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RIVERGATE IV ROADWAY PLANS

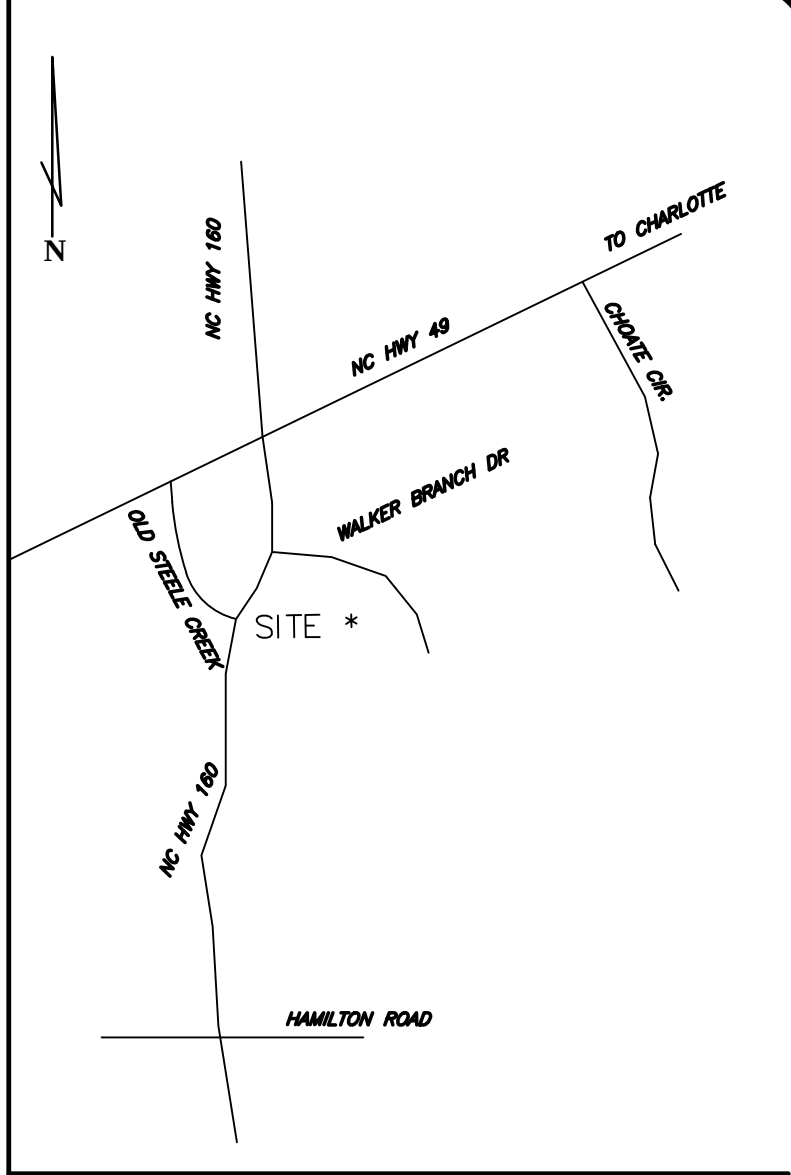
IMPROVEMENTS TO HWY 150-STEEL CREEK ROAD

RIGHT TURN LANE HWY 49 TO OLD STEELE CREEK ROAD

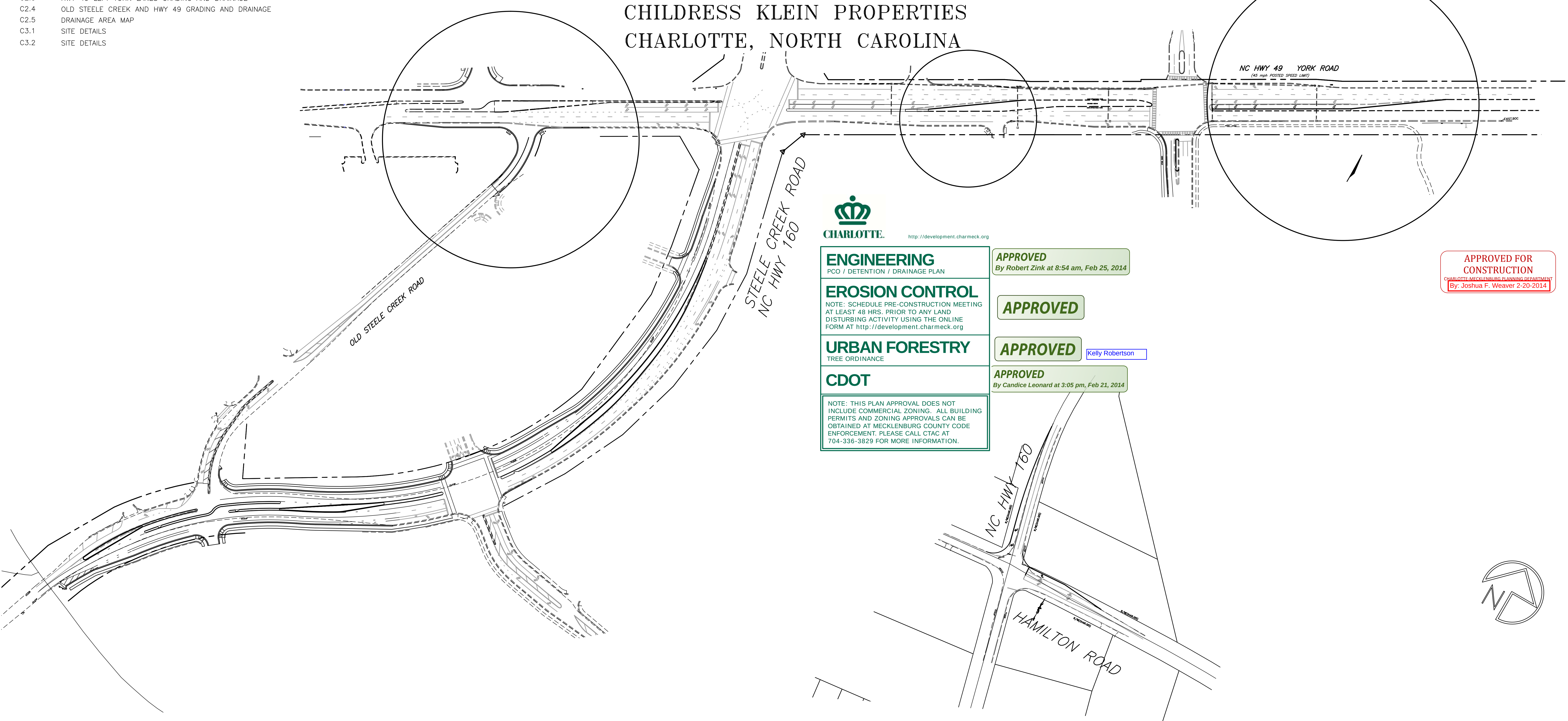
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IMPROVEMENTS TO OLD STEELE CREEK ROAD

LEFT TURN LANE MODIFICATIONS HWY 49



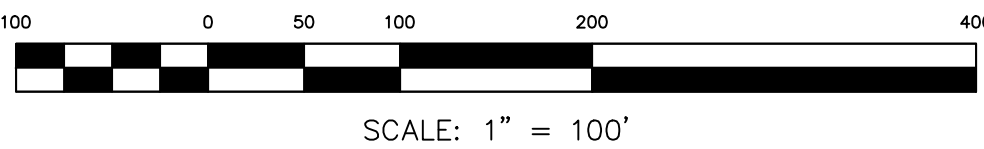
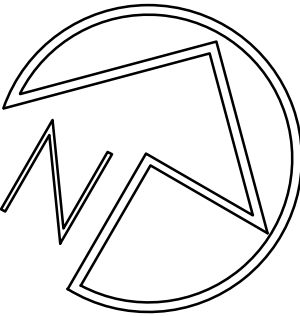
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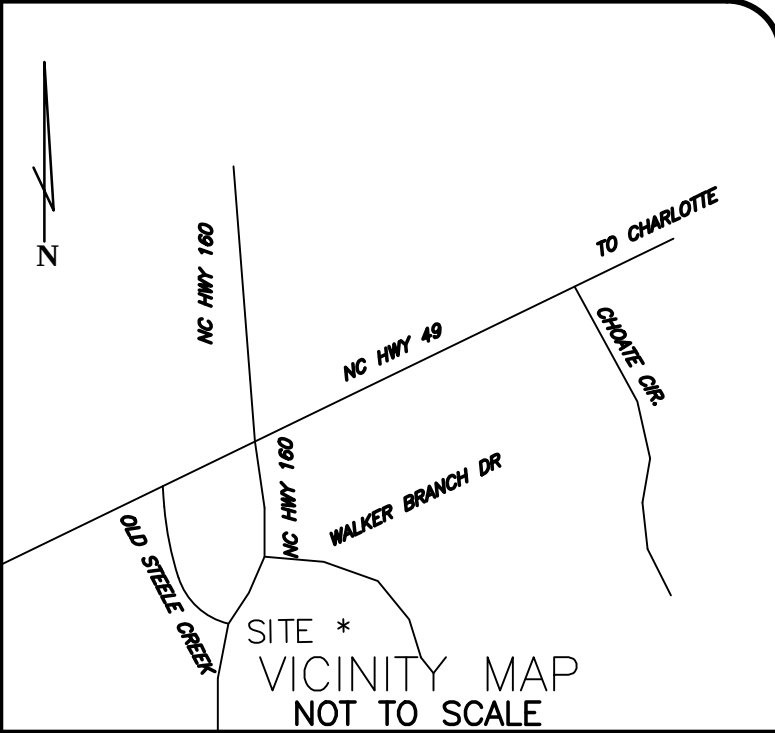


ENGINEERING PCO / DETENTION / DRAINAGE PLAN
EROSION CONTROL NOTE: SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 48 HRS. PRIOR TO ANY LAND DISTURBING ACTIVITY USING THE ONLINE FORM AT http://development.charmeck.org
URBAN FORESTRY TREE ORDINANCE
CDOT NOTE: THIS PLAN APPROVAL DOES NOT INCLUDE COMMERCIAL ZONING. ALL BUILDING PERMITS AND ZONING APPROVALS CAN BE OBTAINED AT MECKLENBURG COUNTY CODE ENFORCEMENT. PLEASE CALL CTAC AT 704-336-3829 FOR MORE INFORMATION.

APPROVED By Robert Zink at 8:54 am, Feb 25, 2014
APPROVED
APPROVED Kelly Robertson
APPROVED By Candice Leonard at 3:05 pm, Feb 21, 2014

APPROVED FOR
CONSTRUCTION
CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT
By: Joshua F. Weaver 2-20-2014





PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGN BY	PROJECT DATE	1	3/27/13
APPROVED BY	PROJECT NAME		
	PHASE		
FILE NAME	TACK		
	POST DATE		

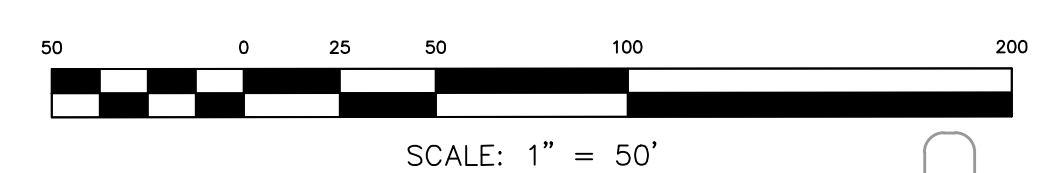
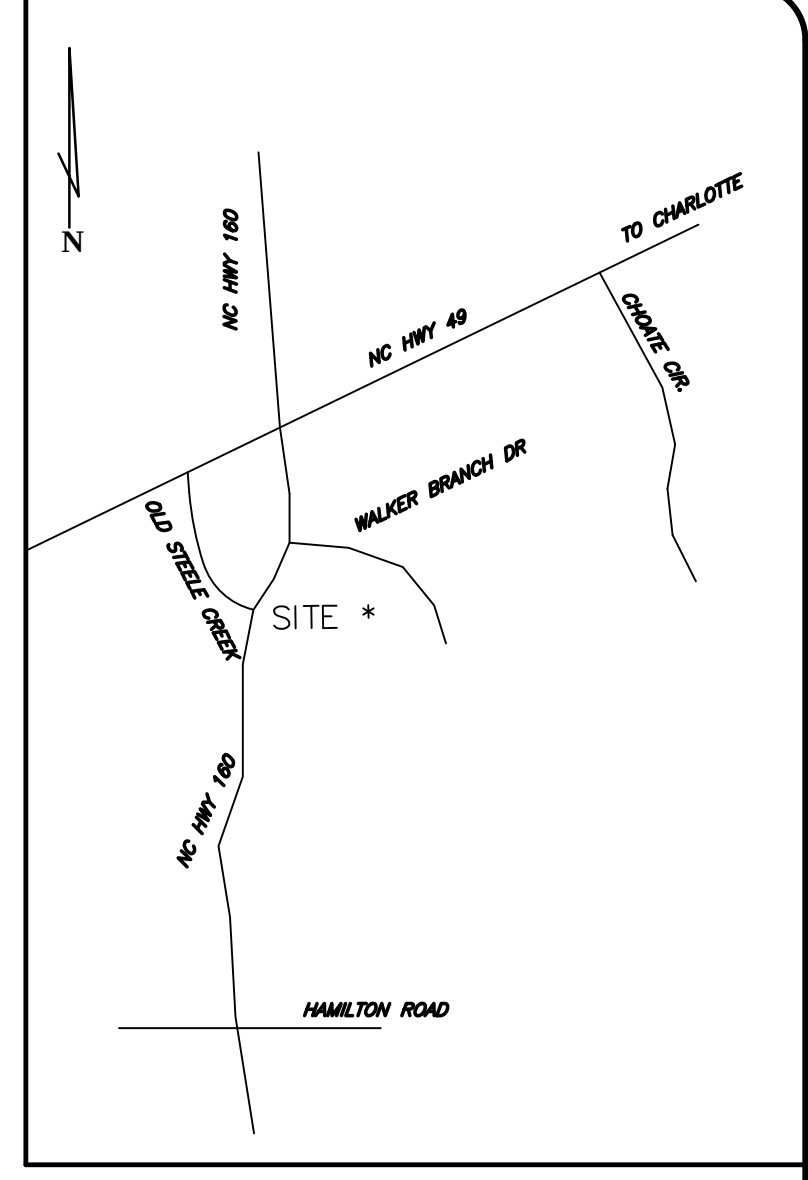
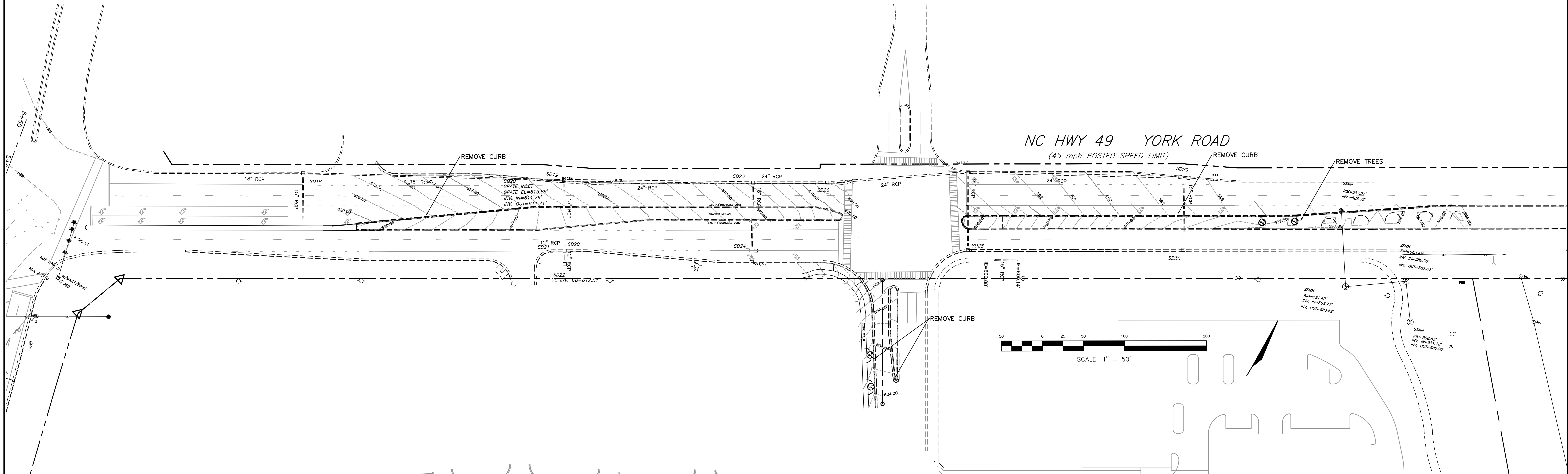
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500-K Clanton Road
Charlotte, NC 28217
Phone: 704.525.2003
Fax: 704.525.2051
www.geosciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILL DRESS KLEIN PROPERTIES



STEELE CREEK ROAD
DEMOLITION PLAN

CO.1



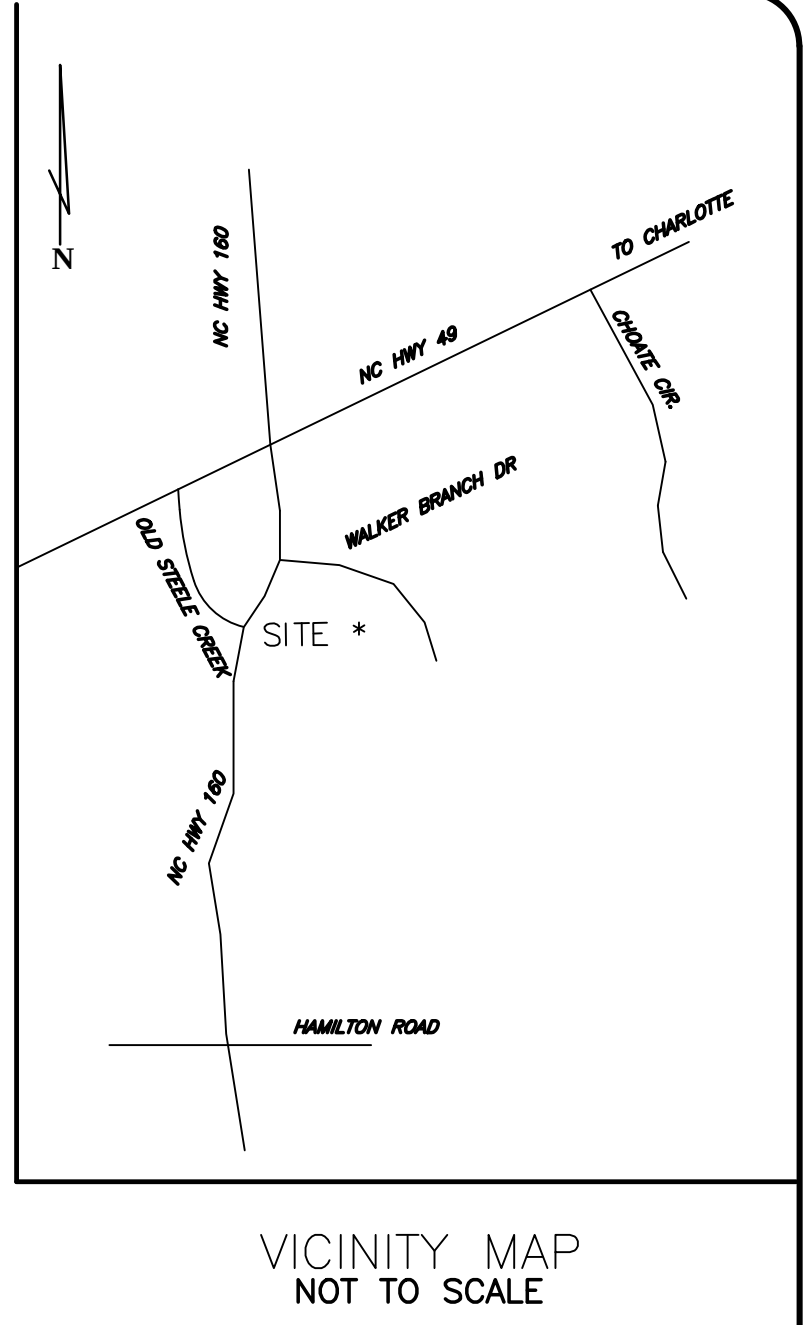
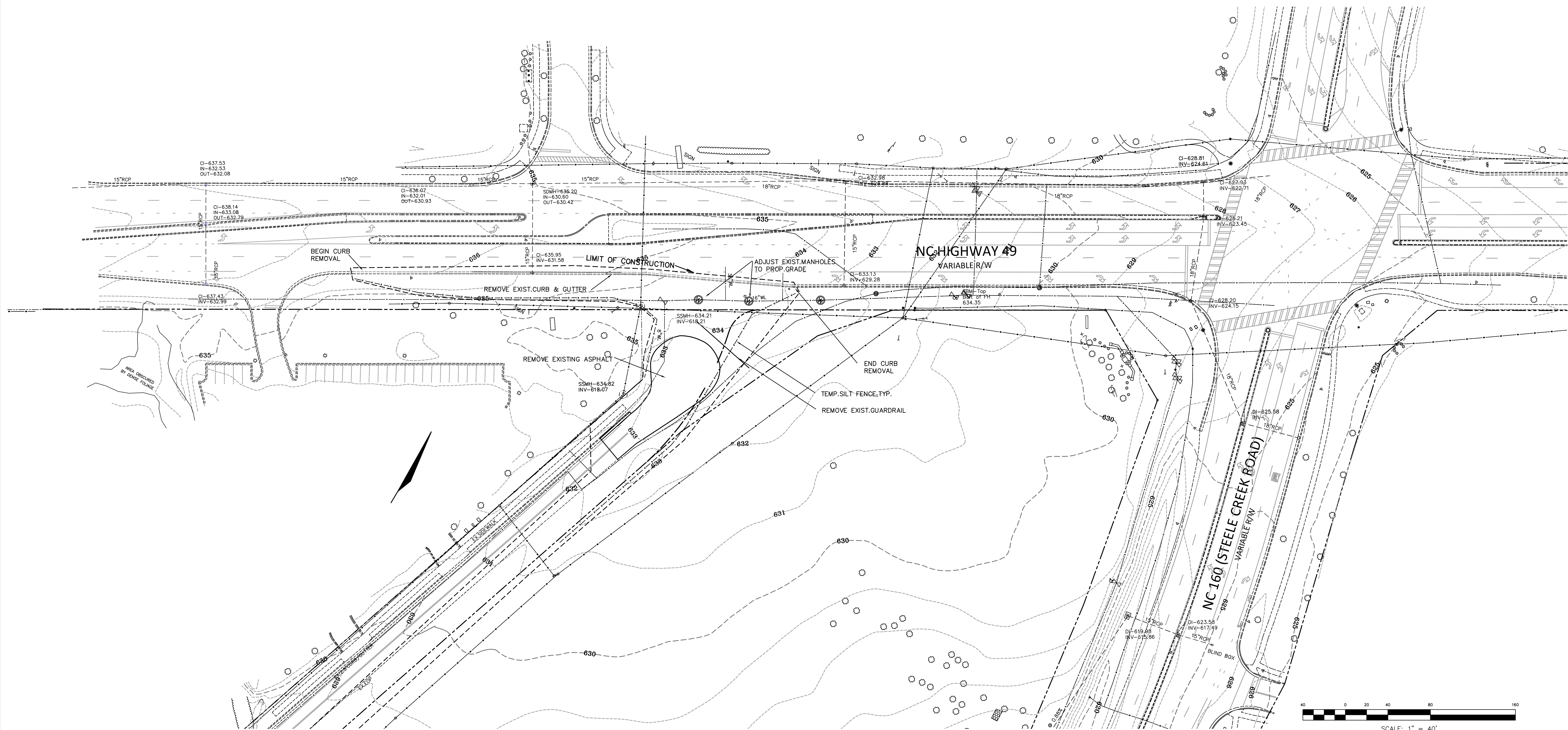
CESSSCIENCE GROUP
10000 W. Highway 100
Charlotte, NC 28227
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www.cesssciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



DEMOLITION PLAN

C0.2



PROJECT MANAGER	DATE
DESIGNED BY	11/27/17
CHECKED BY	
APPROVED BY	
DATE	
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PROJECT NUMBER	
PROJECT SCALE	
PROJECT DATE	
PROJECT TIME	
PROJECT COST	

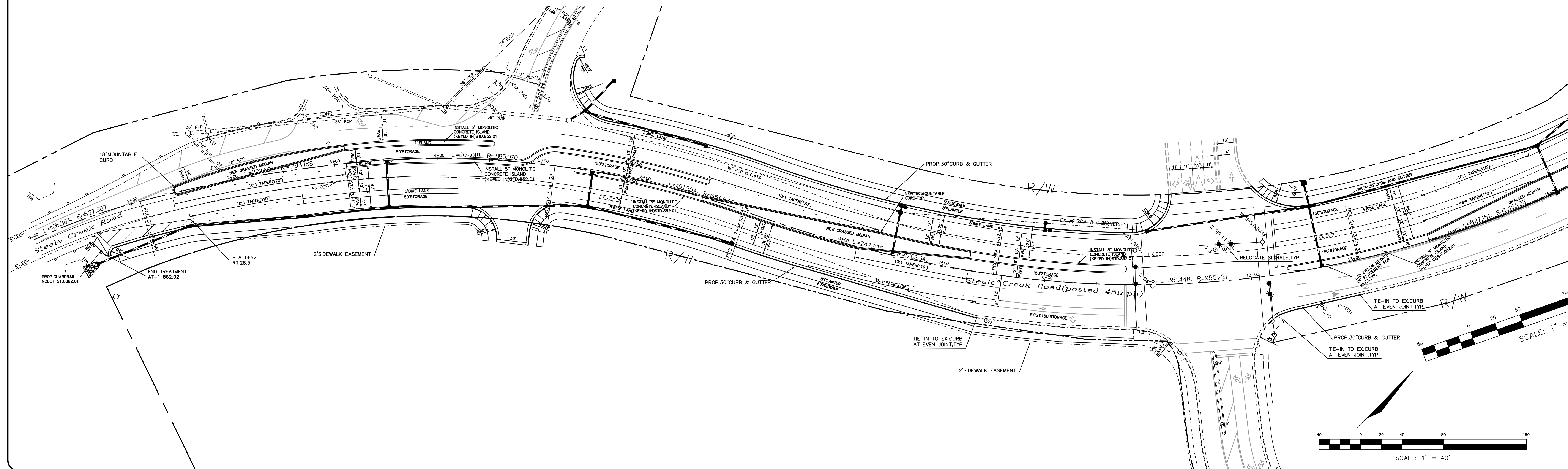
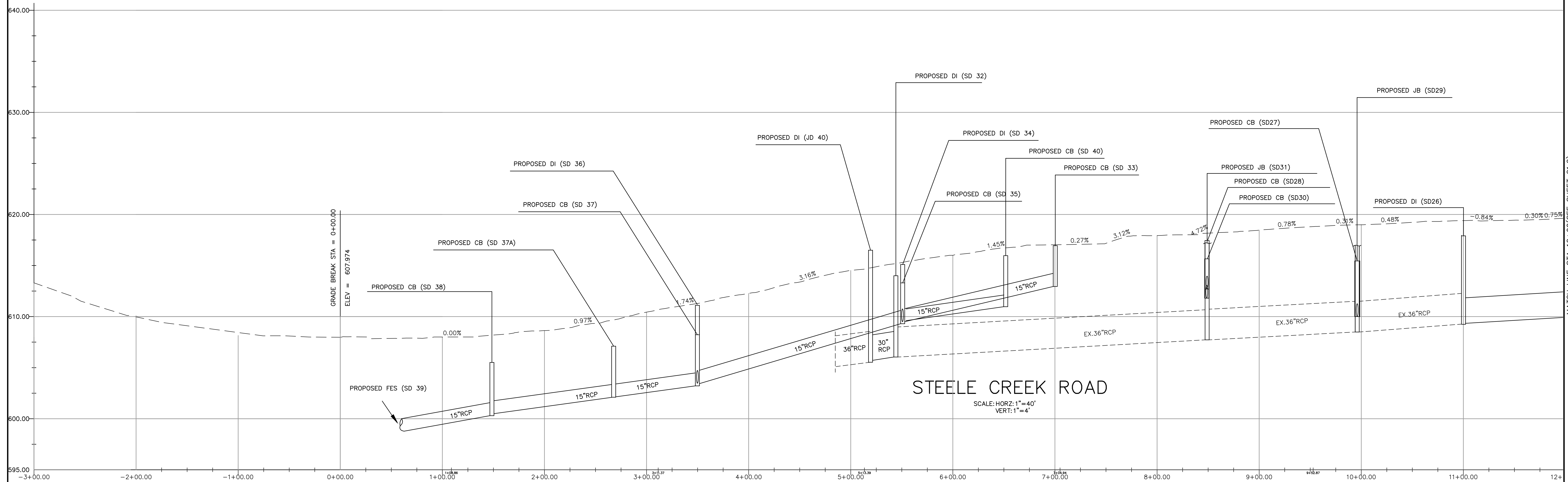
GEOSCIENCE GROUP
 10000 North Carolina Highway 100
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 Fax: 704.532.2851
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RIVERGATE IV ROADWAY PLANS
 CHARLOTTE, NORTH CAROLINA
 CHILDRESS KLEIN PROPERTIES



DEMOLITION PLAN

C0.3



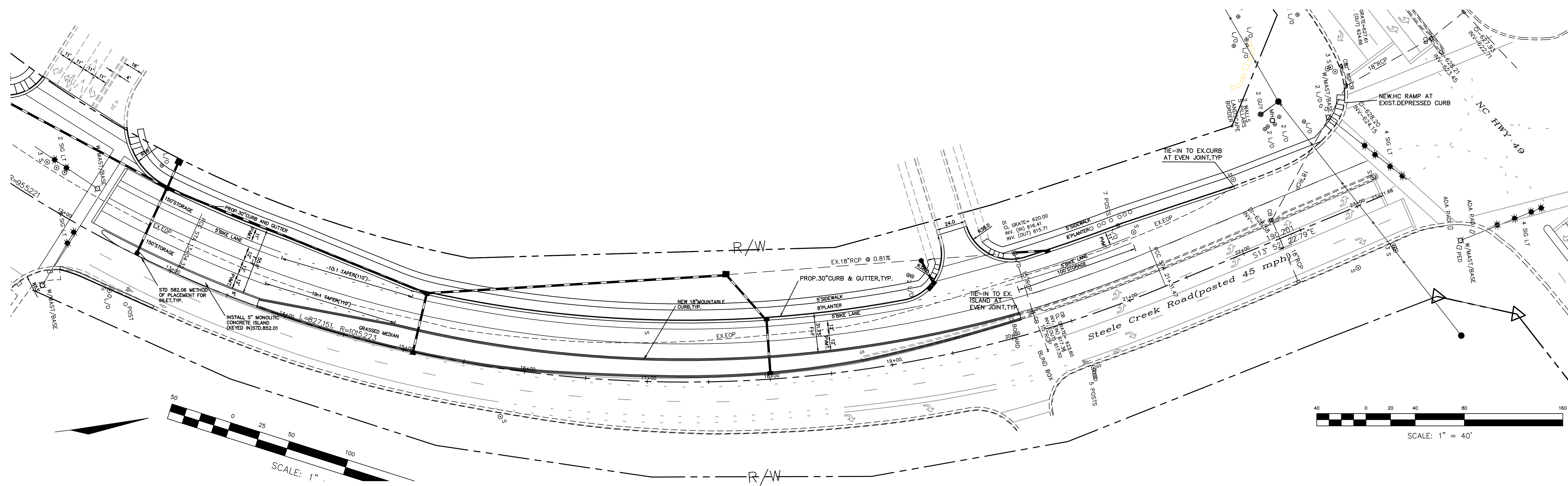
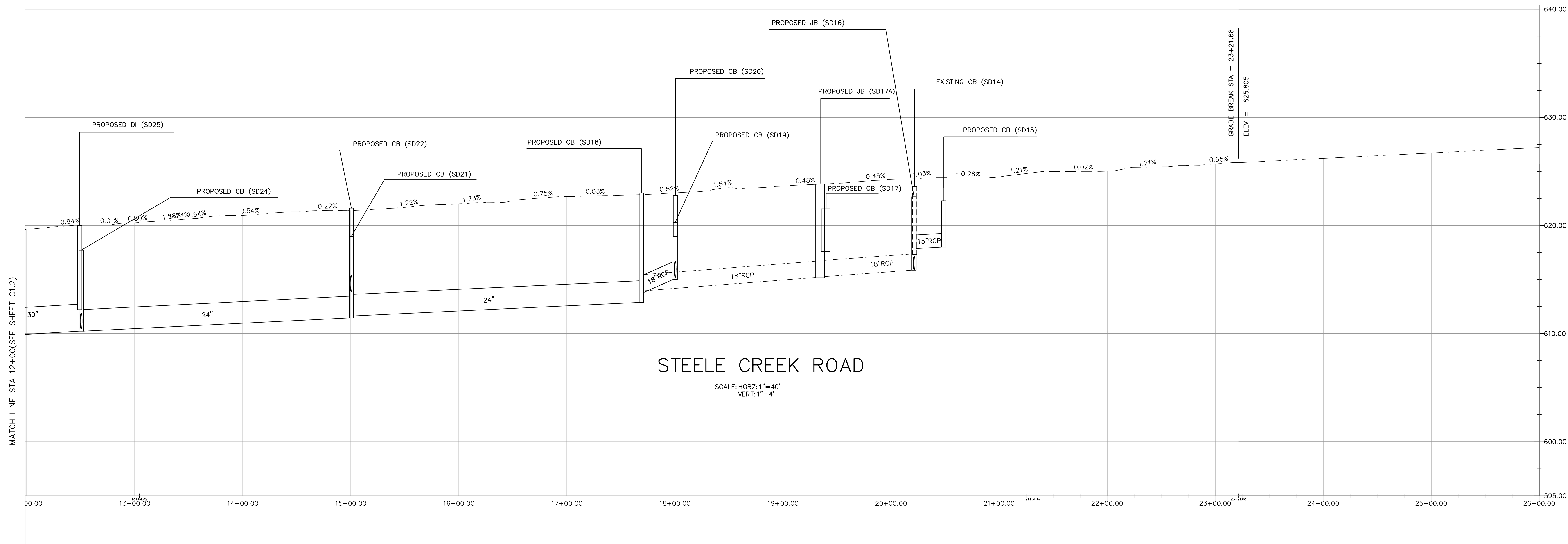
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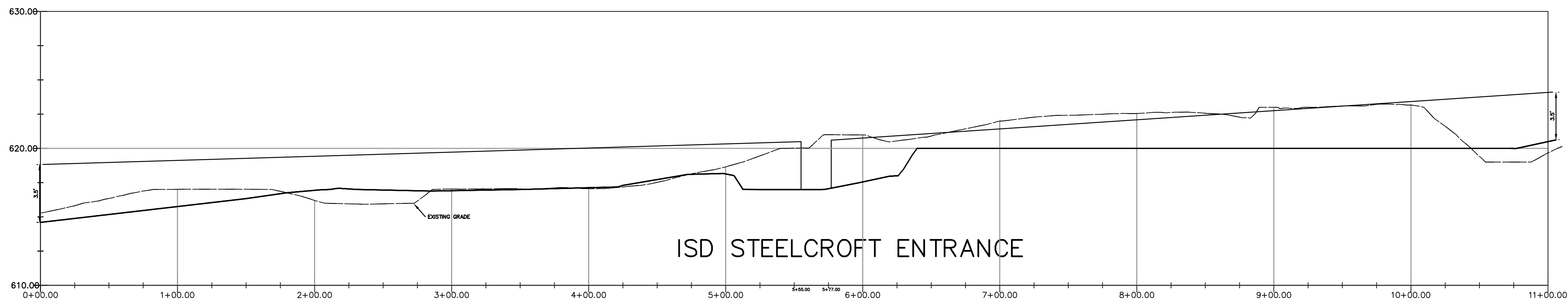
RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



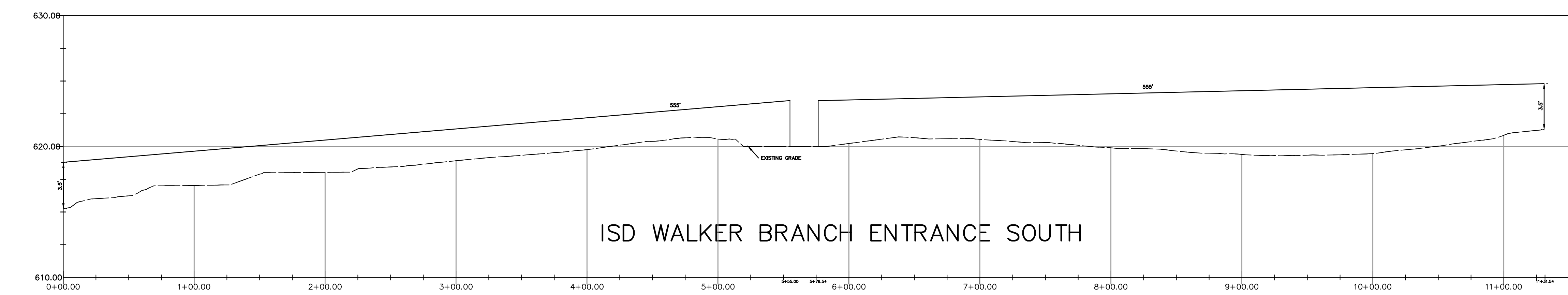
STEELE CREEK ROAD
PLAN & PROFILE

C1.1

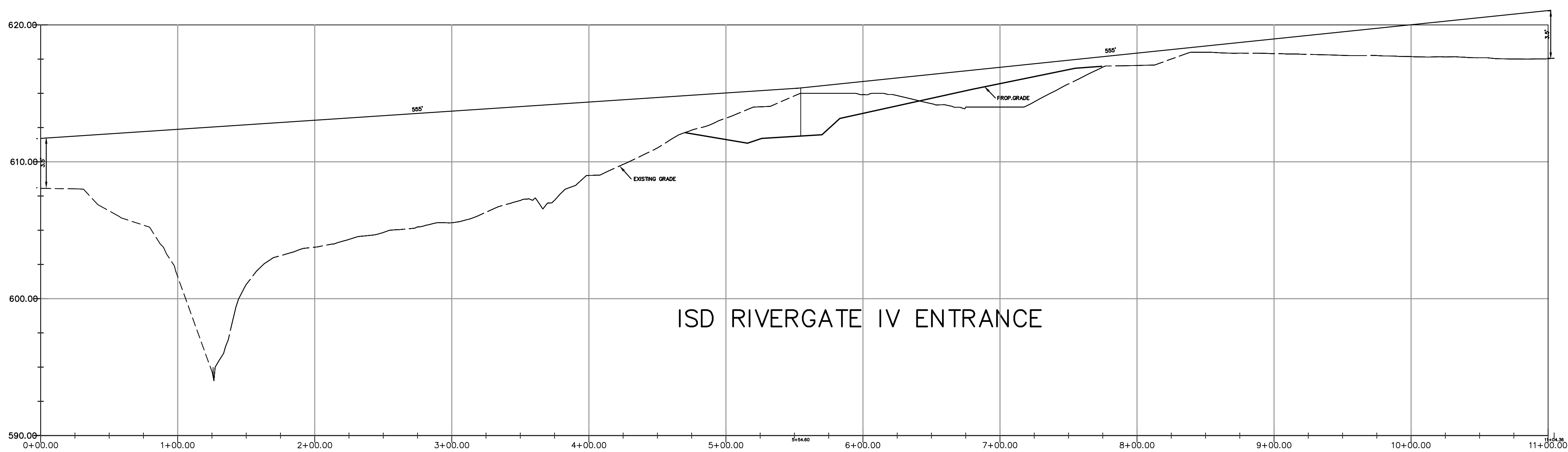




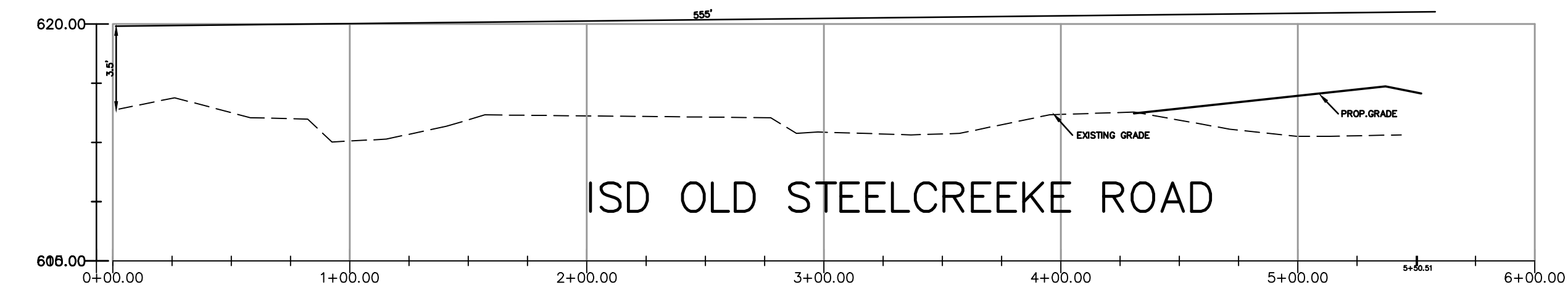
ISD STEELCROFT ENTRANCE



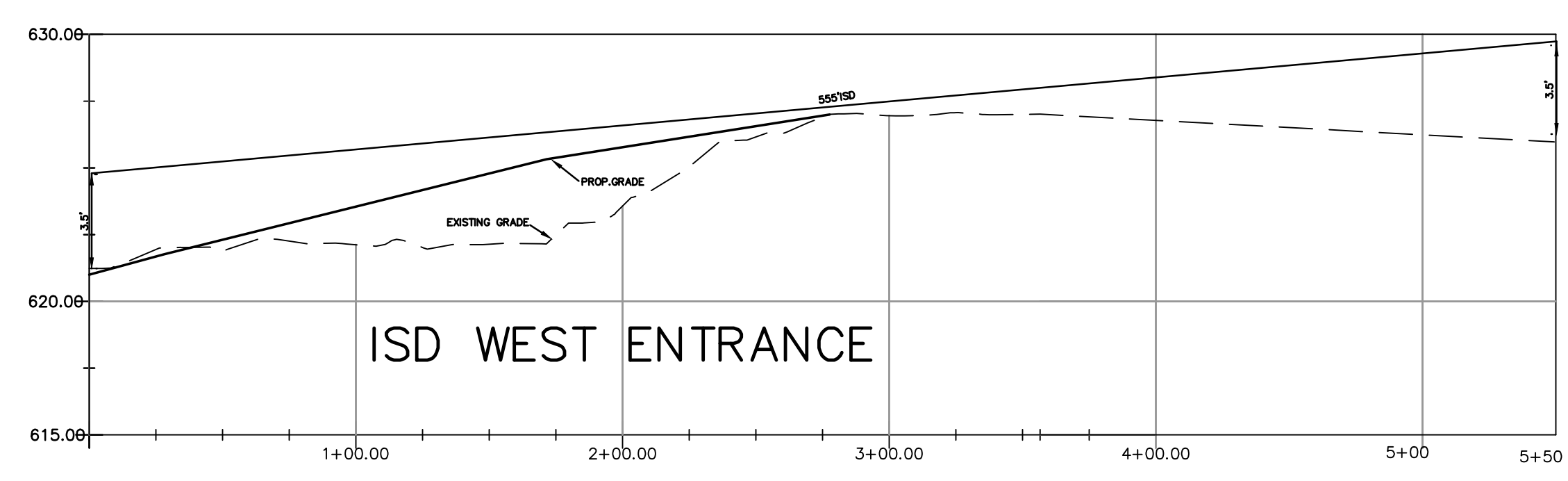
ISD WALKER BRANCH ENTRANCE SOUTH



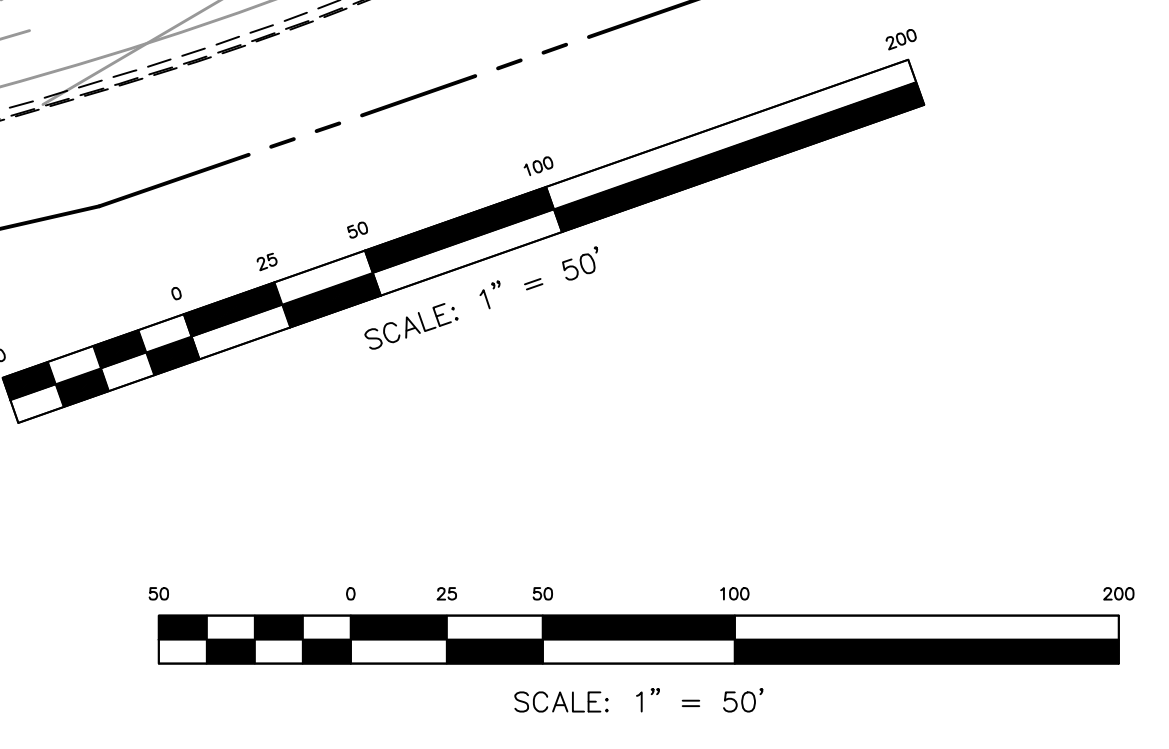
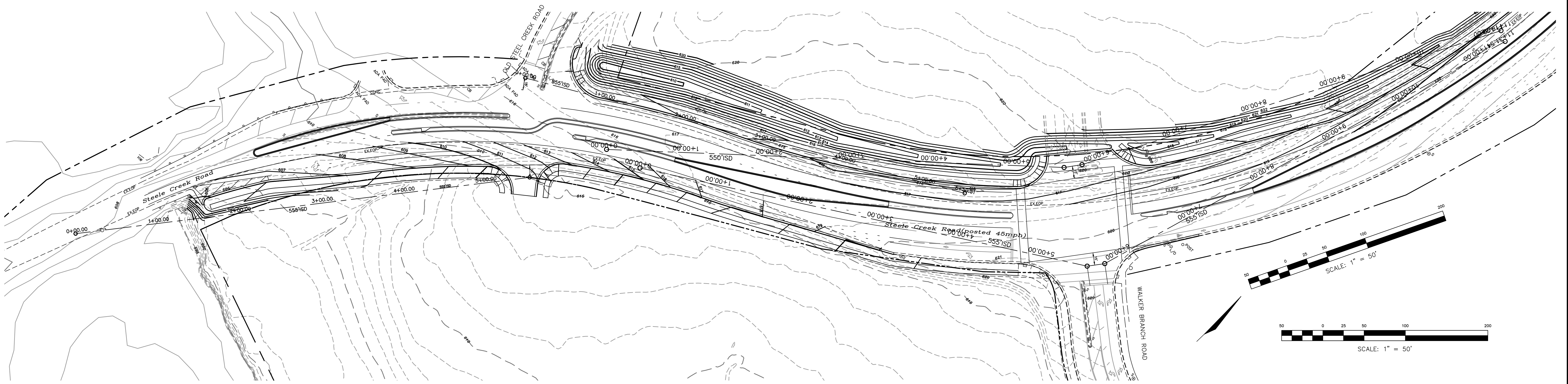
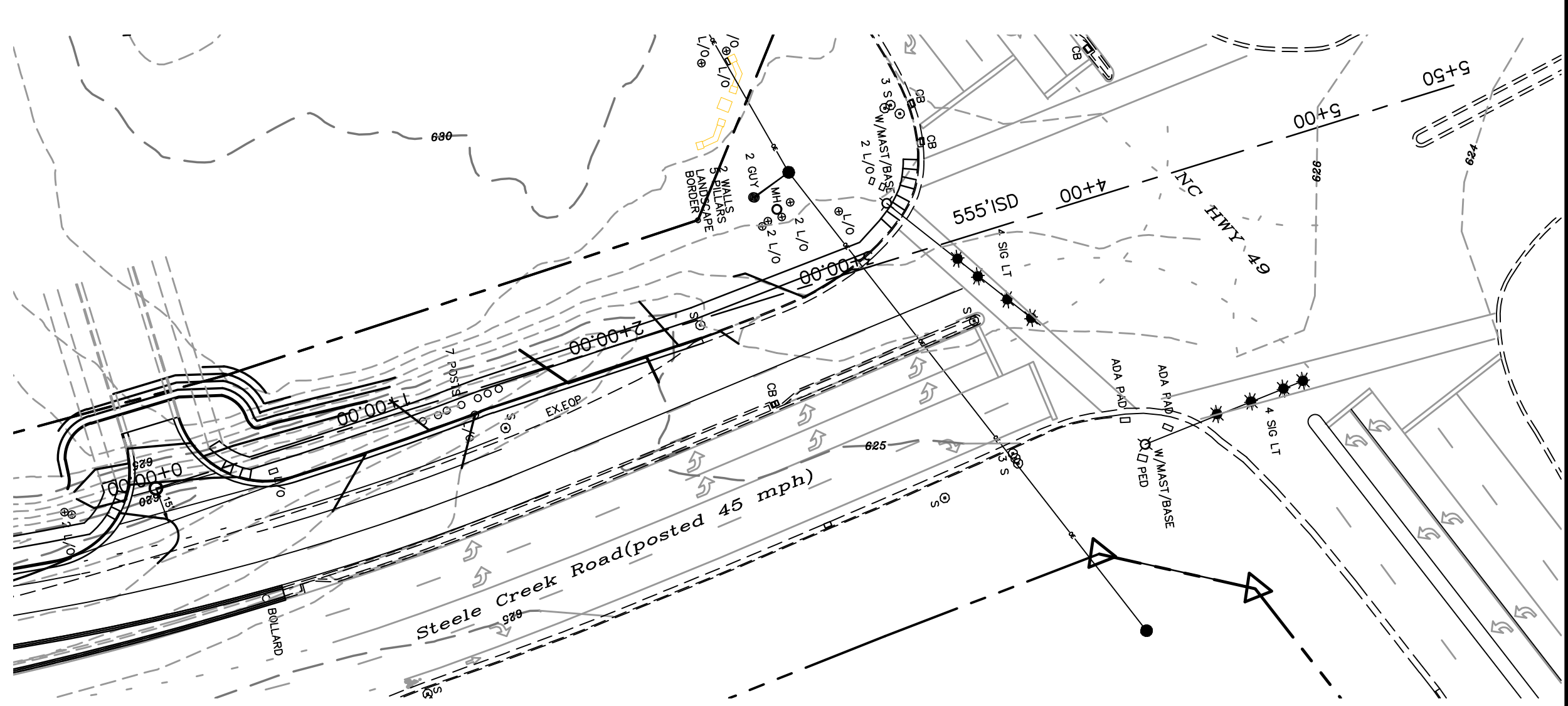
ISD RIVERGATE IV ENTRANCE



ISD OLD STEELCREEKE ROAD



ISD WEST ENTRANCE



DATE	11/21/17
REV	1
PROJECT NAME	ISD STEELCROFT & WALKER BRANCH
PROJECT NUMBER	
PROJECT TYPE	
PROJECT LOCATION	
PROJECT OWNER	
PROJECT ENGINEER	
PROJECT DATE	

