



Addendum 5

May 8, 2026

**KINGS BRANCH AT ARROWOOD ROAD STREAM RESTORATION  
PHASE 2A  
MECKLENBURG COUNTY, NORTH CAROLINA**

BID DATE: May 20, 2026, 11:00 AM

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**MODIFICATIONS TO THE PROJECT MANUAL**

*SECTION VI – TECHNICAL SPECIFICATIONS (TECHNICAL SPECIAL PROVISIONS)*

2.10 Traffic Control

- Specification added

3.04 Rock Removal

- Specification added

**MODIFICATIONS TO THE BID TAB**

2.10 TRAFFIC CONTROL

- Item added

3.04 ROCK REMOVAL

- Item added

**MODIFICATIONS TO THE CONSTRUCTION DRAWINGS**

Sheet C-4.1:

- Updated cut line for Tributary 2

Sheet C-7.0:

- Updated cut line for Tributary 2

Sheet C-7.2:

- Updated cut line for Tributary 2

Sheet C-8.0:

- Percent mix values updated for River Oats and Switchgrass

Sheet C-9.1:

- Construction entrance, LOD, and notes updated

Sheet C-9.2:

- Updated notes

Sheet C-10.3:

- Temporary Ditch Crossing with Pipe detail updated to show no mitered/tapered ends

## **RESPONSE TO QUESTIONS**

**The deadline for questions was April 30, 2026.**

1. Given the project timeline, as well as the size of the project and the time required to identify and engage MWBE firms, we respectfully request a bid date extension.

**The County is granting a 1-week bid extension. Bids will be due Wednesday, May 20. Prime Contractors wishing to submit a bid for this project must provide a MANDATORY written Letter-of-Interest to the County's authorized Design Consultant at least 48 hours in advance of the bid opening to be placed on the official Bidders List for automatic distribution of potential addenda and offered consideration by the County as a responsive bidder.**

2. Can a detail for the Temp Utility Crossing item be provided?

**The temporary utility crossing is intended to act as an additional layer of reinforcement to relieve ground pressure applied to the sanitary sewer during the movement of construction equipment. It is anticipated that a steel plate or similar will be used as the temporary utility crossing.**

3. Can excess brush and trees be left on site in the spoil area?

**No, excess brush and trees will need to be hauled off site. Only excess cut is to be disposed of in the spoils area.**

4. Can mulch from the haul road be left on site after the completion of the project?

**Yes, mulch from the haul roads can be left on site following the notes provided for disturbed areas included in the Vegetation Notes and Details (C-8.0)**

5. Due to the amount of traffic observed on Arrowood Road, can an alternate construction entrance be added?

**It should be assumed that the only construction entrance for the site is along Arrowood Road as shown in the plans. Any alternate entrances proposed by the contractor can be negotiated separately.**

6. Due to the amount of traffic observed on Arrowood Road, can a Traffic Control bid line item be added?

**A traffic control specification has been added to the project manual, and a line item has been added to the bid tab accordingly.**

7. Are there any time-of-year restrictions for tree clearing or in-stream construction, or is that yet to be determined?

**There is no requirement, but USFWS encourages avoiding tree clearing from May 1 – July 15 and from December 15 – February 15.**

8. What percentage of the stone required for in-stream structures is expected to be harvested from the existing channel?

**The contractor is encouraged to visit the site to determine existing conditions; however, there is no expectation that stone will be harvested from the existing channel.**

9. Is the contractor required to provide a certified as-built?

**No, a sub-consultant to Kimley-Horn will complete a detailed as-built survey of the project corridor after completion of the project.**

10. Can you provide the engineer's cut/fill calculations?

**The estimated quantities are not based on any geotechnical information. No shrink or swell factor was used in this estimate.**

**Estimated cut: 14,400 CY**

**Estimated fill: 4,500 CY (in channel)**

**The earthwork quantity estimate provided above is based on the latest revised construction plans. These earthwork quantities are provided as an estimate for bidding purposes and are in no way guaranteed. It is the Contractor's responsibility to complete an independent quantity take off based on the Construction Plans.**

**If requested, AutoCAD Civil3D files can be provided to contractors to complete earthwork take-offs. The digital files are for estimation purposes only – the signed and sealed plans are the only official documents. Contact Claire Paulino at [claire.paulino@kimley-horn.com](mailto:claire.paulino@kimley-horn.com) directly for AutoCAD files and they will be provided.**

11. The project manual states that (2) construction signs are required, but only (1) is shown on the bid tab. Please clarify.

**Only 1 construction sign is required. The project manual has been updated accordingly.**

12. Is there data available on the flow in the channel?

**Base flow rates are not provided. Stream stage data from the Kings Branch at Arrowood Rd FMP54 gauge is available at [finslive.mecklenburgcountync.gov](http://finslive.mecklenburgcountync.gov). Peak flow rates for different storm events can be found using the USGS StreamStats tool.**

13. Is sufficient woody material available on-site for the construction of in-stream structures?

**The contractor is encouraged to visit the site to determine existing conditions.**

14. Is on-site soil expected to be suitable for channel blocks, and are these incidental to grading?

**Contractor should assume that on-site soil is suitable for channel blocks. Channel blocks are incidental to grading.**

15. What is the expected area of herbicidal NNI treatment?

**The expected area of herbicidal NNI treatment is approximately 6.5 acres. This assumes treatment on the full extent of the County parcels within the LOD (PID 20517492 and 20517136) as well as treatment of the spoils property (PID 20517107) within the LOD.**

16. What percentage of the haul road is expected to require mulch, and can mulch be wasted in the on-site spoil area?

**It is anticipated that any mulch necessary for haul roads can be sourced on-site. Mulch is incidental to the grading. Mulch cannot be wasted in the on-site spoil area.**

17. According to the project manual, traffic control should have a pay item on the bid form. Is there a traffic control plan for vehicular and pedestrian traffic signage?

**A traffic control specification (2.10 – Traffic Control) has been added to the project manual, and a line item has been added to the bid tab accordingly.**

18. Can excess woody debris be left in on-site habitat piles and/or chipped and spread over the spoil area for stabilization?

**No, excess brush and trees will need to be hauled off site. Only excess cut is to be disposed of in the spoils area.**

19. What size and type of pipe is required for the temporary ditch crossing?

**A 24" HDPE pipe can be used for the temporary ditch crossing. The pipe is incidental to temporary crossing.**

20. Can you confirm that there is sufficient on-site topsoil to strip and respread, and that no topsoil import will be required?

**The contractor should assume no additional topsoil will be brought in from off-site. However temporary stockpiling of onsite topsoil may be required.**

21. Can you grant a 1-week extension on the bid due date to allow adequate time to secure MWBE participation after receiving responses to the questions?

**The County is granting a 1-week bid extension. Bids will be due Wednesday, May 20.**

22. The project manual states "QUANTITY TICKETS - All quantity tickets for items not measurable in place shall be submitted to the Engineer within seventy-two (72) hours after receipt of the material on the job. Each ticket shall indicate the date, Contractor, job location and name, type of material, quantity of material, truck number and signature of the Contractor or his authorized representative. No tickets will be accepted after seventy-two (72) hours have elapsed between the time of delivery and submittal of tickets to the Engineer." Please clarify what, if any, quantity tickets need to be provided for this project.

**Quantity tickets are not applicable to this project. The project manual has been updated to remove this section.**

23. Note #4 on Sheet #C-8.0 says to apply 1.5" of topsoil/compost mix over Zones A & B. Is the intent to simply mix in the compost with on-site topsoil, and is this meant to be applied at or above finished grade?

**Compost has been removed from the Organic Soil Amendments. The 1.5" of topsoil mix is intended to be applied above finished grade.**

24. Please confirm that the existing channel bed/stone material can be utilized in the construction of in-stream structures.

**The contractor is encouraged to visit the site to determine existing conditions; however, there is no expectation that stone will be harvested from the existing channel.**

25. The project manual (pg. #12) says to incorporate (leave in place) bedrock if encountered, unless the engineer requests that it be removed. Are you anticipating bedrock excavation? If so, will this be handled as a change order?

**Where feasible bedrock will be incorporated in the design however, a line item and specification have been added in the event rock removal is required.**

26. Is a pre- and post-construction CCTV inspection of the existing sanitary sewer lines required by the contractor, or is this being handled by Charlotte-Mecklenburg?

**Yes, pre- and post-construction CCTV inspection of the existing sanitary sewer lines are to be provided by the contractor. These inspections are incidental to the Haul/Access Roads (Technical Specification 2.04).**

27. There is not a detail in the plans for the Temporary Utility Crossing, unless that is referring to the Utility Bank protection.

**The temporary utility crossing is intended to act as an additional layer of reinforcement to relieve ground pressure applied to the sanitary sewer during the movement of construction equipment. It is anticipated that a steel plate or similar will be used as the temporary utility crossing.**

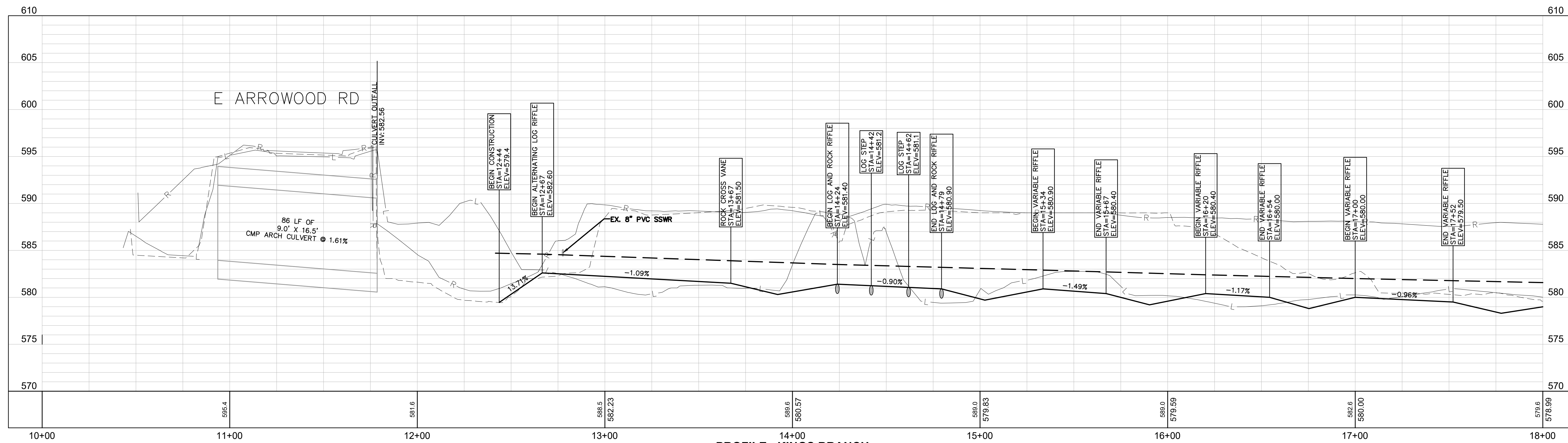
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This addendum **must** be acknowledged as Addendum No. 5 on the Execution of Bid/Proposal Signature Page.

