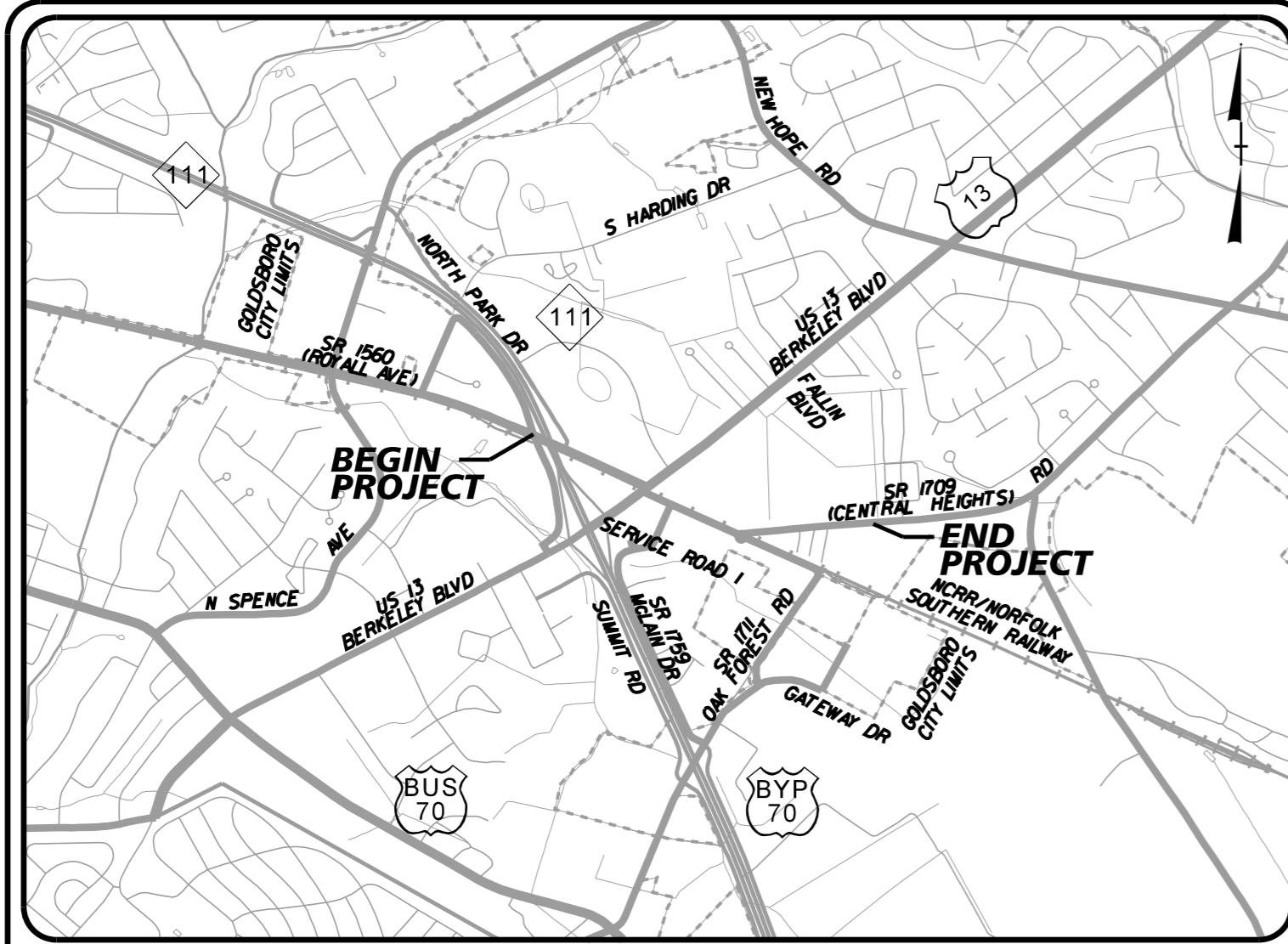


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**This file or an individual page
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TIP PROJECT: U-5724

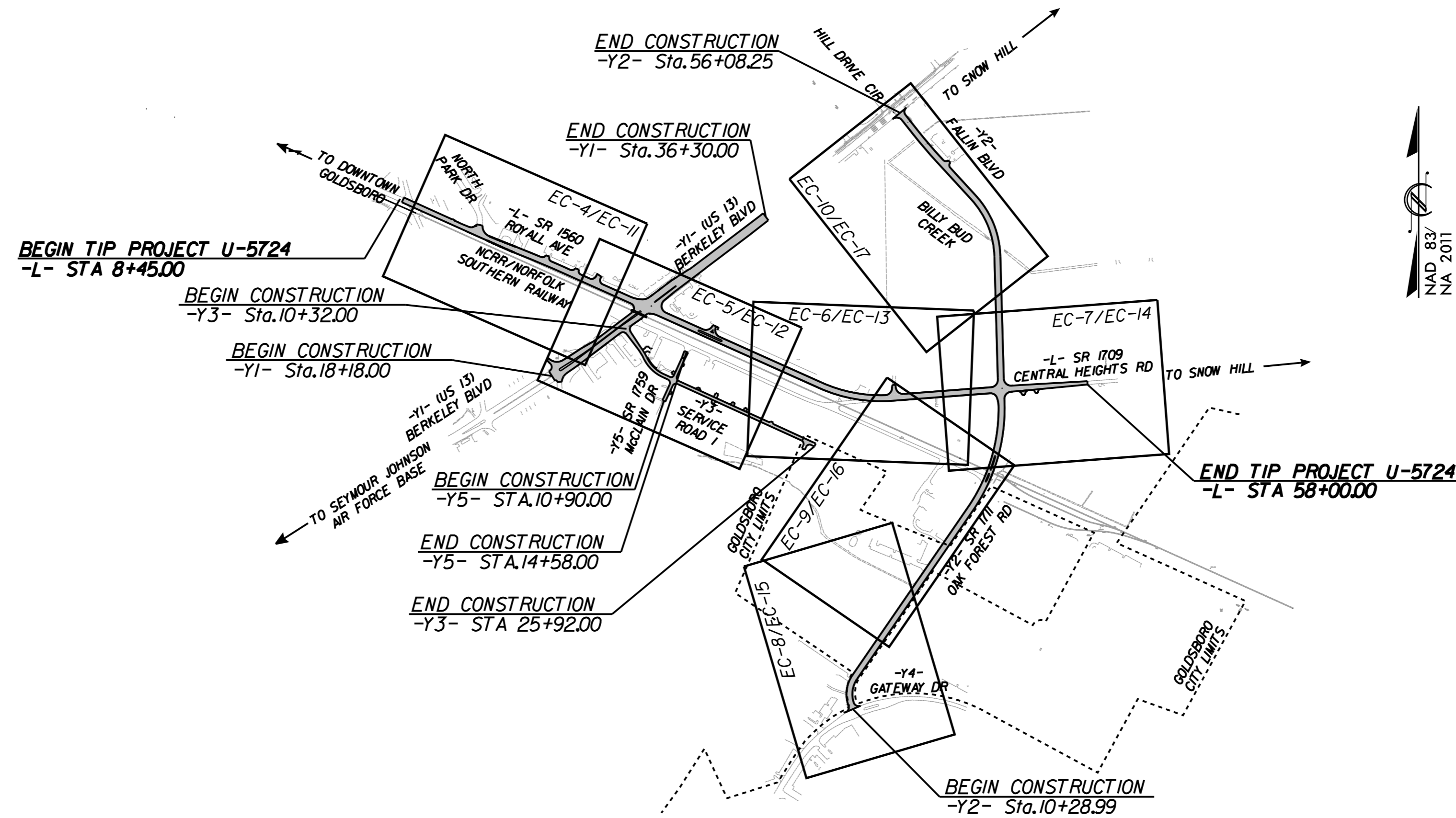


VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL
WAYNE COUNTY

LOCATION: SR 1560 (ROYALL AVENUE) FROM NORTH PARK DRIVE TO US 13 (BERKELEY BOULEVARD) AND SR 1709 (CENTRAL HEIGHTS ROAD) FROM US 13 (BERKELEY BOULEVARD) TO SR 1711 (OAK FOREST ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERT, AND SIGNALS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5724	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
54016.1.2		PE	
54016.1.2.1		RW	
54016.1.2.1		UTIL	
54016.1.3.1		CONST	

EROSION AND SEDIMENT CONTROL MEASURES

Sta. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	---X---
1622.01	Temporary Berms and Slope Drains	---X---
1630.02	Silt Basin Type B	[Symbol]
1633.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	[Symbol]
1633.02	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle/Coir Fiber Wattle	[Symbol]
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	[Symbol]
1634.01	Temporary Rock Sediment Dam Type-A	[Symbol]
1634.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1635.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1635.02	Rock Pipe Inlet Sediment Trap Type-B	[Symbol]
1630.04	Stilling Basin	[Symbol]
1630.06	Special Stilling Basin	[Symbol]
	Rock Inlet Sediment Trap:	
1632.01	Type A	A [Symbol]
1632.02	Type B	B [Symbol]
1632.03	Type C	C [Symbol]
	Skimmer Basin	[Symbol]
	Tiered Skimmer Basin	[Symbol]
	Infiltration Basin	[Symbol]

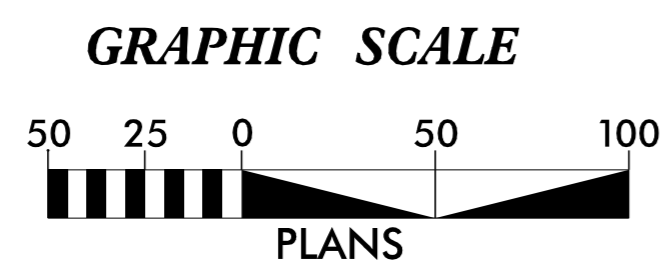
THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.

THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.

ENVIRONMENTALLY
SENSITIVE AREA(S) EXIST
ON THIS PROJECT

Refer To E. C. Special Provisions
for Special Considerations.

CONTRACT:



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Kimley»Horn

NC LICENSE #0102
P.O. BOX 33098
RALEIGH, NORTH CAROLINA 27636
PHONE: (919) 877-2000

Prepared in the Office of:
KIMLEY HORN
200 S Tryon St #200
Charlotte, NC 28202

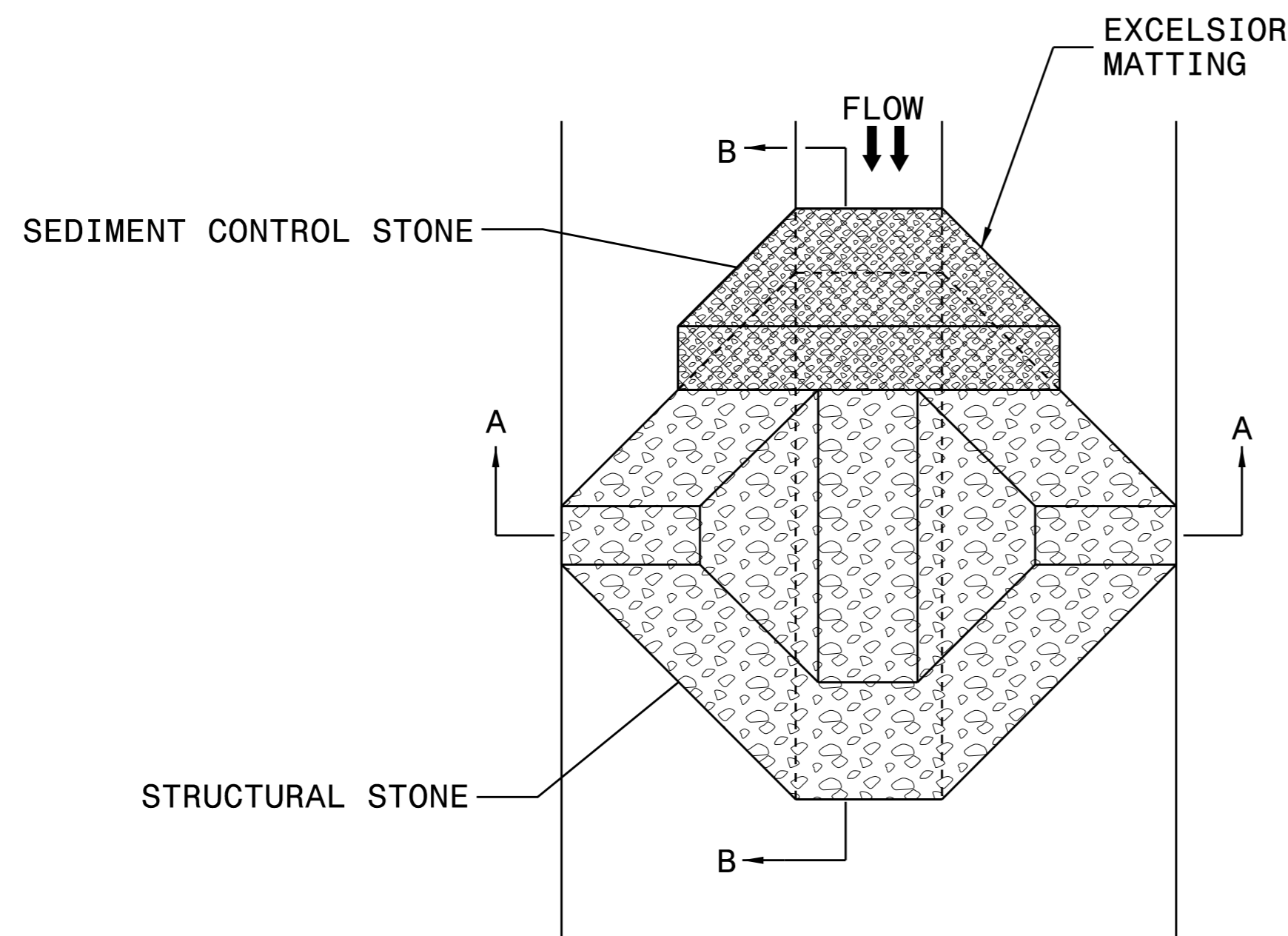
Designed by:
Elizabeth Lynch, PE **3716**
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

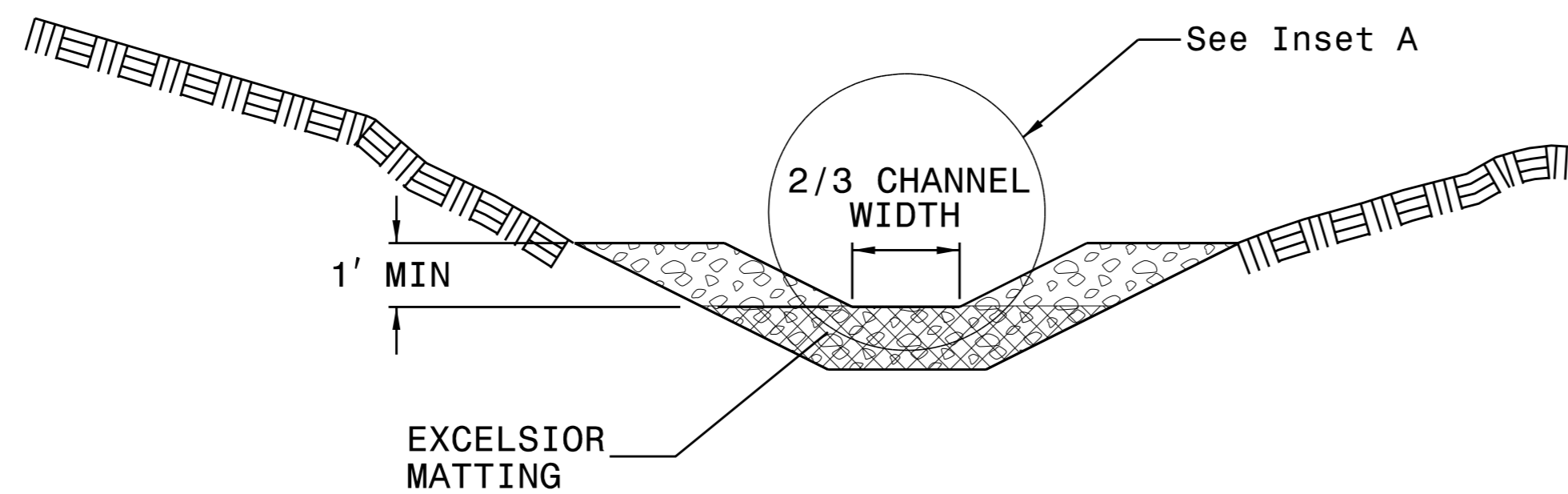
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A

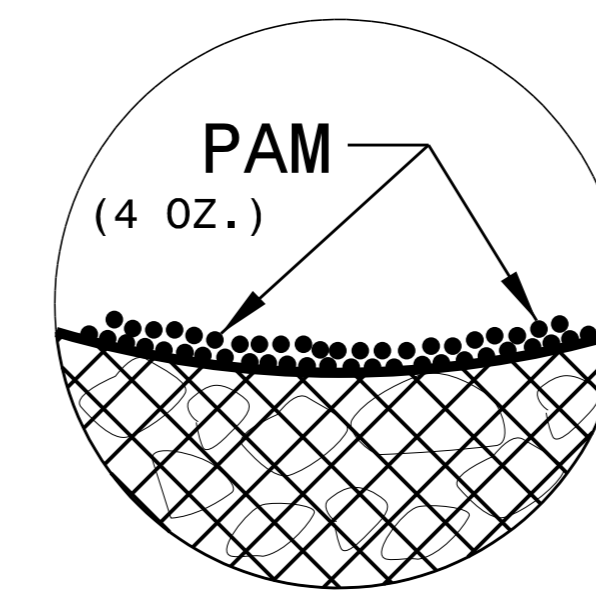
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