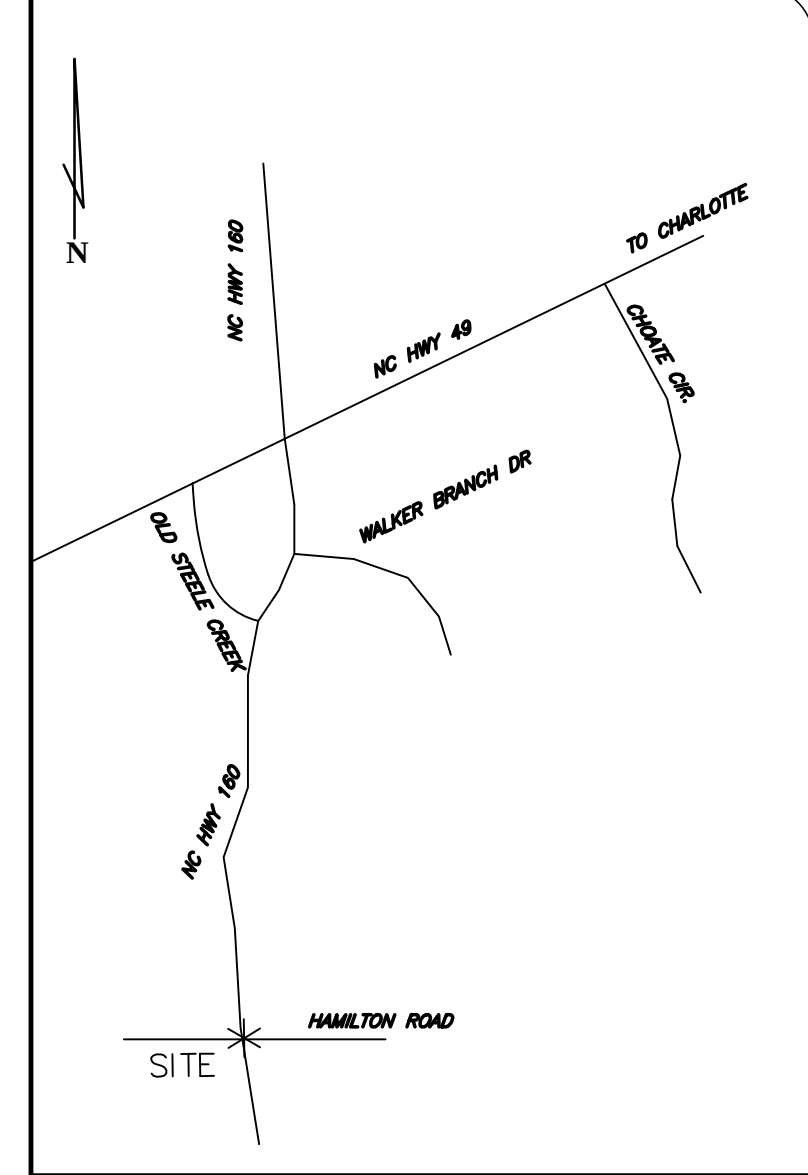
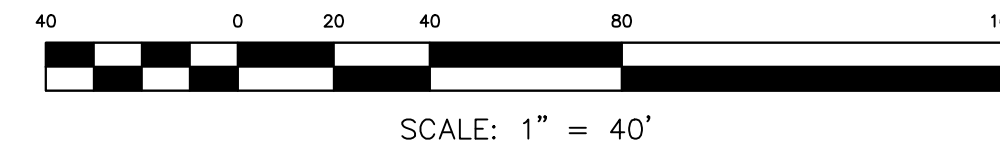
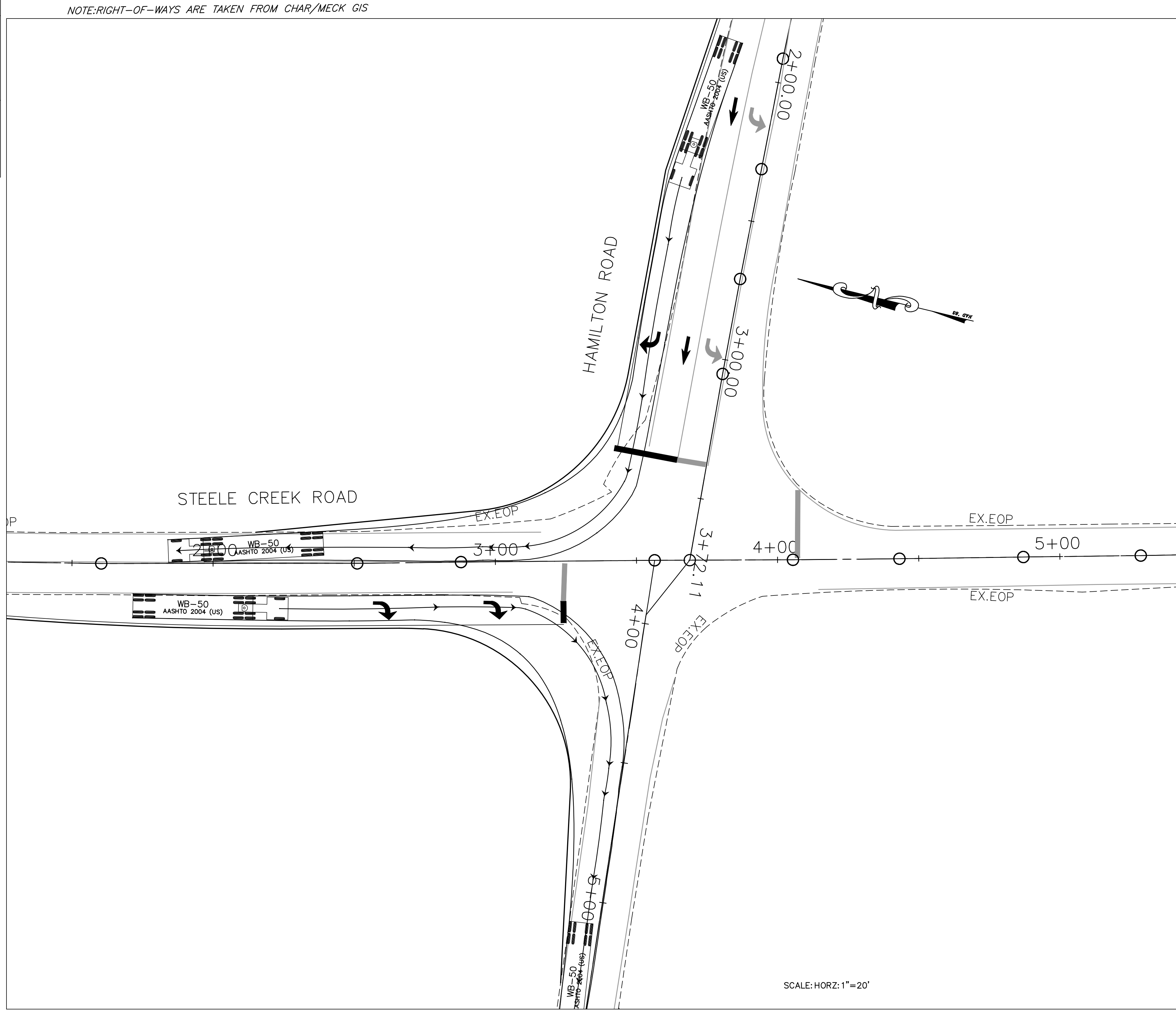
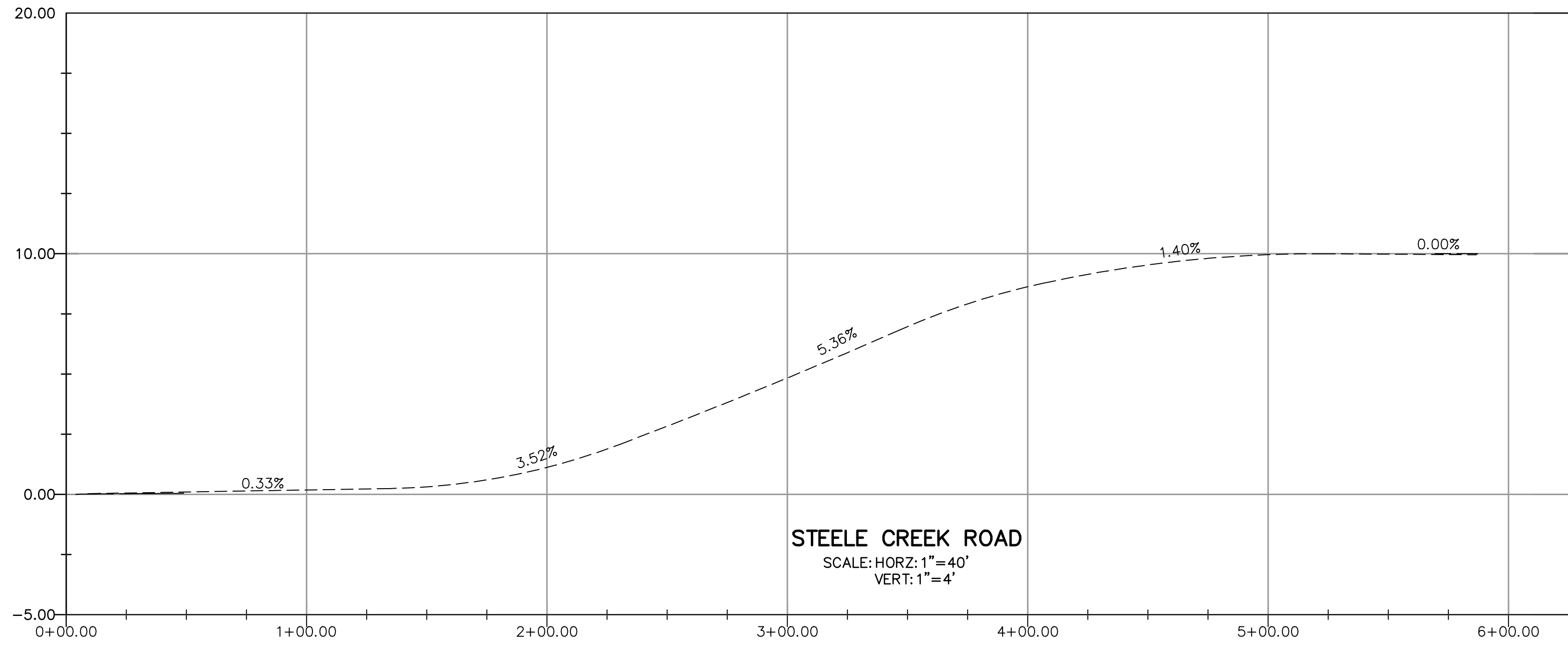
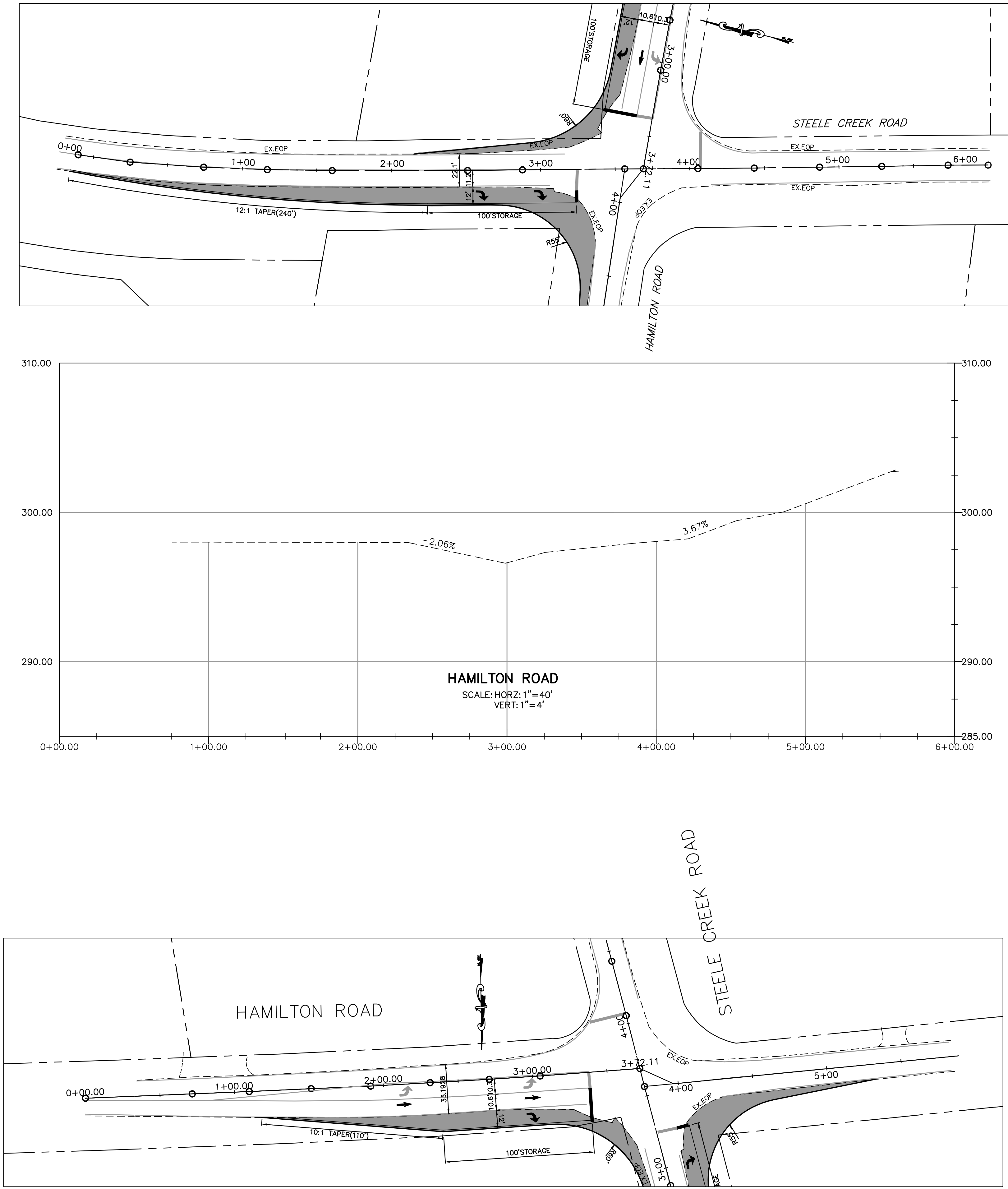
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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



ISD PROFILES

C1.3



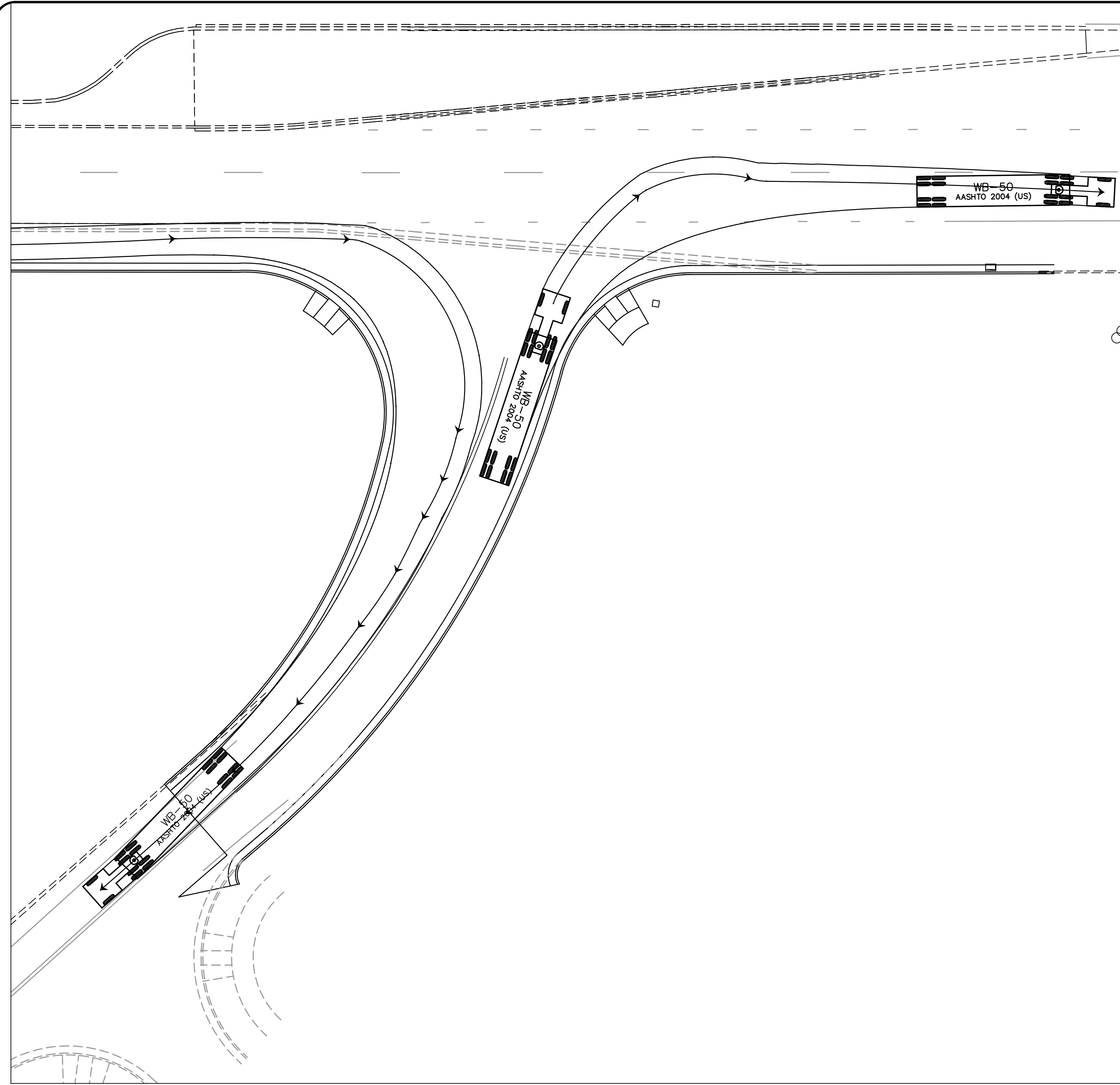
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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

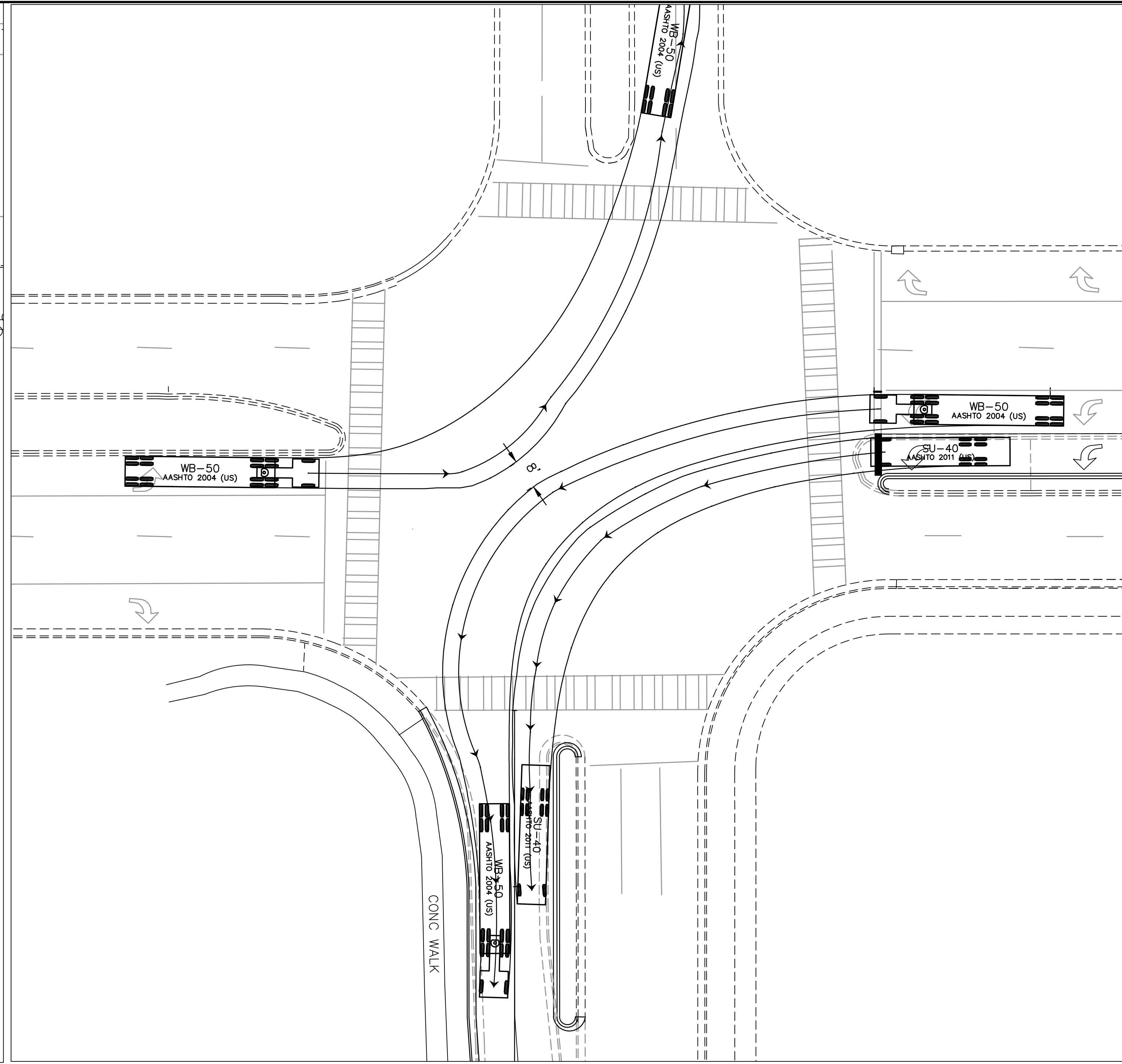


HAMILTON RD.-STEELE CREEK RD
PLAN AND PROFILES

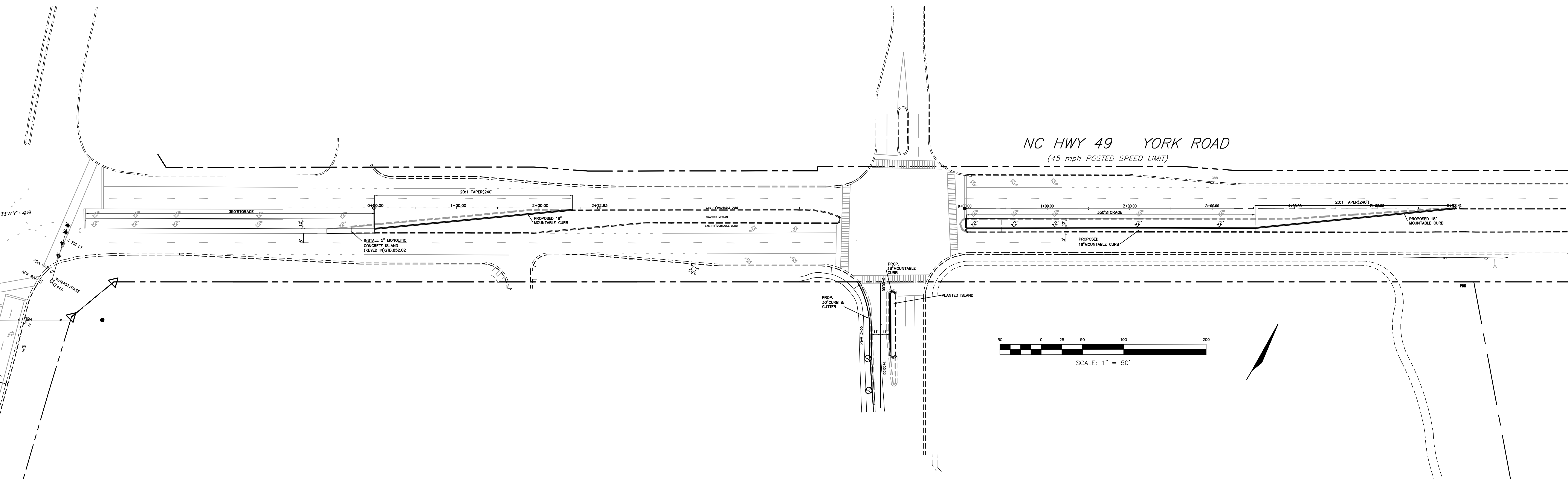
C1.4



SCALE: 1" = 20'

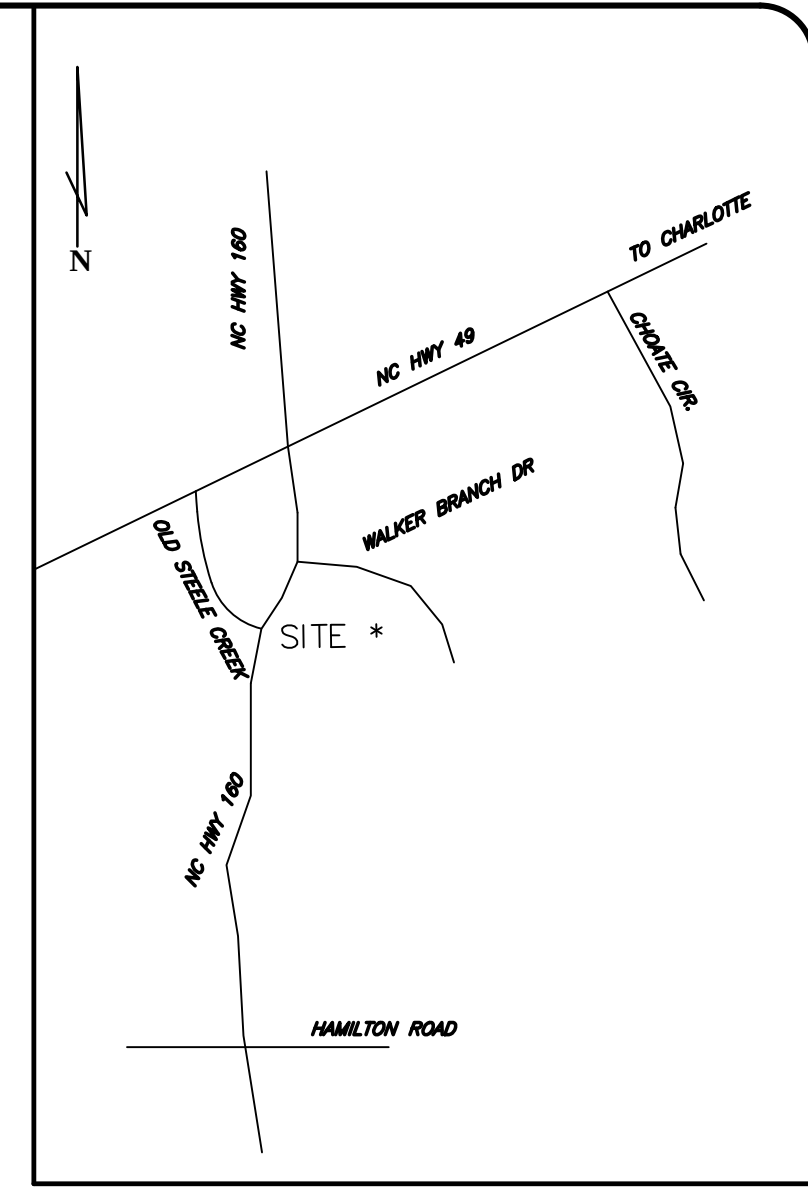


SCALE: 1" = 20'



NC HWY 49 YORK ROAD
(45 mph POSTED SPEED LIMIT)

SCALE: 1" = 50'



VICINITY MAP
NOT TO SCALE

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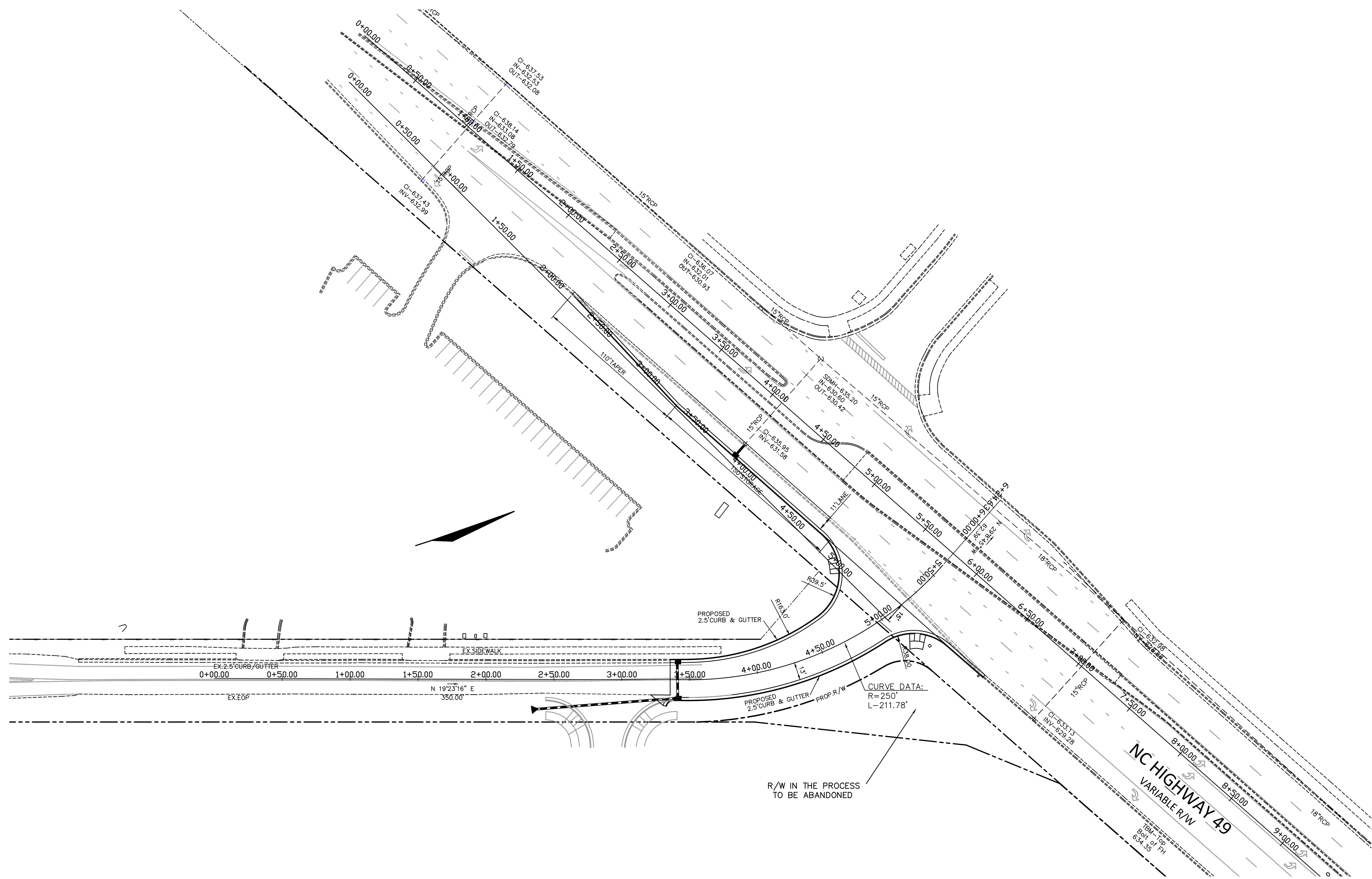
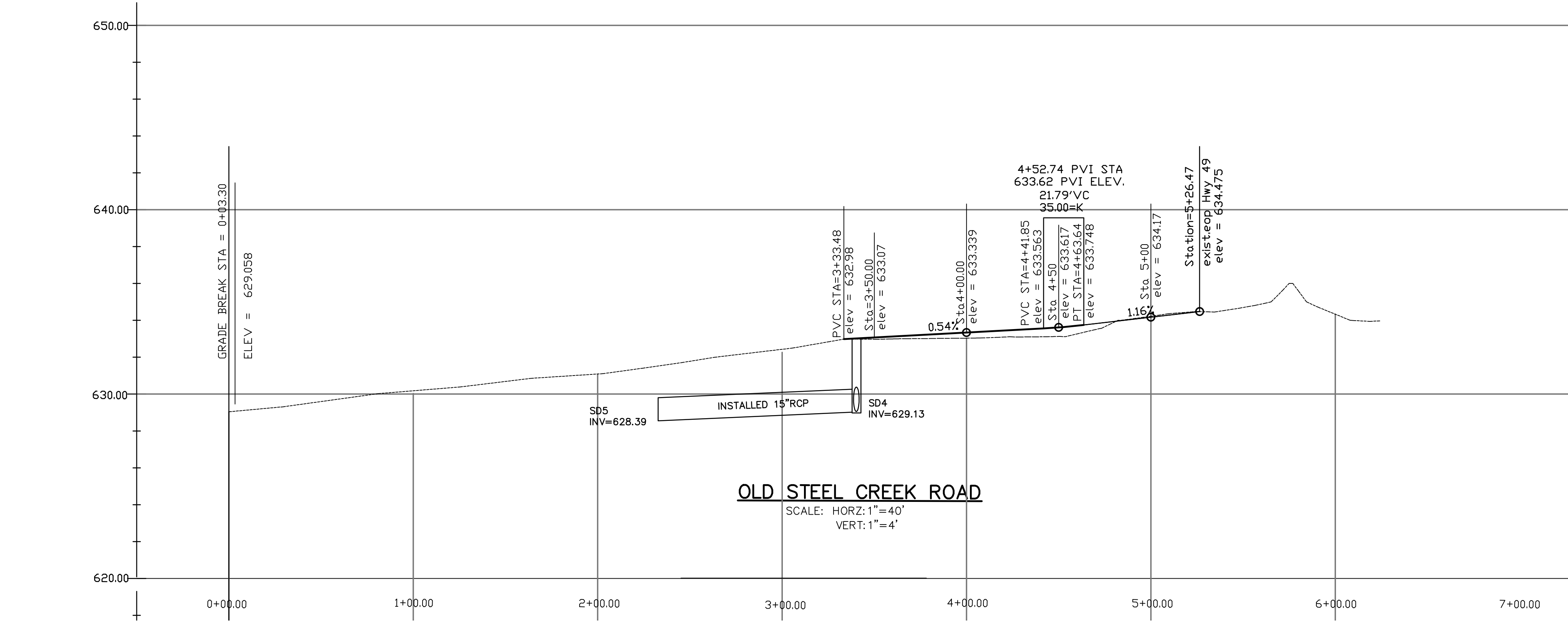
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APPROVED BY	PROJECT NUMBER	2	1/20/14
FILE NAME	PROJECT TITLE		
	PROJECT DATE		

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



HWY 49—YORK ROAD
LEFT TURN LANE MODIFICATIONS

C1.5



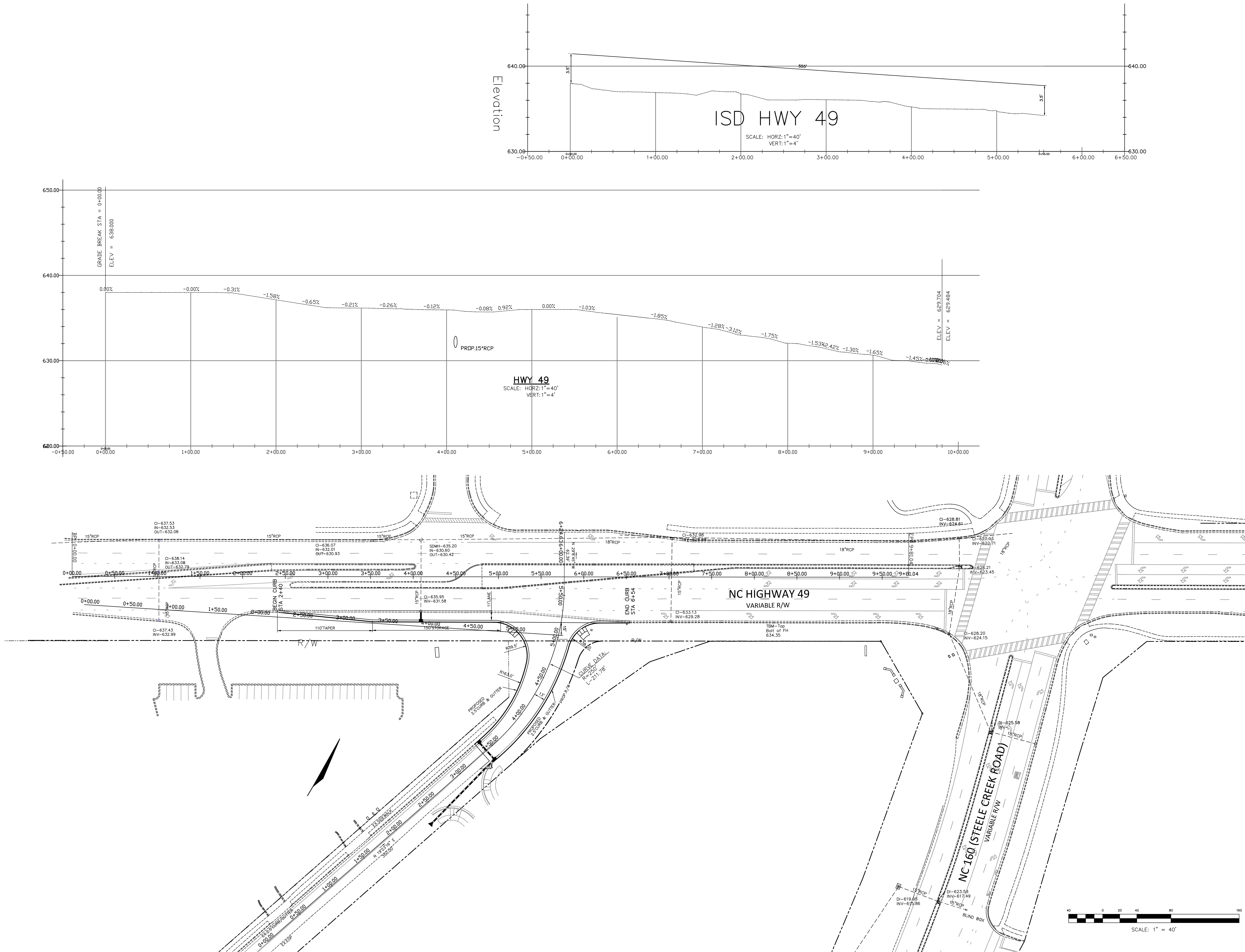
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PROJECT NUMBER	
DESIGNED BY	
CHECKED BY	
DATE	

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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

OLD STEEL CREEK ROAD
PLAN AND PROFILE

C1.6



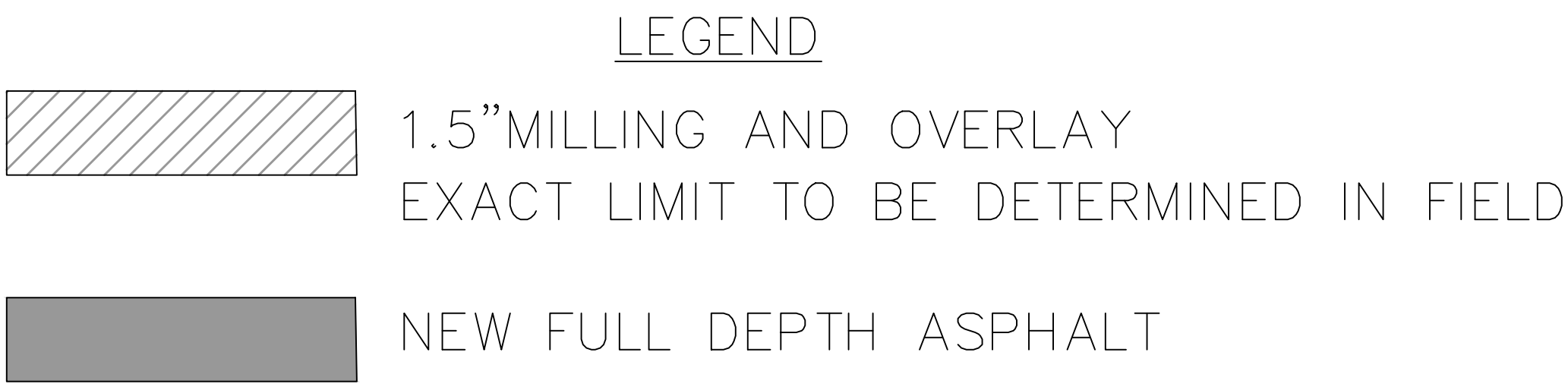
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KEY NOTE	PROJECT TITLE		
	PROJECT LOCATION		
	PROJECT DATE		

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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

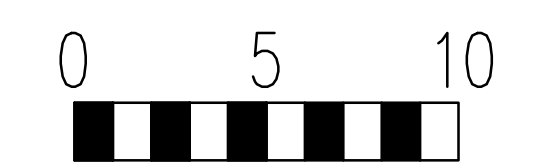
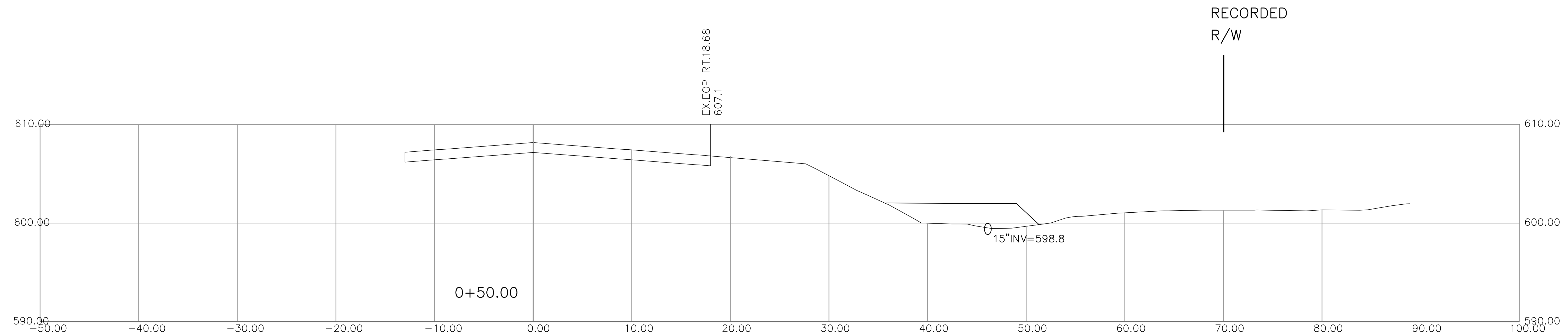
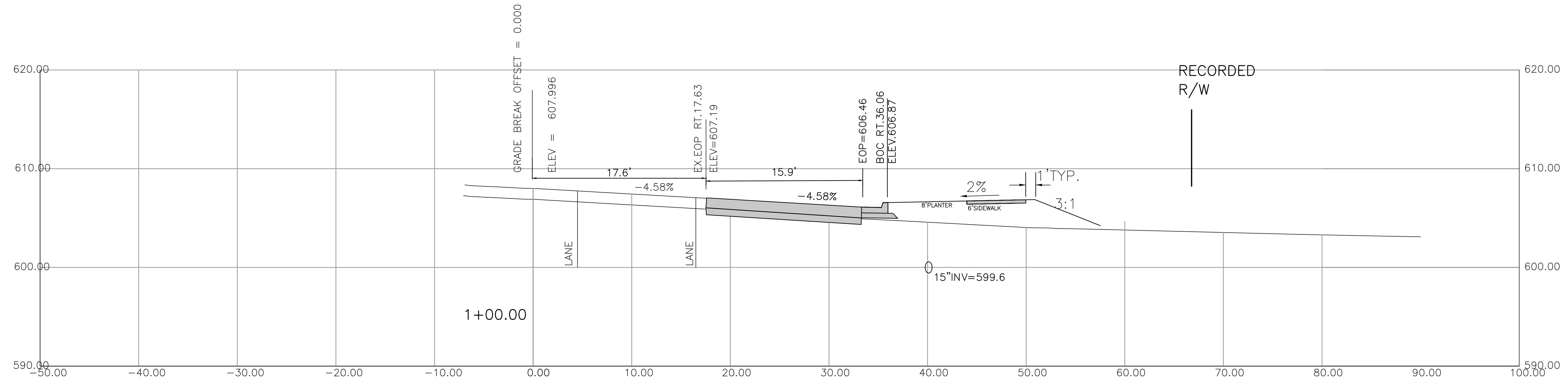
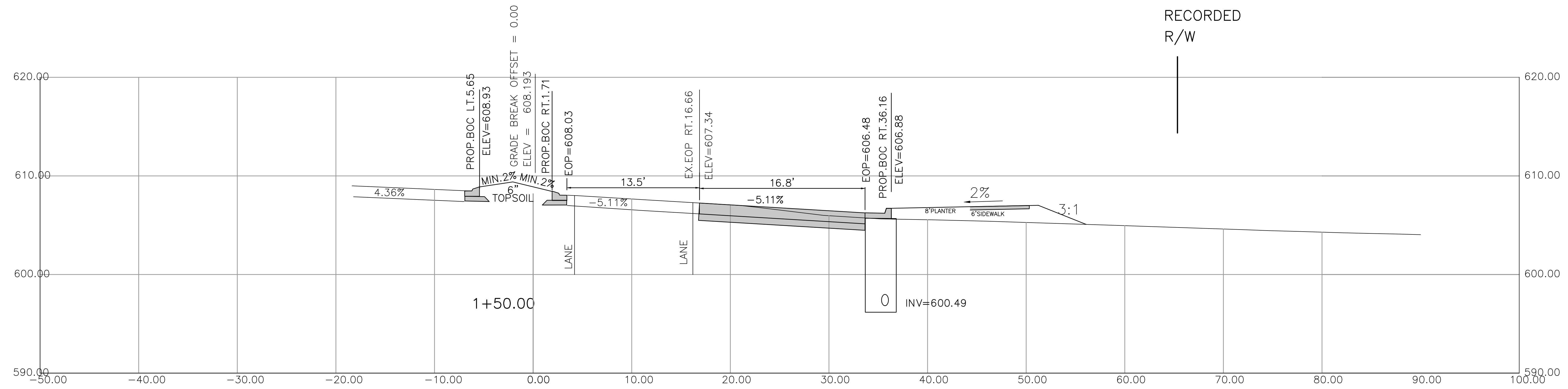
HWY 49 PLAN AND PROFILE
AND ISD PROFILE

C1.7



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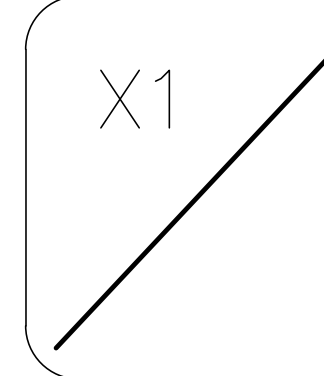
C1.8



RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



STEELE CREEK ROAD SECTIONS

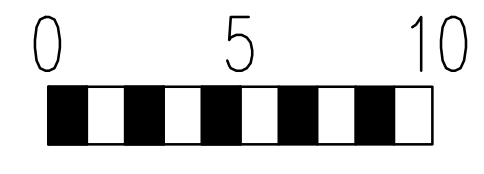
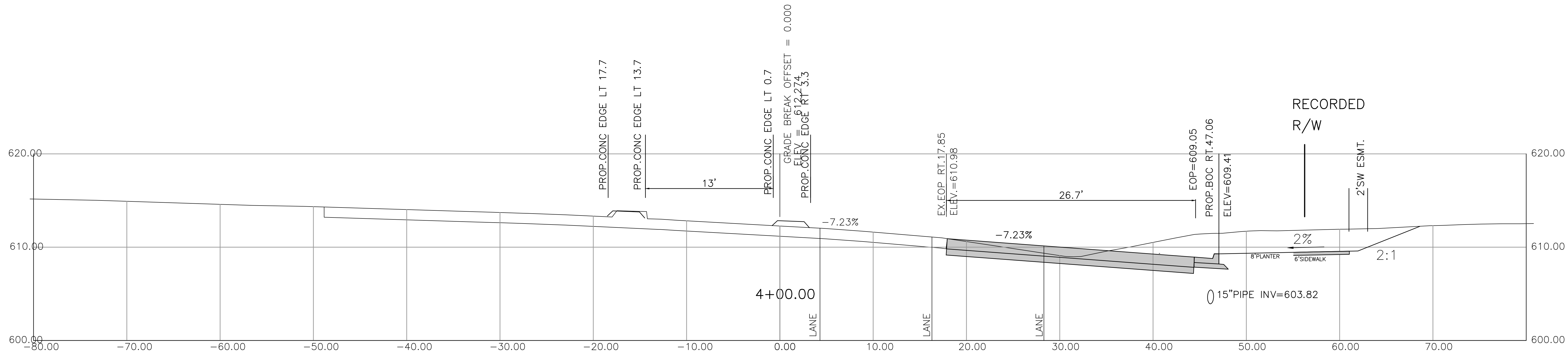
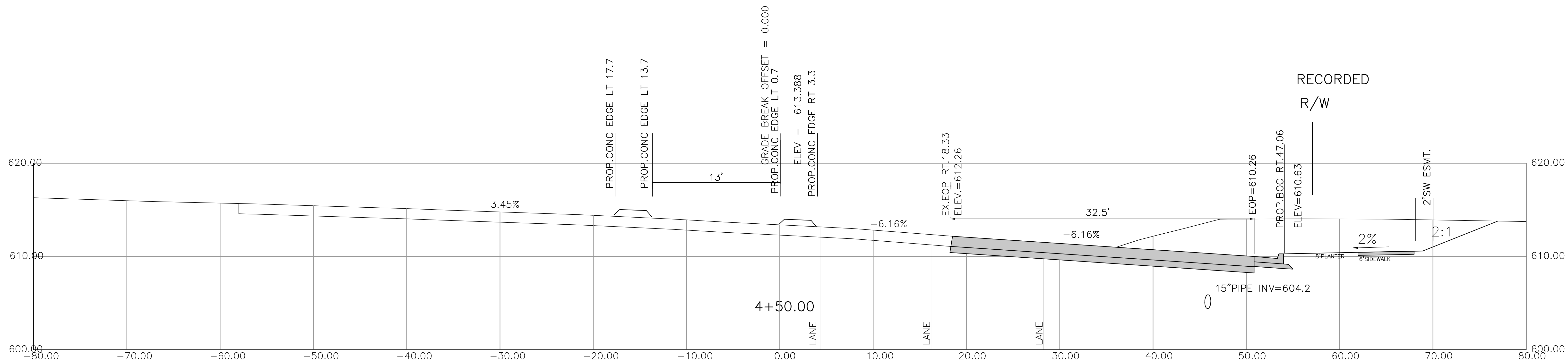
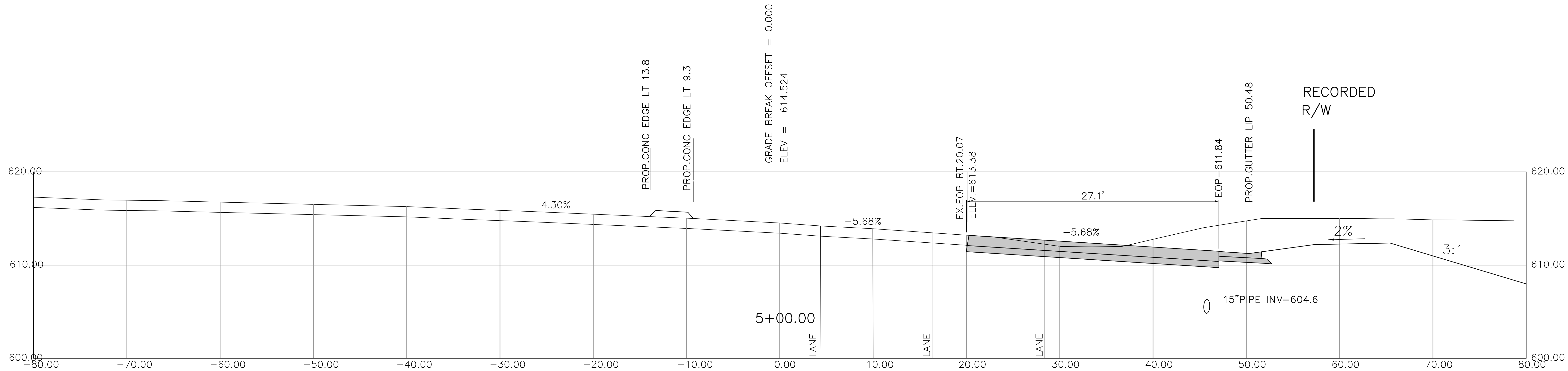


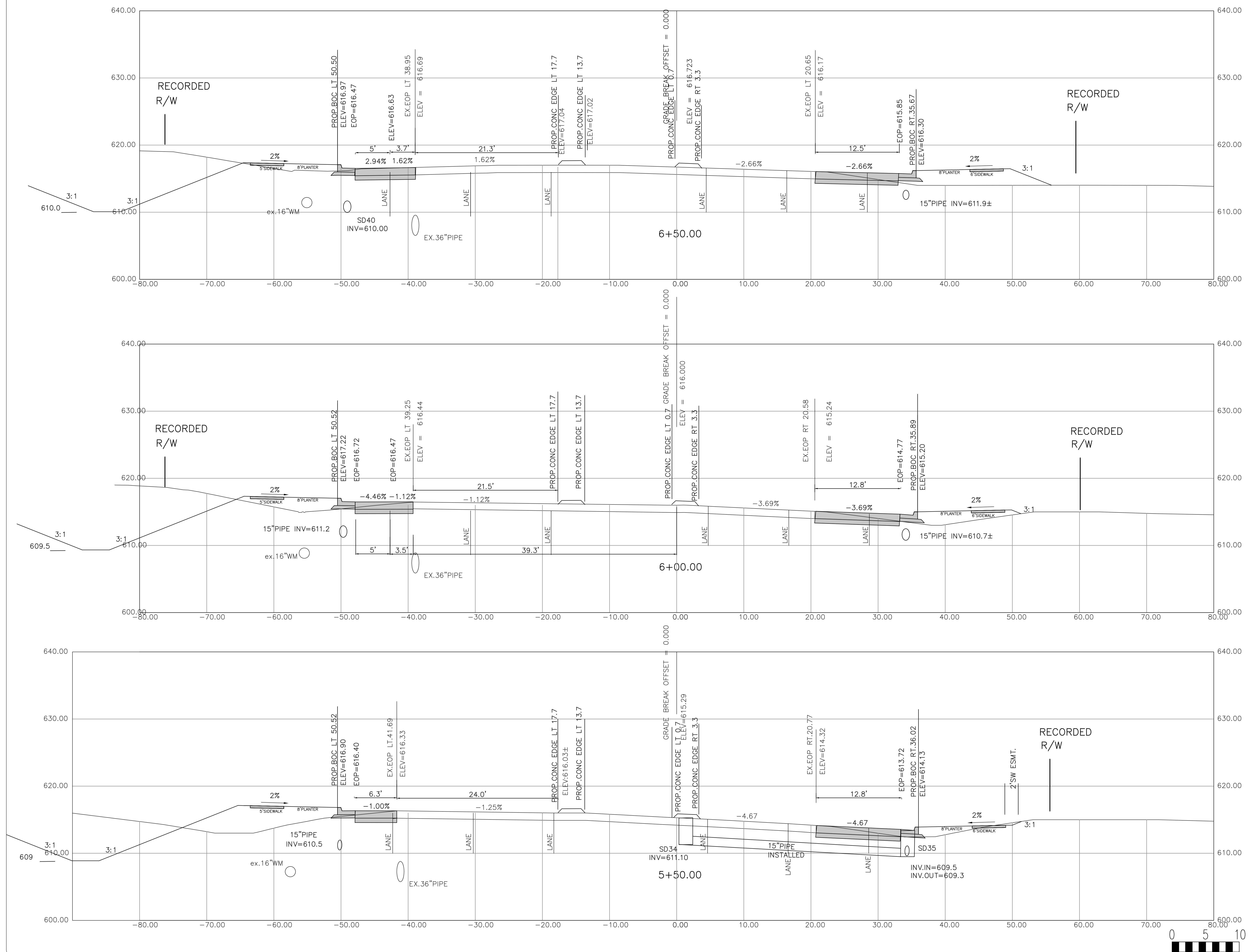
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1	11/27/14	1.000
2	12/14/14	2.000