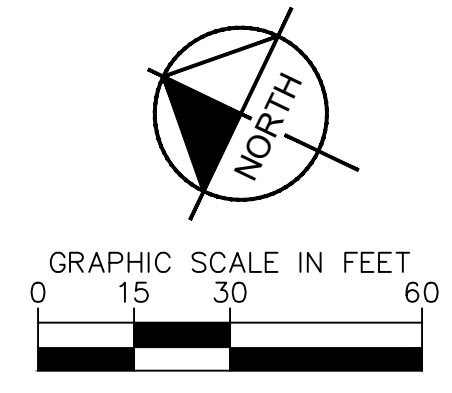
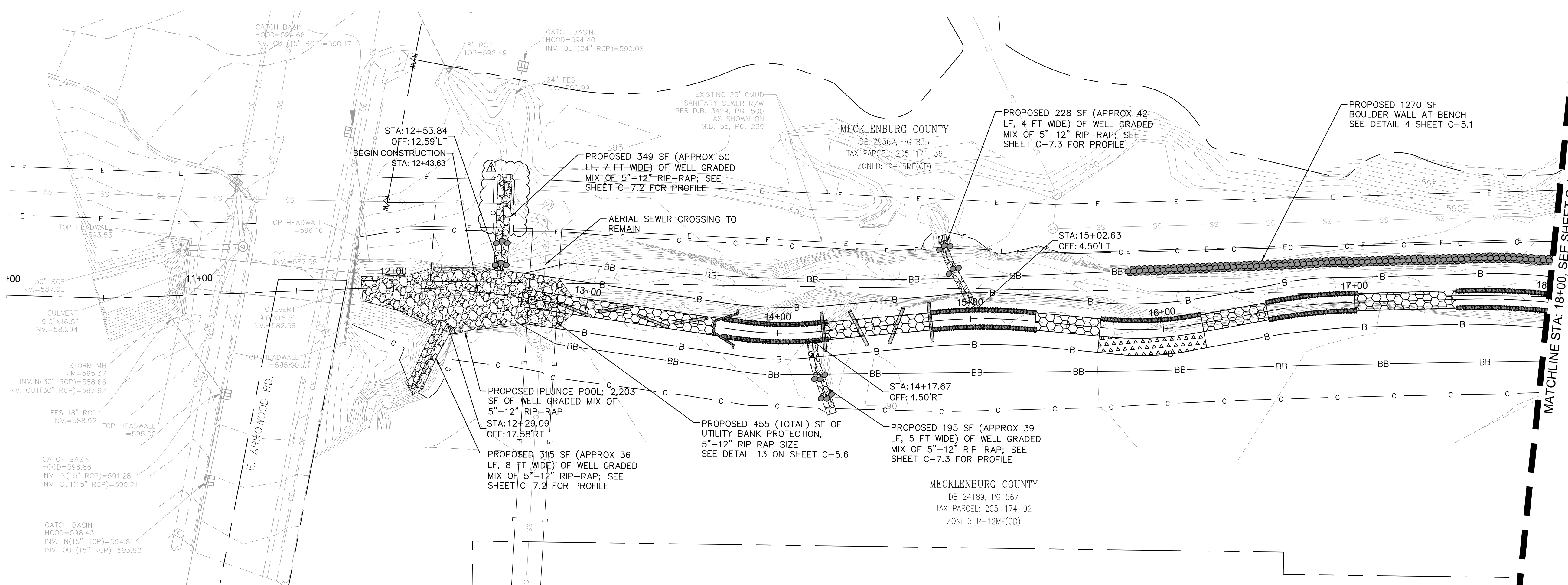


Claire Paulino, P.E.  
Kimley-Horn and Associates, Inc.

Plotted By: Reid, James Sheet: Sct: Kings Branch Phase 2A Layout: C-4.1 - PLAN-PROFILE May 06, 2026 01:28:14pm K:\CHL\_PRA\015236 mecklenburg county\075 kings branch phase 2\cadd\plan-profile.dwg



**PROFILE - KINGS BRANCH**  
Hor. Scale: 1"=30' | Vert. Scale: 1"=6'



MECKLENBURG COUNTY  
3205 FREEDOM DRIVE, SUITE 101  
CHARLOTTE, NC 28208

Plans Prepared By:  
**Kimley»Horn**  
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200 South Tryon Street, Suite 200  
Charlotte, NC 28202

NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	OUT LINE UPDATES



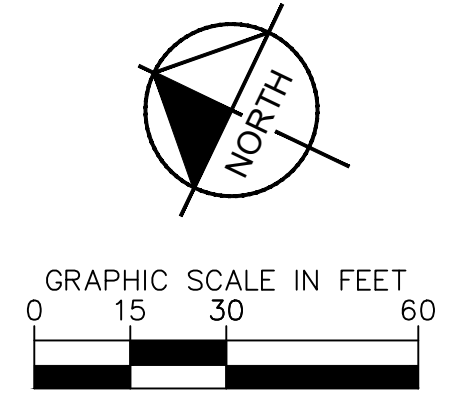
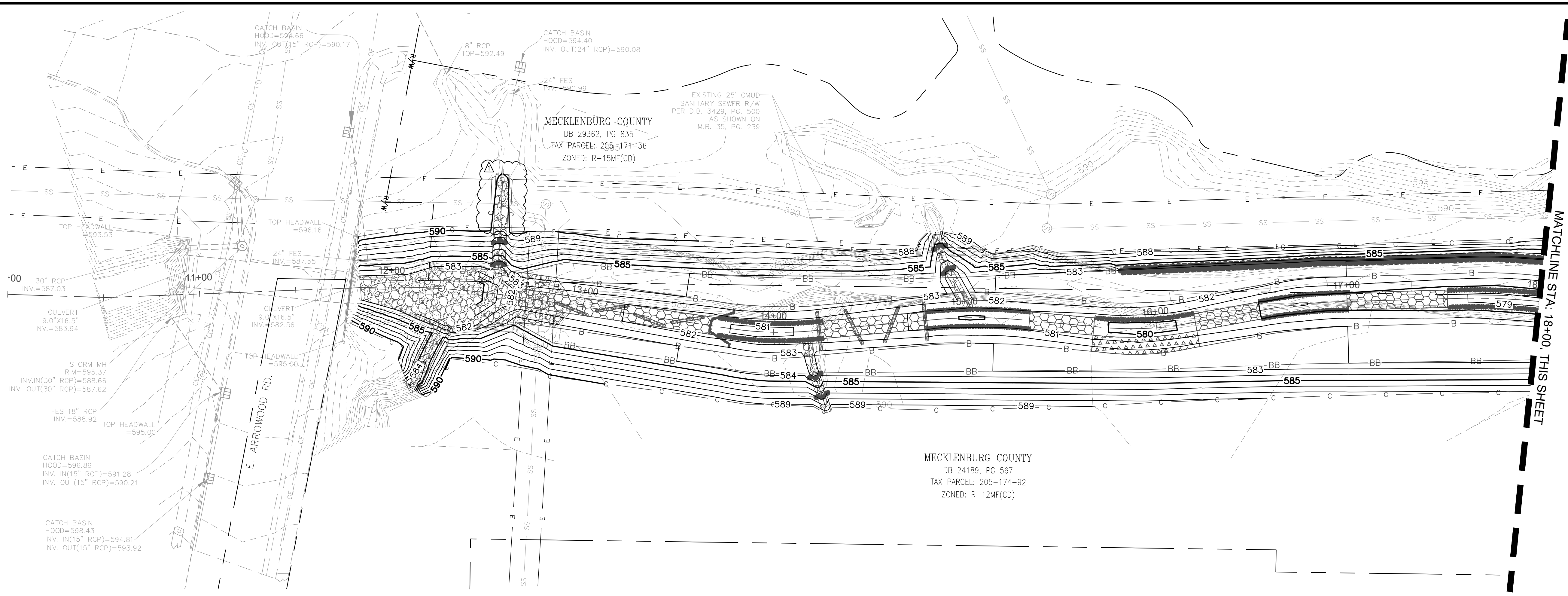
AS NOTED	SCALE	CEP	CHECKED BY	DATE
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SHEET	OF
C-4.1	33

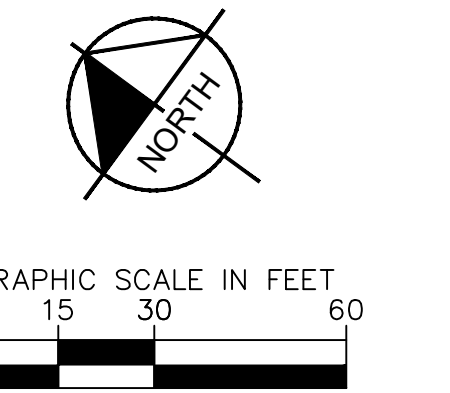
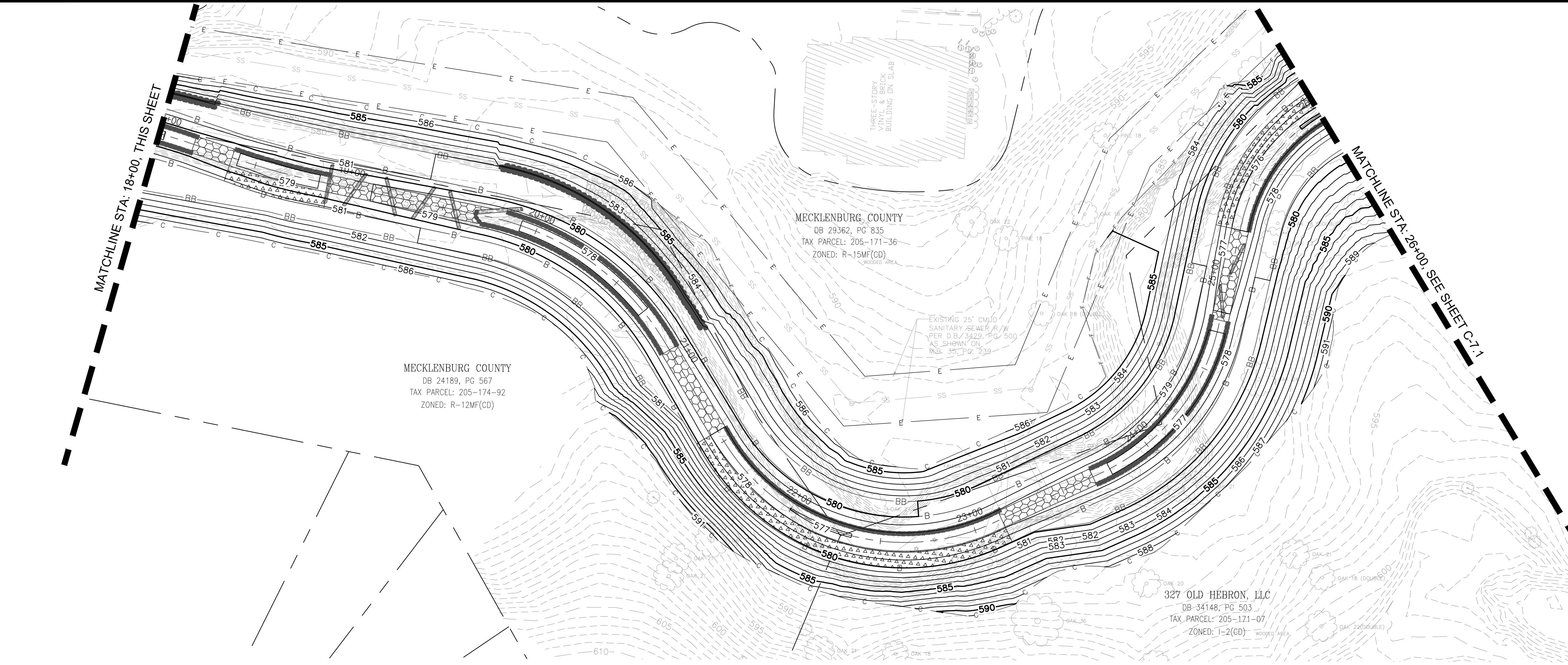


Know what's below.  
Call before you dig.