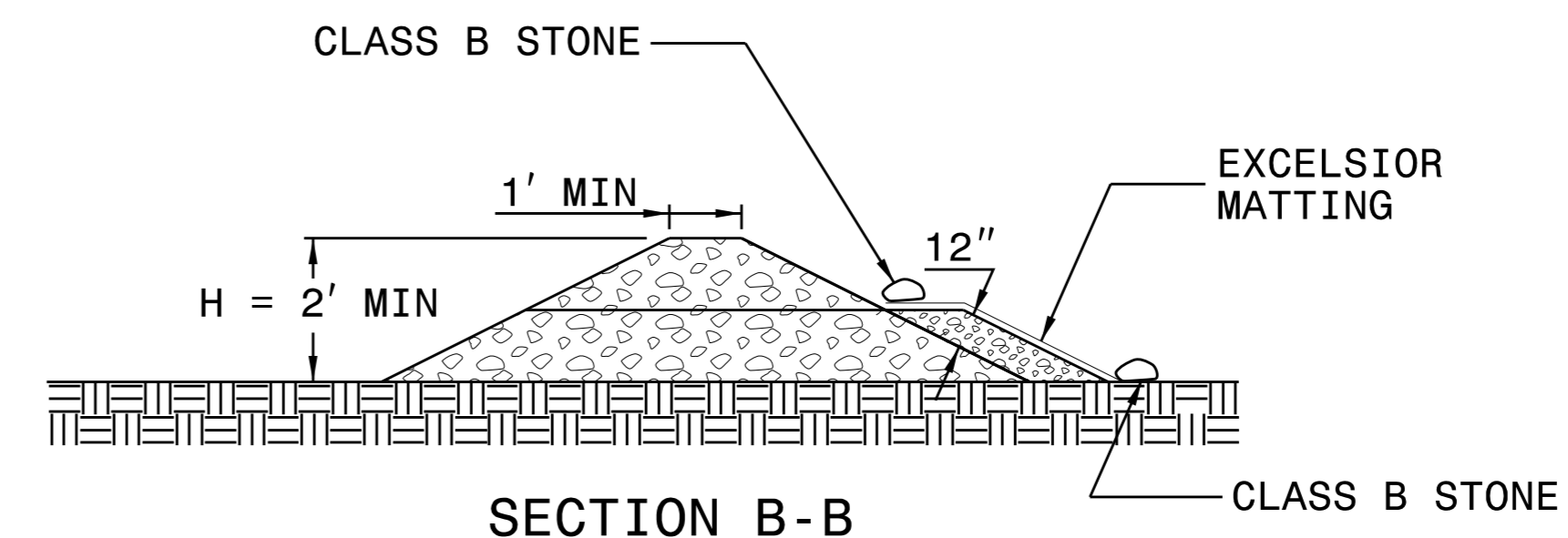
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION B-B

NOT TO SCALE

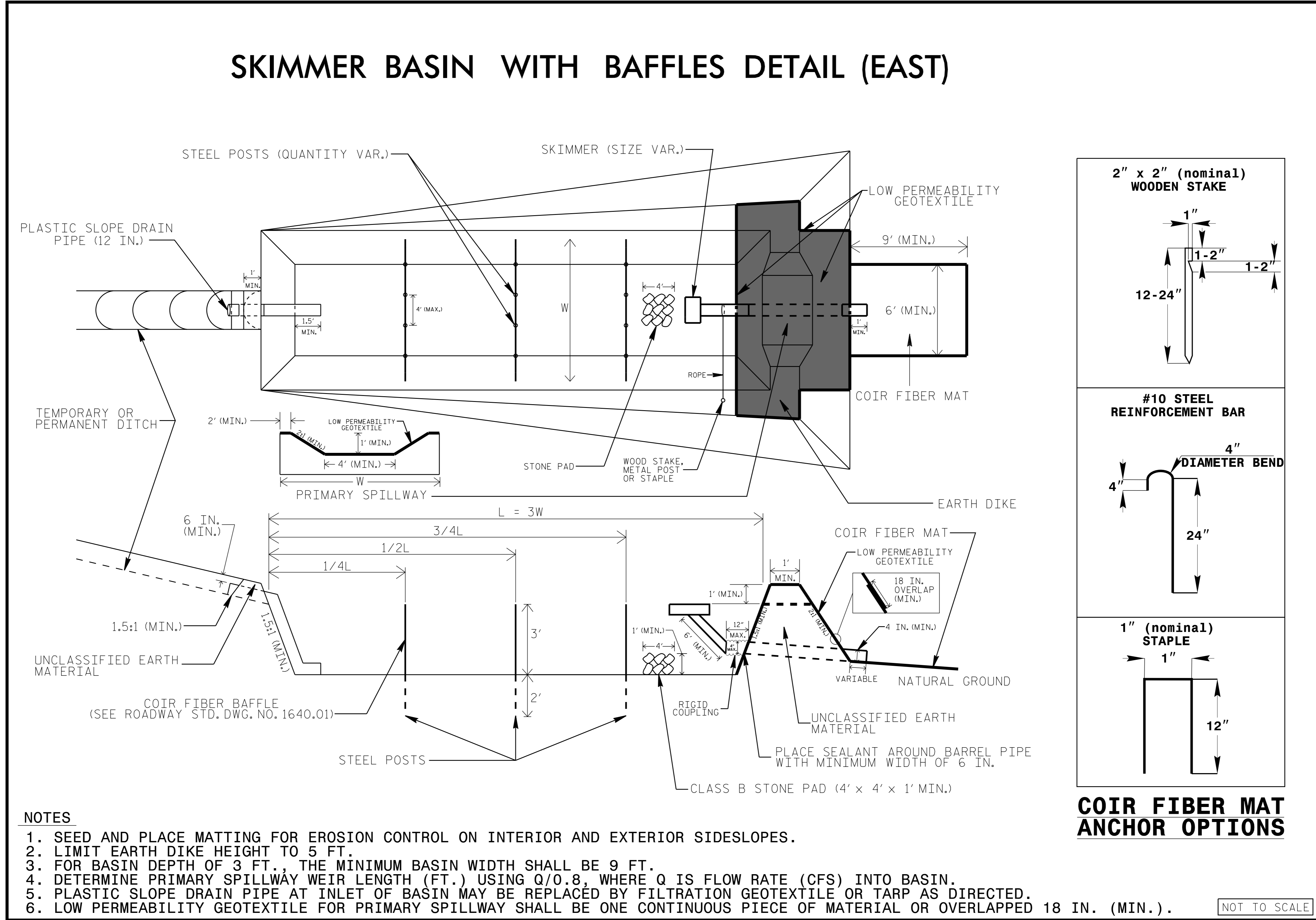
REVISIONS

5/14/99

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2/19/2020

SKIMMER BASIN WITH BAFFLES DETAIL (EAST)



NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. LOW PERMEABILITY GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

REVISIONS

2/20/2020 K:\RAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_psh_02&03.dgn 5/14/99

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

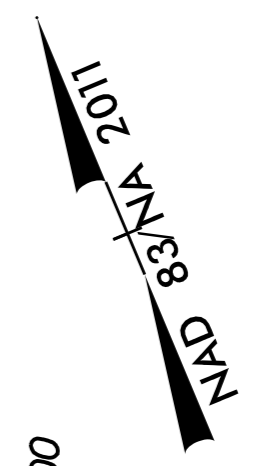
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

REVISIONS

5/14/99

2/19/2020 K:\PAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724.ec_bsh_02&03.dgn

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4



REVISIONS

BM1 ELEVATION = 114.32
N 59°56'63" E 2316117
BL STATION 5+00.00
N 15°06'12.84" W DIST 7.83
SCRIBE ON FH BONNET BOLT

SAM'S REAL ESTATE BUSINESS TRUST
DB 1967 PG 758
PB J PG 377

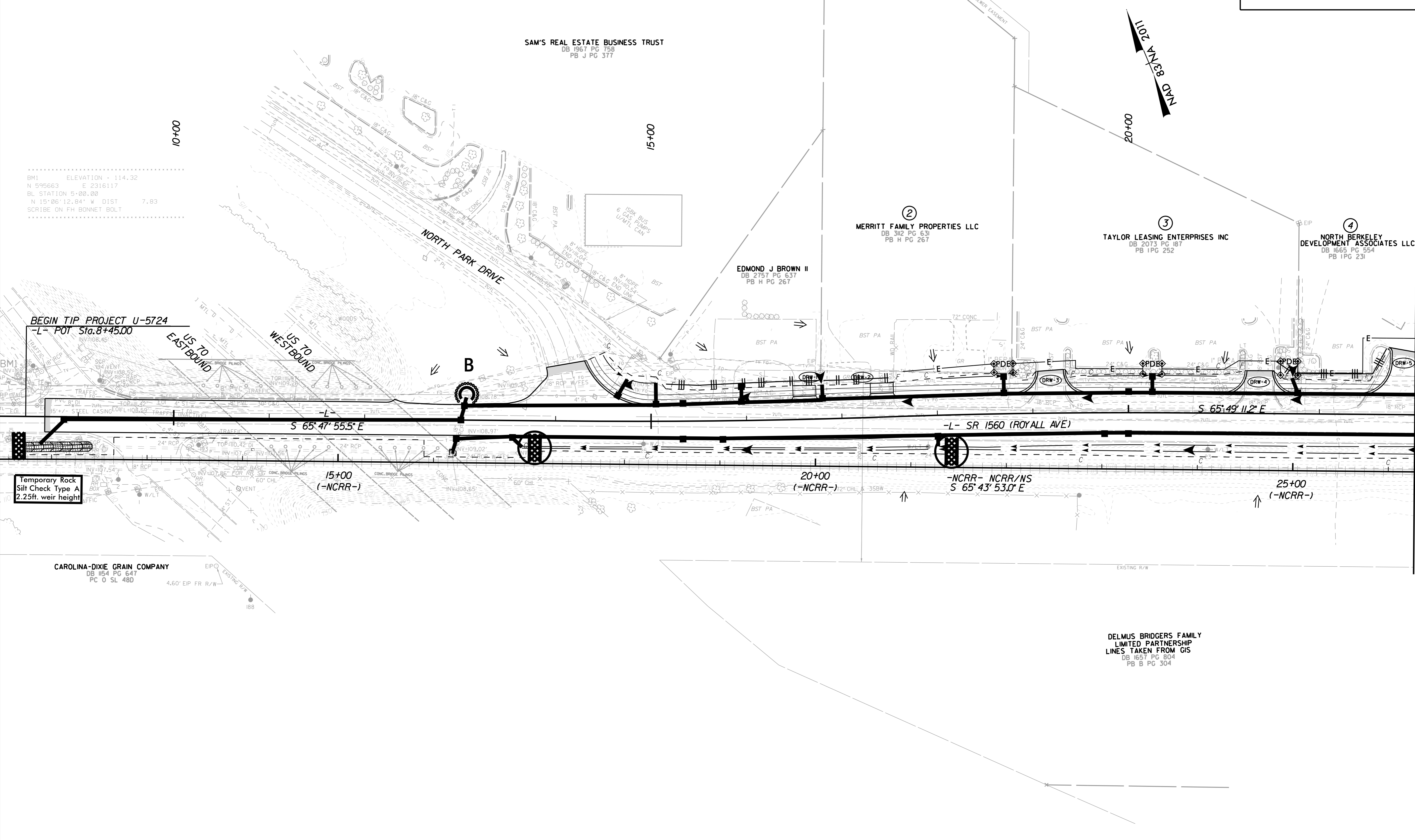
②
MERRITT FAMILY PROPERTIES LLC
DB 312 PG 631
PB H PG 267

③
TAYLOR LEASING ENTERPRISES INC
DB 2073 PG 187
PB 1 PG 252

④
NORTH BERKELEY DEVELOPMENT ASSOCIATES LLC
DB 1665 PG 554
PB 1 PG 231

EDMOND J BROWN II
DB 2757 PG 637
PB H PG 267

BEGIN TIP PROJECT U-5724
-L- POT Sta. 8+45.00



Temporary Rock
Silt Check Type A
2.25ft. weir height

CAROLINA-DIXIE GRAIN COMPANY
DB 1154 PG 647
PC 0 SL 48D

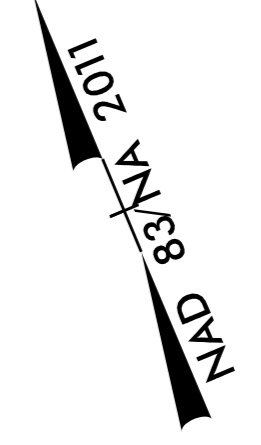
DELMUS BRIDGERS FAMILY
LIMITED PARTNERSHIP
LINES TAKEN FROM GIS
DB 1657 PG 804
PB B PG 304

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

5/14/99
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8/20/2020

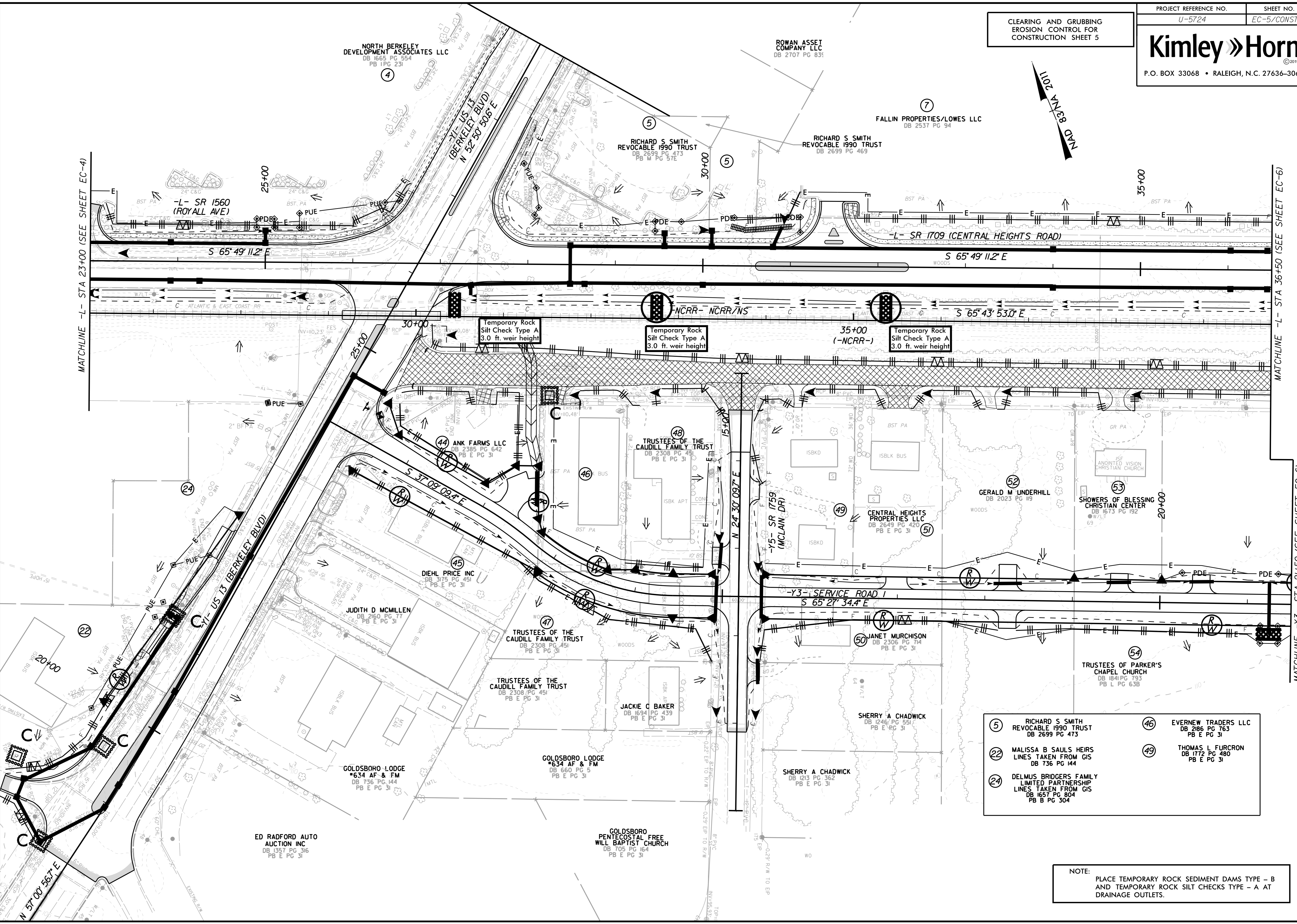
MATCHLINE -L- STA 23+00 (SEE SHEET EC-5)

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5



REVISIONS

5/14/1999
K:\RAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_psh_05.dgn
2/19/2020



NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NAD 83/NA 2011

GRASS SWALE DATA

DA = 9.7 AC
SLOPE = 0.10%
L REQ = 973 FT
L PRO = 1928 FT
Q2 = 18.9 CFS
V2 = 1.4 FPS
D2 = 1.78 FT
Q10 = 24.3 CFS
V10 = 1.4 FPS
D10 = 1.99 FT

OUTFALL AT
-Y2- STA. 45+45 LT

B-B
STA 24+91
-Y3- RT

10'

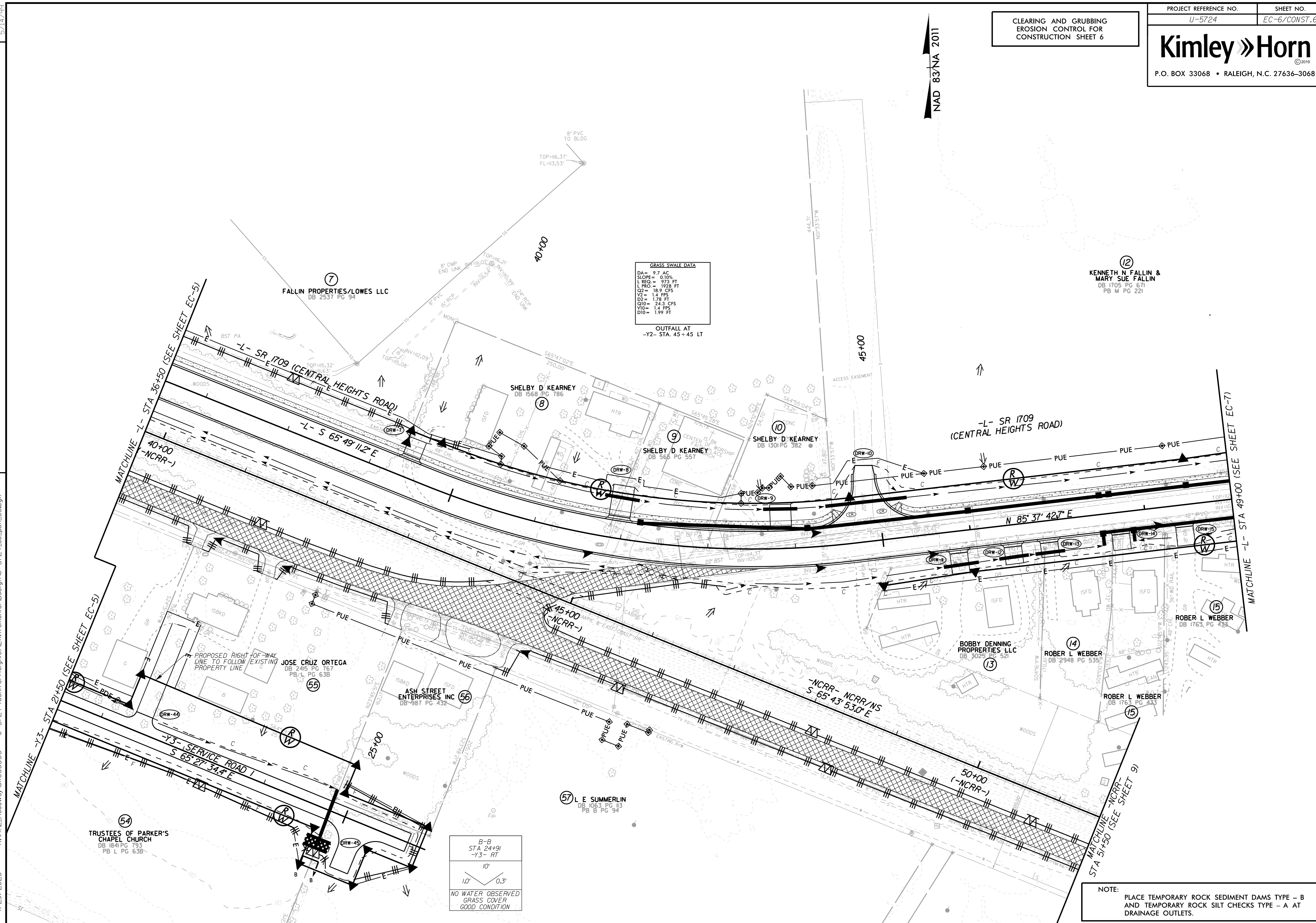
10' 0.3'

