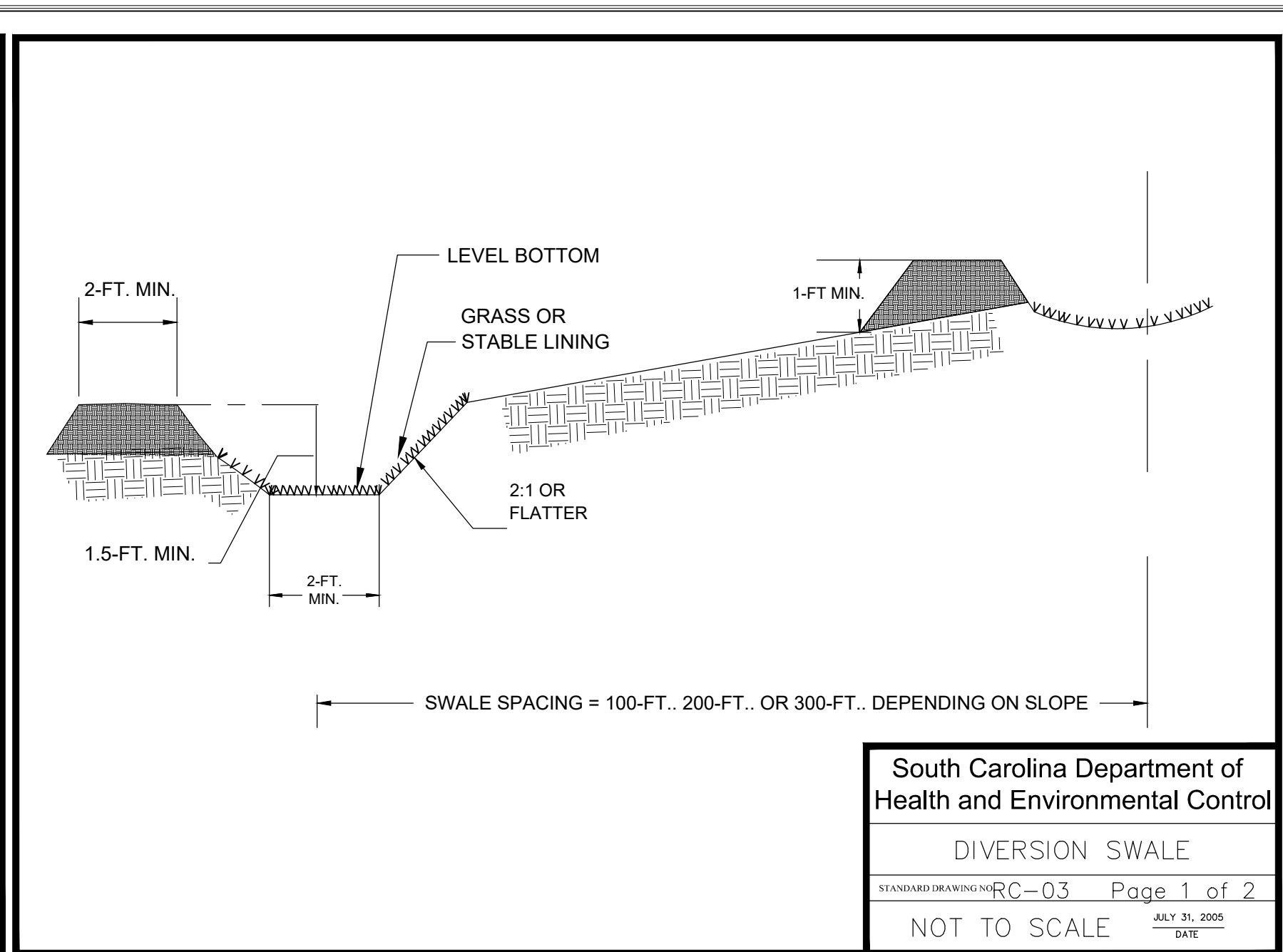