Plotted By: Reid, James. Sheet: Sct: Kings Branch Phase 2A. Layout: C-7.0 GRADING. May 06, 2026 01:27:02pm. K:\GTL\_PRA\015236 mecklenburg county\075 kings branch phase 2A\GTL\_PRA\015236 mecklenburg county\PHASE-2A\2A-C70-GRADING.dwg



MATCHLINE STA: 18+00, THIS SHEET



MATCHLINE STA: 18+00, THIS SHEET

MATCHLINE STA: 26+00, SEE SHEET C-7.1



MECKLENBURG COUNTY  
3205 FREEDOM DRIVE, SUITE 101  
CHARLOTTE, NC 28208

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NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	OUT LINE UPDATES



AS NOTED	SCALE	CEP	CHECKED BY	DATE
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		JCR	APPROVED BY	

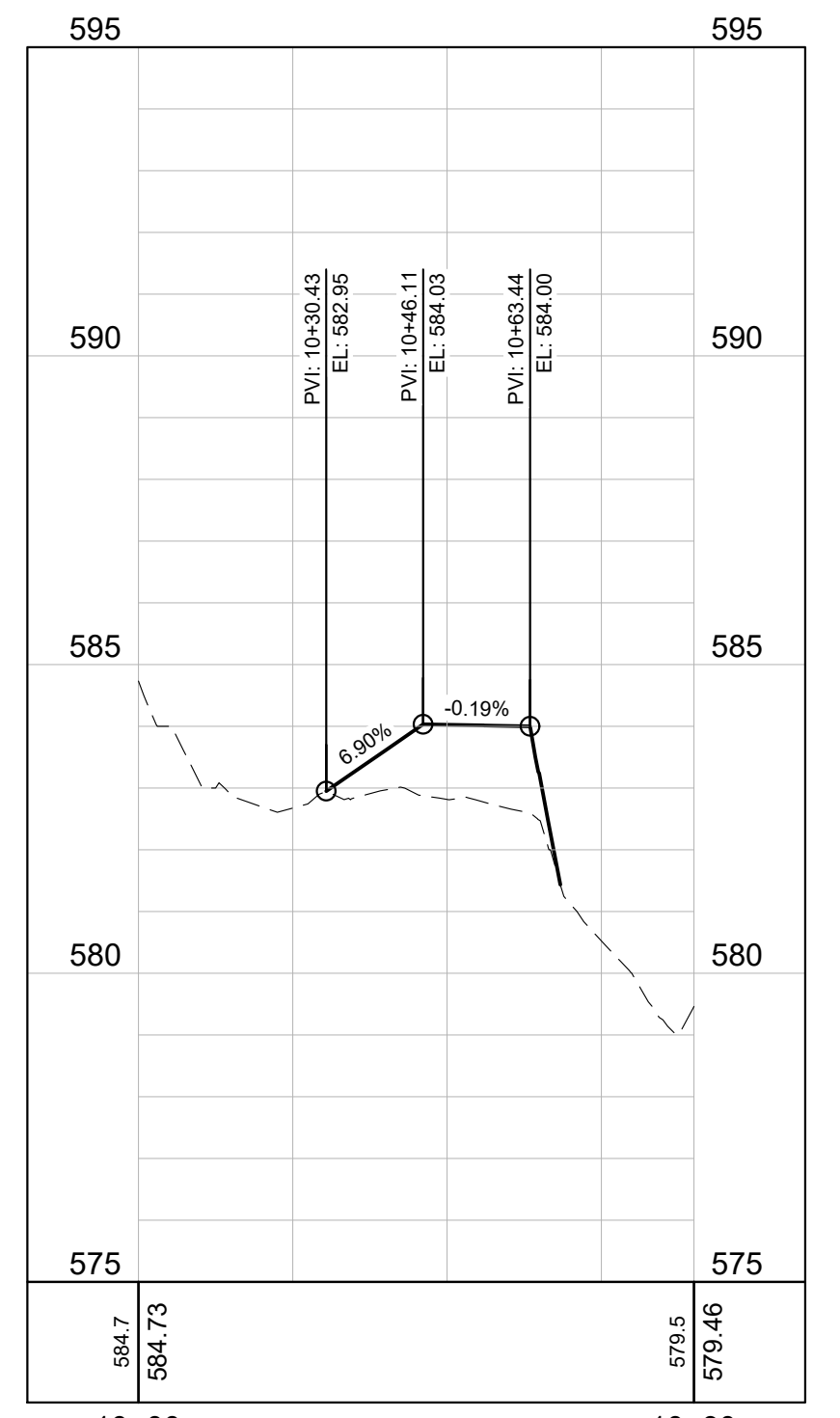
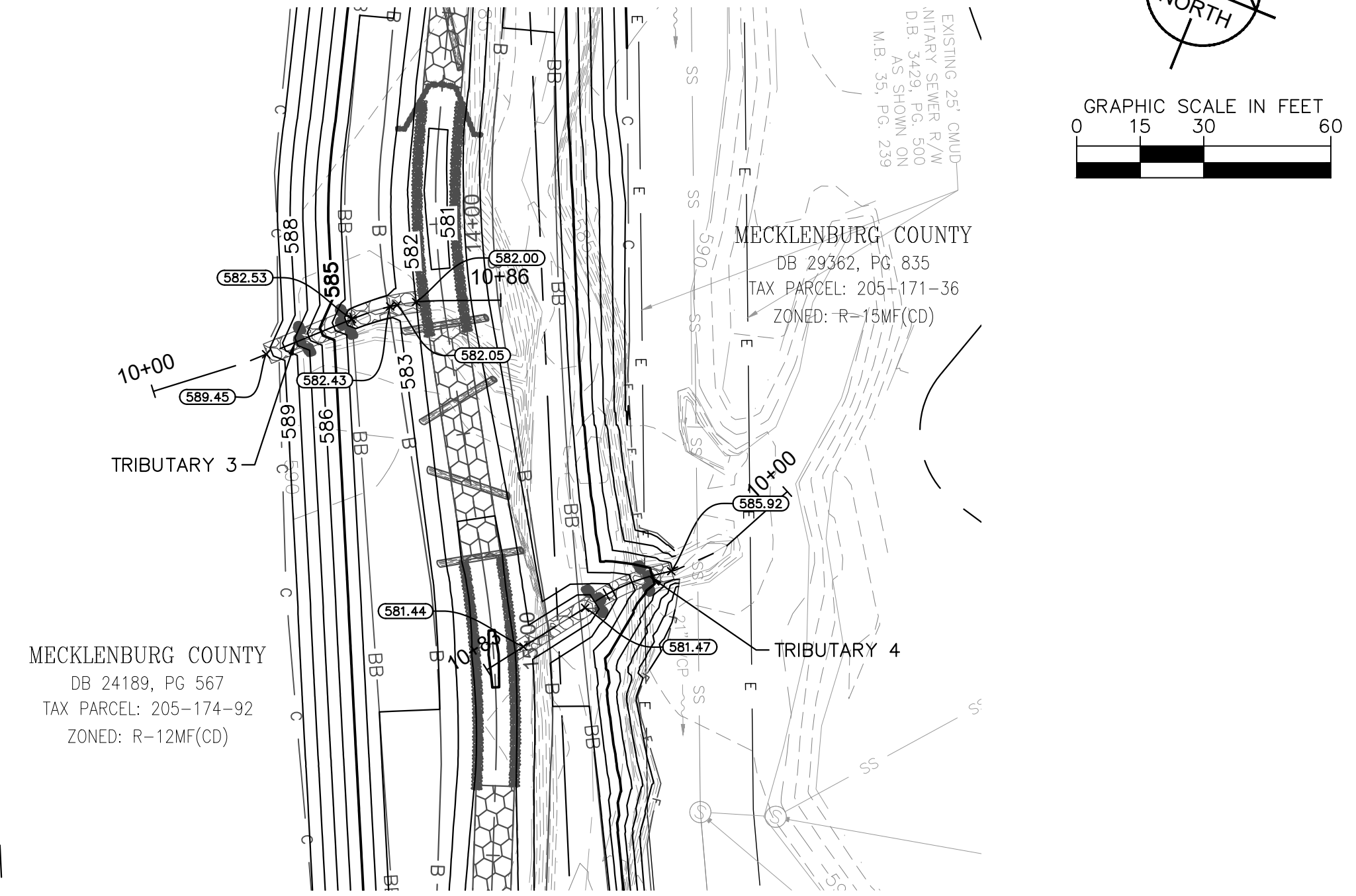
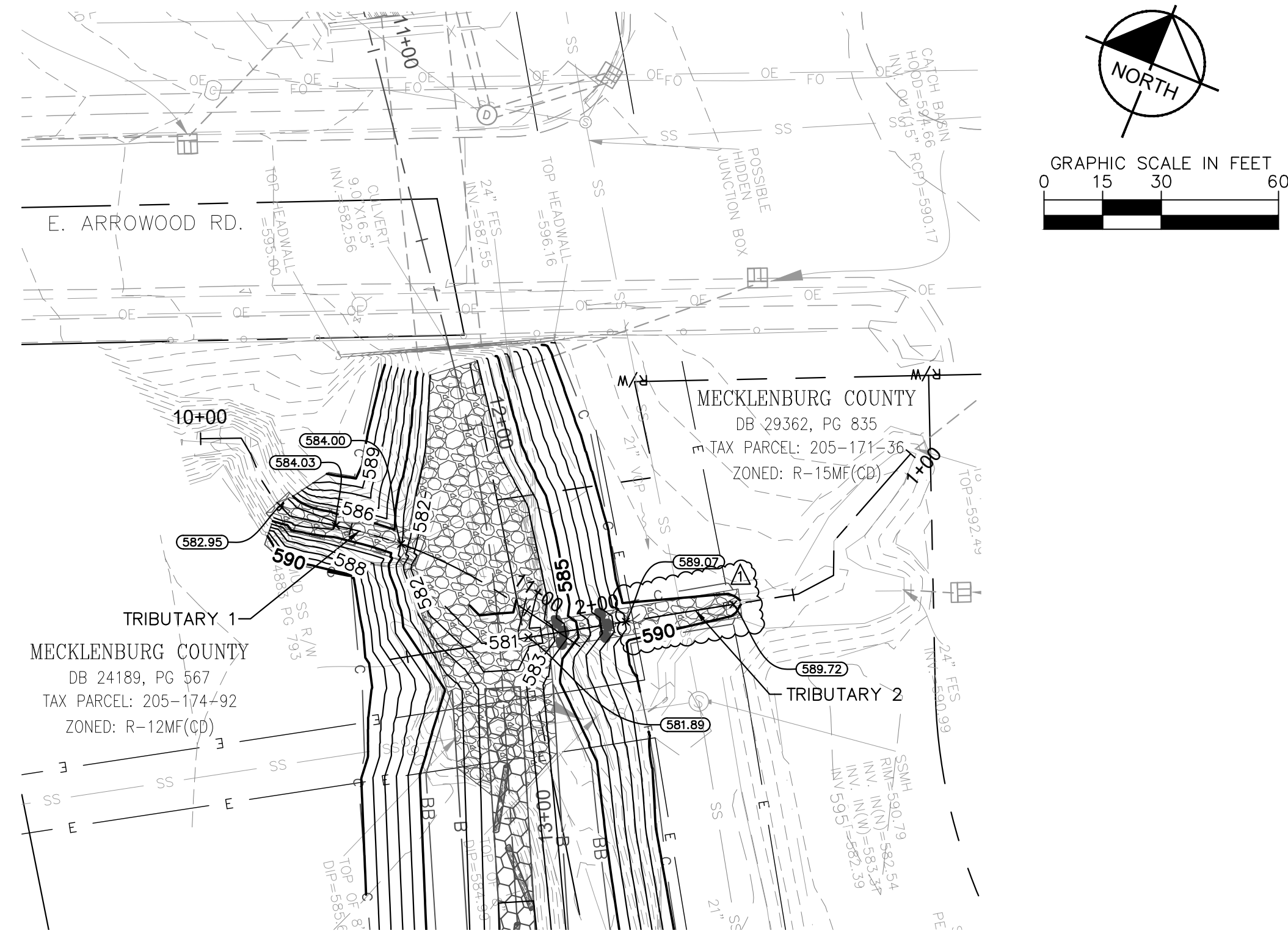
**KINGS BRANCH AT  
ARROWWOOD ROAD  
PHASE 2A**