NO WATER OBSERVED
GRASS COVER
GOOD CONDITION

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

REVISIONS

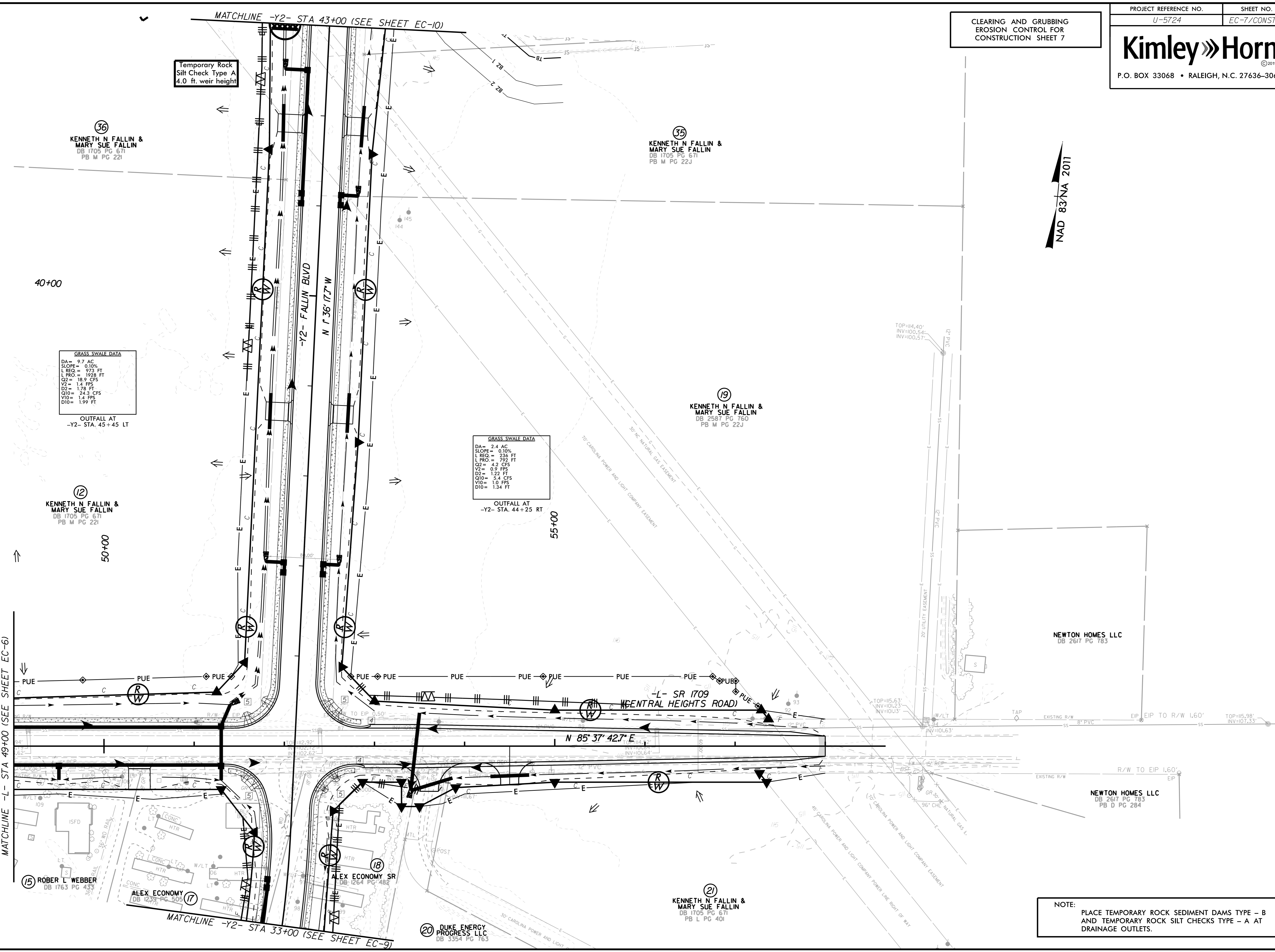
5/14/1999
4/29/2020 K:\RAL_Roadway\010363333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_pst_06.dgn



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NAD 83/NA 2011

REVISIONS



GRASS SWALE DATA
 DA= 9.7 AC
 SLOPE= 0.10%
 L REQ= 973 FT
 L PRO= 1928 FT
 Q2= 18.9 CFS
 V2= 1.4 FPS
 D2= 1.75 FT
 Q10= 24.3 CFS
 V10= 1.4 FPS
 D10= 1.99 FT
 OUTFALL AT
 -Y2- STA. 45+45 LT

GRASS SWALE DATA
 DA= 2.4 AC
 SLOPE= 0.10%
 L REQ= 236 FT
 L PRO= 793 FT
 Q2= 4.2 CFS
 V2= 0.9 FPS
 D2= 0.22 FT
 Q10= 5.4 CFS
 V10= 1.0 FPS
 D10= 1.34 FT
 OUTFALL AT
 -Y2- STA. 44+25 RT

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

2/19/2020 K:\RAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724.ec_psh_07.dgn

5/14/99

MATCHLINE -L- STA 49+00 (SEE SHEET EC-6)

MATCHLINE -Y2- STA 33+00 (SEE SHEET EC-9)

MATCHLINE -Y2- STA 43+00 (SEE SHEET EC-10)

20 DUKE ENERGY
PROGRESS, LLC
DB 3354 PG 163

15 ROBER L WEBBER
DB 1763 PG 433

17 ALEX ECONOMY
DB 1233 PG 905

18 ALEX ECONOMY SR
DB 1264 PG 488

21 KENNETH N FALLIN &
MARY SUE FALLIN
DB 1705 PG 671
PB L PG 401

19 KENNETH N FALLIN &
MARY SUE FALLIN
DB 2587 PG 760
PB M PG 22J

35 KENNETH N FALLIN &
MARY SUE FALLIN
DB 1705 PG 671
PB M PG 22J

36 KENNETH N FALLIN &
MARY SUE FALLIN
DB 1705 PG 671
PB M PG 22I

NEWTON HOMES LLC
DB 2617 PG 783

NEWTON HOMES LLC
DB 2617 PG 783
PB D PG 284

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8**

GRASS SWALE DATA
 DA = 11.6 AC
 SLOPE = 0.23%
 L REQ = 1150 FT
 Q2 = 13.4 CFS
 V2 = 1.2 FPS
 D2 = 1.33 FT
 Q10 = 17.1 CFS
 V10 = 1.8 FPS
 D10 = 1.47 FT

C-C
 STA 19+74
 -Y2- LT
 20'
 5' 7' 5'
 2' WATER DEPTH
 VEGETATED BANKS
 GOOD CONDITION

108' x 27' x 3'
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 11 ft weir
 ID 8.1

SEE CULVERT CONSTRUCTION
 SEQUENCE SHEET EC-8A

GRASS SWALE DATA
 DA = 0.2 AC
 SLOPE = 0.50%
 L REQ = 20 FT
 Q2 = 0.6 CFS
 V2 = 1.1 FPS
 D2 = 0.45 FT
 Q10 = 0.8 CFS
 V10 = 1.1 FPS
 D10 = 0.48 FT

OUTFALL AT
 -Y2- STA. 19+93 RT

 ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

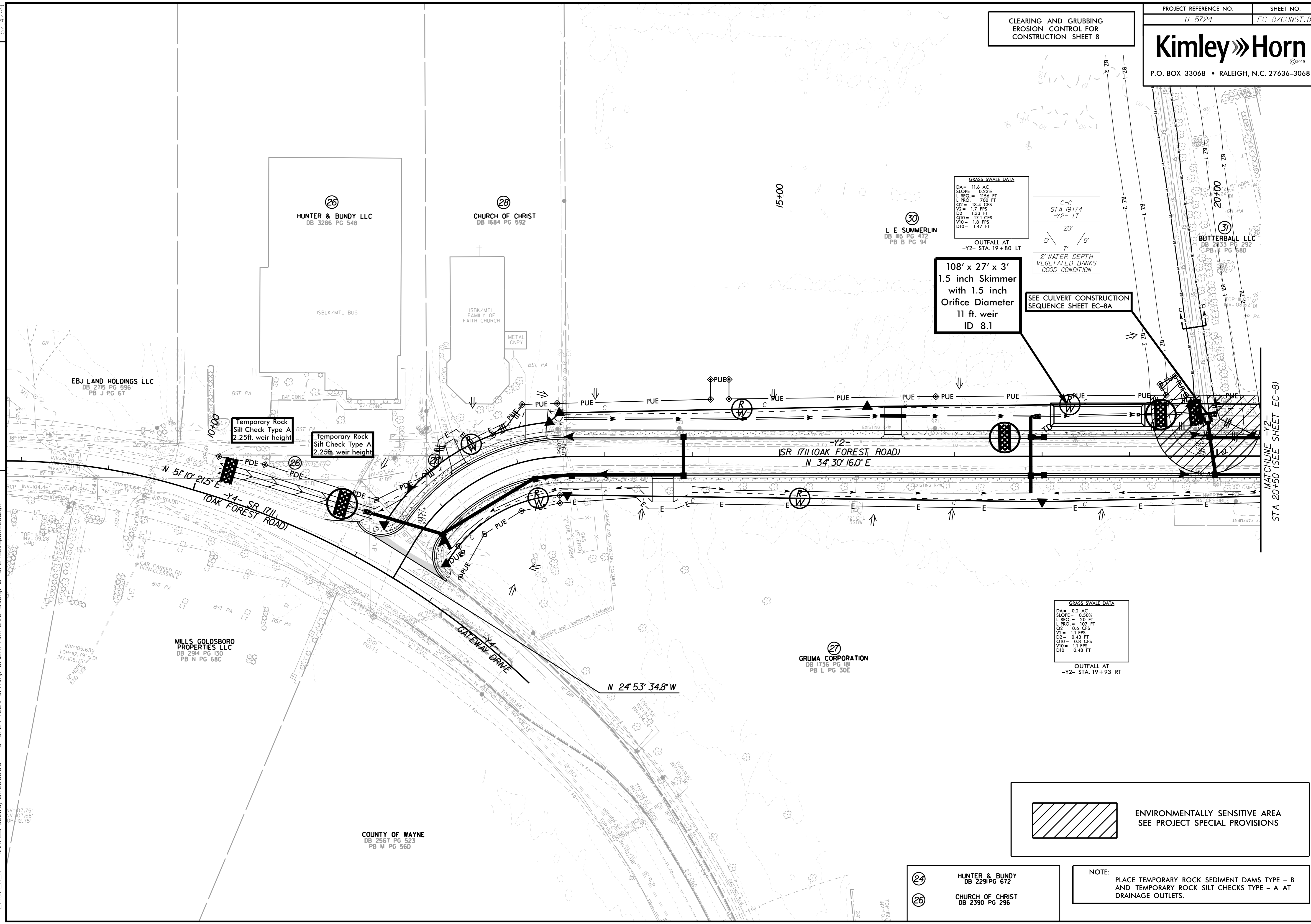
- 24 HUNTER & BUNDY
DB 2291 PG 672
- 26 CHURCH OF CHRIST
DB 2390 PG 296

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

REVISIONS

5/14/1999

2/19/2020 K:\PAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_pst_08.dgn



MATCHLINE -Y2-
 STA 20+50 (SEE SHEET EC-8)

PIPE INSTALLATION SEQUENCE

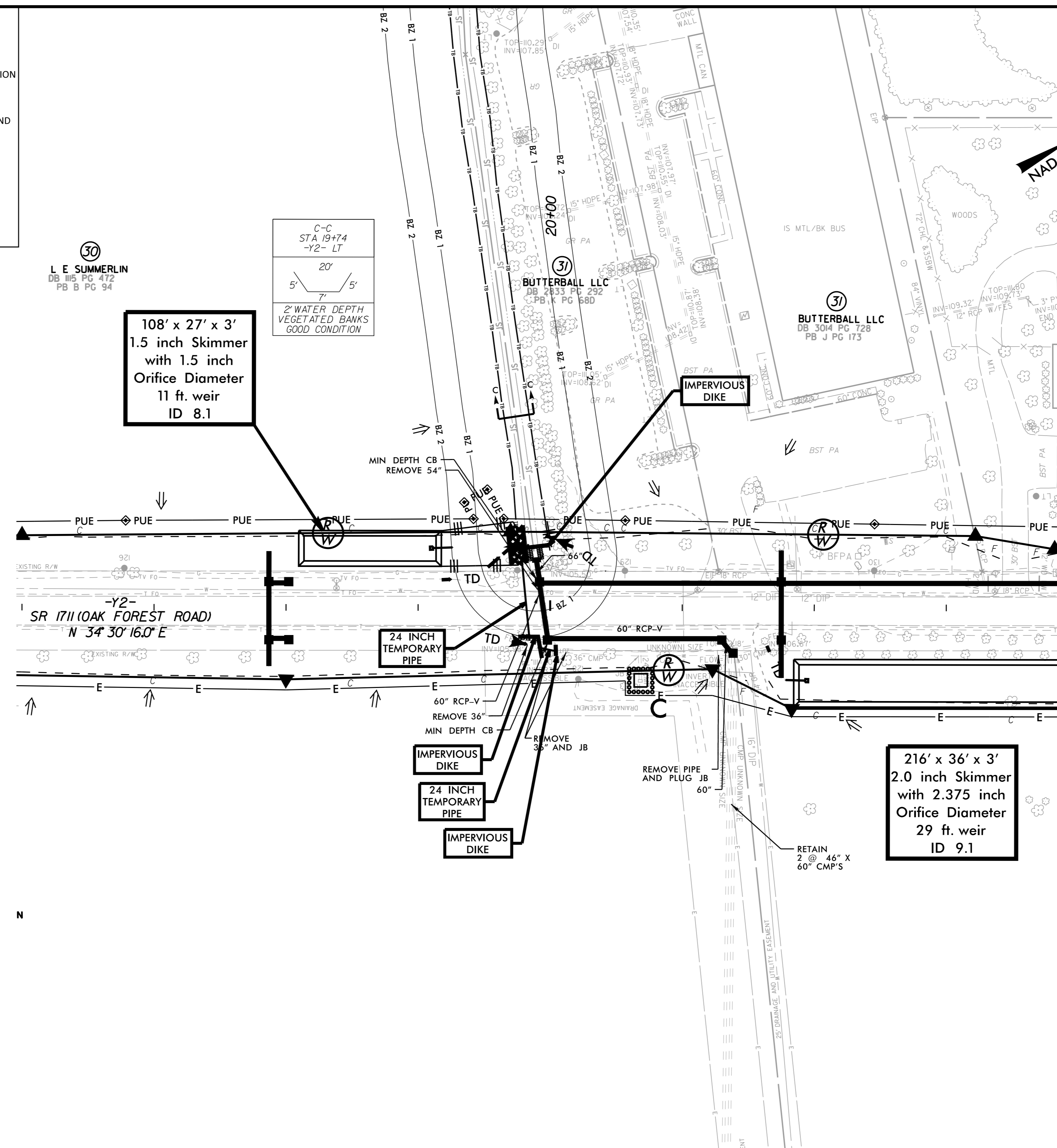
STA. 19+94 -Y2-

STAGE I

CULVERT CONSTRUCTION SEQUENCE
STAGE I

1. CLOSE OAK FOREST ROAD TO TRAFFIC PER TRAFFIC CONTROL PLANS. INSTALL SPECIAL STILLING BASIN(S) AND TEMPORARY SILT FENCE.
2. INSTALL TEMPORARY 24" PIPE ON SOUTH SIDE OF EXCAVATED TRENCH AND TEMPORARY DIVERSION DITCHES. CONSTRUCT IMPERVIOUS DIKES, DIVERTING FLOW THROUGH THE TEMPORARY 24" PIPE.
3. REMOVE EXISTING 54" RCP, 36" CMP AND JUNCTION BOX.
4. DEWATER ENTRAPPED AREA AND CONSTRUCT PROPOSED 66" RCP, HEADWALL, CATCH BASINS AND 60" RCP'S TO TIE BACK TO EXISTING OFFSITE SYSTEM. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. COMPLETE INSTALLATION OF REMAINING STORM SYSTEM AND DITCHES SHOWN WITHIN THE AREA.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES (DOWNSTREAM DIKES FIRST), DIVERTING FLOW THROUGH PROPOSED CULVERT.
7. REMOVE SPECIAL STILLING BASIN(S), STABILIZE DISTURBED AREA WITH SEED AND MULCH AND COMPLETE ROADWAY.