PROJECT MANAGER	DESIGNER	CHECKER	DATE
KEVIN S. CALDWELL	KEVIN S. CALDWELL	KEVIN S. CALDWELL	12/14/14

PROJECT NAME	PROJECT NUMBER	PROJECT DATE
STEELE CREEK ROAD	1000000000	12/14/14

PROJECT NAME	PROJECT NUMBER	PROJECT DATE
STEELE CREEK ROAD	1000000000	12/14/14





PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGN BY	PROJECT DATE		
APPROVED BY	PROJECT NUMBER	2	1.2014
FILE NAME	PHASE		
	TASK		
	POST DATE		

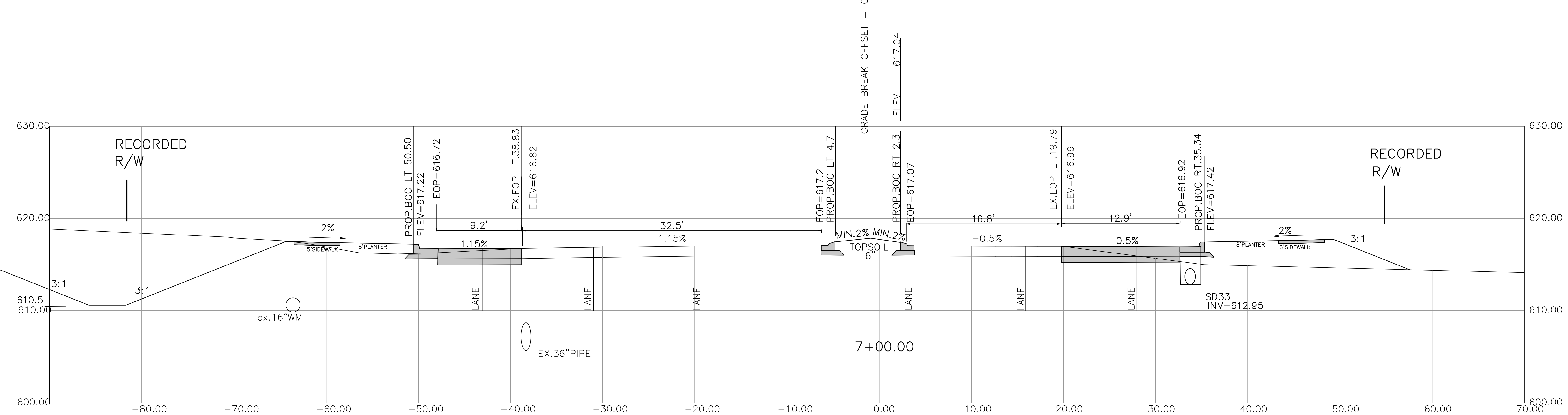
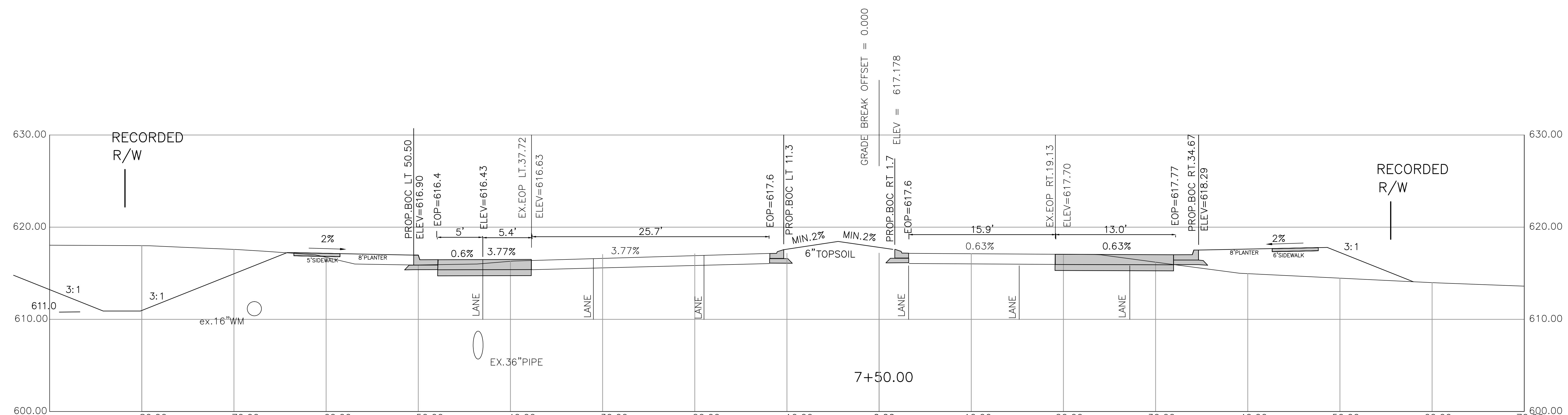
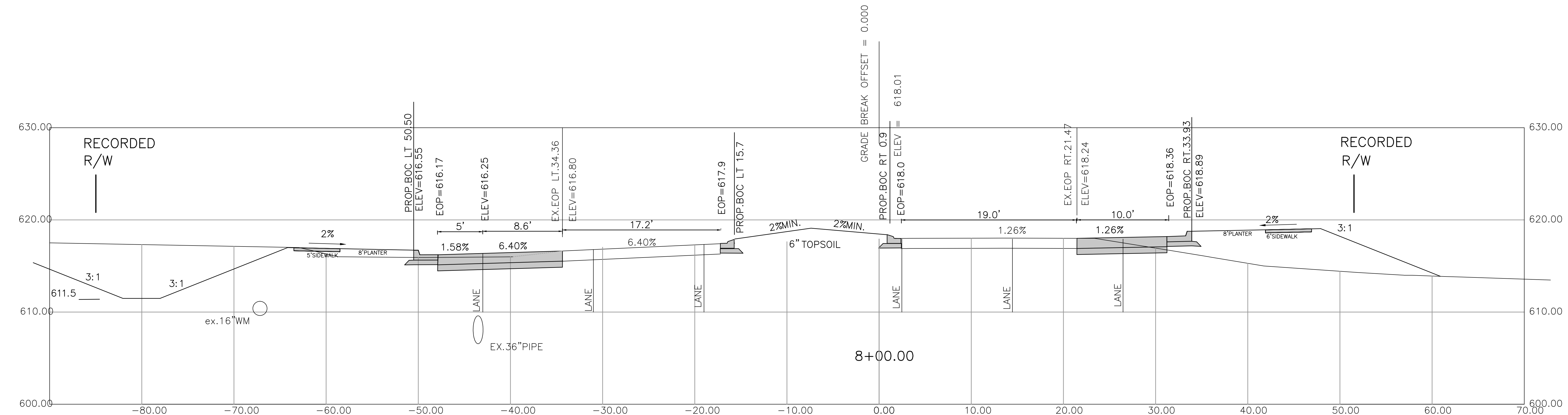
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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRRESS KILFIN PROPERTIES



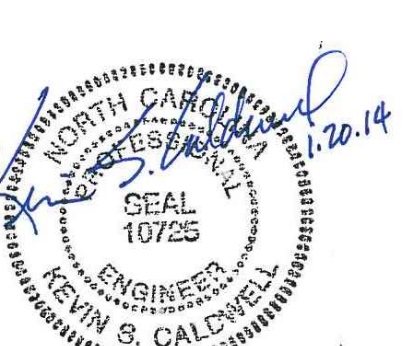
STEELE CREEK ROAD SECTIONS

X4 /



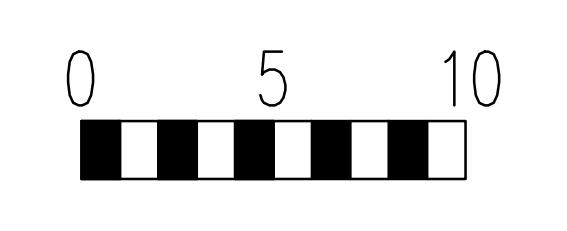
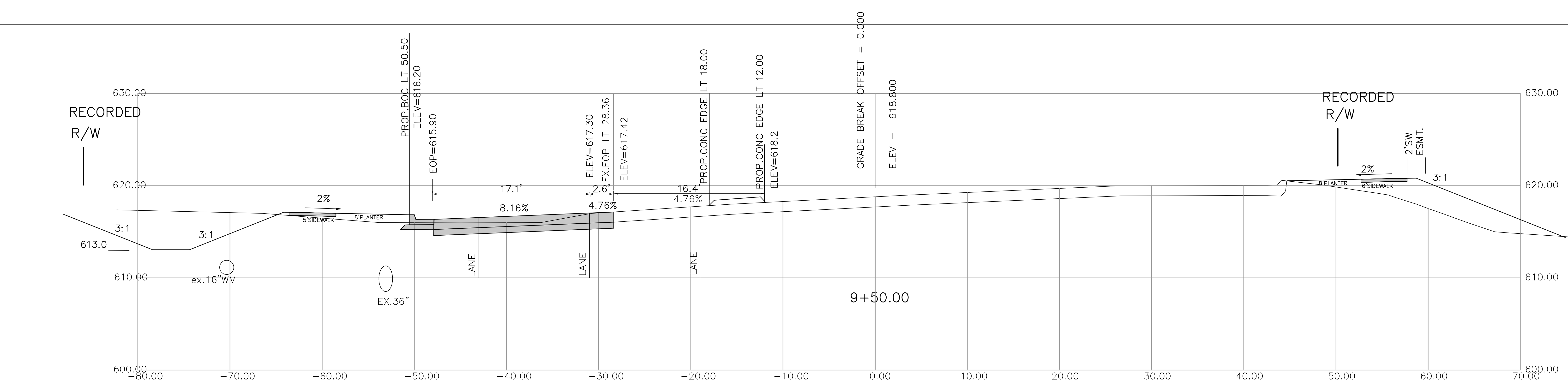
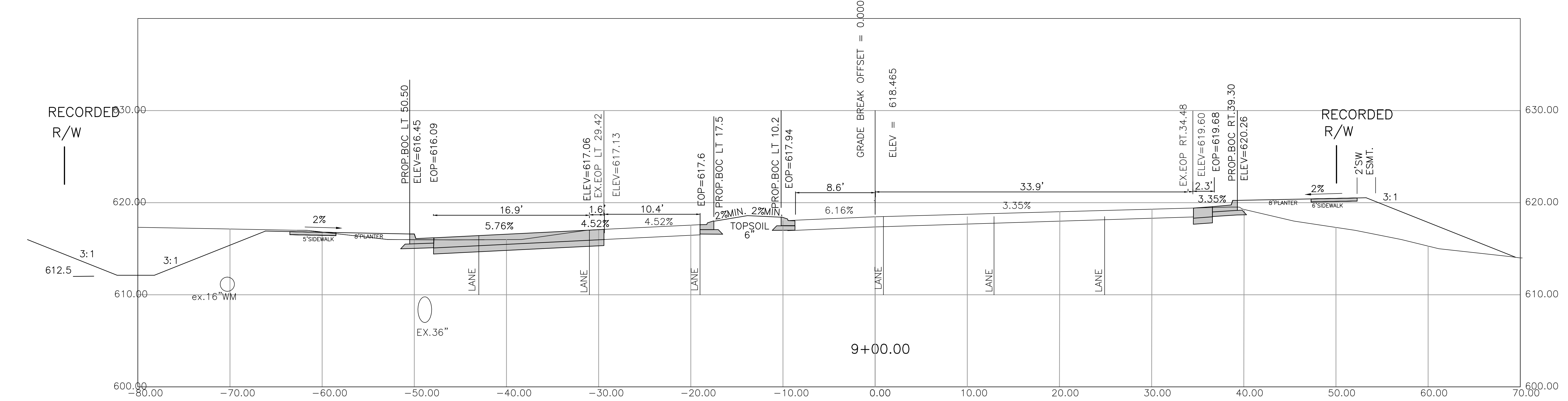
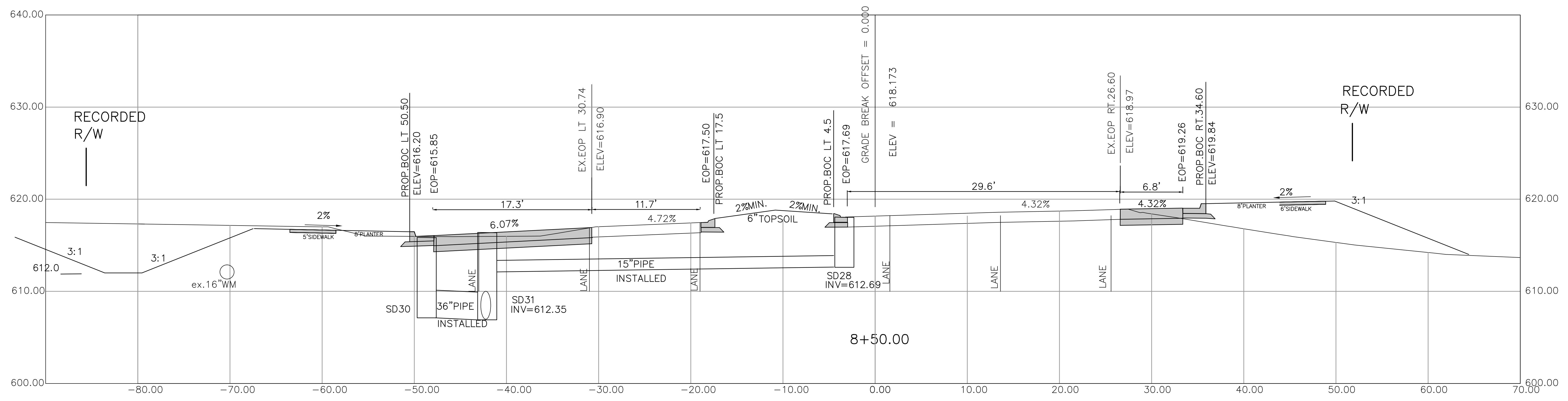
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PROJECT NUMBER	2. CDD/DOE & CITY COMMENTS
PROJECT TITLE	
PROJECT TYPE	
PROJECT DATE	

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



STEELE CREEK ROAD SECTIONS

X5



X6

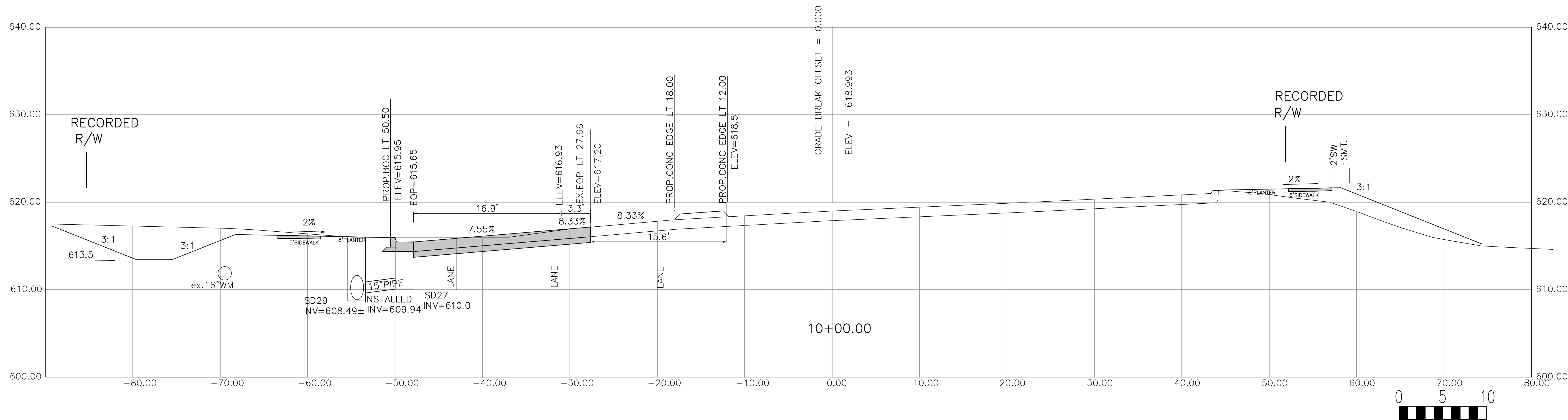
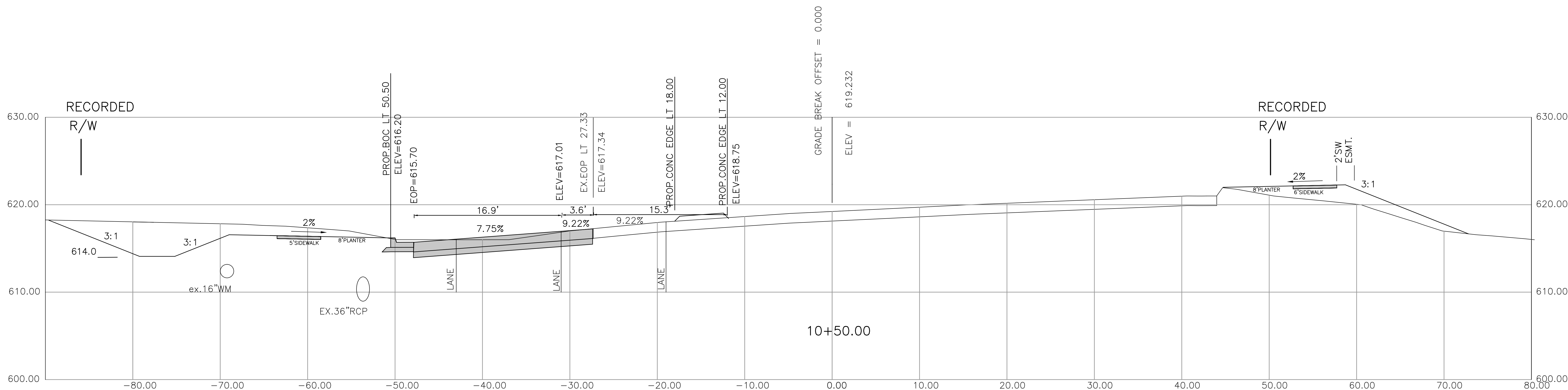
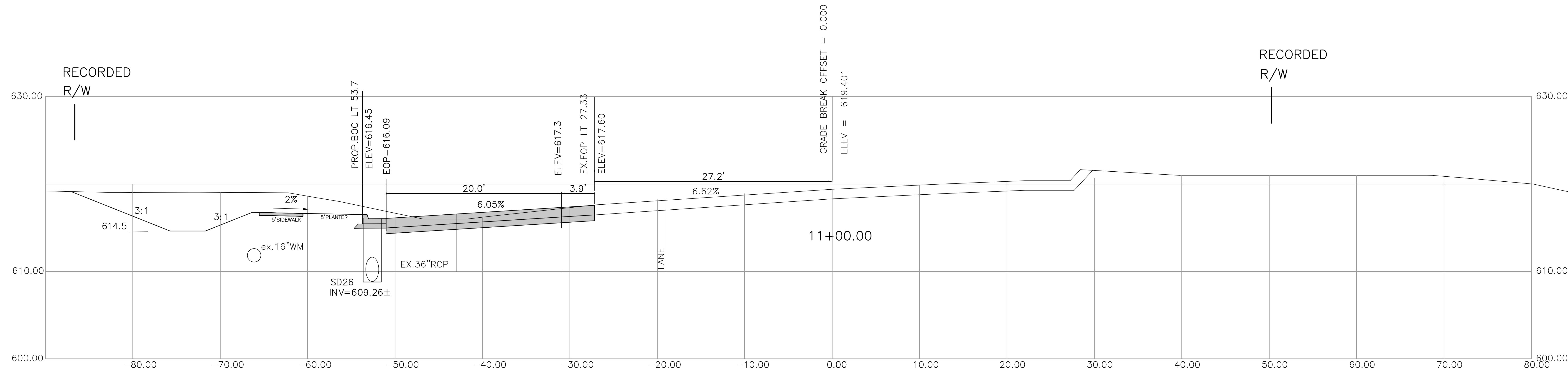
STEELE CREEK ROAD SECTIONS



RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

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	12/14/23	
APPROVED BY	2	
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	12/14/23	
PROJECT NUMBER	12/14/23	
	12/14/23	
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	12/14/23	
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	12/14/23	
PROJECT NUMBER	12/14/23	
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DATE	12/14/23	
	12/14/23	

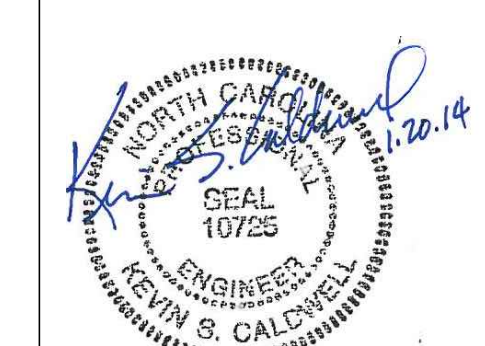
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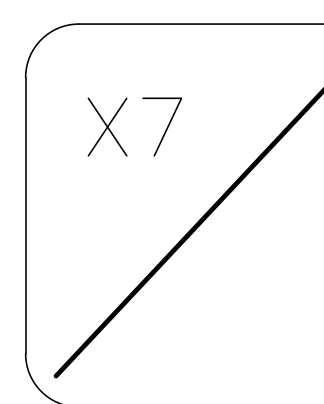
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DESIGN BY	1
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DESIGN BY	2
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DATE	1.20.14

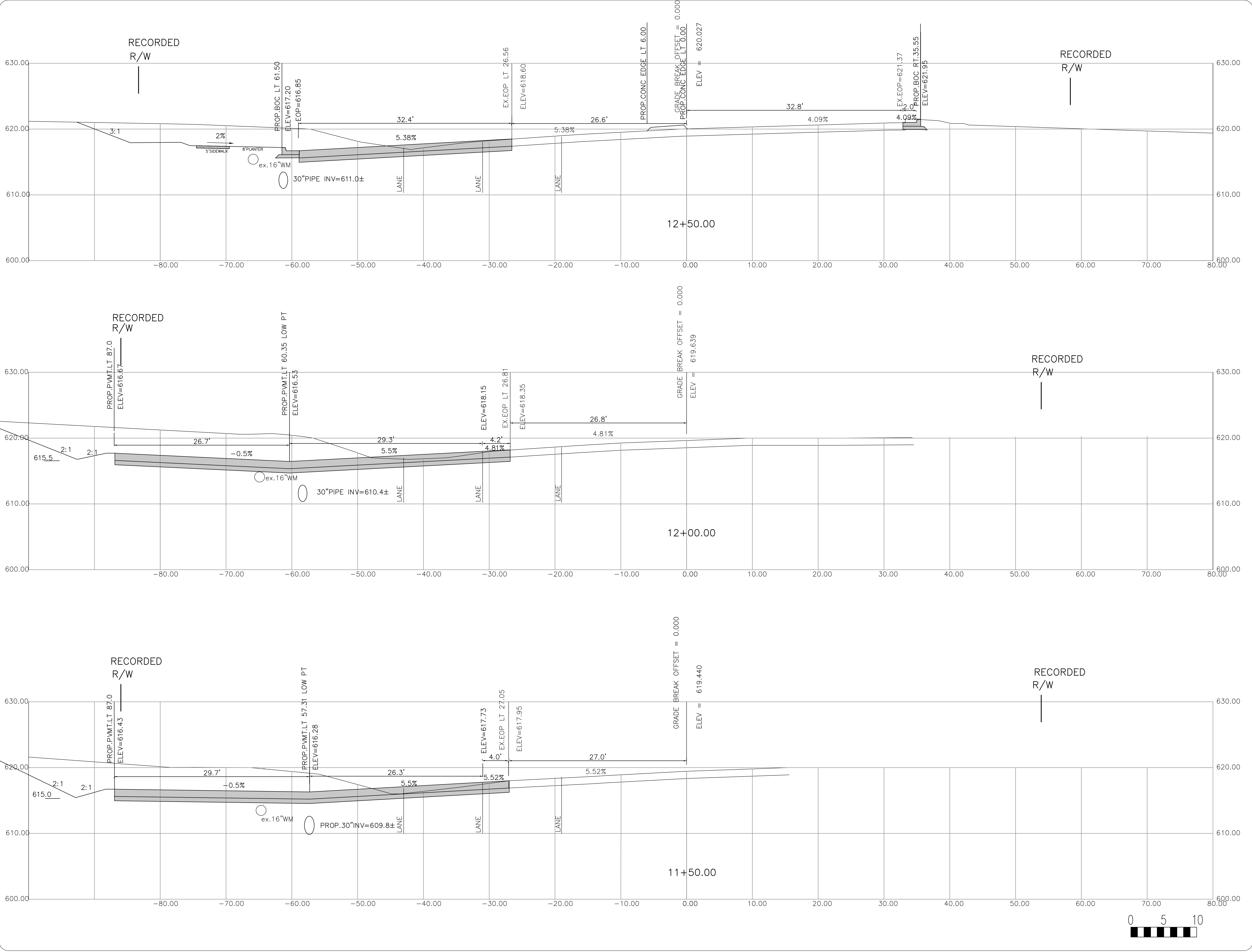
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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



STEELE CREEK ROAD SECTIONS





DATE	11/27/23
REV	1
DESCRIPTION	1.000/0.001 & CITY COMMENTS
PROJECT NUMBER	2
PROJECT NAME	2.001/0.001 & CITY COMMENTS
DESIGNED BY	
CHECKED BY	
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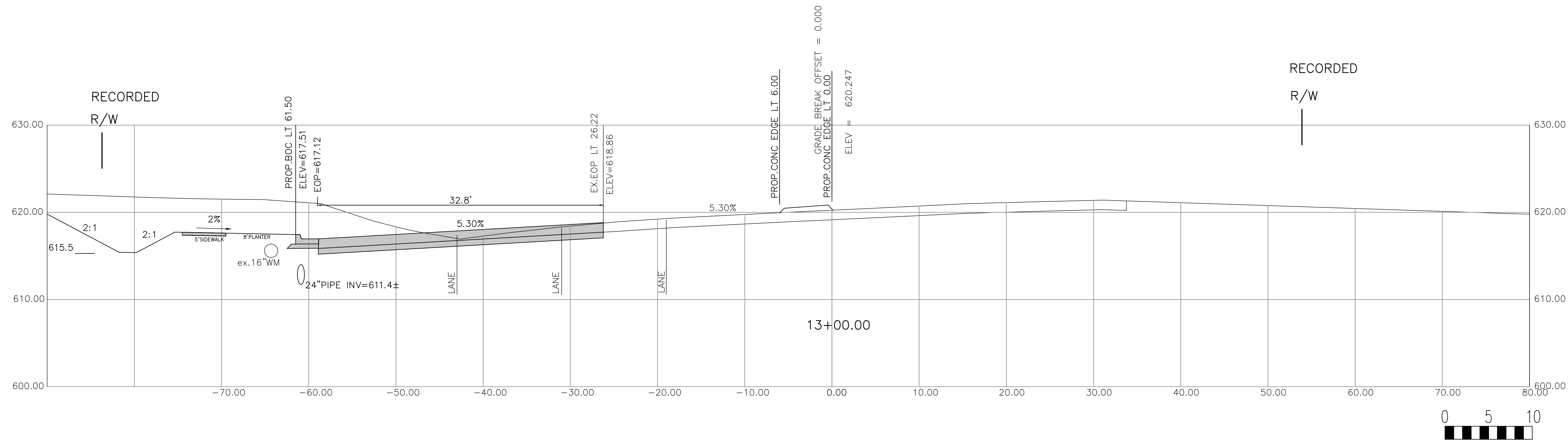
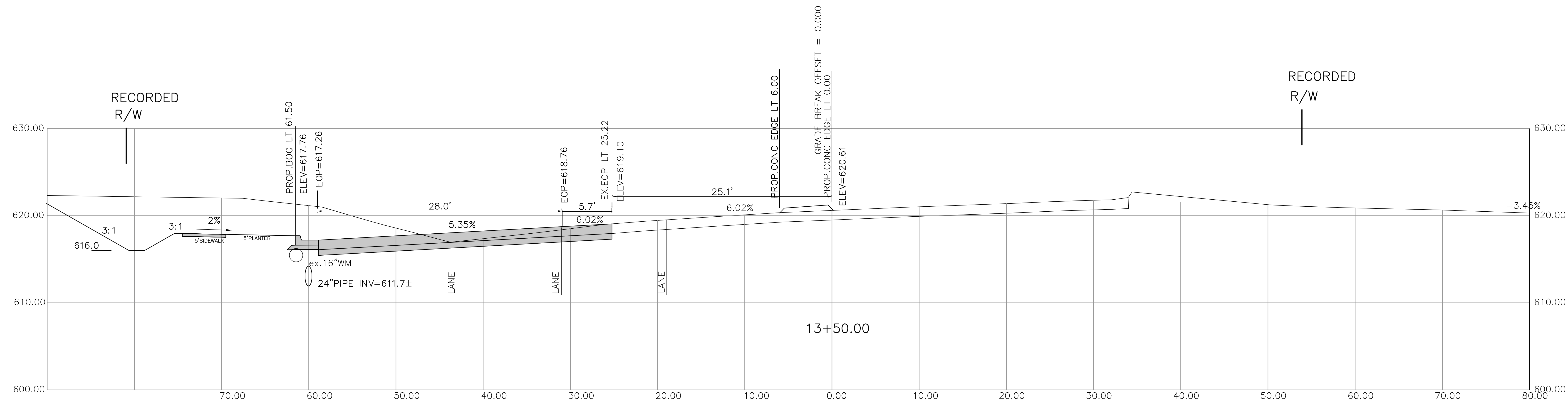
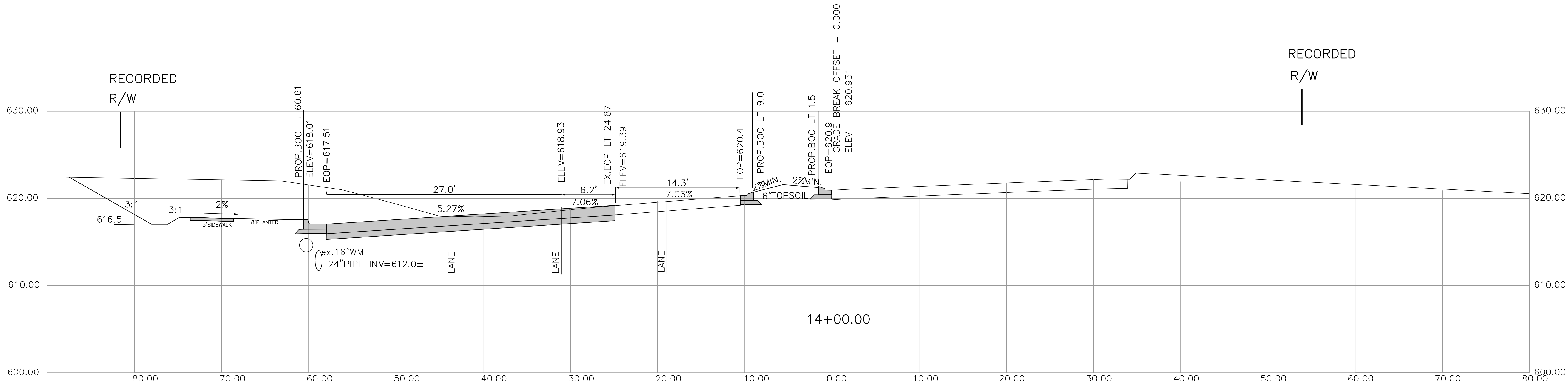
CESSCIENCE GROUP
10000 North Blvd
Charlotte, NC 28217
Phone: 704.555.5555
www.cessciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



STEELE CREEK ROAD SECTIONS

X8



REV	DATE	DESCRIPTION
1	11/27/13	ISSUED FOR PERMIT
2	12/14/14	ISSUED FOR PERMIT

PROJECT MANAGER	DESIGNER	CHECKER	DATE

PROJECT NAME	PROJECT NUMBER	PROJECT TYPE	PROJECT DATE

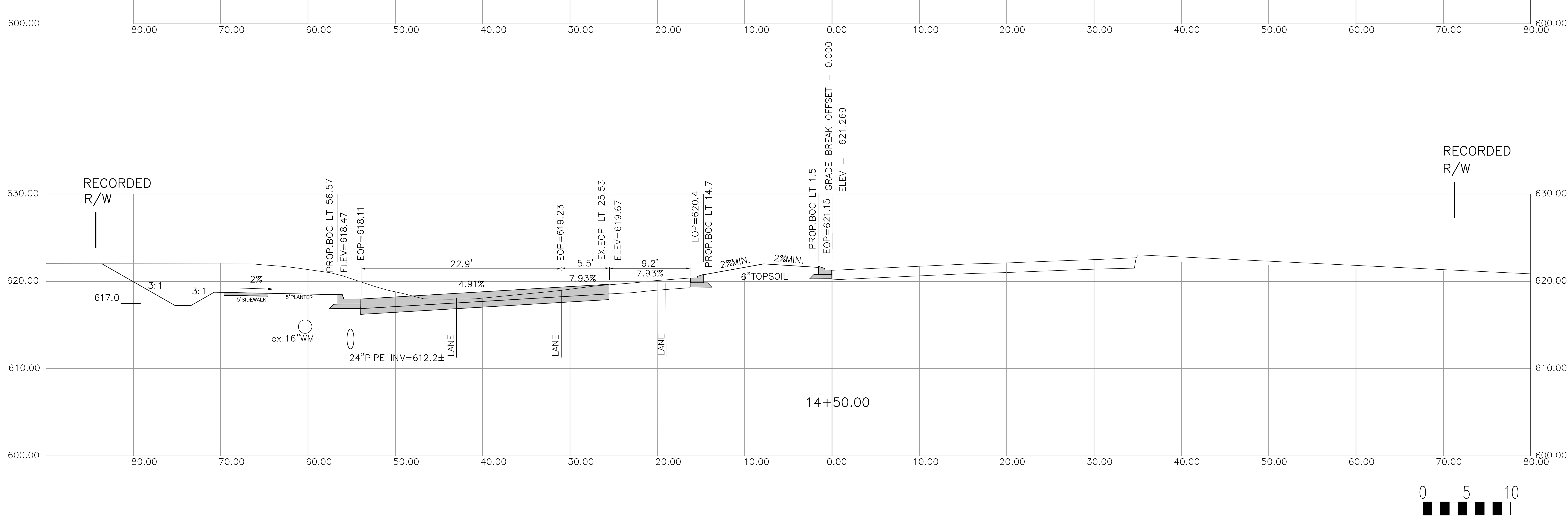
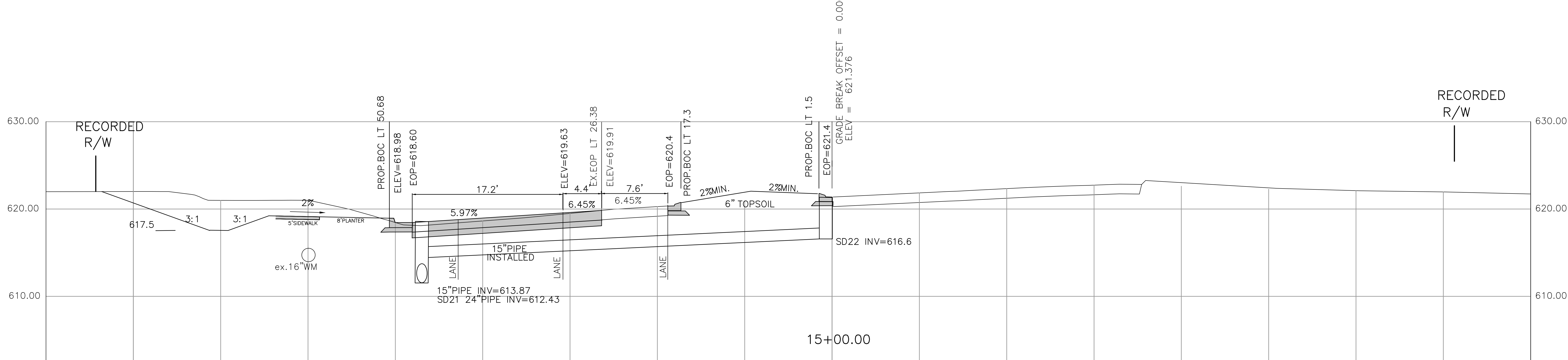
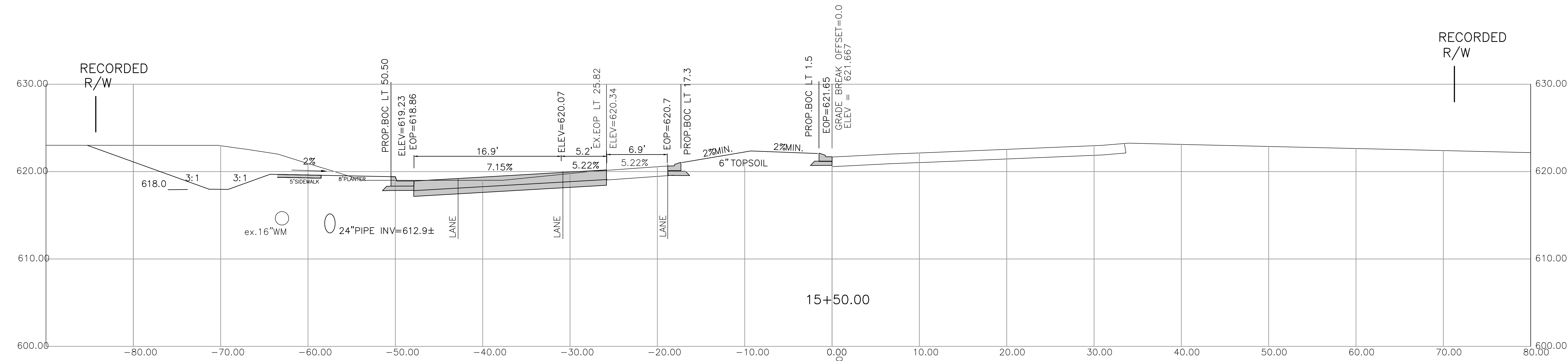
CESSCIENCE GROUP
10000 North Carolina Highway 100
Charlotte, NC 28217
Phone: 704.555.5555
www.cessciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



STEELE CREEK ROAD SECTIONS

X9



DATE
11/27/13

REV
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PROJECT MANAGER
JESSE BY

DRAWING SCALE
PROJECT DATE

DESIGNED BY
APPROVED BY

DATE
1/28/14

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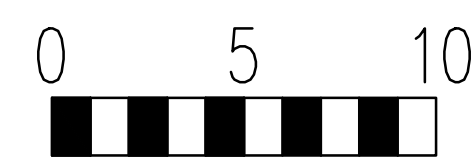
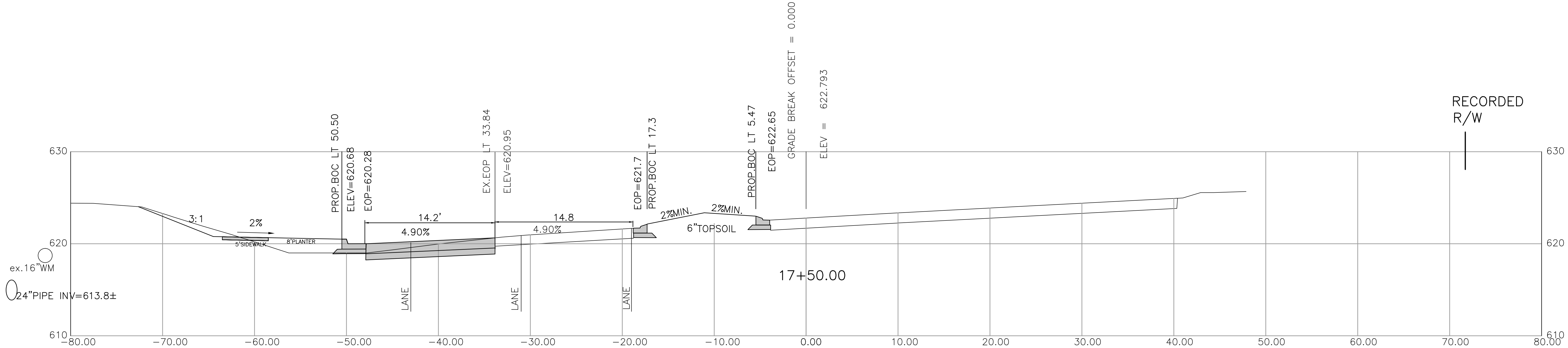
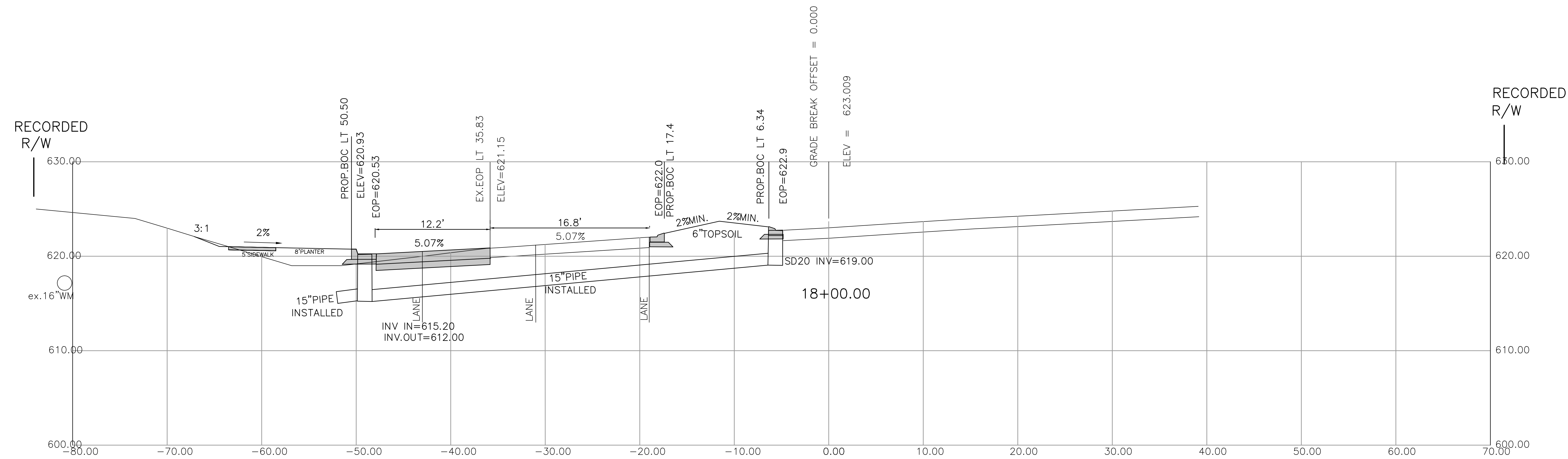
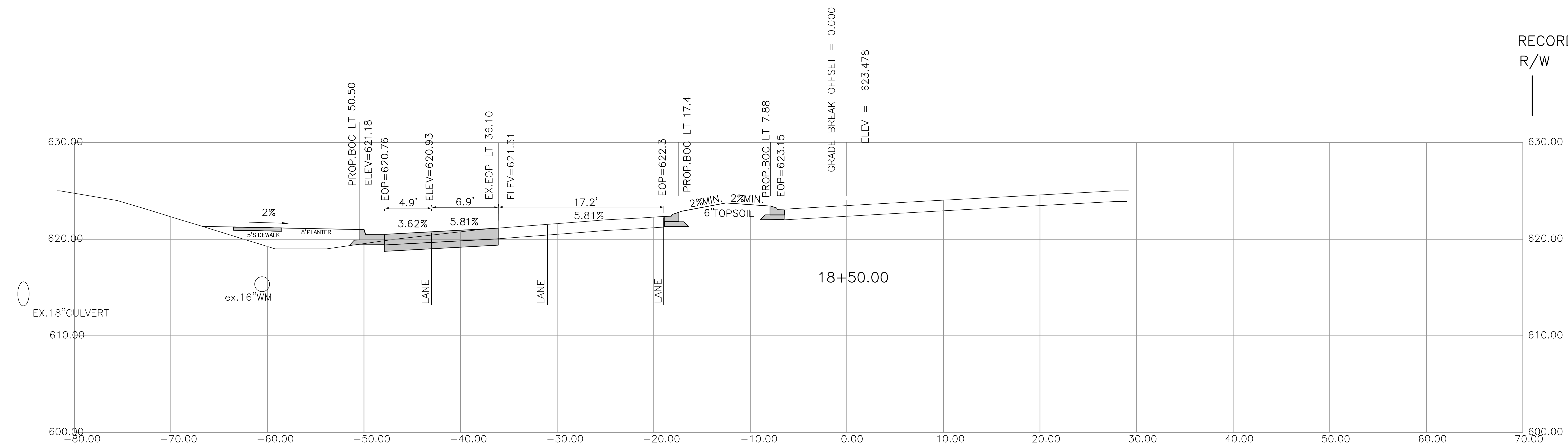
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RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

STEELE CREEK ROAD SECTIONS

X10



DATE	REV.	DESCRIPTION
11/27/13	1	ISSUED FOR CITY COMMENTS
1/28/14	2	ISSUED FOR CITY COMMENTS

DRAWING NUMBER	PROJECT NAME	PROJECT NUMBER
RD-100	RD-100	RD-100
DESIGNED BY	CHECKED BY	APPROVED BY
RD-100	RD-100	RD-100
DATE	DATE	DATE
11/27/13	11/27/13	11/27/13

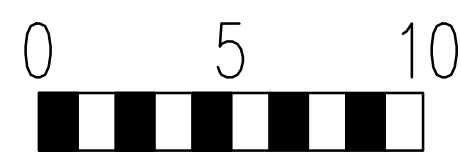
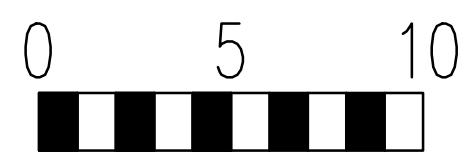
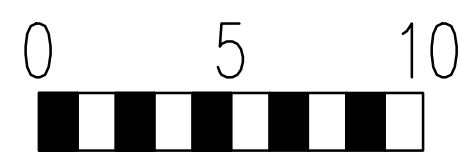
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www.cessciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



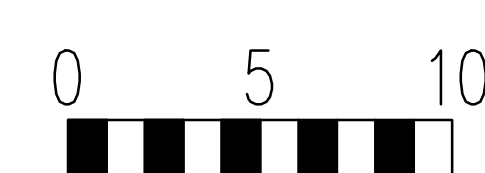
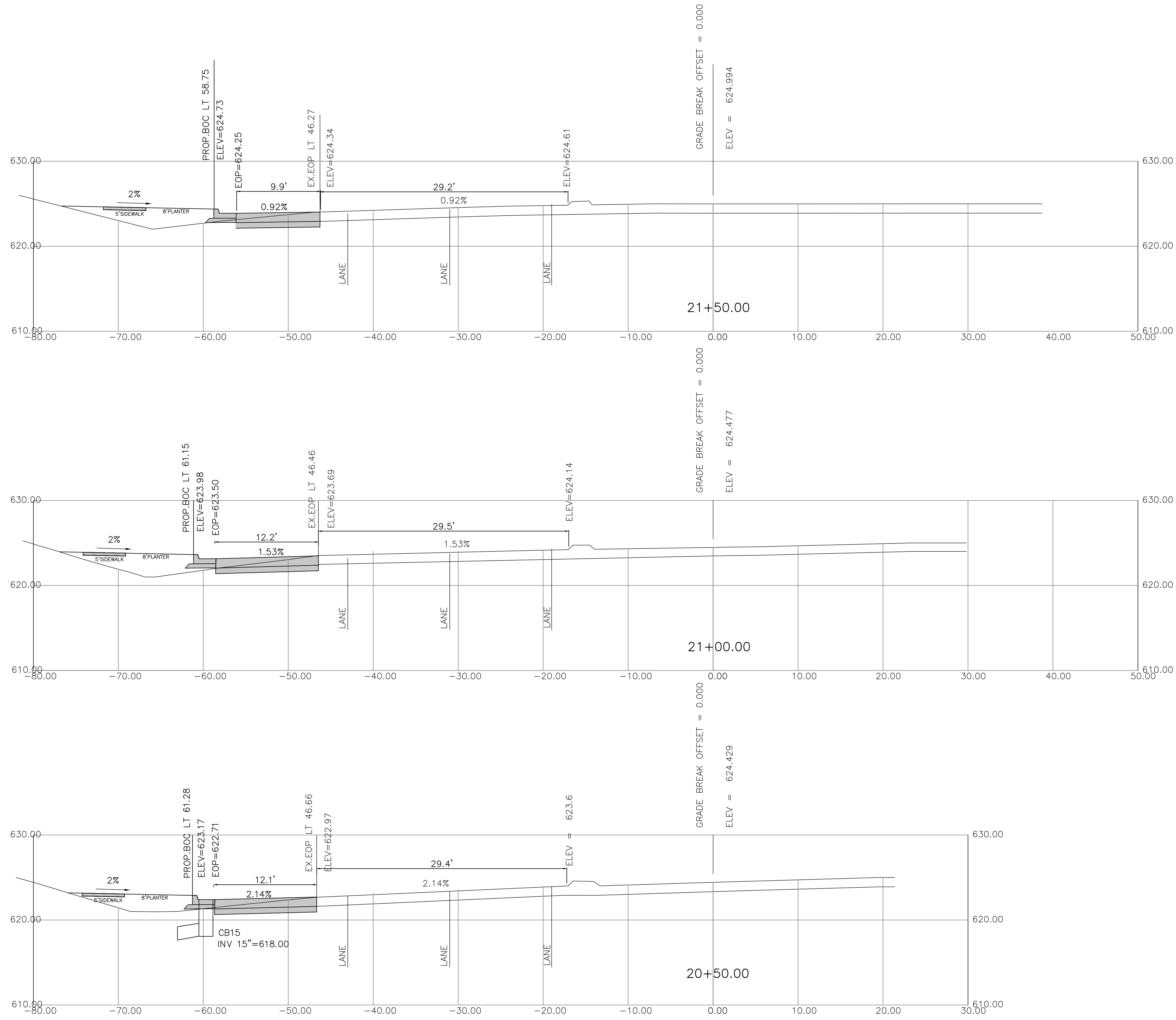
STEELE CREEK ROAD SECTIONS

X12



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500-K Clanton Road
Charlotte, NC 28217
Phone: 704.525.2003
Fax: 704.525.2051
www.geosciencegroup.com

X13



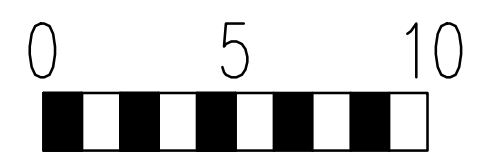
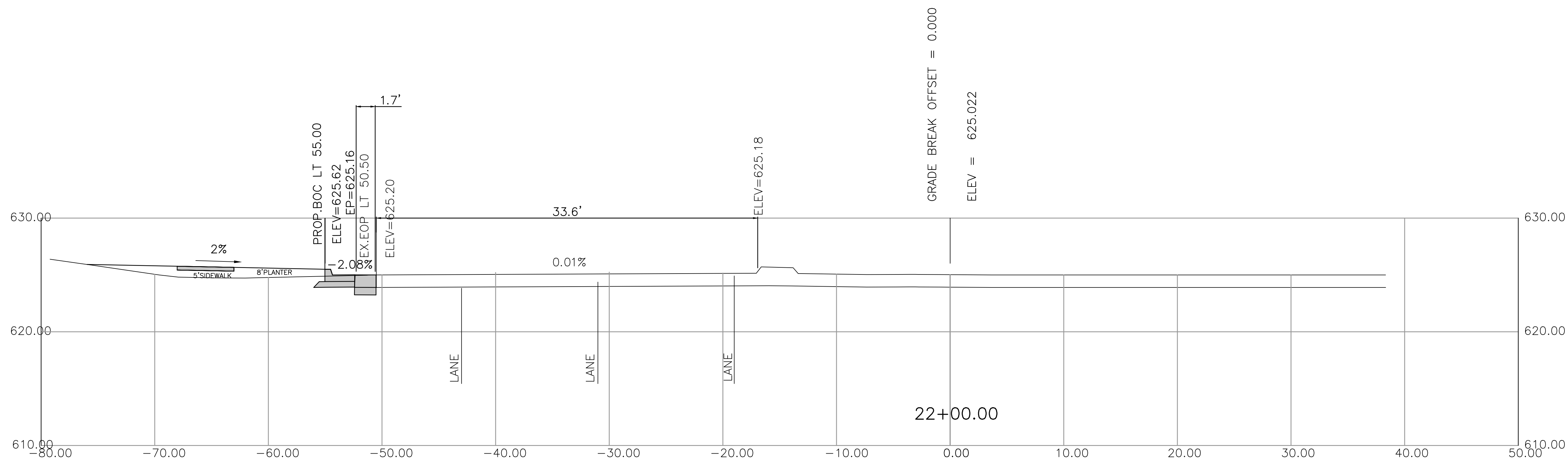
STEELE CREEK ROAD SECTIONS

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

DATE: 11/27/13
REV: 1
PROJECT NAME: RIVERGATE IV
PROJECT NUMBER: 13014
PROJECT TYPE: ROADWAY
PROJECT LOCATION: CHARLOTTE, NC 28217
PROJECT OWNER: CHILDRESS KLEIN PROPERTIES
PROJECT ENGINEER: J. B. BARNES
PROJECT DATE: 11/27/13