SHEET **C-7.0** OF **33**

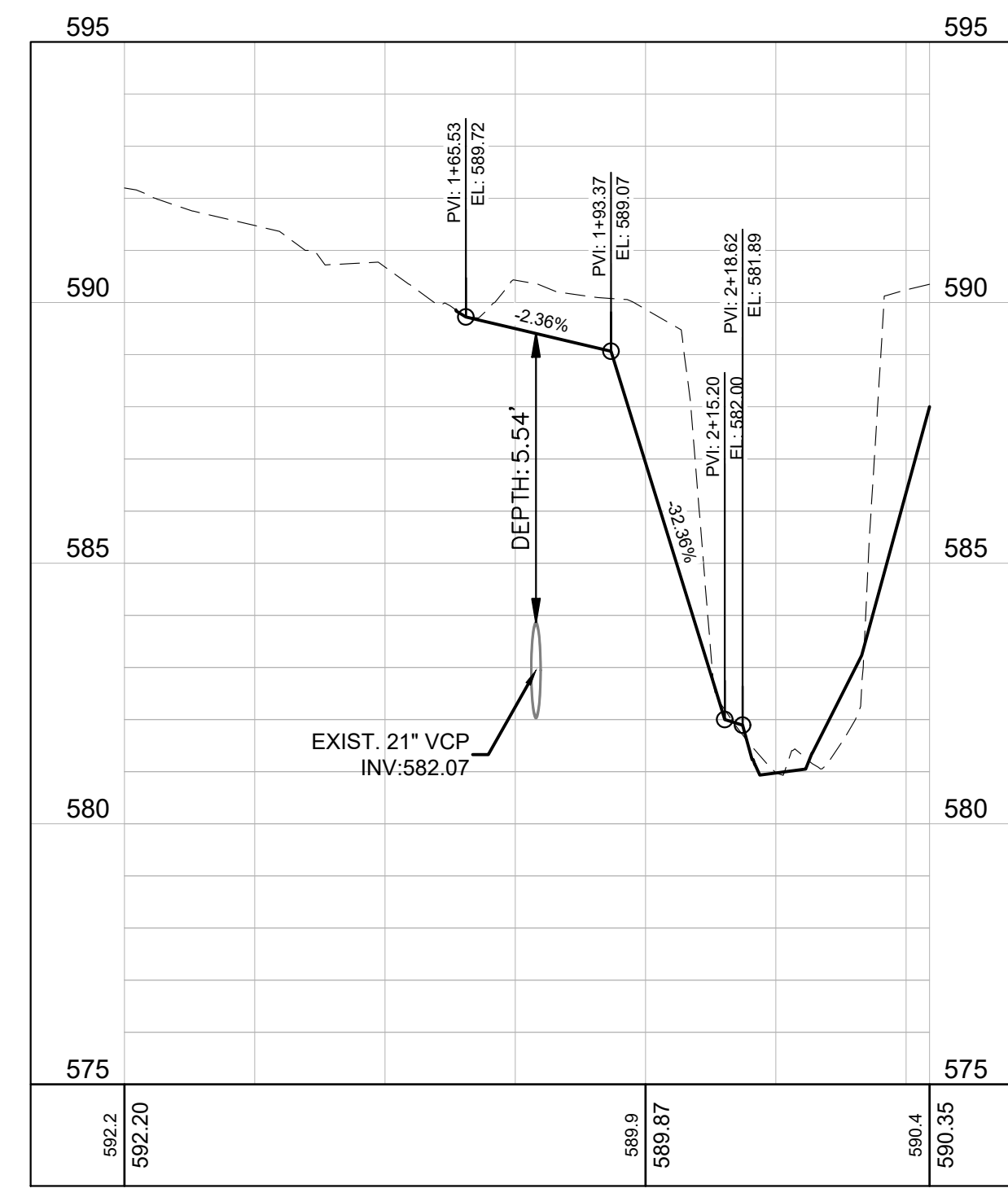
**GRADING PLAN**

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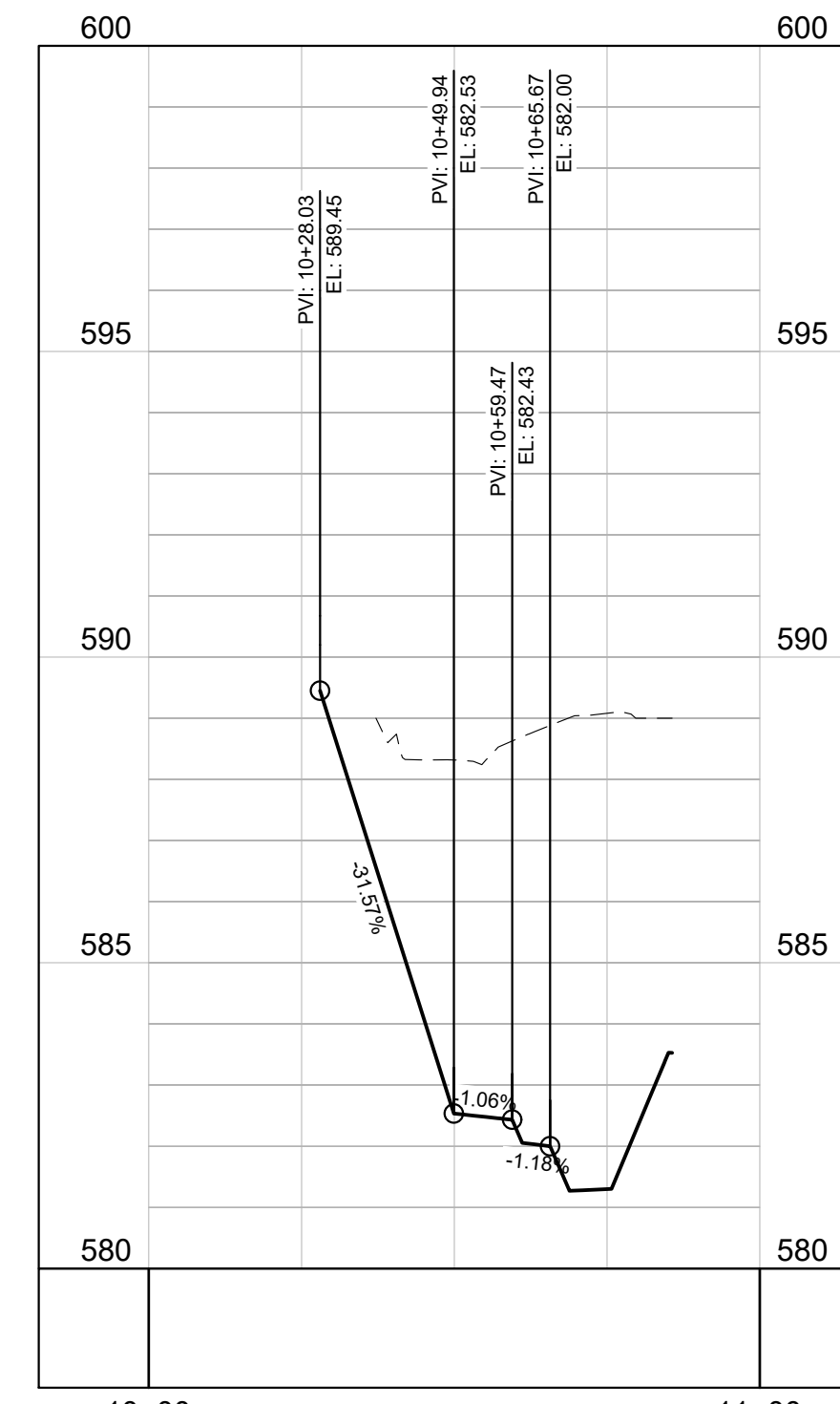
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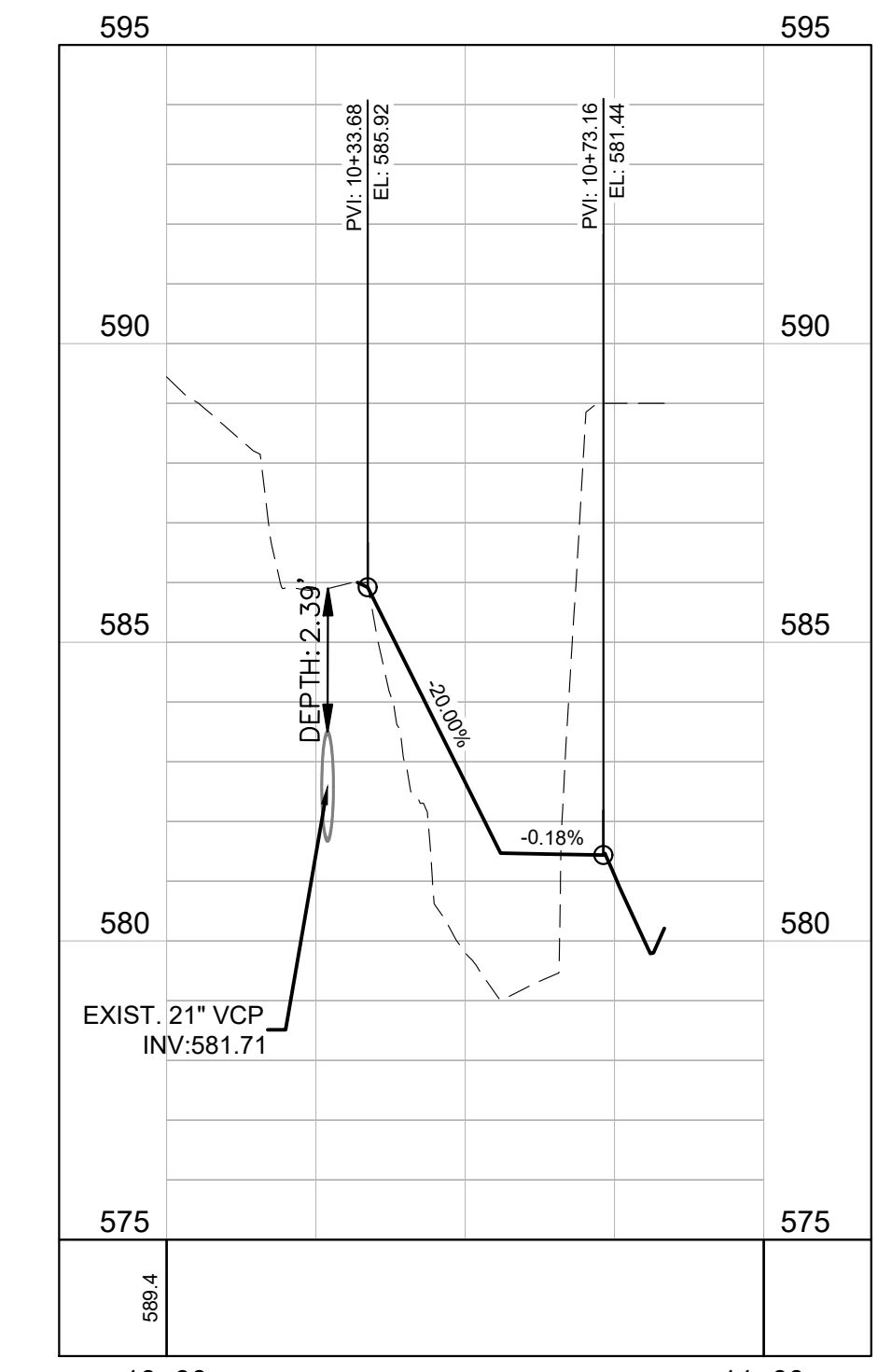
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TRIBUTARY 2 - APPROXIMATELY STA. 12+54  
Hor. Scale: 1"=30' | Vert. Scale: 1"=3'



TRIBUTARY 3 - APPROXIMATELY STA. 14+30  
Hor. Scale: 1"=30' | Vert. Scale: 1"=3'



TRIBUTARY 4 - APPROXIMATELY STA. 15+30  
Hor. Scale: 1"=30' | Vert. Scale: 1"=3'



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3205 FREEMAN DRIVE, SUITE 101  
CHARLOTTE, NC 28208

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NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	CUT LINE UPDATES