REVISIONS



108' x 27' x 3'
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 11 ft. weir
 ID 8.1

216' x 36' x 3'
 2.0 inch Skimmer
 with 2.375 inch
 Orifice Diameter
 29 ft. weir
 ID 9.1

C-C
 STA 19+74
 -Y2- LT
 20'
 5' 7' 5'

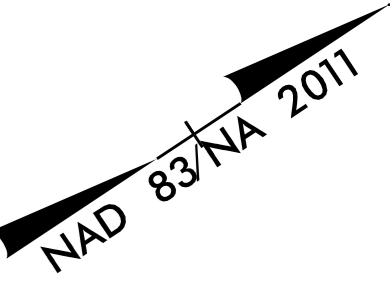
30
 L E SUMMERLIN
 DB 116 PG 472
 PB B PG 94

31
 BUTTERBALL LLC
 DB 2833 PG 292
 PB K PG 580

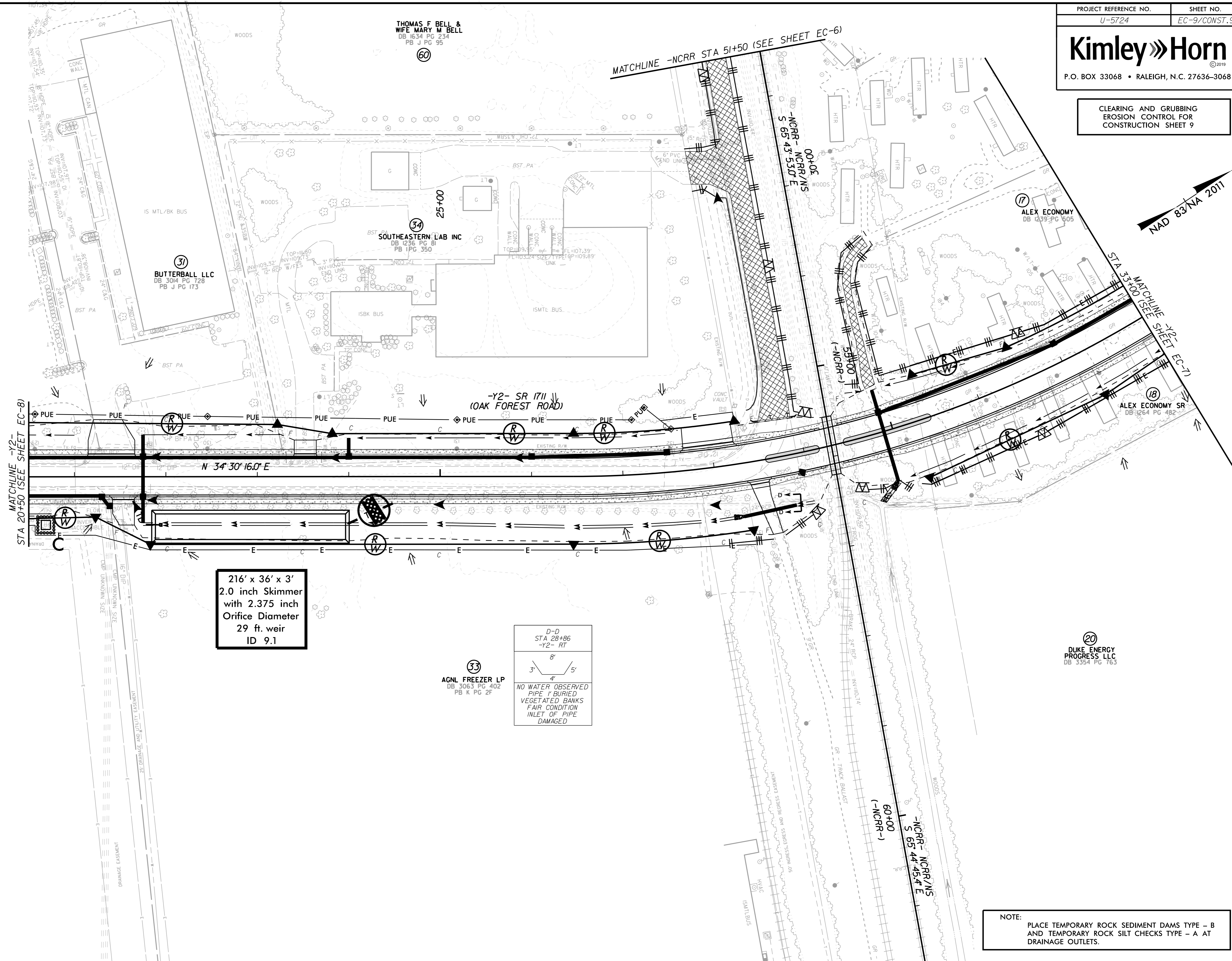
31
 BUTTERBALL LLC
 DB 3014 PG 728
 PB J PG 173

2/19/2020 K:\VAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_pst_8A_pipe_installation.dgn

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 9



REVISIONS



216' x 36' x 3'
 2.0 inch Skimmer
 with 2.375 inch
 Orifice Diameter
 29 ft. weir
 ID 9.1

D-D
 STA 28+86
 -Y2- RT
 8'
 3' 4' 5'
 NO WATER OBSERVED
 PIPE Y BURIED
 VEGETATED BANKS
 FAIR CONDITION
 INLET OF PIPE
 DAMAGED

33
 AGNL FREEZER LP
 DB 3063 PG 402
 PB K PG 2F

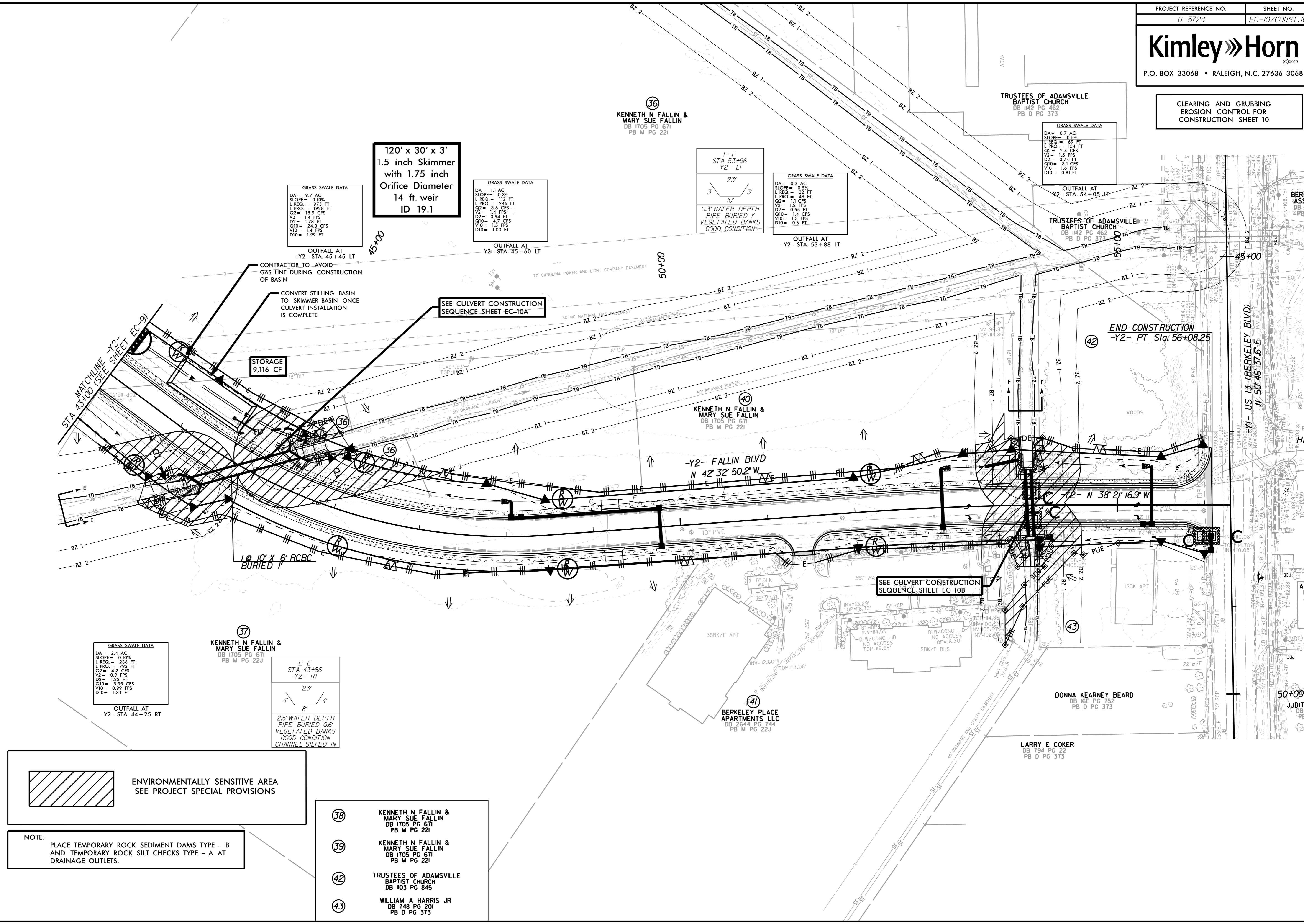
20
 DUKE ENERGY
 PROGRESS LLC
 DB 3354 PG 763

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

5/14/1999
 2/19/2020 K:\PAL_Roadway\010363333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_pst_09.dgn

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 10

REVISIONS



120' x 30' x 3'
 1.5 inch Skimmer
 with 1.75 inch
 Orifice Diameter
 14 ft. weir
 ID 19.1

GRASS SWALE DATA
 DA = 9.7 AC
 SLOPE = 0.10%
 L REQ = 973 FT
 L PRO = 1928 FT
 Q2 = 18.9 CFS
 V2 = 1.4 FPS
 D2 = 1.78 FT
 Q10 = 24.3 CFS
 V10 = 1.4 FPS
 D10 = 1.99 FT

GRASS SWALE DATA
 DA = 1.1 AC
 SLOPE = 0.3%
 L REQ = 112 FT
 L PRO = 246 FT
 Q2 = 3.6 CFS
 V2 = 1.4 FPS
 D2 = 0.94 FT
 Q10 = 4.7 CFS
 V10 = 1.5 FPS
 D10 = 1.03 FT

F-F
 STA 53+96
 -Y2- LT
 23'
 3' 10' 3'
 0.3' WATER DEPTH
 PIPE BURIED 1'
 VEGETATED BANKS
 GOOD CONDITION

GRASS SWALE DATA
 DA = 0.3 AC
 SLOPE = 0.3%
 L REQ = 32 FT
 L PRO = 48 FT
 Q2 = 1.1 CFS
 V2 = 1.2 FPS
 D2 = 0.55 FT
 Q10 = 1.4 CFS
 V10 = 1.3 FPS
 D10 = 0.6 FT

GRASS SWALE DATA
 DA = 0.7 AC
 SLOPE = 0.3%
 L REQ = 89 FT
 L PRO = 134 FT
 Q2 = 2.4 CFS
 V2 = 1.5 FPS
 D2 = 0.74 FT
 Q10 = 3.1 CFS
 V10 = 1.6 FPS
 D10 = 0.81 FT

OUTFALL AT
 -Y2- STA. 45+45 LT

OUTFALL AT
 -Y2- STA. 45+60 LT

OUTFALL AT
 -Y2- STA. 53+88 LT

OUTFALL AT
 -Y2- STA. 54+05 LT

STORAGE
 9,116 CF

SEE CULVERT CONSTRUCTION
 SEQUENCE SHEET EC-10A

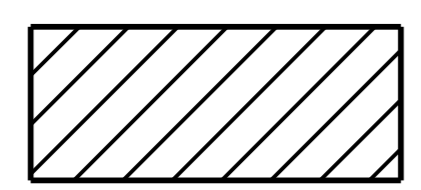
SEE CULVERT CONSTRUCTION
 SEQUENCE SHEET EC-10B

END CONSTRUCTION
 -Y2- PT Sta. 56+08.25

GRASS SWALE DATA
 DA = 2.4 AC
 SLOPE = 0.10%
 L REQ = 236 FT
 L PRO = 792 FT
 Q2 = 4.2 CFS
 V2 = 0.9 FPS
 D2 = 1.22 FT
 Q10 = 3.35 CFS
 V10 = 0.99 FPS
 D10 = 1.34 FT

37
 KENNETH N FALLIN &
 MARY SUE FALLIN
 DB 1705 PG 671
 PB M PG 22J

E-E
 STA 43+86
 -Y2- RT
 23'
 4' 8' 4'
 2.5' WATER DEPTH
 PIPE BURIED 0.6'
 VEGETATED BANKS
 CHANNEL SILTED IN



ENVIRONMENTALLY SENSITIVE AREA
 SEE PROJECT SPECIAL PROVISIONS

NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

- 38** KENNETH N FALLIN &
MARY SUE FALLIN
DB 1705 PG 671
PB M PG 22J
- 39** KENNETH N FALLIN &
MARY SUE FALLIN
DB 1705 PG 671
PB M PG 22J
- 42** TRUSTEES OF ADAMSVILLE
BAPTIST CHURCH
DB 1103 PG 845
- 43** WILLIAM A HARRIS JR
DB 748 PG 201
PB D PG 373

2/20/2020 K:\RAL_Roadway\010363333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_psh_10.dgn

CULVERT CONSTRUCTION SEQUENCE

STA. 44 + 87 -Y2-

STAGE I

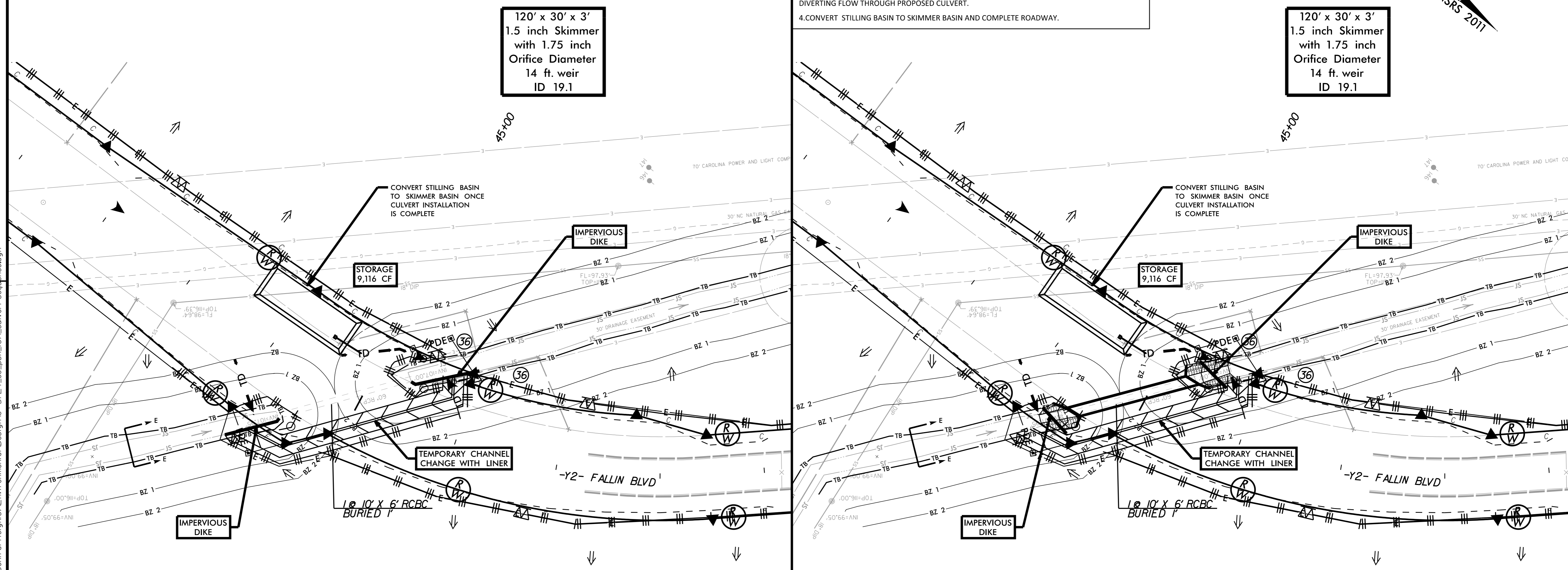
STAGE II

- CULVERT CONSTRUCTION SEQUENCE Stage I**
1. CONSTRUCT STILLING BASIN (6,440 CY).
 2. CONSTRUCT IMPERVIOUS DIKES TO PROTECT WORK AREA FOR TEMPORARY CHANNEL.
 3. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (2 FT BASE, 3 FT DEEP, 3:1 SIDE SLOPES).
 4. REMOVE IMPERVIOUS DIKES AT TEMPORARY CHANNEL.

- CULVERT CONSTRUCTION SEQUENCE Stage II**
1. CONSTRUCT IMPERVIOUS DIKES, DIVERTING FLOW THROUGH THE TEMPORARY CHANNEL CHANGE.
 2. REMOVE EXISTING CULVERT, DEWATER ENTRAPPED AREA AND CONSTRUCT PROPOSED CULVERT AND HEADWALLS ACCORDING TO PLANS. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
 3. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES, REMOVE IMPERVIOUS DIKES (DOWNSTREAM DIKES FIRST), AND TEMPORARY CHANNEL CHANGE, DIVERTING FLOW THROUGH PROPOSED CULVERT.
 4. CONVERT STILLING BASIN TO SKIMMER BASIN AND COMPLETE ROADWAY.

