DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

SHEET NO.	TOTAL SHEETS
ECI	43

SEE SHEET ECIA FOR
INDEX OF SHEETS

SCDOT

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION

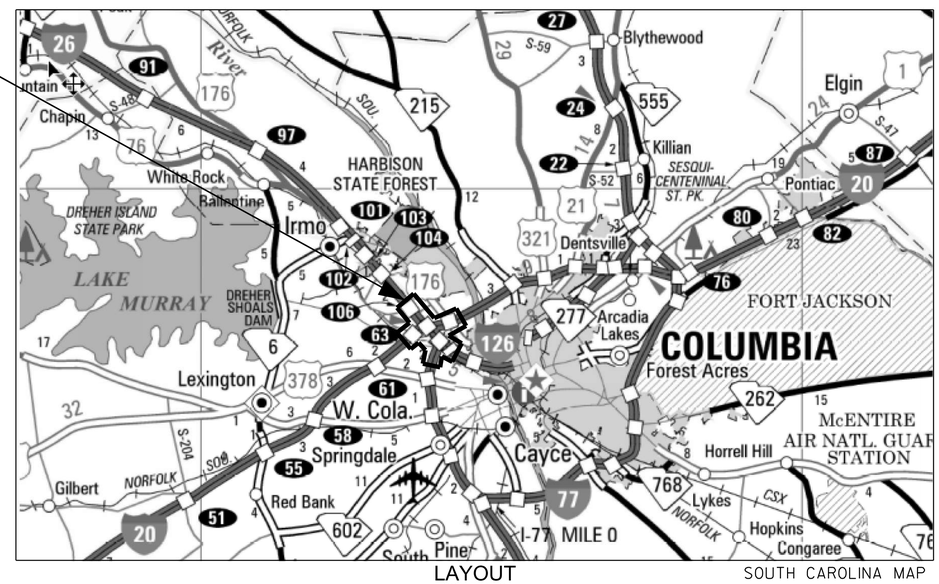
COLUMBIA

CAROLINA CROSSROADS: I-20/26/126 CORRIDOR IMPROVEMENT PROJECT

PHASE 3 CONSTRUCTION PLANS CLEARING AND GRUBBING PHASE

RICHLAND LEXINGTON COUNTIES PROJECT ID P039720

PROJECT ID P039720



LAYOUT
SCALE : NTS

SOUTH CAROLINA MAP

SOUTH CAROLINA
DEPT OF HEALTH AND ENVIRONMENTAL CONTROL
ENVIRONMENTAL QUALITY CONTROL
STORMWATER PERMITTING SECTION
APPROVED - FOR CONSTRUCTION ONLY
DHEC PERMIT #: SCR16 2083
FILE #:
DATE ISSUED: 8/24/23
BY:

NPDES PERMIT INFORMATION

No major Utility Work may occur under this permit as the plans for the utilities are not included herein. This would include any water lines, wastewater lines, gas lines and other large utility work for the site that requires open cut construction. This type of Utility Work will need engineered plans and shall be permitted under a new permit or a modification of this permit.

Disturbed Area = 273.0 Acre(s)

Project Area = 276.0 Acre(s)

Approximate Location of Roadway is

Begin
Latitude 34° 6' 28.8" N
Longitude 81° 10' 58.8" W

End
Latitude 34° 0' 57.6" N
Longitude 81° 5' 9.6" W

Hydraulic and NPDES Design provided by:

HDR ENGINEERING, INC. OF THE CAROLINAS

Designs may be obtained from the SCDOT Regional Production Group

3 DAYS BEFORE DIGGING IN SOUTH CAROLINA

CALL 811

SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

RAILROAD INVOLVEMENT?
YES / NO

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING ENGINEERING FIRM

HDR

HDR ENGINEERING INC.
OF THE CAROLINAS
1201 MAIN STREET
SUITE 800
COLUMBIA, SC, 29201
803-254-5800

ENGINEER OF RECORD

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.

FOR CONSTRUCTION : Edward J. Owens Jr. 8/10/2023
DATE

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

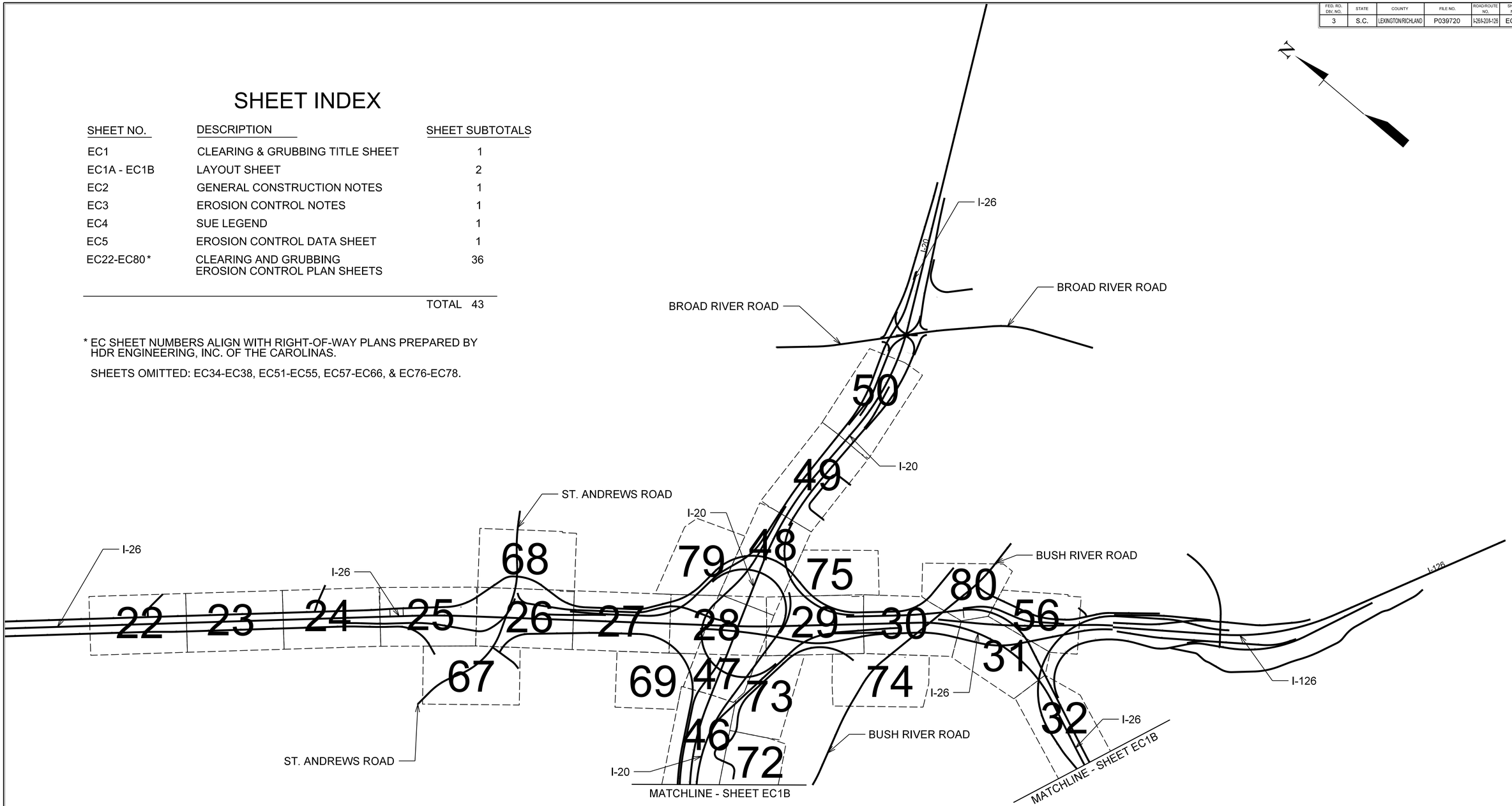
FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC1A

SHEET INDEX

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
EC1	CLEARING & GRUBBING TITLE SHEET	1
EC1A - EC1B	LAYOUT SHEET	2
EC2	GENERAL CONSTRUCTION NOTES	1
EC3	EROSION CONTROL NOTES	1
EC4	SUE LEGEND	1
EC5	EROSION CONTROL DATA SHEET	1
EC22-EC80 *	CLEARING AND GRUBBING EROSION CONTROL PLAN SHEETS	36
	TOTAL	43

* EC SHEET NUMBERS ALIGN WITH RIGHT-OF-WAY PLANS PREPARED BY HDR ENGINEERING, INC. OF THE CAROLINAS.

SHEETS OMITTED: EC34-EC38, EC51-EC55, EC57-EC66, & EC76-EC78.



TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 375 750 1500

CAROLINA CROSSROADS

PHASE 3
EC CLEARING AND GRUBBING PLANS
LAYOUT SHEET

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

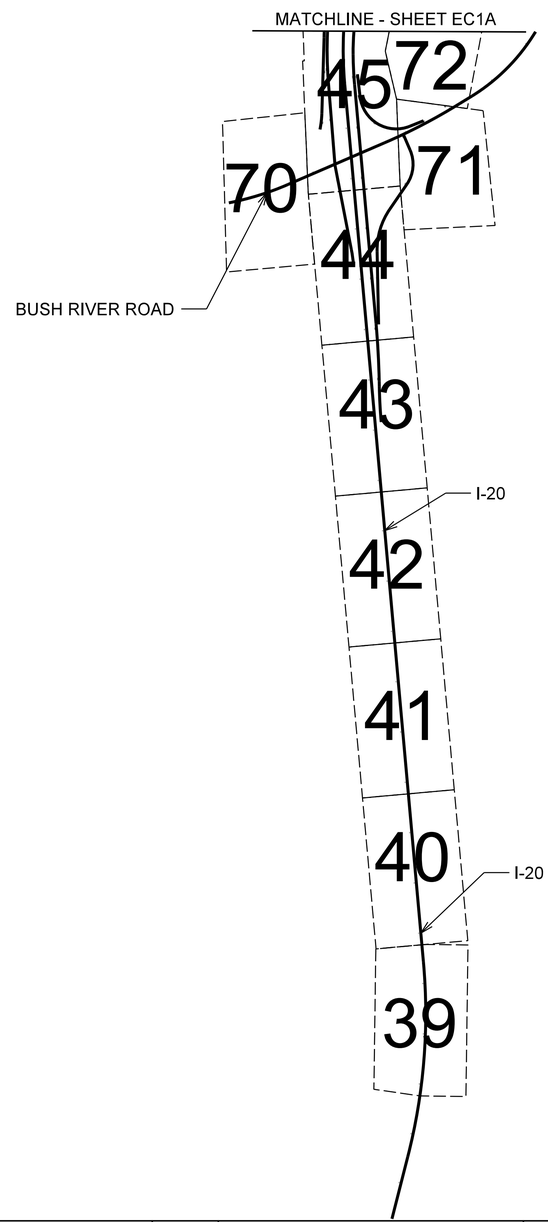
FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC1B

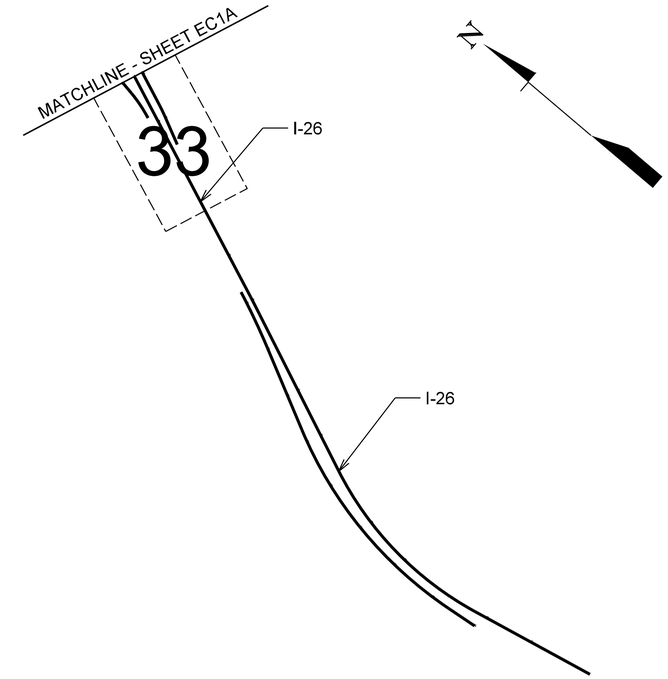
SHEET INDEX

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
EC1	CLEARING & GRUBBING TITLE SHEET	1
EC1A - EC1B	LAYOUT SHEET	2
EC2	GENERAL CONSTRUCTION NOTES	1
EC3	EROSION CONTROL NOTES	1
EC4	SUE LEGEND	1
EC5	EROSION CONTROL DATA SHEET	1
EC22-EC80 *	CLEARING AND GRUBBING EROSION CONTROL PLAN SHEETS	36
	TOTAL	43

* EC SHEET NUMBERS ALIGN WITH RIGHT-OF-WAY PLANS PREPARED BY HDR ENGINEERING, INC. OF THE CAROLINAS.

SHEETS OMITTED: EC34-EC38, EC51-EC55, EC57-EC66, & EC76-EC78.





TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 375 750 1500

CAROLINA CROSSROADS

PHASE 3
EC CLEARING AND GRUBBING PLANS
SHEET LAYOUT

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC2

GENERAL CONSTRUCTION NOTES

NO MAJOR UTILITY WORK MAY OCCUR UNDER THIS PERMIT AS THE PLANS FOR THE MAJOR UTILITIES ARE NOT INCLUDED HEREIN. THIS WOULD INCLUDE ANY WATER LINES, WASTEWATER LINES, GAS LINES, AND OTHER LARGE UTILITY WORK FOR THE SITE THAT REQUIRES OPEN CUT CONSTRUCTION. THIS TYPE OF UTILITY WORK WILL NEED ENGINEERED PLANS AND SHALL BE PERMITTED UNDER A NEW PERMIT OR A MODIFICATION OF THIS PERMIT.

THE DEPUTY SECRETARY FOR ENGINEERING MUST SPECIFICALLY AUTHORIZE CHANGES INVOLVING INCREASED COST OF THE PROJECT OR CHANGES IN ALIGNMENT. THE DISTRICT ENGINEERING ADMINISTRATOR IS PERMITTED UNDER THE DIRECTION OF THE DEPUTY SECRETARY FOR ENGINEERING TO AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE DEPARTMENT. FORWARD INFORMATION ON ANY PROPOSED CHANGES IN ALIGNMENT TO THE COLUMBIA OFFICE AS SOON AS POSSIBLE.

PRIOR TO INITIATING CLEARING AND GRUBBING THE CONTRACTOR SHALL VERIFY THE LIMITS OF THE CLEARING AND GRUBBING WITH THE CONSTRUCTION ENGINEER AND STAKE WORK AREAS AS NEEDED.

AERIAL AND UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL HAVE UTILITIES MARKED PRIOR TO BEGINNING CONSTRUCTION ACTIVITES AND IS RESPONSIBLE FOR MAINTAINING UTILITY MARKINGS DURING CONSTRUCTION.

THE CONTRACTOR SHALL REVIEW THE PROJECT SPECIFICATIONS AND BID DOCUMENTS FOR MOT REQUIREMENTS. TRAFFIC CONTROL SHALL BE COORDINATED WITH PHASE 1 AND PHASE 2 CONSTRUCTION BASED ON THE PROJECT SPECIFICATIONS.

CLEARING AND GRUBBING SHALL BE PERFORMED IN ACCORDANCE WITH SCDOT SPECIFICATIONS. THE EROSION AND SEDIMENT CONTROL DESIGN SHOWN IN THESE PLANS IS ONLY APPLICABLE TO THE CLEARING AND GRUBBING PHASE.

BURNING OF CLEARING AND GRUBBING DEBRIS IS NOT PERMITTED.

THE CONTRACTOR SHALL LOCATE CONSTRUCTION ENTRANCES IN ACCORDANCE WITH THE TRAFFIC CONTROL. ALL CONSTRUCTION ENTRANCES SHALL BE APPROVED BY THE CONSTRUCTION ENGINEER. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES AT ALL CONNECTIONS TO EXISTING PAVEMENT.

THE CONTRACTOR WILL BE REQUIRED TO CLEAR ALL AREAS NECESSARY FOR THE CONSTRUCTION OF ANY SEDIMENT CONTROL STRUCTURES AND INSTALL THE SEDIMENT CONTROL STRUCTURES AND ALL OTHER PERIMETER EROSION CONTROL MEASURES PRIOR TO CLEARING AND GRUBBING ACTIVITIES.

SEEDING SHALL BE ACCOMPLISHED ACCORDING TO SCDOT SUPPLEMENTAL TECHNICAL SPECIFICATIONS "SEEDING-SC-M-810 (LATEST EDITION.)"

ALL EROSION CONTROL MEASURES ON THIS PROJECT SHALL BE IMPLEMENTED AS DETAILED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SILT FENCE AND OTHER EROSION CONTROL FEATURES SHALL BE IN PLACE PRIOR TO GROUND DISTURBING ACTIVITY BEGINS. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED DURING ALL STAGES OF CONSTRUCTION.

SILT FENCE SHALL BE PLACED AT LOCATIONS WHERE SEDIMENT LEAVES THE CLEARING AND GRUBBING LIMITS ESPECIALLY AT THE TOE OF EXISTING FILL SLOPES THAT SLOPE AWAY FROM THE PROJECT. SILT FENCE SHALL NOT BE PLACED IN A POSITION THAT BLOCKS ACCESS TO WORK AREAS OR ROADWAY MAINTENANCE AREAS UNLESS APPROVED BY THE ENGINEER.

ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED ACCORDING TO THE REQUIREMENTS OF THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM SCDOT CONSTRUCTION ACTIVITIES. STABILIZATION MEASURES SHALL BE IMPLEMENTED AS SOON AS PRACTICABLE WITHIN THE ALLOWABLE TIME FRAME STATED WITHIN THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM SCDOT CONSTRUCTION ACTIVITIES IN PORTIONS OF THE SITE WHERE ACTIVITIES HAVE BEEN TEMPORARILY OR PERMANENTLY CEASED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION HAS BEEN OBTAINED OR AS DIRECTED BY THE ENGINEER.

COORDINATION WITH PHASE 1 AND PHASE 2 CONSTRUCTION

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE EROSION CONTROL BEST MANAGEMENT PRACTICES WITH THE PHASE 1 AND PHASE 2 CONSTRUCTION. MINOR OVERLAPS IN DISTURBED AREAS ARE ANTICIPATED. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH THE PHASE 1 AND PHASE 2 CONTRACTORS TO ENSURE EROSION CONTROL BEST MANAGEMENT PRACTICES REMAIN IN PLACE DURING CONSTRUCTION. AS PART OF THE ON-SITE SWPPP, THE SCDOT WILL BE RESPONSIBLE FOR MANAGING THE DISTURBED AREA AND ASSOCIATED PERMIT NUMBER AND RESPONSIBLE CONTRACTOR. THE ON-SITE SWPPP SHALL MAINTAIN ACCURATE RECORDS OF DISTURBANCE AND THE RESPONSIBLE CONTRACTOR.

UTILITY OWNER INFORMATION

COMMUNICATIONS AT&T-D 1600 WILLIAMS STREET COLUMBIA, SC 29201 MR. JASON JORDAN 803-318-0122 JJ141A@ATT.COM T1 OH7	SEWER PALMETTO UTILITIES INC 1710 WOODCREEK FARMS ROAD ELGIN, SC 29045 MR. ADAM DELK 803-995-5071 ADELK@SWWC.COM FS3 S3	COMMUNICATIONS LUMEN (CENTURYLINK/LEVEL 3) 520 WHALEY STREET COLUMBIA, SC 29201 MR. RUSS WHEAT 803-206-9563 RUSS.WHEAT@LUMEN.COM T4 OH11	GAS DOMINION CAROLINA GAS TRANS 220 OPERATIONS WAY CAYCE, SC 29033 MS. CONSTANCE BEALL 803-217-4733 CONNIE.BEALL@DOMINIONENERGY.COM G2	COMMUNICATIONS MCI COMMUNICATIONS (VERIZON) 1118 ST. ANDREWS ROAD COLUMBIA, SC 29210 MR. RANDY GILBERT 803-214-3622 RANDY.GILBERT@VERIZONWIRELESS.COM T7 OH10	WATER CITY OF WEST COLUMBIA 200 NORTH 12TH STREET WEST COLUMBIA, SC 29171 MR. ANDY ZAENGLE 803-609-2489 AZAENGLE@WESTCOLUMBIASC.GOV W2	ELECTRIC DOMINION ENERGY - TRANSMISSION 220 OPERATIONS WAY CAYCE, SC 29033 MR. MATT TALLEY 803-217-1983 MATT.TALLEY@DOMINIONENERGY.COM OH13	ELECTRIC SCDOT 955 PARK ST. COLUMBIA, SC 29202-0191 MR. STEVE LITTLEJOHN 803-737-0256 LITTLEJOSL@SCDOT.ORG E3 SIG
COMMUNICATIONS SEGRA (FORMERLY SPIRIT COMMUNICATIONS) 2 HAMPTON AVENUE GREENVILLE, SC 29601 MR. JIM KEESAER 864-363-7853 JIM.KEESAER@SEGRA.COM T2 OH9	SEWER SYNERGY UTILITIES 1710 WOODCREEK FARMS ROAD ELGIN, SC 29045 MR. ADAM DELK 803-995-5071 ADELK@SWWC.COM FS4 S4	COMMUNICATIONS STATE OF SOUTH CAROLINA 1301 GERVAIS ST. SUITE 710 COLUMBIA, SC 29201 MR. CHARLIE BROWN 803-518-5219 CHARLIE.BROWN@ADMIN.SC.GOV T5	GAS DIXIE PIPELINE 950 NORTH POINT PARKWAY, STE 100 ALPHARETTA, GA 30005 MR. MARK BURKHAUTEN (803) 351-0583 MBURKHAUTEN@DIXIEPIPELINE.COM G3	ELECTRIC SANTEE COOPER 9302 OLD NUMBER SIX HWY 803-854-2131 OH2	ELECTRIC DOMINION ENERGY - DISTRIBUTION 190 OPERATIONS WAY CAYCE, SC 29033 MR. JASON EVANS 803-217-9195 JASON.R.EVANS@DOMINIONENERGY.COM E1 OH1	SEWER CITY OF COLUMBIA 1136 WASHINGTON STREET COLUMBIA, SC 29201 MR. JOHN HILBERT (803) 545-3283 JOHN.HILBERT@COLUMBIASC.GOV FS1 S1	TRAFFIC SCDOT 955 PARK ST. ROOM 117 PO BOX 191 COLUMBIA, SC 29202-0191 MR. GARY S. LINN 803-737-4672 TF1
COMMUNICATIONS LEXINGTON MEDICAL CENTER 2720 SUNSET BLVD. WEST COLUMBIA, SC 29169 DALE THOMPSON 803-791-2000 DTHOMPSON@LEXHEALTH.ORG T3	GAS DOMINION ENERGY 609 OLD TAYLRO ROAD CAYCE, SC 29033 MR. PATRICK GIBBONS 803-354-2459 PATRICK.GIBBONS@DOMINIONENERGY.COM G1	COMMUNICATIONS COMPORIUM /POND BRANCH TELEPHONE 4714 LAKESHORE PARKWAY ROCK HILL, SC 29730 JIMMY LIVINGSTON 803-894-1111 T6	WATER CITY OF COLUMBIA 1136 WASHINGTON STREET COLUMBIA, SC 29201 MR. JOHN HILBERT (803) 545-3283 JOHN.HILBERT@COLUMBIASC.GOV W1	COMMUNICATIONS CHARTER SPECTRUM 33474 PLATT SPRINGS ROAD WEST COLUMBIA, SC 29170 MR. STEVE JONES 803-744-5514 STEVE.JONES@CHARTER.COM TV1 OH8	ELECTRIC MID-CAROLINA ELECTRIC CO. P.O. BOX 669 LEXINGTON, SC 29071 MR. BRIAN SANDIFER 803-749-6481 BRIAN@MCECOOP.COM E2 OH3	SEWER CITY OF WEST COLUMBIA 200 NORTH 12TH STREET WEST COLUMBIA, SC 29171 MR. ANDY ZAENGLE 803-609-2489 AZAENGLE@WESTCOLUMBIASC.GOV FS2 S2	

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING, INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

CAROLINA CROSSROADS

GENERAL CONSTRUCTION NOTES

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC3

GENERAL CONSTRUCTION NOTES (EROSION CONTROL)

SCDHEC STANDARD NOTES

1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.