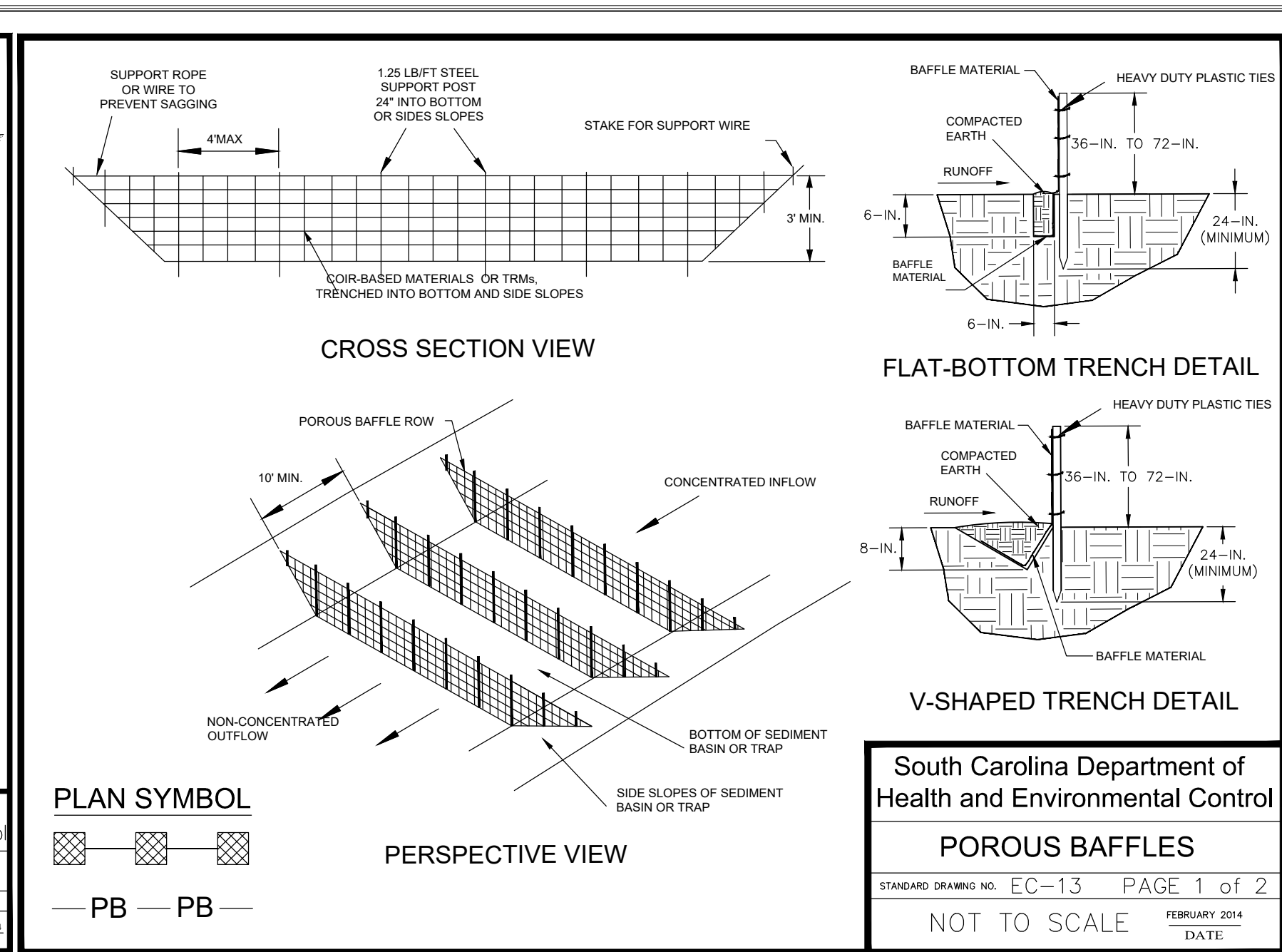
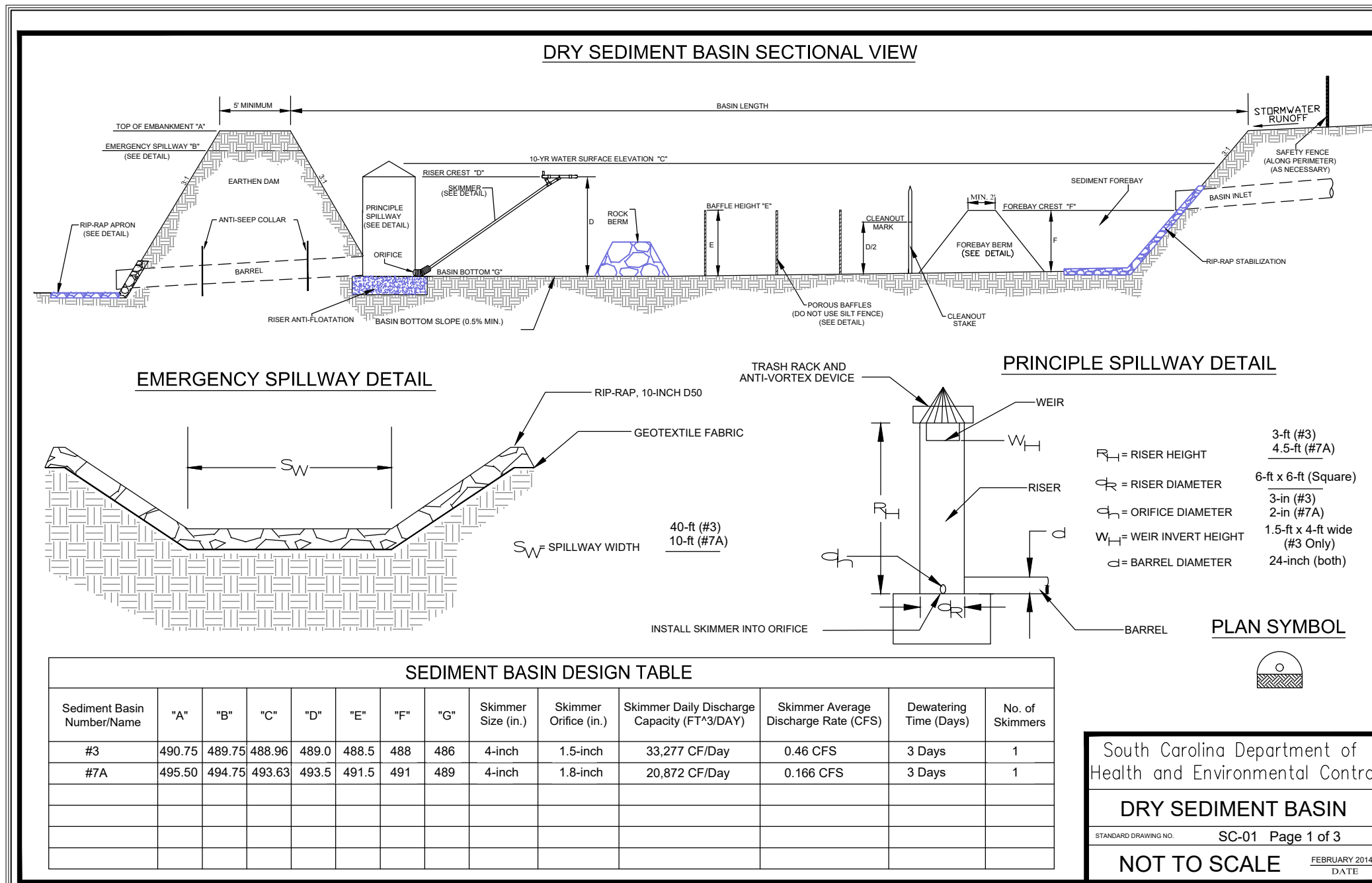
SHEET: EROSION AND SEDIMENT CONTROL DETAILS (SHEET 1 OF 4)