120' x 30' x 3'
 1.5 inch Skimmer
 with 1.75 inch
 Orifice Diameter
 14 ft. weir
 ID 19.1

120' x 30' x 3'
 1.5 inch Skimmer
 with 1.75 inch
 Orifice Diameter
 14 ft. weir
 ID 19.1



37
 KENNETH N. FALLIN &
 MARY SUE FALLIN
 DB 1705 PG. 671
 PB M PG. 22J

E-E STA 43+86 -Y2- RT
23'
4' 8'

2.5' WATER DEPTH
 PIPE BURIED 0.6'
 VEGETATED BANKS
 GOOD CONDITION
 CHANNEL SILTED IN

37
 KENNETH N. FALLIN &
 MARY SUE FALLIN
 DB 1705 PG. 671
 PB M PG. 22J

E-E STA 43+86 -Y2- RT
23'
4' 8'

2.5' WATER DEPTH
 PIPE BURIED 0.6'
 VEGETATED BANKS
 GOOD CONDITION
 CHANNEL SILTED IN

REVISIONS

5/14/99
 K:\PAL_Roadway\01036333 - U-5724 (Central Heights)\Environmental\Design\U-5724.ec_psh_10A_culvert_sequence.dgn
 2/19/2020

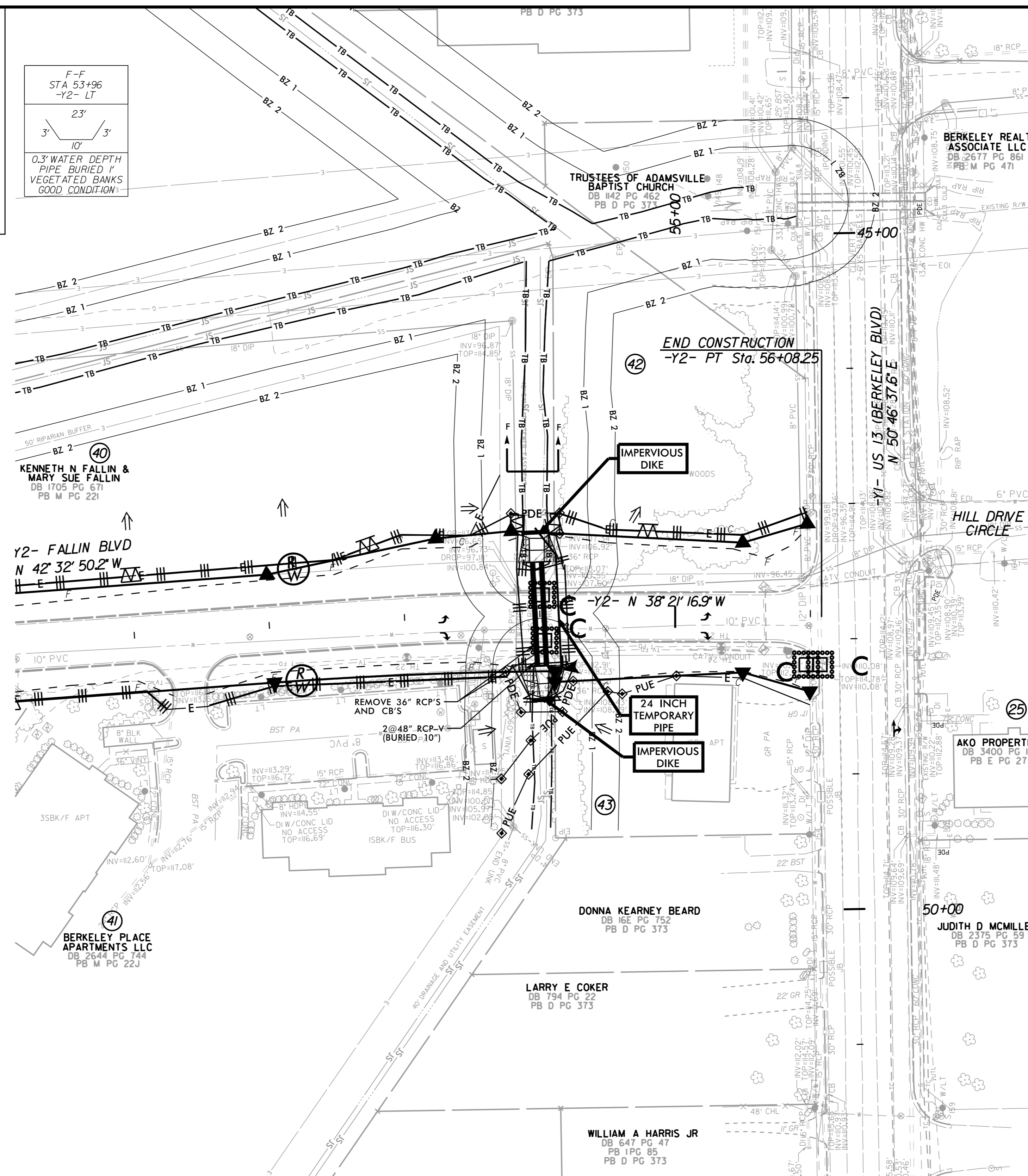
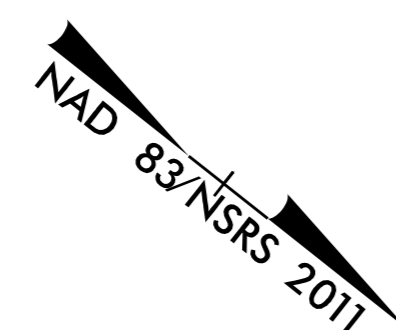
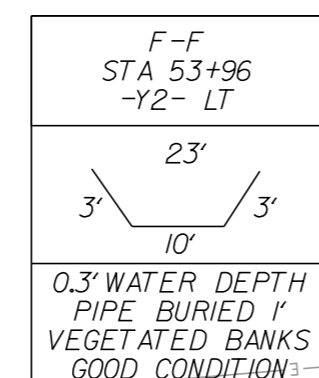
PIPE INSTALLATION SEQUENCE

STA. 54 + 00 -Y2-

STAGE I

CULVERT CONSTRUCTION SEQUENCE STAGE I

1. ONCE FALLIN BLVD EXTENSION IS CONSTRUCTED AND OPEN TO DETOUR TRAFFIC FROM CENTRAL HEIGHTS RD TO THE APARTMENT COMPLEX DRIVEWAY, CLOSE EXISTING FALLIN BLVD BETWEEN CULVERTS AND BERKELEY BLVD TO TRAFFIC. INSTALL SPECIAL STILLING BASIN(S) AND TEMPORARY SILT FENCE.
2. INSTALL TEMPORARY 24" PIPE ON NORTH SIDE OF EXCAVATED TRENCH. CONSTRUCT IMPERVIOUS DIKES, DIVERTING FLOW THROUGH THE TEMPORARY 24" PIPE.
3. REMOVE EXISTING 36" RCP'S AND CATCH BASINS.
4. DEWATER ENTRAPPED AREA AND CONSTRUCT PROPOSED 48" RCP'S (BURIED 10") AND HEADWALLS. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES (DOWNSTREAM DIKES FIRST), DIVERTING FLOW THROUGH PROPOSED CULVERT.
6. REMOVE SPECIAL STILLING BASIN(S), STABILIZE DISTURBED AREA WITH SEED AND MULCH AND COMPLETE ROADWAY.



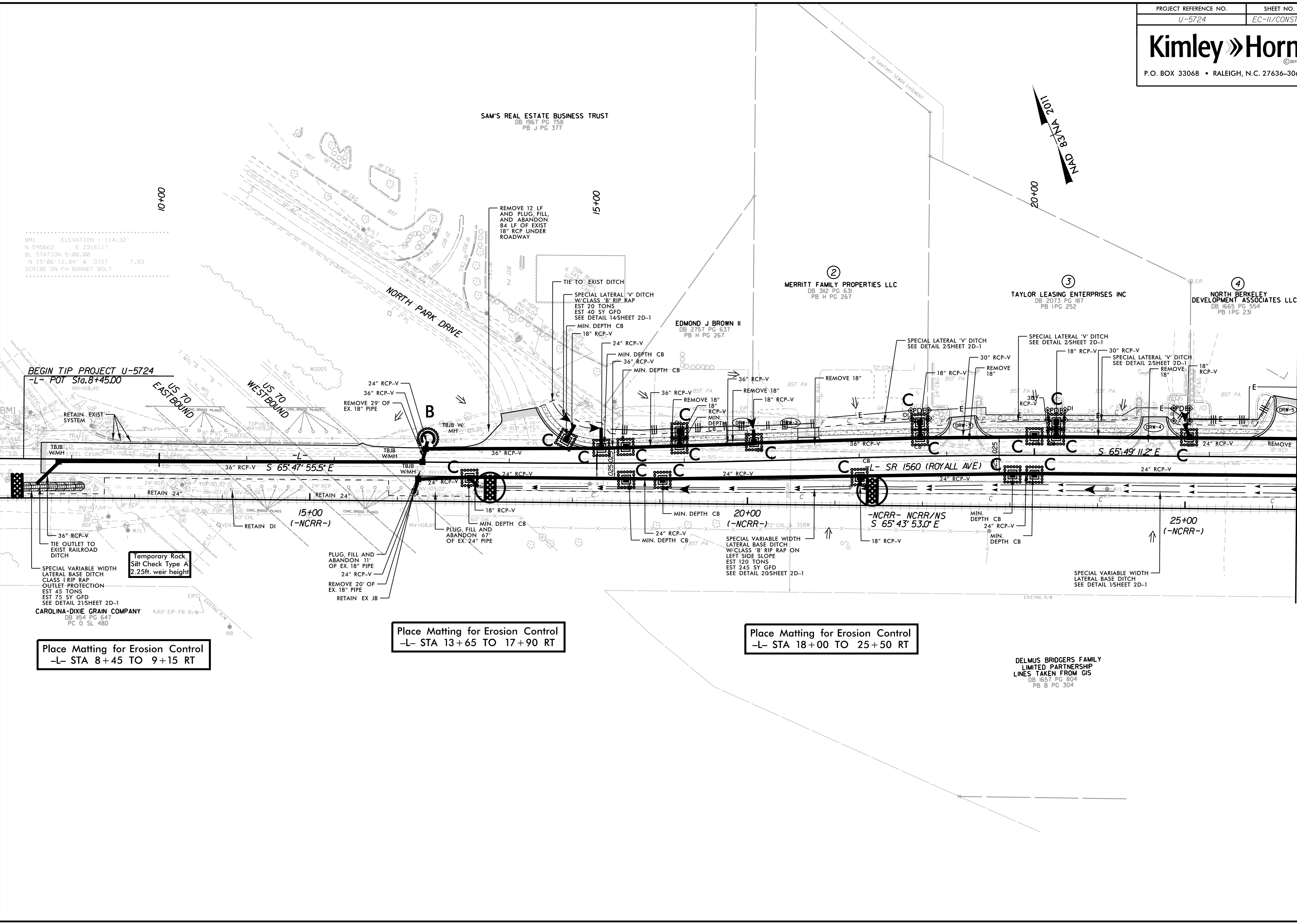
REVISIONS

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5/14/99

5/14/1999
 8/31/2020 K:\RAL_Roadway\010363333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_psh_l.dgn

REVISIONS



BMI ELEVATION = 114.32
 N 59°56'63" E 2316117
 BL STATION 5+00.00
 N 15°06'12.84" W DIST 7.83
 SCRIBE ON FH BONNET BOLT

BEGIN TIP PROJECT U-5724
 -L- POT Sta. 8+45.00

SPECIAL VARIABLE WIDTH LATERAL BASE DITCH CLASS I RIP RAP OUTLET PROTECTION EST 45 TONS SEE DETAIL 21/SHEET 2D-1
 CAROLINA-DIXIE GRAIN COMPANY DB 1154 PG 647 PC 0 SL 48D

Place Matting for Erosion Control
 -L- STA 8+45 TO 9+15 RT

Temporary Rock Silt Check Type A
 2.25ft. weir height

Place Matting for Erosion Control
 -L- STA 13+65 TO 17+90 RT

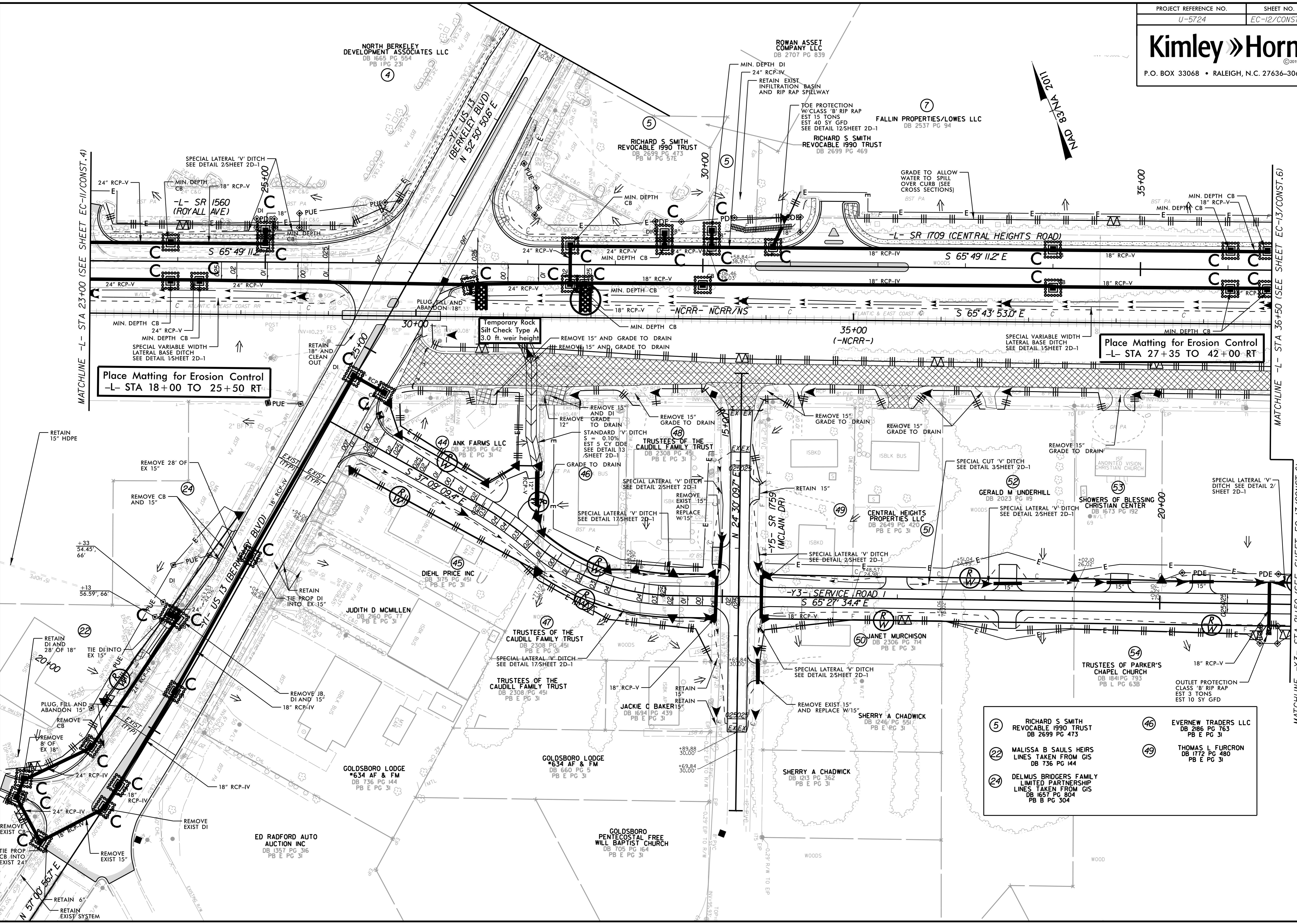
Place Matting for Erosion Control
 -L- STA 18+00 TO 25+50 RT

DELMUS BRIDGERS FAMILY LIMITED PARTNERSHIP LINES TAKEN FROM GIS DB 1657 PG 804 PB B PG 304

MATCHLINE -L- STA 23+00 (SEE SHEET EC-12/CONST.5)

REVISIONS

5/14/1999
 2/19/2020
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Place Matting for Erosion Control
 -L- STA 18+00 TO 25+50 RT

Place Matting for Erosion Control
 -L- STA 27+35 TO 42+00 RT

- 5 RICHARD S SMITH REVOCABLE 1990 TRUST DB 2699 PG 473
- 22 MALISSA B SAULS HEIRS LINES TAKEN FROM GIS DB 736 PG 144
- 24 DELMUS BRIDGERS FAMILY LIMITED PARTNERSHIP LINES TAKEN FROM GIS DB 1657 PG 804 PB B PG 304
- 46 EVERNEW TRADERS LLC DB 2186 PG 763 PB E PG 31
- 49 THOMAS L FURCRON DB 1772 PG 480 PB E PG 31

MATCHLINE -L- STA 36+50 (SEE SHEET EC-13/CONST.6)

MATCHLINE -Y3- STA 21+50 (SEE SHEET EC-13/CONST.6)

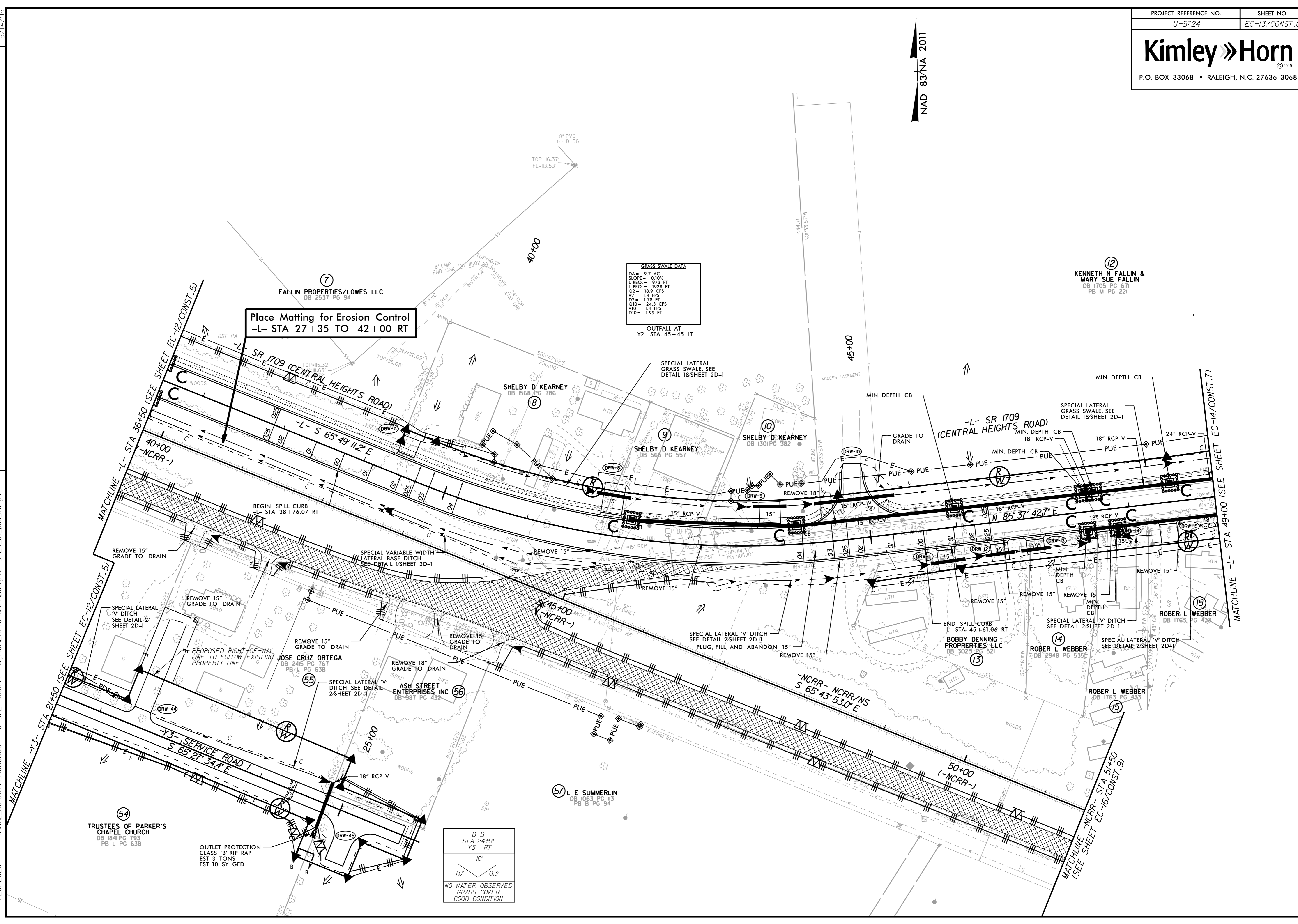
NAD 83/NA 2011

REVISIONS

GRASS SWALE DATA	
DA =	9.7 AC
SLOPE =	0.10%
L REQ =	973 FT
L PRO =	1928 FT
Q2 =	18.9 CFS
V2 =	1.4 FPS
D2 =	1.78 FT
Q10 =	24.3 CFS
V10 =	1.4 FPS
D10 =	1.99 FT