2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.

   -WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.

   -WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS. TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

3. 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 CONSTRUCTED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.

4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.

5. 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.

6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT AS MAY BE REQUIRED.

7. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.

8. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.

9. 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.

10. A COPY OF THE 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 THAT FINAL STABILIZATION IS REACHED.

11. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.

12. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

13. 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 THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.)

15. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
   -WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
   -WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS;
   -FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
   -SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.

16. 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.

17. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.

18. 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 10 ACRES OR MORE, THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

SEDIMENT & EROSION CONTROL CONSTRUCTION SEQUENCE

1. RECEIVE NPDES COVERAGE FROM SCDHEC.

2. NOTIFY SCDHEC/SCDOT OFFICE 48 HOURS PRIOR TO BEGINNING LAND-DISTURBING ACTIVITIES.

3. INSTALLATION OF CONSTRUCTION ENTRANCE(S).

4. CLEARING AND GRUBBING ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.

5. INSTALLATION OF PERIMETER CONTROLS (E.G. SILT FENCE).

6. CLEARING AND GRUBBING OF PROJECT AREAS. SEDIMENT AND EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED IN THE PROJECT AREAS AS CLEARING AND GRUBBING IS PERFORMED.

7. REMOVE CLEARING AND GRUBBING DEBRIS.

8. PERMANENT/FINAL STABILIZATION.

9. REMOVAL OF TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AFTER ENTIRE AREA DRAINING TO THE STRUCTURE IS FINALLY STABILIZED. (IT IS RECOMMENDED THAT THE PROJECT OWNER/OPERATOR HAVE THE SWPPP PREPARER OR REGISTRATION EQUIVALENT APPROVE THE REMOVAL OF TEMPORARY STRUCTURES).

10. SUBMIT NOTICE OF TERMINATION (NOT) TO SCDHEC/SCDOT AS APPROPRIATE.

PLAN NOTES

1. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF UTILITIES ON THE PROJECT SITE. THE CONTRACTOR SHALL CALL THE PALMETTO UTILITY PROTECTION SERVICE (PUPS) AT 811 SEVENTY-TWO HOURS PRIOR TO BEGINNING CONSTRUCTION.

2. EXISTING CONDITIONS ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED PRIOR TO BEGINNING CONSTRUCTION.

3. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ROADWAYS AND UTILITIES LOCATED WITHIN THE SCDOT RIGHT-OF-WAY AND BE RESPONSIBLE FOR ANY AND ALL DAMAGE / REPAIRS DURING CONSTRUCTION.

4. EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE INSTALLED PRIOR TO INITIATING FULL CLEARING AND GRUBBING ACTIVITIES AND SHALL BE MAINTAINED UNTIL THE WORK AREA HAS BEEN STABILIZED.

5. ALL AREAS DISTURBED BY CLEARING AND GRUBBING ACTIVITIES SHALL BE SEEDED IN ACCORDANCE WITH THE SCDOT SEEDING SPECIFICATIONS (LATEST EDITION).

6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE PLACED AT ALL INGRESS AND EGRESS LOCATIONS FROM EXISTING PAVEMENT.

7. DEMOLITION OF EXISTING BUILDINGS AND REMOVAL OF EXISTING PAVEMENT (PARKING AREAS / SIDEWALKS, ETC.) MAY OCCUR IN THE CLEARING AND GRUBBING PHASE. NO NEW IMPERVIOUS AREA MAY BE PLACED DURING THE CLEARING AND GRUBBING PHASE. AREAS OF DEMOLITION MAY BE STABILIZED WITH TEMPORARY / PERMANENT SEEDING IN ACCORDANCE WITH SCDOT REQUIREMENTS. THE EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED FOR ALL AREAS OF DEMOLITION.

7. THESE NOTES APPLY TO ALL PLAN SHEETS AND WORK AREAS.

LINE DESCRIPTIONS

—CG—	LIMITS OF CLEARING AND GRUBBING. AT THESE LOCATIONS, SILT FENCE IS NOT REQUIRED. LIMITS OF CLEARING AND GRUBBING MAY EXTEND ACROSS PAVED ROADWAYS HOWEVER CLEARING AND GRUBBING SHOULD NOT BE PERFORMED WITHIN ROADWAY AREAS.
—SF/CG—	LIMITS OF CLEARING AND GRUBBING WITH SILT FENCE. AT THESE LOCATIONS, SILT FENCE IS REQUIRED. LIMITS OF CLEARING AND GRUBBING WITH SILT FENCE MAY EXTEND ACROSS PAVED ROADWAYS HOWEVER CLEARING AND GRUBBING SHOULD NOT BE PERFORMED WITHIN ROADWAY AREAS AND SILT FENCE SHALL NOT BE PLACED ACROSS ROADWAYS OR DRIVEWAYS.
—SF—	LIMITS OF SILT FENCE WITHIN CLEARING AND GRUBBING LIMITS. AT THESE LOCATIONS, PLACE SILT AT THE LOCATION SHOWN IN ACCORDANCE WITH THE EROSION CONTROL PLANS. SILT FENCE SHALL NOT BE PLACED ACROSS ROADWAYS OR DRIVEWAYS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

CAROLINA CROSSROADS

EROSION CONTROL NOTES

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	RICHLAND / LEXINGTON	P039720	I-20 I-26 I-126	EC4

SUE LEGEND AND NOTES

ELECTRIC SYMBOLS

SYM	ABV	DESCRIPTION
	ETM	ELECTRICAL TRANSFORMER
	EMH	ELECTRICAL MAN HOLE
	EHH	ELECTRICAL HAND HOLE
	EPP	ELECTRIC PEDESTAL
	EBX	ELECTRIC BOX
	ESG	ELECTRIC SWITCH GEAR BOX
	EVT	ELECTRIC VAULT
	EGL	GROUND / LANDSCAPE LIGHT
	EAB	ELECTRIC AIR BRAKE
	ERO	ELECTRIC RESIDENTAL OUTLET

POLE SYMBOLS

SYM	ABV	DESCRIPTION
	PSP	SIGNIFICANT POLE (STEEL, CONCRETE, ETC)
	PP	ELECTRIC, COMBINATION POLE
	PMP	METER POLE
	PLT	TRANSMISSION LINE POLE
	PLP	AREA LIGHT POLE
	PTF	TRAFFIC SIGNAL POLE
	POP	OTHER USE POLE
	PCT	CELL PHONE TOWER
	PTP	TELEPHONE POLE
	PGP	GUY POLE

TRAFFIC CONTROL SYMBOLS

SYM	ABV	DESCRIPTION
	TFV	TRAFFIC SIGNAL CONTROL VAULT
	TFHH	TRAFFIC CONTROL HAND HOLE
	TFJ	TRAFFIC SIGNAL JUNCTION BOX

GAS SYMBOLS

SYM	ABV	DESCRIPTION
	GM	GAS METER
	GVC	GAS VALVE CAP
	GMH	GAS MAN HOLE
GV	GVT	GAS VENT
GR	GR	GAS PRESSURE REGULATOR
GTP	GTP	GAS LINE TEST POINT
GTF	GTF	GAS LINE TAP FARM

MISC SYMBOLS

SYM	ABV	DESCRIPTION
	MWP	UTILITY WITNESS POST
EOI	MOI	END OF INFORMATION
	MUC	MISC / UNKNOWN VALVE CAP OR COVER
	MPB	PAVED OR BURIED MANHOLE / CAP
	MUE	UTILITY TERMINI / ENDS
	MTH	TEST HOLE

COMBINATION LINE DEPICTION CODES

SHOW COMBINED LEVEL C & D SUE WILL INCLUDE THE FOLLOWING LEVEL QUALITY CODES:

LINE SHOWN DEPICTS QUALITY LEVEL C <C>

——<C>——T1——

LINE SHOWN DEPICTS QUALITY LEVEL D <D>

——<D>——T1——

MULTIPLE SUE OWNERS CAN BE DEPICTED OWNERSHIP WITH THE FOLLOWING CODES:

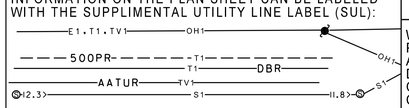
(A) UTILITY OWNER "X"

——<C>——(A)——T1——

(B) UTILITY OWNER "Y"

——<D>——T1——(B)——

UTILITY LINES THAT REQUIRE MORE DETAILED INFORMATION ON THE PLAN SHEET CAN BE LABELED WITH THE SUPPLIMENTAL UTILITY LINE LABEL (SUL):



OWNERSHIP CODES WILL REFERENCED ON THE TITLE/OWNER SHEET AND THE UTILITY & POLE DATA SHEET.

TELECOMMUNICATION SYMBOLS

SYM	ABV	DESCRIPTION
	TB	TELEPHONE BOOTH
	TVP	CABLE TV PEDESTAL
	TLC	SUBSCRIBER LOOP CARRIER (aka SLICK)
	TPP	TELEPHONE PEDESTAL
	TMH	TELEPHONE MAN HOLE
	TFOH	FIBER OPTIC HAND HOLE
	THH	TELEPHONE HAND HOLE
	TVHH	CABLE TV HAND HOLE
	TBX	TELEPHONE BOX
	TXB	SPLICE BOX
	TRP	TELEPHONE REPEATER
	TVB	CABLE TV BOX
	TUV	UNDERGROUND TELEPHONE VAULT
	UTP	UNDERGROUND TELEPHONE PEDESTAL
	UTV	UNDERGROUND CABLE TV PEDESTAL

WATER SYMBOLS

SYM	ABV	DESCRIPTION
	WM	WATER METER
	WV	WATER VALVE
	WMW	WATER MONITORING WELL
	WFH	FIRE HYDRANT
	WMH	WATER MAN HOLE
	WAR	WATER AIR RELEASE VALVE
	WVB	WATER VALVE BOX
	WFC	FIRE DEPARTMENT CONNECTION
	WBP	WATER BACKFLOW PREVENTER
	WBO	WATER BLOW OFF VALVE
	WWH	WELL HOUSE
	WPV	POST INDICATOR VALVE

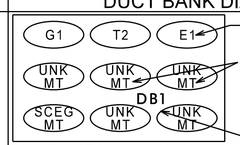
SEWER SYMBOLS

SYM	ABV	DESCRIPTION
	SCO	SEWER CLEAN OUT
	SMH	SEWER MAN HOLE
	SAR	SEWER AIR RELEASE VALVE
	SST	SEWER STEP TANK
	SCV	SEWER CHECK VALVE BOX
	SGP	SEWER GRINDER / PUMP STATION
	SSV	SEWER VALVE
	SLS	SEWER LIFT STATION

NONPOTTABLE WATER SYMBOLS

SYM	ABV	DESCRIPTION
	ICV	IRRIGATION CONTROL VALVE
	ICB	IRRIGATION CONTROL BOX
	IRH	IRRIGATION / SPRINKLER HEAD

DUCT BANK DIAGRAM



PLACE DUCT BANK DIAGRAM ON THE UTILITY & POLE DATA SHEET BELOW THE UTILITY & POLE DATA CHART. NOTE THE UUI OF THE DUCT BANK ON THE DIAGRAM. DEPICT THE CORRECT NUMBER OF CONDUITS IN THE DUCT AND THE USAGE OF EACH. MARK EMPTIES (IF KNOWN) WITH OWNER REFERENCE ABBREVIATION AND "MT".

UTILITY INFORMATION TAGS (UIT)

WHEN UTILITY APPURTENANCES NEED DESCRIBING, PLACE A UIT NEXT TO THE CELL OR OUTLINED AREA. PLACE THE INFORMATION ON THE UTILITY DATA SHEET. DESIGNATE THE UTILITY BY THE OWNER NUMBER AND "T001" CODE IN THE "UTILITY" COLUMN. (IE - T2 T001).

ⓧ T001

UTILITY INFORMATION ABBERVIATIONS

EOI	END OF INFORMATION
EORI	END OF RECORDED INFORMATION
AATUR	UTILITY ABANDONED ACCORDING TO UTLILITY RECORDS
AATFI	UTILITY ABANDONED ACCORDING TO FIELD INSPECTION
EATUR	EMPTY ACCORDING TO UTILITY RECORDS
NAP	NO ASSOCIATED PIPING FOUND FROM STRUCTURE
NAC	NO ASSOCIATED CABLES FOUND FROM STRUCTURE
DBR	DIRECT BURIED
DATFI	DEPICTED ACCORDING TO FIELD INSPECTION
EATFI	EMPTY ACCORDING TO FIELD INSPECTION
PR	PAIR
MT	EMPTY
CAP	CAPACITY
GR	GROUND

MATERIAL ABBREVIATIONS

C	COPPER
DI	DUCTILE IRON
S	STEEL
P	PLASTIC
FO	FIBER OPTIC
CI	CAST IRON
S	STEEL
CO	CONCRETE
PV	PVC
VY	VYLON
TC	TERRA COTTA
SWC	STEEL WRAPPED COATED
AC	ASBESTOS CEMENT
TF	TRAFFIC SIGNAL CABLE
GW	GUY WIRE
CNT	CONDUIT

GENERAL ABBREVIATIONS

E	ELECTRIC (POWER)
W	UNDERGROUND WATER
G	UNDERGROUND GAS
PUPS	PALMETTO UTILIY PROTECTION SERVICES
T	TELEPHONE, TELECOMMUNICATION
TV, C	CABLE TELEVISION
FO	FIBER OPTIC
S	SANITARY SEWER
FS	FORCED SANITARY SEWER, FORCE MAIN
DB	DUCT BANK
TF	TRAFFIC CONTROL UTILITY
UNK	UNKNOWN UTILITY
HP	HYDROGEN PEROXIDE
ST	STEAM LINE
F	FUEL / PETROLEUM LINE
R	RECLAIMED WATER / SLURRY LINE
I	IRRIGATION LINE
DB	DUCT BANK
TNL	TUNNEL
CA	GASES MATERIAL

SEWER MANHOLE NUMBERS (SMN)

S001 Ⓢ ← SANITARY SEWER MANHOLE

DESIGNATE EACH SANITARY SEWER MANHOLE WITH A SEWER MANHOLE NUMBER (SMN). REFERENCE THIS SMN ON THE UTILITY DATA SHEET AND LIST ELEVATIONS.

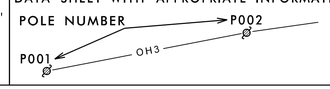
GENERAL NOTES

-GRAVITY SANITARY SEWER LINES ARE SHOWN AS LEVEL 'C'.
-AERIAL UTILITY LINES ARE CONSIDERED AS LEVEL 'C'.
-UTILITY OWNER INFORMATION SHOWN ON UTILITY TITLE SHEET.
-DETAILED INFORMATION SHOWN ON UTILITY & POLE DATA SHEETS.
-UTILITY POLE DATA INFORMATION SHOWN ON UTILITY & POLE DATA SHEETS.
-TEST HOLE SHOWN ON UTILITY PLAN SHEETS AND DETAILED ON TEST HOLE REFERENCE SHEETS.

-HORIZONTAL AND VERTICAL REFERENCED TO PROJECT CONTROL FOUND ON REFERENCE SHEET.
-SERVICES LINES WERE DESIGNATED TO THE SWEEP LIMITS OR DISTRUBUTION POINT.
-ALL SUBSURFACE UTILITY WORK WAS PERFORMED USING THE ASCE GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITIY DATA CI/ASCE 38-02

UTILITY POLE ID NUMBER (UPIN)

TAG EACH UTILITY POLE WITH A UTILITY POLE ID NUMBER (UPIN) STARTING AT THE BEGINNING STATION. REFERENCE UPIN ON THE UTILITY & POLE DATA SHEET WITH APPROPRIATE INFORMATION.



UTILITY UNIQUE IDENTIFIER LINE-STYLES

ELECTRIC RECORDED	E1 THRU E10
ELECTRIC DESIGNATED	E1 THRU E10
TRAFFIC CONTROL RECORDED	TF1 THRU TF5
TRAFFIC CONTROL DESIGNATED	TF1 THRU TF5
TELEPHONE RECORDED	T1 THRU T10
TELEPHONE DESIGNATED	T1 THRU T10
CABLE TV RECORDED	TV1 THRU TV10
CABLE TV DESIGNATED	TV1 THRU TV10
IRRIGATION RECORDED	I1 THRU I5
IRRIGATION DESIGNATED	I1 THRU I5
SLURRY RECORDED	R1 THRU R5
SLURRY DESIGNATED	R1 THRU R5
GAS RECORDED	G1 THRU G10
GAS DESIGNATED	G1 THRU G10
FUEL/PETROL RECORDED	F1 THRU F5
FUEL/PETROL DESIGNATED	F1 THRU F5
STEAM RECORDED	ST1 THRU ST5
STEAM DESIGNATED	ST1 THRU ST5
COMPRESSED GASES RECORDED	CA1 THRU CA5
COMPRESSED GASES DESIGNATED	CA1 THRU CA5
WATER RECORDED	W1 THRU W10
WATER DESIGNATED	W1 THRU W10
GAVITY SEWER	S1 THRU S10
FORCED SEWER RECORDED	FS1 THRU FS10
FORCED SEWER DESIGNATED	FS1 THRU FS10
AERIAL SIGNAL LINE	SIG
AERIAL UTILITY LINE	OH1 THRU OH20
AERIAL GUY WIRE	GW
MISCELANEOUS RECORDED	M1 THRU M5
MISCELANEOUS DESIGNATED	M1 THRU M5
DUCT BANK RECORDED	DB1 THRU DB5
DUCT BANK DESIGNATED	DB1 THRU DB5
UTILITY TUNNEL	TNL
UNKOWN DESIGNATED	UNK
SWEEP LIMIT	SUE

SOIL COMBINATION CHART

SANDY LOAM	SL	SILTY LOAM	ZL	SILT	Z
CLAY LOAM	CL	SILT CLAY LOAM	ZCL	SAND CLAY LOAM	SCL
SANDY CLAY	SC	SILTY CLAY	ZC	CLAY	C

SURFACE DESCRIPTION LEGEND KEY

ASPHALT	A	INTER-LOCKING BRICK	I	CONC-RETE	C
NATURAL GROUND	N				

SOIL DESCRIPTION LEGEND KEY

COMPACTION		WATER LEVEL		SOIL TYPE	
LOOSE	L	DRY	D	CLAY	C
SOFT	D	MOIST	M	LOAM	L
HARD	H	WET	E	SAND	S
SOLID	HH	STANDING WATER	WW	SILT	Z

QUALITY LEVEL DEFINITIONS

Level D. This level information comes solely from existing utility records. It may provide an overall "feel" for the congestion of utilities, but it is often highly limited in terms of comprehensiveness and accuracy. Its usefulness should be confined to project planning and route selection activities.

Level C. This level involves surveying visible aboveground utility facilities (e.g., manholes, valve boxes, posts) and correlating this information with existing utility records. When using this information, it is not unusual to find that many underground utilities have been either omitted or erroneously plotted. Its usefulness, therefore, should be confined to rural projects where utilities are not prevalent, or are not too expensive to repair or relocate.

Level B. This level involves the use of surface geophysical techniques to determine the existence and horizontal position of underground utilities. This activity is called "designating." Two-dimensional mapping information is obtained. This information is usually sufficient to accomplish preliminary engineering goals. Decisions can be made on where to place storm drainage systems, footers, foundations and other design features in order to avoid conflicts with existing utilities. Slight adjustments in the design can produce substantial cost savings by eliminating utility relocations.

Level A. This level involves the use of nondestructive digging equipment at critical points to determine the precise horizontal and vertical position of underground utilities, as well as the type, size, condition, material and other characteristics. This activity is called "locating." It is the highest level presently available. When surveyed and mapped, precise plan and profile information are available for use in making final design decisions. By knowing exactly where a utility is positioned in three dimensions, the designer can often make small adjustments in elevations or horizontal locations and avoid the need to relocate utilities. Additional information (e.g., utility materials, condition, size, soil contamination, paving thickness) also assists the designer and Utility Company in their decisions.

U SHEET - UTILITY COORDINATION LEGEND

SYM	ABV	DESCRIPTION
	UCP	NEW / RELOCATED UTILITY POLE
	URP	REMOVE UTILITY POLE
	UCW	NEW / RELOCATE WATER STRUCTURE
	UCT	NEW / RELOCATE TELECOMMUNICATION PEDESTAL
	UCG	NEW / RELOCATE GAS STRUTURE
	UCE	NEW / RELOCATE ELECTRIC STRUCTURE
	UCS	NEW / RELOCATE SEWER STRUCTURE
	UCF	NEW / RELOCATE TRAFFIC STRUCTURE
	UCU	NEW / RELOCATE MISC STRUCTURE
	.	.
	.	.
	.	.

PROPOSED UTILITY LINES

T1 THRU T10	TELEPHONE
TV1 THRU TV10	CABLE TV
E1 THRU E10	ELECTRIC
TF1 THRU TF5	TRAFFIC CONTROL
W1 THRU W10	WATER
G1 THRU G10	GAS
FS1 THRU FS10	FORCED SEWER
F1 THRU F5	FUEL / PETROLEUM
OH1 THRU OH20	AERIAL UTILITIES
DB1 THRU DB5	DUCT BANK
M1 THRU M5	MISCELLANEOUS

U SHEET PLAN NOTES

U SHEET LINEWORK WILL BE USED WHEN UTILITY RELOCATION PLANS ARE INCLUDED IN THE PLAN SET.

ALL U SHEET UUI LINES WILL BE DETAILED ON THE U SHEET DATA SHEET.

"MISCELANEOUS" UUI U SHEET LINEWORK CAN BE USED FOR ANY UTILITY NOT REPRESENTED WITH A RELOCATION UUI.

ON U SHEETS, EXISTING UTILITIES ARE DEPICTED ON A GREYSCALE.