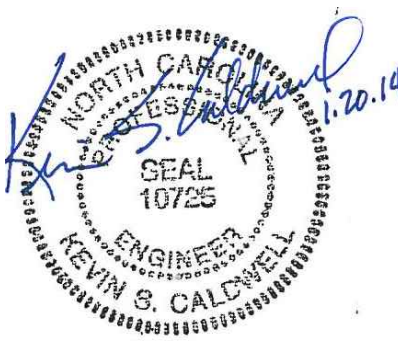
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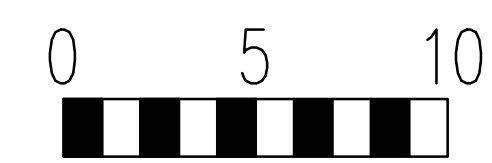
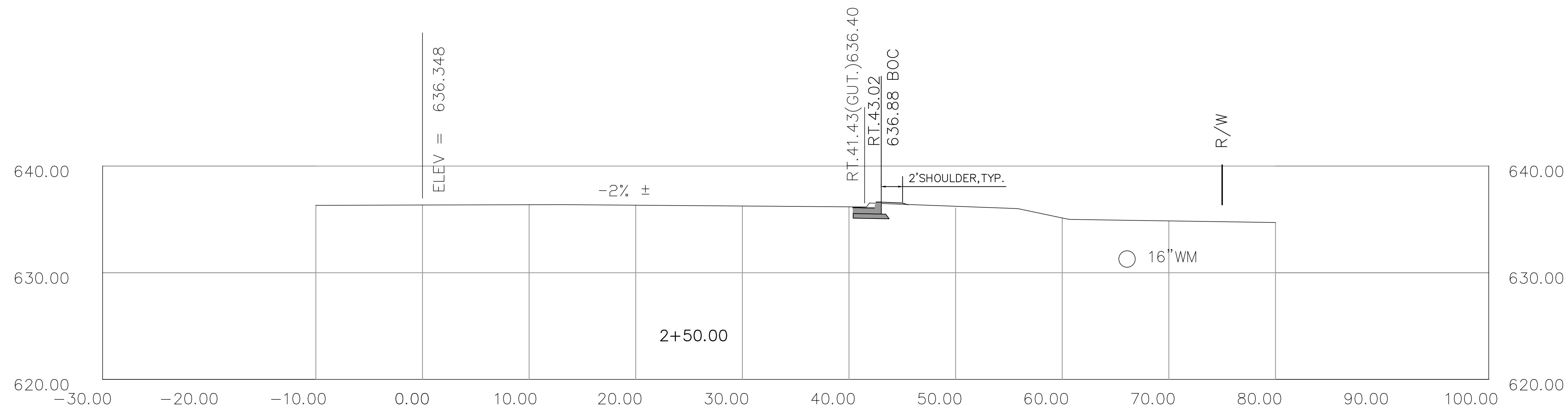
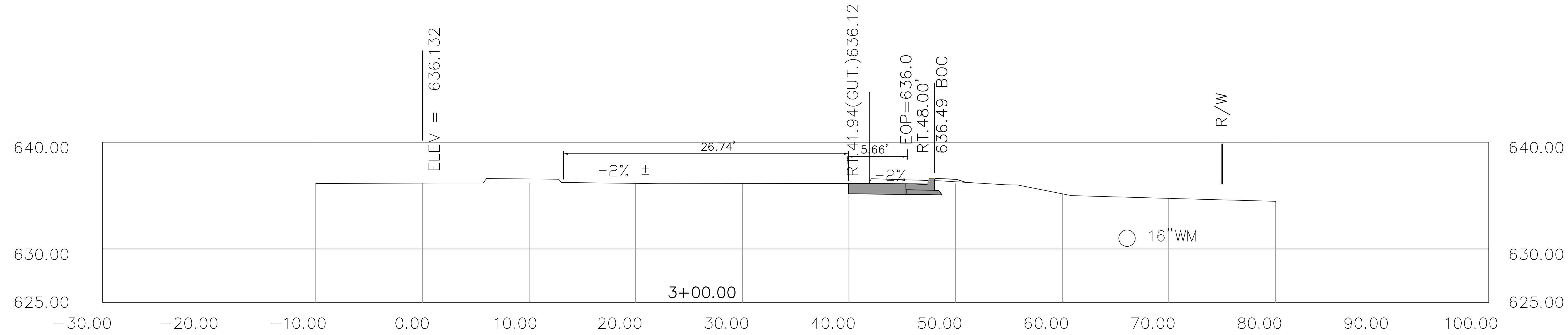
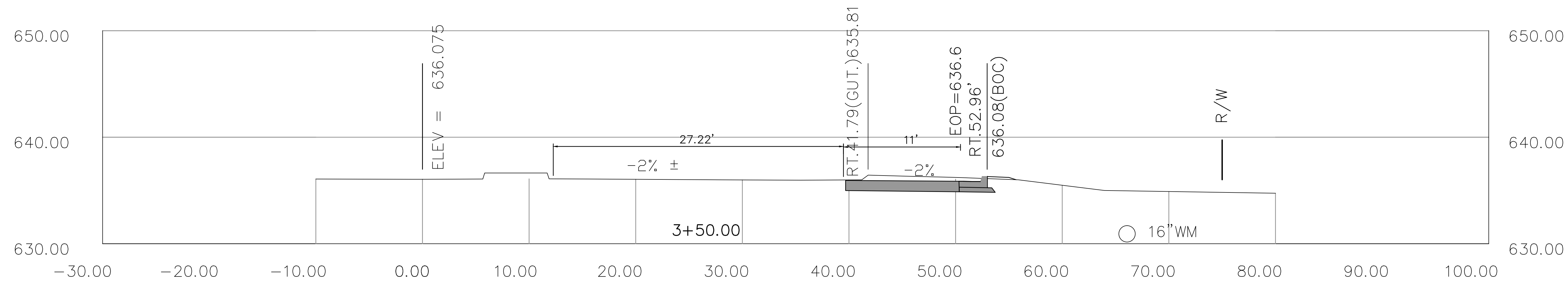
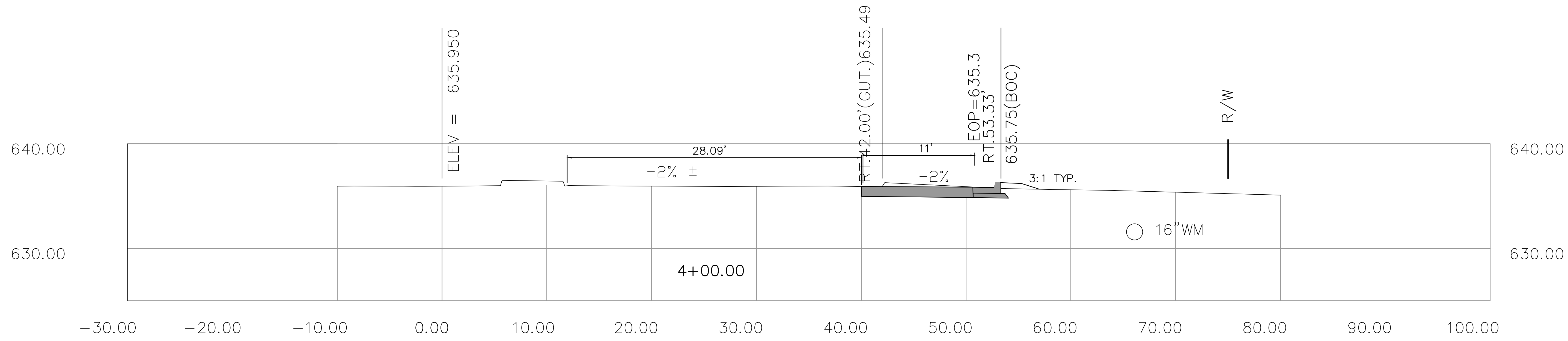
STEELE CREEK ROAD SECTIONS

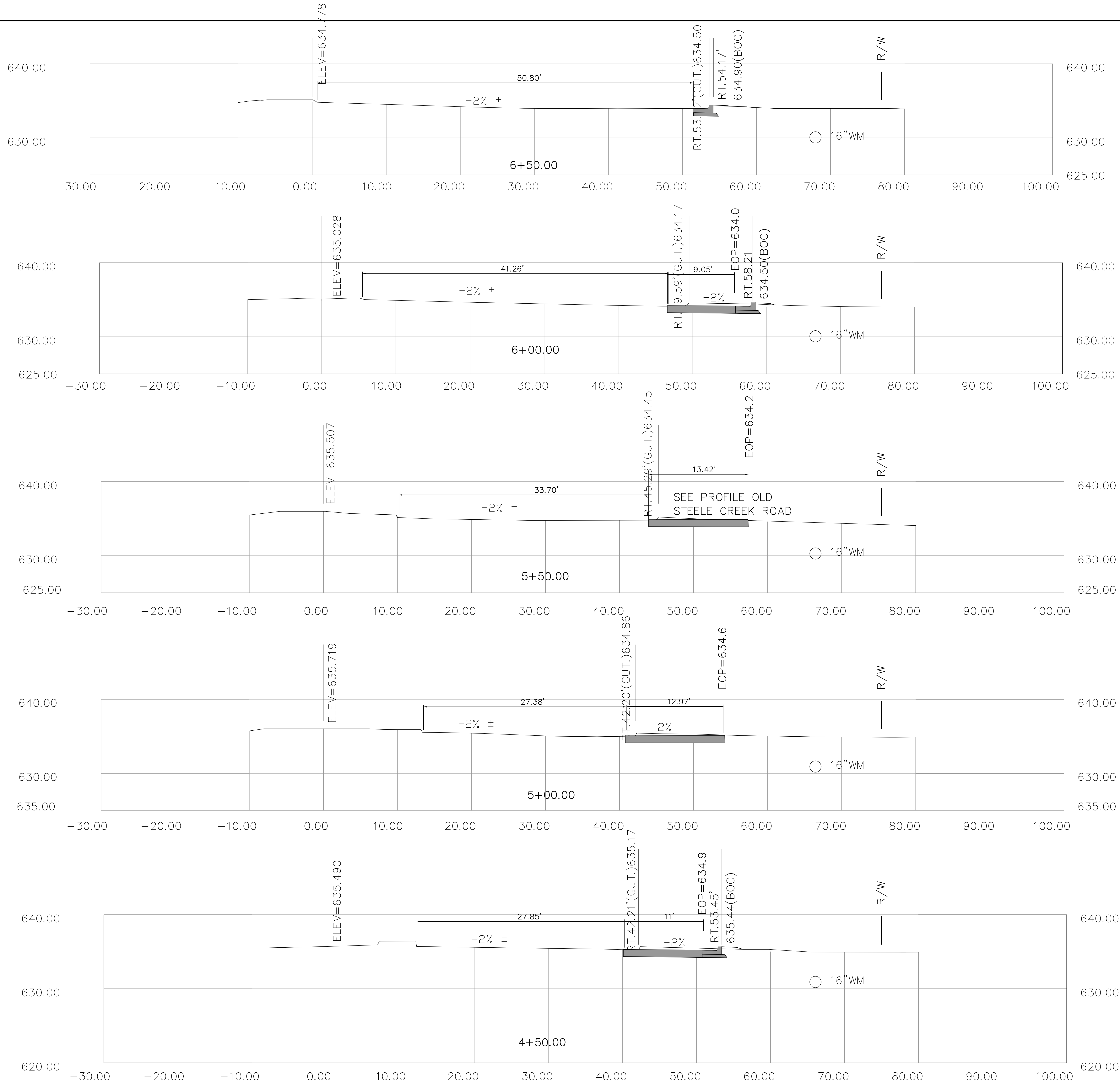


RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

GEOSCIENCE GROUP
10000 North Carolina Road
Charlotte, NC 28217
Phone: 704.535.2001
www.geosciencegroup.com

PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGN BY	PROJECT DATE	1	05/07/2014
APPROVED BY	PROJECT NUMBER	2	05/07/2014
FILE NAME	PROJECT TITLE		
	PROJECT DATE		





X17

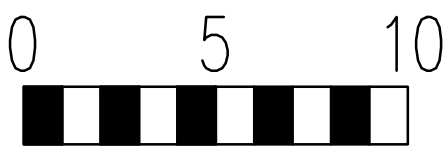
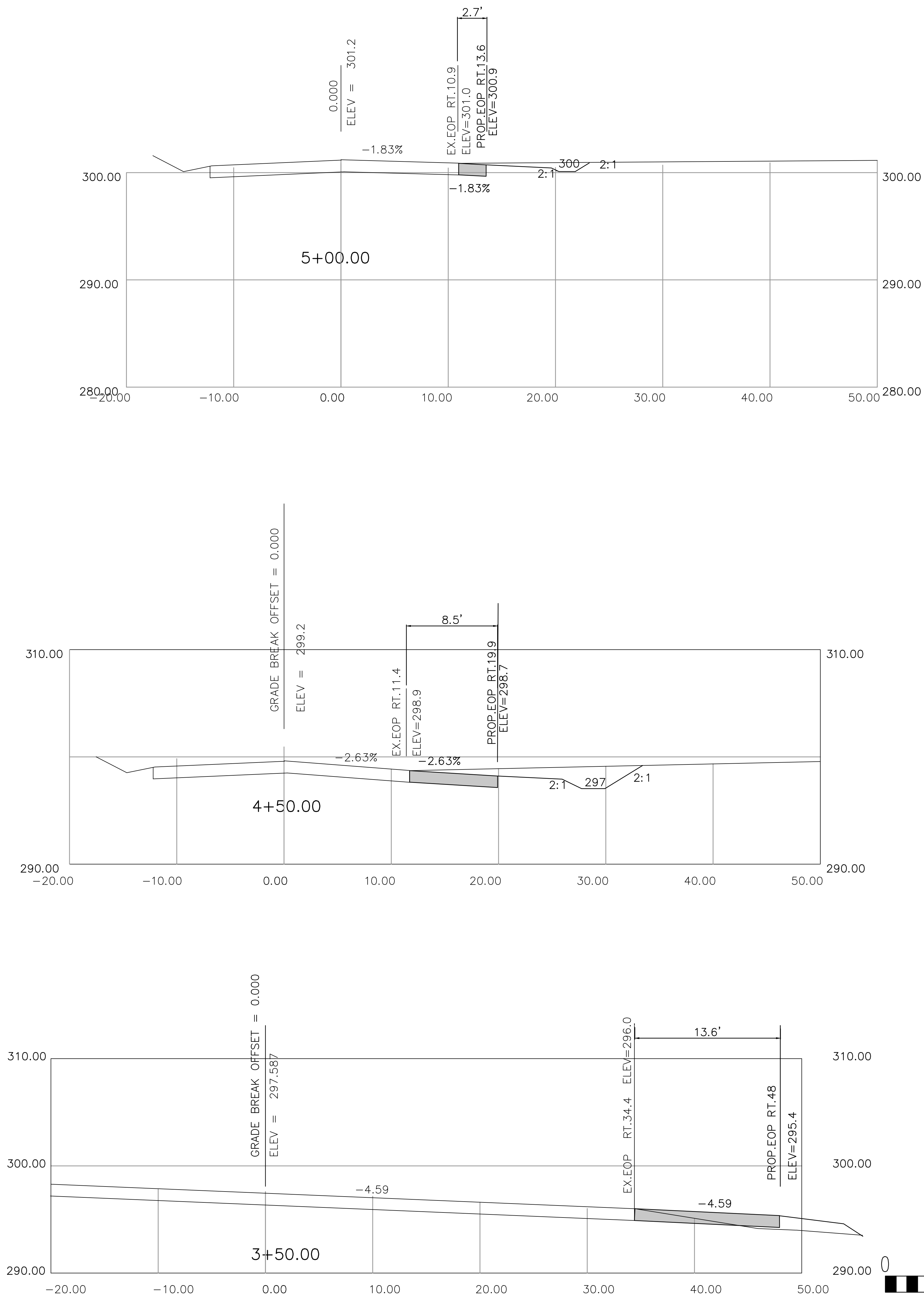
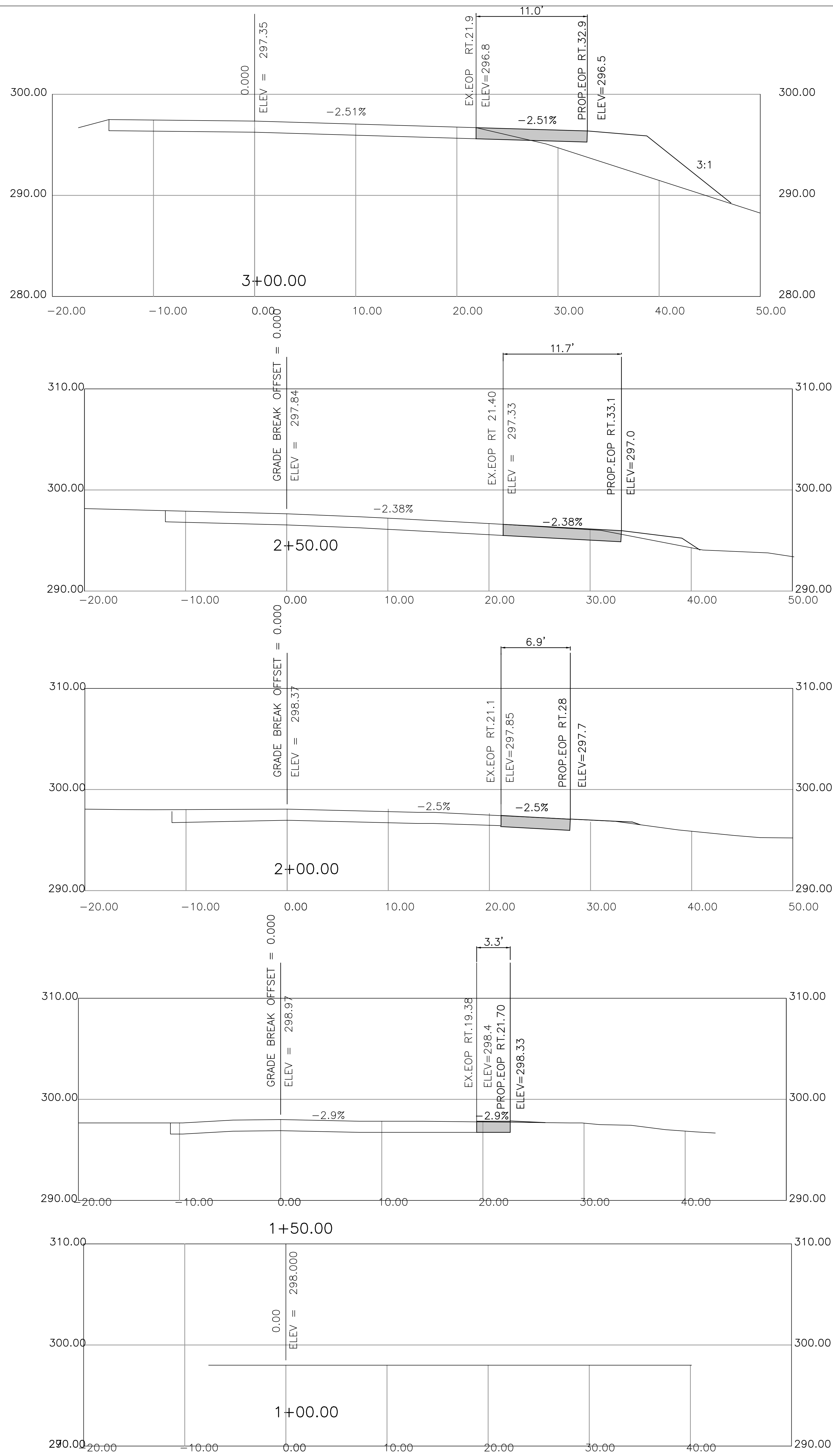
HWY 49 RIGHT TURN LANE
ROAD SECTIONS



RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

GEO SCIENCE GROUP
3800 Sherrill Road
Charlotte, NC 28217
Phone: 704.532.2003
Fax: 704.532.2001
www.geosciencegroup.com

PROJECT MANAGER	DATE
DESIGNED BY	11/27/17
CHECKED BY	
PROJECT NAME	
PROJECT NO.	
PROJECT DATE	
PROJECT LOCATION	
PROJECT STATUS	
PROJECT COMMENTS	



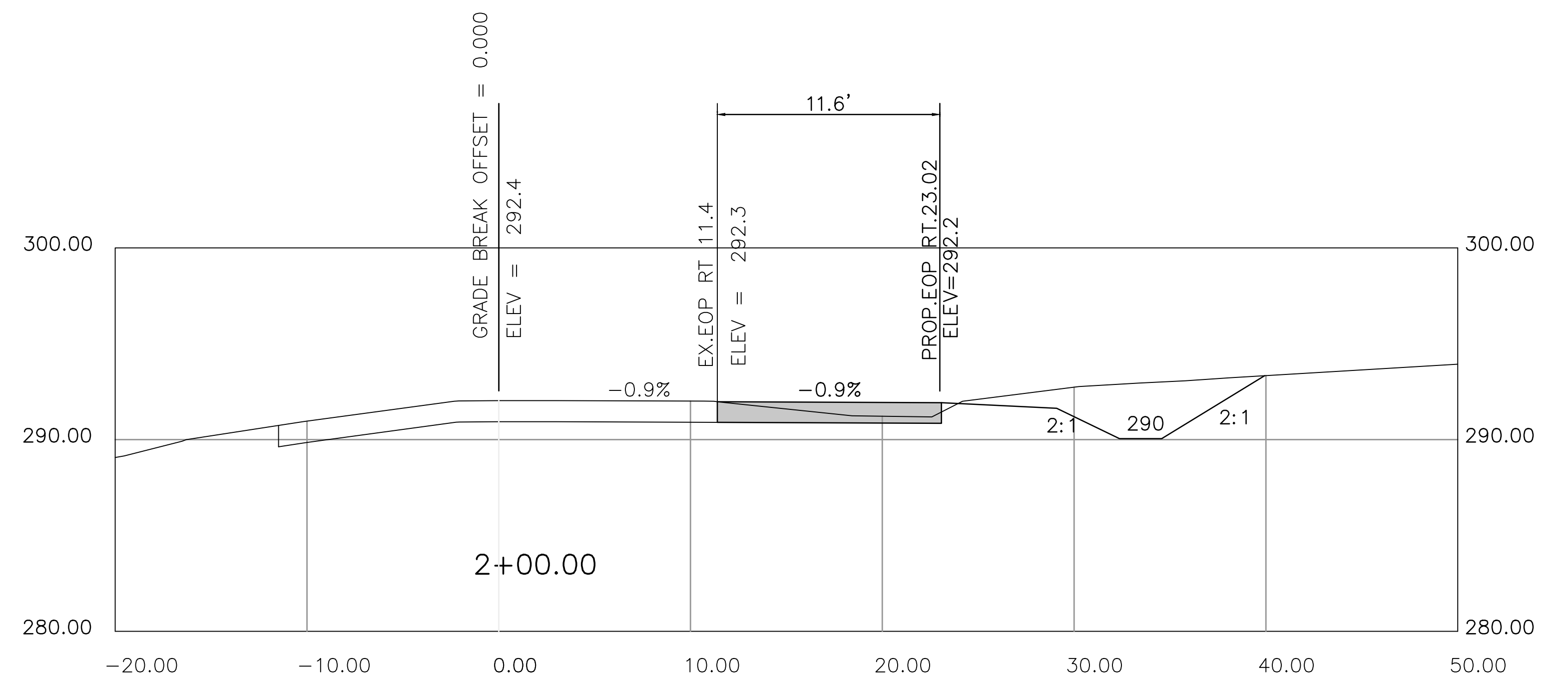
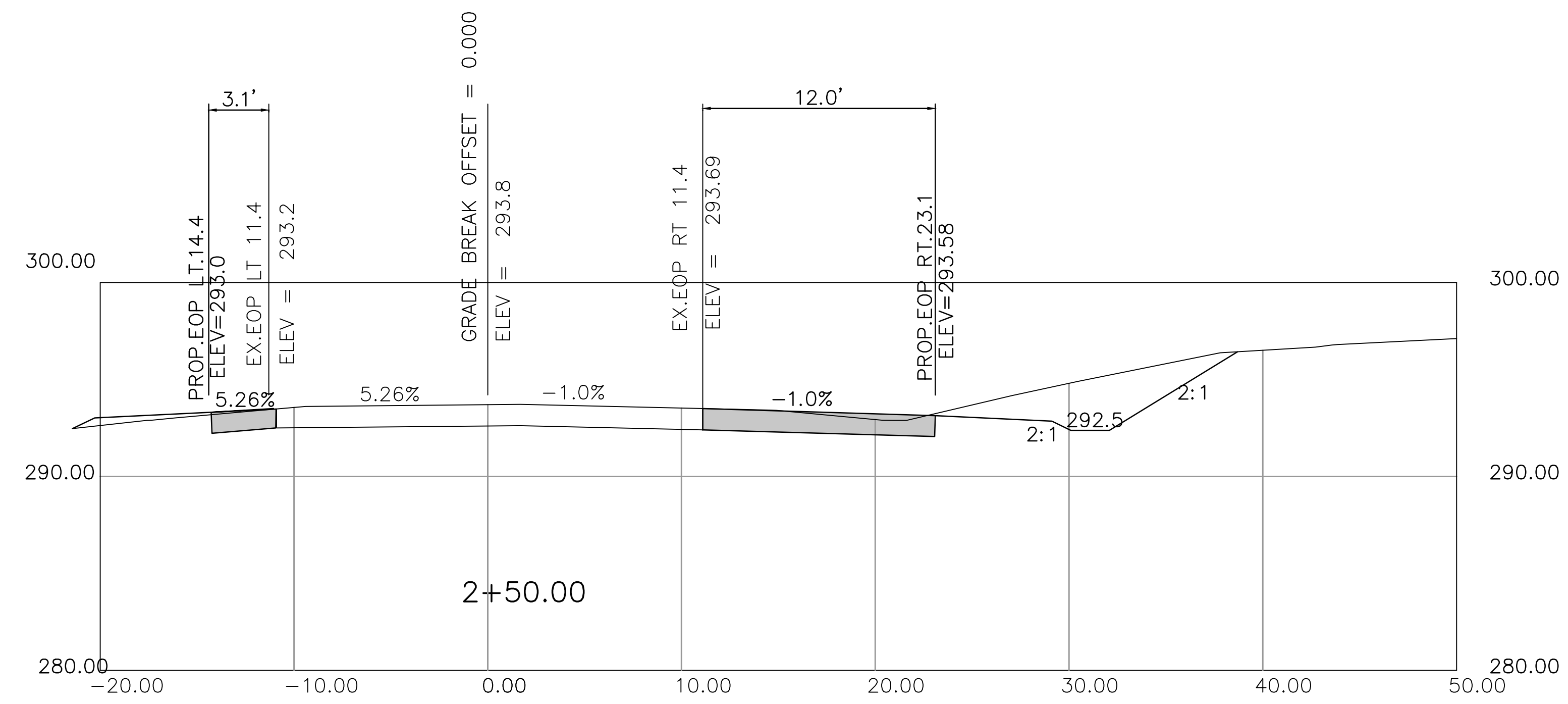
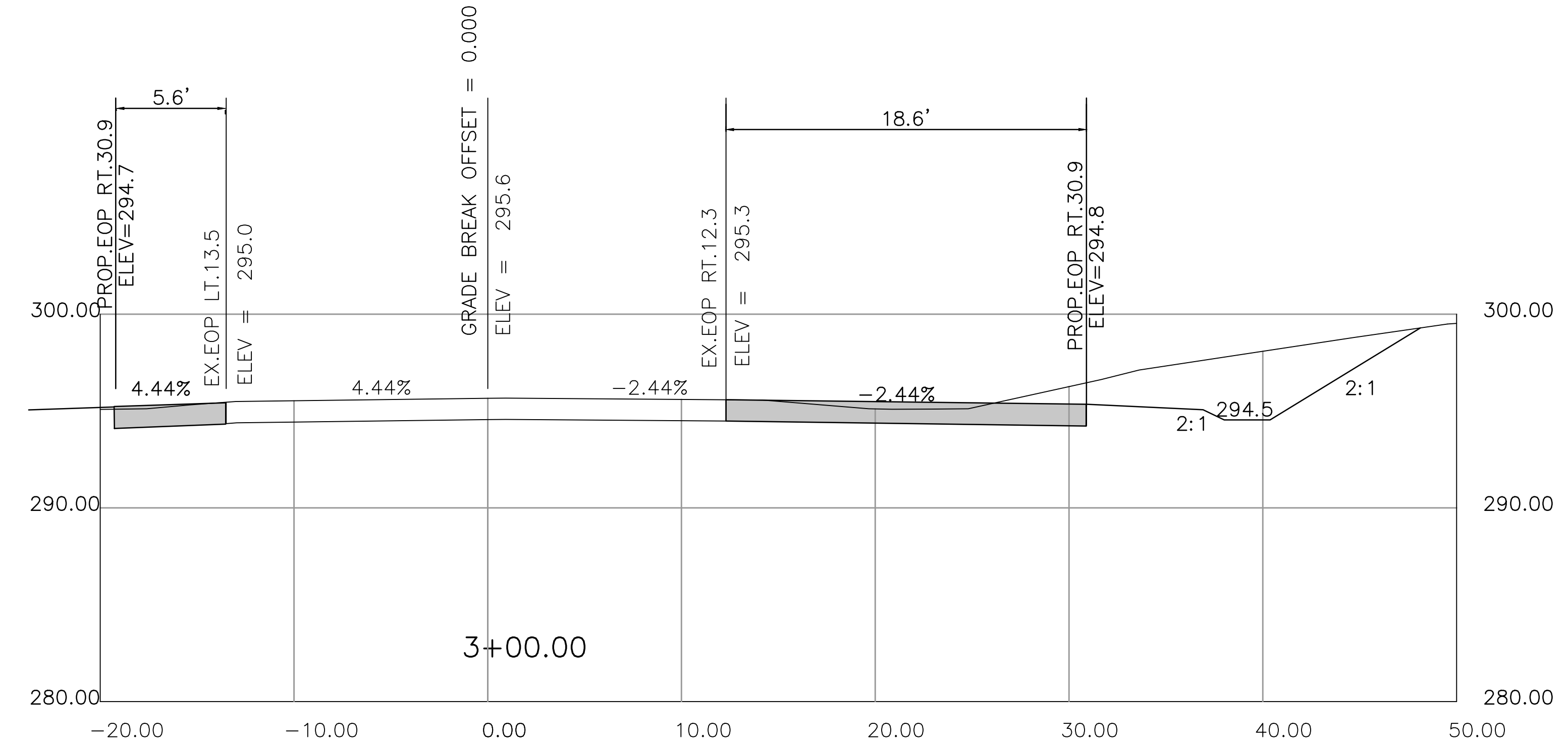
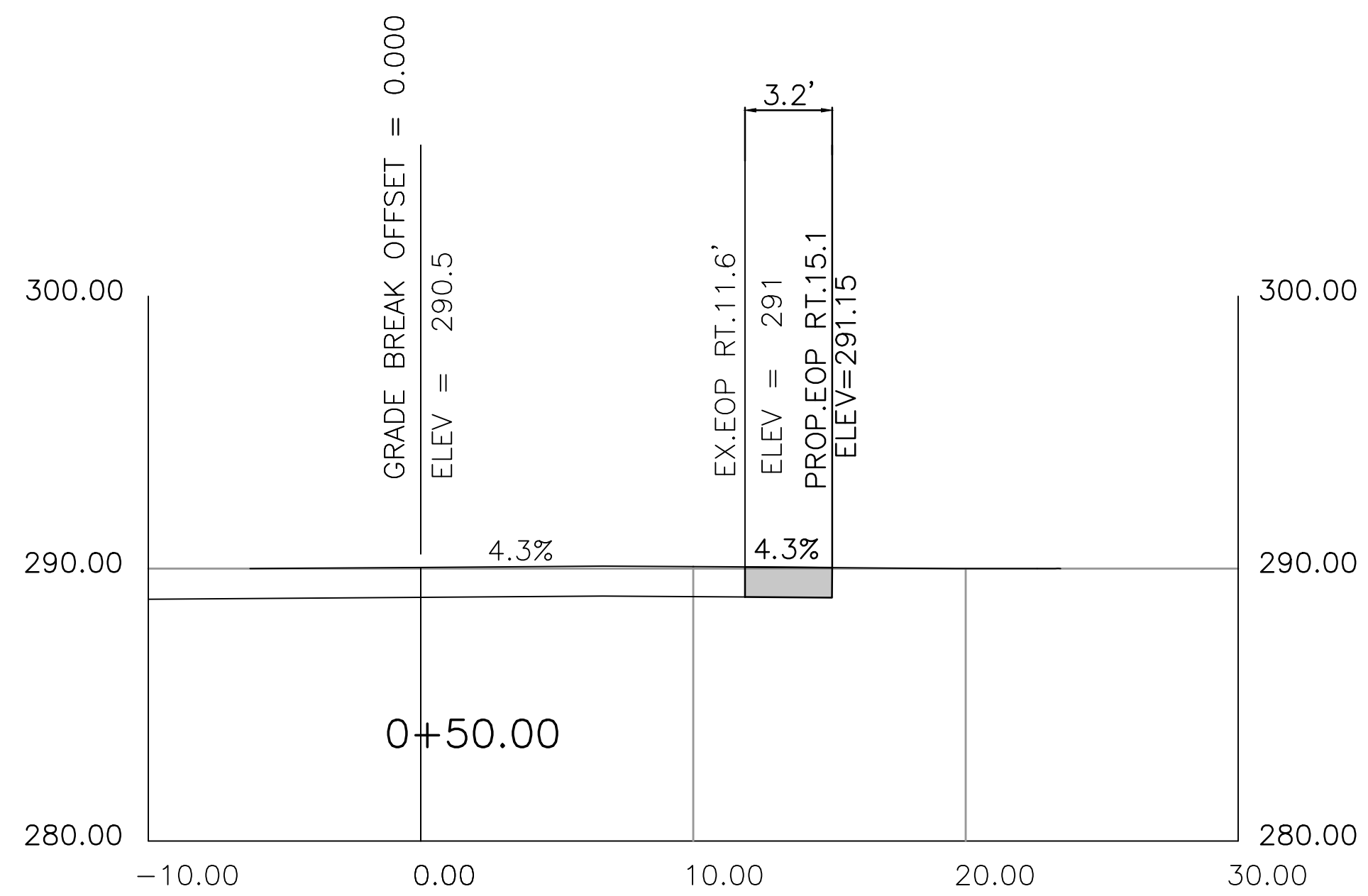
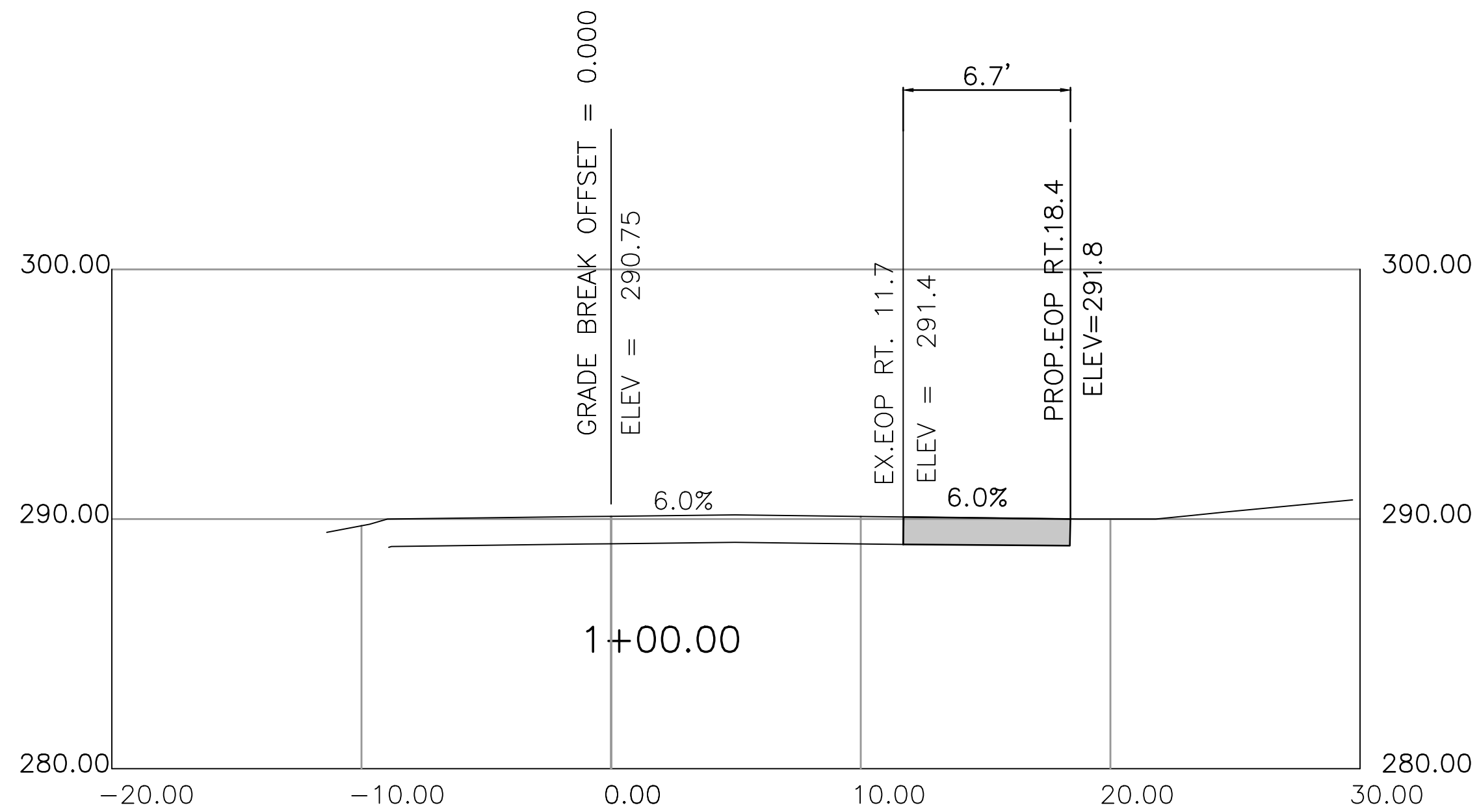
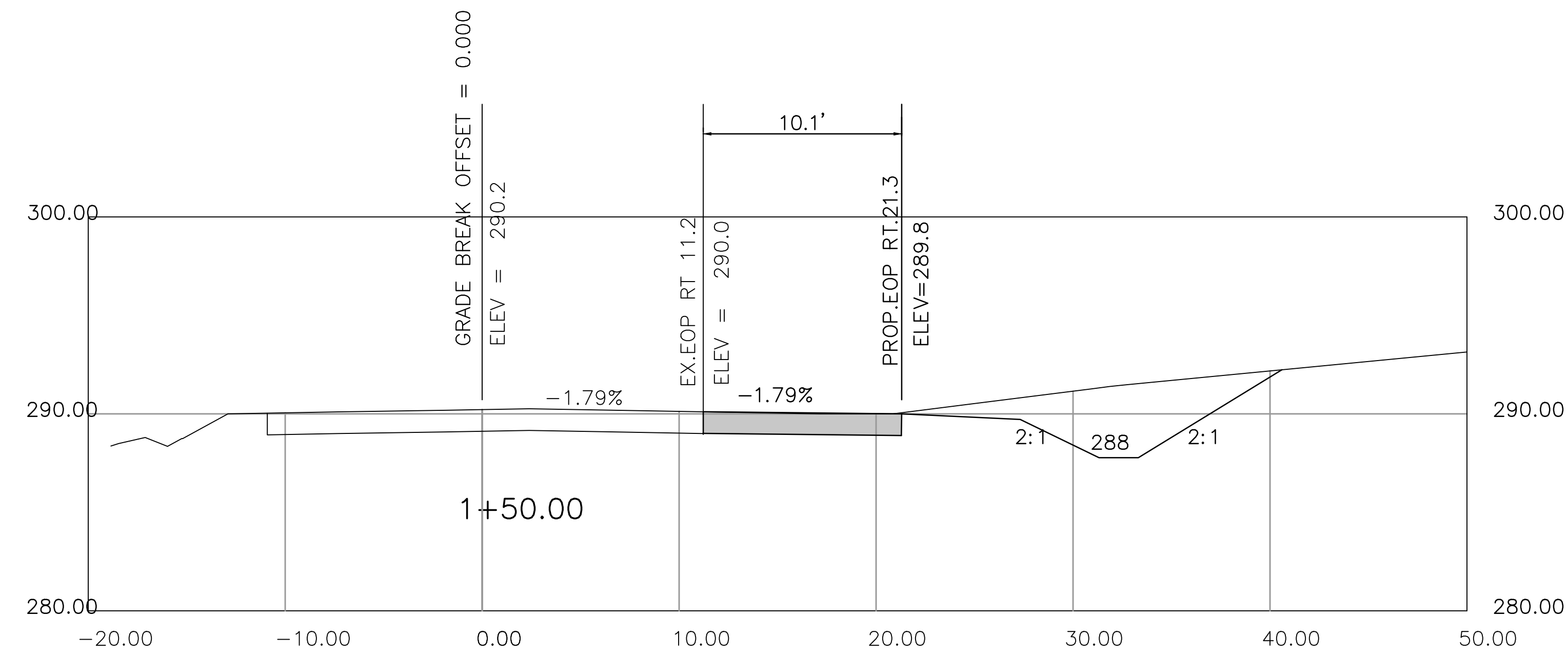
RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

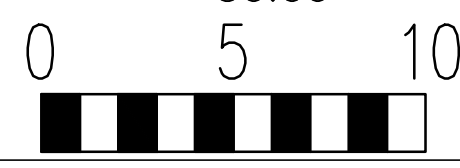
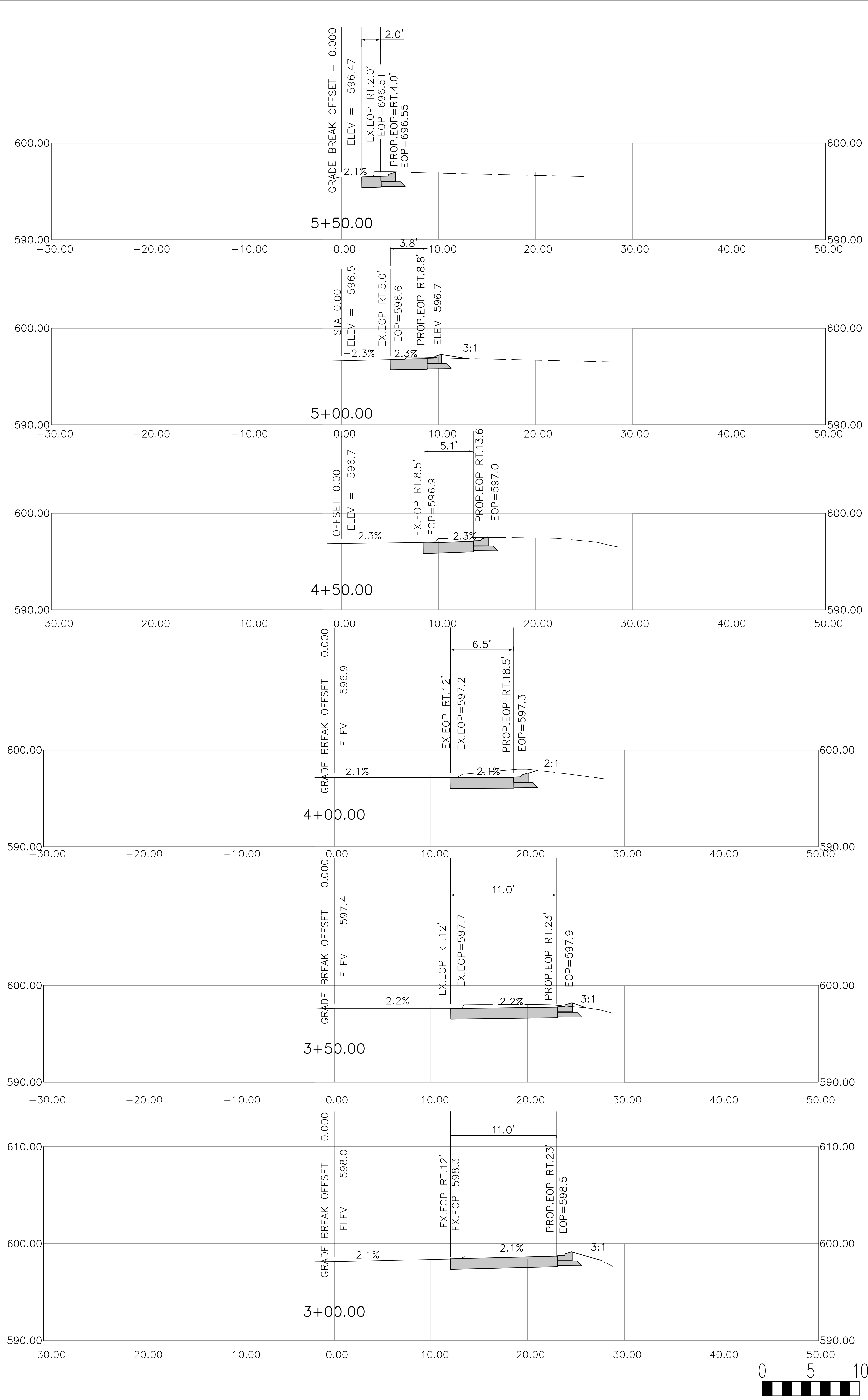
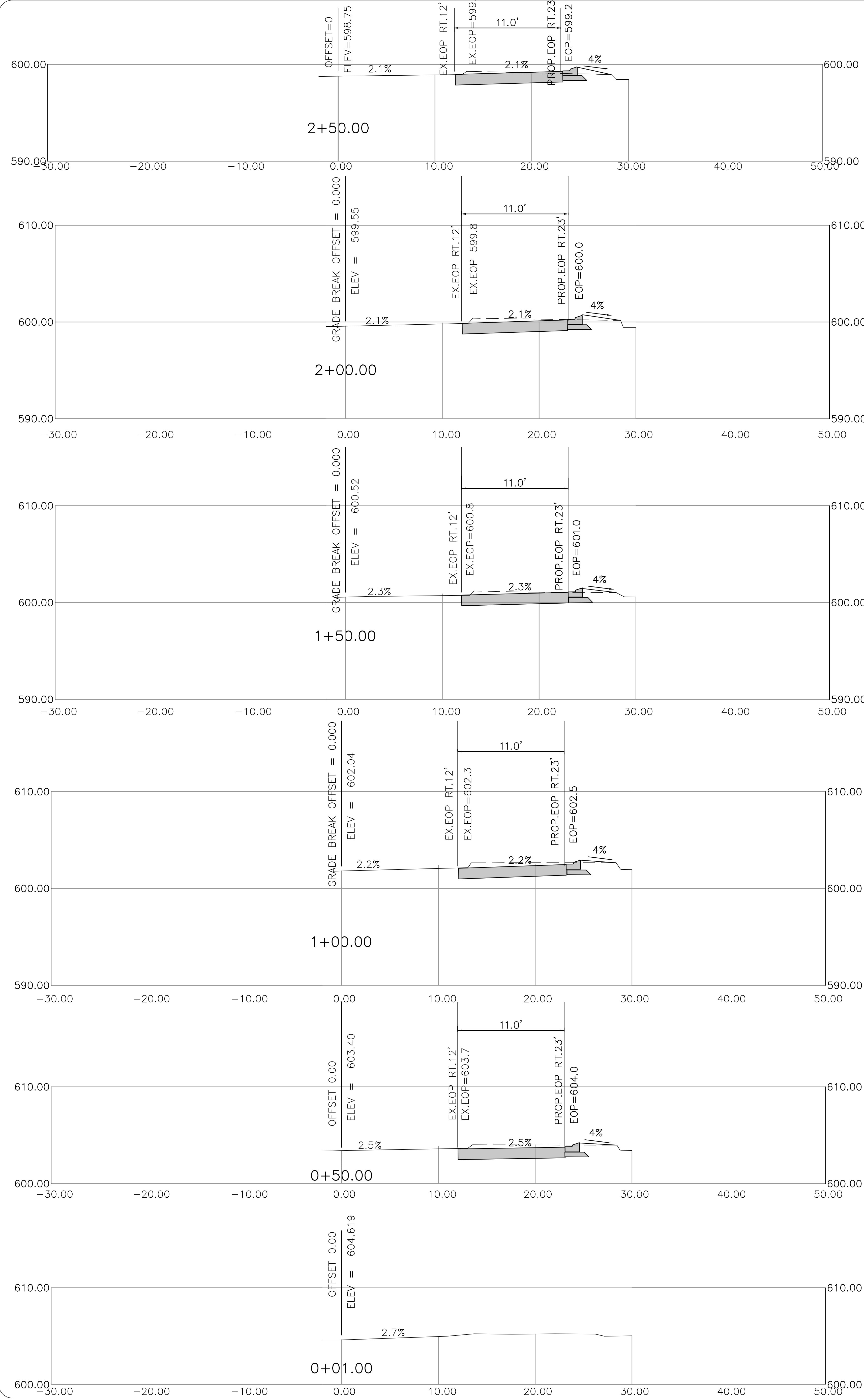


HAMILTON ROAD
ROAD SECTIONS

X18

PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGNED BY	PROJECT NAME	1	11/21/13
APPROVED BY	PROJECT NUMBER	2	1/20/14
FILE NAME	PROJECT TITLE		
	FILE DATE		

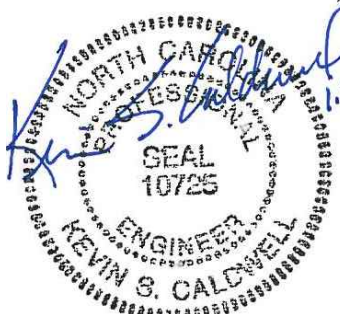




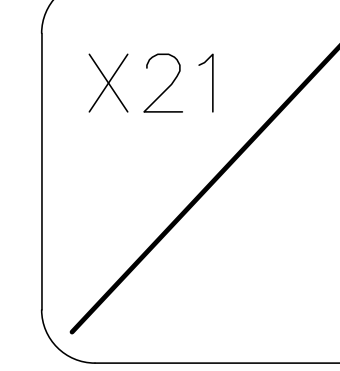
PROJECT MANAGER	DRAWING SCALE	REV.	DESCRIPTION
DESIGNED BY	PROJECT NAME	1	DESIGNED BY & CITY COMMENTS
APPROVED BY	PROJECT NUMBER	2	DESIGNED BY & CITY COMMENTS
DATE	DATE		

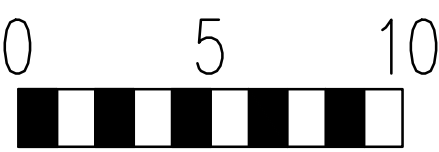
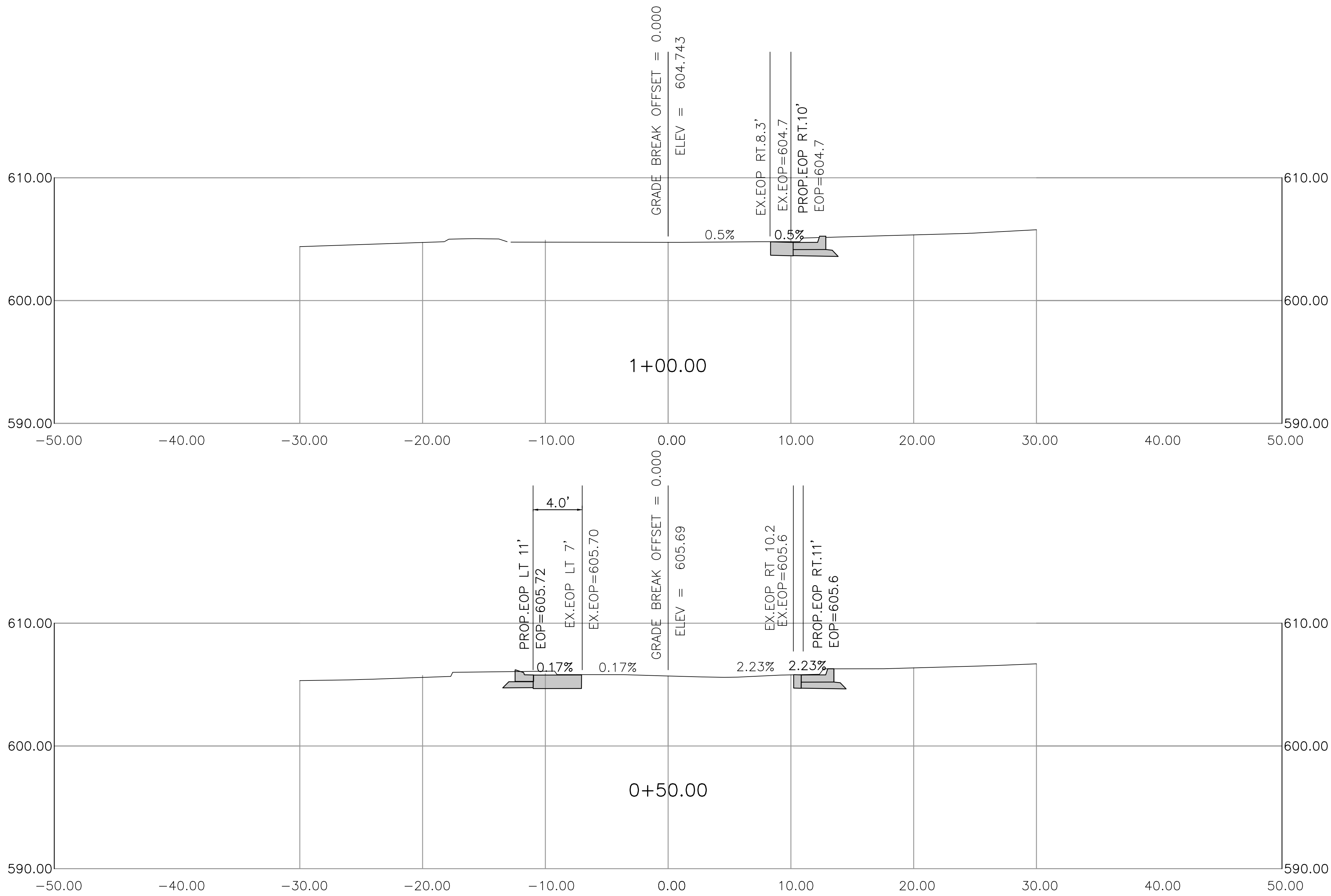
CESSCIENCE GROUP
110212
Charlotte, NC 28203
Phone: 704.555.0001
www.cessciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



LEFT TURN TO RIVERGATE
PKWY ON HWY 49 SECTIONS





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RIVERGATE PARKWAY ENTRANCE
ROAD SECTIONS



RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGN BY	PROJECT DATE	1	2022/05/10 & 25/11 COMMENTS
DRAWN BY	PROJECT NUMBER	2	2022/05/10 & 25/11 COMMENTS
CHECKED BY	SHEET		
DATE	FIGURE		
	FIGURE		

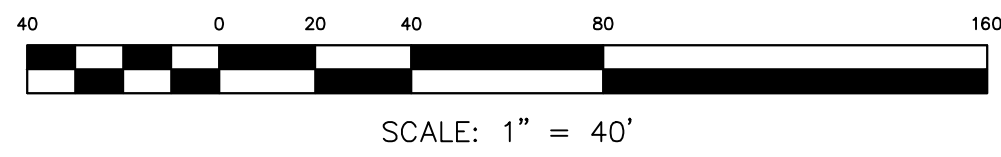
GENERAL SITE NOTES:

1. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. SITE BOUNDARY INFORMATION TAKEN FROM SURVEY BY GEOSCIENCE GROUP
3. OMIT
4. CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS, WATER LINES, STORM DRAINAGE, LIGHT POLES, POWER POLES, ETC. WITH APPROPRIATE UTILITY COMPANIES WHO WILL VERIFY LOCATION, MATERIALS AND ADEQUACY OF PROPOSED COVER AND PLACEMENT.
5. CONTRACTOR TO COORDINATE WITH OWNER AND PROJECT ENGINEER FOR EXISTING BUILDING DEMOLISHING AND ANY OTHER STRUCTURES WHICH MAY BE ON PROJECT SITE.
6. CONTRACTOR TO COORDINATE ALL CONSTRUCTION IN R/W'S WITH N.C.D.O.T. AND CITY OF CHARLOTTE.
7. ALL CONSTRUCTION TO CONFORM TO THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL DETAILS AND SPECIFICATIONS.
8. ALL DRAINAGE FACILITIES, CURB CUTS AND CURB RAMPS MUST BE CONSTRUCTED IN COMPLIANCE WITH THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL, AND COORDINATED WITH ENGINEERING AND PROPERTY MANAGEMENT.