OUTFALL AT
-Y2- STA. 45+45 LT

Place Matting for Erosion Control
-L- STA 27+35 TO 42+00 RT



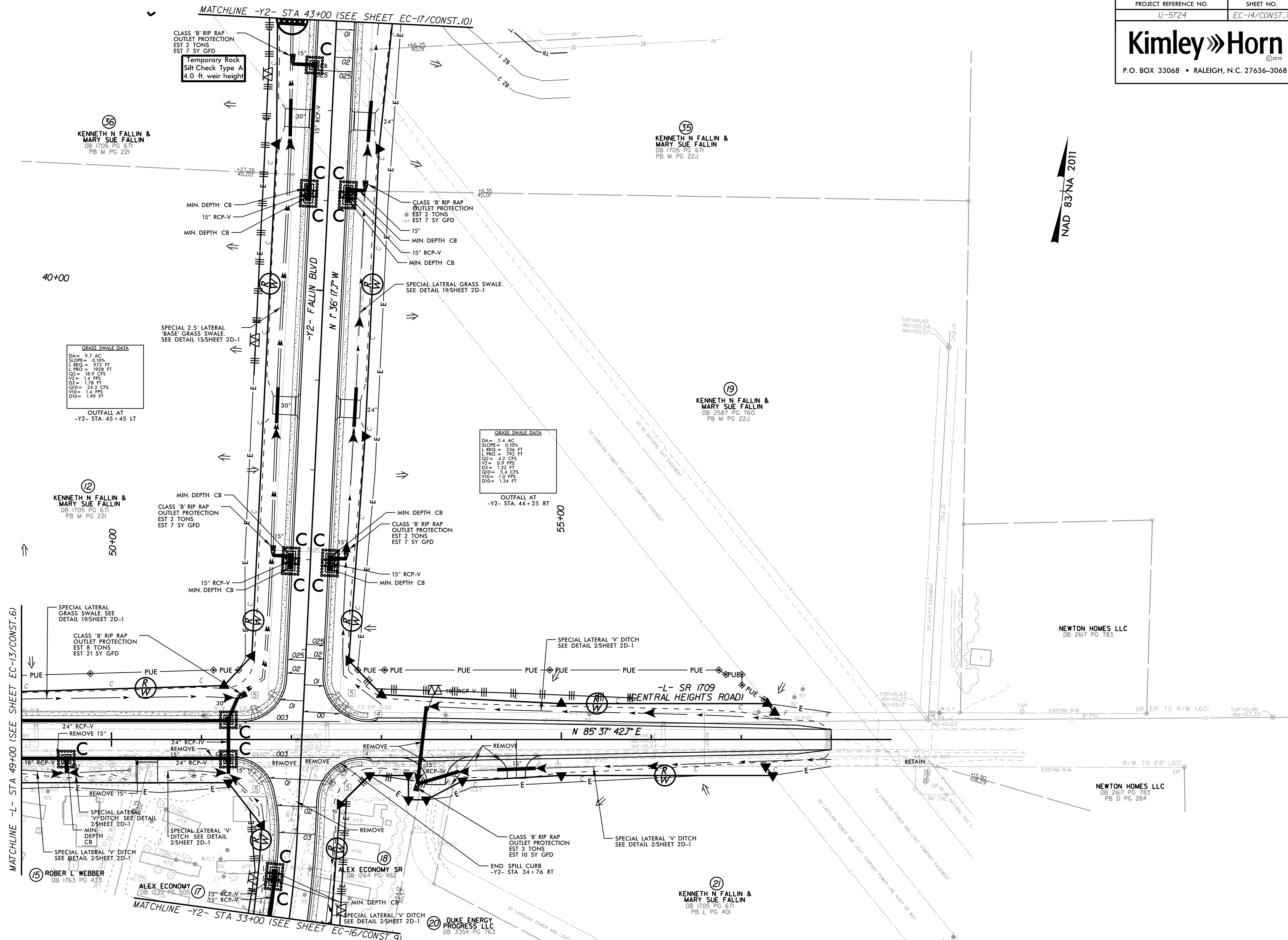
B-B
STA 24+91
-Y3- RT
10'
10' 0.3'

NO WATER OBSERVED
GRASS COVER
GOOD CONDITION

5/14/1999
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4/29/2020

NAD 83/NA 2011

REVISIONS



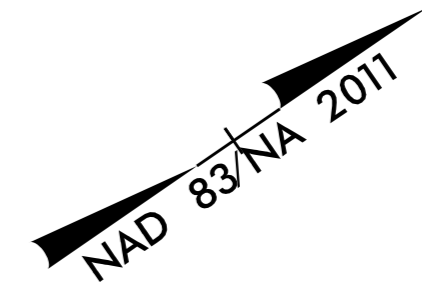
GRASS SWALE DATA
 DA = 9.7 AC
 SLOPE = 0.10%
 L REQ = 973 FT
 L PRO = 1928 FT
 Q2 = 18.9 CFS
 V2 = 1.4 FPS
 D2 = 1.78 FT
 Q10 = 24.3 CFS
 V10 = 1.4 FPS
 D10 = 1.99 FT
 OUTFALL AT
 -Y2- STA. 45+45 LT

GRASS SWALE DATA
 DA = 2.4 AC
 SLOPE = 0.10%
 L REQ = 236 FT
 L PRO = 792 FT
 Q2 = 4.2 CFS
 V2 = 0.9 FPS
 D2 = 1.22 FT
 Q10 = 5.4 CFS
 V10 = 1.0 FPS
 D10 = 1.34 FT
 OUTFALL AT
 -Y2- STA. 44+25 RT

MATCHLINE -L- STA 49+00 (SEE SHEET EC-13/CONST.6)

MATCHLINE -Y2- STA 33+00 (SEE SHEET EC-16/CONST.9)

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 5/14/99



REVISIONS

GRASS SWALE DATA
 DA = 11.6 AC
 SLOPE = 0.23%
 L REQ = 1156 FT
 L PRO = 700 FT
 Q2 = 13.4 CFS
 V2 = 1.7 FPS
 D2 = 1.33 FT
 Q10 = 17.1 CFS
 V10 = 1.8 FPS
 D10 = 1.47 FT

C-C
 STA 19+74
 -Y2- LT
 20'
 5' 7' 5'
 2' WATER DEPTH
 VEGETATED BANKS
 GOOD CONDITION

108' x 27' x 3'
 1.5 inch Skimmer
 with 1.5 inch
 Orifice Diameter
 11 ft. weir
 ID 8.1

CLASS '1' RIP RAP
 OUTLET PROTECTION
 (BANKS ONLY)
 EST 48 TONS
 EST 89 SY GFD

CLASS 'B' RIP RAP
 OUTLET PROTECTION
 EST 3 TONS
 EST 10 SY GFD

MIN DEPTH CB
 REMOVE 54'

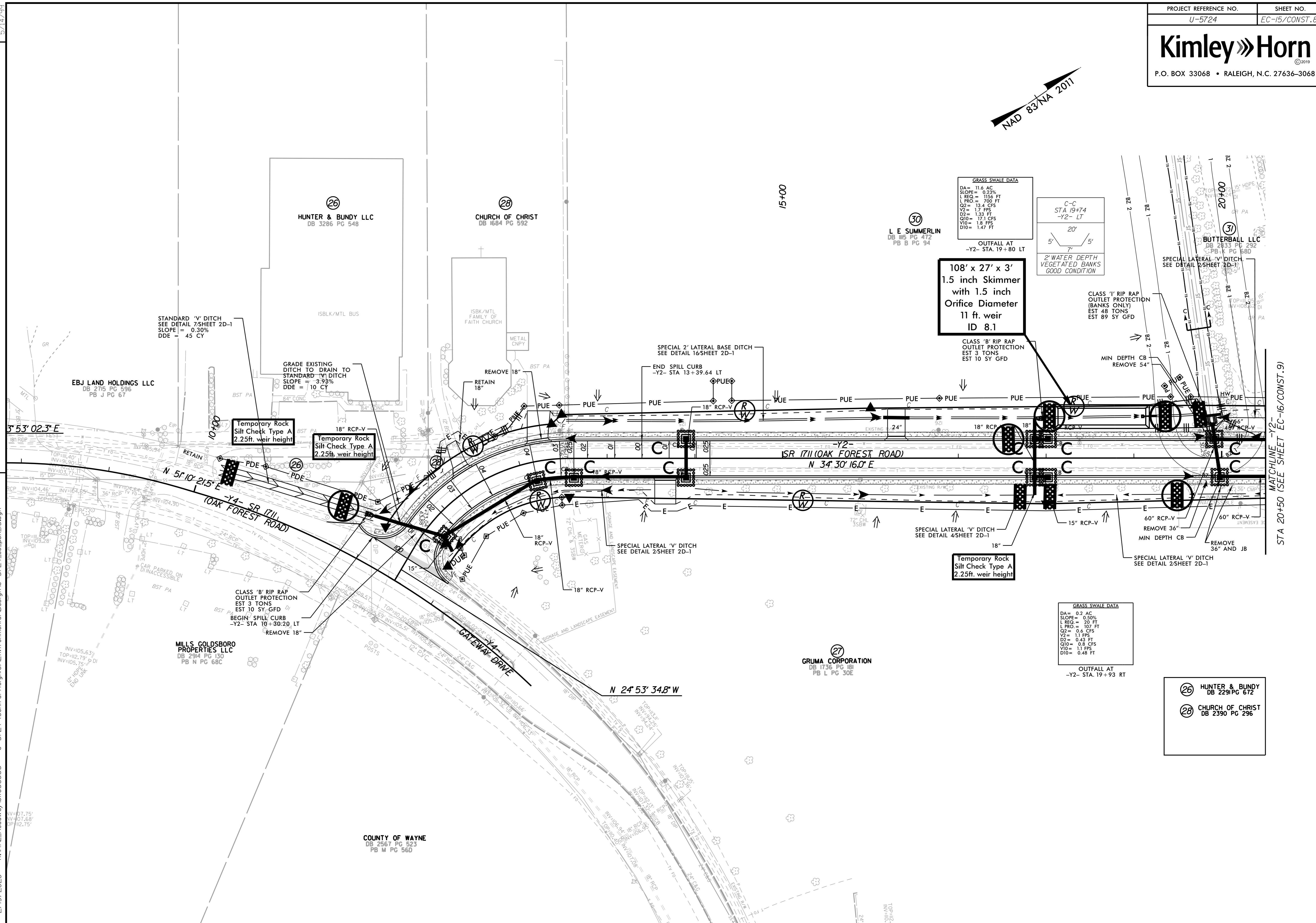
Temporary Rock
 Silt Check Type A
 2.25ft. weir height

GRASS SWALE DATA
 DA = 0.2 AC
 SLOPE = 0.50%
 L REQ = 20 FT
 L PRO = 107 FT
 Q2 = 0.6 CFS
 V2 = 1.1 FPS
 D2 = 0.45 FT
 Q10 = 0.8 CFS
 V10 = 1.1 FPS
 D10 = 0.48 FT

OUTFALL AT
 -Y2- STA. 19+93 RT

26 HUNTER & BUNDY
 DB 2291 PG 672

28 CHURCH OF CHRIST
 DB 2390 PG 296



MATCHLINE -Y2-
 STA 20+50 (SEE SHEET EC-16/CONST. 9)

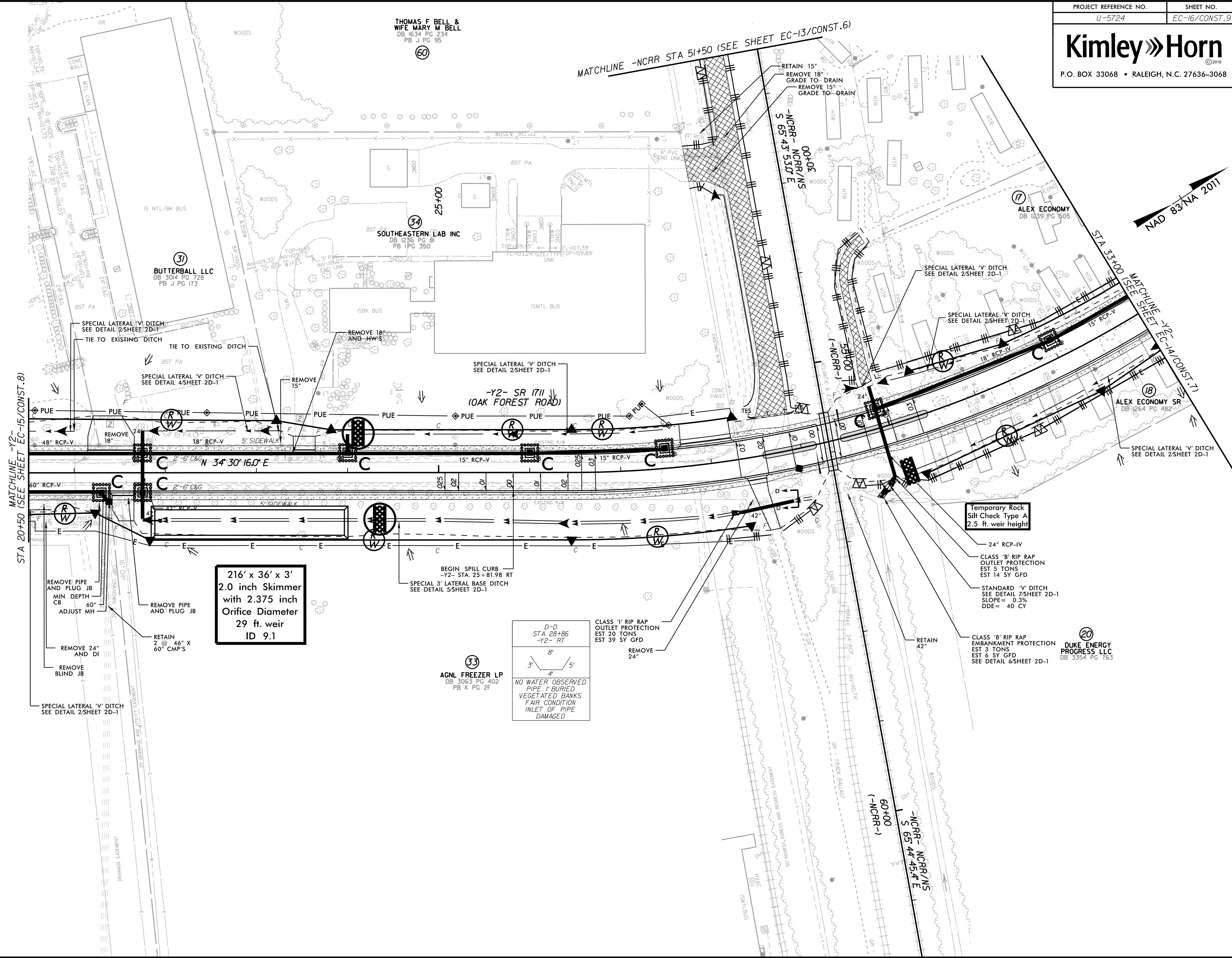
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COUNTY OF WAYNE
 DB 2567 PG 523
 PB M PG 560

REVISIONS

5/14/1999

2/19/2020 K:\PAL_Roadway\010363333 - U-5724 (Central Heights)\Environmental\Design\U-5724_ec_psh_16.dgn



216' x 36' x 3'
 2.0 inch Skimmer
 with 2.375 inch
 Orifice Diameter
 29 ft. weir
 ID 9.1

D-D
 STA 28+86
 -Y2- RT
 8'
 3' 4' 5'
 NO WATER OBSERVED
 PIPE 1' BURIED
 VEGETATED BANKS
 FAIR CONDITION
 INLET OF PIPE
 DAMAGED

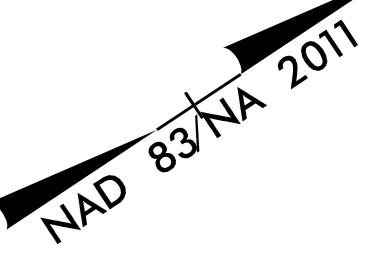
Temporary Rock
 Silt Check Type A
 2.5 ft. weir height