REMOVED UTILITIES

ABANDONED/REMOVED

	TELEPHONE
	CABLE TV
	ELECTRIC
	TRAFFIC CONTROL
	WATER
	GAS
	FORCED SEWER
	FUEL / PETROLEUM
	AERIAL UTILITIES
	DUCT BANK
	MISCELANEOUS

PROJECT NOTES

1. SUE WAS PERFORMED BY SAM.
2. SEE SHEET 2 FOR UTILITY CONTACTS AND OWNERS.

SCDOT
South Carolina Department of Transportation

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ROAD DESIGN COLUMBIA, SC

UTILITY LEGEND SHEET

SUElegend.DGN

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

SCDOT
South Carolina Department of Transportation

EROSION CONTROL DATA SHEET

FED. RD. DIV. NO.	STATE	COUNTY	PROJECT ID	SHEET NO.
3	S.C.	LEXINGTON / RICHLAND	P039720	EC5

RECEIVING WATERS

ROAD / ROUTE	OUTFALL DITCH STATION	OUTFALL DITCH SIDE	NAME OF RECEIVING WATERS	NAME OF ULTIMATE RECEIVING WATERS
I-26	248+00	RT	UNNAMED TRIBUTARY	STOOP CREEK
I-26	275+75	LT	UNNAMED TRIBUTARY	STOOP CREEK
I-26	307+25	RT	STOOP CREEK	SALUDA RIVER
I-26	367+00	RT	UNNAMED TRIBUTARY	SALUDA RIVER
I-26	395+00	RT	SALUDA RIVER	CONGAREE RIVER
I-26	425+75	LT	SENN BRANCH	SALUDA RIVER
I-20	37+00	LT	UNNAMED TRIBUTARY	SALUDA RIVER
I-20	78+75	LT	UNNAMED TRIBUTARY	SALUDA RIVER
I-20	92+00	RT	SALUDA RIVER	CONGAREE RIVER
I-20	120+00	RT	UNNAMED TRIBUTARY	SALUDA RIVER
I-20	134+00	RT	UNNAMED TRIBUTARY	STOOP CREEK
I-20	144+50	RT	STOOP CREEK	SALUDA RIVER
I-20	180+25	RT	UNNAMED TRIBUTARY	SALUDA RIVER
I-20	205+50	RT	UNNAMED TRIBUTARY	SALUDA RIVER
I-126	4391+50	RT	UNNAMED TRIBUTARY	SALUDA RIVER
I-126	4396+00	RT	UNNAMED TRIBUTARY	SALUDA RIVER
I-126	21+50	RT	UNNAMED TRIBUTARY	SALUDA RIVER

SOIL TYPES

ROAD / ROUTE	STATION TO STATION		SOIL PARTICLE SIZE (COARSE / FINE)	ZONE
I-20	PROJECT EXTENTS		COARSE	UPPER COASTAL
I-26	PROJECT EXTENTS		COARSE	UPPER COASTAL
I-126	PROJECT EXTENTS		COARSE	UPPER COASTAL
S-36	PROJECT EXTENTS		COARSE	UPPER COASTAL
S-31	PROJECT EXTENTS		COARSE	UPPER COASTAL

TEMPORARY EROSION CONTROL BLANKET

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF BLANKET (FT)	DITCH BOTTOM WIDTH (FT)	SLOPES x : 1 FRONT	SLOPES x : 1 BACK	MSY
NOT REQUIRED FOR CLEARING AND GRUBBING PHASE								
							TOTAL	

TURF REINFORCED MATTING (TRM)

ROAD / ROUTE	STATION TO STATION		SIDE	DEPTH OF MAT (FT)	SLOPES (x : 1) FRONT	SLOPES (x : 1) BACK	DITCH BOTTOM WIDTH (FT)	TYPE	TYPE 1 (MSY)	TYPE 2 (MSY)	TYPE 3 (MSY)
NOT REQUIRED FOR CLEARING AND GRUBBING PHASE											
								TOTALS			

SEDIMENT TUBES IN DITCHES

ROAD / ROUTE	DITCH ID.	SIDE	AVERAGE LENGTH	SPACING (FT)	TOTAL	COMMENTS
I-26	22A	Lt.	18	150	100	
I-26	23A	Lt.	12	100	166	
I-26	23B	Rt.	12	75	138	
I-26	23C	Lt.	18	75	190	
I-26	23D	Rt.	12	50	259	
I-26	24A	Rt.	12	100	110	
I-26	25A	Lt.	10	150	37	
I-26	25B	Lt.	18	50	382	
I-26	25C	Rt.	8	50	133	
I-26	26A	Rt.	18	75	121	
I-26	26B	Rt.	12	75	99	
I-26	26C	Rt.	18	75	125	
I-26	27A	Lt.	18	150	78	
I-26	27B	Lt.	12	50	138	
I-26	27C	Lt.	12	50	79	
I-26	28A	Lt.	12	40	225	
I-26	28B	Lt.	18	75	152	
I-26	28C	Lt.	12	75	87	
I-20	28D	Rt.	12	75	70	
I-20	28E	Lt.	12	50	130	
I-20	28F	Lt.	18	25	317	
I-20	28G	Lt.	12	40	132	
I-20	28H	Lt.	12	75	70	
I-26	29A	Rt.	12	75	159	
I-26	33A	Rt.	12	100	113	
I-20	39A	Lt.	12	50	173	
I-20	39B	Rt.	12	75	94	
I-20	39C	Lt.	12	40	192	
I-20	40A	Rt.	12	75	218	
I-20	40B	Lt.	18	75	232	
I-20	41A	Rt.	18	50	247	
I-20	41B	Lt.	12	40	392	
I-20	44A	Lt.	12	150	56	
I-20	45A	Lt.	12	50	205	
I-20	45B	Rt.	12	50	88	
I-20	46A	Rt.	12	50	222	
I-20	46B	Rt.	12	25	187	
I-20	47A	Rt.	18	75	160	
I-20	47B	Lt.	18	40	153	
I-20	47C	Lt.	12	30	296	
I-20	48A	Lt.	18	75	148	
I-20	48B	Rt.	12	75	124	
I-20	48C	Rt.	12	100	221	
I-26	56A	Lt.	8	50	122	
I-26	56B	Lt.	18	150	167	
I-20	71A	Rt.	18	75	186	
I-20	73A	Rt.	12	50	334	
I-20	73B	Rt.	12	50	222	
I-26	75A	Rt.	12	40	201	
				TOTAL	8247	

SOUTH CAROLINA
HDR ENGINEERING INC. OF THE CAROLINAS
No. C0318
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 24246
DAVID J. OWENS

8/10/2023

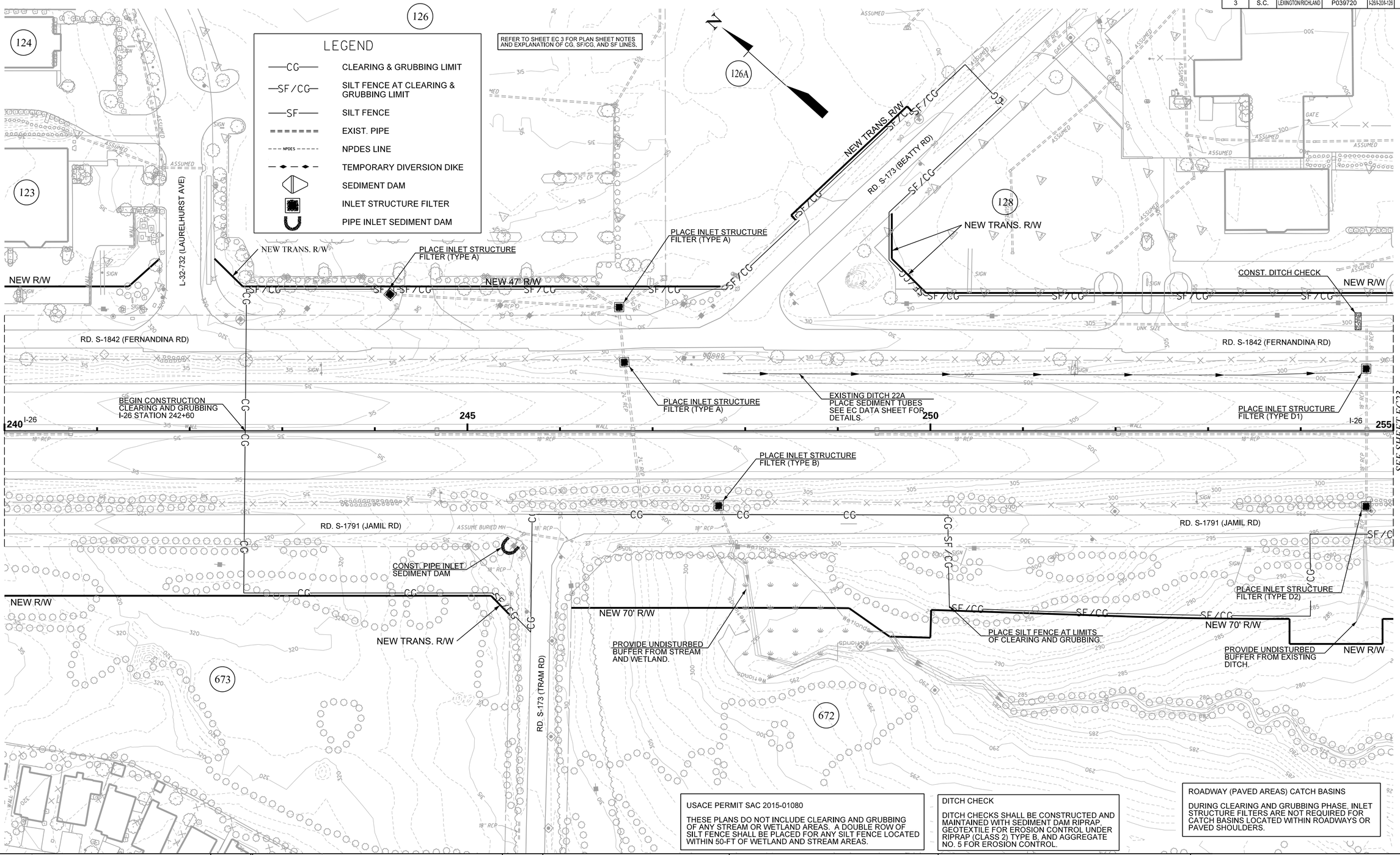
SEDIMENT DAM

NO	ROAD / ROUTE	STATION	SIDE	DRAINED OR NOT DRAINED	LENGTH OF SILT BASIN	WIDTH OF SILT BASIN	DAM HEIGHT	SIDE SLOPE OF SILT BASIN	SPILLWAY BOTTOM WIDTH	DAM BOTTOM WIDTH	RIP RAP CLASS	TOTAL STORAGE VOLUME	SEDIMENT STORAGE HEIGHT	OUTFALL CHANNEL WIDTH	OUTFALL CHANNEL DEPTH	OUTFALL CHANNEL LENGTH
24A	I-26	275+90	RT	NOT DRAINED	60 FT	12 FT	4 FT	1:1	11 FT	3 FT	A	152 CY	22 CY	-	-	-
26A	I-26	300+50	LT	NOT DRAINED	50 FT	18 FT	4 FT	1:1	12 FT	4 FT	B	176 CY	26 CY	4 FT	2 FT	10
27A	I-26	319+75	LT	NOT DRAINED	36 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	65 CY	9 CY	3 FT	2 FT	10
29A	I-26	356+00	LT	NOT DRAINED	56 FT	18 FT	4 FT	1:1	12 FT	6 FT	B	196 CY	30 CY	6 FT	2 FT	10
33A	I-26	408+00	RT	NOT DRAINED	115 FT	20 FT	4 FT	1:1	14 FT	6 FT	B	423 CY	67 CY	6 FT	2 FT	10
39A	I-20	36+00	LT	NOT DRAINED	40 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	72 CY	10 CY	3 FT	2 FT	10
39B	I-20	35+50	RT	NOT DRAINED	46 FT	12 FT	4 FT	1:1	11 FT	3 FT	A	119 CY	17 CY	3 FT	2 FT	10
39C	I-20	36+25	RT	NOT DRAINED	44 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	78 CY	11 CY	3 FT	2 FT	10
40A	I-20	57+75	RT	NOT DRAINED	110 FT	20 FT	4 FT	1:1	14 FT	6 FT	B	405 CY	64 CY	6 FT	2 FT	16
41A	I-20	69+25	RT	NOT DRAINED	50 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	88 CY	12 CY	3 FT	2 FT	10
42A	I-20	77+50	LT	NOT DRAINED	62 FT	12 FT	4 FT	1:1	11 FT	3 FT	A	156 CY	23 CY	3 FT	2 FT	10
42B	I-20	76+10	RT	NOT DRAINED	40 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	72 CY	10 CY	3 FT	2 FT	10
42C	I-20	76+80	RT	NOT DRAINED	44 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	78 CY	11 CY	3 FT	2 FT	10
42D	I-20	86+50	LT	NOT DRAINED	34 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	62 CY	8 CY	3 FT	2 FT	10
43A	I-20	89+00	RT	NOT DRAINED	50 FT	12 FT	4 FT	1:1	11 FT	3 FT	A	128 CY	18 CY	3 FT	2 FT	10
43B	I-20	102+75	LT	NOT DRAINED	36 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	65 CY	8 CY	3 FT	2 FT	10
43C	I-20	103+75	RT	NOT DRAINED	50 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	88 CY	12 CY	3 FT	2 FT	10
44A	I-20	112+25	LT	NOT DRAINED	58 FT	10 FT	3 FT	1:1	9 FT	3 FT	A	88 CY	12 CY	3 FT	2 FT	40
45A	I-20	132+00	RT	NOT DRAINED	34 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	62 CY	8 CY	3 FT	2 FT	10
45B	I-20	131+50	LT	NOT DRAINED	28 FT	8 FT	3 FT	1:1	9 FT	3 FT	A	38 CY	5 CY	3 FT	2 FT	10
46A	I-20	143+75	RT	NOT DRAINED	54 FT	16 FT	4 FT	1:1	12 FT	4 FT	B	172 CY	26 CY	4 FT	2 FT	10
46B	I-20	145+75	RT	NOT DRAINED	102 FT	20 FT	4 FT	1:1	14 FT	6 FT	B	377 CY	60 CY	6 FT	2 FT	10
46C	I-20	148+50	RT	NOT DRAINED	64 FT	14 FT	4 FT	1:1	12 FT	4 FT	B	181 CY	27 CY	4 FT	2 FT	60
48A	I-20	178+25	RT	NOT DRAINED	52 FT	12 FT	3 FT	1:1	9 FT	3 FT	A	92 CY	13 CY	3 FT	2 FT	10
50A	I-20	205+50	RT	NOT DRAINED	94 FT	20 FT	4 FT	1:1	12 FT	6 FT	B	348 CY	55 CY	6 FT	2 FT	10

8/10/2023
c:\pwworking\east01\d2985929\EC_SHT_5_ECDataSheet.xlsx]ECDS SHEET 1

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC22



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

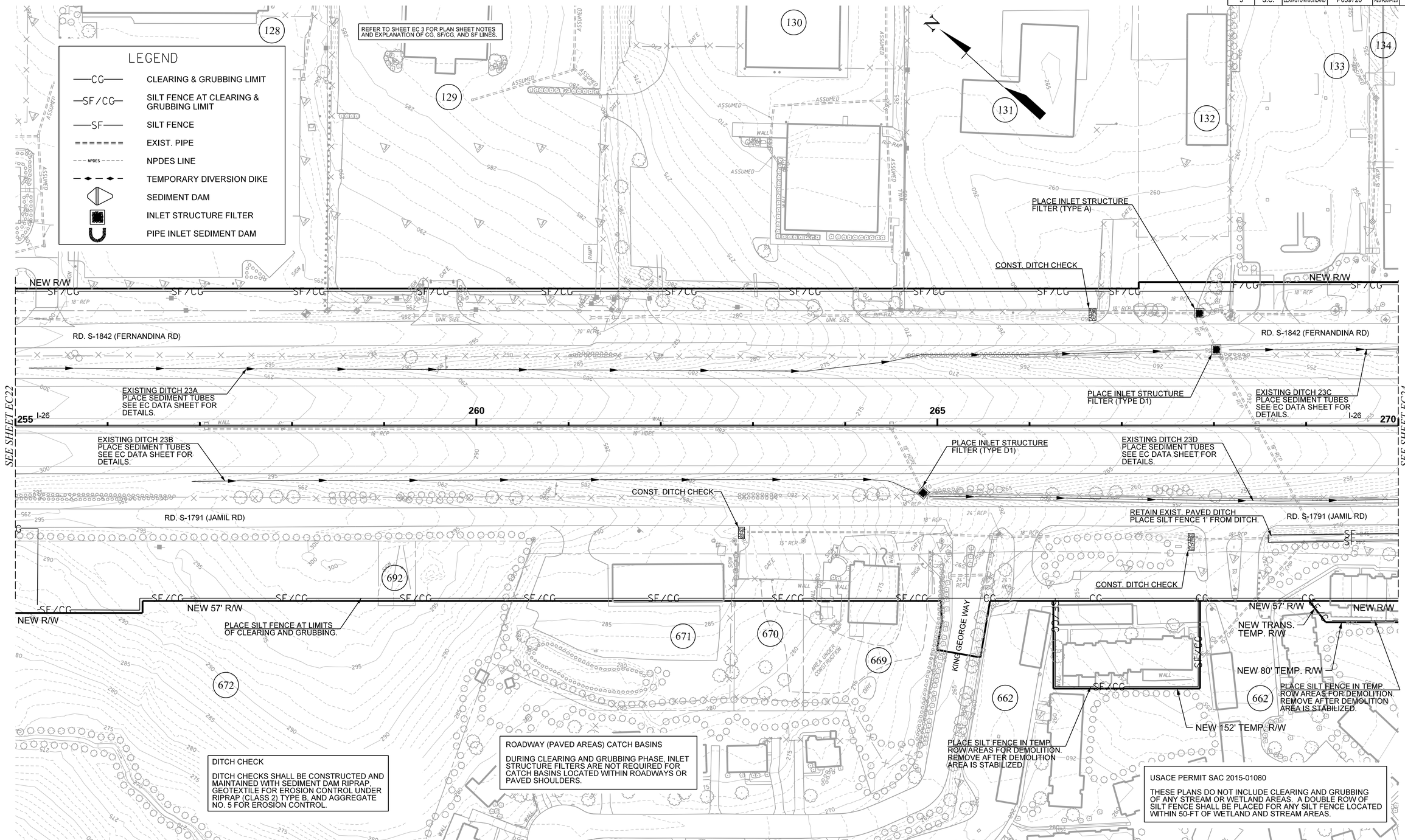
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC23



DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

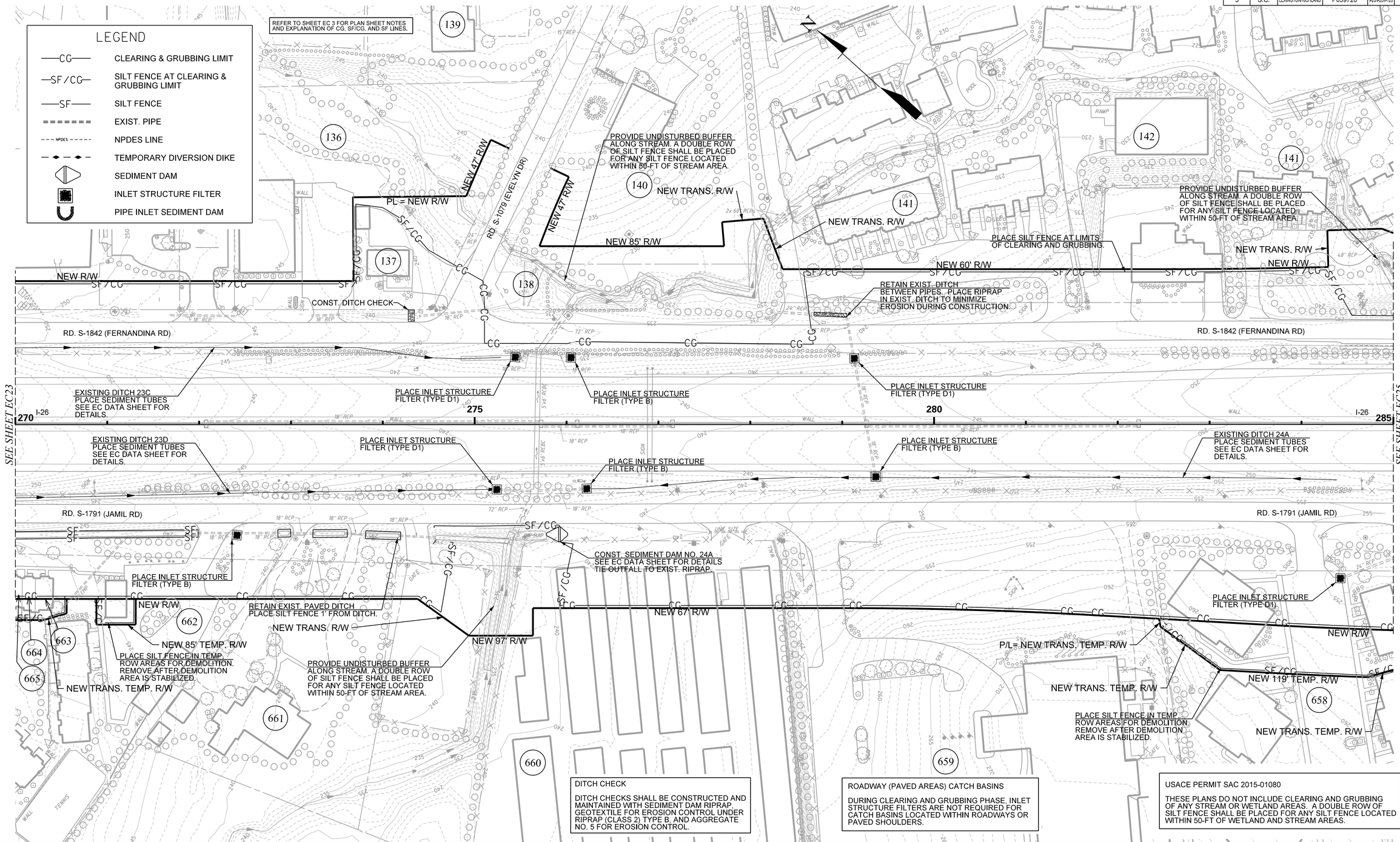
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC24



DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 RICHARD J. OWENS, Jr.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

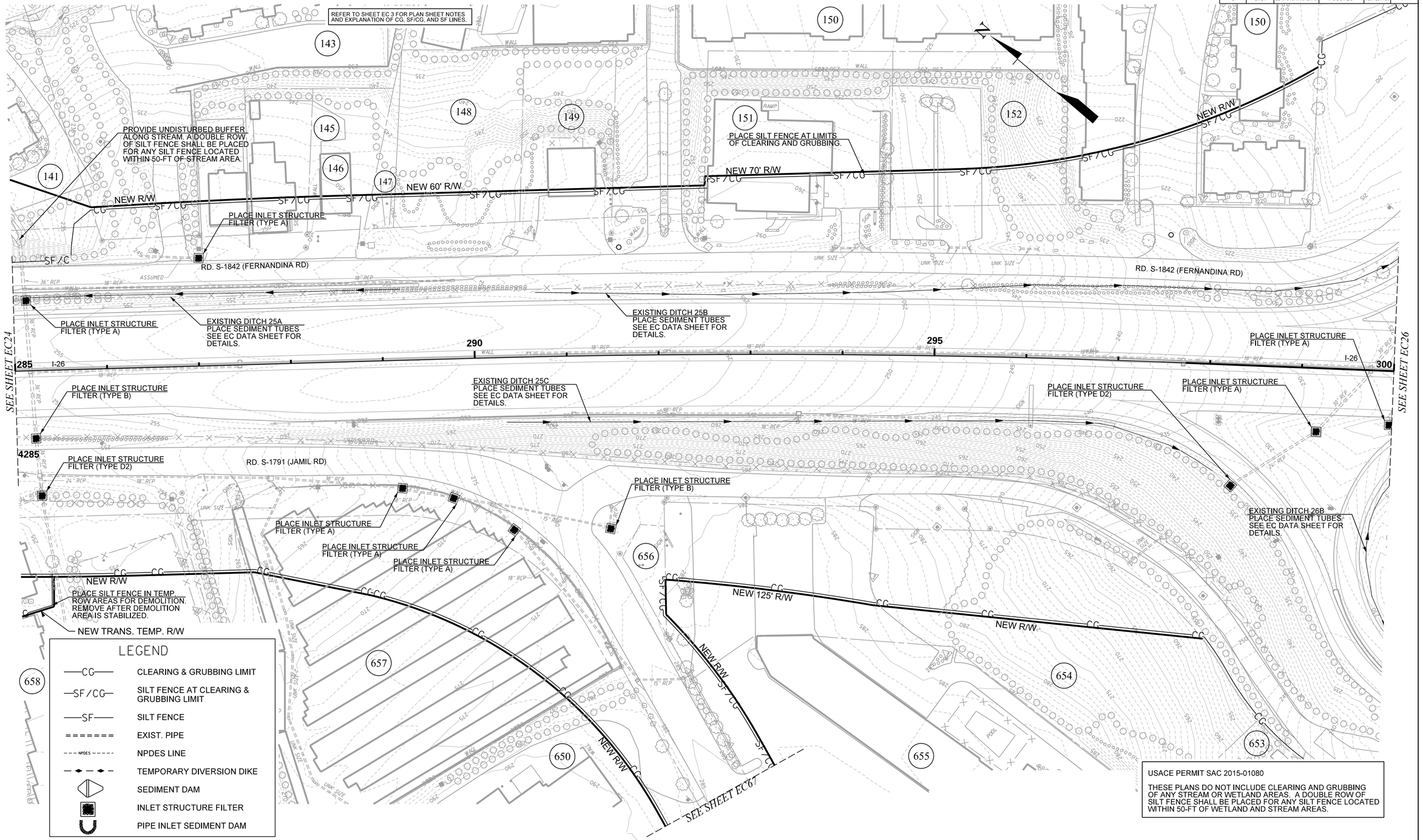
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC25