FILE NAME: C8.0.DWG
 REFERENCE FILE: 22202-0013 BASE.dwg
 PROJECT NO.: 22202-0013

SHEET C8.0

DWG NO. 01.1648-D28

October 08, 2023 - 11:50:39 AM S:\Projects\22202-0013 (Ph. Entrance Rwy, Lynchies Riv) Ph. IB (Secondary Rwy, Lynchies Riv) Ph. South Chesterfield Colldge\Construction Plans\Construction Plans\C&E\ESC Detail Sheets.dwg
 PROJECT: CONSTRUCTION PLAN SET
 ± 1.530-LF PHASE IIB INDUSTRIAL PARK LANE AND ± 1.425-LF OF NORTH PARK LANE AT THE ± 139-ACRE LYNCHIES RIVER INDUSTRIAL PARK OFF DOVE SUTTON ROAD NEAR THE TOWN OF PAGELAND CHESTERFIELD COUNTY, SOUTH CAROLINA
 DATE: SEPTEMBER 2023
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 SHEET: EROSION AND SEDIMENT CONTROL DETAILS (SHEET 2 OF 4)
 FILE NAME: C&E.DWG
 REFERENCE FILE: 22202-0013 BASE.dwg
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DRY SEDIMENT BASIN - GENERAL NOTES

- Sediment basins should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
- Sediment basin's side slopes shall be seeded and, when necessary, stabilized with vegetative or synthetic matting to prevent the formation of rills and gullies.
- Install three (3) rows of porous baffles with a minimum spacing of 10 feet. Baffles should ultimately be placed to maximize the space between each row of baffles and the basin's inlets/outlets. Only two (2) rows of baffles are necessary for basins that are less than 50 feet in length.
- Porous Baffles should be composed of coir-based materials or TRMs with a light penetration (open spaces) between 10-35%. These materials should not have loose straw. Silt Fence may not be used as Porous Baffles.
- Each porous baffles shall be installed across the entire width of the basin and along the basin's side slope until the height of the baffle intersects the slope.
- Install skimmer and coupling (as necessary) to riser structure at orifice along bottom of the principle spillway's riser structure. (Refer to skimmer manufacturer for installation procedures and skimmer specifications.)
- Skimmer should be equipped with a mechanism, such as a rope, to allow easy access to skimmer to unclogged orifice or perform other necessary maintenance.
- Stormwater runoff entering the basin must be directed into proper BMPs to prevent erosion along side slopes and to prevent scour at the basin's inlets.
- The forebay berm should consist of riprap, gabion, or an earthen berm with a rock filled outlet that is constructed across the bottom of the basin's width.
- An additional cleanout stake for the forebay area is recommended and should be marked for cleanout at 50% of provided sediment storage.
- The elevation of the emergency spillway should be at least 1 foot below the top of the embankment. The emergency spillway should not be located on fill material, when possible. Riprap and geotextile liner should be placed on all spillways that must be located on fill material.

DRY SEDIMENT BASIN - INSPECTION AND MAINTENANCE

- The key to a functional sediment basin is weekly inspections, routine maintenance, and regular sediment removal.
- Attention to sediment accumulations within the basin is extremely important. Accumulated sediment deposition should be continually checked and removed when necessary.
- Remove accumulated sediment when it reaches 50% of the design sediment storage volume or 1/2 the height of the riser structure, whichever is reached first.
- Removed sediment from the basin shall be placed in stockpile storage areas or spread thinly across the disturbed area. Stabilize the removed sediment after it is relocated.
- Inspections of sediment basins should be conducted once every calendar week and, as recommended, within 24-hours of each rainfall event that produces 1/2-inch or more of precipitation.
- All temporary sediment basins, which are not to be converted to a detention basin post-construction, should be removed within 30 days after final site stabilization is achieved.
- Disturbed areas resulting from the removal of the sediment basin should be permanently stabilized and additional BMPs, such as silt fence, should be utilized to accept stormwater runoff from this disturbed area until final stabilization is reached.