24" RCP-IV
 CLASS 'B' RIP RAP
 OUTLET PROTECTION
 EST 5 TONS
 EST 14 SY GFD

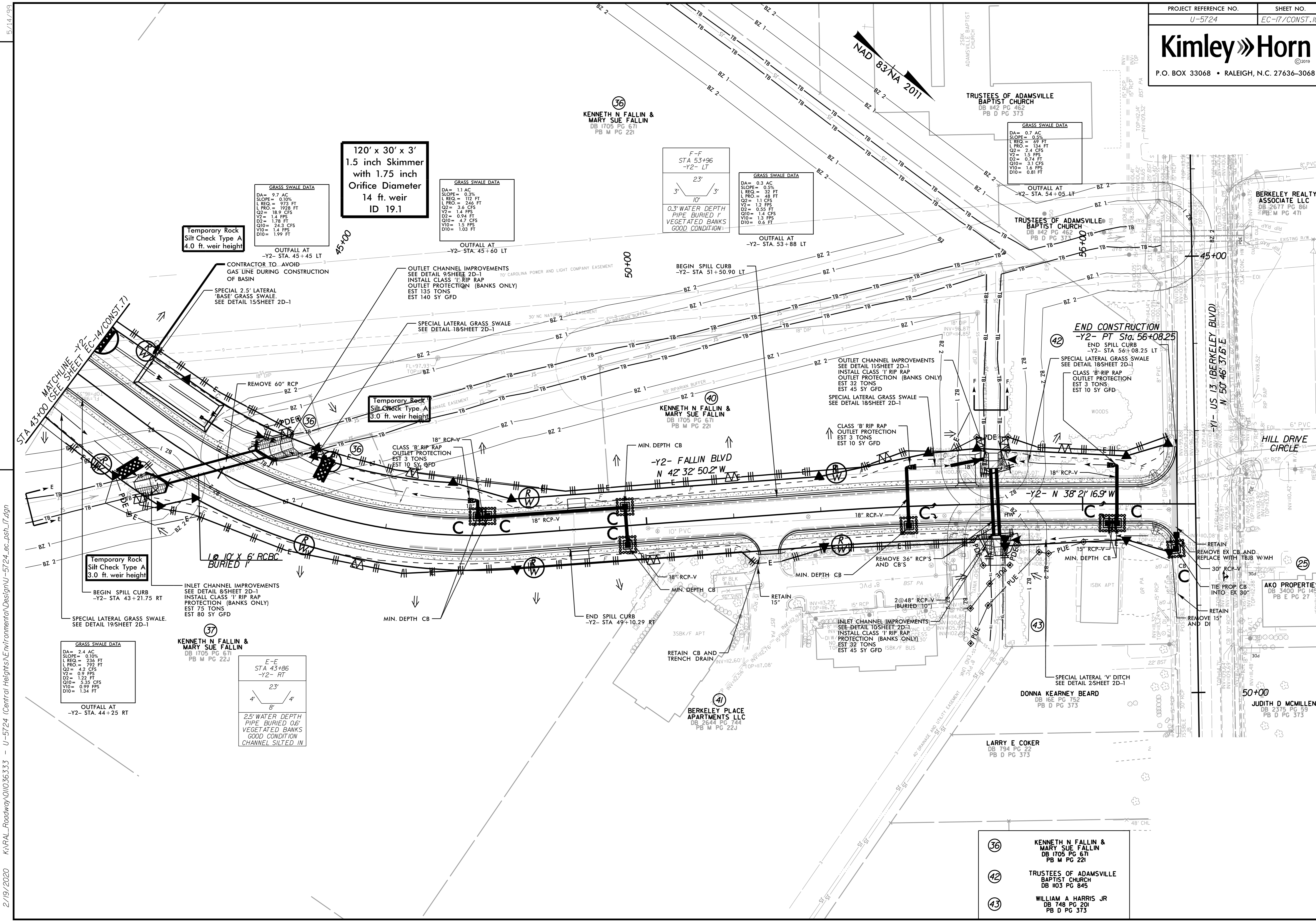
CLASS 'B' RIP RAP
 EMBANKMENT PROTECTION
 EST 3 TONS
 EST 6 SY GFD
 SEE DETAIL 6/SHEET 2D-1

33
 AGNL FREEZER LP
 DB 3063 PG 402
 PB K PG 2F

20
 DUKE ENERGY
 PROGRESS LLC
 DB 3354 PG 763



REVISIONS



Temporary Rock Silt Check Type A
4.0 ft. weir height

120' x 30' x 3'
1.5 inch Skimmer
with 1.75 inch Orifice Diameter
14 ft. weir
ID 19.1

Temporary Rock Silt Check Type A
3.0 ft. weir height

Temporary Rock Silt Check Type A
3.0 ft. weir height

GRASS SWALE DATA
 DA= 2.4 AC
 SLOPE= 0.10%
 L REQ= 236 FT
 L PRO= 192 FT
 Q2= 4.2 CFS
 V2= 0.9 FPS
 D2= 1.22 FT
 Q10= 5.36 CFS
 V10= 0.99 FPS
 D10= 1.34 FT

37
 KENNETH N FALLIN & MARY SUE FALLIN
 DB 1705 PG 671
 PB M PG 22J

E-E
 STA 43+86
 -Y2- RT
 23'
 4' 8' 4'

2.5' WATER DEPTH
 PIPE BURIED 0.6'
 VEGETATED BANKS
 GOOD CONDITION
 CHANNEL SILTED IN

GRASS SWALE DATA
 DA= 9.7 AC
 SLOPE= 0.10%
 L REQ= 979 FT
 L PRO= 1928 FT
 Q2= 18.9 CFS
 V2= 1.4 FPS
 D2= 1.78 FT
 Q10= 24.3 CFS
 V10= 1.4 FPS
 D10= 1.99 FT

GRASS SWALE DATA
 DA= 1.1 AC
 SLOPE= 0.3%
 L REQ= 112 FT
 L PRO= 246 FT
 Q2= 3.6 CFS
 V2= 1.4 FPS
 D2= 0.94 FT
 Q10= 4.7 CFS
 V10= 1.5 FPS
 D10= 1.03 FT

F-F
 STA 53+96
 -Y2- LT
 23'
 3' 10' 3'

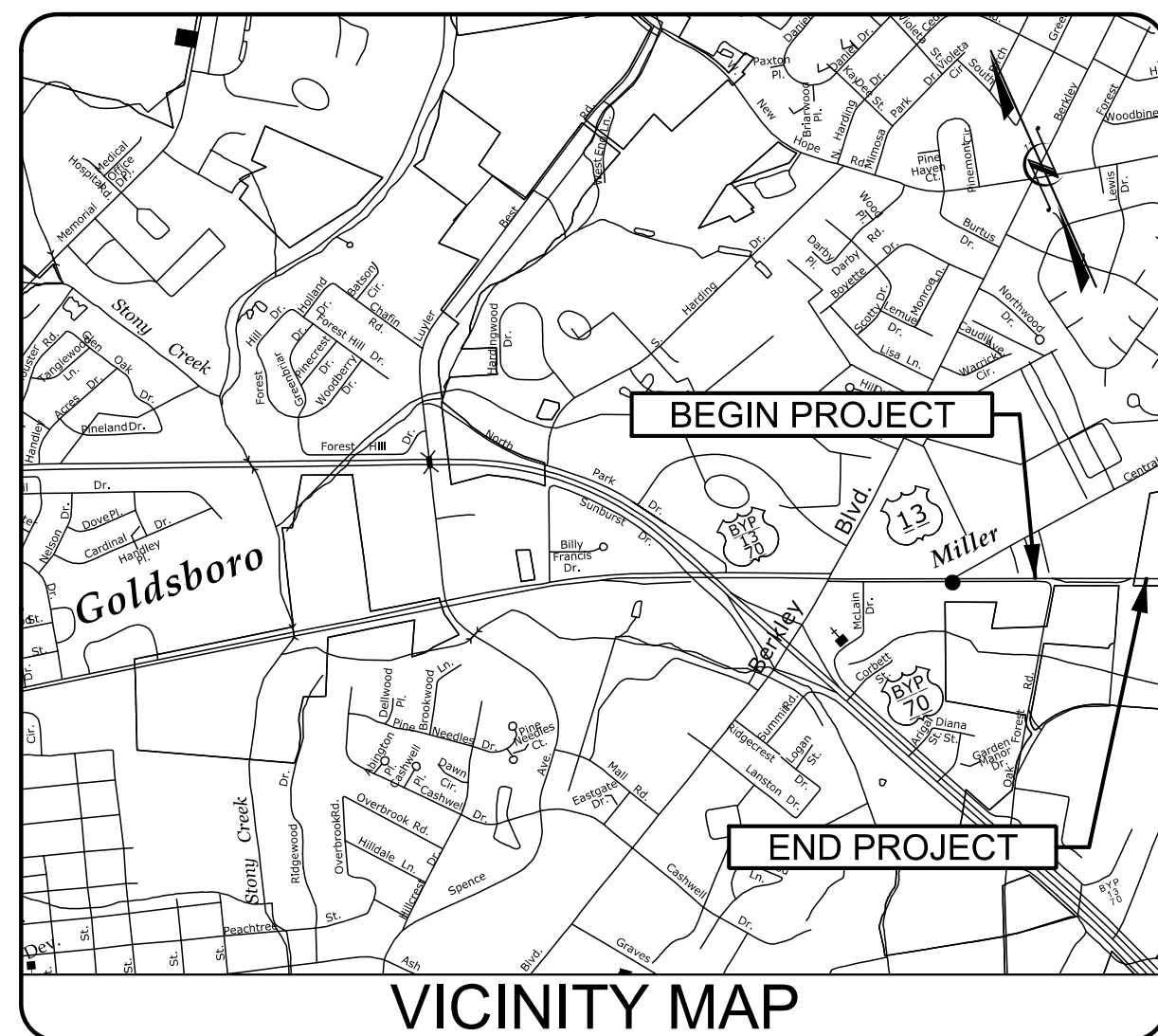
GRASS SWALE DATA
 DA= 0.3 AC
 SLOPE= 0.3%
 L REQ= 32 FT
 L PRO= 48 FT
 Q2= 1.1 CFS
 V2= 1.2 FPS
 D2= 0.55 FT
 Q10= 1.4 CFS
 V10= 1.3 FPS
 D10= 0.6 FT

GRASS SWALE DATA
 DA= 0.7 AC
 SLOPE= 0.3%
 L REQ= 49 FT
 L PRO= 134 FT
 Q2= 2.4 CFS
 V2= 1.3 FPS
 D2= 0.74 FT
 Q10= 3.1 CFS
 V10= 1.6 FPS
 D10= 0.81 FT

- 36 KENNETH N FALLIN & MARY SUE FALLIN
DB 1705 PG 671
PB M PG 22J
- 42 TRUSTEES OF ADAMSVILLE BAPTIST CHURCH
DB 103 PG 845
- 43 WILLIAM A HARRIS JR
DB 748 PG 201
PB D PG 373

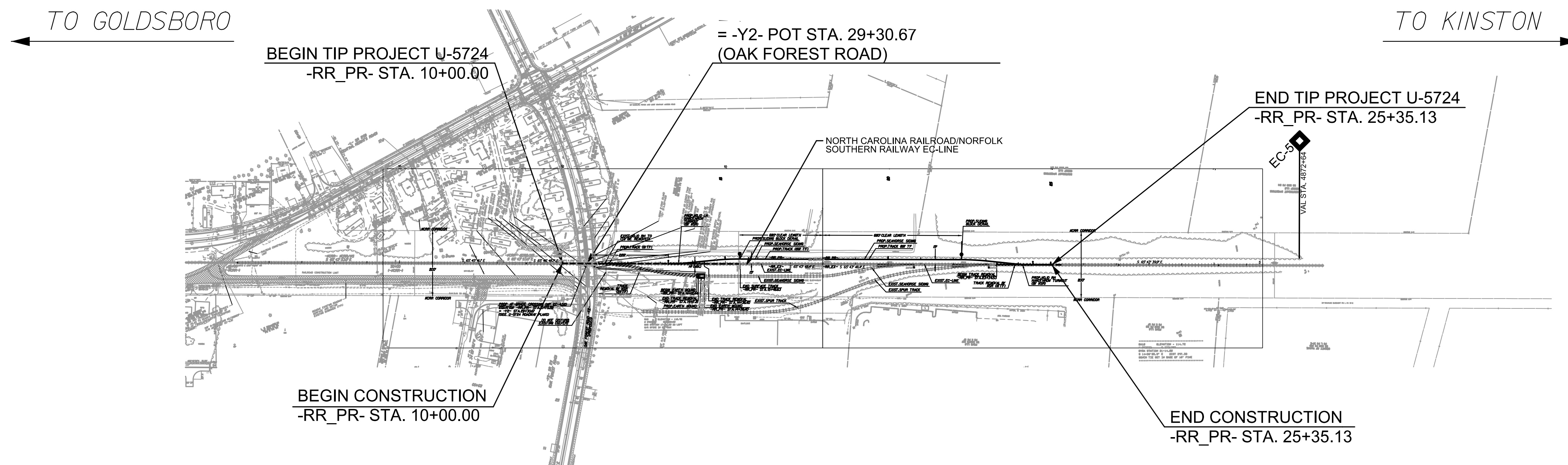
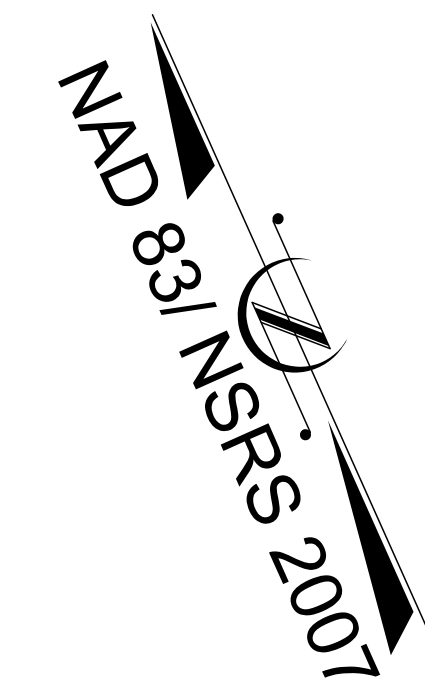
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TIP PROJECT: U-5724



STATE OF NORTH CAROLINA
RAIL DIVISION
**PLAN FOR PROPOSED
EROSION CONTROL**
WAYNE COUNTY

LOCATION: SEAHORSE SIDING RELOCATION (MP EC-4.6)
TYPE OF WORK: DRAINAGE, GRADING, TRACKWORK



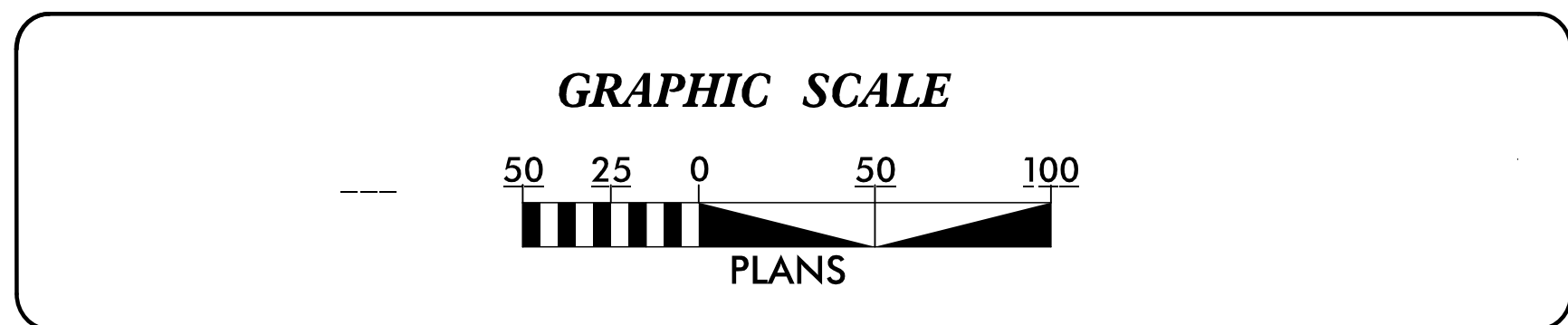
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5724	EC-18	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	△△△△△
1622.01	Temporary Berms and Slope Drains	→
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▩
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▩
1633.02	Temporary Rock Silt Check Type-B	▩
	Wattle/Coir Fiber Wattle	→
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	→
1634.01	Temporary Rock Sediment Dam Type-A	▩
1634.02	Temporary Rock Sediment Dam Type-B	▩
1635.01	Rock Pipe Inlet Sediment Trap Type-A	⊓
1635.02	Rock Pipe Inlet Sediment Trap Type-B	⊓
1630.04	Stilling Basin	▭
1630.06	Special Stilling Basin	▭
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▭
	Tiered Skimmer Basin	▭
	Infiltration Basin	▭

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**

**THIS PROJECT HAS
BEEN DESIGNED TO
SENSITIVE WATERSHED
STANDARDS.**



**THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH
THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000
GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019
AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF
ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.**

HNTB

HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

Prepared In the Office of:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

Designed by:

Natalie Chan, P.E. **3444**

NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

3/10/2020 U-5724-EC-18-490
HNTB

PROJECT REFERENCE NO. U-5724	SHEET NO. EC-19
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