AS NOTED	SCALE	CHECKED BY	DATE
015016075	JOB NO.	JCR	04/15/2026
	PREPARED BY	JCR	
	APPROVED BY	JCR	

SHEET <b>C-7.2</b>	OF	<b>33</b>	KINGS BRANCH AT ARROWOOD ROAD PHASE 2A
			DITCH PLAN AND PROFILES

ZONES A & B – RIPARIAN SEED MIX (30 lbs/acre)

COMMON NAME	BOTANICAL NAME	PERCENT MIX
BLACKEYED SUSAN	<i>Rudbeckia hirta</i>	10
SOFT RUSH	<i>Juncus effusus</i>	10
DEERTONGUE	<i>Panicum clandestinum</i>	10
PARTRIDGE PEA	<i>Chamaecrista fasciculata</i>	10
PENNSYLVANIA SEDGE	<i>Carex pensylvanica</i>	5
RIVER OATS	<i>Chasmanthium latifolium</i>	10
BROOMSEDEGE	<i>Andropogon virginicus</i>	5
GOLDEN TICKSEED	<i>Coreopsis tinctoria</i>	5
LITTLE BLUESTEM	<i>Schizachyrium scoparium</i>	5
SWITCHGRASS	<i>Panicum virgatum</i>	10
PURPLETOP	<i>Tridens flavus</i>	5
BEAKED PANICGRASS	<i>Panicum anceps</i>	5
BEARDEAR BEGGARTICKS	<i>Bidens aristosa</i>	5
SWAMP SUNFLOWER	<i>Helianthus angustifolius</i>	5

TEMPORARY SEEDING (ALL ZONES)

COMMON NAME	BOTANICAL NAME	PERCENT MIX
AUG 15 - APR 30 (120 lb/acre)		
RYE GRAIN	<i>Lolium perenne</i>	80
CRIMSON CLOVER	<i>Trifolium incarnatum</i>	10
LADINO CLOVER	<i>Trifolium repens</i>	10
MAY 1 - AUG 14 (60 lb/acre)		
RYE GRAIN	<i>Secale cereale</i>	20
GERMAN MILLET	<i>Setaria italica</i>	60
CRIMSON CLOVER	<i>Trifolium incarnatum</i>	10
LADINO CLOVER	<i>Trifolium repens</i>	10

\*ADD FERTILIZER

ZONE C – STEEP SLOPE SEEDING

COMMON NAME	BOTANICAL NAME	PERCENT MIX
SHOWY TICKSEED SUNFLOWER	<i>Bidens aristosa</i>	1
SIDE-OATS GRAMA	<i>Bouteloua curtipendula</i>	28.7
PARTRIDGE PEA	<i>Chamaecrista fasciculata</i>	1.3
RIVER OATS	<i>Chasmanthium latifolium</i>	5
LANCELEAF COREOPSIS	<i>Coreopsis lanceolata</i>	1.3
VIRGINIA WILD RYE	<i>Elymus virginicus</i>	5
SPOTTED BEEBALM	<i>Monarda punctata</i>	0.2
SWITCHGRASS	<i>Panicum virgatum</i>	5
BLACKEYED SUSAN	<i>Rudbeckia hirta</i>	1.3
LITTLE BLUESTEM	<i>Schizachyrium scoparium</i>	36
OHIO SPIDERWORT	<i>Tradescantia ohioensis</i>	0.2
PURPLETOP	<i>Tridens flavus</i>	15

ZONE D – UPLAND RIPARIAN SEED MIX (20 lbs/acre\*)

COMMON NAME	BOTANICAL NAME	PERCENT MIX
INDIANGRASS, 'HOLT'	<i>Sorghastrum nutans, "Holt"</i>	28
VIRGINIA WILD RYE, MADISON-NY ECOTYPE	<i>Elymus virginicus</i>	20
SWITCHGRASS, 'CARTHAGE', NC ECOTYPE	<i>Panicum virgatum</i>	20
BEAKED PANICGRASS, SC ECOTYPE	<i>Panicum anceps</i>	15
RIVER OATS, WV ECOTYPE	<i>Chasmanthium latifolium</i>	5
PARTRIDGE PEA, FL ECOTYPE	<i>Chamaecrista fasciculata</i>	3
FOX SEDGE, PA ECOTYPE	<i>Carex vulpinoidea</i>	2
LANCELEAF COREOPSIS	<i>Coreopsis lanceolata</i>	2
BLACKEYED SUSAN	<i>Rudbeckia hirta</i>	2
SOFT RUSH	<i>Juncus effusus</i>	1
NEW YORK IRONWEED, PA ECOTYPE	<i>Vernonia noveboracensis</i>	1
NARROWLEAF SUNFLOWER, COASTAL PLAIN NC ECOTYPE	<i>Helianthus angustifolius</i>	1

\*20 LB PER ACRE WITH A COVER CROP. FOR A COVER CROP USE EITHER GRAIN RYE (30 LBS/ACRE; 1 SEP TO 31 APR) OR JAPANESE MILLET (10 LBS/ACRE; 1 MAY TO 31 AUG)

ZONE A – WATERS EDGE 4' ON CENTER

COMMON NAME	BOTANICAL NAME	PERCENT MIX	ROWS	TYPE
SILKY WILLOW	<i>Salix sericea</i>	35	2	LIVE STAKE
SILKY DOGWOOD	<i>Cornus amomum</i>	30	2	LIVE STAKE
ELDERBERRY	<i>Sambucus canadensis</i>	15	2	LIVE STAKE
BUTTONBUSH	<i>Cephalanthus occidentalis</i>	10	2	LIVE STAKE
TAG ALDER	<i>Alnus serrulata</i>	10	2	TUBELING

ZONE A – HERBACEOUS PLUGS

COMMON NAME	BOTANICAL NAME	PERCENT MIX	ROWS	TYPE
SOFT RUSH	<i>Juncus effusus</i>	40	1	0.5"-1" PLUG
SHALLOW SEDGE	<i>Carex lurida</i>	20	1	0.5"-1" PLUG
FOX SEDGE	<i>Carex vulpinoidea</i>	20	1	0.5"-1" PLUG
FRINGED SEDGE	<i>Carex crinita</i>	20	1	0.5"-1" PLUG

ZONES B & C – WOODY STEMS

COMMON NAME	BOTANICAL NAME	PERCENT MIX	APPROX. SPACING (FT)	QTY	SIZE
WILLOW OAK	<i>Quercus phellos</i>	14	12	95	3 GALLON
YELLOW POPLAR	<i>Liriodendron tulipifera</i>	8	12	55	3 GALLON
SHAGBARK HICKORY	<i>Carya ovata</i>	8	12	55	3 GALLON
EASTERN REDBUD	<i>Cercis canadensis</i>	5	12	34	3 GALLON
RED OAK	<i>Quercus rubra</i>	13	10	127	3 GALLON
RIVER BIRCH*	<i>Betula nigra</i>	12	10	117	3 GALLON
SYCAMORE*	<i>Plantanus occidentalis</i>	12	10	117	3 GALLON
PINKY FLOWER	<i>Rhododendron periclymenoides</i>	3	10	29	1 GALLON
BUTTON BUSH	<i>Cephalanthus occidentalis</i>	3	10	29	1 GALLON
SOUTHERN ARROWWOOD	<i>Viburnum dentatum</i>	5	10	49	1 GALLON
RED CHOKEBERRY*	<i>Aronia arbutifolia</i>	4	10	39	1 GALLON
HEARTS-A-BURSTIN	<i>Euonymus americanus</i>	5	10	49	1 GALLON
VIRGINIA SWEETSPIRE*	<i>Ilex virginica</i>	3	10	29	1 GALLON
WINTERBERRY*	<i>Illex verticillata</i>	5	8	76	1 GALLON
2" CALIPER TREES**	N/A**	**	15	10	2" CALIPER

NOTE: 3 GALLON TREES SHALL NOT BE PLANTED ON SLOPES EXCEEDING 3:1

\*FACW AND OBL SPECIES SHOULD BE PLANTED ON THE BANKFULL BENCH AND OTHER SPECIES SHOULD BE CONCENTRATED ON THE SLOPES

\*\*2" CALIPER TREES SPECIES WILL BE THE SAME AS 3-GALLON TREES. NUMBER TO BE DETERMINED BASED ON AVAILABILITY.

ZONE E – PERMANENT NON-RIPARIAN (50 lbs/ acre)

COMMON NAME	BOTANICAL NAME	PERCENT MIX
CLUSTERED FESCUE*	<i>Eragrostis spectabilis</i>	50
MIX CLUSTERED FESCUE*	<i>Festuca brevipila</i>	50

\*OR APPROVED SUBSTITUTE

ZONE F – REFERENCE NCDOT STABILIZATION SEEDING AND MULCHING REQUIREMENTS (EAST)

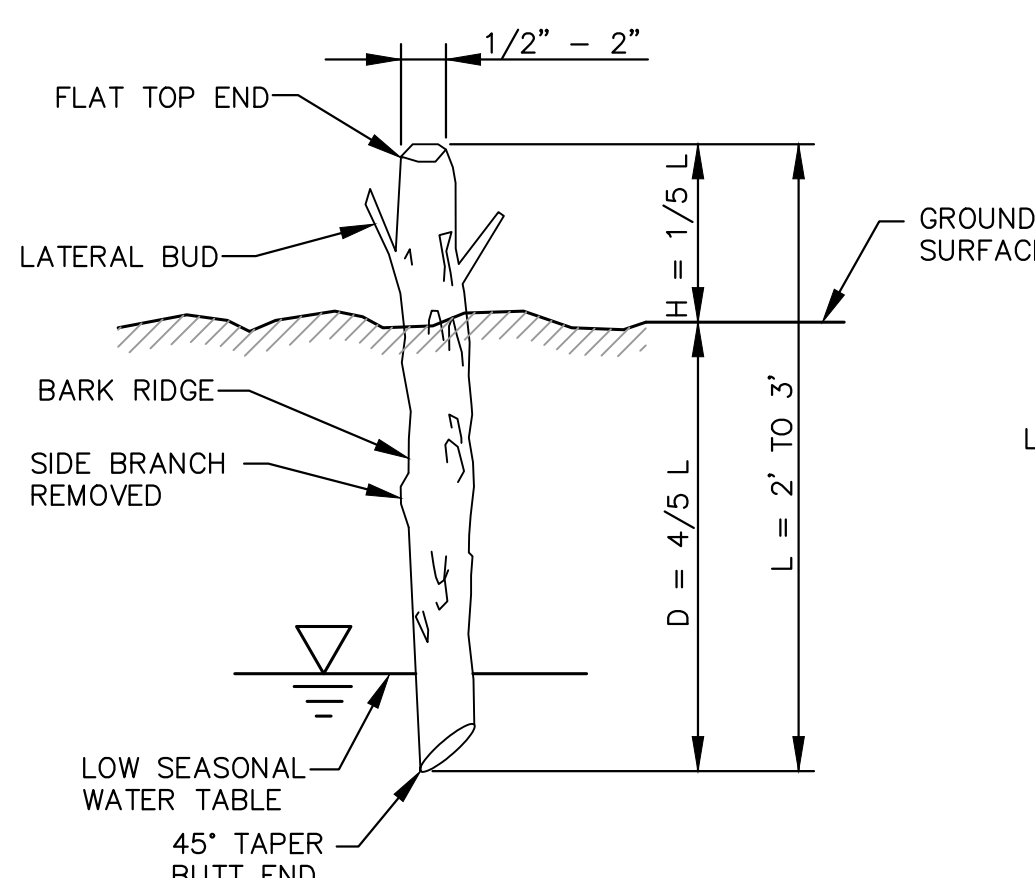
ALL ZONES – SOIL AMENDMENTS

PELLETIZED HUMIC ACID WITH 20% SOLUBLE CALCIUM	200 lbs/ac
SLOW-RELEASE GRANULAR ORGANIC PHOSPHATE 0-20-0	100 lbs/ac
BIOCHAR	200 lbs/ac
ORGANIC GRANULATED 2-4-3 FERTILIZER	100 lbs/ac