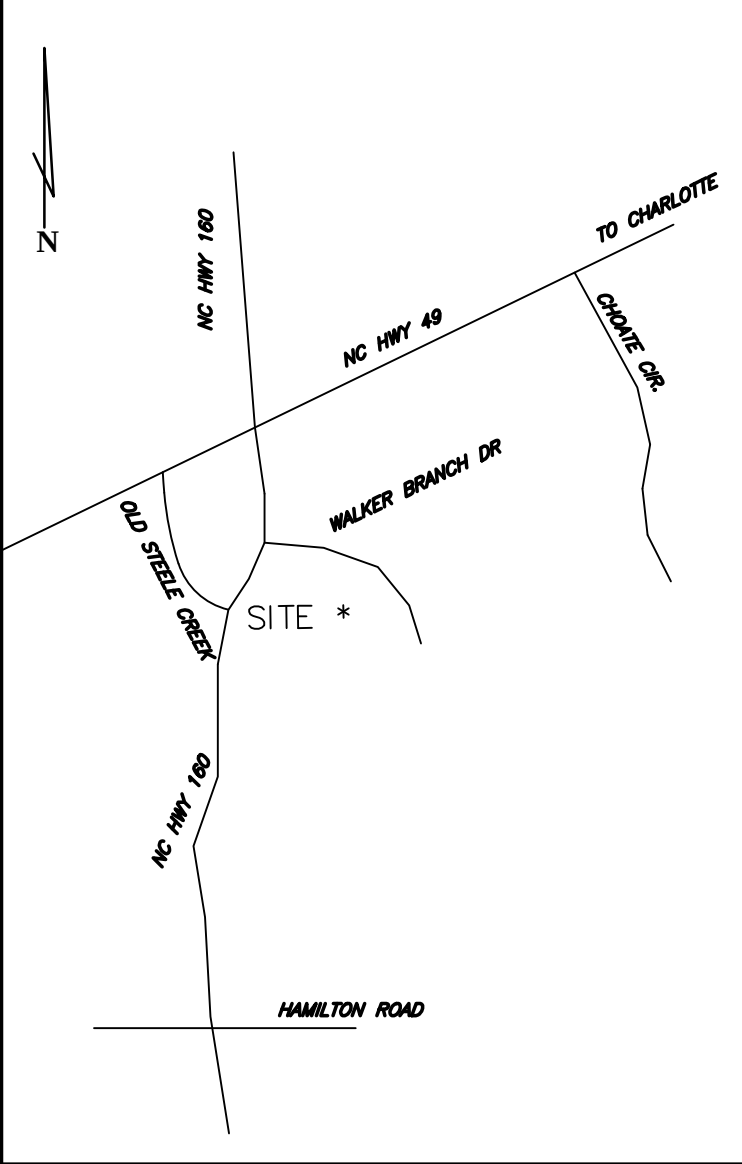
9. OMIT
10. OMIT
11. A RIGHT OF WAY ENCROACHMENT AGREEMENT IS REQUIRED FOR THE INSTALLATION OF ALL NON-STANDARD ITEMS (IRRIGATION SYSTEMS, DECORATIVE CONCRETE PAVEMENT, BRICK PAVERS, ETC.) WITHIN A PROPOSED/EXISTING CITY MAINTAINED STREET RIGHT OF WAY BY A PRIVATE INDIVIDUAL, GROUP, BUSINESS, OR HOMEOWNER'S/BUSINESS ASSOCIATION. AN ENCROACHMENT AGREEMENT MUST BE APPROVED BY CDOT PRIOR TO THE CONSTRUCTION/INSTALLATION OF THE NON-STANDARD ITEMS. CONTACT CDOT FOR ADDITIONAL INFORMATION CONCERNING COST, SUBMITTAL AND LIABILITY INSURANCE COVERAGE REQUIREMENTS.
12. TREE PROTECTION BARRICADES MUST MEET OR EXCEED TREE ORDINANCE GUIDELINES STANDARDS.
13. TREE BARRICADES MUST BE INSTALLED BEFORE ANY DEMOLITION/CLEARING/GRADING/CONSTRUCTION, AND NOT REMOVED UNTIL AFTER FINAL INSPECTION BY URBAN FORESTRY STAFF.
14. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, BURIAL PITS, TRENCHING OR OTHER LAND DISTURBING ACTIVITY ALLOWED IN TREE SAVE AREAS.
15. VIOLATIONS OF THE TREE PROTECTION REQUIREMENTS ARE SUBJECT TO FINES, AND/OR IMMEDIATE CORRECTIVE ACTION/MITIGATION.
16. URBAN FORESTER MUST BE NOTIFIED OF THE PRE-CONSTRUCTION MEETING.
17. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR.

18. ALL ROAD IMPROVEMENTS ARE TO BE COORDINATED WITH THE NCDOT PRIOR TO CONSTRUCTION
19. OMIT
20. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
21. OMIT
22. IN ROLLING AND HILLY TERRAINS, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR AND BASED ON FIELD CONDITIONS.
23. APPROVAL OF THIS SITE IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
24. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE IN THE CURB.
25. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.
26. CURB AND GUTTER SHOWN ON PLANS CASCADE POINTE MAY BE ADJUSTED BASED UPON FIELD STAKING BY CITY ENGINEERING. ASSOCIATED STORM DRAINAGE MAY ALSO REQUIRE MODIFICATIONS BASED UPON FIELD CONDITIONS.

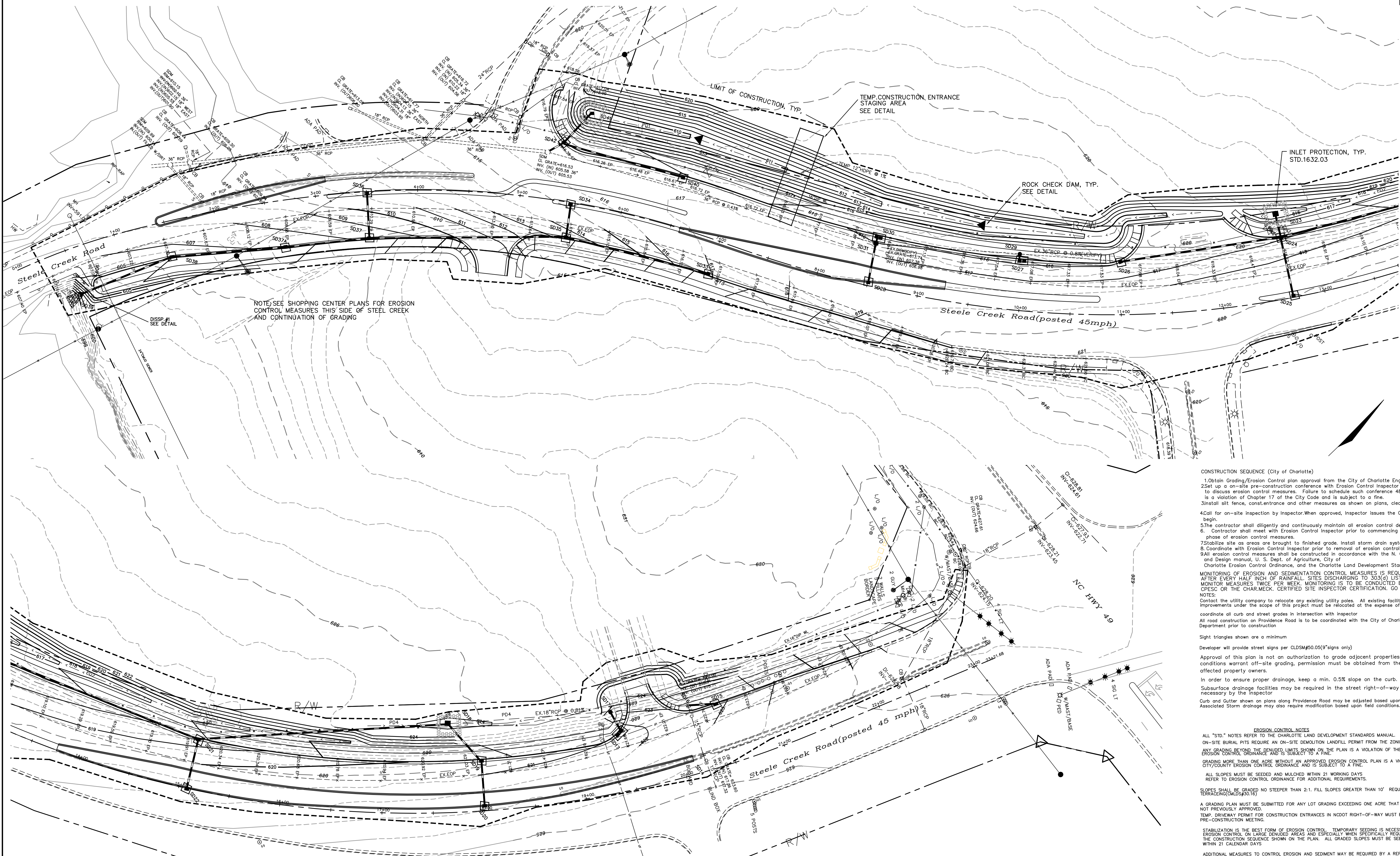
27. THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM WATER CONVEYANCE AND ANY STRUCTURES AND/OR OBSTRUCTION TO STORM WATER FLOW IS PROHIBITED.
28. THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.
29. "AS-BUILT" DRAWINGS AND PLANS OF THE STORM DRAINAGE SYSTEM, INCLUDING DESIGNED DITCHES, MUST BE SUBMITTED PRIOR TO SUBDIVISION FINAL INSPECTION TO THE CITY/COUNTY ENGINEERING DEPARTMENT IN ACCORDANCE WITH THE CITY/COUNTY SUBDIVISION ORDINANCE.
30. THE DEVELOPER SHALL CONTACT THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (GUS JORDI, 704-336-7086) TO IDENTIFY ANY CONFLICTS WITH TRAFFIC SIGNALIZATION EQUIPMENT. 60-90 DAYS WILL BE REQUIRED TO COORDINATE RELOCATION. DEVELOPER SHALL BE RESPONSIBLE FOR ALL RELATED RELOCATION COST AND/OR ANY REPAIR COST CAUSED BY THE CONTRACTOR/DEVELOPER.



DENUDED AREA=6.2 AC
SOILS:MECKLENBURG



VICINITY MAP
NOT TO SCALE



CONSTRUCTION SEQUENCE (City of Charlotte)

1. Obtain Grading/Erosion Control plan approval from the City of Charlotte Engineering Department.
 2. Set up a on-site pre-construction conference with Erosion Control Inspector of the City Engineering Department to discuss erosion control measures. Failure to schedule such conference 48 hours prior to any land-disturbing activity is a violation of Chapter 17 of the City Code and is subject to a fine.
 3. Install silt fence, construction and other measures as shown on plans, clearing only as necessary to install these devices
 4. Call for on-site inspection by Inspector. When approved, Inspector issues the Grading Permit and clearing and grubbing may begin.
 5. The contractor shall diligently and continuously maintain all erosion control devices and structures.
 6. Contractor shall meet with Erosion Control Inspector prior to commencing with each phase of erosion control measures.
 7. Stabilize site as areas are brought to finished grade. Install storm drain system.
 8. Coordinate with Erosion Control Inspector prior to removal of erosion control measures.
 9. All erosion control measures shall be constructed in accordance with the N. C. Erosion and Sediment Control Planning and Design manual, S. Dept. of Agriculture, City of Charlotte Erosion Control Ordinance, and the Charlotte Land Development Standards.
- MONITORING OF EROSION AND SEDIMENTATION CONTROL MEASURES IS REQUIRED AT LEAST ONCE A WEEK OR AFTER EVERY HALF INCH OF RAINFALL. SITES DISCHARGING TO 30X(4) LISTED STREAMS ARE REQUIRED TO MONITOR MEASURES TWICE PER WEEK. MONITORING IS TO BE CONDUCTED BY A PERSON THAT HOLDS EITHER A CPESC OR THE CHARMECK CERTIFIED SITE INSPECTOR CERTIFICATION. GO TO: CMCS.CHARLOTTE.ORG FOR MORE DETAILS.
- NOTES:
- coordinate all curb and street grades in intersection with inspector
- All road construction on Providence Road is to be coordinated with the City of Charlotte Engineering Department prior to construction.
- Sight triangles shown are a minimum.
- Developer will provide street signs per CLDSM §50.05(9) signs only)
- Approval of this plan is not an authorization to grade adjacent properties. When field conditions warrant off-site grading, permission must be obtained from the affected property owners.
- In order to ensure proper drainage, keep a min. 0.5% slope on the curb.
- Subsurface drainage facilities may be required in the street right-of-way if deemed necessary by the Inspector.
- Curb and gutter shown on plans along Providence Road may be adjusted based upon field staking by City Engineering. Associated Storm drainage may also require modification based upon field conditions.

EROSION CONTROL NOTES

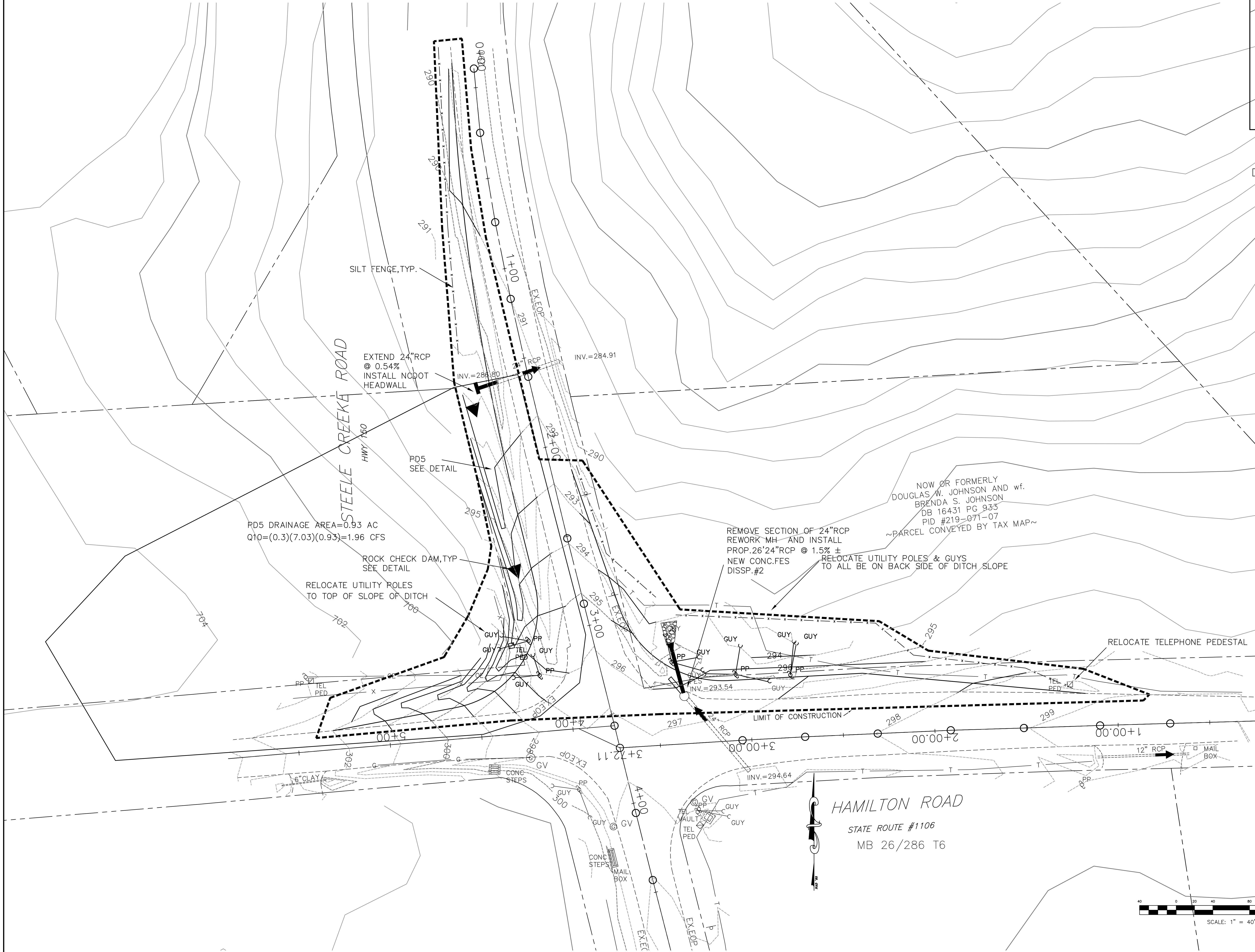
- ALL "STD." NOTES REFER TO THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.
- ON-SITE BURIAL PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
- ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- ALL SLOPES MUST BE SEEDED AND MULCHED WITHIN 21 WORKING DAYS.
- REFER TO EROSION CONTROL ORDINANCE FOR ADDITIONAL REQUIREMENTS.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADDITIONAL TERRACING (CLDSM §50.16).
- A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
- TEMP. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT-OF-WAY MUST BE PRESENTED AT THE PRE-CONSTRUCTION MEETING.
- STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE SHOWN ON THE PLAN. ALL GRADED SLOPES MUST BE SEEDED AND MULCHED WITHIN 21 CALENDAR DAYS.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADDITIONAL TERRACING (CLDSM §50.16).
- THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.
- THE MECK. CO. ENGINEERING DEPARTMENT HAS NOT REVIEWED THE STRUCTURAL STABILITY OF ANY RETAINING WALLS ON THE SITE AND DOES NOT ASSUME RESPONSIBILITY FOR THEM.

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



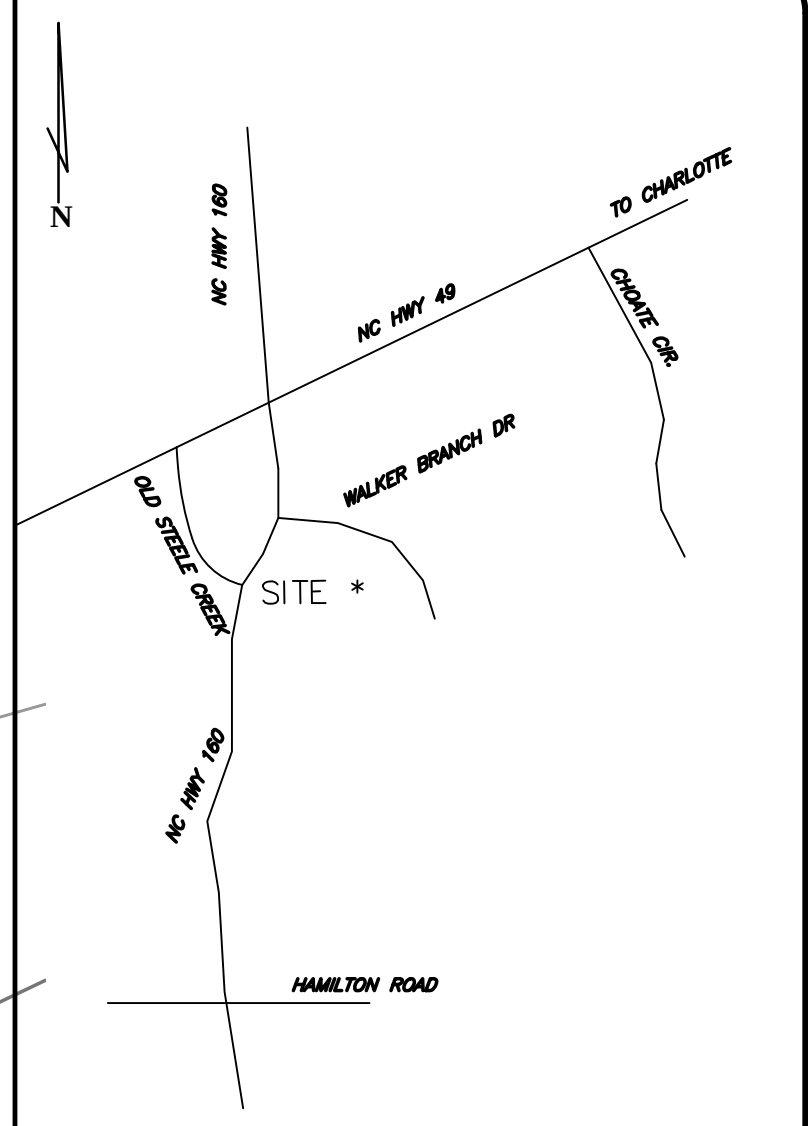
STEELE CREEK ROAD
GRADING, DRAINAGE AND EC

C2.1



VICINITY MAP
NOT TO SCALE

DEUNDED AREA = 0.4 AC



PROJECT MANAGER	DATE	REV.	DESCRIPTION
DESIGNER	11/21/13	1	DESIGN & DET. COMMENTS
CHECKER	12/14	2	COORDINATE & DET. COMMENTS
APPROVED BY			
DATE			

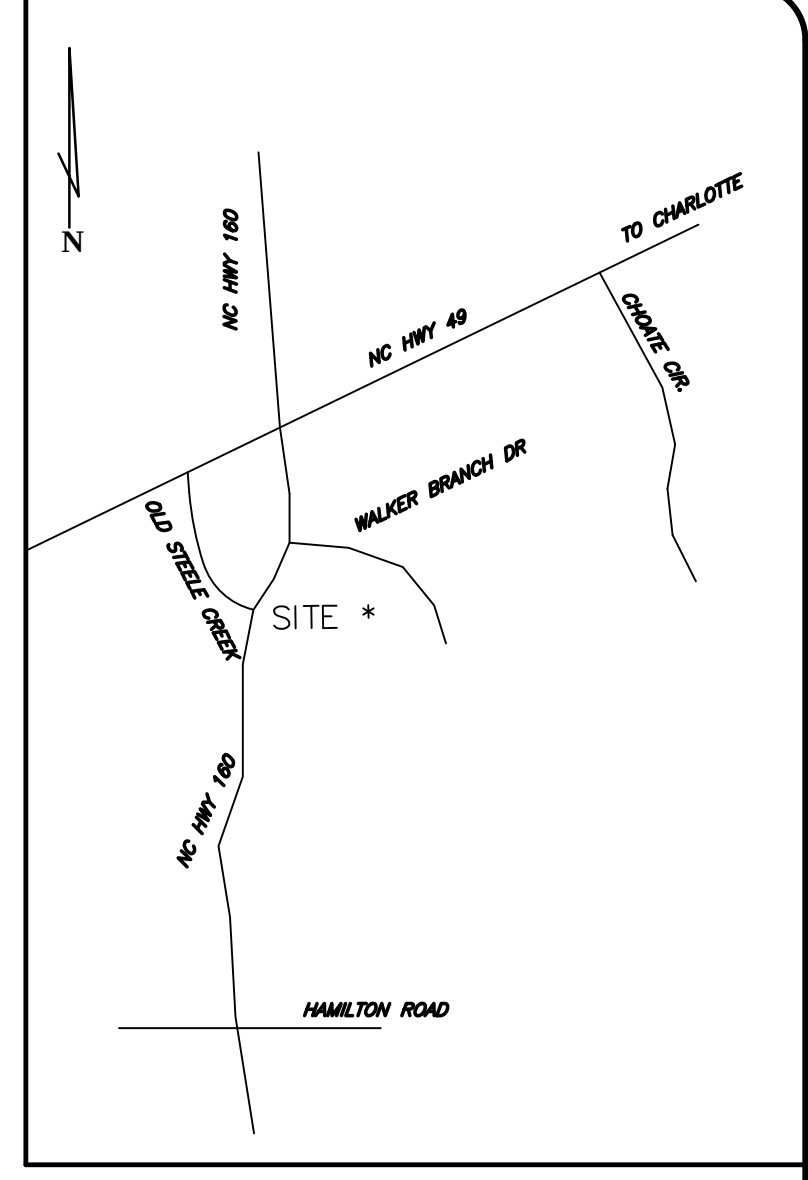
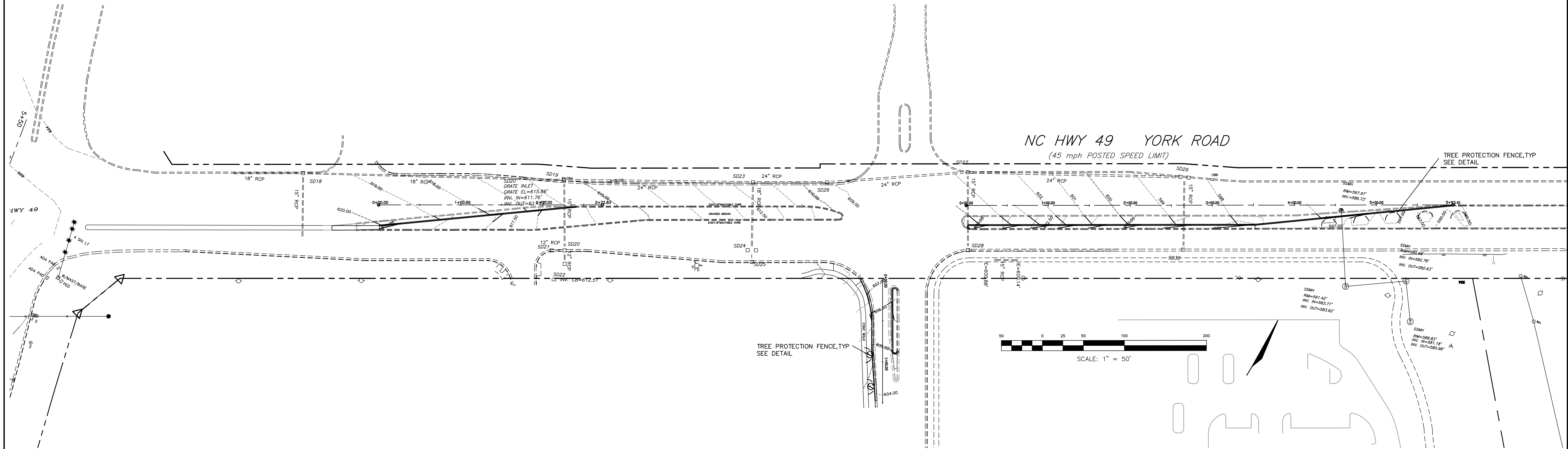
GEOSCIENCE GROUP
Charlotte, NC 28217
Phone: 704.535.2801
Fax: 704.535.2801
www.geosciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



HAMILTON AND STEELE CREEK RD
GRADING, DRAINAGE AND EC

C2.2



VICINITY MAP
NOT TO SCALE

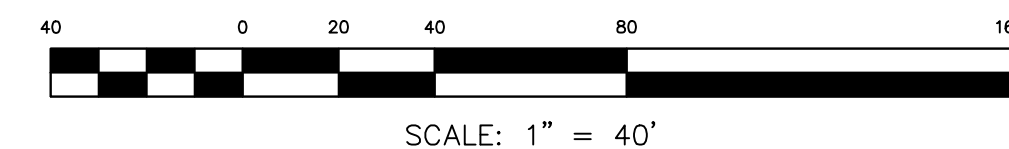
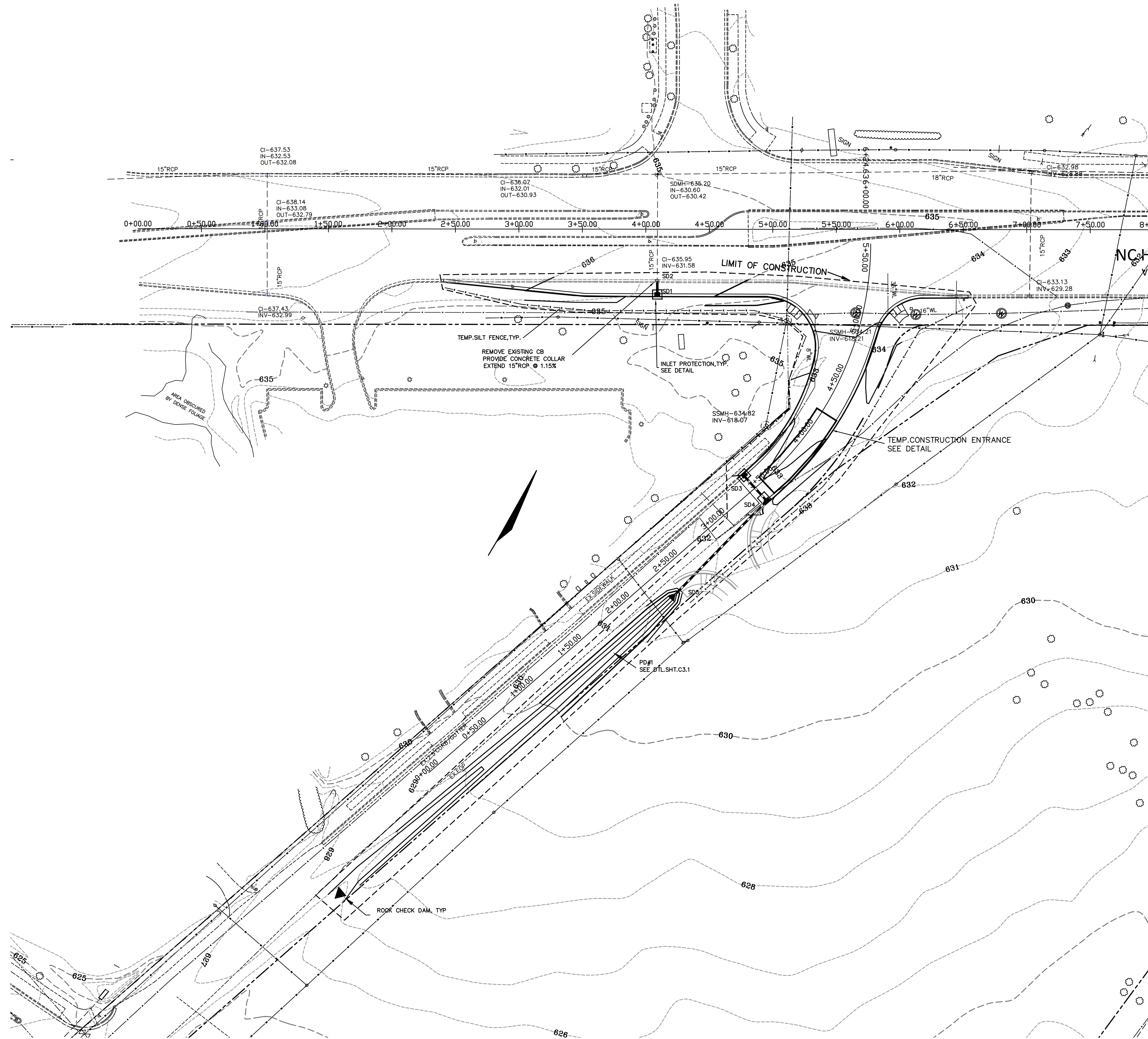
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DESIGNED BY	PROJECT DATE	1	11/21/25
APPROVED BY	PROJECT NUMBER		
DATE	PHASE		
	POST DATE		

CESSSCIENCE GROUP
10000 W. Highway 101
Charlotte, NC 28217
Phone: 704.535.2001
www.cesssciencegroup.com

RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES

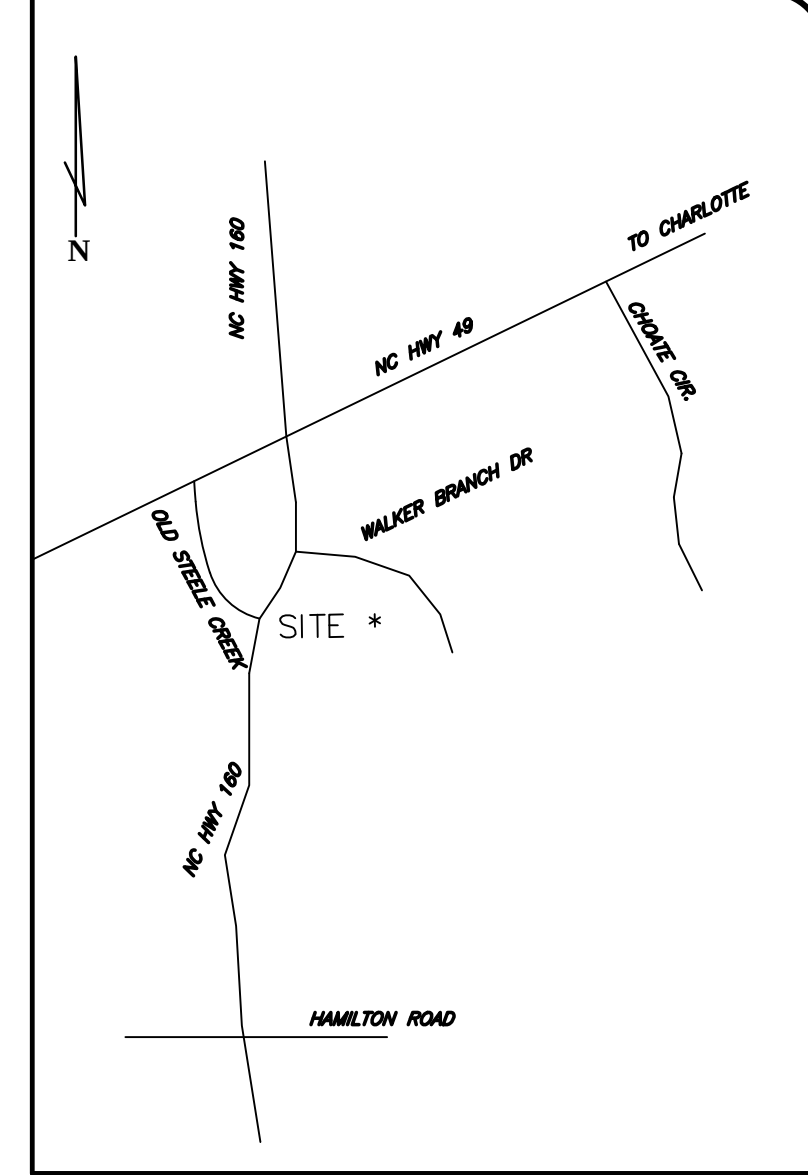


HWY 49 LEFT TURN LANES
GRADING AND DRAINAGE



DENUDED AREA=1.0 AC

VICINITY MAP
NOT TO SCALE



OLD STEELE CREEK AND HWY 49
GRADING & DRAINAGE & EC

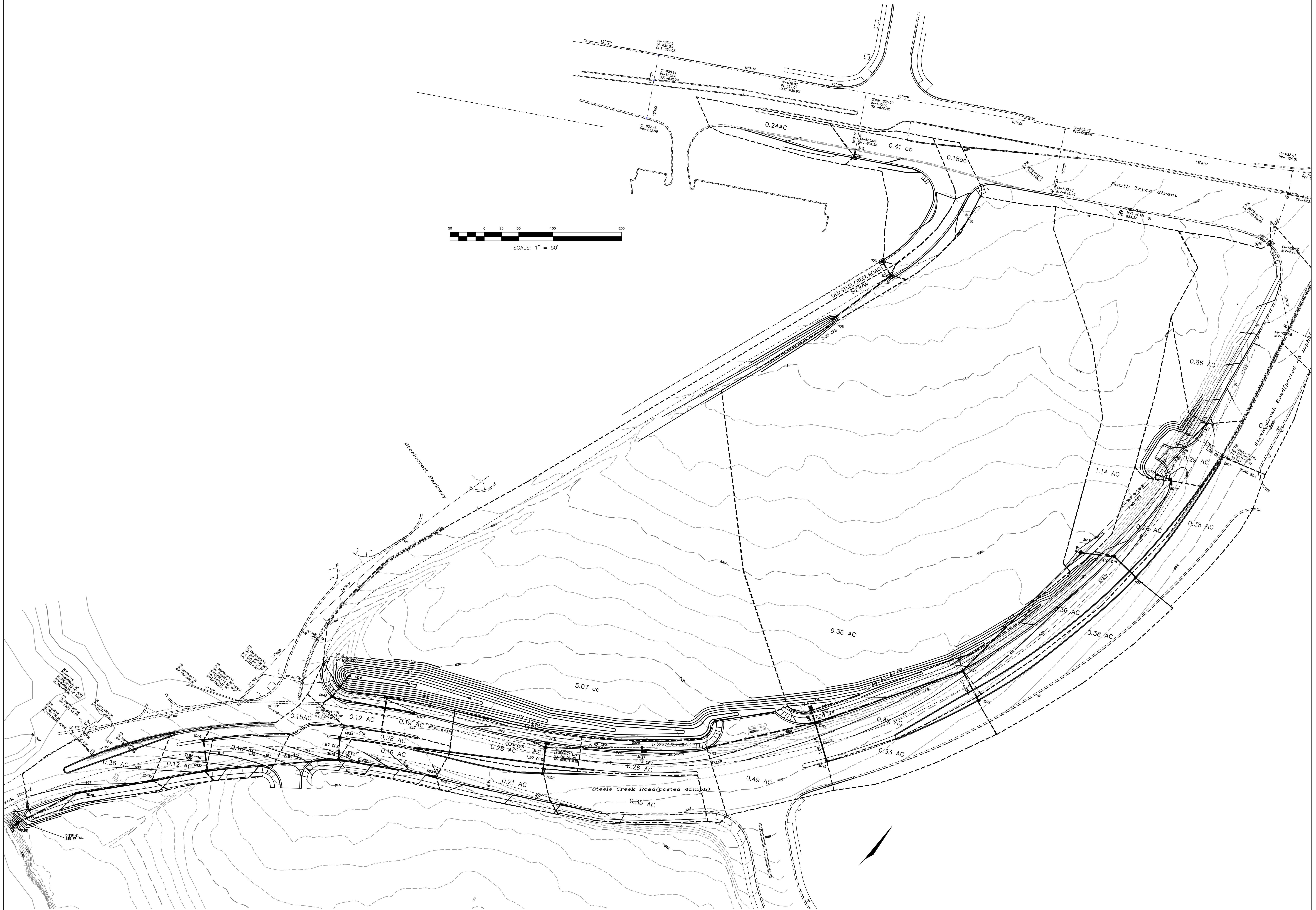
C2.4



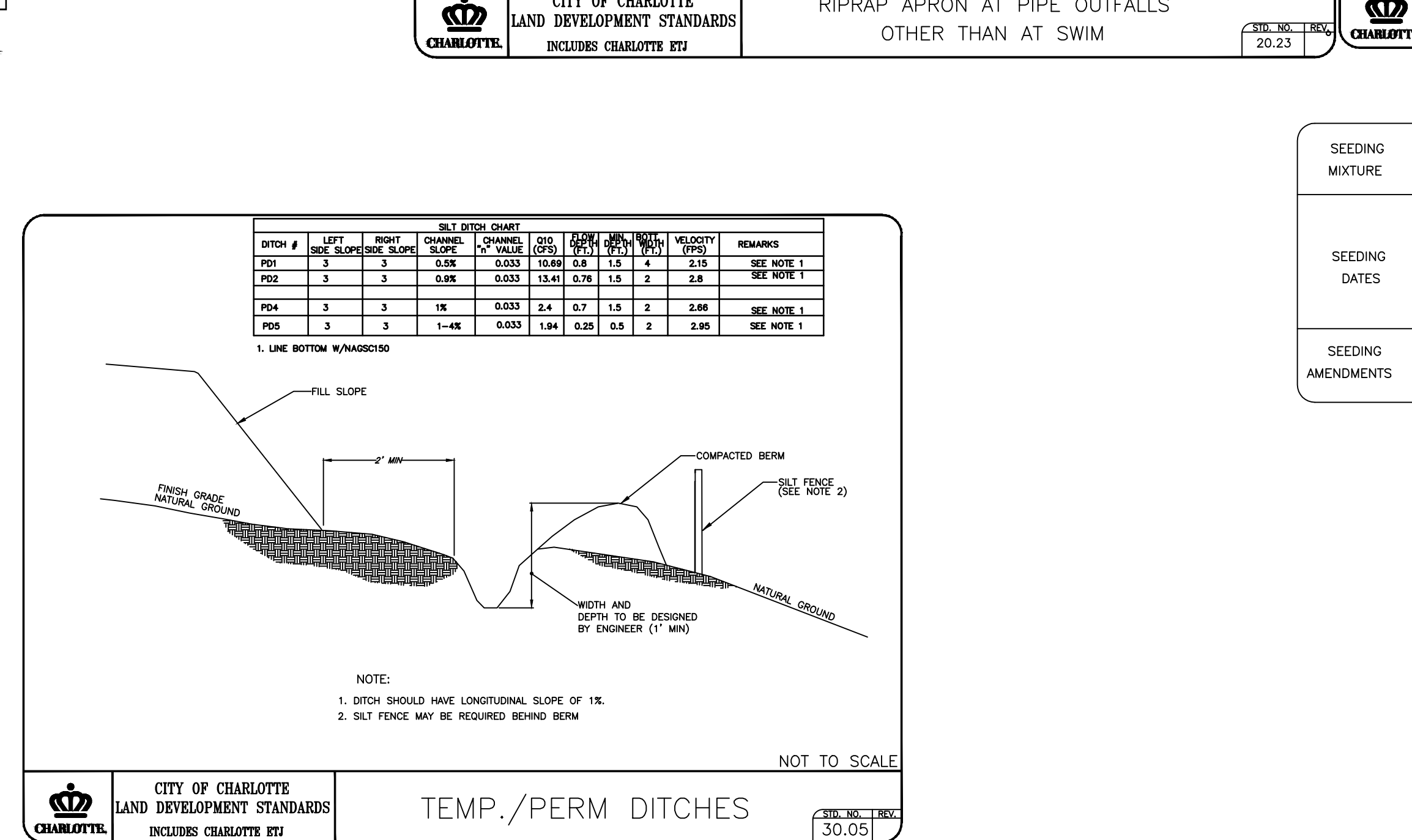
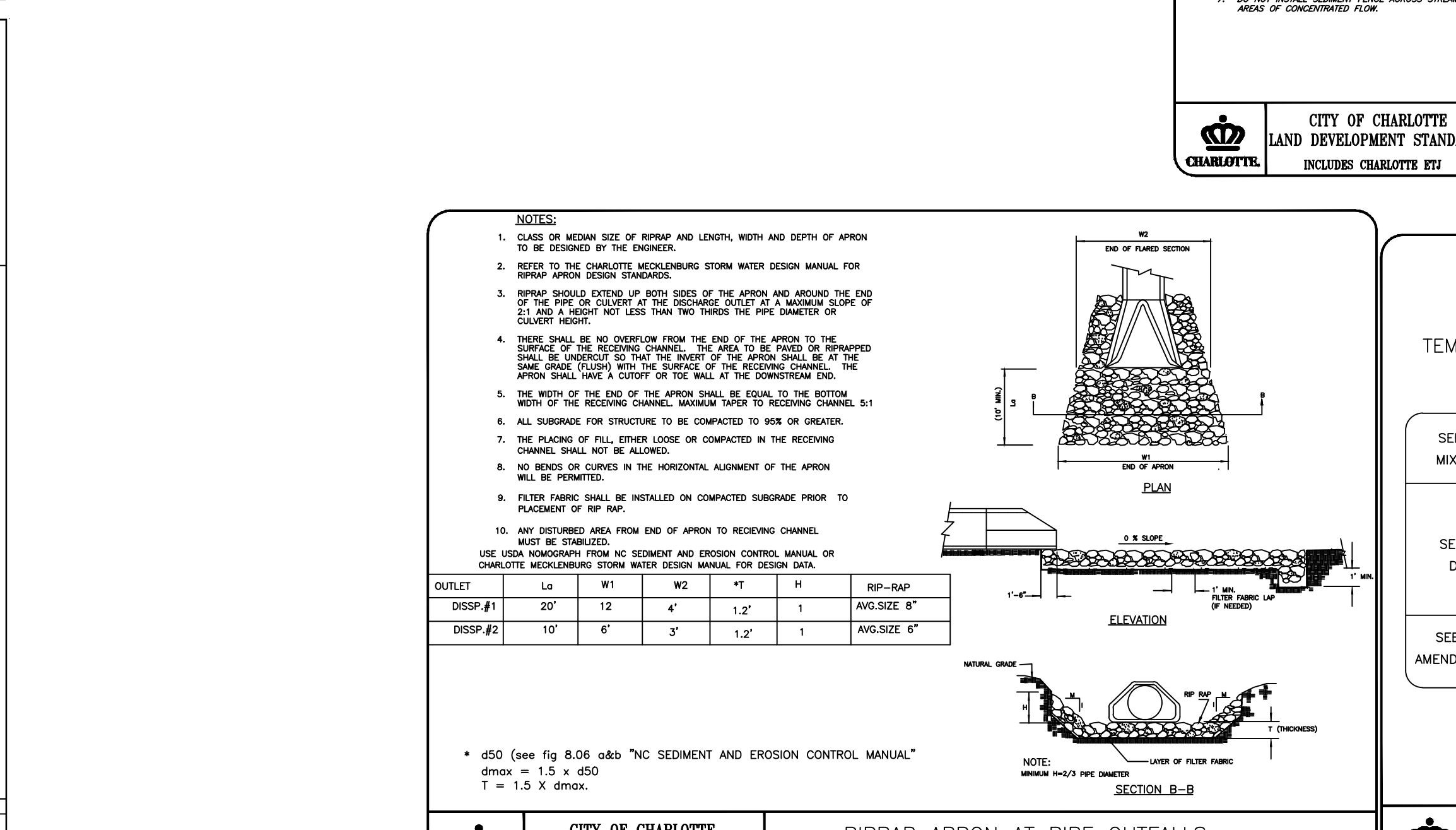
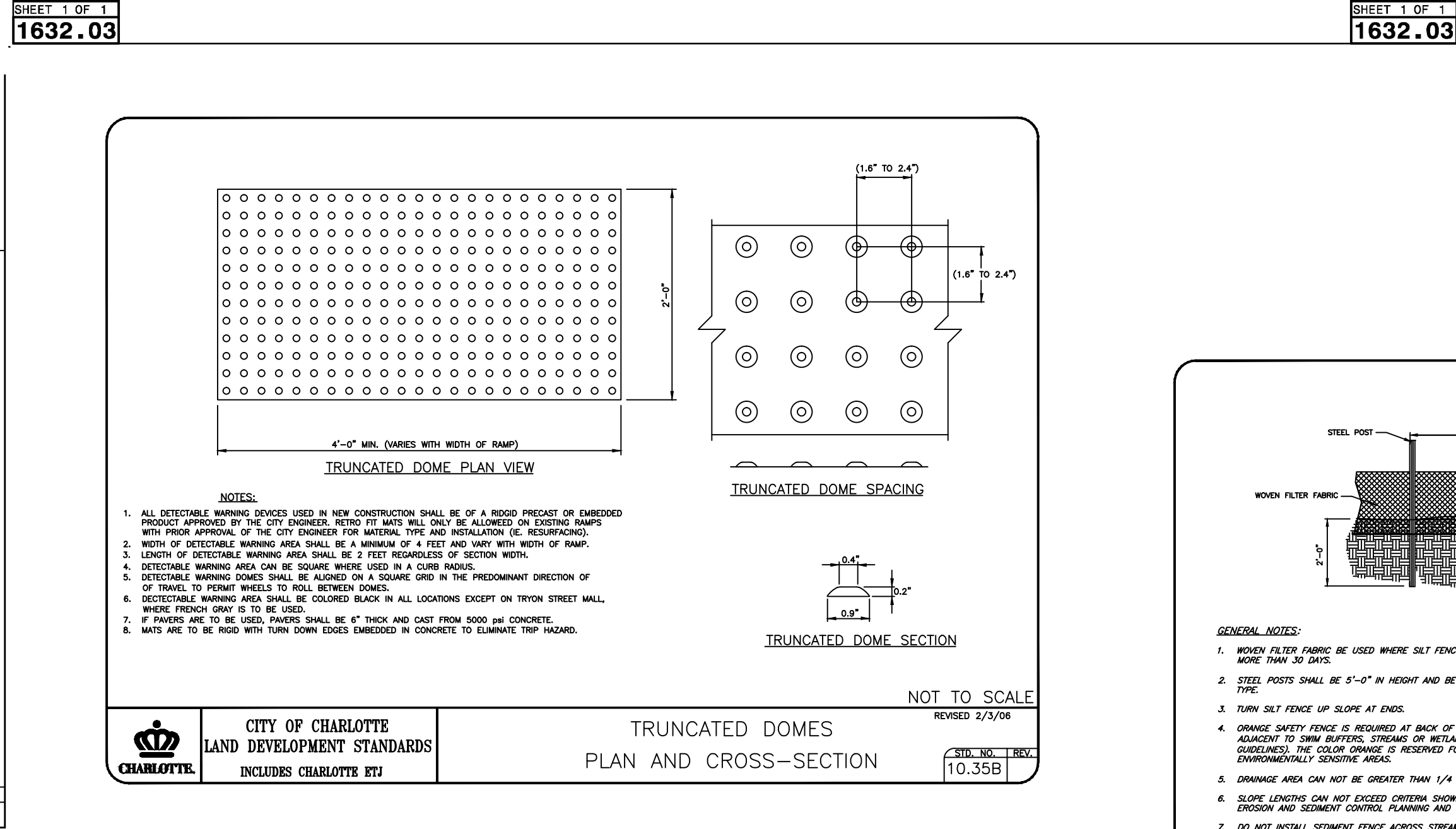
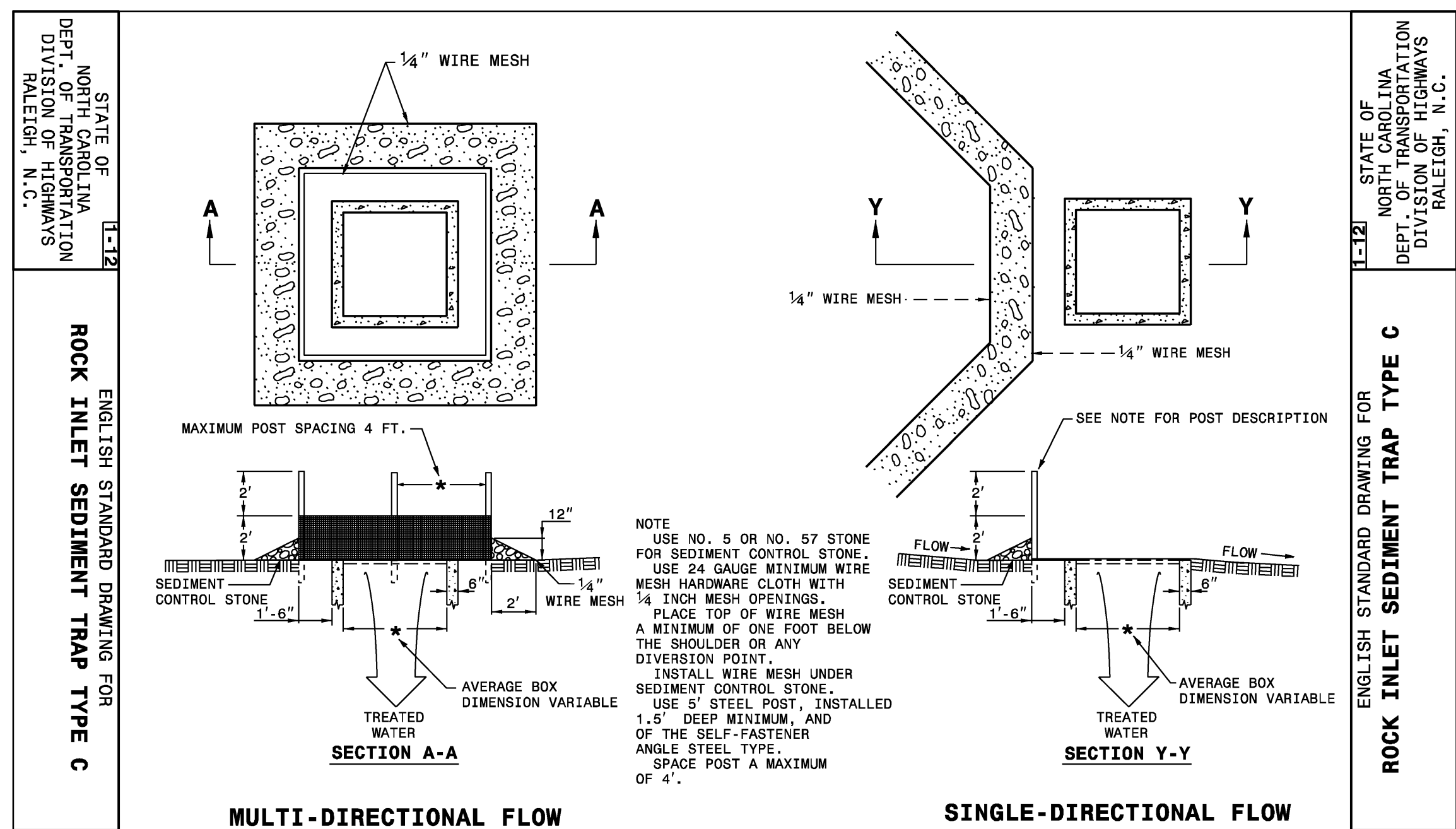
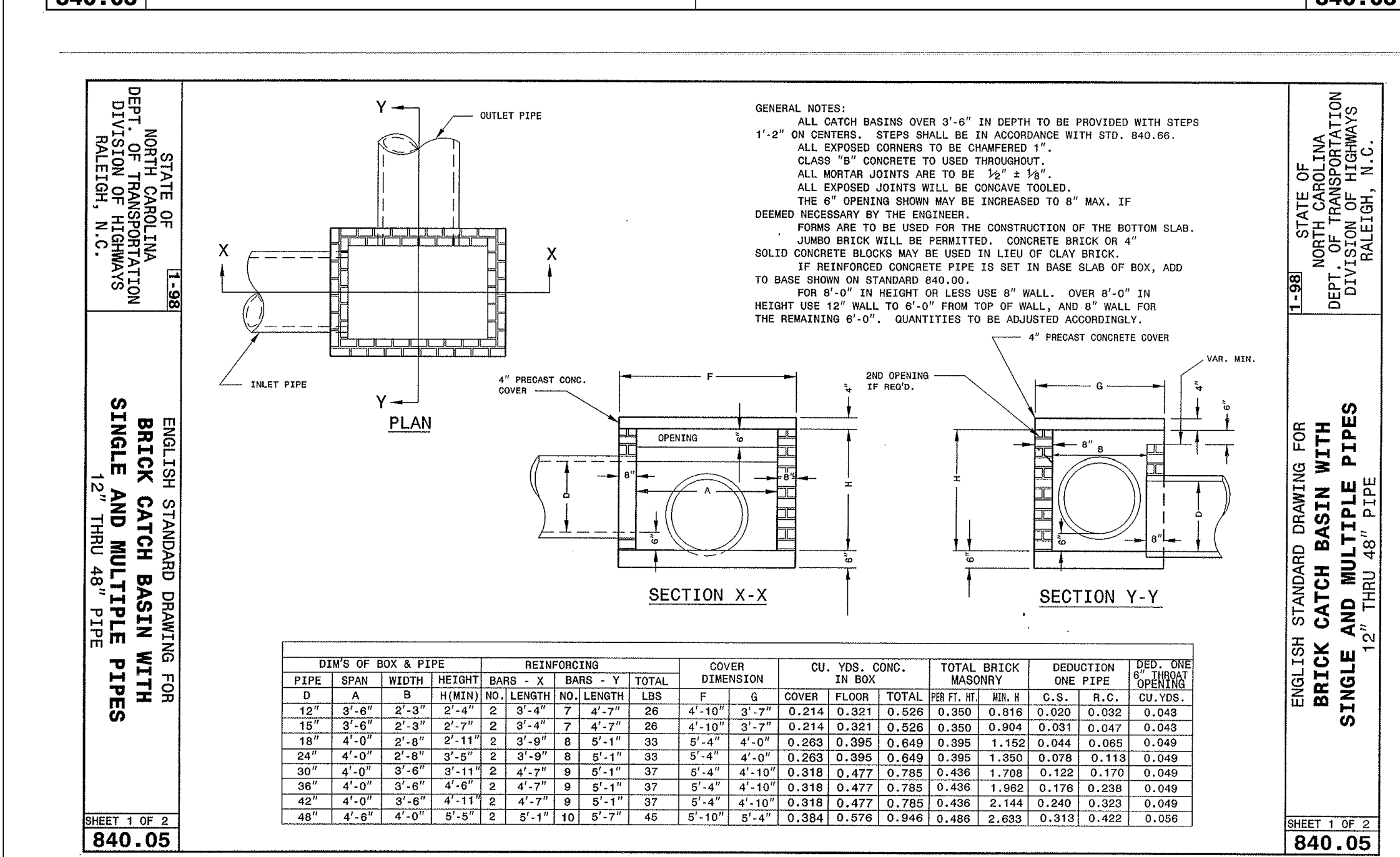
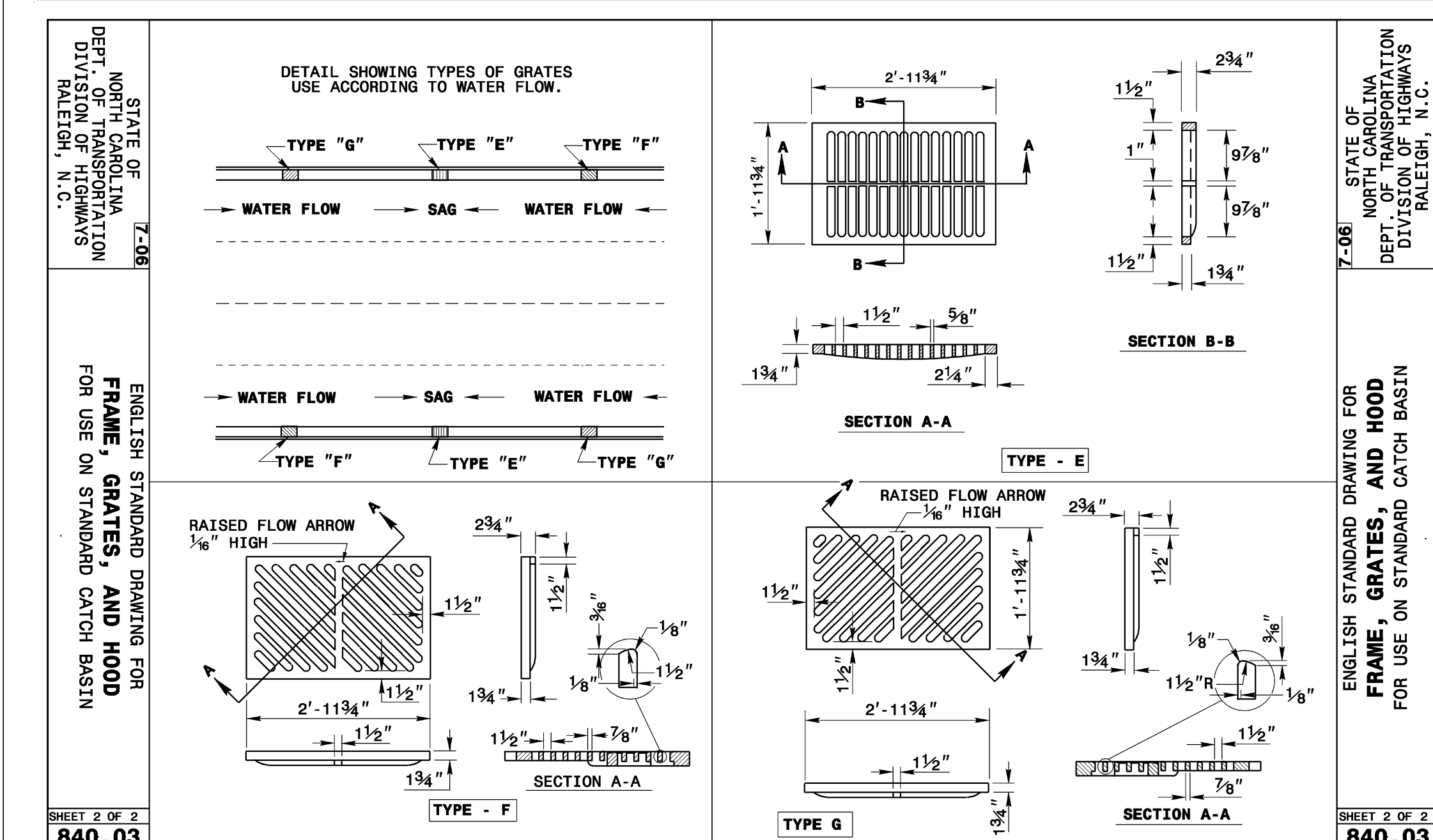
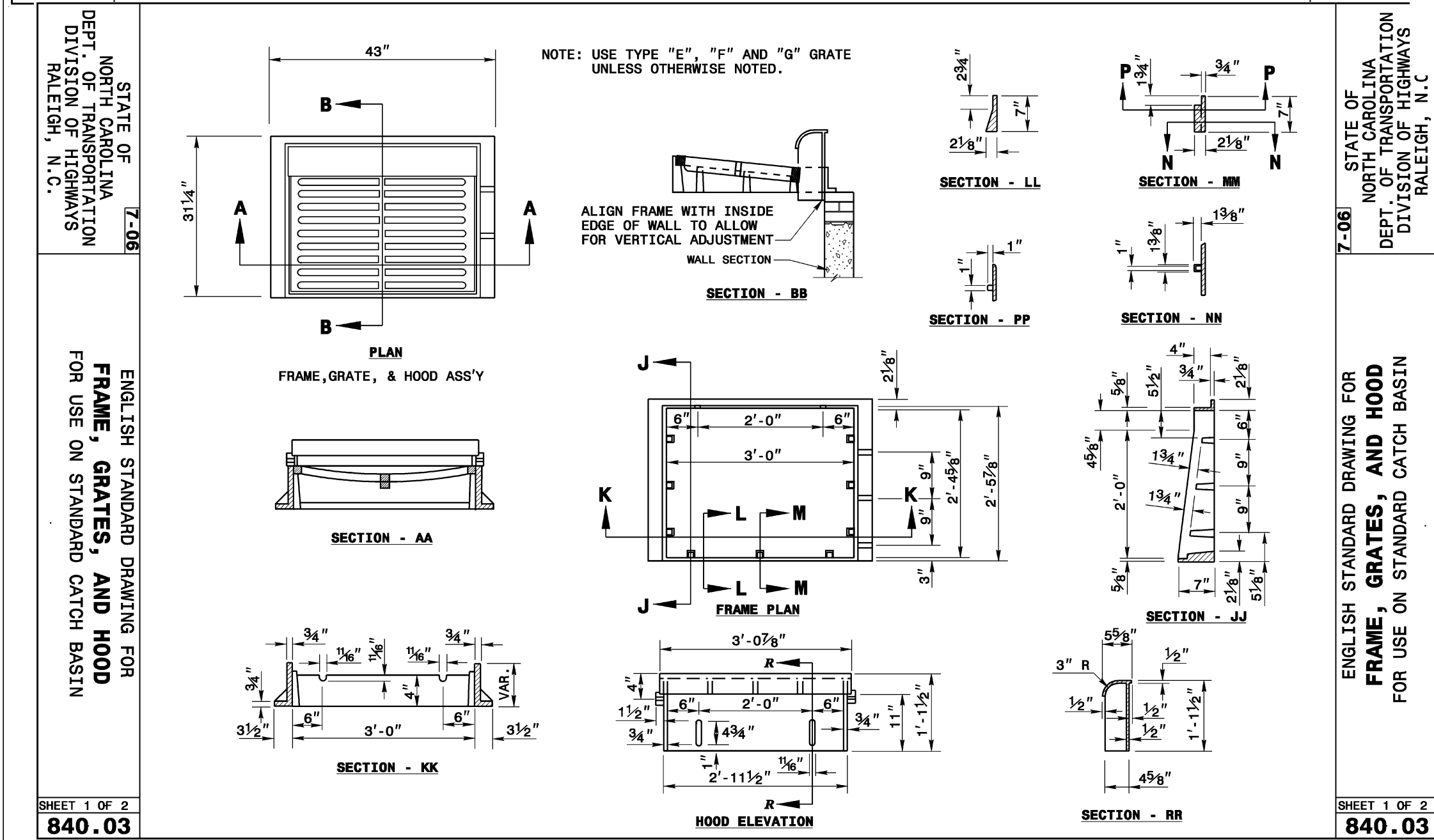
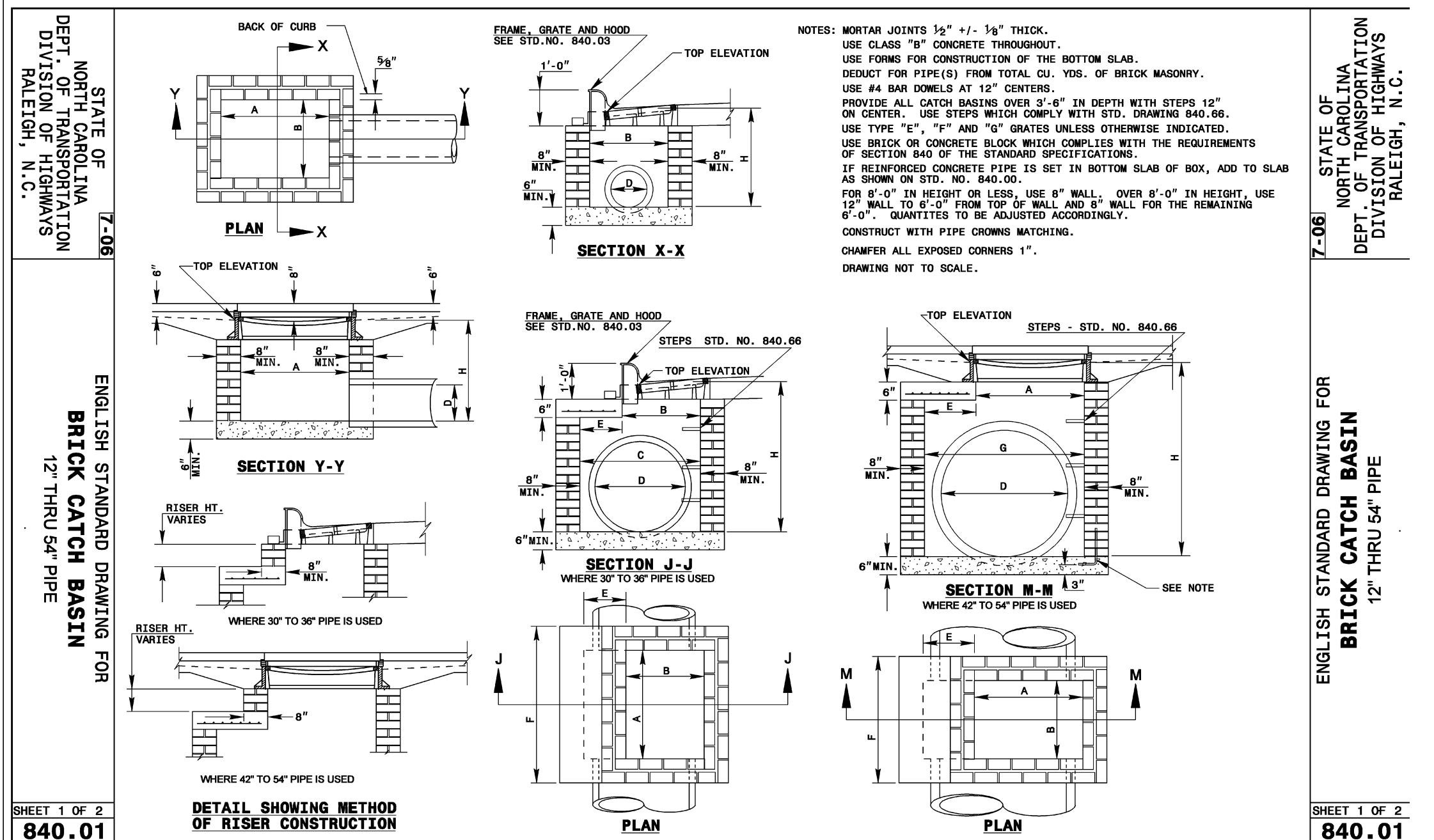
RIVERGATE IV ROADWAY PLANS
CHARLOTTE, NORTH CAROLINA
CHILDRESS KLEIN PROPERTIES



PROJECT MANAGER	DATE
DESIGN BY	11/21/17
APPROVED BY	1
DATE	
PROJECT NAME	
PROJECT NUMBER	
PROJECT DATE	
PROJECT TIME	
PROJECT COST	

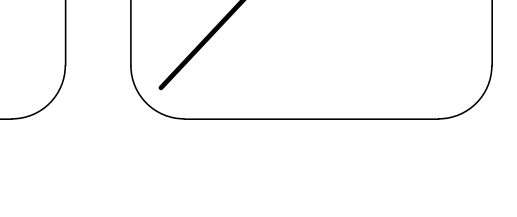
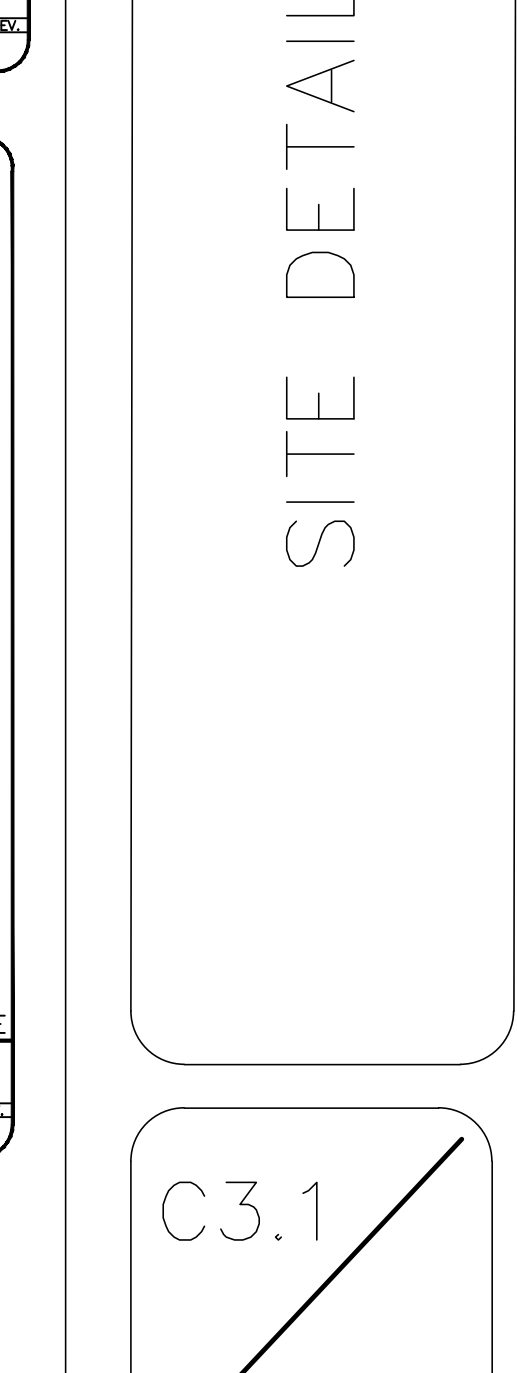
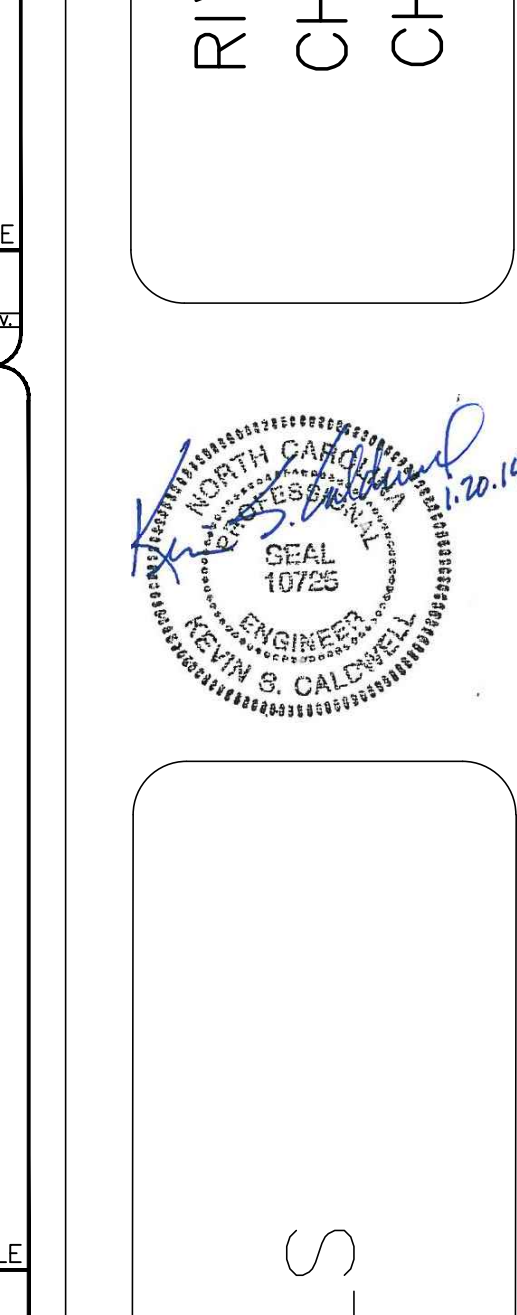
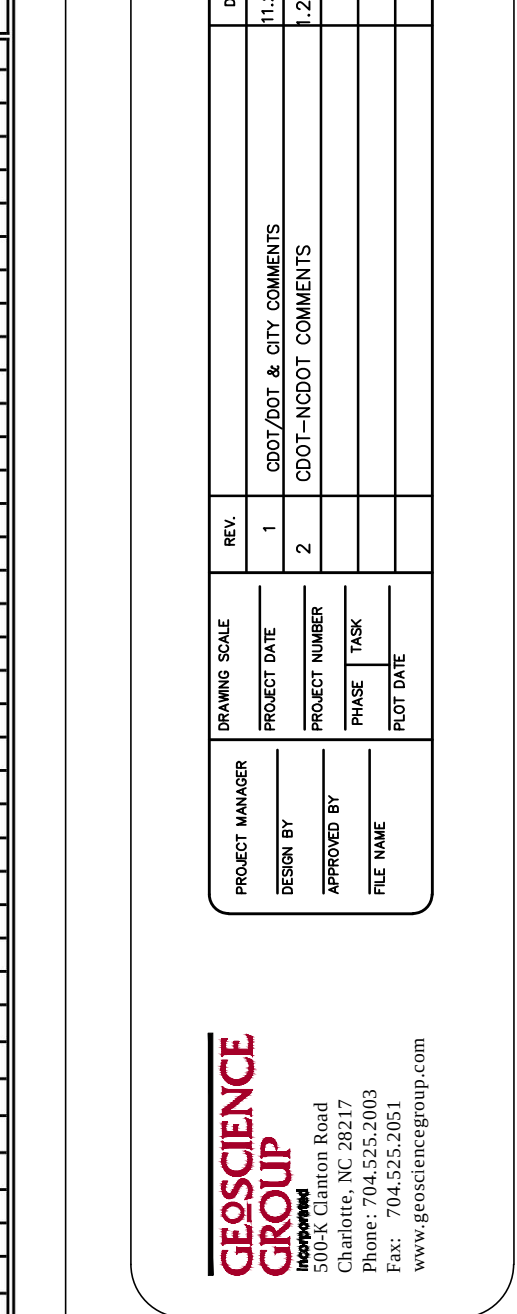
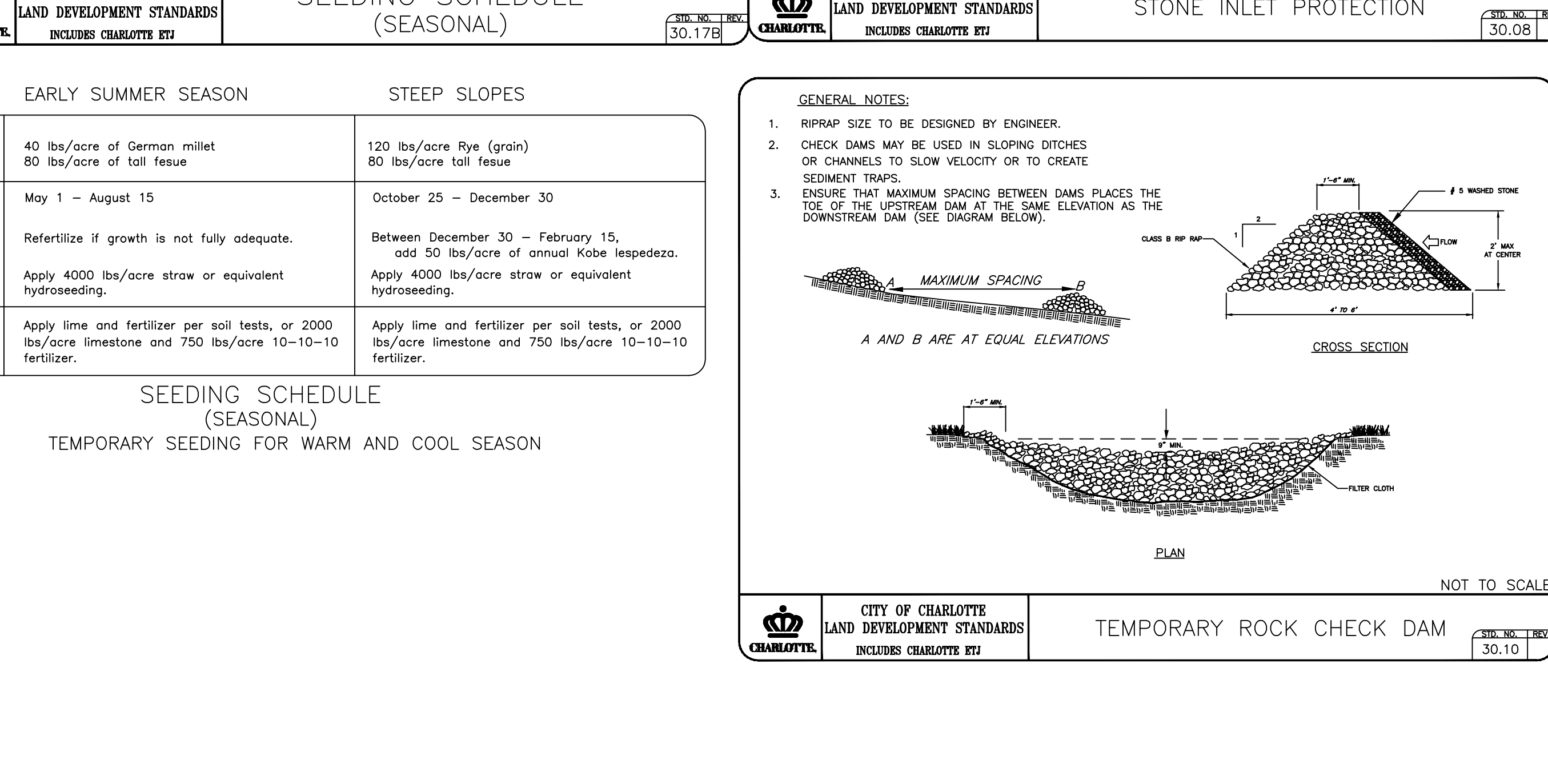
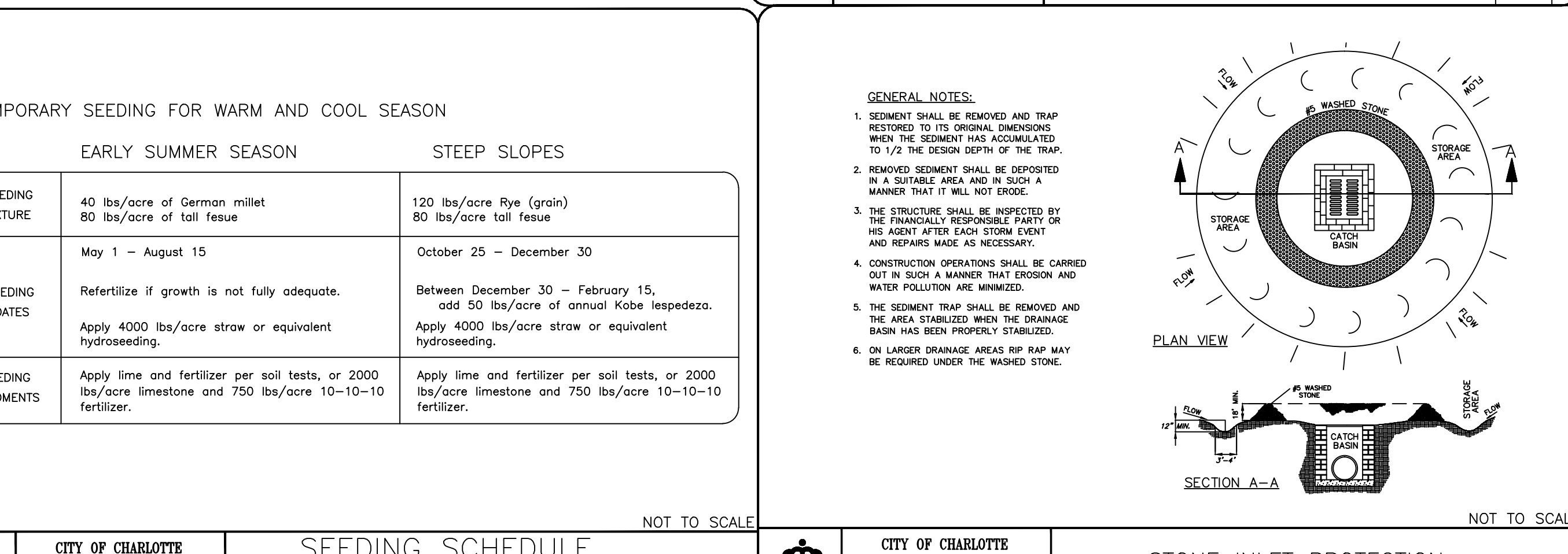
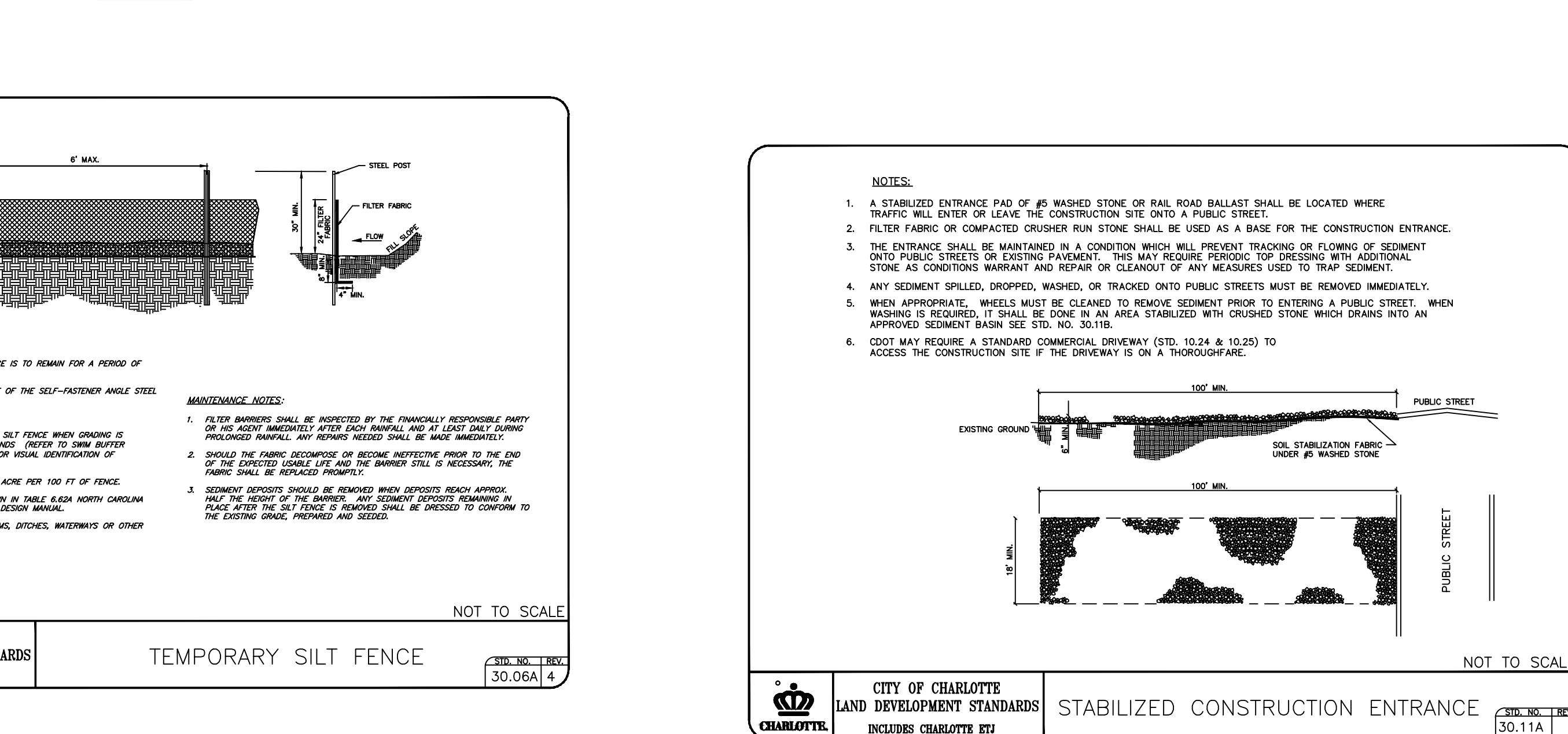


DATE	1.20.14
PROJECT NUMBER	1
PROJECT NAME	COOP-NECOT COMMENTS
PROJECT DATE	
PROJECT TOWN	
PROJECT TYPE	
PROJECT PHASE	
PROJECT TIME	
PROJECT COST	



UPSTREAM STR	DOWNSTREAM STR	DIAMETER INCHES	LENGTH FT.	SLOPE %	DRAINAGE AREA (AC)	RUNOFF COEFF	INLET RUNOFF CFS	TOTAL FLOW CFS	FULL FLOW CAPACITY	UPSTREAM INVERT	DOWNSTREAM INVERT	STR #	TYPE	STR ELEV.	GUT. FLOW	SPREAD	Q PASS	COMMENT
SD38	SD39	15	95	1.77	0.36	0.80	2.36	8.55	9.31	600.49	598.81	SD39	FES	598.78	605.51	1.15	3.48	
SD37A	SD38	15	110	1.39	0.12	0.80	0.67	6.19	8.25	602.22	600.69	SD37A	CB	607.28	0.38	2.52	0.00	
SD37	SD37A	15	82	1.00	0.16	0.80	0.90	5.52	7.00	603.24	602.42	SD37	CB	608.22	0.51	2.61	0.01	
SD36	SD37	15	42	8.71	0.15	0.90	0.95	0.10	20.85	607.10	603.44	SD36	DI	611.10	0.54	3.81	0.03	
SD35	SD37	15	190	0.76	0.16	0.80	1.30	3.67	12.28	609.30	603.44	SD35	CB	631.30	0.56	2.52	0.00	
SD34	SD35	15	30	5.33	0.28	0.95	1.87	1.87	16.16	611.10	609.50	SD34	DI	615.10	1.06	3.16	0.02	
SD33	SD35	15	145	2.38	0.16	0.80	0.90	0.90	10.80	612.95	609.50	SD33	CB	616.95	0.51	3.89	0.05	
SD42	EXMH	30	14	1.00	0.12	0.80	0.67	15.64	44.43	605.74	605.60	SD42	CB	616.30	0.38	2.15		
SD41	SD42	30	36	1.00	5.07	0.30	10.89	14.97	44.43	606.10	605.74	SD41	CB	609.00				*ADD 3.03SDS/NOTE 1
SD40	SD42	15	118	1.00	0.19	0.80	1.25	1.25	7.00	611.45	610.27	SD40	CB	616.45	0.61	2.51		
SD28	SD31	15	34	1.00	0.35	0.80	1.97	1.97	7.00	612.69	612.35	SD31	JB	616.00				
SD29	SD31	36	140	0.80	-	-	39.53	64.62	608.49+/-	608.49+/-	608.49+/-	SD28	CB	617.69	1.12	2.88		
SD30	SD31	36	4	0.50	0.28	0.80	1.84	41.39	51.09	611.70	611.68	SD30	CB	615.70	0.90	2.88		
SD27	SD29	15	6	1.00	0.73	0.80	4.79	4.79	39.74	610.00	609.94	SD27	CB	615.45	2.34	4.02	-	USE DBL-CB
SD26	SD29	36	98	0.80	0.49	0.80	2.76	37.50	64.62	609.26+/-	608.49+/-	SD26	CB	616.00	1.56	6.29	0.28	
SD24	SD26	30	158	1.16	0.42	0.80	2.36	34.47	47.86	611.10	608.26+/-	SD24	CB	617.70	1.48	5.36	0.20	
SD23	SD24	24	22	1.00	6.36	0.30	13.41	13.41	24.51	610.50	610.28	SD23	DI	615.00				NOTE 1
SD25	SD24	15	50	3.62	0.33	0.80	1.86	1.86	13.31	612.21	610.40	SD25	CB	620.00	1.28	5.84	0.20	
SD21	SD24	24	226	0.50	0.36	0.80	2.02	17.11	17.33	612.43	611.30	SD21	CB	618.44	1.03	5.38	0.14	
SD22	SD21	15	46	4.62	0.38	0.80	2.14	2.14	17.04	616.60	613.87	SD22	CB	621.50	1.36	5.97	0.22	
SD18	SD21	24	244	0.50	1.14	0.30	2.40	13.20	17.33	613.85+/-	612.83+/-	SD18	DI	623.00				NOTE 1
SD19	SD18	15	38	3.18	0.28	0.60	1.18	3.32	12.48	615.00	613.79+/-	SD19	CB	620.29	0.67	3.56	0.03	
SD20	SD19	15	44	8.64	0.38	0.80	2.14	2.14	20.57	619.00	615.20	SD20	CB	622.78	1.43	4.72	0.14	
SD17A	SD18	18	154	0.81	-	-	-	7.48	10.24	615.14+/-	613.85+/-	SD17A	JB	624.00				
SD17	SD17A	15	20	0.80	0.29	0.70	1.67	1.67	7.00	617.60	617.40	SD17	CB	621.50				
SD16	SD17A	18	76	0.81	-	-	-	5.81	10.24	615.14+/-	613.85+/-	SD16	JB	622.65				CONVERT TO JB
SD15	SD16	15	14	1.00	0.86	0.70	4.23	4.23	7.00	618.00	617.86	SD15	CB	622.27	1.72	7.93	0.61	
SD14	SD16	15	49	2.98	0.25	0.90	1.58	1.58	12.08	617.32	615.86	SD14	EXIST	623.60	0.90	5.12	0.11	
SD4	SD5	15	108	0.50	0.18	0.80	1.01	3.03	4.95	628.93	628.39	SD5	FES					CONC.FES
SD3	SD4	15	24	0.50	0.41	0.70	2.02	2.02	4.95	629.25	629.13	SD3	CB	632.50	0.58	4.99	0.06	
SD1	SD2(EXCB)	15	8	1.00	0.24	0.80	1.35	1.35	7.00	631.66	631.58	SD1	CB	635.30	0.77	6.82	0.17	

110+7.03 inhr.
125+8.21 inhr.
Gutter Flow is (C x 4in/hr x A) + Cpass
Mannings n=0.12
NOTE 1: NCDDT 840.05 OPEN ON TWO SIDES WITH 3000 PSI 6" CONCRETE APRON 5' WIDE ALL SIDES
Denotes inverts to be field verified



ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

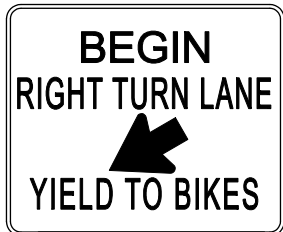
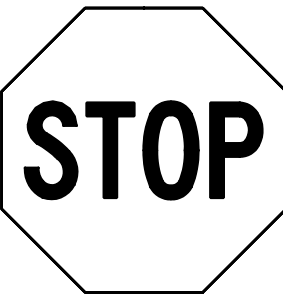
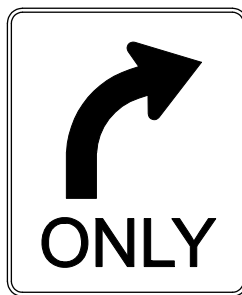
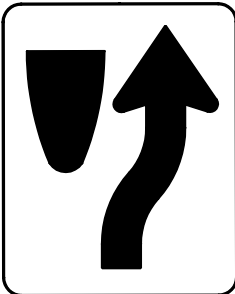
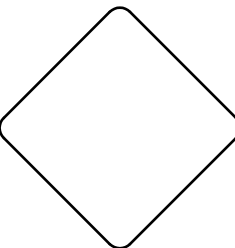
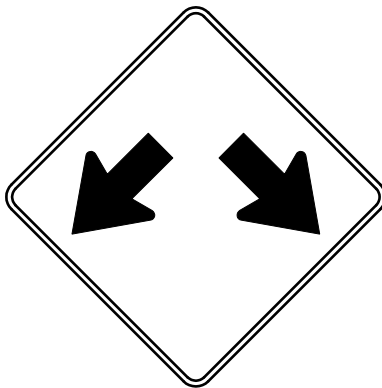
GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | | | |
|------------------|--------------------------|----------------------------|
| ROAD NAME
ALL | MARKING
THERMOPLASTIC | MARKER
RAISED PERMANENT |
|------------------|--------------------------|----------------------------|
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON THE CONCRETE SURFACES PRIOR TO PLACING THERMO PAVEMENT MARKING MATERIAL.
- F) ON ASPHALT SURFACES, USE HEATED-IN-PLACE THERMOPLASTIC OR EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS.
- G) ON CONCRETE SURFACES, USE HEATED-IN-PLACE THERMOPLASTIC OR COLD APPLIED PLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS.
- H) MARKERS SHALL BE INSTALLED ACCORDING TO THE NCDOT ROADWAY STANDARD DRAWING 1250.01.

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC (4", 90 MILS)	
TA	WHITE EDGELINE
TB	YELLOW EDGELINE
THERMOPLASTIC (4", 120 MILS)	
TC	10 FT. WHITE SKIP
TD	3 FT. - 9 FT./SP WHITE MINISKIP
TE	WHITE SOLID LANE LINE
TH	YELLOW SINGLE CENTER
TI	YELLOW DOUBLE CENTER
T8	2 FT. - 6 FT./SP WHITE MINISKIP
T9	2 FT. - 6 FT./SP YELLOW MINISKIP
THERMOPLASTIC (8", 90 MILS)	
TN	WHITE GORELINE
TO	WHITE DIAGONAL
TP	YELLOW DIAGONAL
THERMOPLASTIC (8", 120 MILS)	
T13	3 FT. - 9 FT./SP WHITE MINISKIP
TQ	WHITE CROSSWALK LINE
TR	WHITE SOLID LANE LINE
THERMOPLASTIC (24", 120 MILS)	
T2	WHITE STOPBAR
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	
UA	LEFT TURN ARROW
UB	RIGHT TURN ARROW
UC	STRAIGHT ARROW
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (120 MILS)	
UI	ALPHA-NUMERIC CHARACTER
PERMANENT RAISED PAVEMENT MARKERS	
■	CRYSTAL AND RED
◆	YELLOW AND YELLOW

401 QUANTITY REQ'D .1_  36 X 30 R2-1 ONE "U" POST PER SIGN	406 QUANTITY REQ'D .3_  36 X 30 R4-4 ONE "U" POST PER SIGN	411 QUANTITY REQ'D .1_  24 X 18 R3-17 ONE "U" POST PER SIGN
402 QUANTITY REQ'D .2_  36 X 36 R1-1 ONE "U" POST PER SIGN	407 QUANTITY REQ'D .2_  30 X 36 R3-5R MOUNT BELOW SIGN 402 IN 2 INSTALLATIONS	412 QUANTITY REQ'D .1_  24 X 8 R3-17B MOUNT BELOW SIGN 411 IN 1 INSTALLATION
403 QUANTITY REQ'D .7_  24 X 30 R4-7 ONE "U" POST PER SIGN	408 QUANTITY REQ'D .4_  54 x 18 R6-1R TWO "U" POSTS PER SIGN MOUNT BACK TO BACK WITH SIGN 408 IN 1 INSTALLATION	413 QUANTITY REQ'D .1_  30 X 36 R6-2 ONE "U" POST PER SIGN
404 QUANTITY REQ'D .7_  18 X 18 OM-1 MOUNT BELOW SIGN 403 IN 7 INSTALLATIONS	409 QUANTITY REQ'D .2_  30 X 30 W12-1 ONE "U" POST PER SIGN	414 QUANTITY REQ'D .2_  36 x 12 R6-1R MOUNT ABOVE SIGN 405 IN 2 INSTALLATIONS
405 QUANTITY REQ'D .6_  36 X 36 R5-1 ONE "U" POST PER SIGN	410 QUANTITY REQ'D .5_  36 X 36 R3-7R ONE "U" POST PER SIGN	



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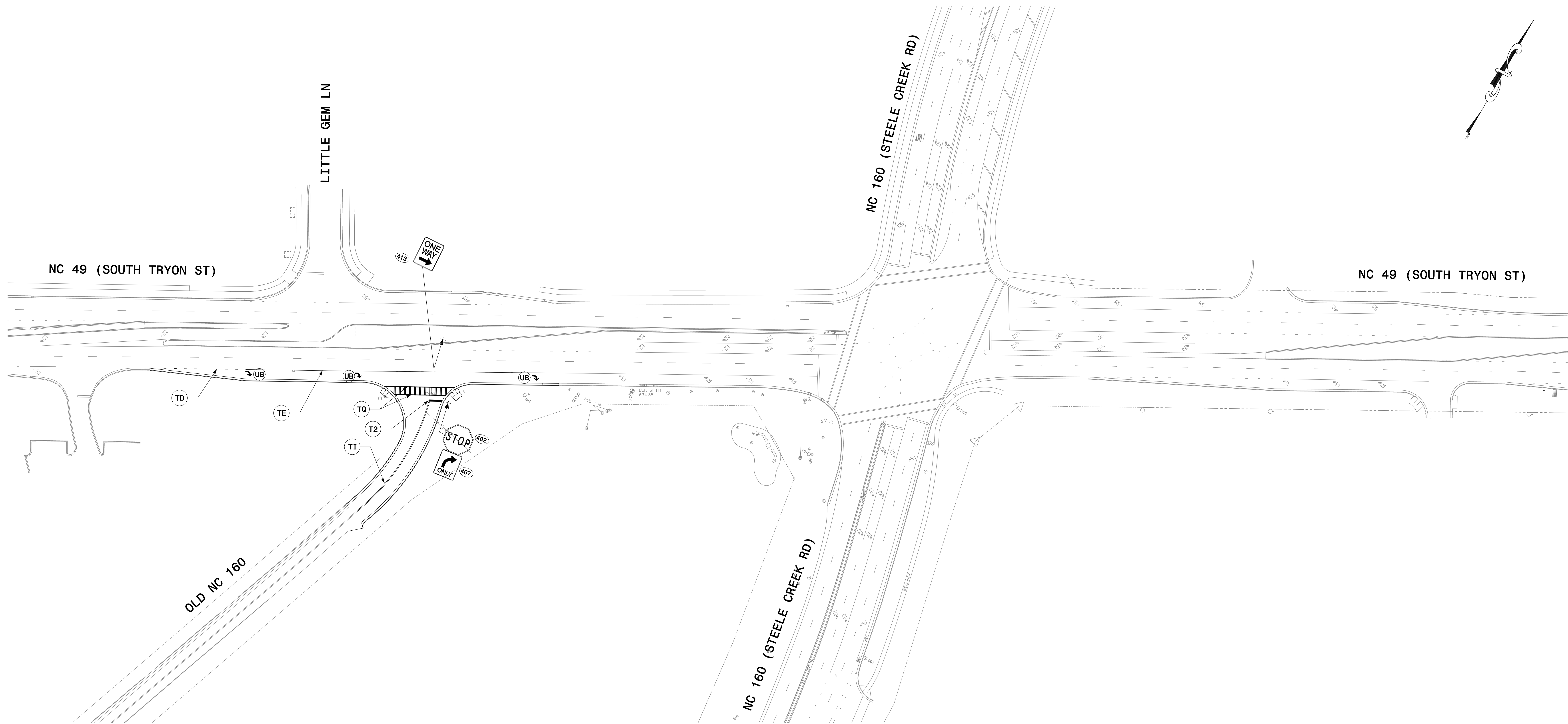
PAVEMENT MARKING
NOTES AND SCHEDULE

RIVERGATE
CHARLOTTE, NC

PMP 1.0

DATE	
REVISION	
PROJECT NAME	
PROJECT NUMBER	
PROJECT DATE	
PROJECT LOCATION	
PROJECT DRAWN BY	
PROJECT CHECKED BY	
PROJECT DATE	
PROJECT TIME	
PROJECT DATE	
PROJECT TIME	

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Jim Gray
20/2014

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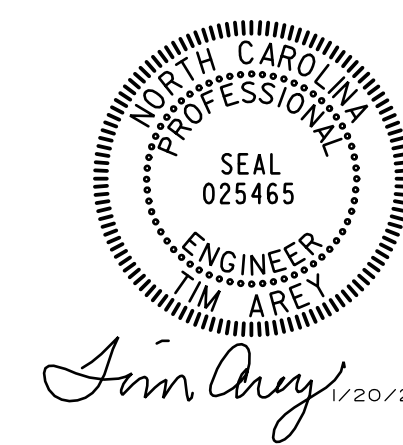
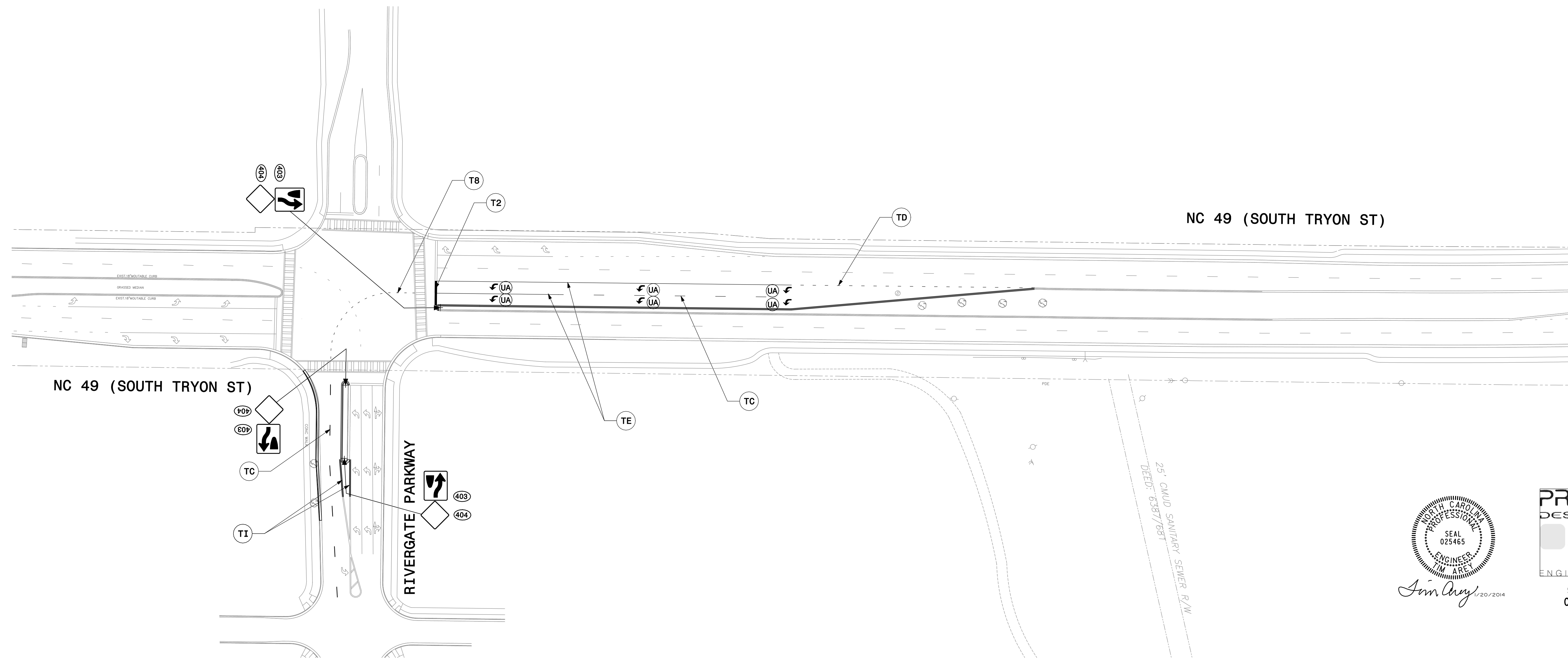
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PAVEMENT MARKING AND SIGNING
NC 49 (SOUTH TRYON ST)