South Carolina Department of Health and Environmental Control
DRY SEDIMENT BASIN
 STANDARD DRAWING NO. SC-01 Page 3 of 3
 FEBRUARY 2014 DATE

BAFFLES - POST REQUIREMENTS

- Porous baffle posts must be 60-inch to 96-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.
 - Includes 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 (± 6%)
- Posts shall be equipped with projections to aid in fastening of baffle material.
- 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 4-feet on center.

BAFFLES - MATERIAL REQUIREMENTS

- Baffle material must be composed of coir-based materials or Turf Reinforcement Matting (TRM) that consists of the following requirements:
 - Have a light penetration (%) openings between 10-35%;
 - Free of loose straw material;
 - Have a minimum tensile strength of 145 lb/ft. and;
 - Have a minimum width of 48-inches.
- 12-inches of the fabric should be placed within excavated trench and tied in when the trench is backfilled or baffle material may be stapled into ground by using 12-inch staples with a maximum spacing of 12-inches.
- Baffle material shall be purchased in continuous rolls and cut to the width of the sediment basin or trap to avoid joints.

BAFFLES - GENERAL NOTES

- Attach baffles to the steel posts using heavy-duty plastic ties that are evenly spaced along the above ground portion of each post.
- Install the baffle rows perpendicular to the direction of the stormwater flow and place each baffle the proper distance from inlet and outlets to allow access for maintenance and clean-out.

BAFFLES - INSPECTION & MAINTENANCE

- The key to functional porous baffles is weekly inspection, routine maintenance, and regular sediment removal.
- Regular inspections of porous baffles 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 each row of baffles 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 baffle row or when it reaches the clean-out height of the sediment basin or trap, whichever is reached first.
- 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 each row of baffles, or where the baffle has sagged or collapsed due to runoff overtopping the baffle.
- Check for tears/rips within the baffles, areas where the baffle has begun to decompose, and for any other circumstance that may render the baffle ineffective. Removed damaged baffles and install new baffles immediately.
- Porous baffles should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control
POROUS BAFFLES
 STANDARD DRAWING NO. SC-13 PAGE 2 of 2
 FEBRUARY 2014 DATE