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 — EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

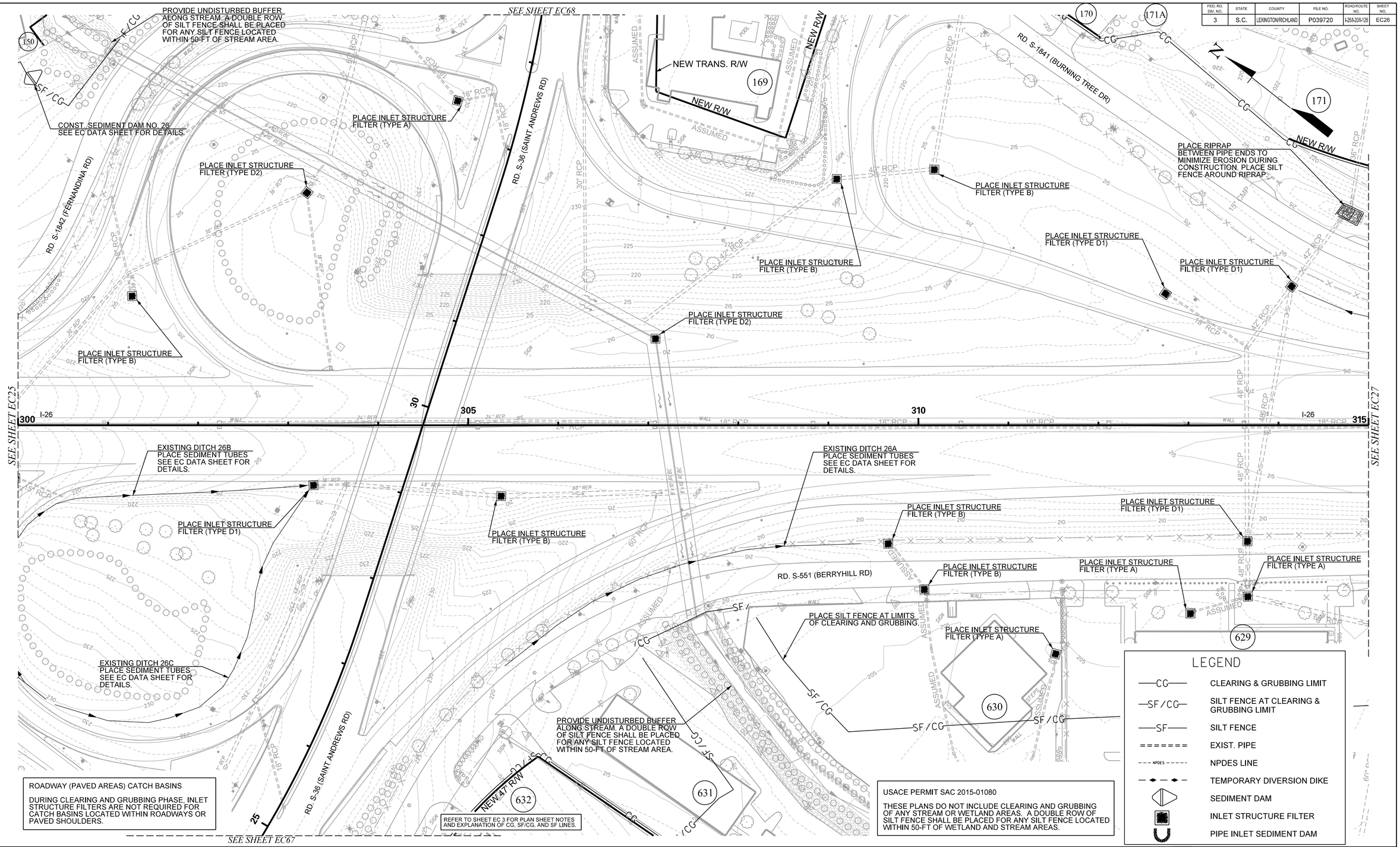
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC26



ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION NO.

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

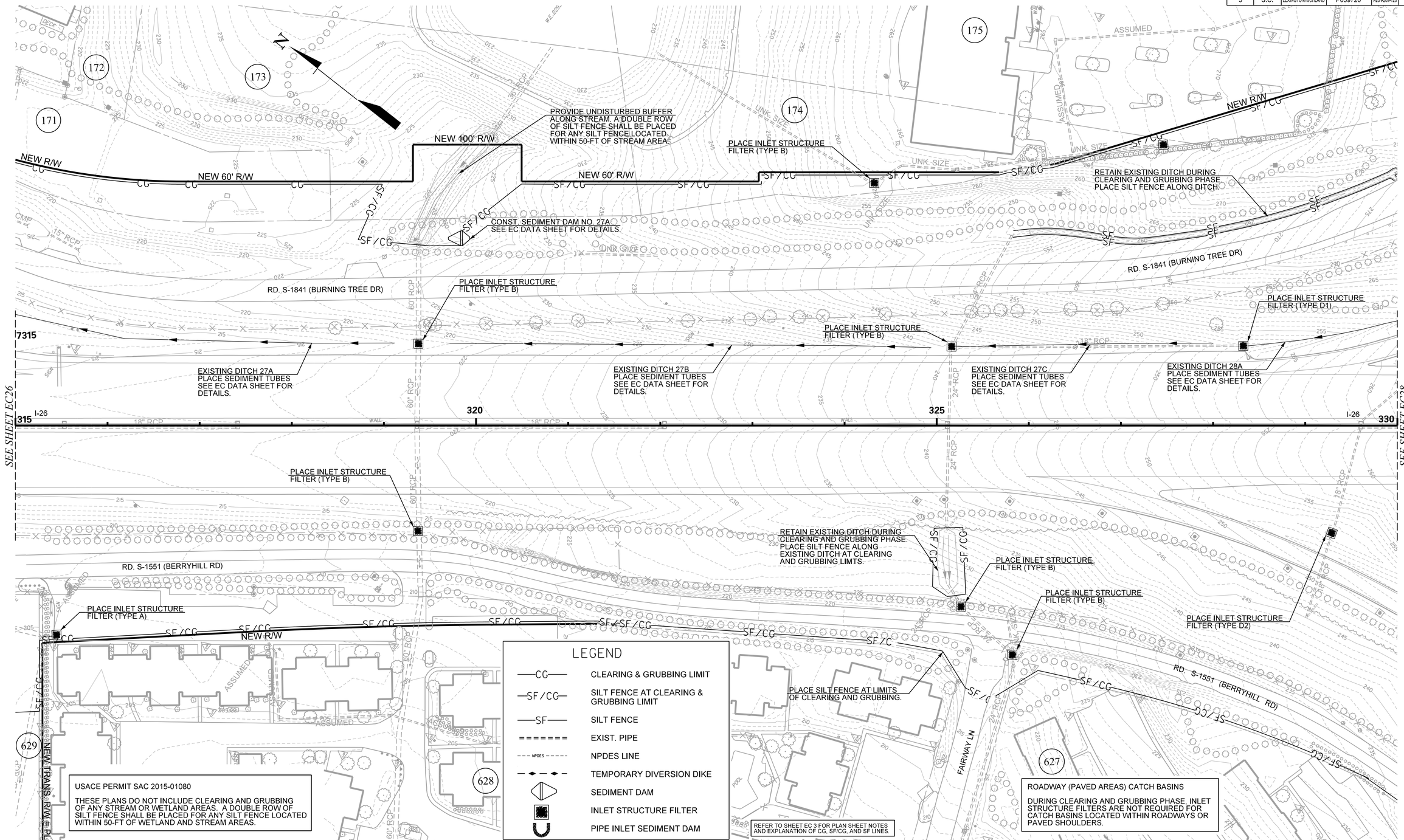
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC27



TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 — FRED J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

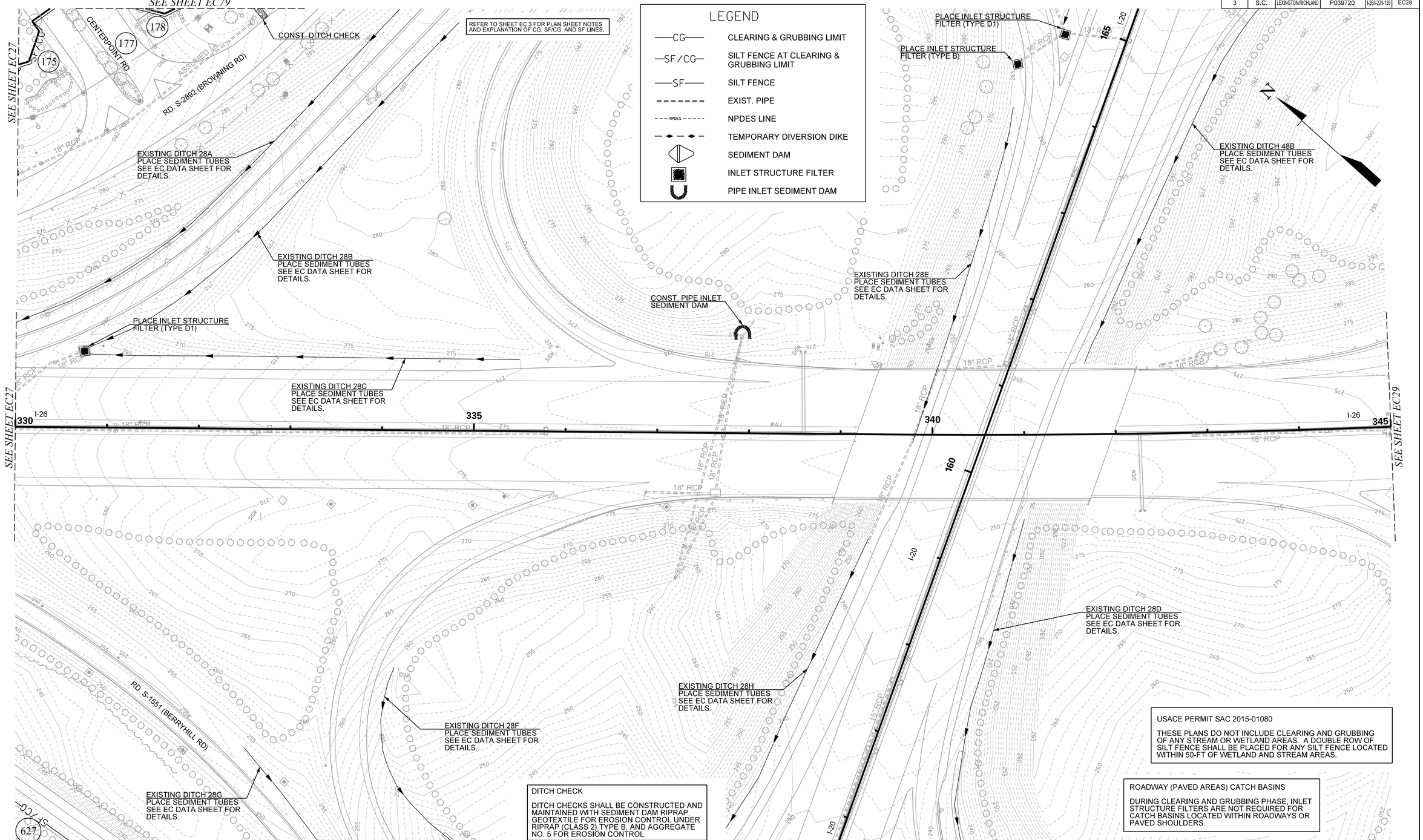
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC28



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA PROFESSIONAL ENGINEER DESIGN No. 24246 EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

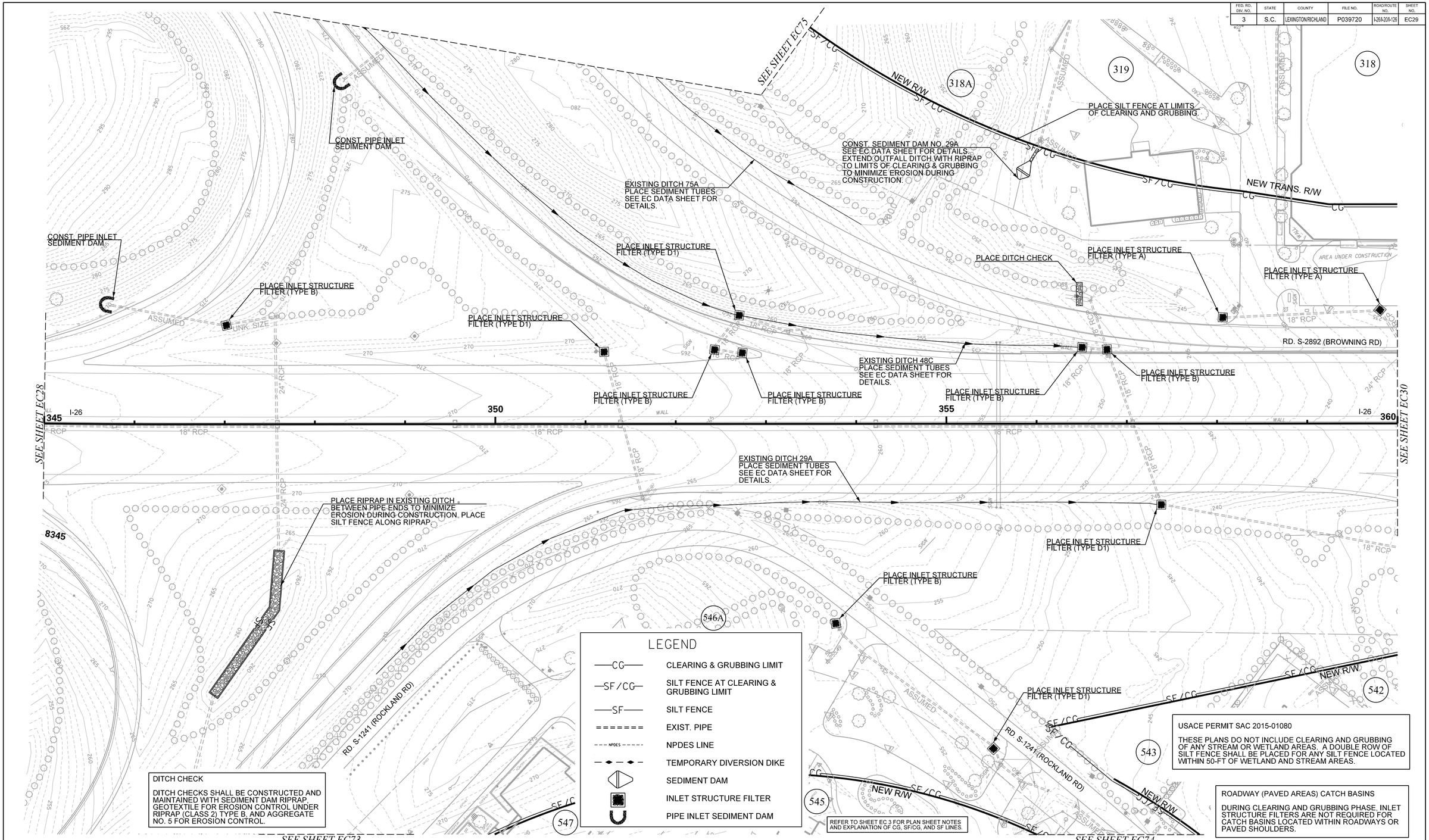
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC29



DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS CERTIFICATE OF AUTHORIZATION NO. C0398

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC30

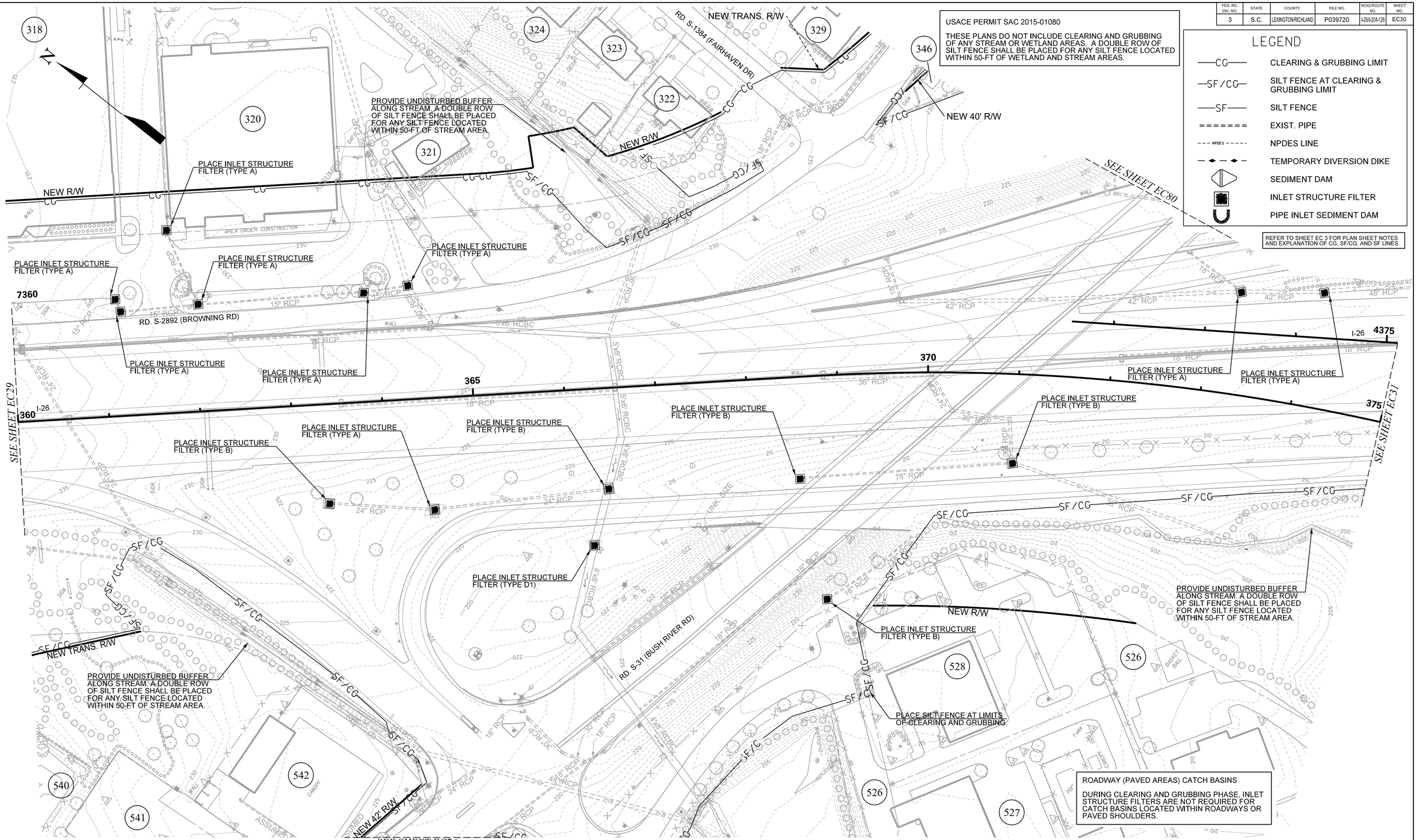
USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 — EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

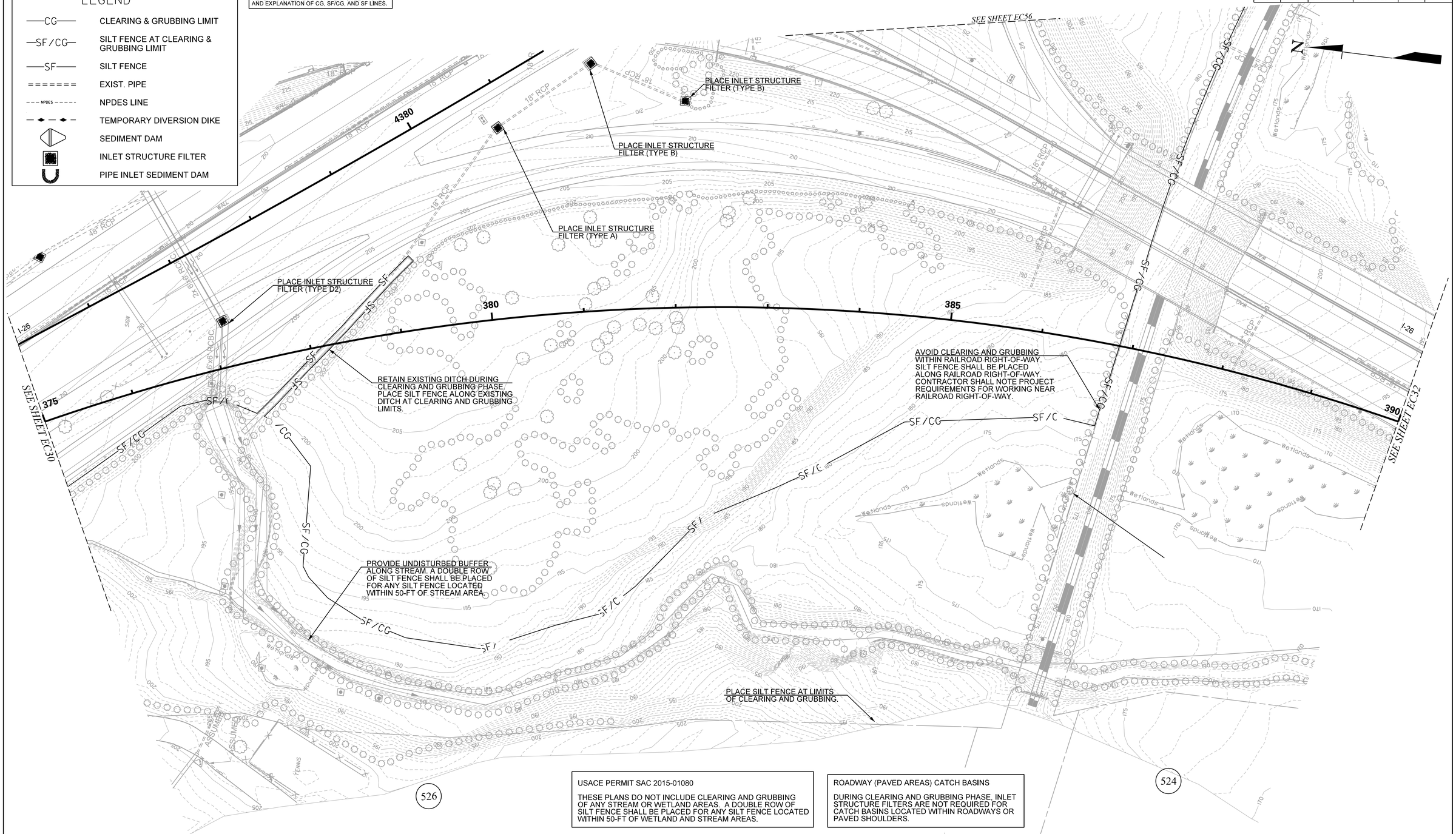
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC31