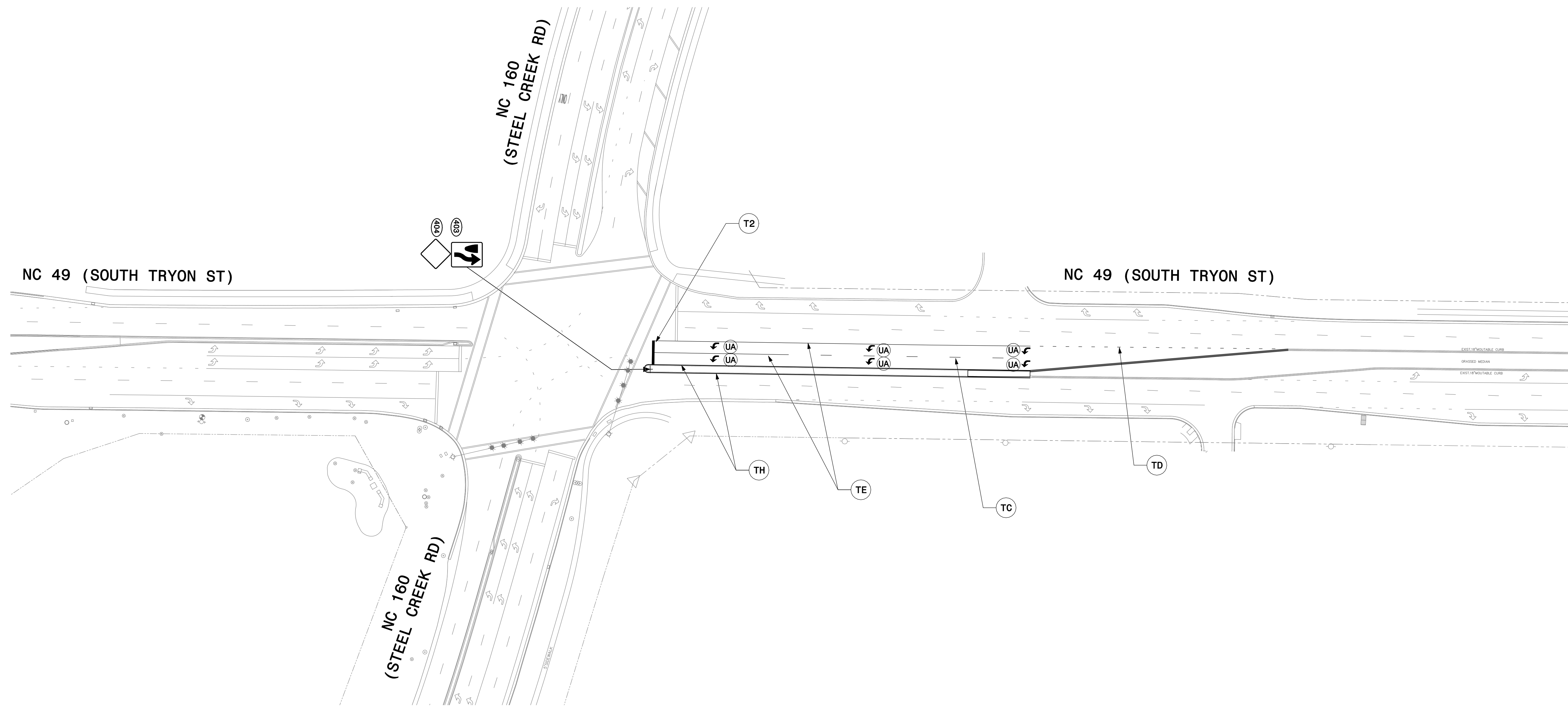
RIVERGATE
CHARLOTTE, NC

PMP 1.1

PROJECT MANAGER	DATE
DESIGN BY	
APPROVED BY	
DATE	
PROJECT NAME	
PROJECT NUMBER	
PROJECT DATE	



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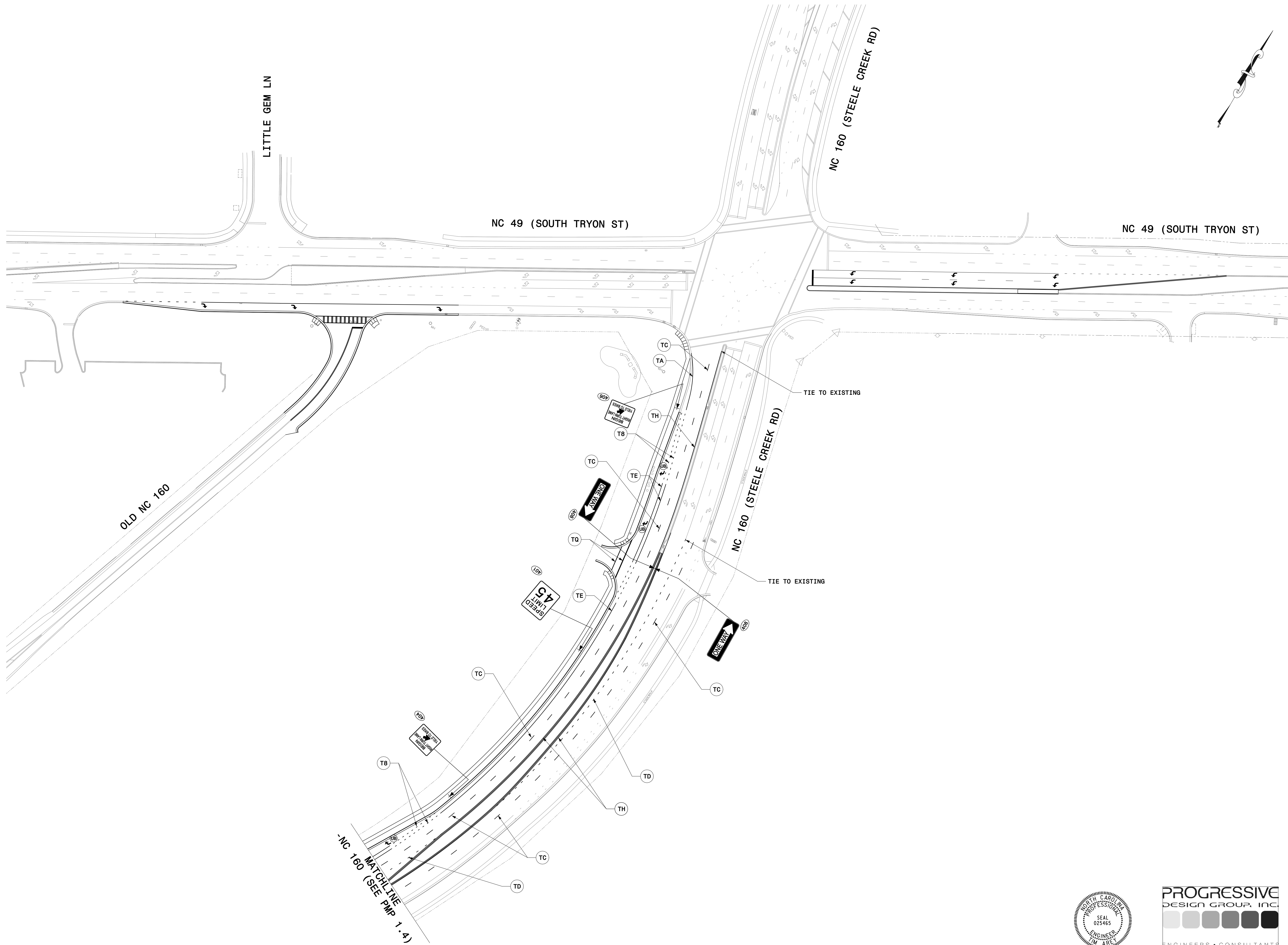


PAVEMENT MARKING AND SIGNING
NC 49 (SOUTH TRYON ST)

RIVERGATE
CHARLOTTE, NC

PROJECT MANAGER	DATE
DESIGN BY	REV.
APPROVED BY	PROJECT NAME
DATE	PROJECT NUMBER
DATE	PROJECT LOCATION
DATE	PROJECT DATE

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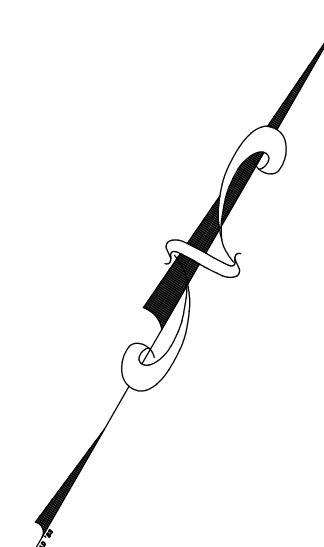
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PAVEMENT MARKING PLAN
NC 160 (STEELE CREEK RD)

RIVERGATE
CHARLOTTE, NC

PMP 1.3

PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGN BY	PROJECT DATE		
APPROVED BY	PROJECT NUMBER		
IN CHARGE	PHASE		
FILE NAME	FOOT DATE		

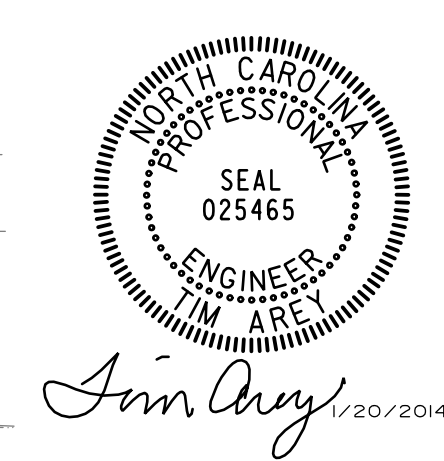


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**TRAFFIC CONTROL PLAN
PHASE 4 - STEP 3
NC 160 (STEELE CREEK RD)**

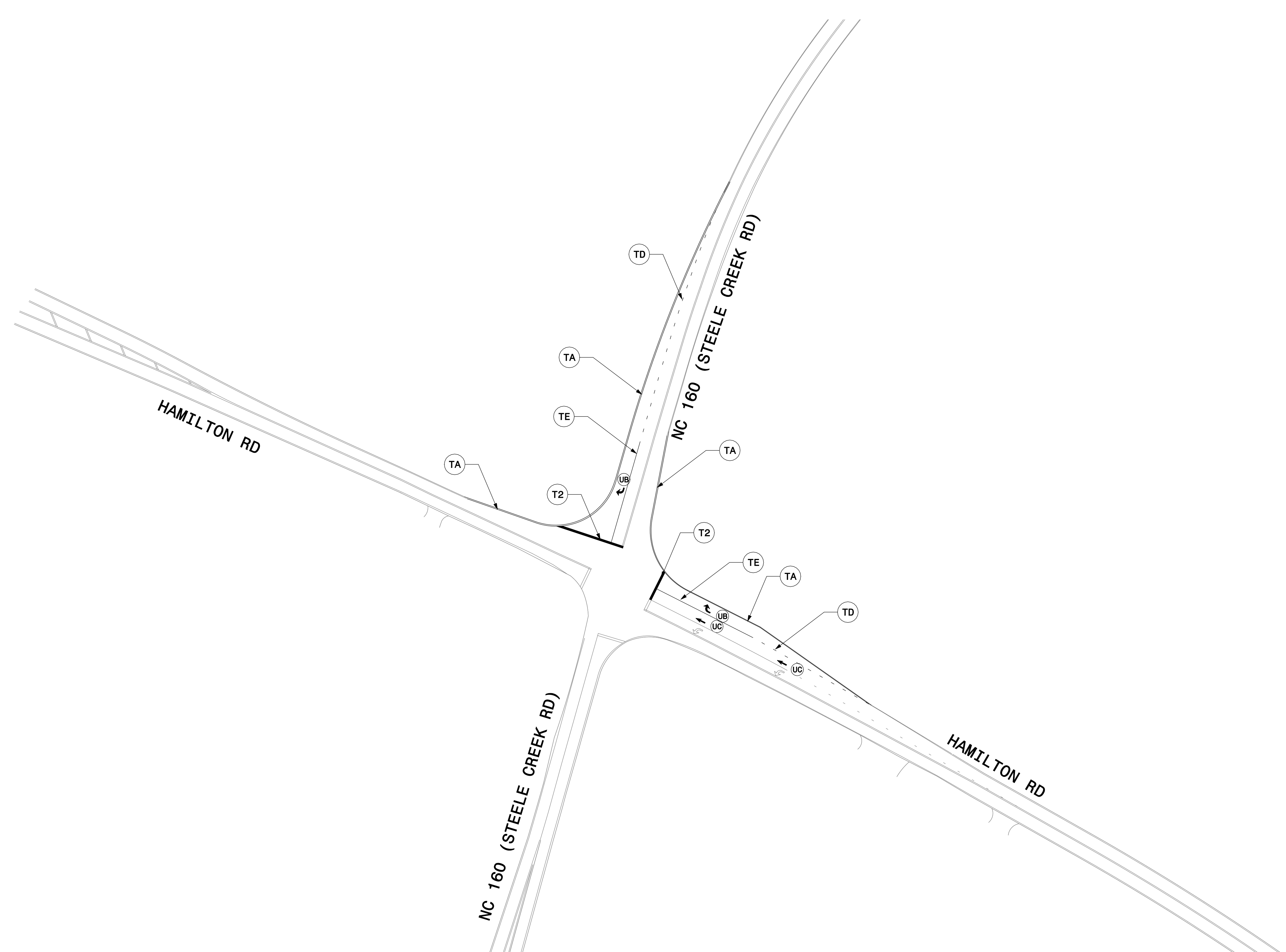
**RIVERGATE
CHARLOTTE, NC**

PMP 1.4



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DRAWING SCALE	
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PROJECT NAME	
DESIGNED BY	
CHECKED BY	
IN CHARGE	
DATE	



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PAVEMENT MARKING AND SIGNING
NC 160 - HAMILTON ROAD

RIVERGATE
CHARLOTTE, NC

PMP 1.5

PROJECT MANAGER	DRAWING SCALE	REV.	DATE
DESIGNED BY	PROJECT TITLE		
APPROVED BY	PROJECT NUMBER		
DATE	PROJECT NAME		
DATE	PROJECT DATE		

GENERAL NOTES

A. STREET SPACE IS AT A MINIMUM SO NO MORE SPACE SHOULD BE USED FOR CONSTRUCTION OR MAINTENANCE WORK THAN IS ABSOLUTELY NECESSARY. THROUGH BARRICADING AND CHANNELIZATION, THE REMAINING STREET SPACE IS TO BE USED TO CARRY THE TRAFFIC AROUND THE WORK AREA IN THE BEST WAY POSSIBLE UNDER PREVAILING CONDITIONS.

B. TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION OR MAINTENANCE OPERATIONS, AND SHALL BE REMOVED OR RELOCATED AS THE WORK IS FINISHED OR WORK CONDITIONS CHANGE. THE AGENCY DOING THE WORK SHALL PATROL THE WORK SITE AS REQUIRED TO ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND OPERATING AT ALL TIMES.

C. ALL TRAFFIC CONTROL SIGNS FOR THE WORK AREA SHALL BE REFLECTORIZED. THE REFLECTIVE MATERIALS USED SHALL BE EQUAL TO OR BETTER THAN THE TYPE I, LEVEL A REFLECTIVE SHEETING REQUIREMENTS IN SECTION 633 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-74).

D. AT NIGHT, ADEQUATE BARRICADES WITH REFLECTORIZED MATERIAL AND LIGHTS ARE REQUIRED TO CALL ATTENTION TO AND TO INDICATE THE ACTUAL LOCATION OF OBSTRUCTIONS AND HAZARDS.

E. WHEN NOT IN USE DURING WORK HOURS OR CONSTRUCTION INACTIVITY, EQUIPMENT SHALL BE PARKED A MINIMUM OF 10' AWAY FROM THE TRAVEL LANE IN SUCH A MANNER AS TO NOT CREATE A SIGHT DISTANCE PROBLEM FOR MOTORISTS.

F. THE MINIMUM WIDTH FOR TEMPORARY TRAVEL LANES IS 11'; HOWEVER, A 12' LANE IS ADVISABLE AND SHOULD BE PROVIDED WHENEVER POSSIBLE.

G. WHENEVER TRAFFIC MUST BE ROUTED ACROSS THE CENTERLINE, THE TWO DIRECTIONS OF TRAFFIC MUST BE PHYSICALLY SEPARATED. TRAFFIC CONES CAN BE EFFECTIVELY USED FOR THIS PURPOSE DURING DAYLIGHT HOURS; REFLECTORIZED DRUMS MUST BE USED AT NIGHT.

H. TRAFFIC SHALL NOT BE ROUTED ACROSS CENTERLINE WITH CONES OR DRUMS DURING NON-WORKING HOURS. CONTRACTOR MUST BE ON SITE OR CHANGE PAVEMENT MARKINGS APPROPRIATELY.

I. GENERALLY, THE PEAK FLOW OF TRAFFIC OCCURS IN CHARLOTTE BETWEEN THE HOURS OF 7-9 A.M. AND 4:30-6:30 P.M., (4-6 P.M. IN THE CBD) MONDAY THROUGH FRIDAY. DURING THESE HOURS CONSTRUCTION ACTIVITY THAT INVOLVES A LANE CLOSURE WILL NOT BE ALLOWED ON THOROUGHFARE STREETS EXCEPT IN EMERGENCY SITUATIONS OR WITH APPROVAL FROM NCDOT/CHARLOTTE DEPARTMENT OF TRANSPORTATION.

J. THE AGENCY DOING THE WORK SHALL PROVIDE FLAGGERS AND/OR POLICE CONTROL WHEN REQUIRED. CONTRACTOR MAY ALSO BE REQUIRED TO PROVIDE A UNIFORMED OFFICER TO CONTROL TRAFFIC WHEN WORKING IN AND AROUND A SIGNALIZED INTERSECTION/NON SIGNALIZED INTERSECTION.

K. EVERY ATTEMPT SHALL BE MADE TO SCHEDULE AND EXPEDITE THE WORK TO CAUSE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC.

L. IN SITUATIONS NOT COVERED IN THIS DESIGN, THE PROTECTION OF THE TRAVELING PUBLIC AND THE PROTECTION OF THE WORKERS ON SITE WILL DICTATE THE MEASURES TO BE TAKEN CONSISTENT WITH THE CITY OF CHARLOTTE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH)/ MUTCD NCDOT ROAD STANDARD DRAWING.

M. THE CONTRACTOR, UTILITY COMPANY, OR GOVERNMENTAL AGENCY INVOLVED IN THE WORK SHALL NOTIFY THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (JIMMY RHYNE AT 704-336-3905) OF THE CONSTRUCTION START DATE AND ANY MAJOR WORK WHERE THE NUMBER OF TRAVEL LANES ARE REDUCED FROM NORMAL CONDITIONS OR THE STREET IS REQUIRED TO BE CLOSED. EXCEPT IN EMERGENCIES, THE FOLLOWING NOTIFICATION IS REQUIRED:

- *CONSTRUCTION START DATE - FIVE (5) WORKING DAYS IN ADVANCE;
- *CLOSING 1 OR MORE TRAVEL LANES DURING PEAK TRAVEL TIMES - FIVE (5) WORKING DAYS PRIOR TO THE SCHEDULED WORK;
- *CLOSING A STREET - TEN (10) WORKING DAYS PRIOR TO THE SCHEDULED WORK.

THIS LEAD-TIME IS NECESSARY FOR PLANNING AND NOTIFYING THE PUBLIC OF EXPECTED CHANGES IN THE NORMAL TRAFFIC CONDITIONS.

N. WHERE COMPLETE STREET CLOSURE IS NECESSARY, THE DEPARTMENT OF TRANSPORTATION WILL COORDINATE CLOSURE OF THE STREET AND, IF NECESSARY, FULLY SIGN A DETOUR ROUTE WITH NCDOT.

O. THE NCDOT/THE CITY ENGINEER OR DIRECTOR OF THE DEPARTMENT OF TRANSPORTATION OR THEIR REPRESENTATIVES ARE AUTHORIZED TO STOP ANY CONSTRUCTION OR MAINTENANCE ACTIVITY WHICH IS NOT PROPERLY SIGNED AND BARRICADED AS REQUIRED BY THIS STANDARD, THE "WATCH", AND/OR THE MUTCD UNTIL SUCH REQUIREMENTS ARE MET.

P. THIS DESIGN STANDARD CANNOT BE USED FOR ALL ROADWAY CONSTRUCTION SITUATIONS. IT IS INTENDED ONLY TO BE USED AS A GUIDELINE. SPECIFIC SITUATIONS MAY REQUIRE ENGINEERING JUDGMENT IN THE PLACEMENT OF TRAFFIC CONTROL DEVICES BECAUSE OF LIMITED VERTICAL AND/OR HORIZONTAL SIGHT DISTANCE.

Q. WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 5 FEET OF THE EDGE OF AN OPEN TRAVEL LANE, THE CONTRACTOR SHALL REFER TO THE "WATCH"/MUTCD, NCDOT STANDARDS FOR PROPER LANE CLOSURE.

R. OPERATIONAL SIGNS ARE GENERALLY MOUNTED ON PORTABLE SUPPORTS. THESE ARE USUALLY USED FOR SHORT-TERM OPERATIONS TO WARN AND GUIDE TRAFFIC. ADVANCED WARNING SIGNS (CONSTRUCTION AHEAD) SHALL BE MOUNTED ON STATIONARY SUPPORTS SEVEN (7) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION OF THE ROADWAY.

S. ALL DRUMS SHALL BE BALLASTED IN SUCH A MANNER THAT THEY WILL BE STABLE UNDER WIND AND VEHICLE ACTION. BALLASTING SHALL BE DONE WITH SANDBAGS OR OTHER YIELDING MATERIAL SITUATED IN THE BASE OF THE DRUMS.

T. CONSTRUCTION WORK SHALL NOT BE ALLOWED ON BOTH SIDES OF THE ROAD SIMULTANEOUSLY WITHIN THE SAME AREA, UNLESS THE ROADWAY IS MEDIAN DIVIDED.

U. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL UP TO THE EDGE AND ELEVATION OF THE EXISTING PAVEMENT AREAS WITHIN 2 FEET OF AN OPEN TRAVEL LANE THAT INCLUDE A DROP-OFF OF MORE THAN 3 INCHES IN ACCORDANCE WITH THE "WATCH"/MUTCD, NCDOT.

V. PAVEMENT MARKINGS ARE TO BE INSTALLED BY THE CONTRACTOR. PRE-LINES MUST BE APPROVED BY NCDOT/CDOT PRIOR TO PLACEMENT OF THE PAVEMENT MARKINGS. THE CONTRACTOR SHALL NOTIFY JIMMY RHYNE (704-336-3905) OF CDOT FIVE (5) WORKING DAYS IN ADVANCE OF PLACING THE PRE-LINES. SEE APPROVED SPECIAL PROVISIONS WITH NCDOT APPROVED PERMIT.

W. TRAFFIC SIGNAL WORK IS TO BE PERFORMED BY CDOT. THE CONTRACTOR SHALL NOTIFY JIMMY RHYNE (704-336-3905) OF CDOT AT LEAST 60 DAYS IN ADVANCE OF NEEDED SIGNAL WORK. IF A TRAFFIC SIGNAL USES STEEL POLES AND/OR MAST ARMS, AT LEAST 90 DAYS ADVANCE NOTICE IS REQUIRED.

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANAUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.

TITLE

- 1101.01 WORK ZONE ADVANCE WARNING SIGNS
1101.02 TEMPORARY LANE CLOSURES
1101.03 TEMPORARY ROAD CLOSURES
1101.04 TEMPORARY SHOULDER CLOSURES
1101.05 WORK ZONE VEHICLE ACCESSES
1101.11 TRAFFIC CONTROL DESIGN TABLES
1110.01 STATIONARY WORK ZONE SIGNS
1110.02 PORTABLE WORK ZONE SIGNS
1115.01 FLASHING ARROW BOARDS
1130.01 DRUM
1135.01 CONES
1145.01 BARRICADES - TYPE III
1150.01 FLAGGING DEVICES
1160.01 TEMPORARY CRASH CUSHION - REFLECTIVE END TREATMENT
1170.01 POSITIVE PROTECTION
1180.01 SKINNY - DRUM
1205.01 PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02 PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.03 PAVEMENT MARKINGS - EXITS AND ENTRANCE RAMPS
1205.04 PAVEMENT MARKINGS - INTERSECTIONS
1205.05 PAVEMENT MARKINGS - TURN LANES
1205.06 PAVEMENT MARKINGS - LANE DROPS
1205.08 PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09 PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01 RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01 RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

TEMPORARY PAVEMENT MARKING

SYMBOL	DESCRIPTION
	TEMPORARY PAVEMENT MARKINGS
P2	PAINT(24") WHITE STOPBAR
CA	COLD APPLIED PLASTIC (4") TYPE 4 - REMOVABLE TAPE
CI	WHITE EDGELINE YELLOW DOUBLE CENTER
P8	PAINT(4") 2 FT. - 6 FT./SP WHITE MINISKIP
P9	2 FT. - 6 FT./SP YELLOW MINISKIP
PA	WHITE EDGELINE
PB	YELLOW EDGELINE
PC	10 FT. WHITE SKIP
PD	3 FT. - 9 FT./SP WHITE MINISKIP
PE	WHITE SOLID LANE LINE
PI	YELLOW DOUBLE CENTER
PN	PAINT(8") WHITE GORELINE
PO	WHITE DIAGONAL
QA	PAINTMARKING SYMBOLS LEFT TURN ARROW
QB	RIGHT TURN ARROW
QC	STRAIGHT ARROW
QT	U-TURN ARROW
MH	MARKERS TEMPORARY RAISED PAVEMENT MARKERS YELLOW & YELLOW
MI	CRYSTAL & RED