DIVERSION SWALE

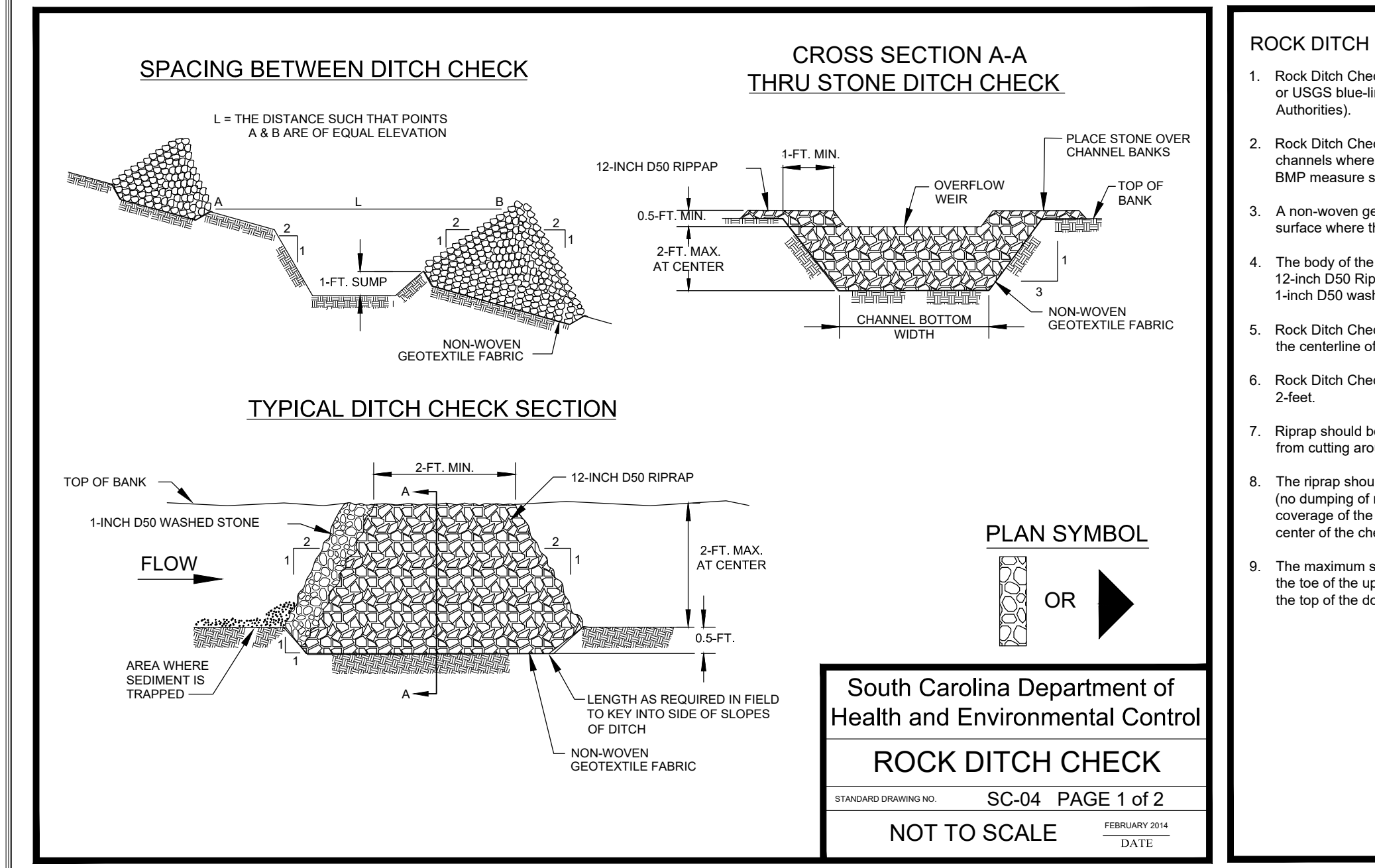
Installation

The bottom width should be a minimum of 2-feet, and the bottom should be level. The depth should be a minimum of 1.5-feet and the side slopes should be 2H:1V or flatter. The maximum grade shall be 5%, with positive drainage to a suitable outlet. Slopes shall be stabilized immediately using vegetation, sod, and erosion control blankets or turf reinforcement mats to prevent erosion. The upslope side of the swale should provide positive drainage so no erosion occurs at the outlet. Provide energy dissipation measures as necessary. Sediment-laden runoff shall be directed to a sediment trapping facility.

Inspection and Maintenance:

Swales should be inspected, every seven (7) calendar days and within 24-hours after each rainfall event that produces 1/2-inches or more of precipitation and repairs made as necessary. Damage caused by construction traffic or other activity must be repaired before the end of each working day.

South Carolina Department of Health and Environmental Control
DIVERSION SWALE
 STANDARD DRAWING NO. RC-03 PAGE 2 of 2
 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 Riprap. 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
 FEBRUARY 2014 DATE

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South Carolina Department of Health and Environmental Control
DIVERSION SWALE
 STANDARD DRAWING NO. RC-03 Page 1 of 2
 FEBRUARY 2014 DATE

South Carolina Department of Health and Environmental Control
POROUS BAFFLES
 STANDARD DRAWING NO. EC-13 PAGE 1 of 2
 FEBRUARY 2014 DATE

South Carolina Department of Health and Environmental Control
DRY SEDIMENT BASIN
 STANDARD DRAWING NO. SC-01 Page 1 of 3
 FEBRUARY 2014 DATE

DATE: 10/9/23
 SIGNATURE: [Signature]

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