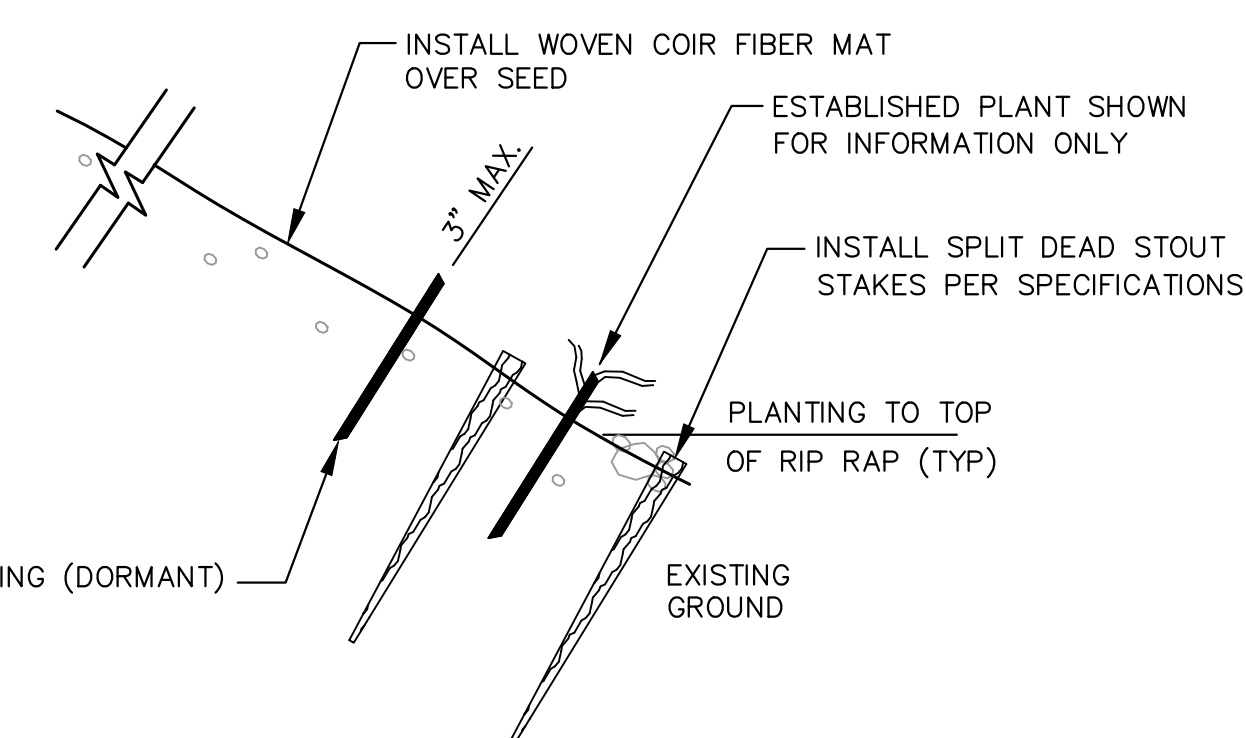
- 1) ALL DISTURBED AREAS SHOULD BE RAKED/ROUGHENED (A MINIMUM OF 5"), TOP SOIL ADDED, SEEDED (PERMANENT AND TEMPORARY), STRAWED, AND THEN COVERED WITH EROSION CONTROL MATTING (700 GRAM OR APPROVED EQUIVALENT) PER THE MANUFACTURERS RECOMMENDATIONS. ONCE THE MATTING IS DOWN INSTALL THE LIVE STAKES, PLUGS AND TUBELINGS THROUGH THE MATTING.
- 2) O.C. = ON-CENTER
- 3) IF DRY CONDITIONS EXIST THE CONTRACTOR SHALL WATER THE INSTALLED VEGETATION WITH WATER FROM THE CREEK.
- 4) APPLY TOPSOIL/COMPOST MIX 1.5" ON GRADED CHANNEL BANKS IN ZONES A AND B. COVER WITH SEED AND STRAW WITHIN 3 DAYS OF APPLICATION.
- 5) APPLY 2,000 LB/ACRE STRAW ANCHOR STRAW. WITH MATTING OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
- 6) RESEED AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE PER SECTION 6.10 OF NCDEQ EROSION AND SEDIMENT CONTROL DESIGN MANUAL.

PROPOSED PLANTING PLAN LEGEND

	ZONE A - LOWER BANK
	ZONE B - BANKFULL BENCH
	ZONE C - STEEP SLOPE
	ZONE D - UPLAND RIPARIAN
	ZONE E - UPLAND NON-RIPARIAN
	ZONE F - NCDOT STABILIZATION MIX



LIVE STAKE DETAIL  
NOT TO SCALE



NOTES:  
1. IF USING WOVEN COIR FIBER MAT, INSTALL LONG STRAW MULCH BENEATH MAT.

LIVE STAKE (IN EARTH)  
NOT TO SCALE



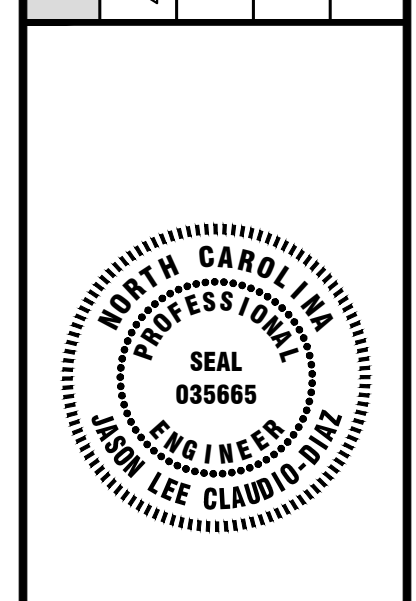
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MECKLENBURG COUNTY  
3205 FREEDOM DRIVE, SUITE 101  
CHARLOTTE, NC 28208

Plans Prepared By:  
**Kimley-Horn**  
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Charlotte, NC 28202

NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	PERCENT MIX UPDATE



AS NOTED	SCALE	CEP	CHECKED BY	DATE
				04/15/2026

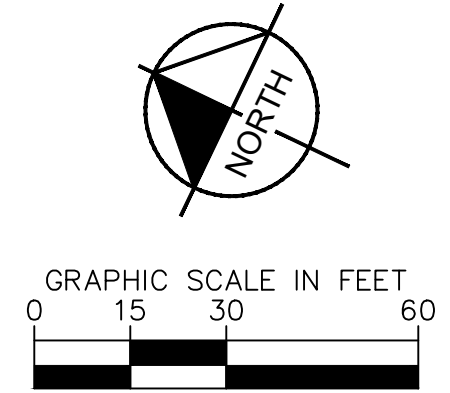
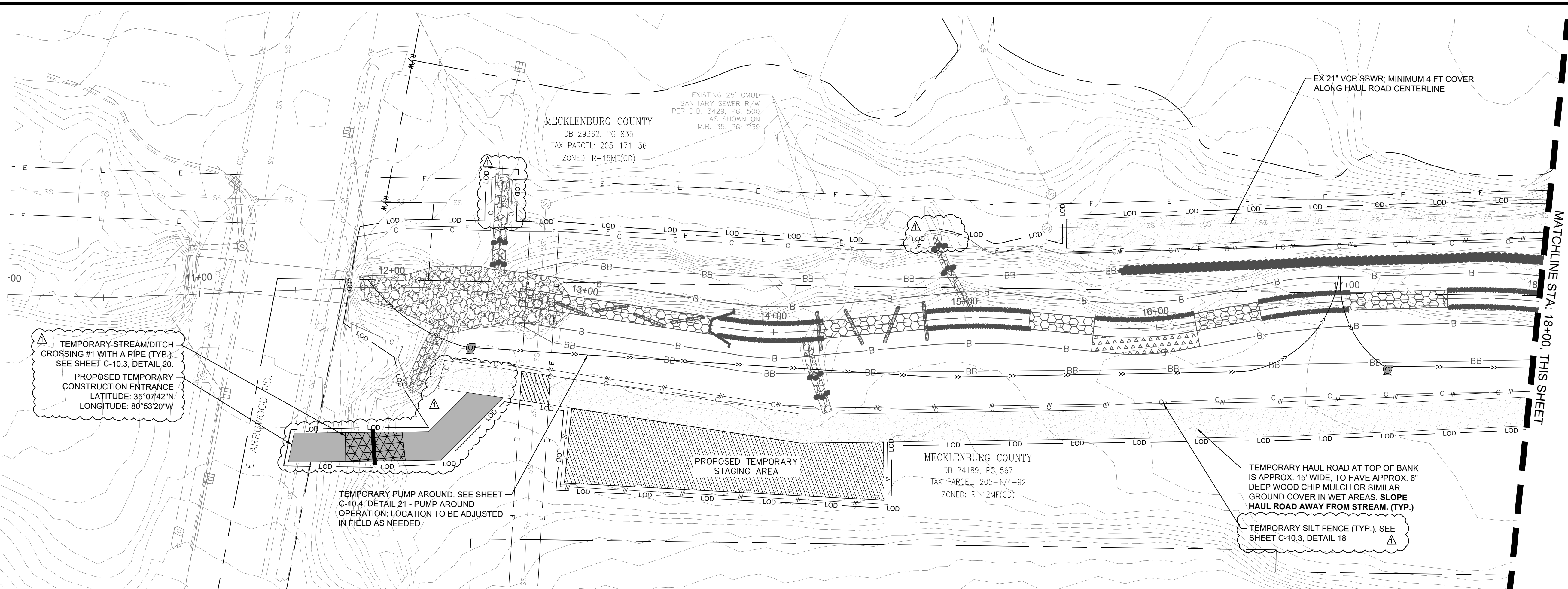
JOB NO.	PREPARED BY	APPROVED BY
015016075	JCR	JCO

KINGS BRANCH AT  
ARROWOOD ROAD  
PHASE 2A

VEGETATION NOTES  
AND DETAILS

Plotted By: Reid, James. Sheet: Sct-Kings Branch Phase 2A. Layout: C-8.0 - VEG-NOTES. May 06, 2026 01:27:42pm. K:\CHL\PROJ\015236 mecklenburg county\075 kings branch phase 2\015236-VEG-NOTES.dwg

Plotted By: Reid, James Sheet Set: Kings Branch Phase 2A Layout: C-9.1 - EC-PLANS May 06, 2026 01:28:29pm K:\CHL\_PROJ\015236 mecklenburg county\075 Kings Branch phase 2\Cadd\plansheets\PHASE-2A\2A-092-EC-PLANS.dwg



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NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	UPDATED CONSTRUCTION ENTRANCE, LOD, AND NOTES