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES ---	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0398

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

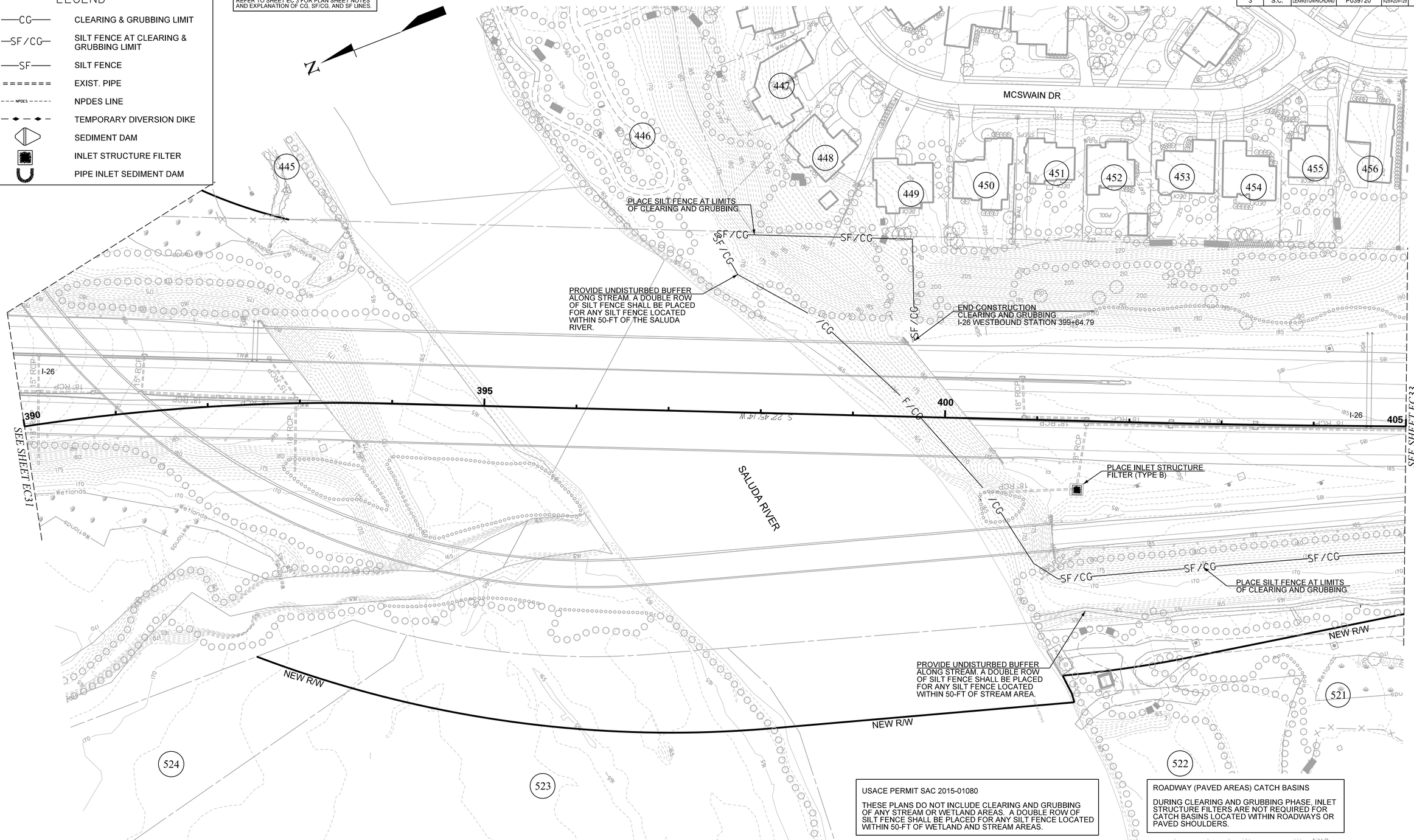
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC32

LEGEND

- —CG— CLEARING & GRUBBING LIMIT
- —SF/CG— SILT FENCE AT CLEARING & GRUBBING LIMIT
- —SF— SILT FENCE
- EXIST. PIPE
- NPDES LINE
- TEMPORARY DIVERSION DIKE
- SEDIMENT DAM
- INLET STRUCTURE FILTER
- PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

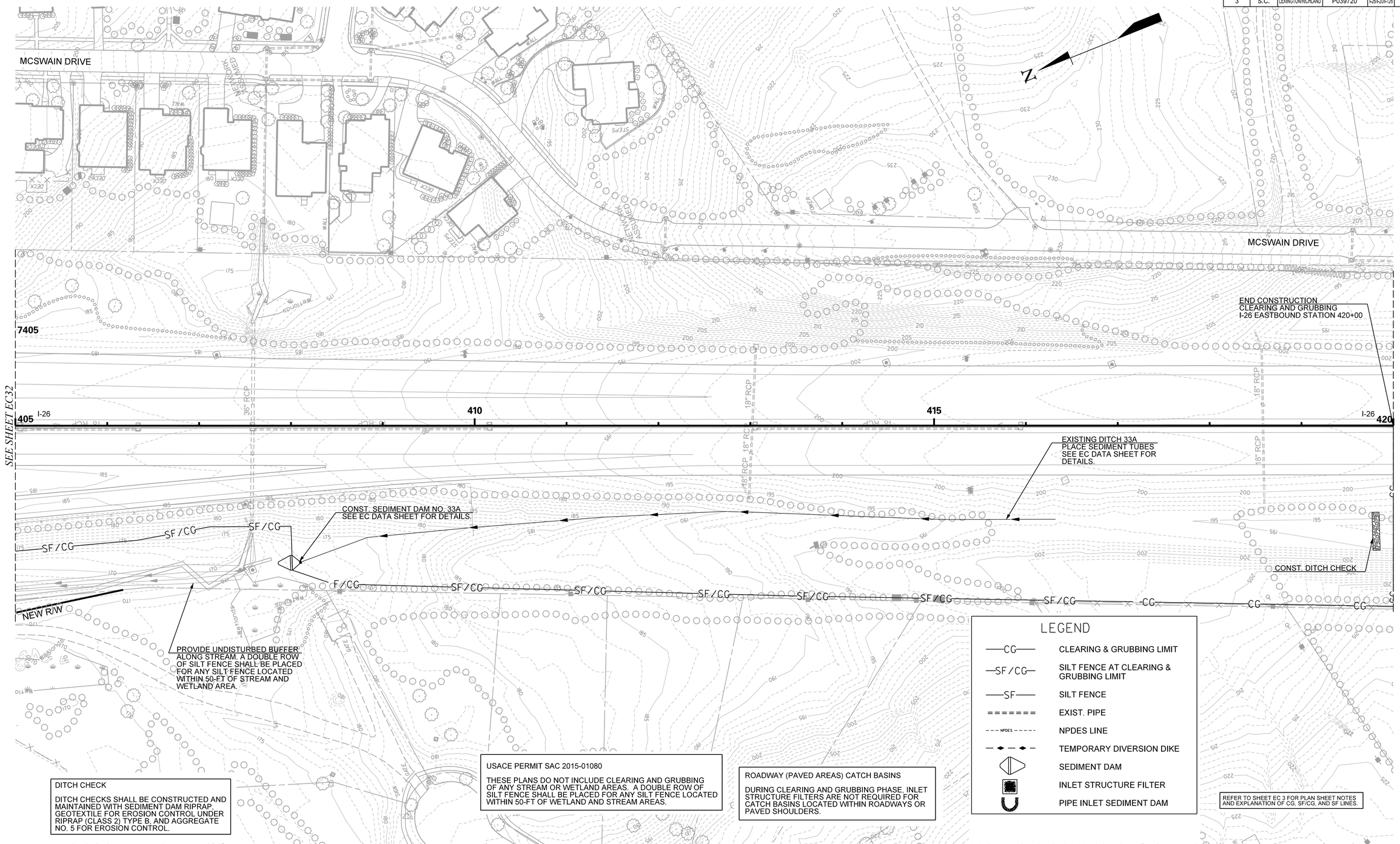
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC33



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

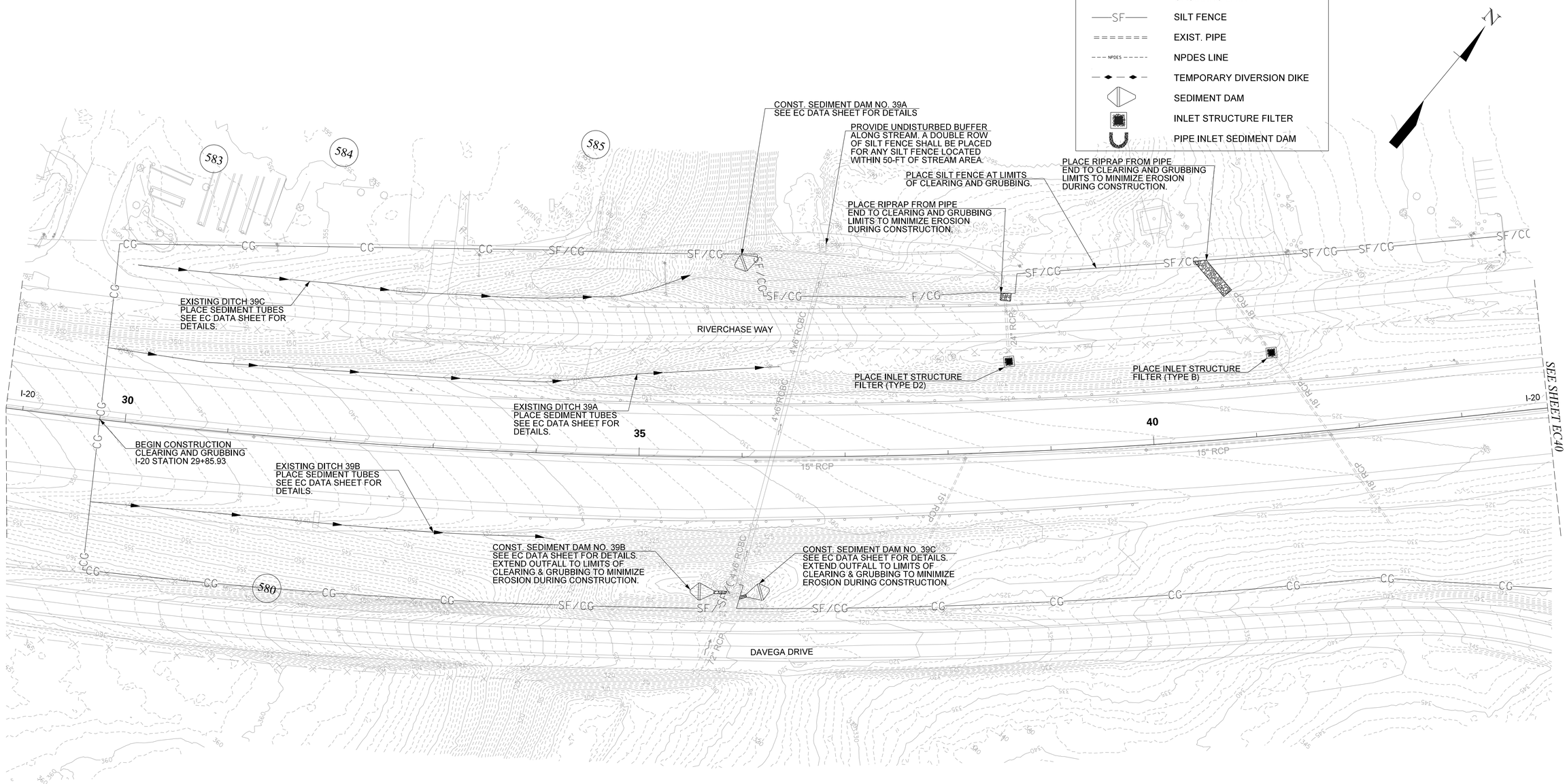
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC39

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
— ◆ — ◆ —	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM



DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

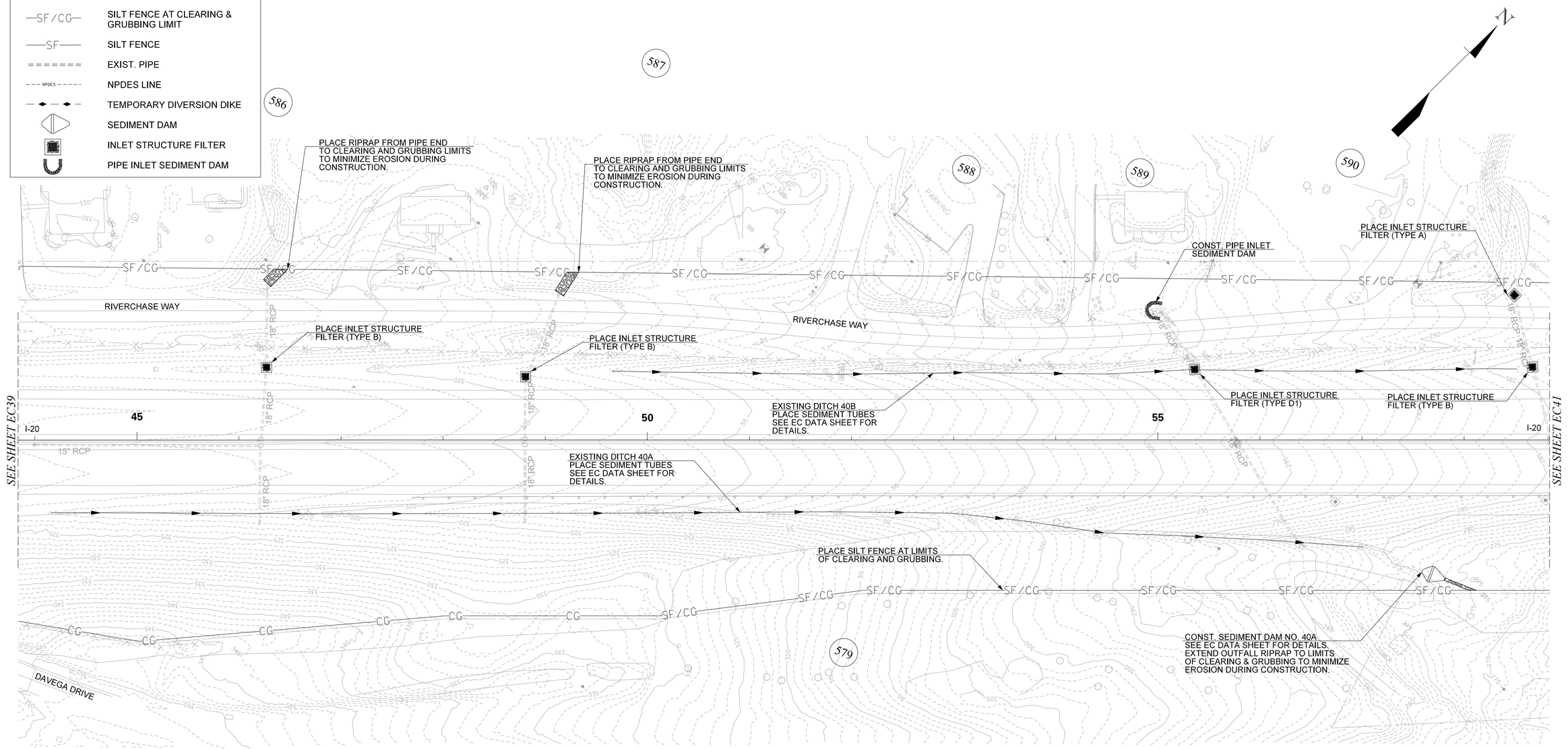
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC40

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

- CG — CLEARING & GRUBBING LIMIT
- SF/CG — SILT FENCE AT CLEARING & GRUBBING LIMIT
- SF — SILT FENCE
- EXIST. PIPE
- NPDES — NPDES LINE
- TEMPORARY DIVERSION DIKE
- SEDIMENT DAM
- INLET STRUCTURE FILTER
- PIPE INLET SEDIMENT DAM



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE

TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — LICENSED No. 24246 — EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

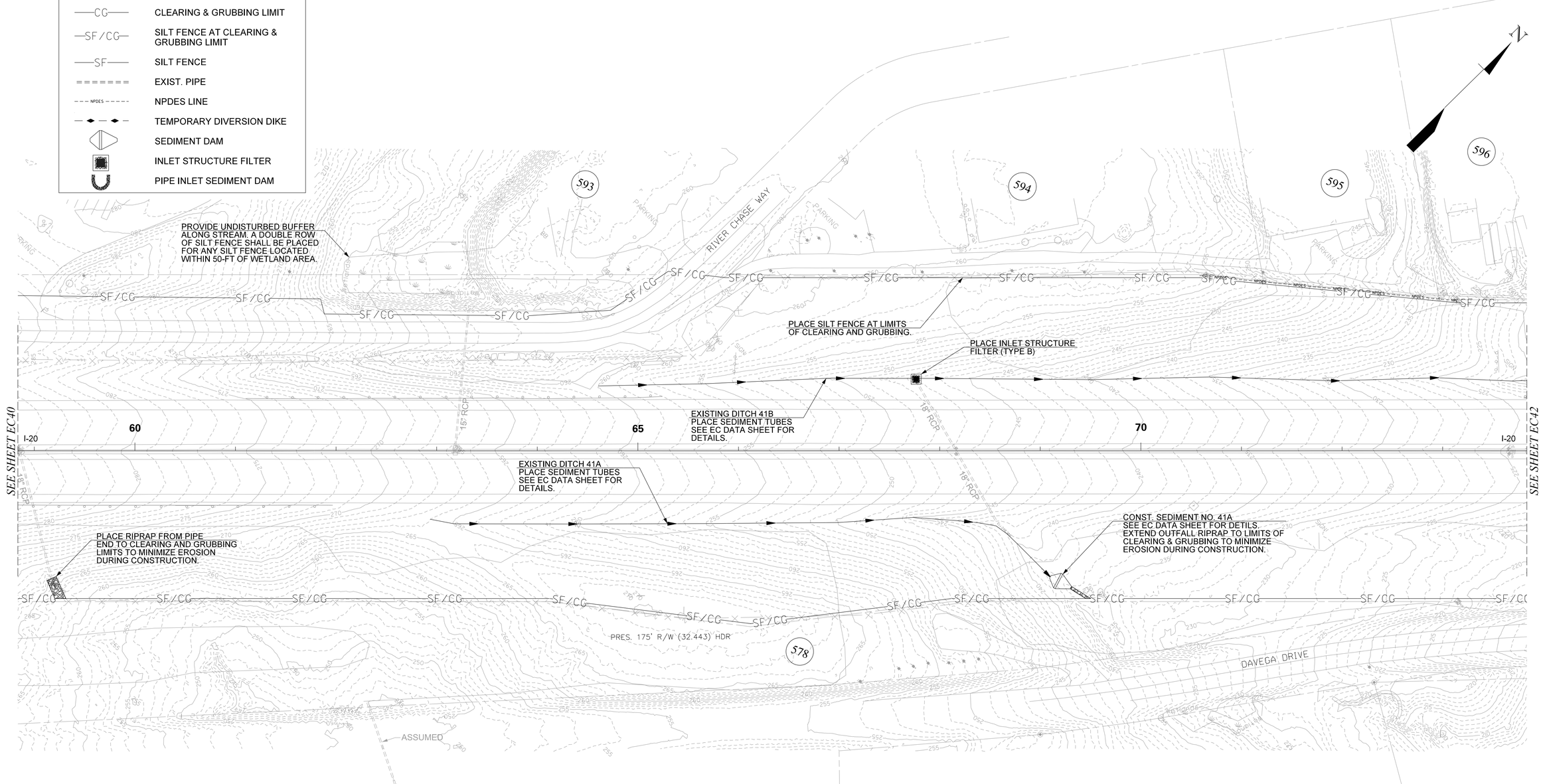
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-20/I-20/I-126	EC41

LEGEND

- CG — CLEARING & GRUBBING LIMIT
- SF/CG — SILT FENCE AT CLEARING & GRUBBING LIMIT
- SF — SILT FENCE
- EXIST. PIPE
- NPDES — NPDES LINE
- TEMPORARY DIVERSION DIKE
- SEDIMENT DAM
- INLET STRUCTURE FILTER
- PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA PROFESSIONAL ENGINEER — LICENSED No. 24246 — EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

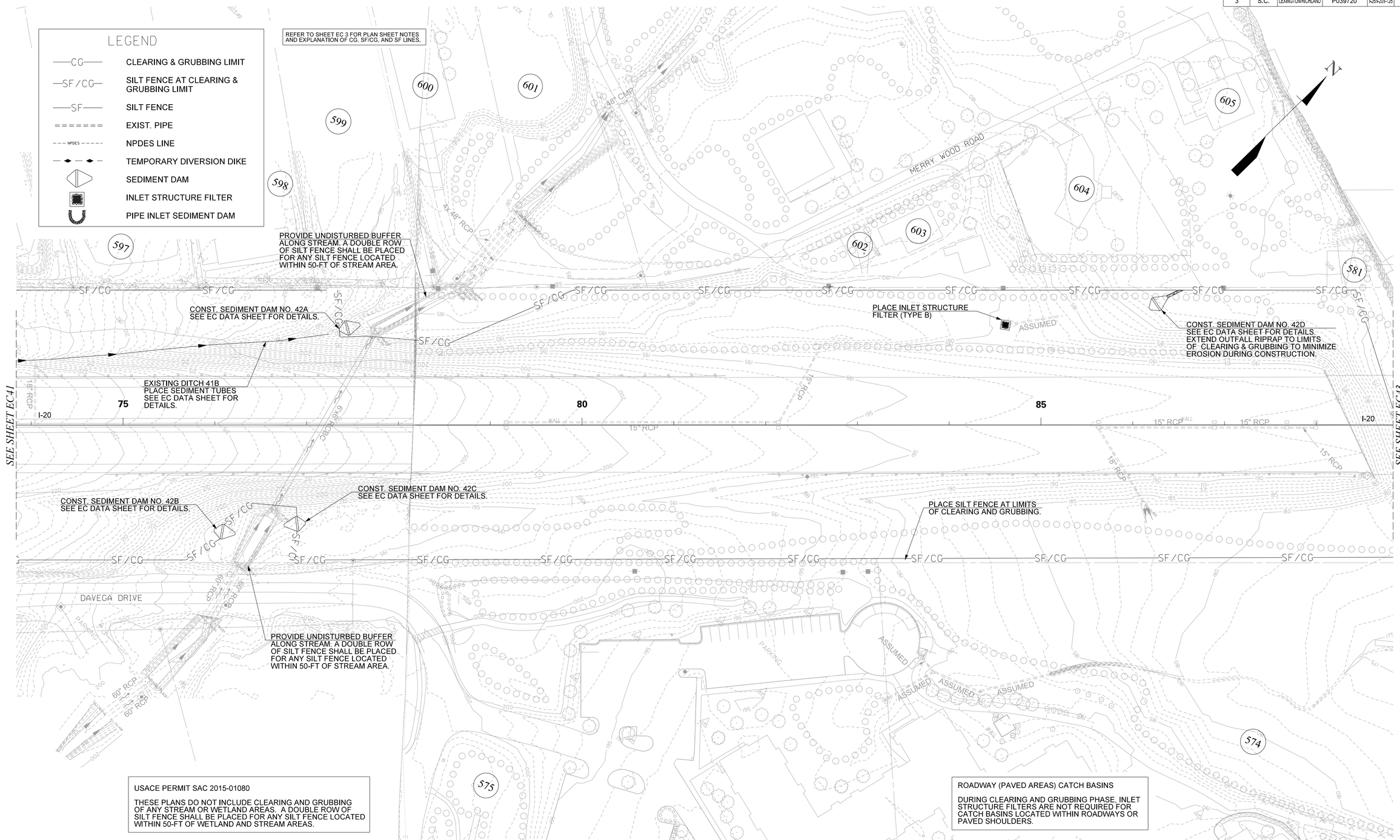
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC42