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
 DIRECTION OF PEDESTRIAN TRAFFIC FLOW
----- EXIST. PVMT.
 NORTH ARROW
===== PROPOSED PVMT.
~~~~~ TEMP. SHORING (LOCATION PURPOSES ONLY)  
 WORK AREA  
 WORK COMPLETED PREVIOUS PHASE

TRAFFIC CONTROL DEVICES

- BARRICADE (TYPE III)  
 CONE  
 DRUM SKINNY DRUM TUBULAR MARKER  
 TEMPORARY CRASH CUSHION  
 FLASHING ARROW BOARD  
 FLAGGER  
 LAW ENFORCEMENT  
 TRUCK MOUNTED ATTENUATOR (TMA)  
 CHANGEABLE MESSAGE SIGN

TEMPORARY SIGNING

- PORTABLE SIGN  
 STATIONARY SIGN  
 STATIONARY OR PORTABLE SIGN

SIGNALS

- EXISTING PROPOSED TEMPORARY

PAVEMENT MARKINGS

- =====EXISTING LINES  
=====TEMPORARY LINES

PAVEMENT MARKERS

- CRYSTAL/CRYSTAL  
 CRYSTAL/RED  
 YELLOW/YELLOW

PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS



TRAFFIC CONTROL PLAN  
NOTES AND LEGEND

RIVERGATE  
CHARLOTTE, NC

TCN 1.1

|                  |  |
|------------------|--|
| DATE             |  |
| REV              |  |
| DRAWING SCALE    |  |
| PROJECT DATE     |  |
| DESIGNED BY      |  |
| CHECKED BY       |  |
| PROJECT NUMBER   |  |
| PROJECT NAME     |  |
| PROJECT LOCATION |  |
| PROJECT DATE     |  |

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PROJECT PHASING

PHASE 1 – NC 49 NORTHBOUND – DAY WORK ONLY.

STEP 1 – PERFORM ROADWAY WIDENING AND RIGHT TURN LANE CONSTRUCTION ON NC 49 NORTHBOUND

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEET TCP 1.1.
- 2: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 1 TRAFFIC PATTERN.
- 3: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 4: RELOCATE ALL UTILITIES WITHIN WORK ZONE OR COORDINATE THE RELOCATION OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- 5: INSTALL DRAINAGE IMPROVEMENTS.
- 6: CONSTRUCT NEW CURB AND GUTTER, AND SIDEWALK.
- 7: REMOVE EXISTING CURB AND GUTTER.
- 8: CONSTRUCT ROADWAY TO INTERMEDIATE COURSE.

AT END OF WORKDAY, RESTORE ALL TRAVEL LANES AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH TCP 1.2.

STEP 2 – PERFORM ROADWAY MILLING AND OVERLAY ON NC 49 NORTHBOUND.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL.
- 2: MILL NC 49 NORTHBOUND TO LIMITS SHOWN ON THE PLANS.
- 3: PLACE FINAL PAVEMENT COURSE AND PAVEMENT MARKINGS ON NC 49 NORTHBOUND.

PHASE 2 – NC 49 SOUTHBOUND – DAY WORK ONLY.

STEP 1 –PERFORM ROADWAY WIDENING AND LEFT TURN LANE CONSTRUCTION ON NC 49 SOUTHBOUND.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEET TCP 2.1.
- 2: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 2 TRAFFIC PATTERN.
- 3: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 4: CONSTRUCT NEW CURB AND GUTTER.
- 5: REMOVE EXISTING CURB AND GUTTER.
- 6: CONSTRUCT ROADWAY TO INTERMEDIATE COURSE.
- 7: INSTALL NEW MONOLITHIC ISLAND,

AT END OF WORKDAY, RESTORE ALL TRAVEL LANES AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH TCP 2.2.

STEP 2 – PERFORM ROADWAY MILLING AND OVERLAY ON NC 49 SOUTHBOUND.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL.
- 2: MILL NC 49 SOUTHBOUND TO LIMITS SHOWN ON THE PLANS.
- 3: PLACE FINAL PAVEMENT COURSE AND PAVEMENT MARKINGS ON NC 49 SOUTHBOUND.

PHASE 3 – RIVERGATE PARKWAY – DAY WORK ONLY.

STEP 1 – PERFORM ROADWAY WIDENING AND CONSTRUCTION ON RIVERGATE PARKWAY MEDIAN.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEET TCP 3.1.
- 2: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 3 – STEP 1 TRAFFIC PATTERN.
- 3: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 4: CONSTRUCT NEW CURB AND GUTTER.
- 5: REMOVE EXISTING CURB AND GUTTER.
- 6: CONSTRUCT ROADWAY TO INTERMEDIATE COURSE.

AT END OF WORKDAY, RESTORE ALL TRAVEL LANES AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH TCP 3.1 (END OF DAY CONDITION)

STEP 2 – PERFORM ROADWAY WIDENING AND CONSTRUCTION ON RIVERGATE PARKWAY EDGE OF ROADWAY.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEET TCP 3.2.
- 2: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 3 – STEP 2 TRAFFIC PATTERN.
- 3: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 4: CONSTRUCT NEW CURB AND GUTTER.
- 5: REMOVE EXISTING CURB AND GUTTER.
- 6: CONSTRUCT ROADWAY TO INTERMEDIATE COURSE.

AT END OF WORKDAY, RESTORE ALL TRAVEL LANES AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH TCP 3.2 (END OF DAY CONDITION).

STEP 3 – PERFORM ROADWAY MILLING AND OVERLAY ON RIVERGATE PARKWAY.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL.
- 2: MILL RIVERGATE PARKWAY TO LIMITS SHOWN ON THE PLANS.
- 3: PLACE FINAL PAVEMENT COURSE AND PAVEMENT MARKINGS.

PHASE 4 – DAY WORK ONLY. PERFORM ROADWAY WIDENING AND CONSTRUCTION ON NC 160.

BEGIN PHASE 4 ONLY AFTER ALL WORK ON NC 49 AND RIVERGATE PARKWAY HAVE BEEN COMLTED AND ALL TRAVEL/TURN LANES ARE FULLY OPENED TOTRAFFIC.

STEP 1 – NC 160 EASTBOUND

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEETS TCP 4.1. AND 4.2
- 2: REMOVE EXISTING PAVEMENT MARKINGS AND INSTALL TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH SHEETS TCP 4.1 AND TCP 4.2.
- 3: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 4 – STEP 1 TRAFFIC PATTERN.
- 4: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 5: CONSTRUCT NEW CURB AND GUTTER.
- 6: REMOVE EXISTING CURB AND GUTTER.
- 7: CONSTRUCT ROADWAY TO INTERMEDIATE COURSE.

STEP 2 – NC 160 WESTBOUND

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEETS TCP 4.3. AND 4.4.
- 2: INSTALL TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH SHEETS TCP 4.3 AND TCP 4.4.
- 3: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 4 – STEP 2 TRAFFIC PATTERN.
- 4: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 5: CONSTRUCT NEW CURB AND GUTTER.
- 6: REMOVE EXISTING CURB AND GUTTER.
- 7: CONSTRUCT ROADWAY TO INTERMEDIATE COURSE.

AT END OF WORKDAY, RESTORE ALL TRAVEL LANES AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SHEETS TCP 4.5 AND TCP 4.6 (END OF DAY CONDITION)

STEP 3 – NC 160 MEDIAN CONSTRUCTION

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL AND SHEETS TCP 4.7. AND 4.8.
- 2: INSTALL TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH SHEETS TCP 4.7 AND TCP 4.8.
- 3: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT LANE CLOSURES AND PHASE 4 – STEP 3 TRAFFIC PATTERN.
- 4: REMOVE EXISTING CURB AND GUTTER AND MONOLITHIC ISLANDS.
- 5: CONSTRUCT NEW CURB AND GUTTER AND MONOLITHIC ISLANDS.

AT END OF WORKDAY, RESTORE ALL TRAVEL LANES AND PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SHEETS TCP 4.9 AND TCP 4.10 (END OF DAY CONDITION)

STEP 3 – PERFORM ROADWAY MILLING AND OVERLAY ON NC 160.

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL.
- 2: MILL NC 160 NORTHBOUND TO LIMITS SHOWN ON THE PLANS.
- 3: PLACE FINAL PAVEMENT COURSE AND PAVEMENT MARKINGS ON NC 160.

PHASE 5 – WALKER BRANCH ROAD

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL.
- 2: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT ONE LANE TWO WAY TRAFFIC PATTERN USING FLAGGERS.
- 3: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 5: CONSTRUCT NEW CURB AND GUTTER AND SIDEWALK.
- 6: REMOVE EXISTING CURB AND GUTTER.
- 7: CONSTRUCT ROADWAY TO FINAL COURSE.
- 8: PLACE FINAL PAVEMENT MARKINGS.

PHASE 6 – HAMILTON ROAD

- 1: INSTALL WORK ZONE ADVANCE WARNING SIGNS ACCORDING TO THE MUTCD/NCDOT SUPPLEMENTS AND THE CDOT "WATCH" MANUAL.
- 2: INSTALL TRAFFIC CHANNELIZING DEVICES TO IMPLEMENT ONE LANE TWO WAY TRAFFIC PATTERN USING FLAGGERS.
- 3: REMOVE EXISTING LANDSCAPING, TREES, SIDEWALK, ETC.
- 5: CONSTRUCT NEW CURB AND GUTTER AND SIDEWALK.
- 6: REMOVE EXISTING CURB AND GUTTER.
- 7: CONSTRUCT ROADWAY TO FINAL COURSE.
- 8: PLACE FINAL PAVEMENT MARKINGS.



TRAFFIC CONTROL PLAN  
PROJECT PHASING

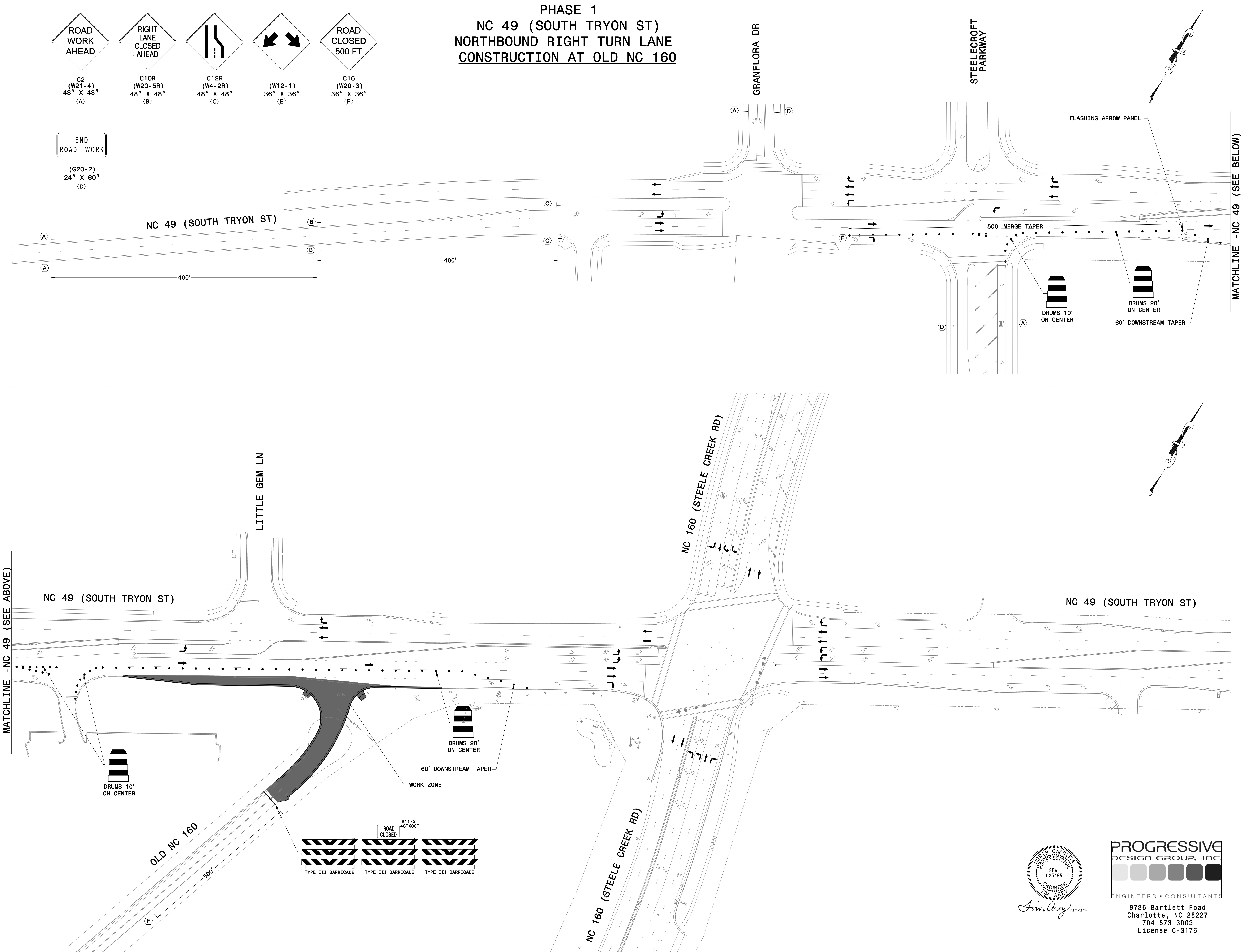
RIVERGATE  
CHARLOTTE, NC

TCN 1.2

|                |  |
|----------------|--|
| DATE           |  |
| REV            |  |
| DRAWING SCALE  |  |
| PROJECT FILE   |  |
| PROJECT NUMBER |  |
| DESIGNED BY    |  |
| CHECKED BY     |  |
| DATE           |  |

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Fax 704.523.2001  
www.gesci.com





DATE

REVISION

PROJECT NUMBER

PROJECT TITLE

DESIGNED BY

APPROVED BY

DATE

PROJECT NUMBER

PROJECT TITLE

DESIGNED BY

APPROVED BY

DATE

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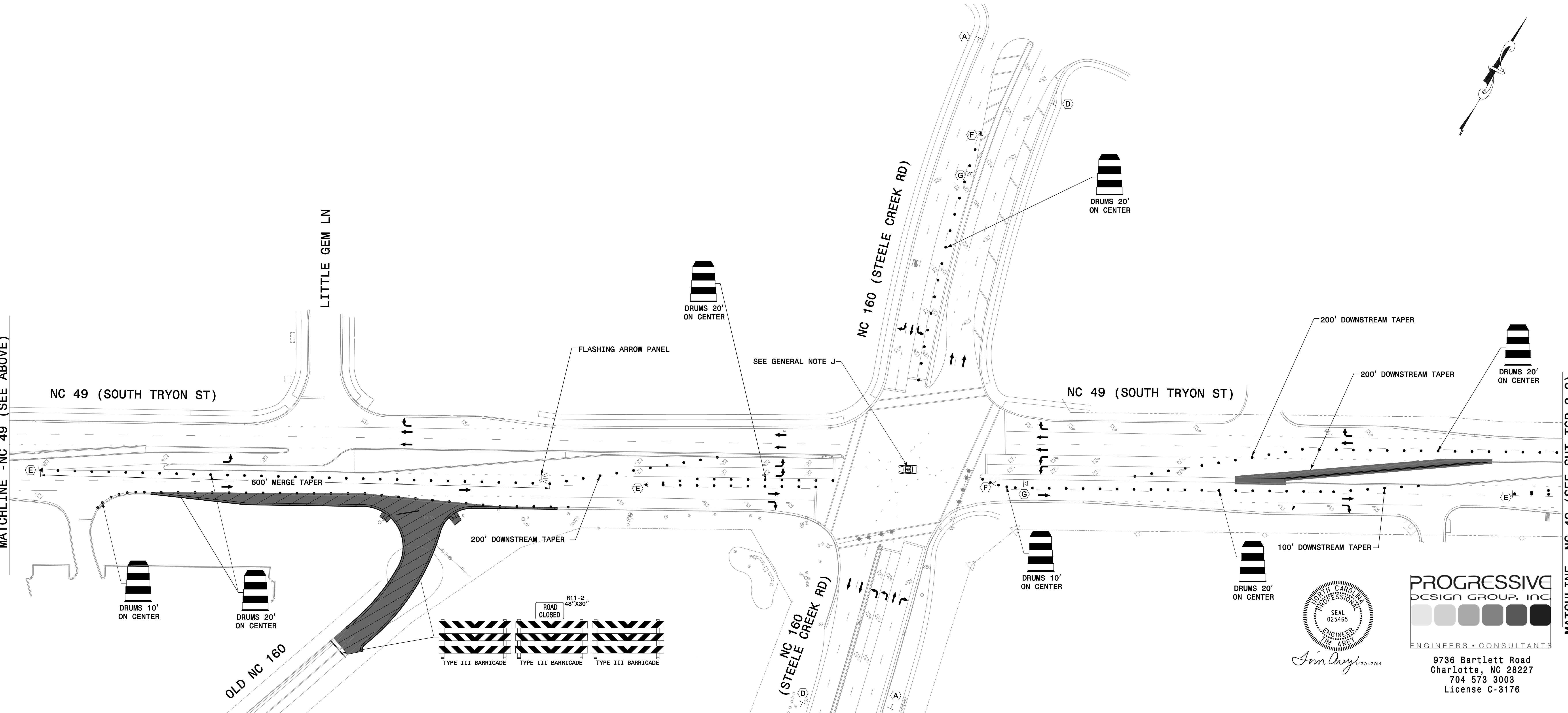
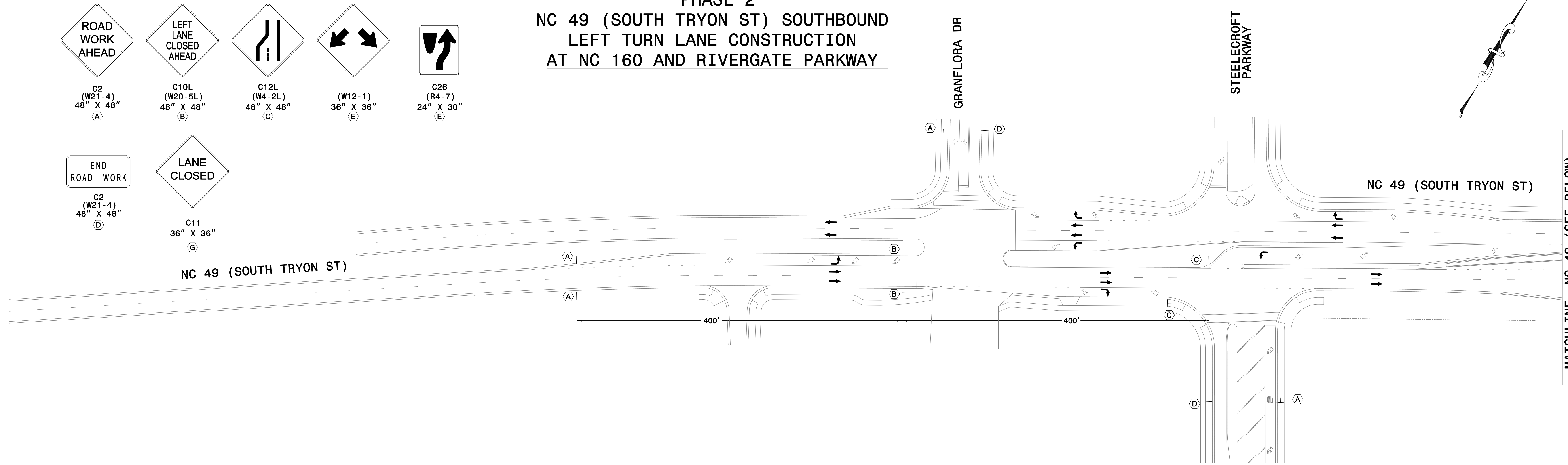
TCP 1.1







PHASE 2  
NC 49 (SOUTH TRYON ST) SOUTHBOUND  
LEFT TURN LANE CONSTRUCTION  
AT NC 160 AND RIVERGATE PARKWAY



MATCHLINE - NC 49 (SEE BELOW)

MATCHLINE - NC 49 (SEE ABOVE)

MATCHLINE - NC 49 (SEE SHT TCP 2.2)

TRAFFIC CONTROL PLAN - PHASE 2  
NC 49 (SOUTH TRYON ST)

RIVERGATE  
CHARLOTTE, NC

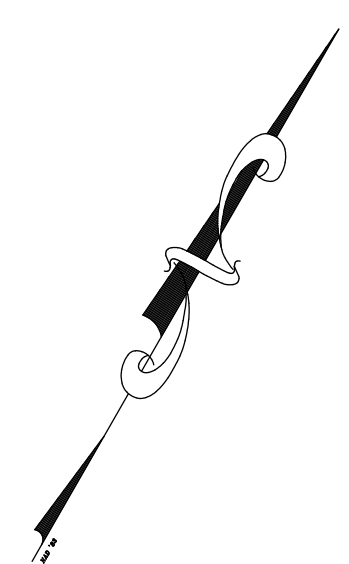
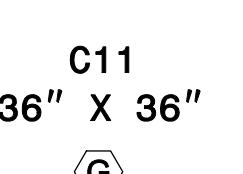
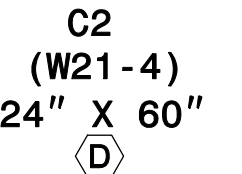
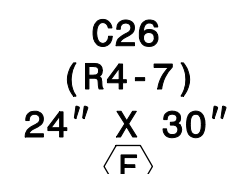
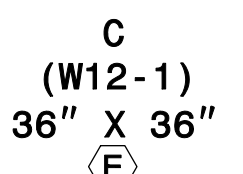
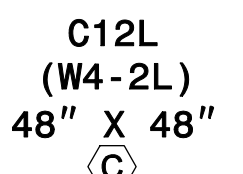
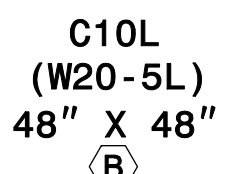
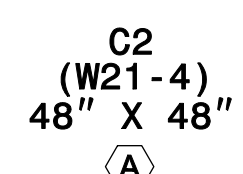
TCP 2.1

|                |  |
|----------------|--|
| DATE           |  |
| REV.           |  |
| DRAWING SCALE  |  |
| PROJECT NUMBER |  |
| REGION         |  |
| DESIGNED BY    |  |
| CHECKED BY     |  |
| PROJECT NAME   |  |
| PROJECT NUMBER |  |
| PROJECT DATE   |  |

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## PHASE 2



**MATCHLINE - NC 49 (SEE BELOW)**

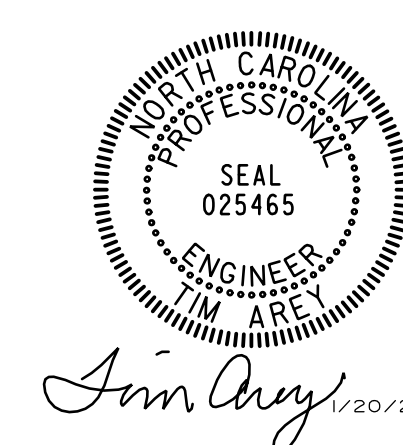
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|-----------------|----------------|------|------|
| DESIGN BY       | PROJECT DATE   |      |      |
| ASSIGNED BY     | PROJECT NUMBER |      |      |
|                 | THAWSE TASK    |      |      |
| FILE NAME       | FILE DATE      |      |      |

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TRAFFIC CONTROL PLAN - PHASE 2  
NC 49 (SOUTH TRYON ST)

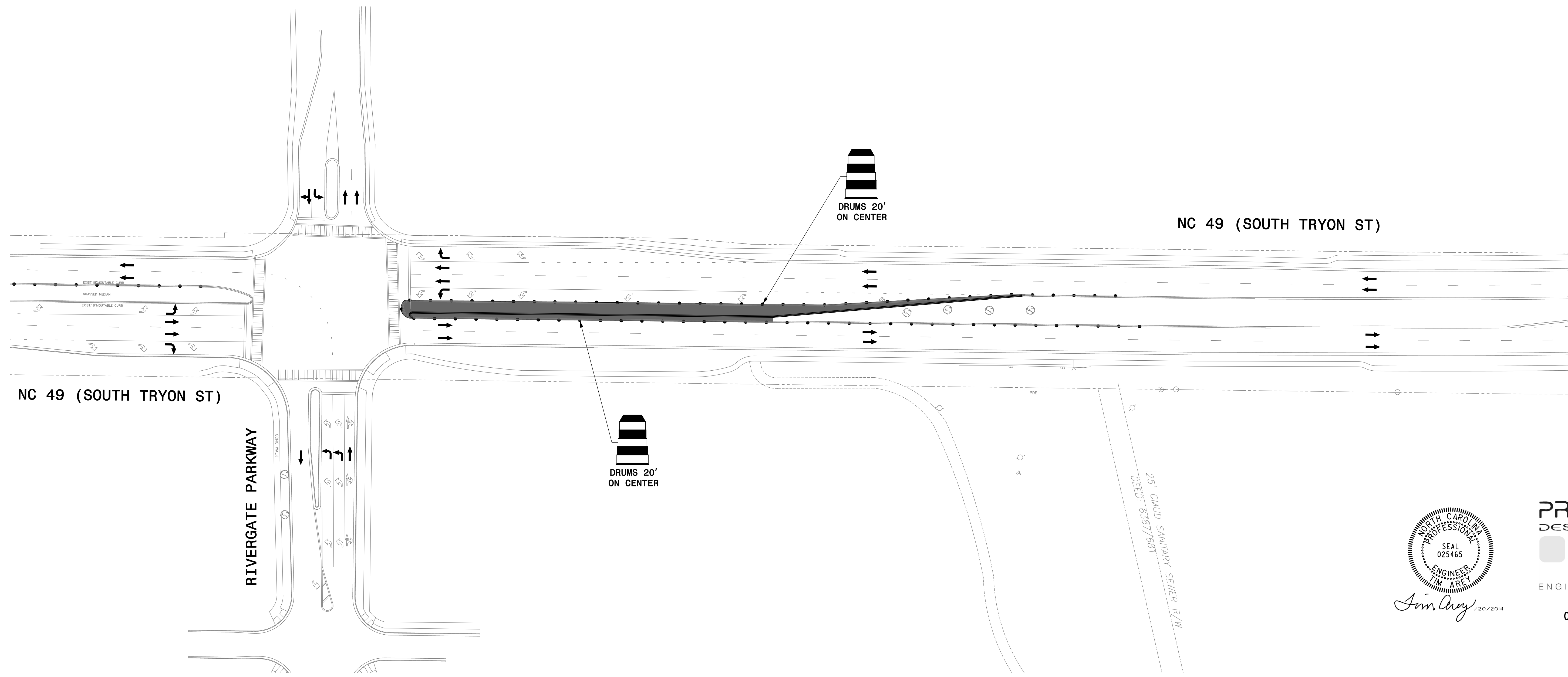
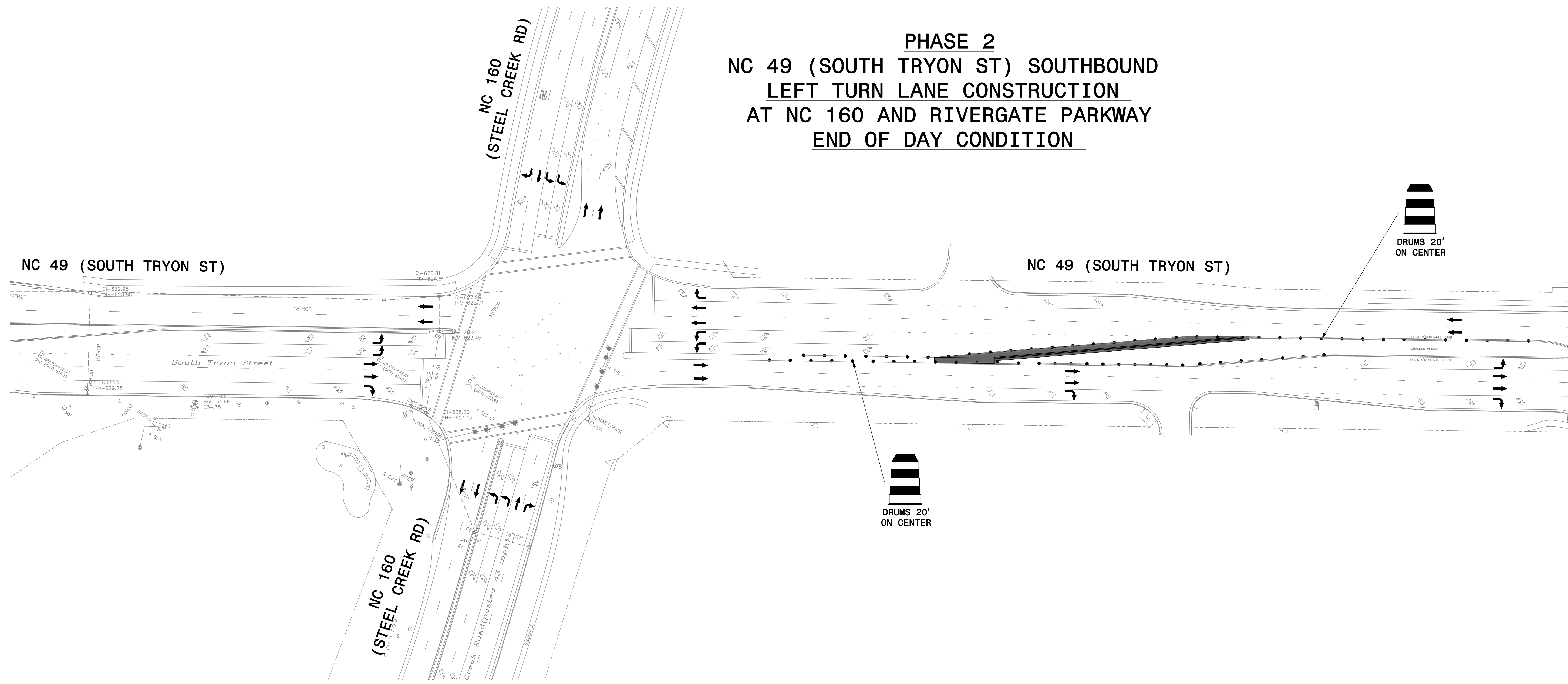
RIVERGATE  
CHARLOTTE, NC

TCP 2.2/



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PHASE 2  
NC 49 (SOUTH TRYON ST) SOUTHBOUND  
LEFT TURN LANE CONSTRUCTION  
AT NC 160 AND RIVERGATE PARKWAY  
END OF DAY CONDITION

DRUMS 20'  
ON CENTER

DRUMS 20'  
ON CENTER

DRUMS 20'  
ON CENTER

DRUMS 20'  
ON CENTER



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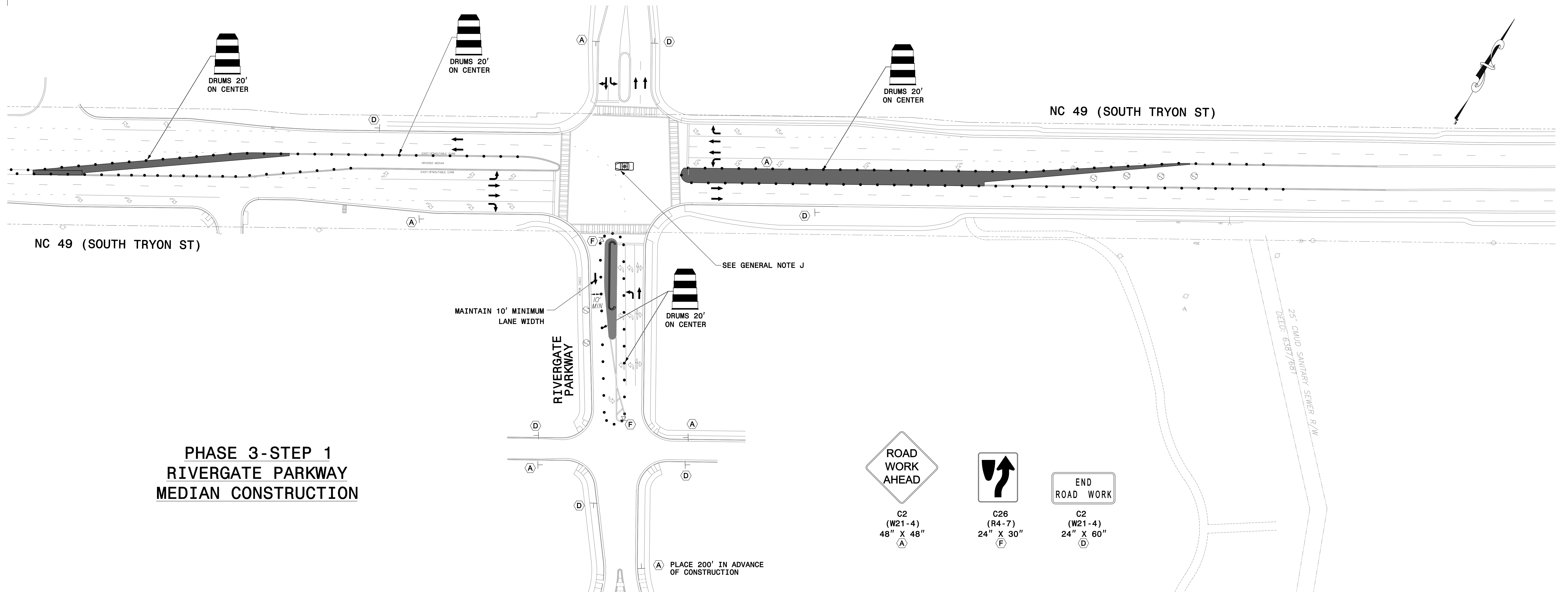
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TRAFFIC CONTROL PLAN - PHASE 2  
NC 49 (SOUTH TRYON ST)

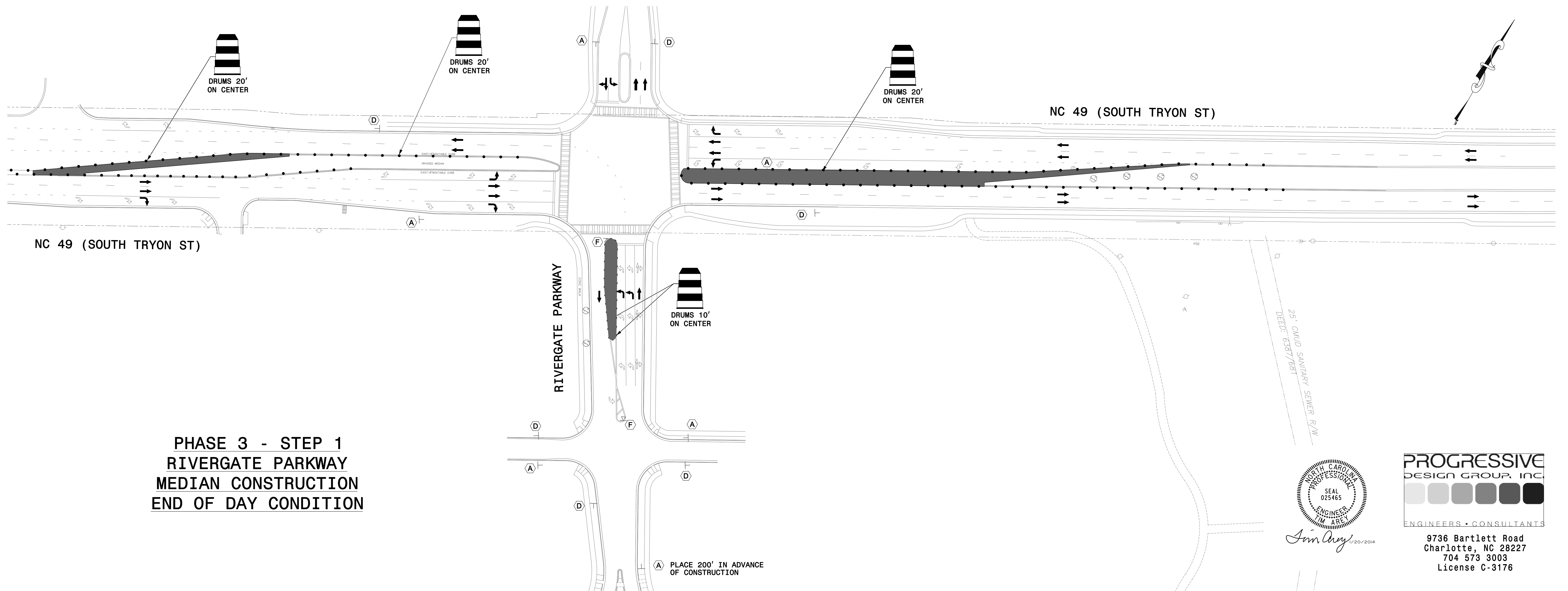
RIVERGATE  
CHARLOTTE, NC

TCP 2.3

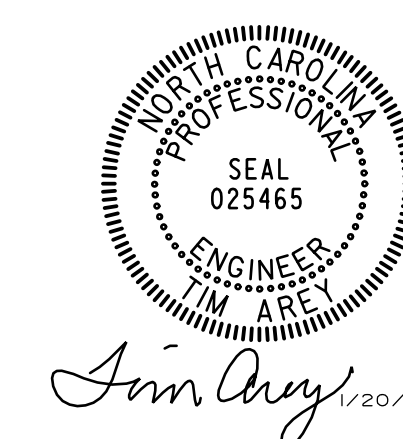




PHASE 3-STEP 1  
RIVERGATE PARKWAY  
MEDIAN CONSTRUCTION



PHASE 3 - STEP 1  
RIVERGATE PARKWAY  
MEDIAN CONSTRUCTION  
END OF DAY CONDITION



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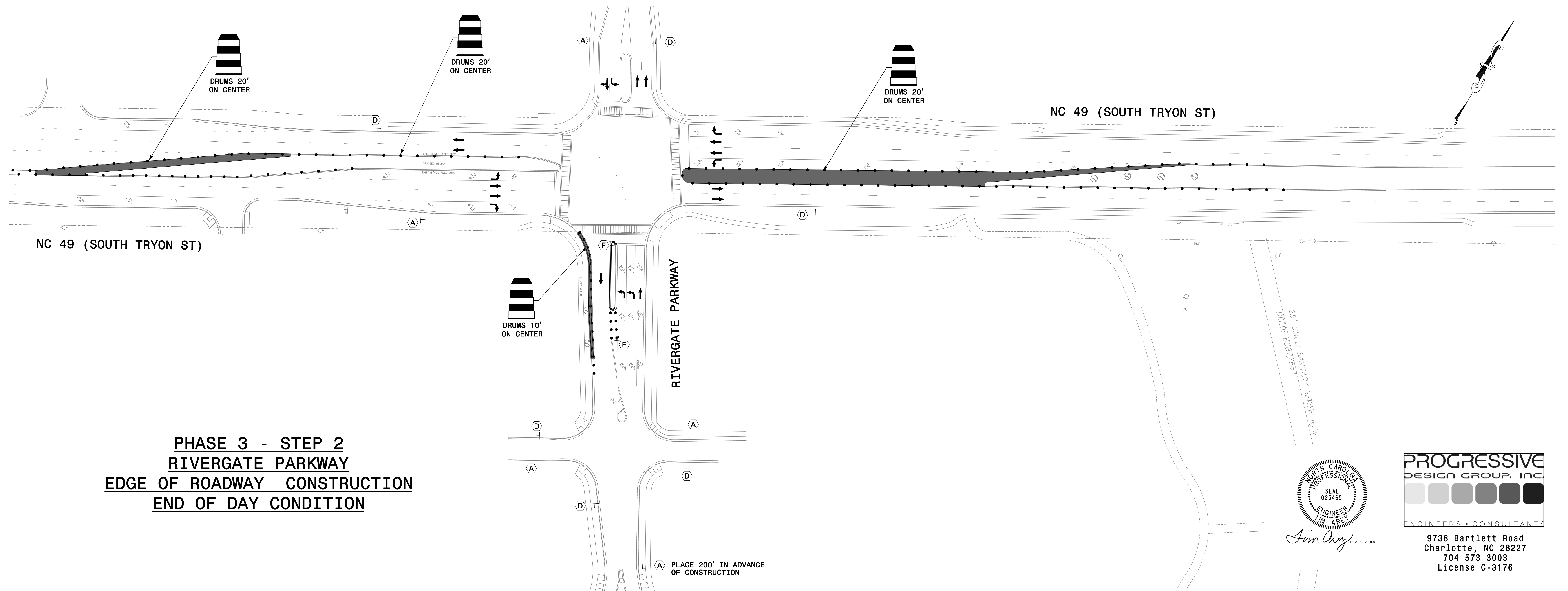
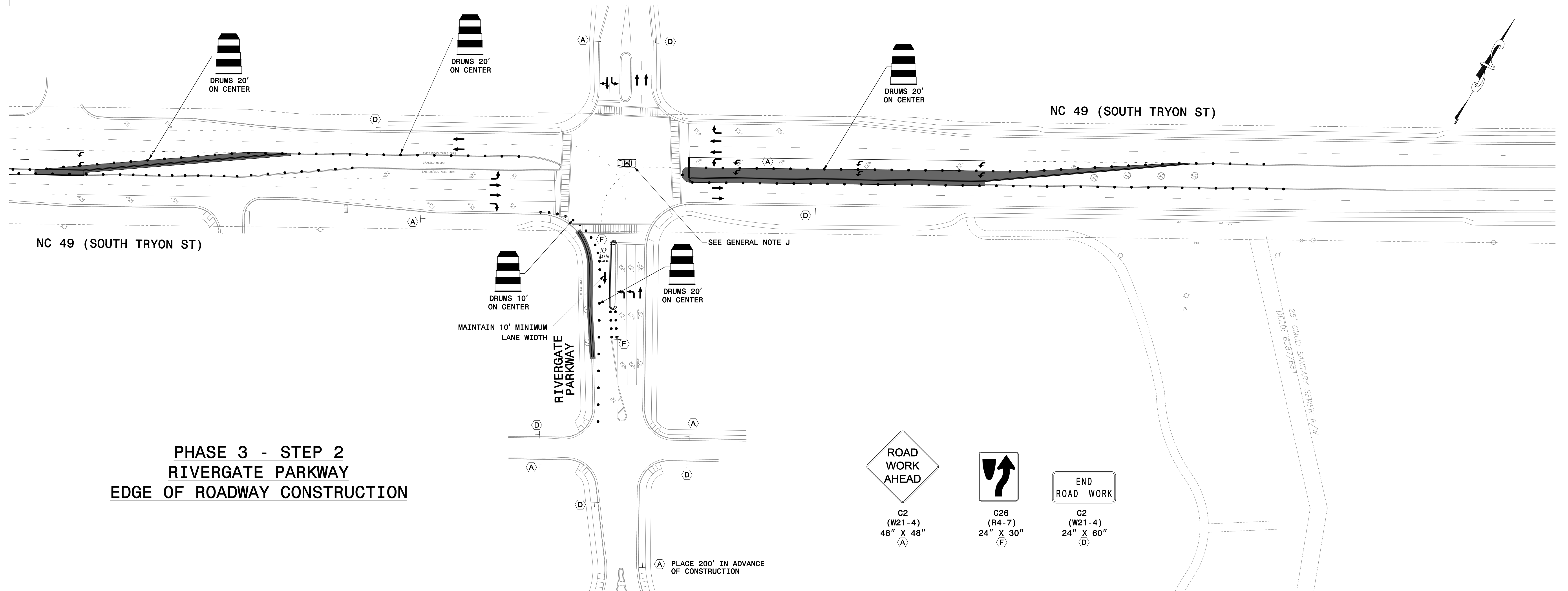
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TRAFFIC CONTROL PLAN  
PHASE 3 - STEP 1  
NC 49 (SOUTH TRYON ST)

RIVERGATE  
CHARLOTTE, NC

TCP 3.1





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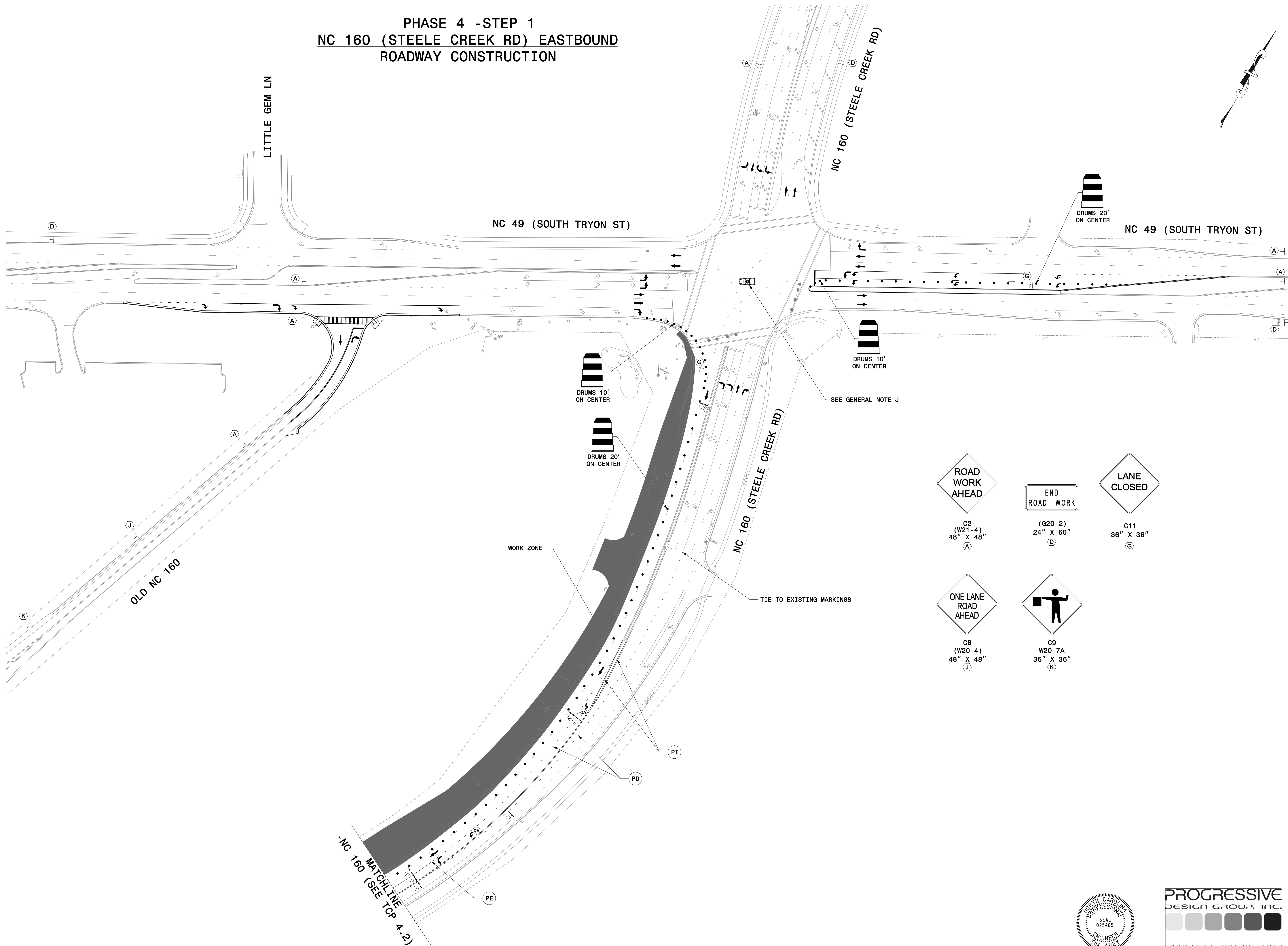
TRAFFIC CONTROL PLAN  
PHASE 3 - STEP 2  
NC 49 (SOUTH TRYON ST)

RIVERGATE  
CHARLOTTE, NC

TCP 3.2



PHASE 4 - STEP 1  
NC 160 (STEELE CREEK RD) EASTBOUND  
ROADWAY CONSTRUCTION



ROAD  
WORK  
AHEAD  
C2  
(W21-4)  
48" X 48"  
A

END  
ROAD WORK  
(G20-2)  
24" X 60"  
D

LANE  
CLOSED  
C11  
36" X 36"  
G

ONE LANE  
ROAD  
AHEAD  
C8  
(W20-4)  
48" X 48"  
J

C9  
W20-7A  
36" X 36"  
K



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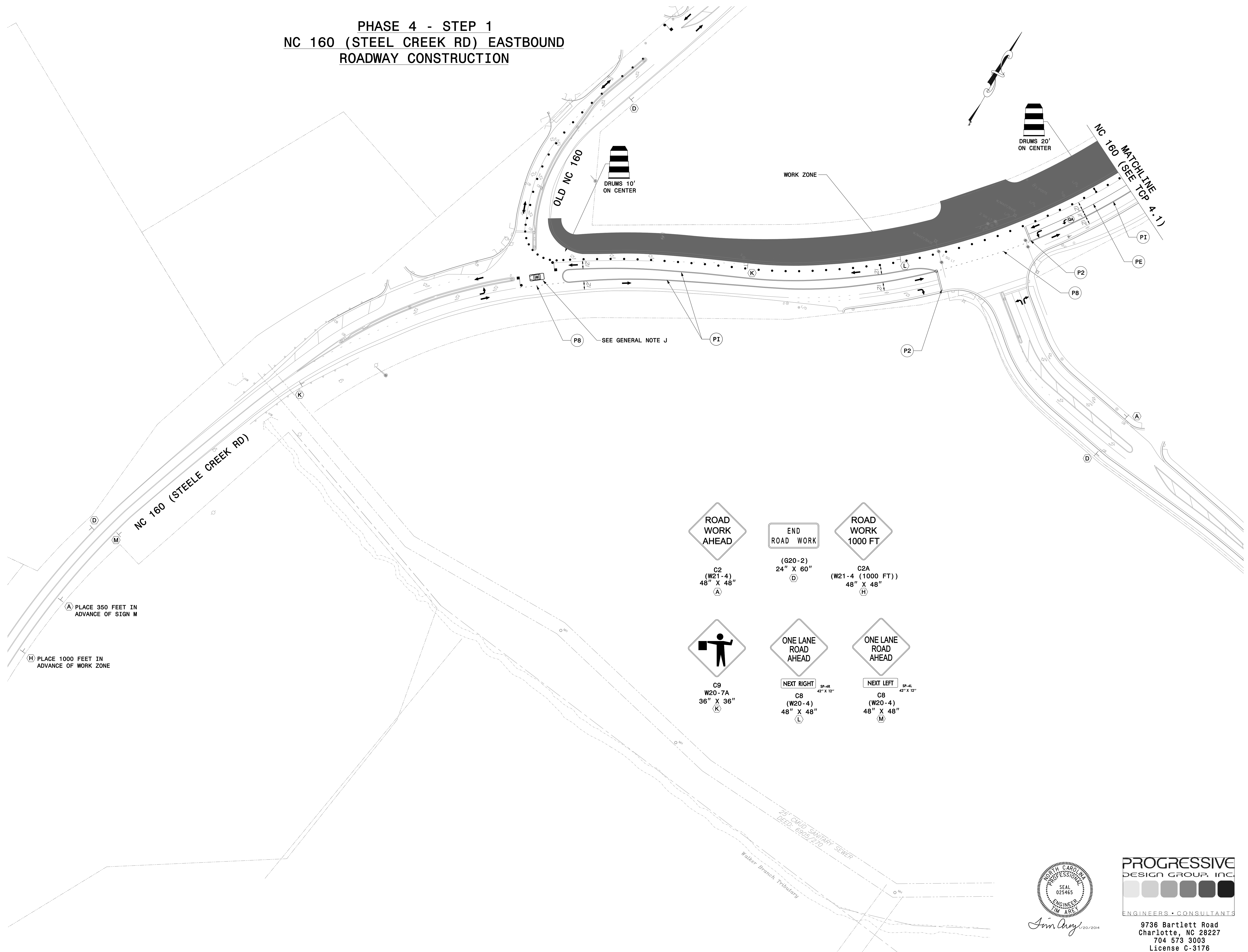
TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 1  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

TCP 4.1



PHASE 4 - STEP 1  
NC 160 (STEEL CREEK RD) EASTBOUND  
ROADWAY CONSTRUCTION



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TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

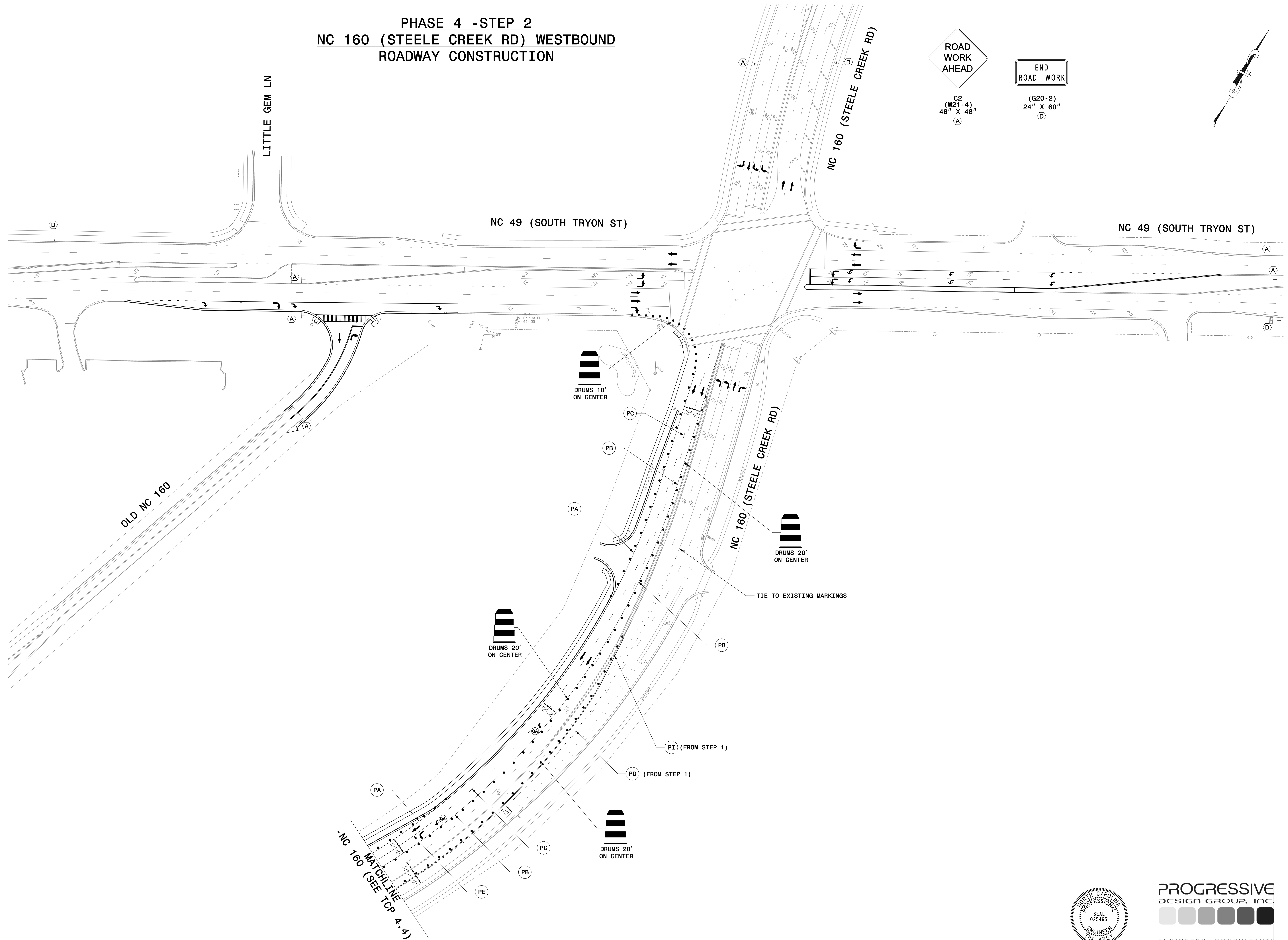
TCP 4.2



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PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD) WESTBOUND  
ROADWAY CONSTRUCTION



ROAD  
WORK  
AHEAD  
C2  
(W21-4)  
48" X 48"  
A

END  
ROAD WORK  
(G20-2)  
24" X 60"  
D

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TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD)

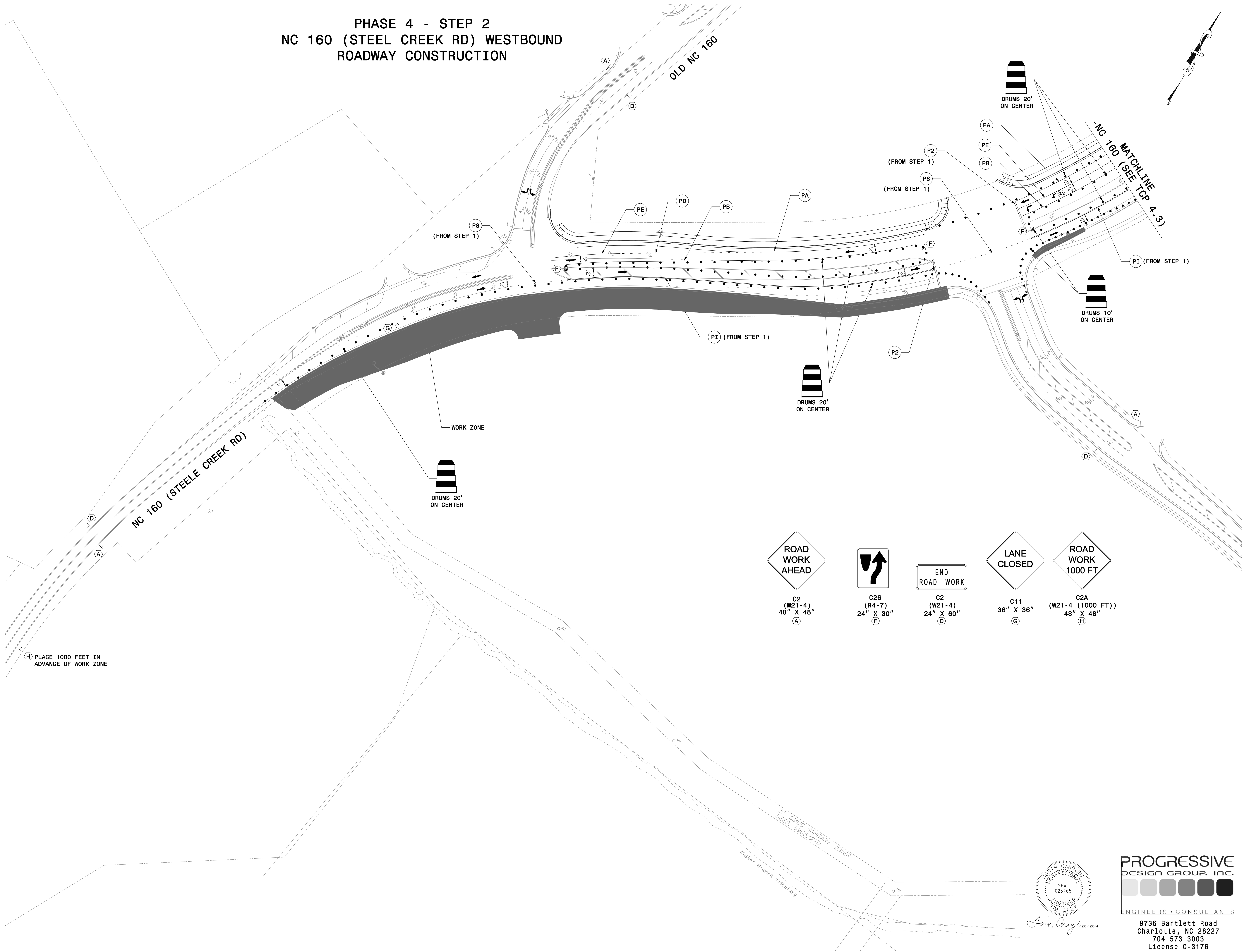
RIVERGATE  
CHARLOTTE, NC

TCP 4.3

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PHASE 4 - STEP 2  
NC 160 (STEEL CREEK RD) WESTBOUND  
ROADWAY CONSTRUCTION



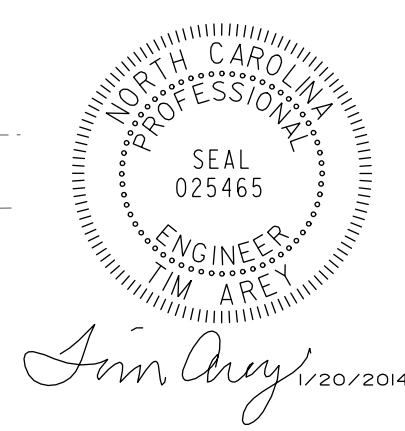
TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

TCP 4.4

|                |               |              |                 |                  |              |
|----------------|---------------|--------------|-----------------|------------------|--------------|
| PROJECT NUMBER | PROJECT TITLE | PROJECT TEAM | PROJECT MANAGER | PROJECT ENGINEER | PROJECT DATE |
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| 00000000       | 00000000      | 00000000     | 00000000        | 00000000         | 00000000     |
| 00000000       | 00000000      | 00000000     | 00000000        | 00000000         | 00000000     |
| 00000000       | 00000000      | 00000000     | 00000000        | 00000000         | 00000000     |
| 00000000       | 00000000      | 00000000     | 00000000        | 00000000         | 00000000     |
| 00000000       | 00000000      | 00000000     | 00000000        | 00000000         | 00000000     |
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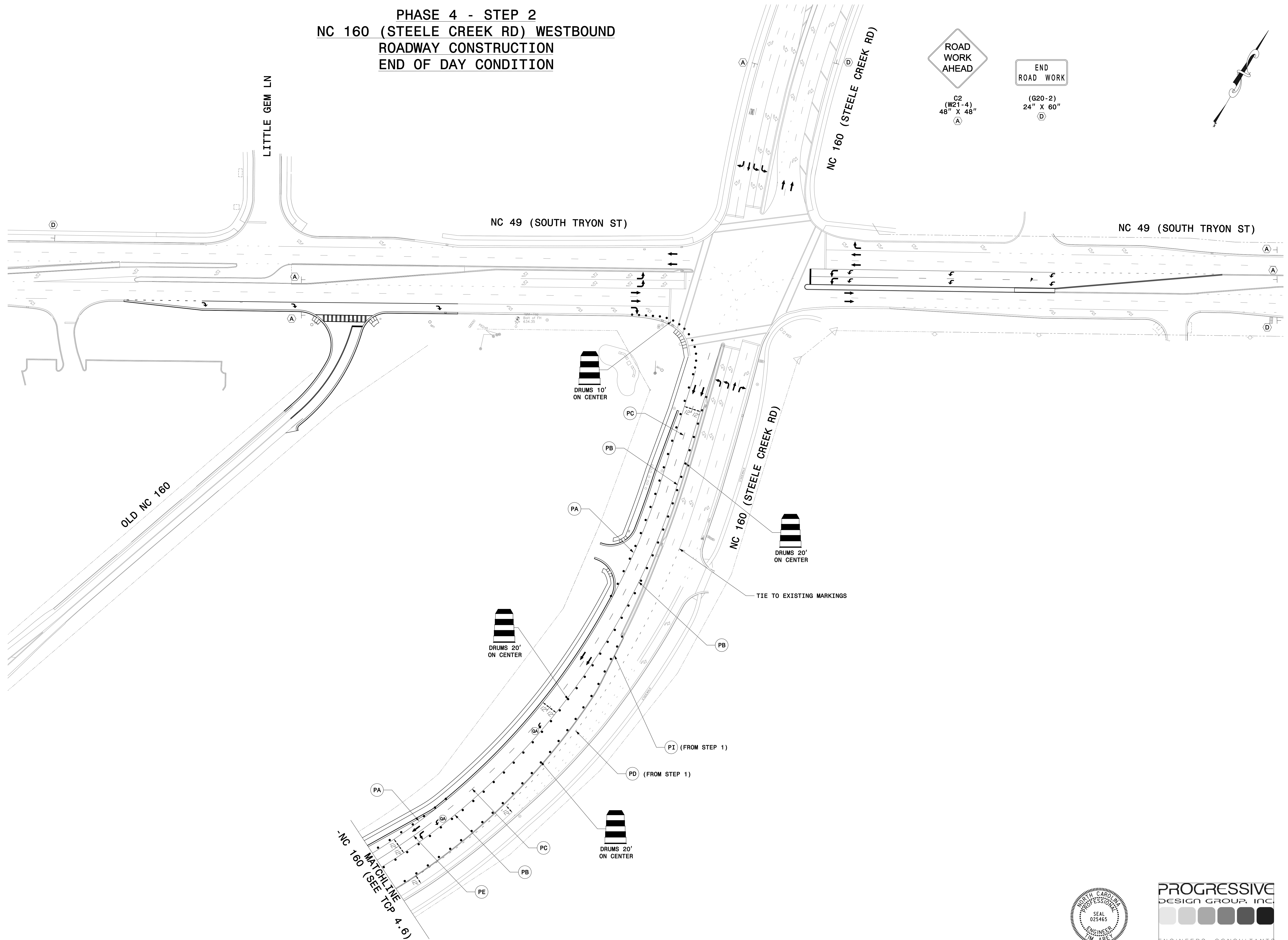
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PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD) WESTBOUND  
ROADWAY CONSTRUCTION  
END OF DAY CONDITION



ROAD  
WORK  
AHEAD  
C2  
(W21-4)  
48" X 48"  
A

END  
ROAD WORK  
(G20-2)  
24" X 60"  
D

DRUMS 10'  
ON CENTER

DRUMS 20'  
ON CENTER

DRUMS 20'  
ON CENTER

DRUMS 20'  
ON CENTER

TIE TO EXISTING MARKINGS

NC 160 (SEE TCP 4-6)  
MATCHLINE

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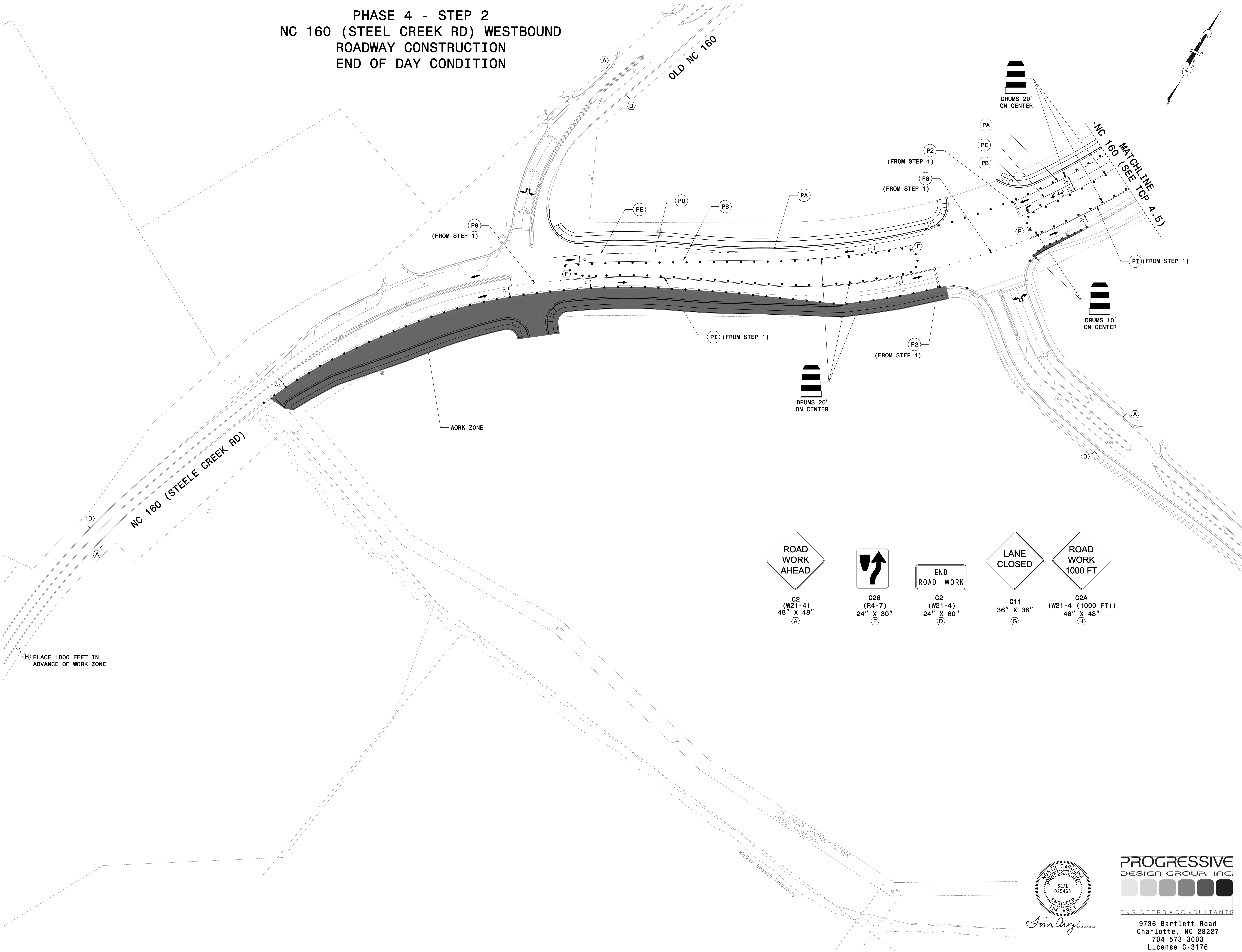
TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

TCP 4.5



PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD) WESTBOUND  
ROADWAY CONSTRUCTION  
END OF DAY CONDITION



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TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 2  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

TCP 4.6



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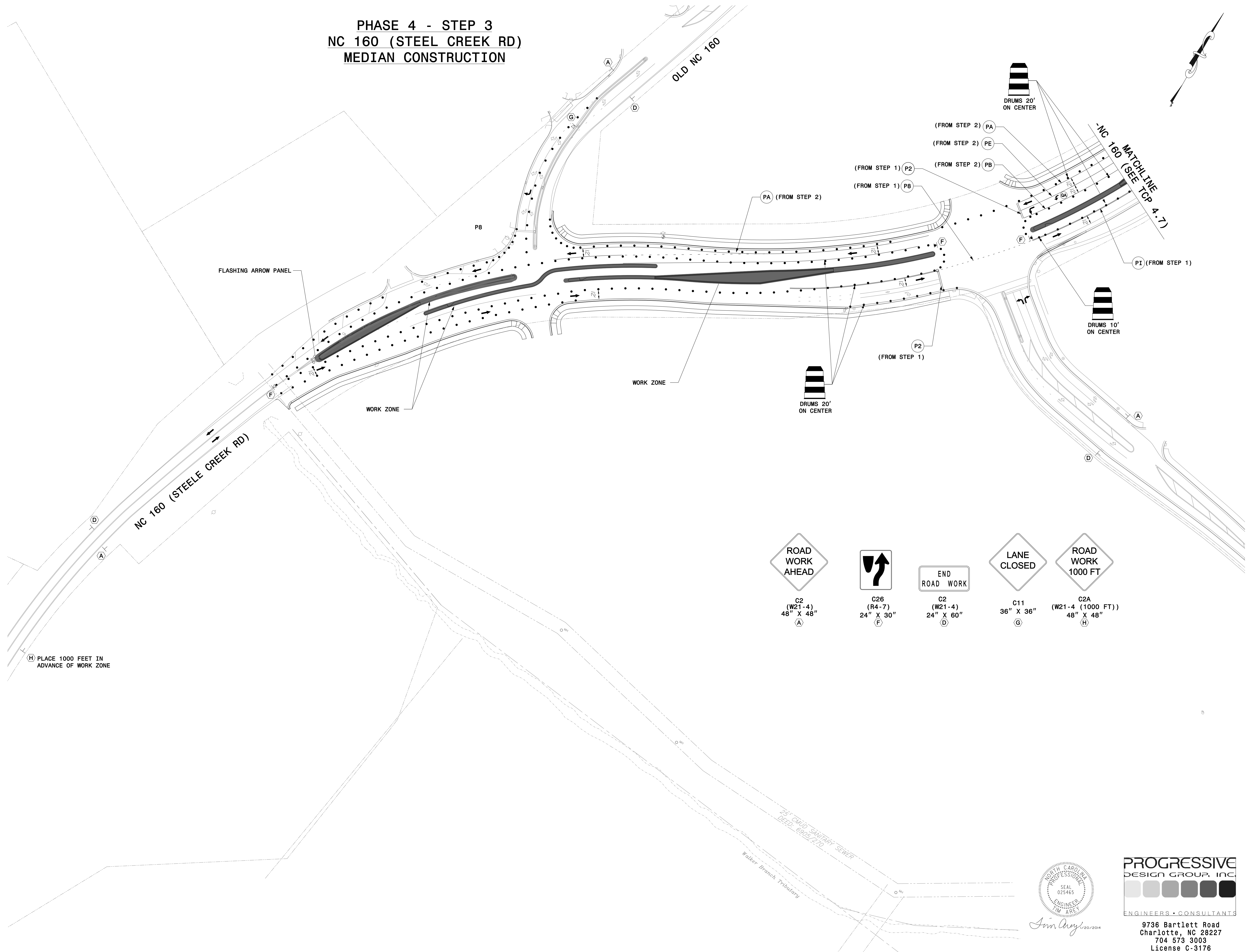
RIVERGATE  
CHARLOTTE, NC

TCP 4.7 /





PHASE 4 - STEP 3  
NC 160 (STEELE CREEK RD)  
MEDIAN CONSTRUCTION



| DATE          |  |
|---------------|--|
| REV.          |  |
| DRAWING SCALE |  |
| PROJECT DATE  |  |
| PROJECT NAME  |  |
| DESIGNED BY   |  |
| CHECKED BY    |  |
| DATE          |  |

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TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 3  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

TCP 4.8

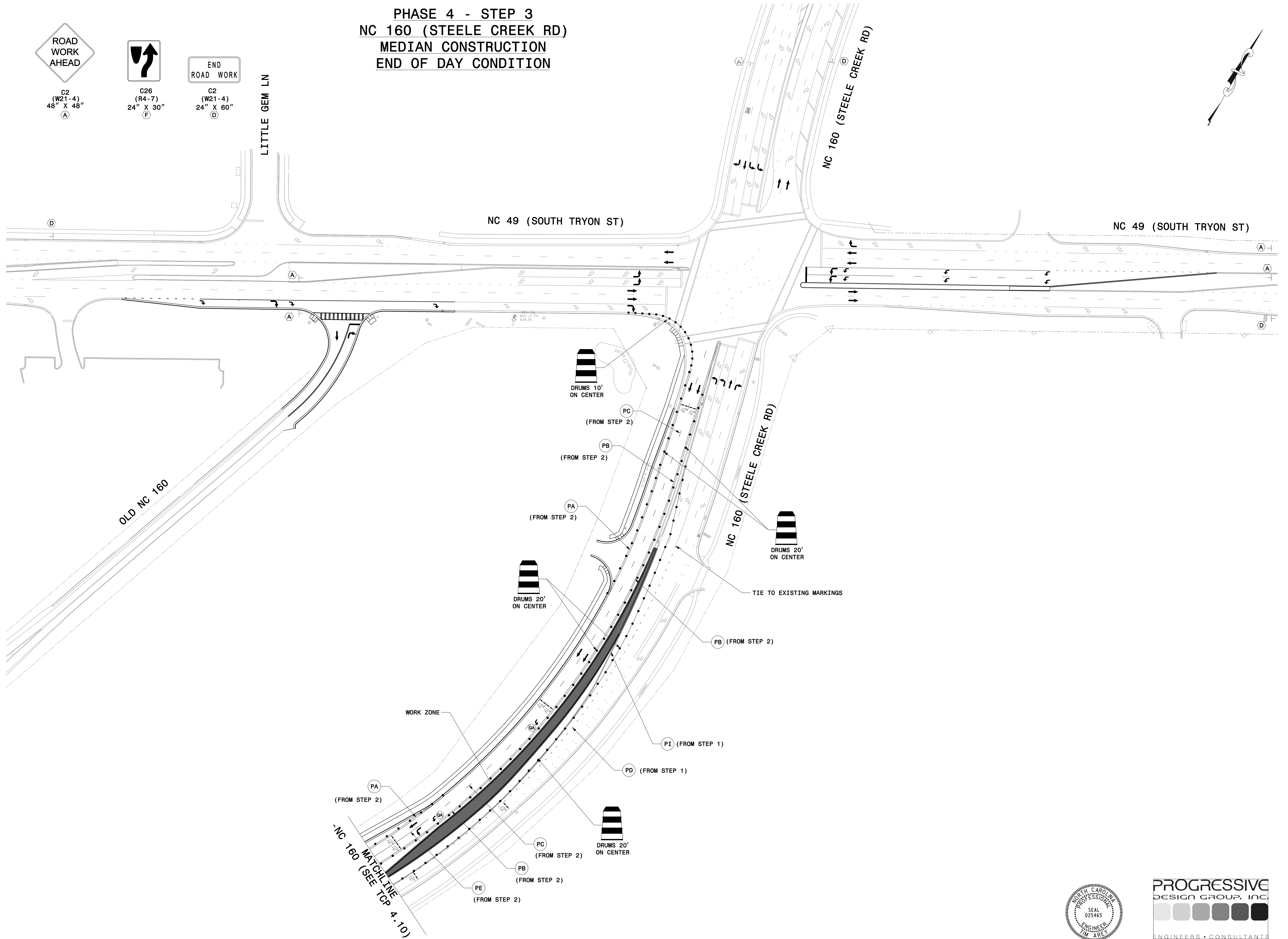


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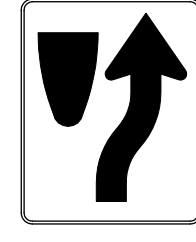
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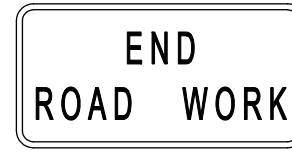
PHASE 4 - STEP 3  
NC 160 (STEELE CREEK RD)  
MEDIAN CONSTRUCTION  
END OF DAY CONDITION



C2  
(W21-4)  
48" X 48"  
A



C26  
(R4-7)  
24" X 30"  
F



C2  
(W21-4)  
24" X 60"  
D

LITTLE GEM LN

NC 49 (SOUTH TRYON ST)

NC 49 (SOUTH TRYON ST)

NC 160 (STEELE CREEK RD)

NC 160 (STEELE CREEK RD)

OLD NC 160

DRUMS 10'  
ON CENTER

(FROM STEP 2)

PB  
(FROM STEP 2)

PA  
(FROM STEP 2)

DRUMS 20'  
ON CENTER

DRUMS 20'  
ON CENTER

TIE TO EXISTING MARKINGS

PB (FROM STEP 2)

PI (FROM STEP 1)

PD (FROM STEP 1)

DRUMS 20'  
ON CENTER

PC  
(FROM STEP 2)

PB  
(FROM STEP 2)

PE  
(FROM STEP 2)

NC 160 (SEE TCP 4.10)

WORK ZONE



9736 Bartlett Road  
Charlotte, NC 28227  
704 573 3003  
License C-3176

| DATE             |  |
|------------------|--|
| REV.             |  |
| DRAWING SCALE    |  |
| PROJECT FILE     |  |
| PROJECT NUMBER   |  |
| PROJECT NAME     |  |
| PROJECT LOCATION |  |
| PROJECT DATE     |  |

GEOSCIENCE  
GROUP  
3800 Canton Road  
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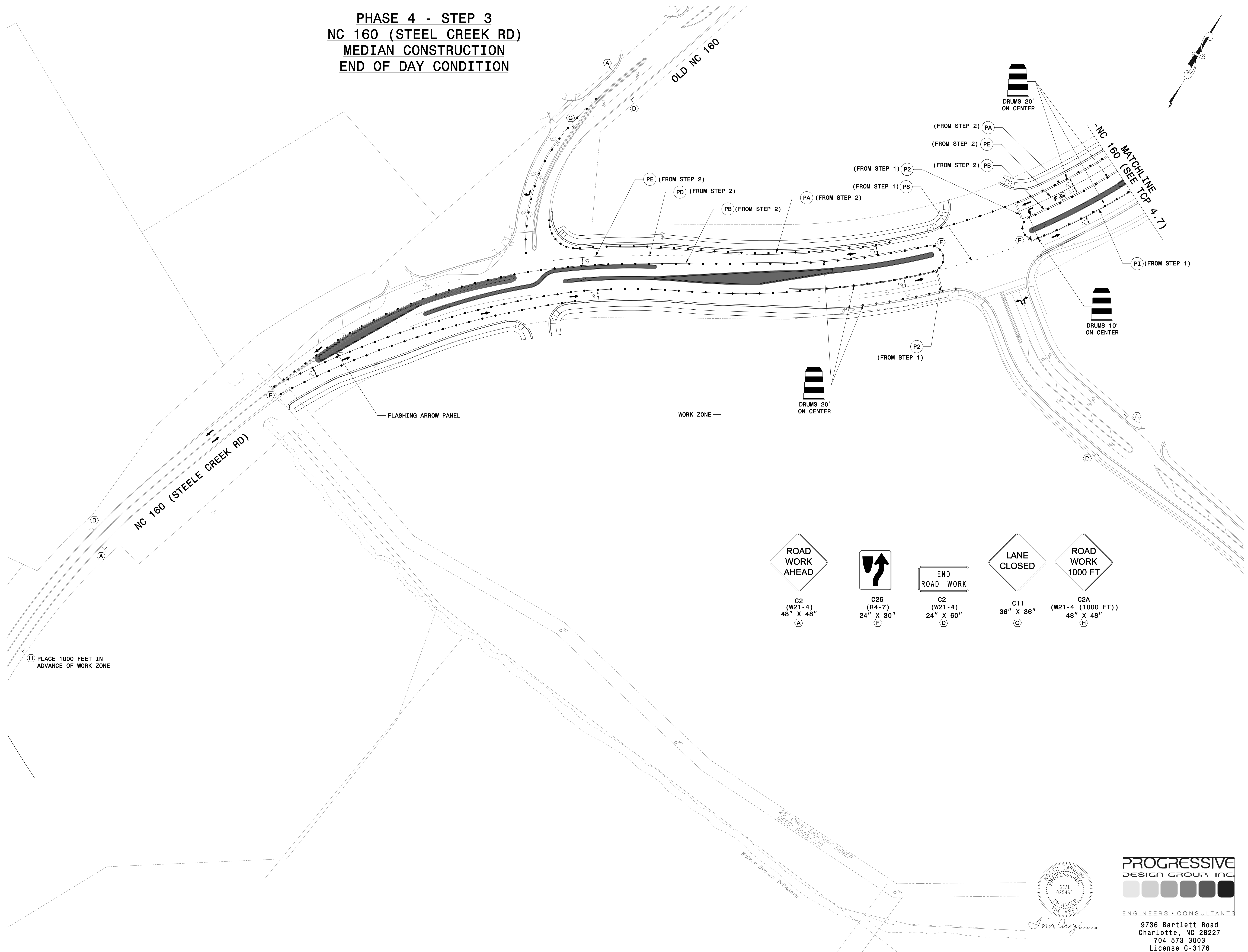
TRAFFIC CONTROL PLAN  
PHASE 4 - STEP 3  
NC 160 (STEELE CREEK RD)

RIVERGATE  
CHARLOTTE, NC

TCP 4.9



PHASE 4 - STEP 3  
NC 160 (STEELE CREEK RD)  
MEDIAN CONSTRUCTION  
END OF DAY CONDITION



H PLACE 1000 FEET IN  
ADVANCE OF WORK ZONE

- ROAD  
WORK  
AHEAD

C2  
(W21-4)  
48" X 48"  
A
- C26  
(R4-7)  
24" X 30"  
F
- END  
ROAD WORK

C2  
(W21-4)  
24" X 60"  
D
- LANE  
CLOSED

C11  
36" X 36"  
G
- ROAD  
WORK  
1000 FT

C2A  
(W21-4 (1000 FT))  
48" X 48"  
H



**PROGRESSIVE**  
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| DATE | REV. |
|------|------|
|      |      |
|      |      |
|      |      |
|      |      |
|      |      |

| PROJECT MANAGER | PROJECT ENGINEER | PROJECT NAME | PROJECT NUMBER | PROJECT DATE |
|-----------------|------------------|--------------|----------------|--------------|
|                 |                  |              |                |              |
|                 |                  |              |                |              |
|                 |                  |              |                |              |
|                 |                  |              |                |              |

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**TRAFFIC CONTROL PLAN**  
**PHASE 4 - STEP 3**  
**NC 160 (STEELE CREEK RD)**

**RIVERGATE**  
**CHARLOTTE, NC**

**TCP 4.10**