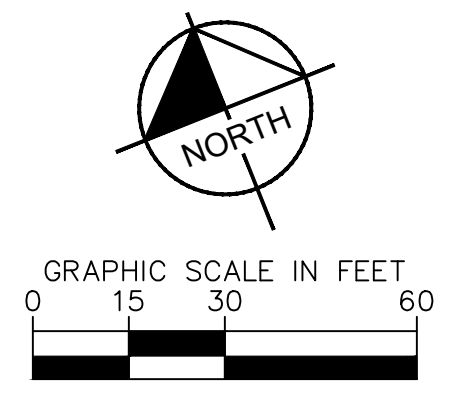
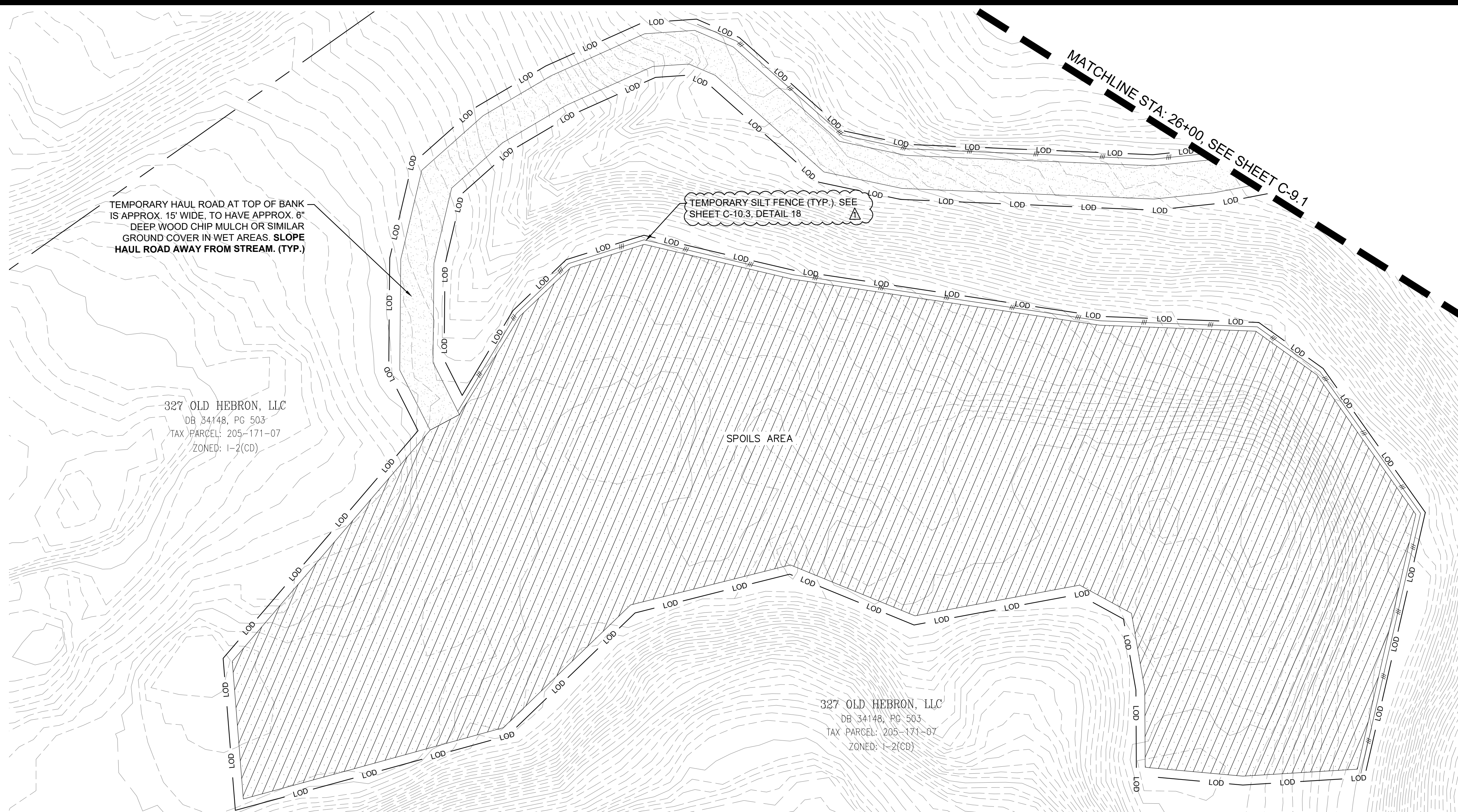
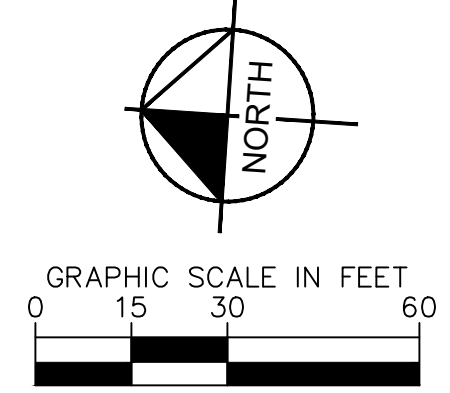
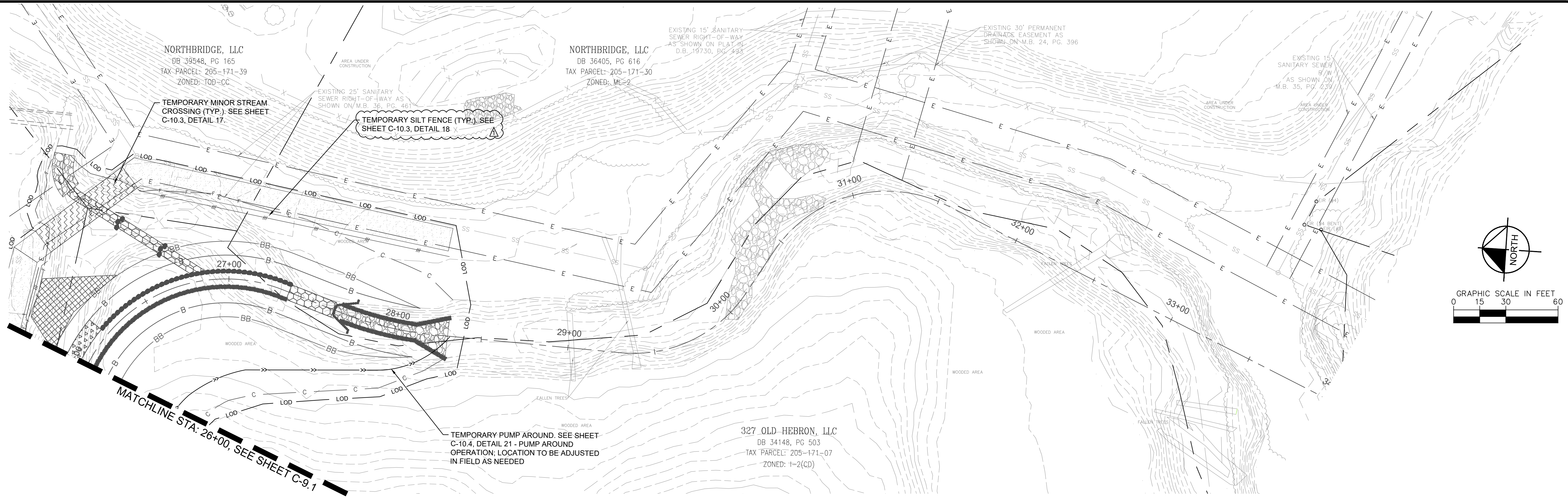
AS NOTED	SCALE	CEP	CHECKED BY	04/15/2026	DATE
015016075	JOB NO.	JCR	PREPARED BY	JCO	APPROVED BY

**KINGS BRANCH AT ARROWOOD ROAD PHASE 2A**  
SHEET **C-9.1** OF **33**  
**EC-PLANS**



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Plotted By: Reid, James. Sheet: Sct: Kings Branch Phase 2A. Layout: C-9.2 - EC-PLANS. May 06, 2026. 01:28:41pm. K:\CHL\_PRC\015236 mecklenburg county\075 Kings Branch phase 2A\2A-C92-EC-PLANS.dwg



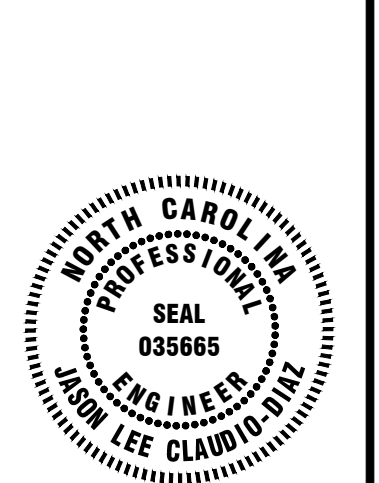
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NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	UPDATED NOTES



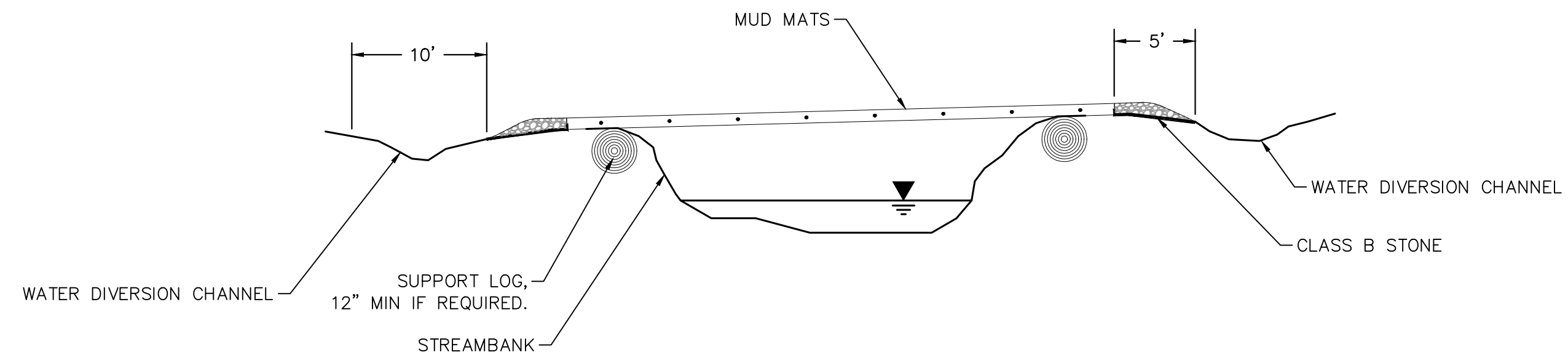
AS NOTED SCALE	CHECKED BY	DATE
015016075 JOB NO.	JCR PREPARED BY	04/15/2026
	JCD APPROVED BY	

**KINGS BRANCH AT  
ARROWOOD ROAD  
PHASE 2A**

**EC-PLANS**

SHEET **C-9.2** OF **33**

Plotted By: Reid, James Sheet: Sct-Kings Branch Phase 2A Layout: C-10.3 - EC-DETAILS May 06, 2026 01:28:58pm K:\OH\PR\015236 mecklenburg county\075 kings branch phase 2\075 Kings Branch Phase 2A\2A-EC-DETAILS.dwg



**NOTES:**

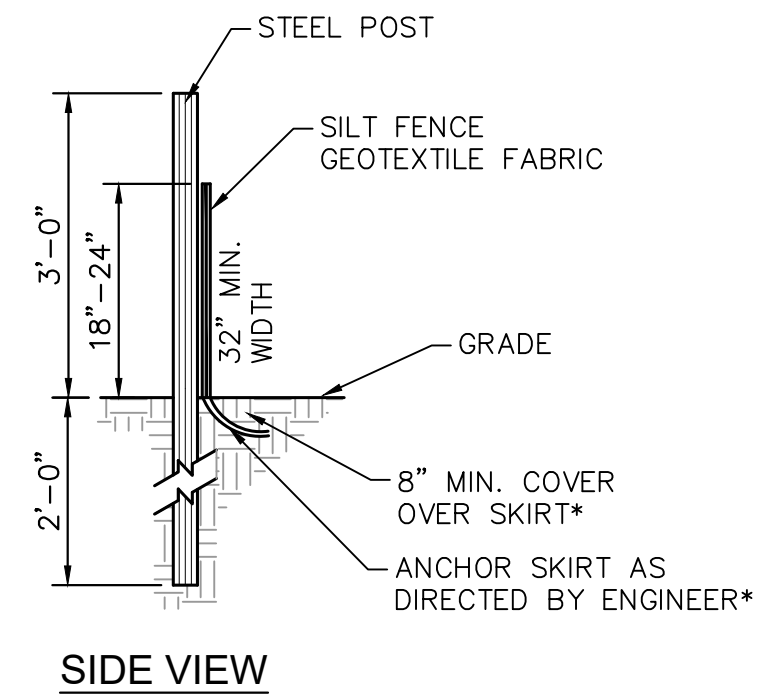
1. CONSTRUCT STREAM CROSSING WHEN FLOW IS AT NORMAL BASEFLOW.
2. MINIMIZE CLEARING AND EXCAVATION OF STREAM BANKS. DO NOT EXCAVATE CHANNEL BOTTOM.
3. INSTALL STREAM CROSSING PERPENDICULAR TO THE FLOW.
4. MAINTAIN CROSSING SO THAT RUNOFF IN THE CONSTRUCTION ROAD DOES NOT ENTER EXISTING CHANNEL.
5. STABILIZE AN ACCESS RAMP OF CLASS B STONE TO THE EDGE OF THE MUD MAT.
6. CONTRACTOR SHALL DETERMINE AN APPROPRIATE RAMP ANGLE ACCORDING TO THE EQUIPMENT UTILIZED.
7. MUST BE REMOVED IF STORM EVENT IS PREDICTED.