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 24246 EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

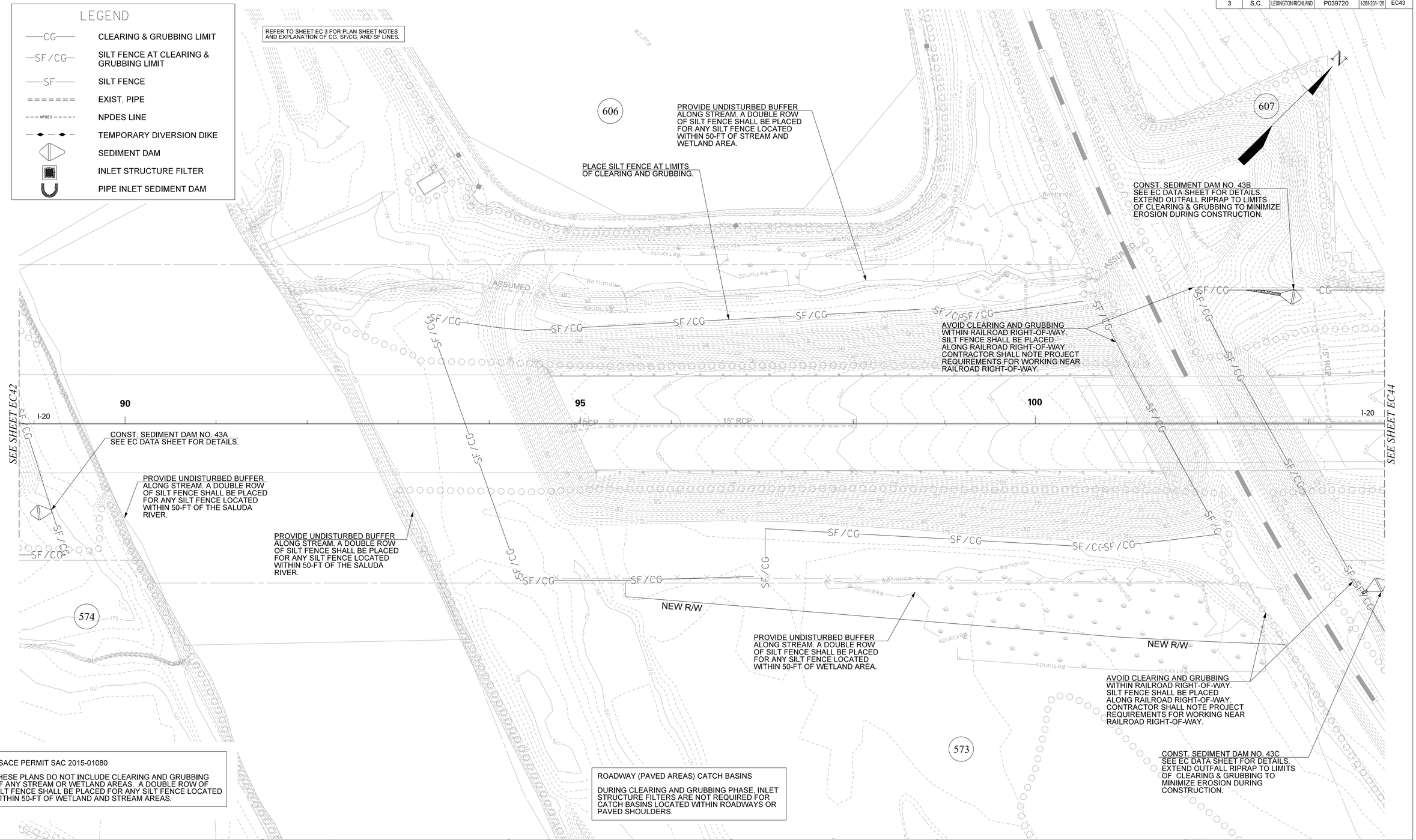
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC43

LEGEND

- CG — CLEARING & GRUBBING LIMIT
- SF/CG — SILT FENCE AT CLEARING & GRUBBING LIMIT
- SF — SILT FENCE
- EXIST. PIPE
- NPDES — NPDES LINE
- TEMPORARY DIVERSION DIKE
- SEDIMENT DAM
- INLET STRUCTURE FILTER
- PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — LICENSED PROFESSIONAL ENGINEER No. 24246 — PEDRO J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

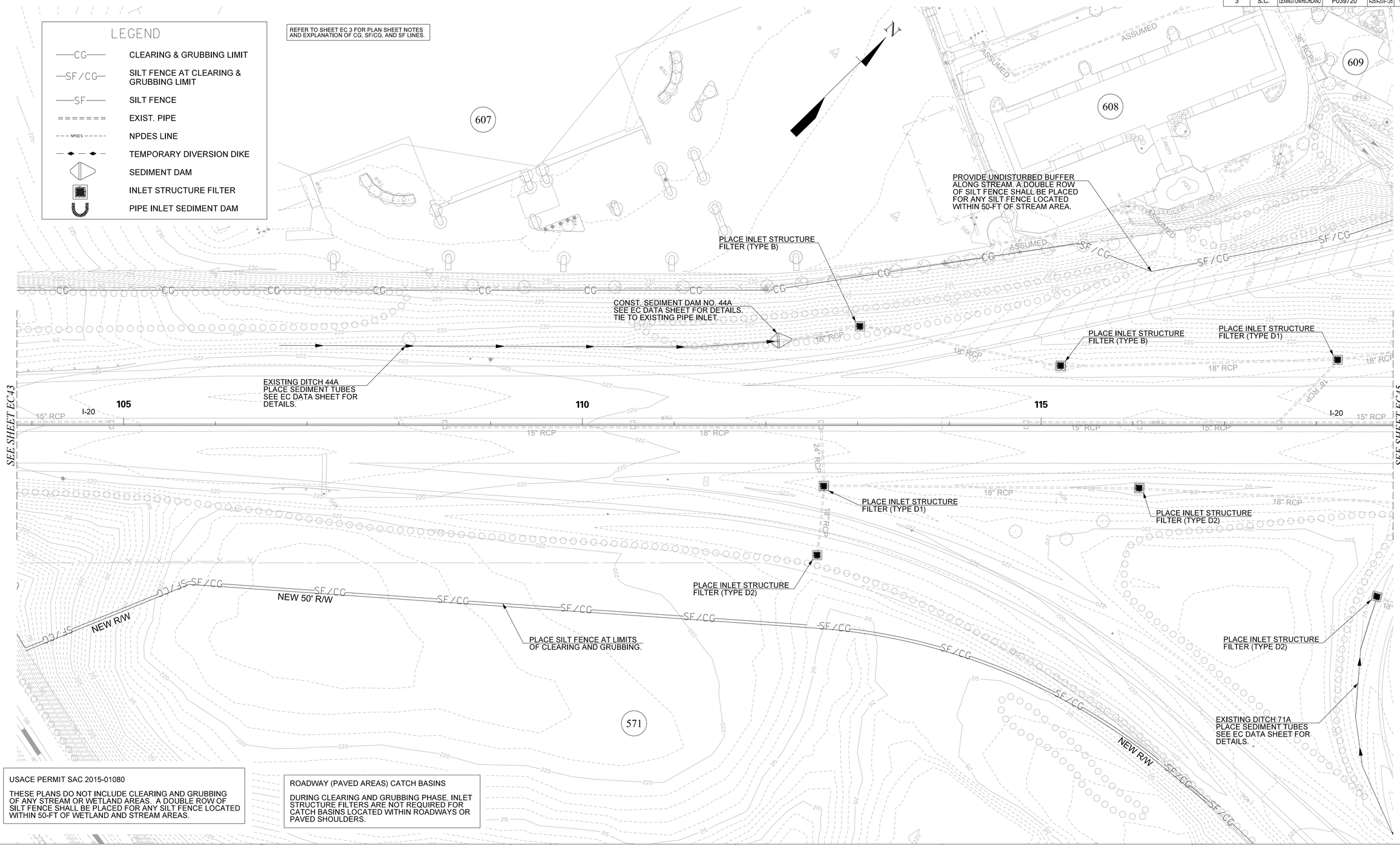
DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC44

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE

TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER LICENSED No. 24246 EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

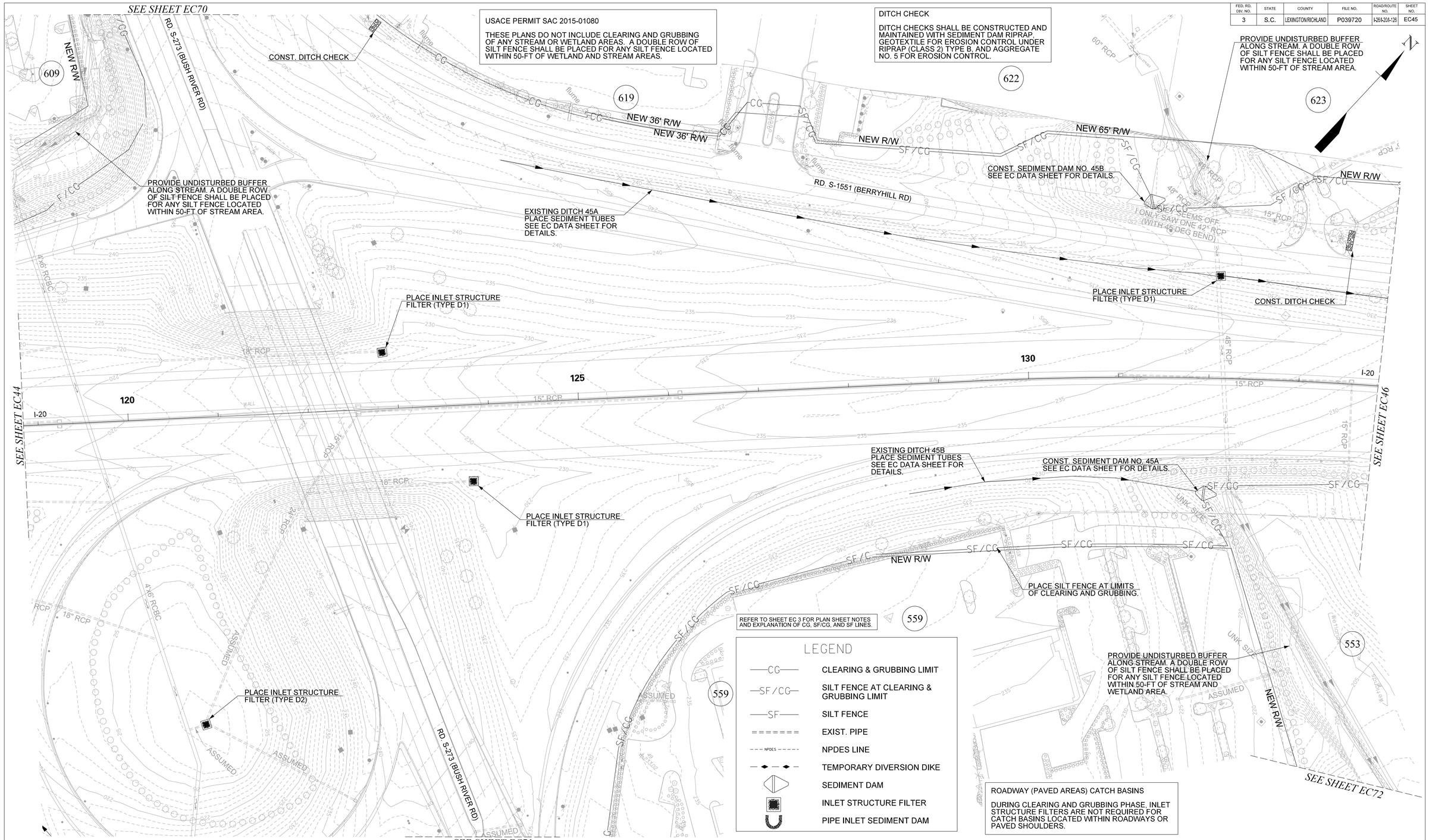
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-20/I-20/I-126	EC45



TRACT(S)	ISSUED FOR	DATE

TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER No. 24246 — EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC46

SEE SHEET EC69

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

PROVIDE UNDISTURBED BUFFER ALONG STREAM. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF STREAM AREA.

PLACE SILT FENCE IN TEMP. ROW AREAS FOR DEMOLITION. REMOVE AFTER DEMOLITION AREA IS STABILIZED.

PLACE SILT FENCE AT LIMITS OF CLEARING AND GRUBBING.

NEW TRANS. R/W

NEW R/W

NEW 36' R/W

NEW 55' R/W

NEW TRANS. R/W

EXECUTIVE CENTER DR

PLACE INLET STRUCTURE FILTER (TYPE B)

PLACE INLET STRUCTURE FILTER (TYPE D1)

RD. S-1551 (BERRYHILL RD)

INTERSTATE 20 WB

I-20

EXISTING DITCH 45A PLACE SEDIMENT TUBES SEE EC DATA SHEET FOR DETAILS.

EXISTING DITCH 46A PLACE SEDIMENT TUBES SEE EC DATA SHEET FOR DETAILS.

EXISTING DITCH 47C PLACE SEDIMENT TUBES SEE EC DATA SHEET FOR DETAILS.

EXISTING DITCH 73A PLACE SEDIMENT TUBES SEE EC DATA SHEET FOR DETAILS.

EXISTING DITCH 46B PLACE SEDIMENT TUBES SEE EC DATA SHEET FOR DETAILS.

CONST. SEDIMENT DAM NO. 46A SEE EC DATA SHEET FOR DETAILS.

CONST. SEDIMENT DAM NO. 46B SEE EC DATA SHEET FOR DETAILS.

CONST. SEDIMENT DAM NO. 46C SEE EC DATA SHEET FOR DETAILS

PLACE RIPRAP FROM SEDIMENT DAM TO DOWNSTREAM PIPE TO MINIMIZE EROSION DURING CONSTRUCTION.

RD. S-1241 (ROCKLAND RD)

NEW TRANS. R/W = P/L

NEW TRANS. R/W = P/L

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

SEE SHEET EC45

SEE SHEET EC47

SEE SHEET EC72

SEE SHEET EC72

SEE SHEET EC73

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

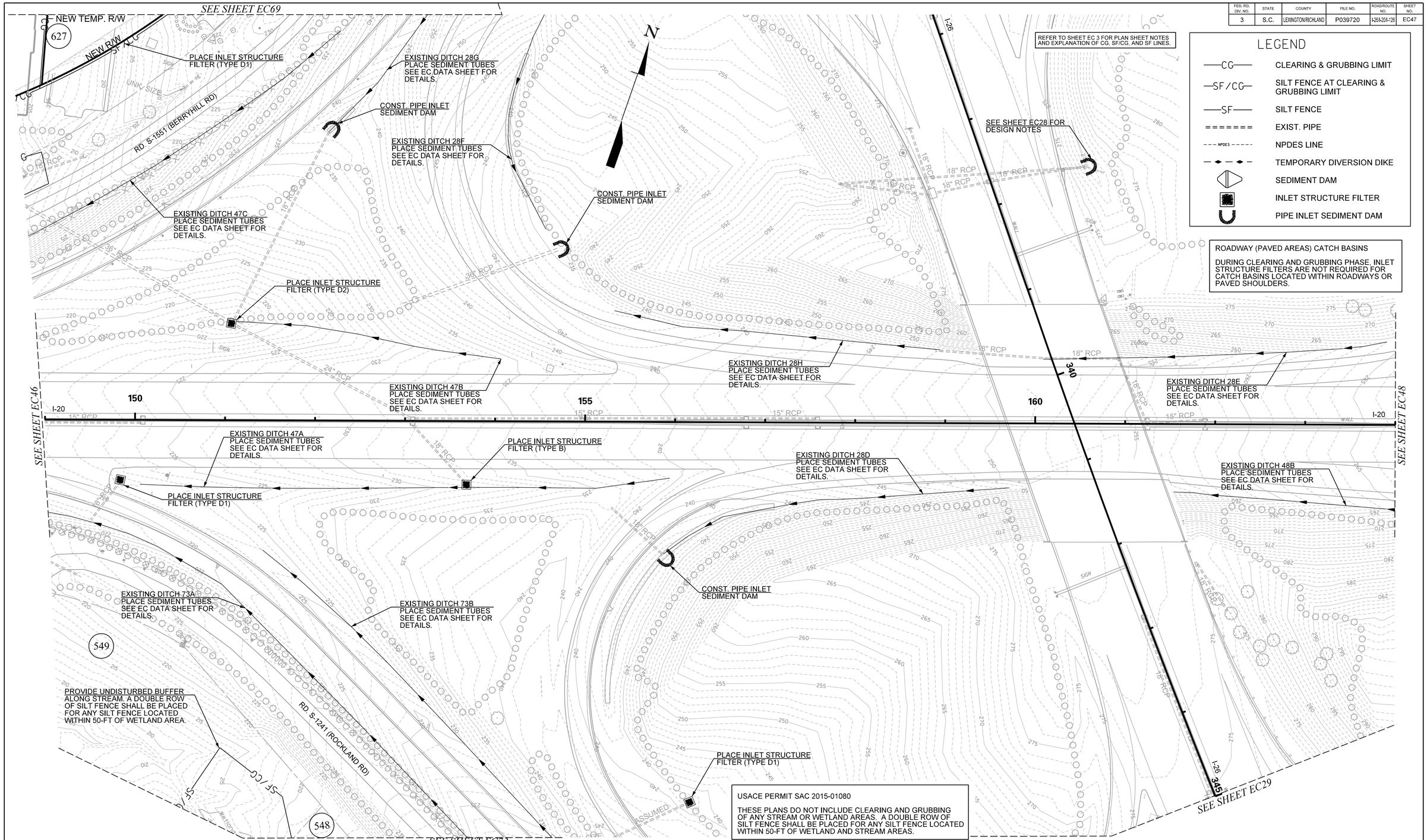
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC47



REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 LICENSED EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

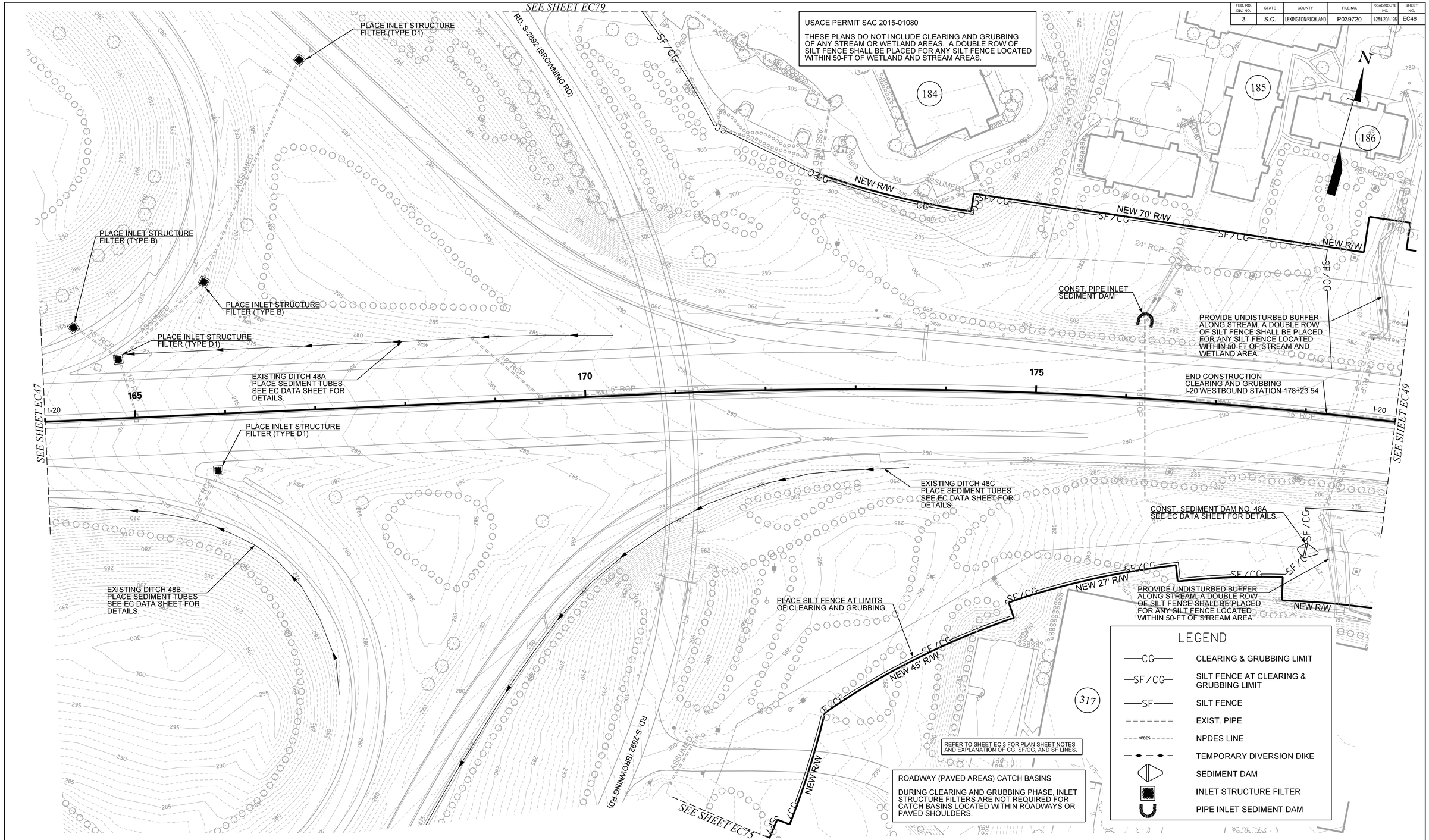
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC48

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.



REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE

TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 LICENSED EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

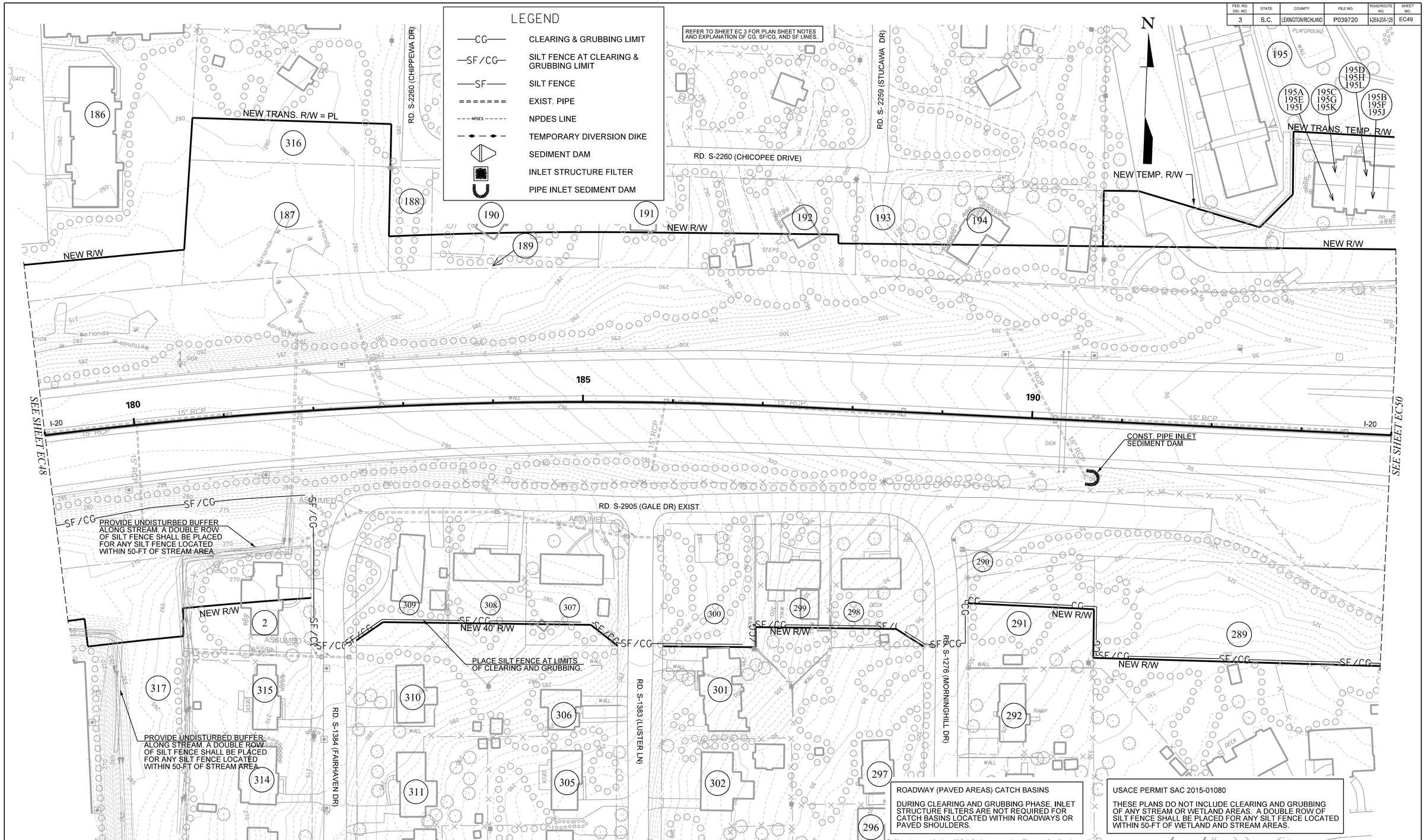
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-20/I-20/I-126	EC49



TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

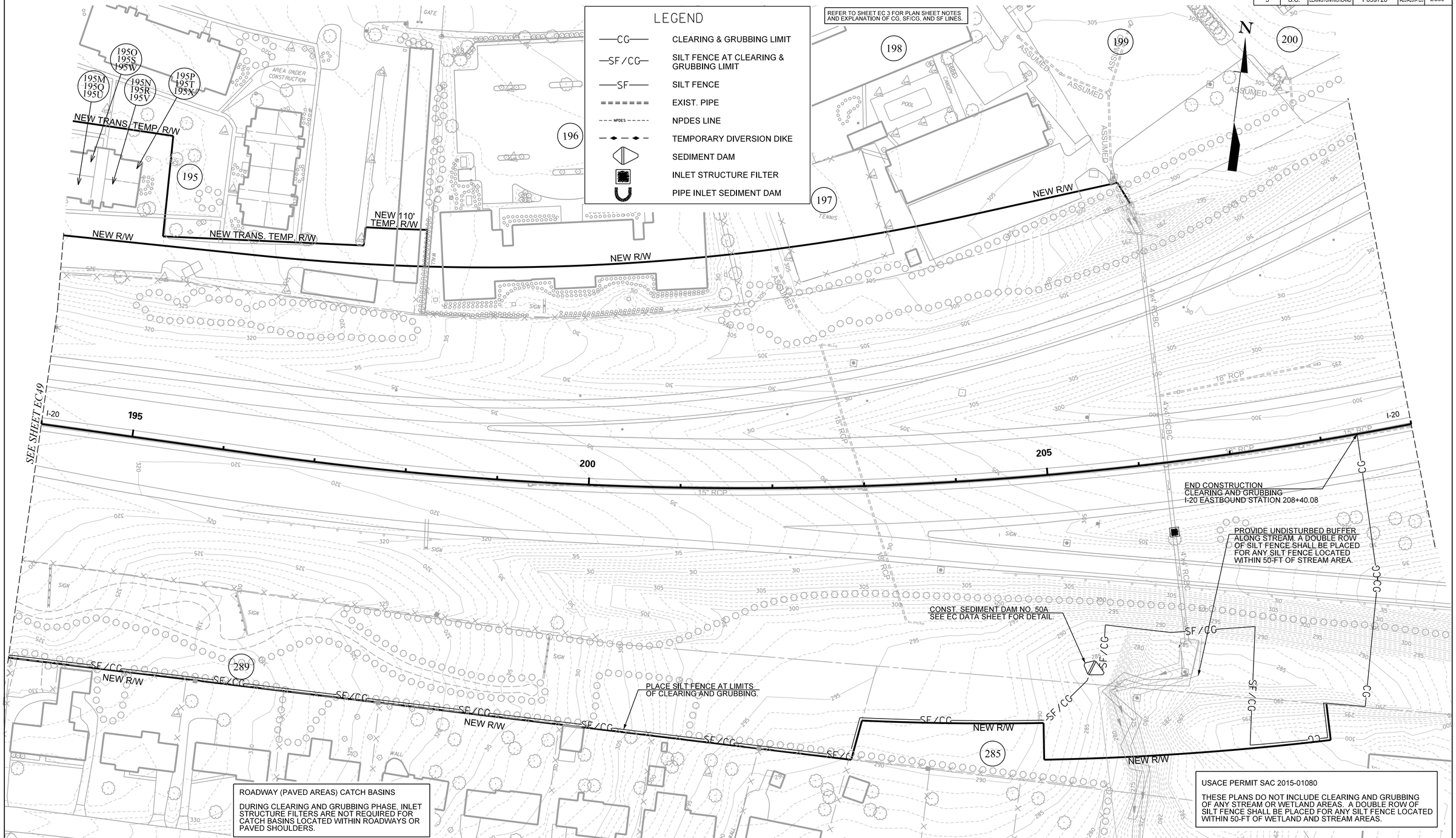
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC50



ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

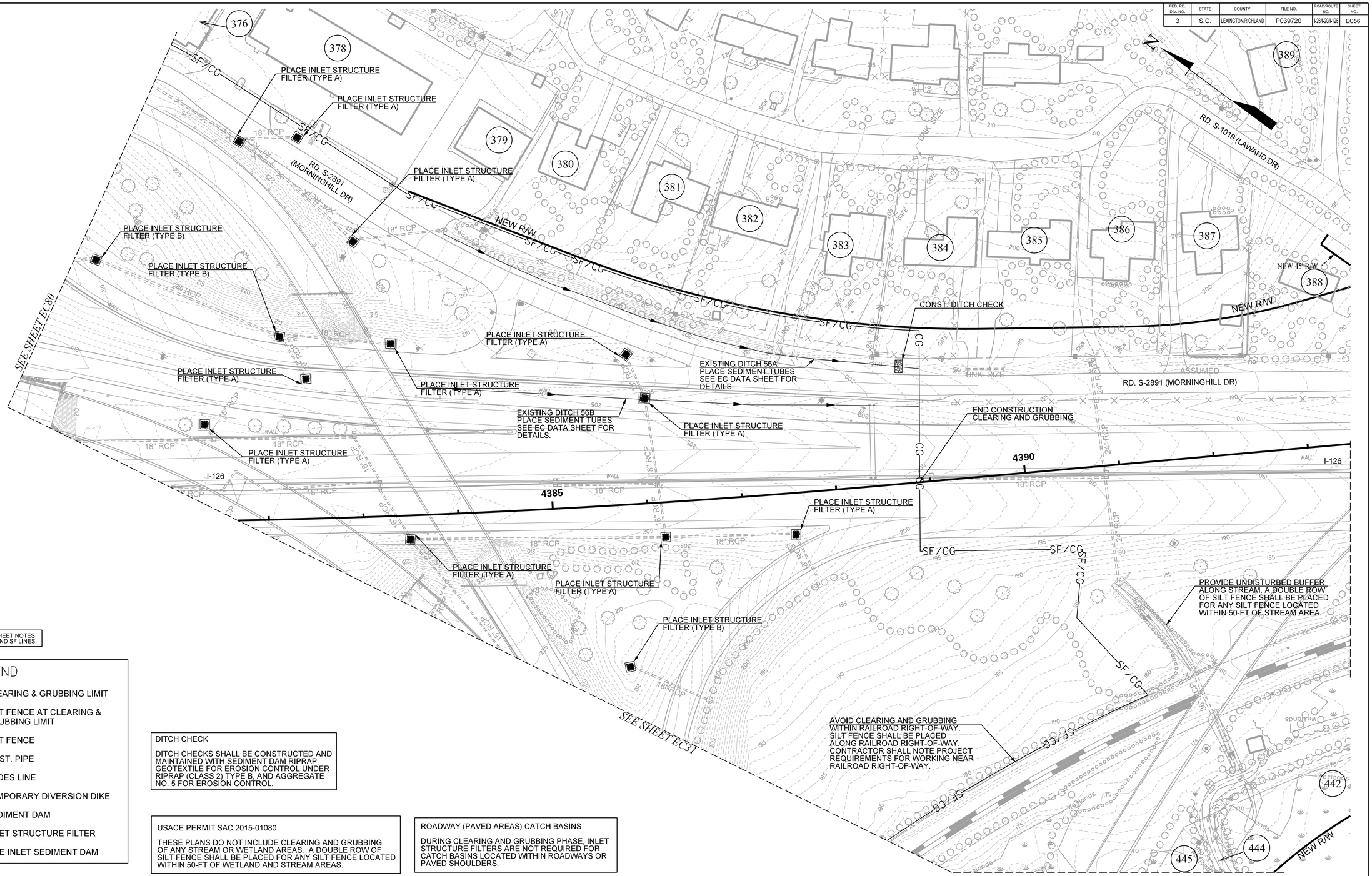
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC56



REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES ---	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

DITCH CHECK

DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER — LICENSED No. 24246 — EDWARD J. OWENS, Jr. — 8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

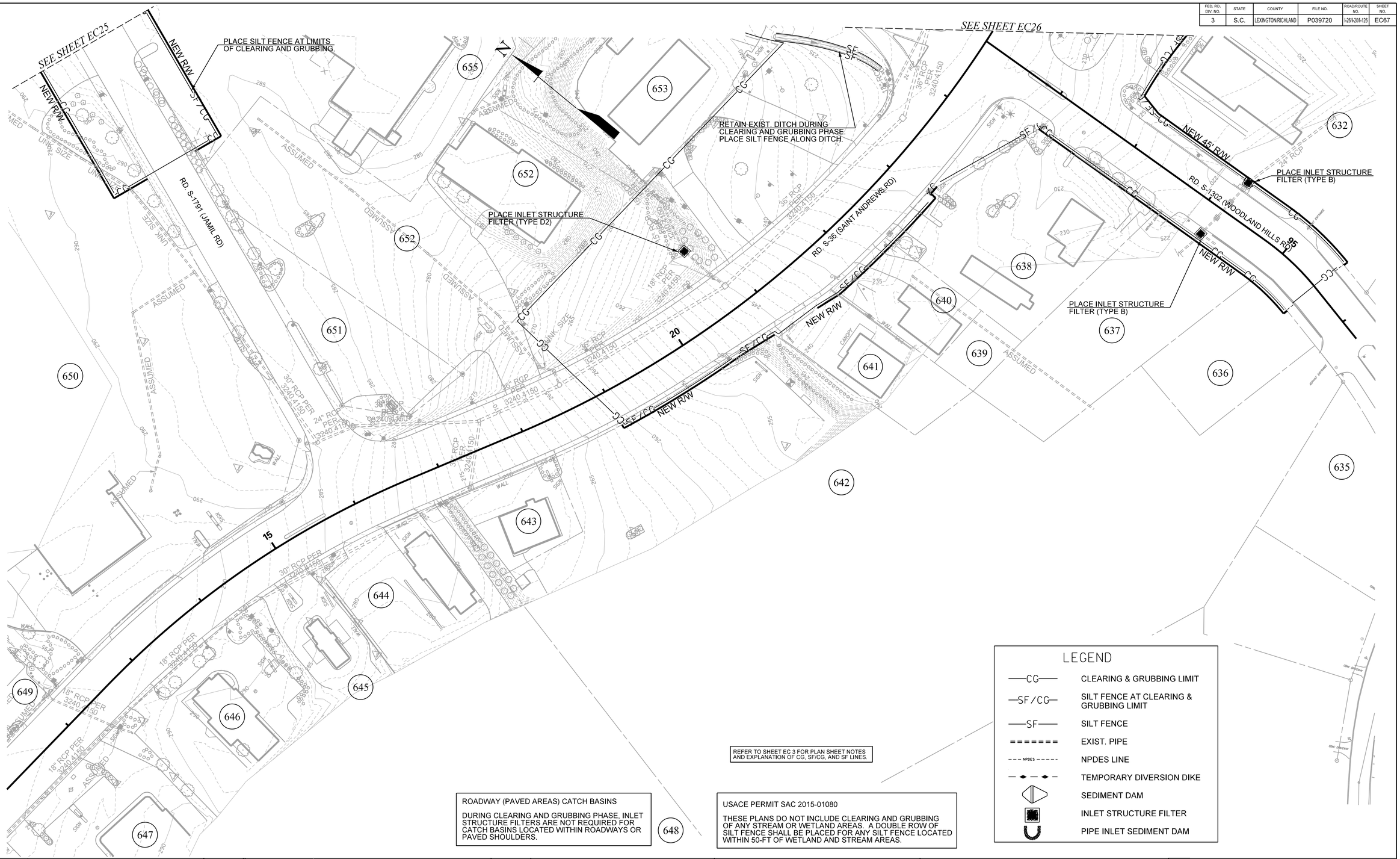
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC67



REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES ---	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC68

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

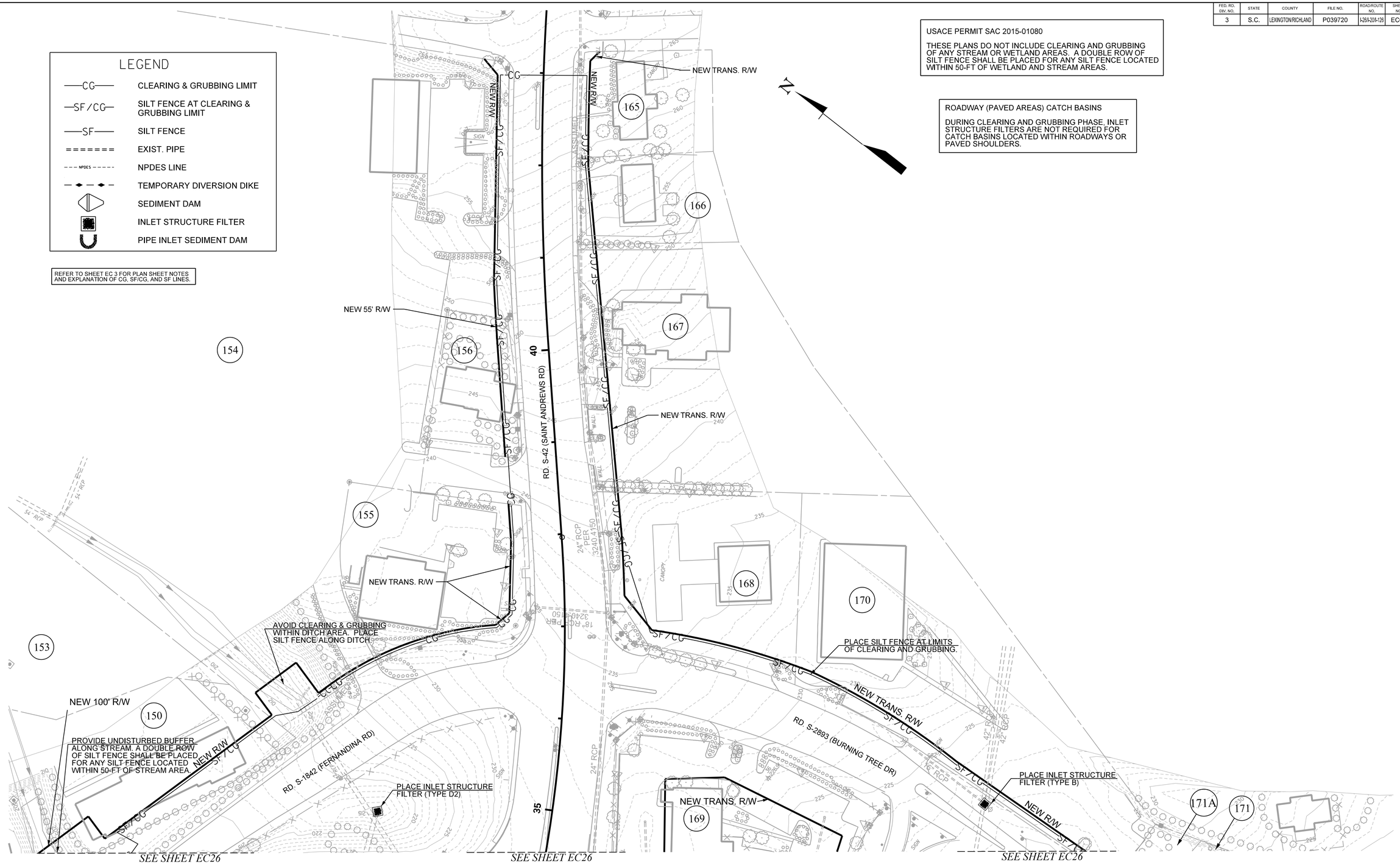
ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES -----	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



TRACT(S)	ISSUED FOR	DATE

TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION — HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 — EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT — South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

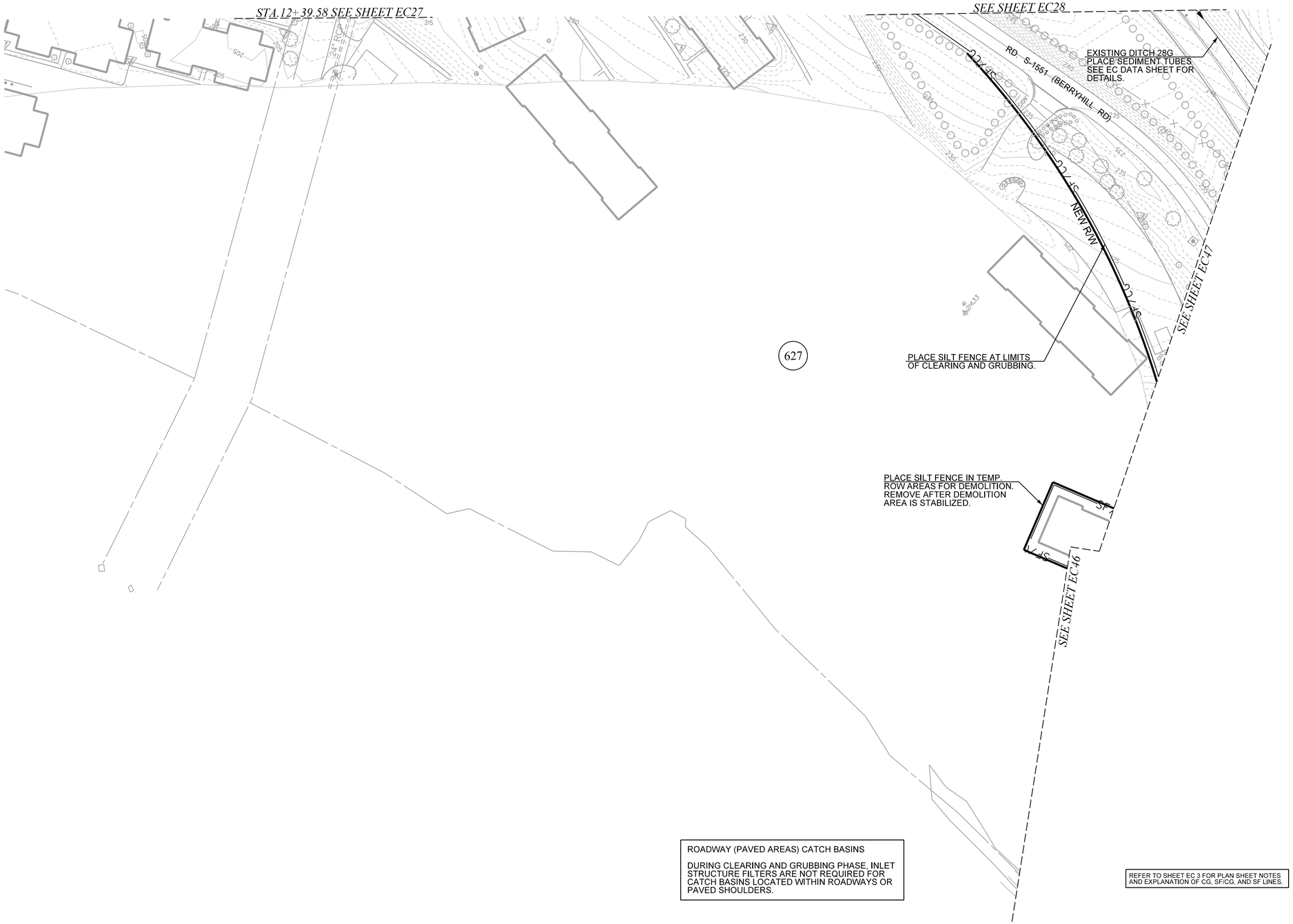
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC69



USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - - - -	NPDES LINE
— ◆ — ◆ —	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT

South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC70

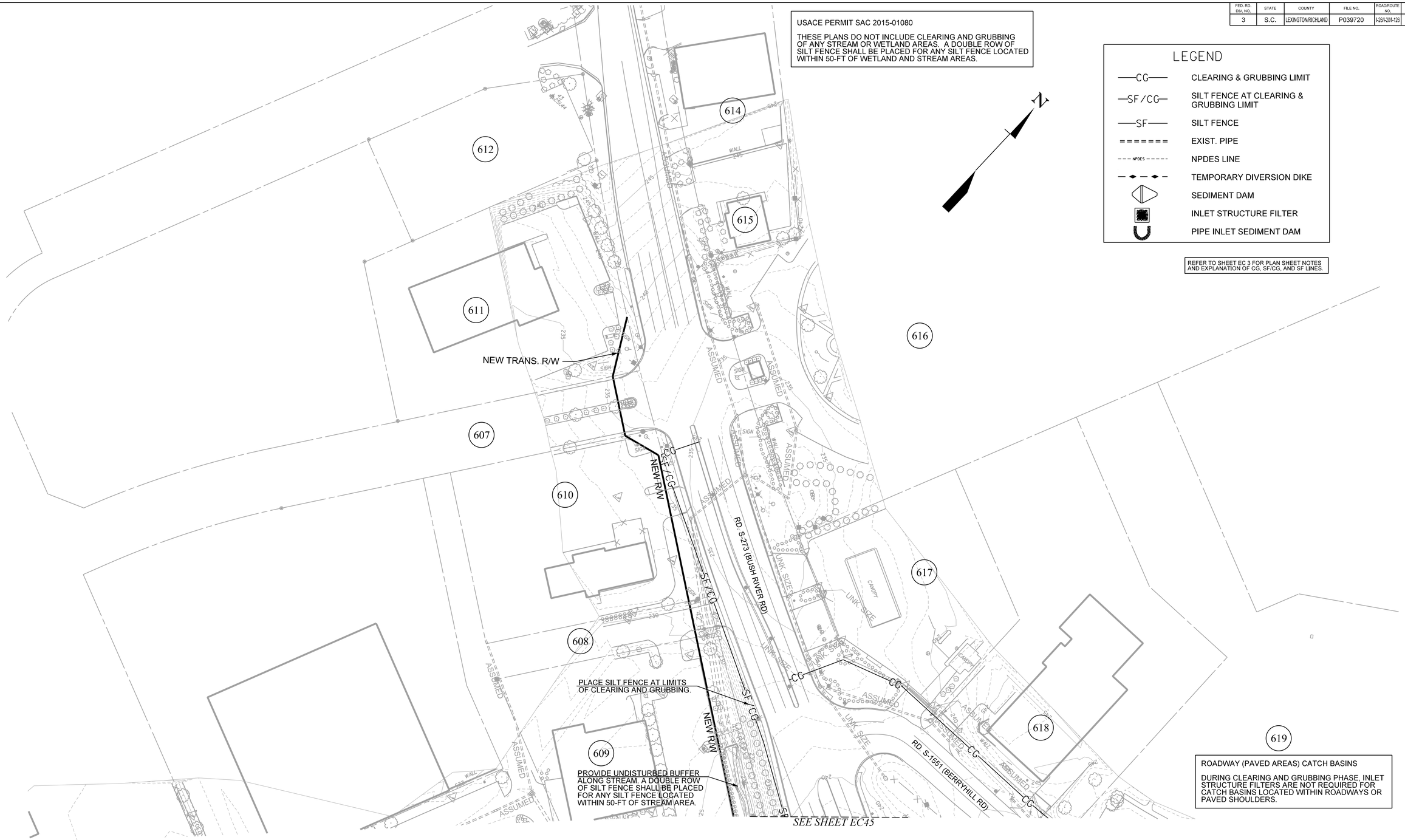
USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES ---	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 GARY J. OWENS, Jr.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC71

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

DITCH CHECK

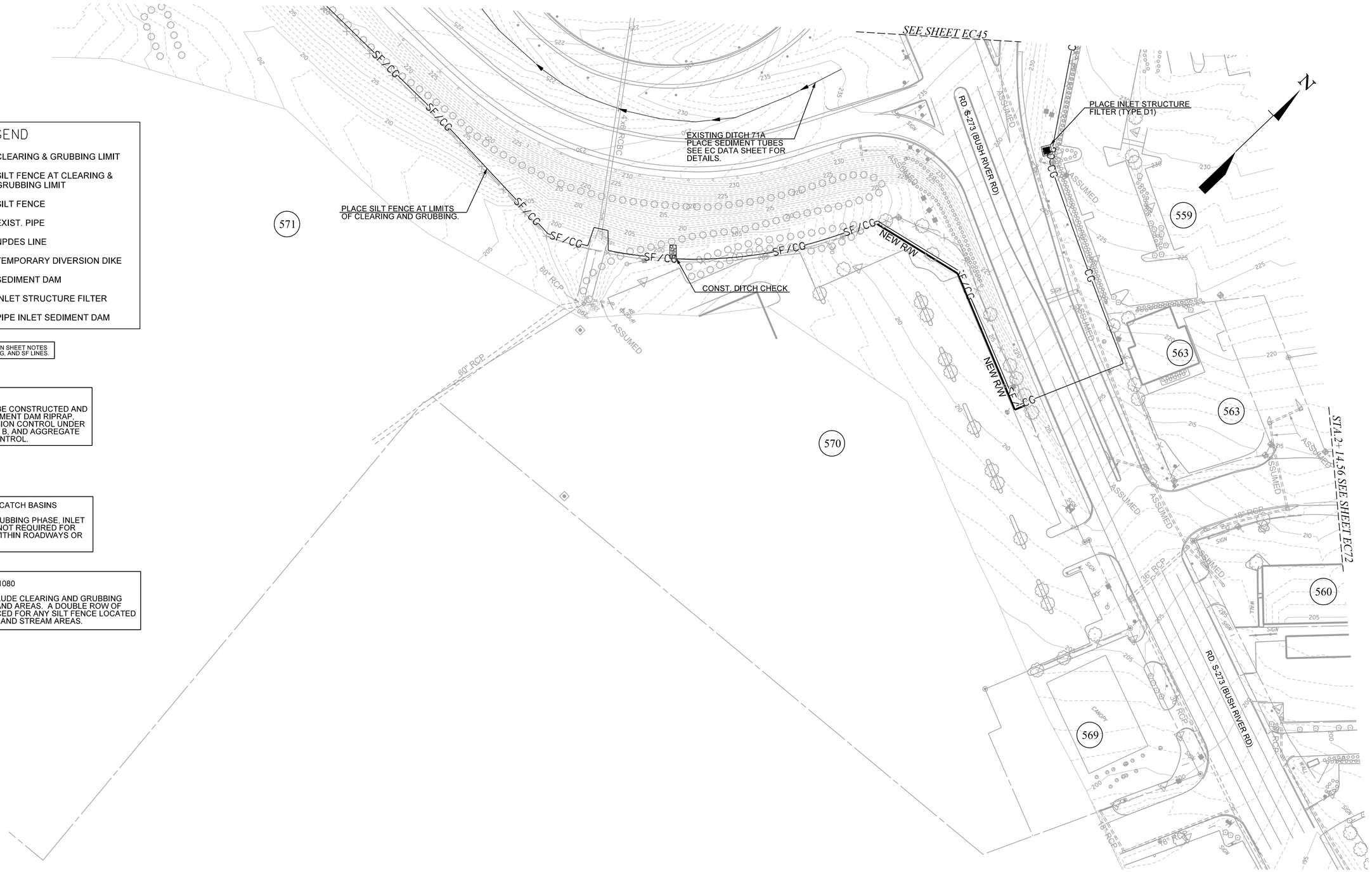
DITCH CHECKS SHALL BE CONSTRUCTED AND MAINTAINED WITH SEDIMENT DAM RIPRAP, GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP (CLASS 2) TYPE B, AND AGGREGATE NO. 5 FOR EROSION CONTROL.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.



TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION NO.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 LICENSED EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT

South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

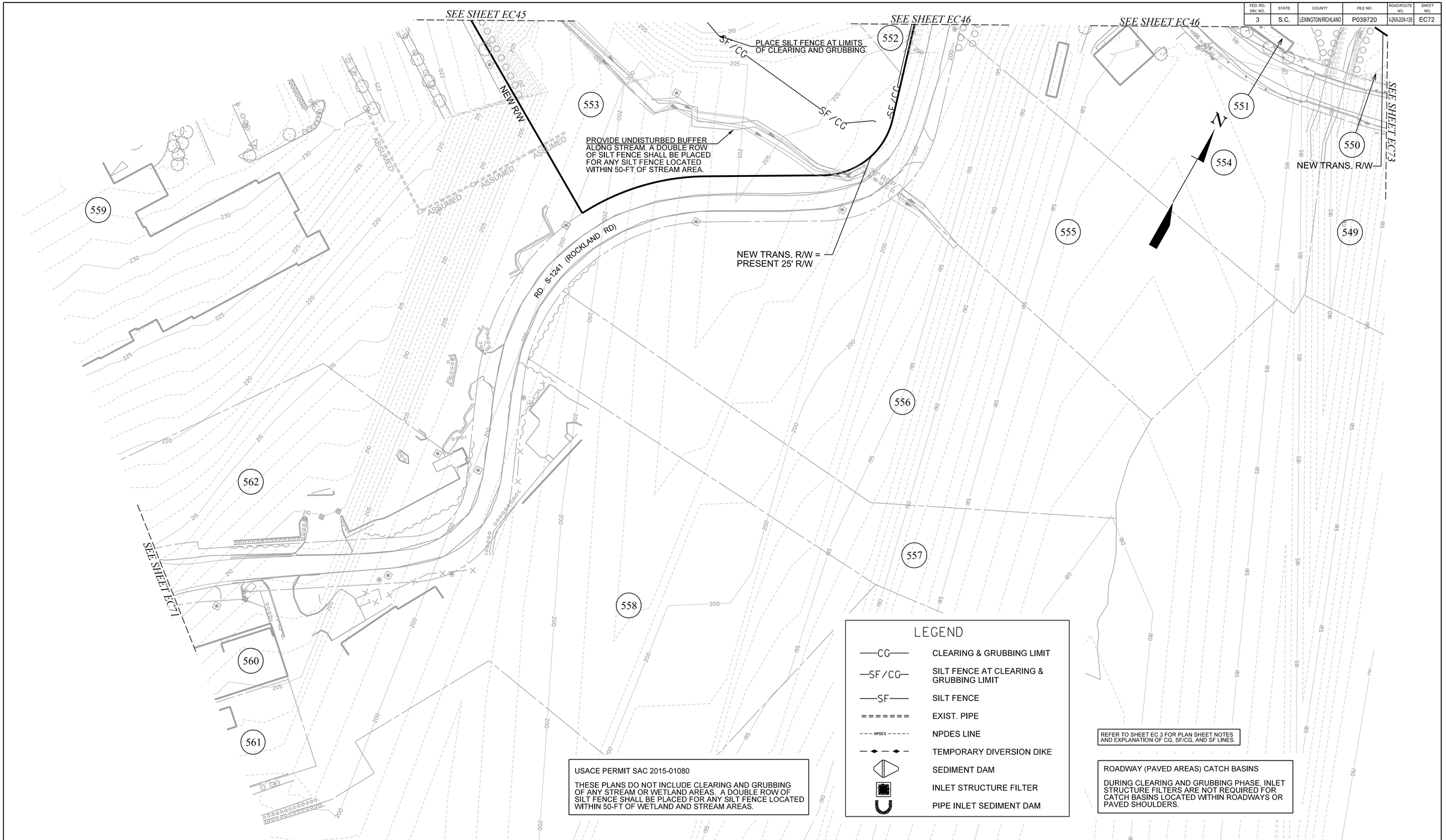
PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC72



LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES ---	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC73

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

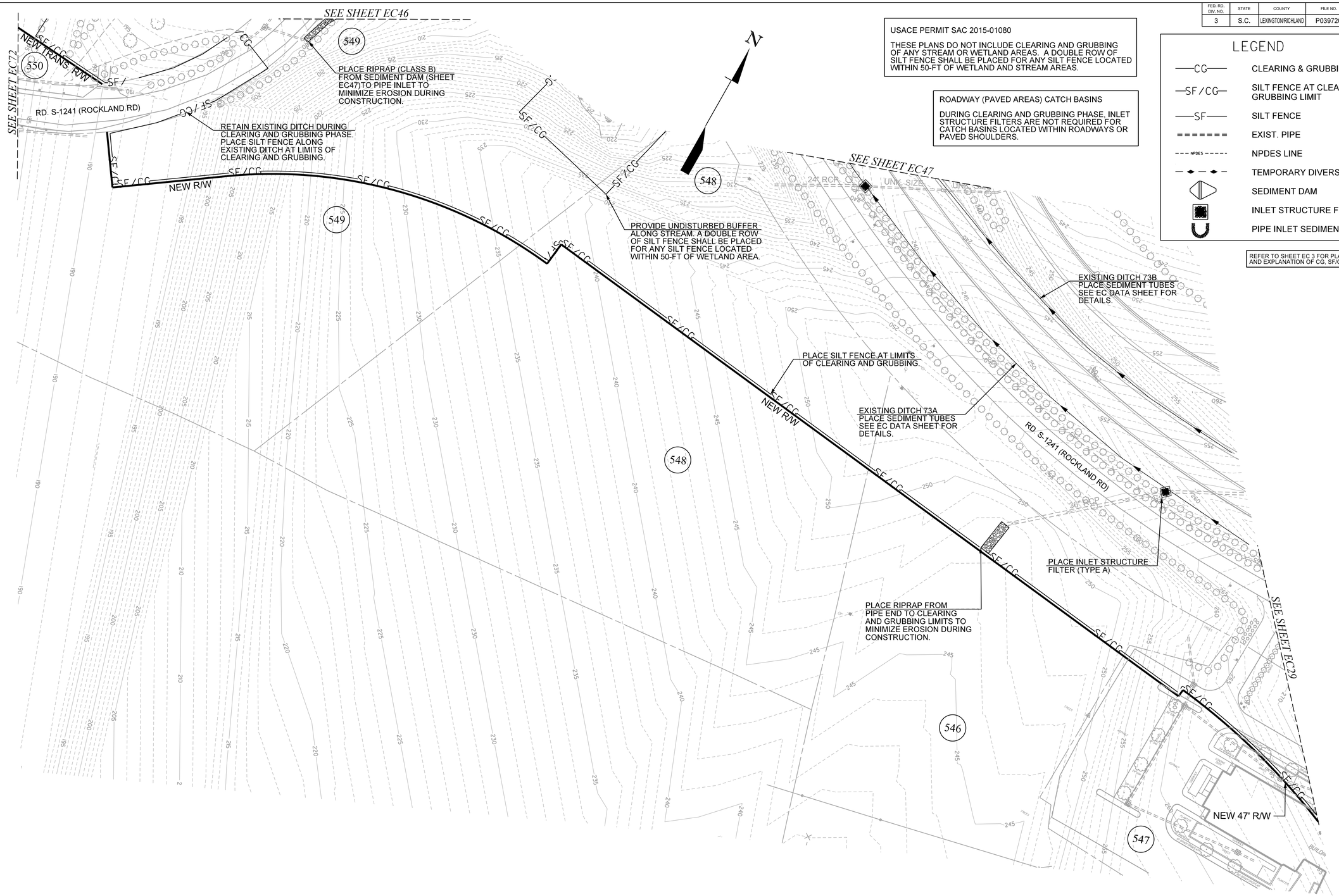
ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.



TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 EDWARD J. OWENS, JR.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

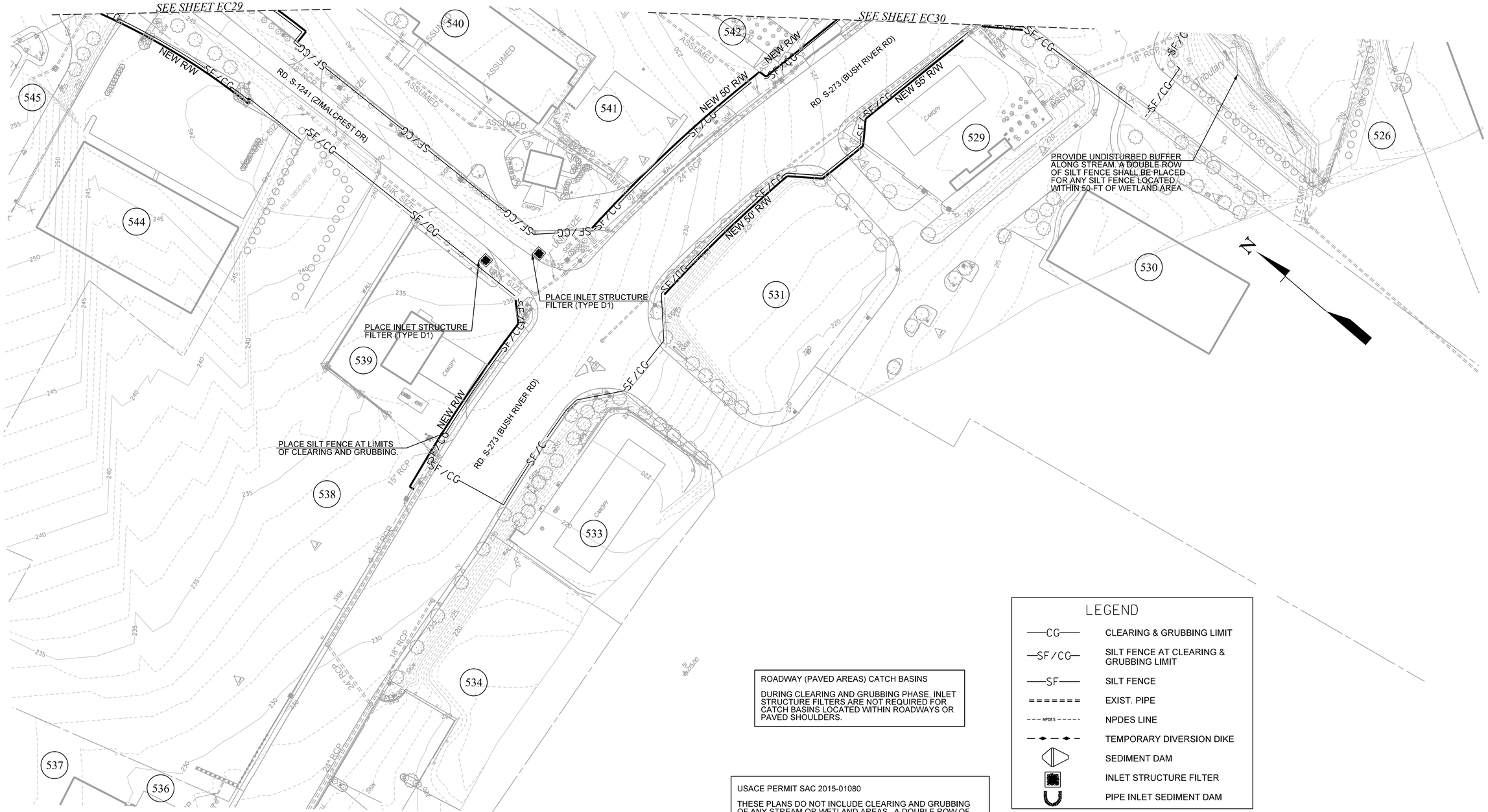
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC74



ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
--- NPDES -----	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 LICENSED EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC75

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

TRACT(S)	ISSUED FOR	DATE

TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
HDR ENGINEERING INC. OF THE CAROLINAS
No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER
No. 24246
EDWARD J. OWENS, Jr.
8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT
South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC79

REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA HDR ENGINEERING INC. OF THE CAROLINAS No. C0318 CERTIFICATE OF AUTHORIZATION NO.

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 24246 LICENSED EDWARD J. OWENS, JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

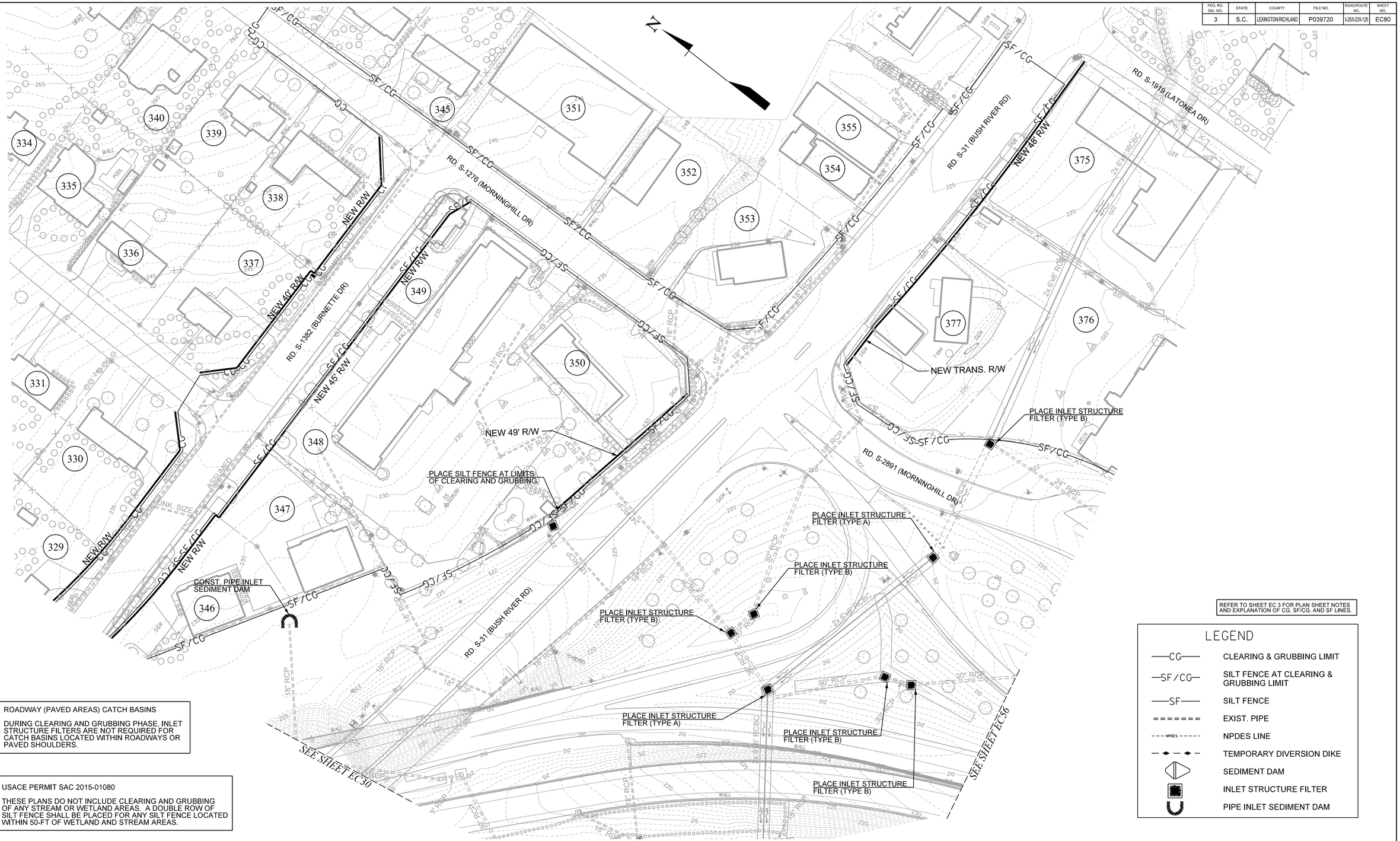
0 25 50 100

CAROLINA CROSSROADS

PHASE 3
EROSION CONTROL
CLEARING & GRUBBING PLANS

DocuSign Envelope ID: EAF55217-2D7E-48F9-8232-277B795A758D

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	LEXINGTON/RICHLAND	P039720	I-26/I-20/I-126	EC80



REFER TO SHEET EC 3 FOR PLAN SHEET NOTES AND EXPLANATION OF CG, SF/CG, AND SF LINES.

LEGEND

—CG—	CLEARING & GRUBBING LIMIT
—SF/CG—	SILT FENCE AT CLEARING & GRUBBING LIMIT
—SF—	SILT FENCE
=======	EXIST. PIPE
- - - NPDES - - -	NPDES LINE
—◆—◆—	TEMPORARY DIVERSION DIKE
	SEDIMENT DAM
	INLET STRUCTURE FILTER
	PIPE INLET SEDIMENT DAM

ROADWAY (PAVED AREAS) CATCH BASINS

DURING CLEARING AND GRUBBING PHASE, INLET STRUCTURE FILTERS ARE NOT REQUIRED FOR CATCH BASINS LOCATED WITHIN ROADWAYS OR PAVED SHOULDERS.

USACE PERMIT SAC 2015-01080

THESE PLANS DO NOT INCLUDE CLEARING AND GRUBBING OF ANY STREAM OR WETLAND AREAS. A DOUBLE ROW OF SILT FENCE SHALL BE PLACED FOR ANY SILT FENCE LOCATED WITHIN 50-FT OF WETLAND AND STREAM AREAS.

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION HDR ENGINEERING INC. OF THE CAROLINAS No. C0318

SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER No. 24246 GARD J. OWENS JR.

8/10/2023

PLANS PREPARED BY

HDR

PLANS PREPARED FOR

SCDOT South Carolina Department of Transportation

0 25 50 100

CAROLINA CROSSROADS

PHASE 3

EROSION CONTROL

CLEARING & GRUBBING PLANS