**MAINTENANCE:**

1. INSPECT TEMPORARY STREAM CROSSINGS AFTER RUNOFF-PRODUCING RAINS TO CHECK FOR BLOCKAGE IN CHANNEL, EROSION OF ABUTMENTS, CHANNEL SCOUR, RIP RAP DISPLACEMENT, OR PIPING. MAKE ALL REPAIRS IMMEDIATELY TO PREVENT FURTHER DAMAGE TO THE INSTALLATION.

**17 TEMPORARY MINOR STREAM CROSSING**

Not to Scale



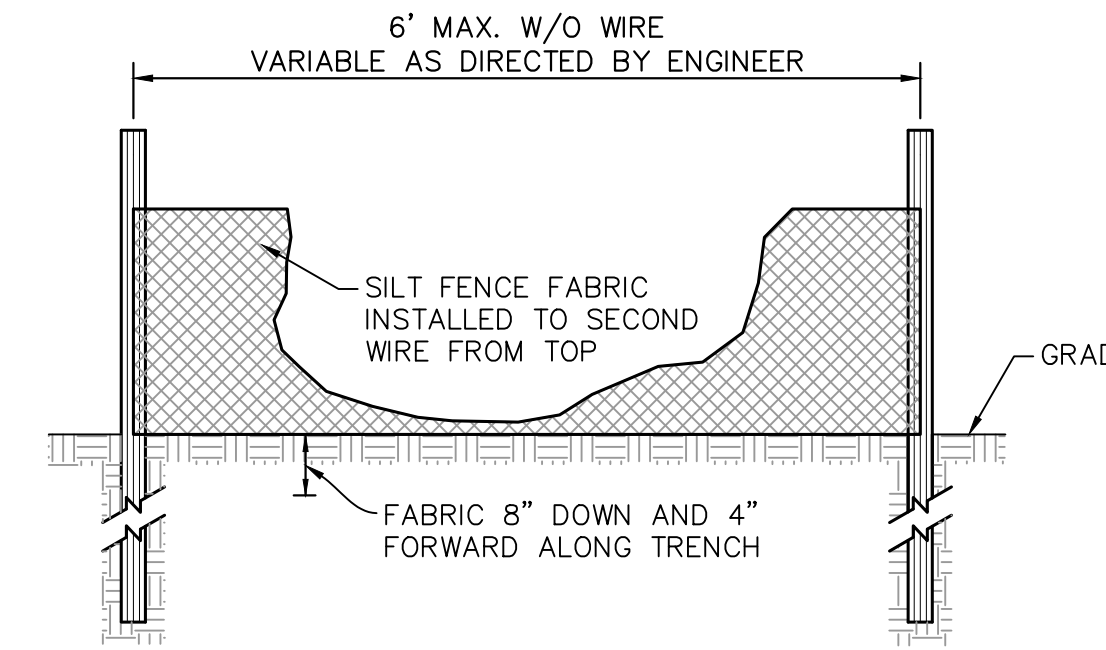
**SIDE VIEW**

**MAINTENANCE:**

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT. REMOVE ALL FENCING MATERIAL AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



**FRONT VIEW**

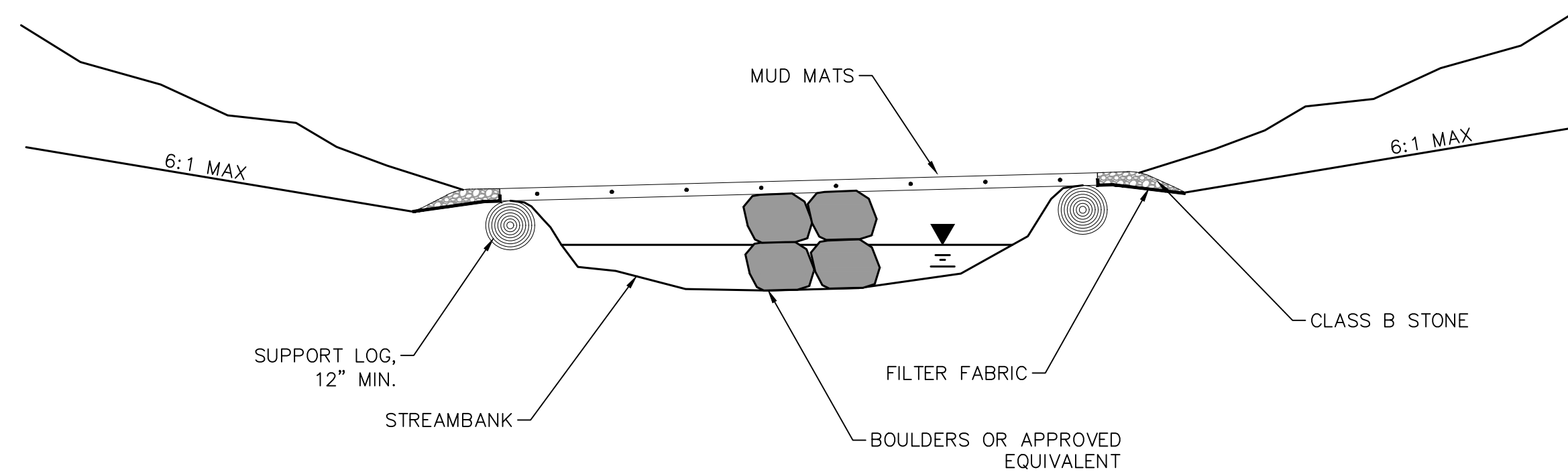
**NOTES:**

1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

\* FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 STONE FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

**18 TEMPORARY SILT FENCE**

Not to Scale



**NOTES:**

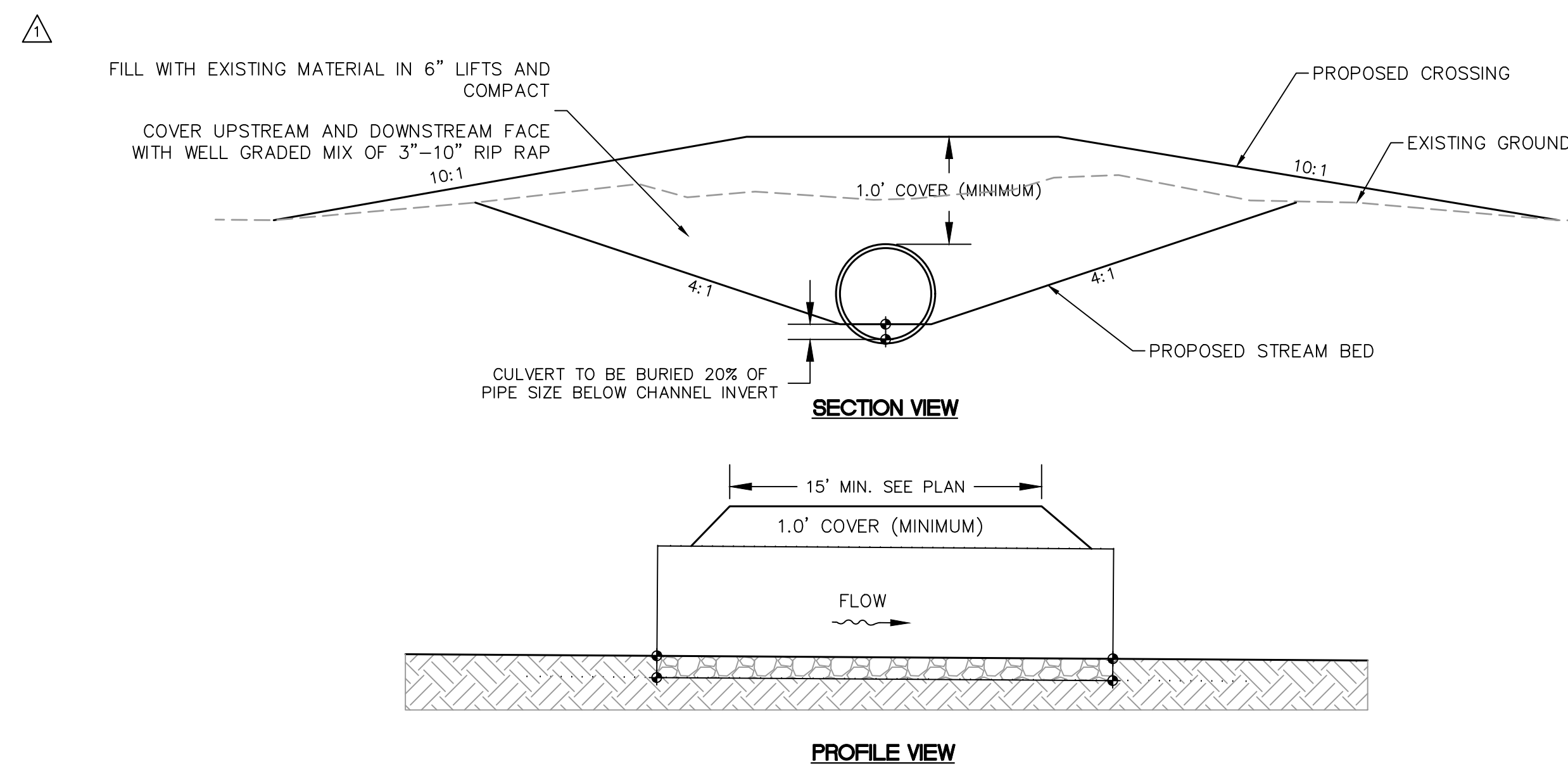
1. CONSTRUCT STREAM CROSSING WHEN FLOW IS AT NORMAL BASEFLOW.
2. MINIMIZE CLEARING AND EXCAVATION OF STREAMBANKS. DO NOT EXCAVATE CHANNEL BOTTOM.
3. INSTALL STREAM CROSSING PERPENDICULAR TO THE FLOW.
4. MAINTAIN CROSSING SO THAT RUNOFF IN THE CONSTRUCTION ROAD DOES NOT ENTER EXISTING CHANNEL.
5. STABILIZE AN ACCESS RAMP OF CLASS B STONE TO THE EDGE OF THE MUD MAT.
6. CONTRACTOR SHALL DETERMINE AN APPROPRIATE RAMP ANGLE ACCORDING TO THE EQUIPMENT UTILIZED.

**MAINTENANCE:**

1. INSPECT TEMPORARY STREAM CROSSINGS AFTER RUNOFF-PRODUCING RAINS TO CHECK FOR BLOCKAGE IN CHANNEL, EROSION OF ABUTMENTS, CHANNEL SCOUR, RIPRAP DISPLACEMENT, OR PIPING. MAKE ALL REPAIRS IMMEDIATELY TO PREVENT FURTHER DAMAGE TO THE INSTALLATION.

**19 TEMPORARY MAJOR STREAM CROSSING**

Not to Scale



**20 TEMPORARY DITCH CROSSING WITH PIPE**

Not to Scale



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NO.	DATE	BY	DESCRIPTION
1	5/6/26	JCR	UPDATED DETAIL



AS NOTED	SCALE	CHECKED BY	DATE
015016075		JCR	04/15/2026
JOB NO.	PREPARED BY	APPROVED BY	
	JCR	JCR	

**KINGS BRANCH AT  
ARROWOOD ROAD  
PHASE 2A**

**EROSION CONTROL  
DETAILS**

SHEET **C-10.3** OF **33**



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