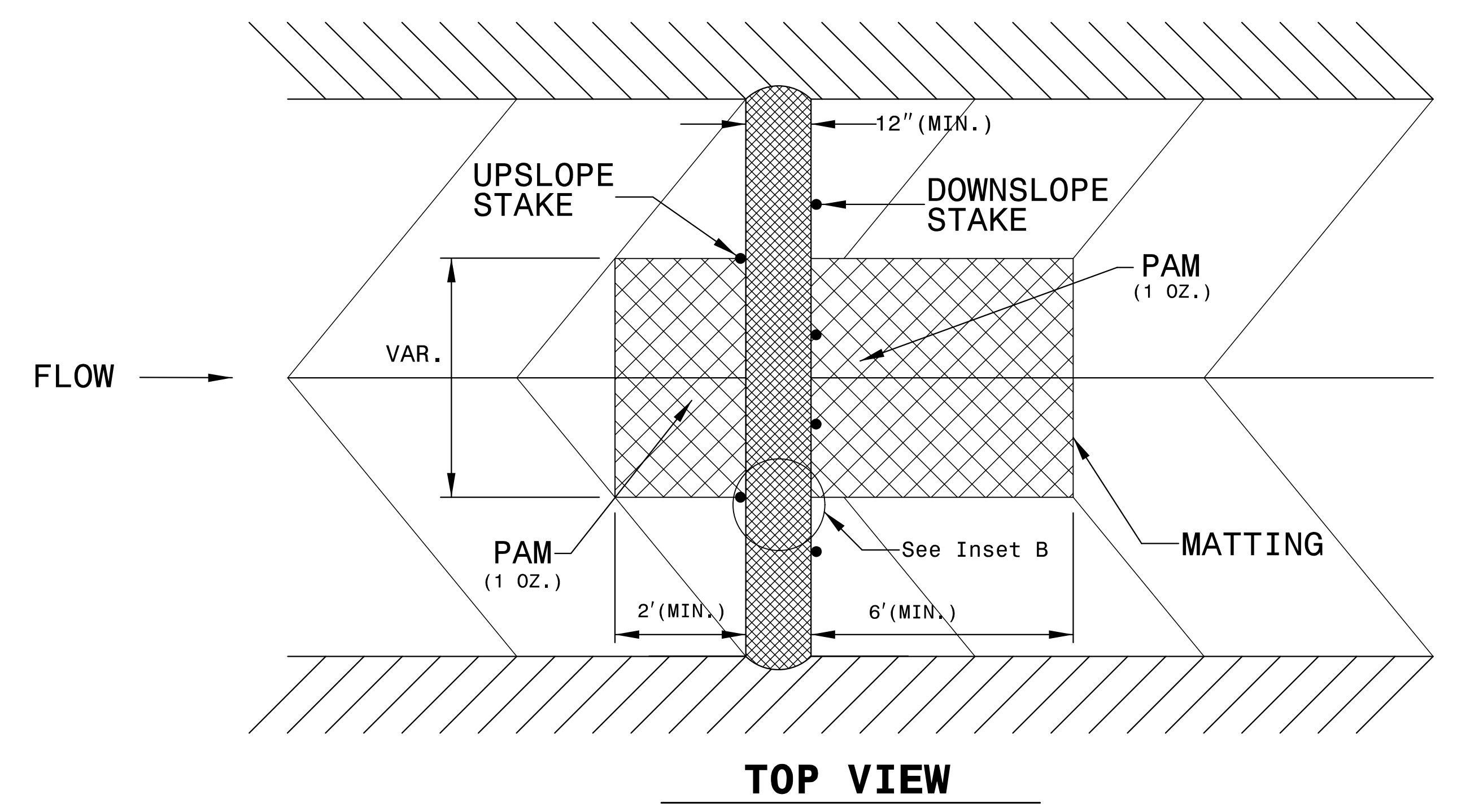
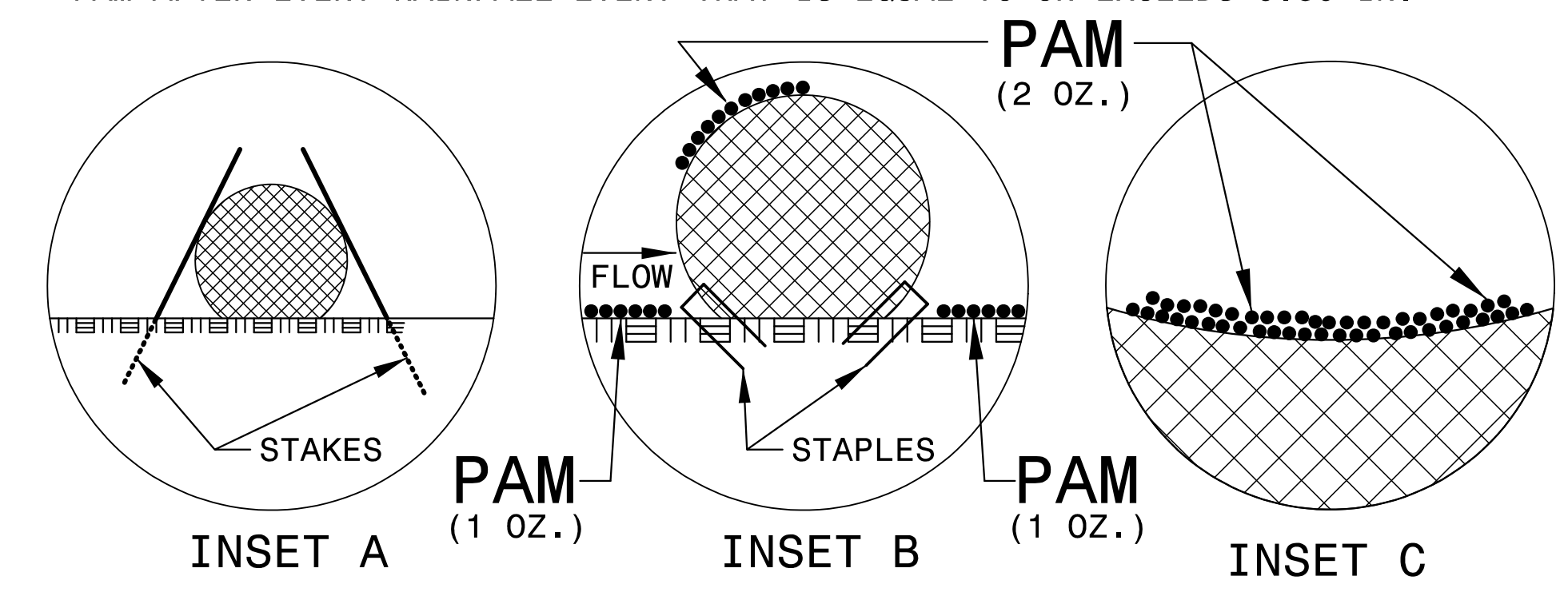
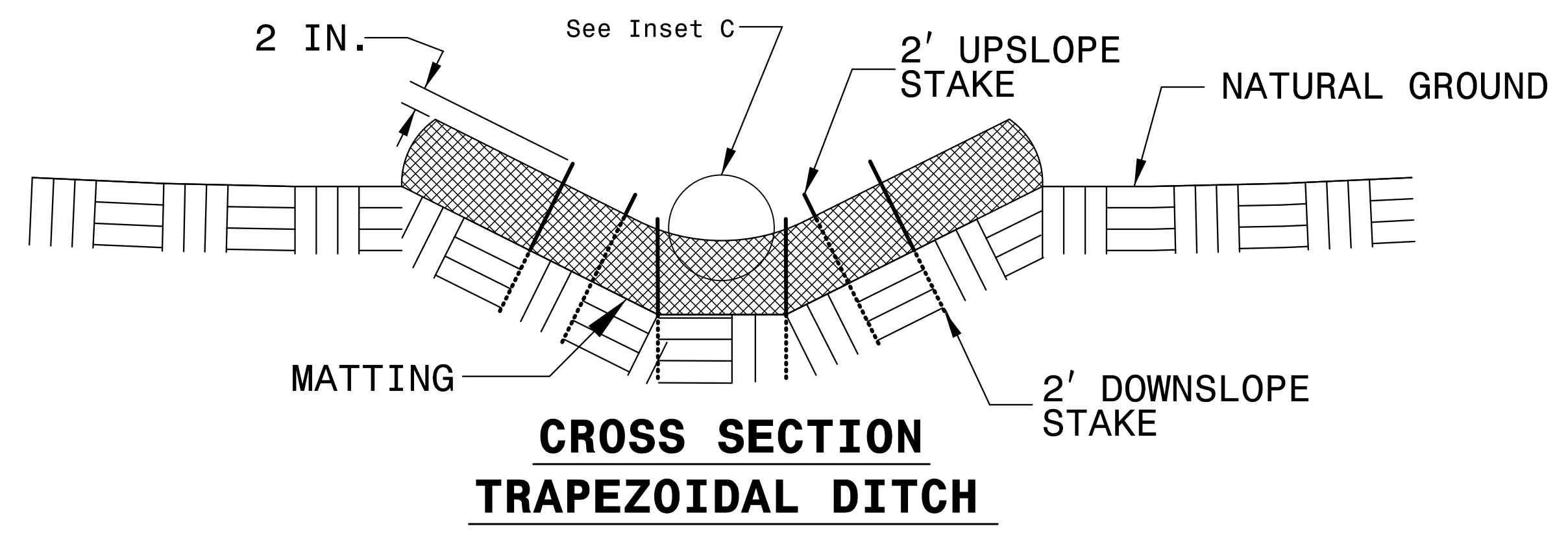
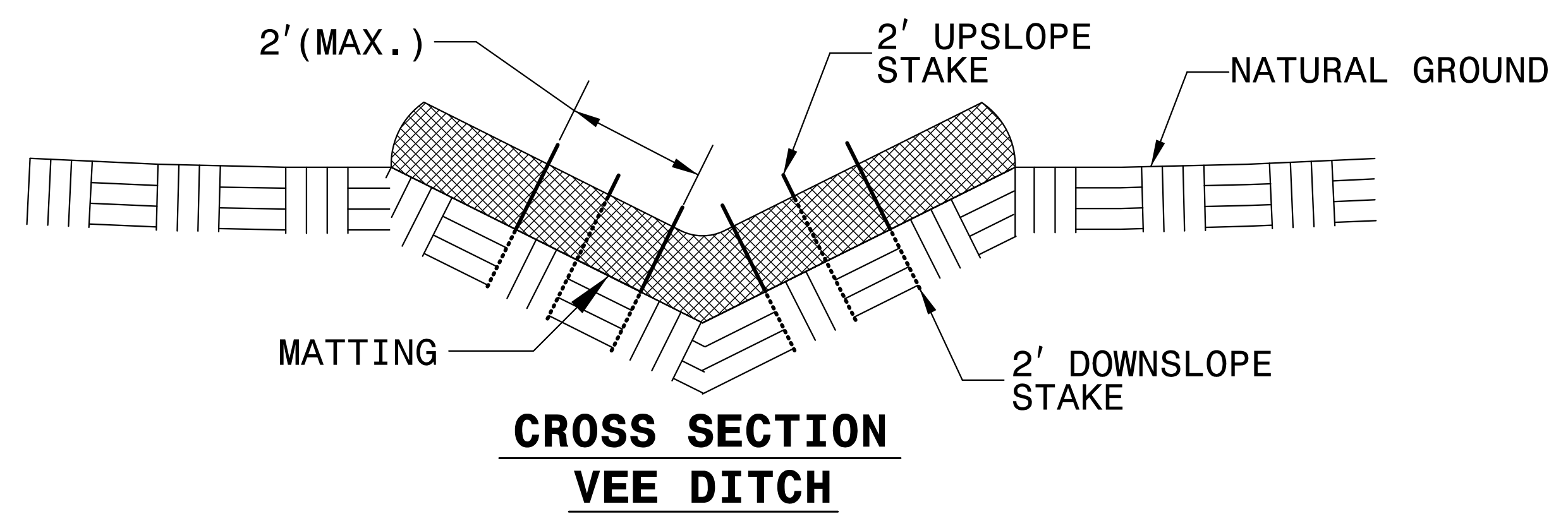
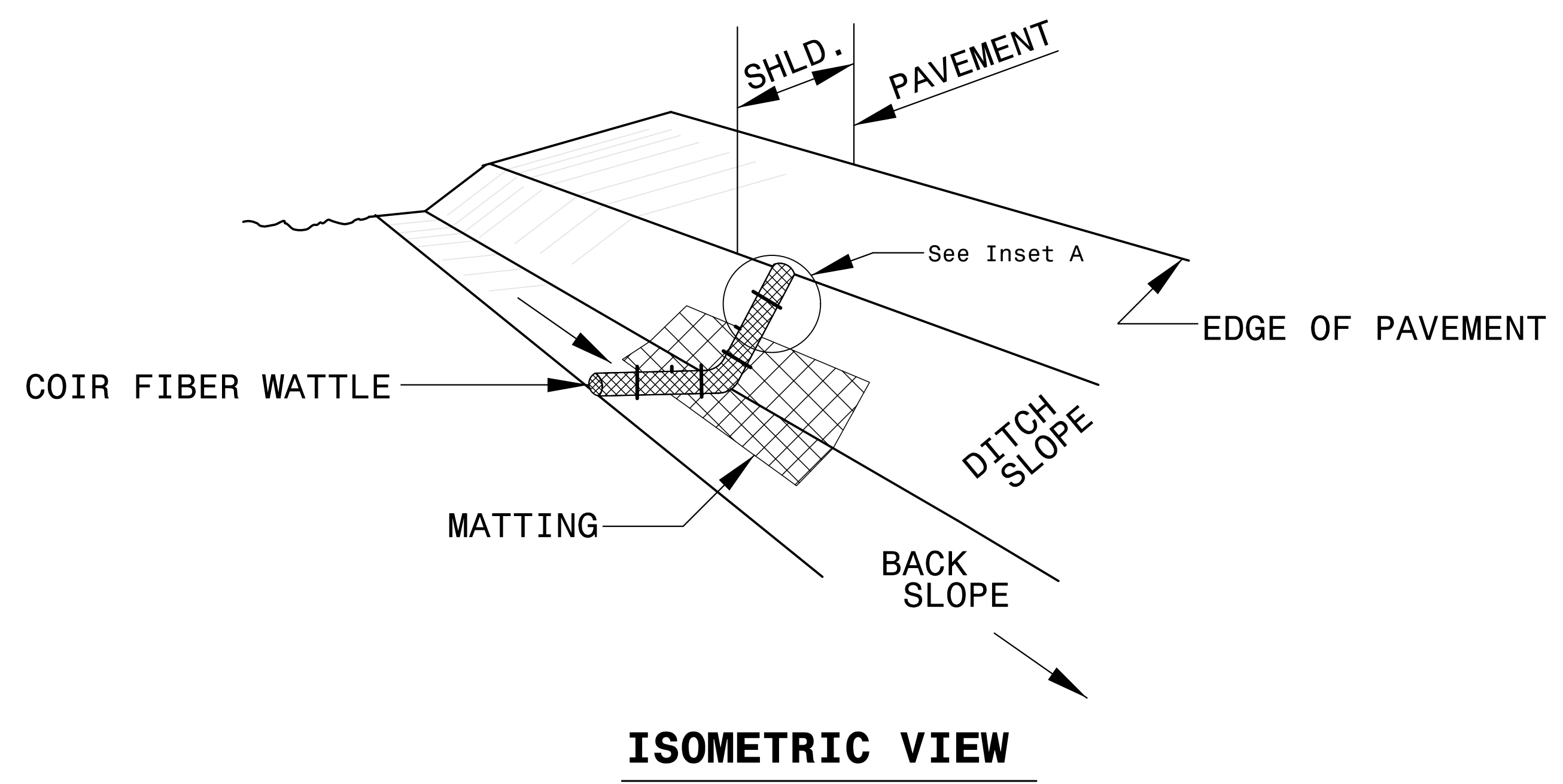
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

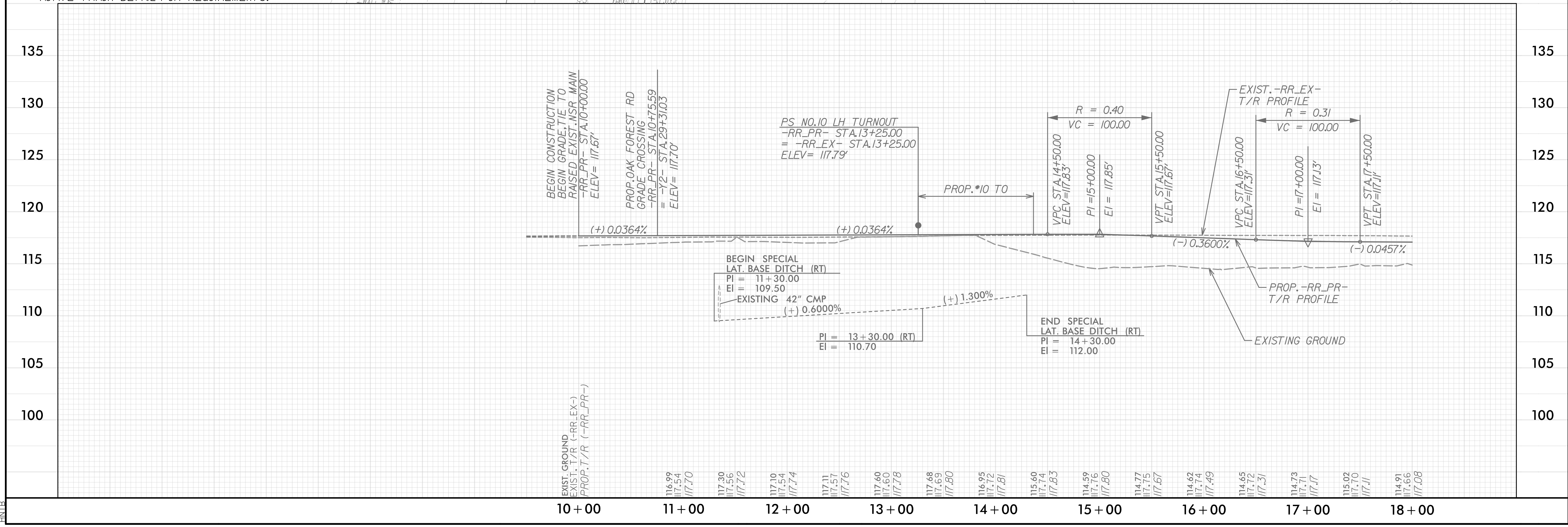
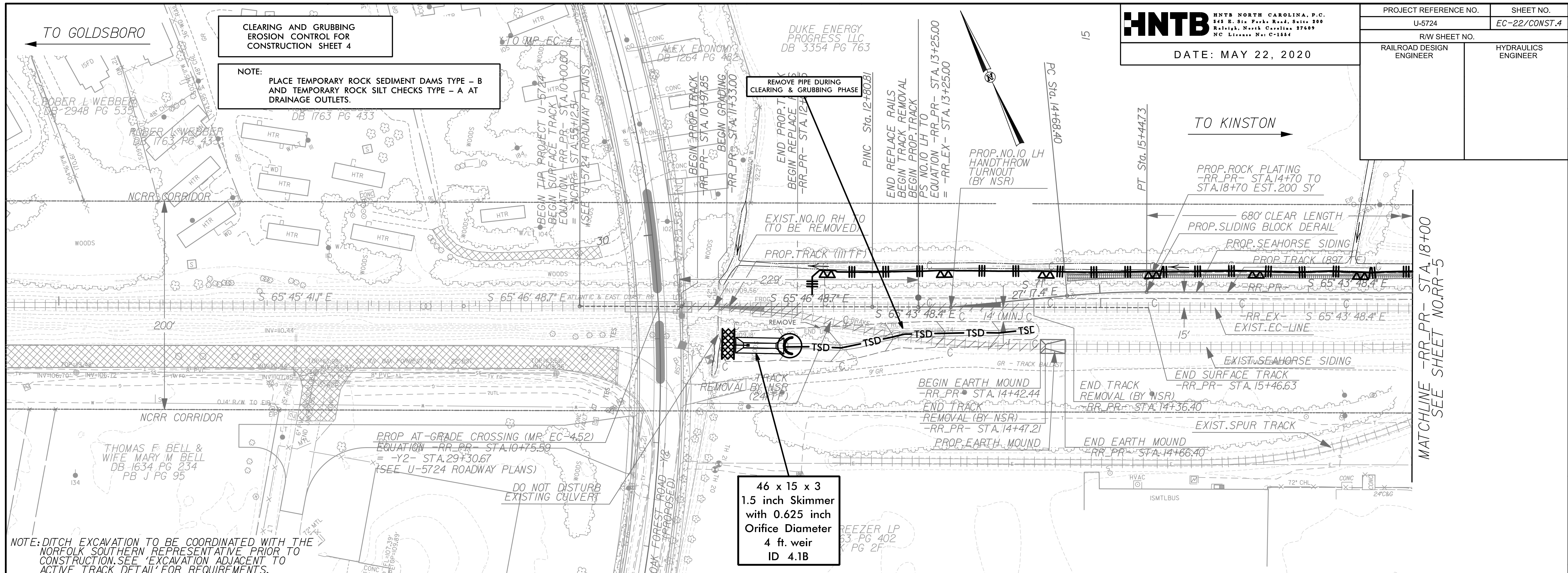
PROJECT REFERENCE NO. <i>U-5724</i>	SHEET NO. <i>EC-21</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

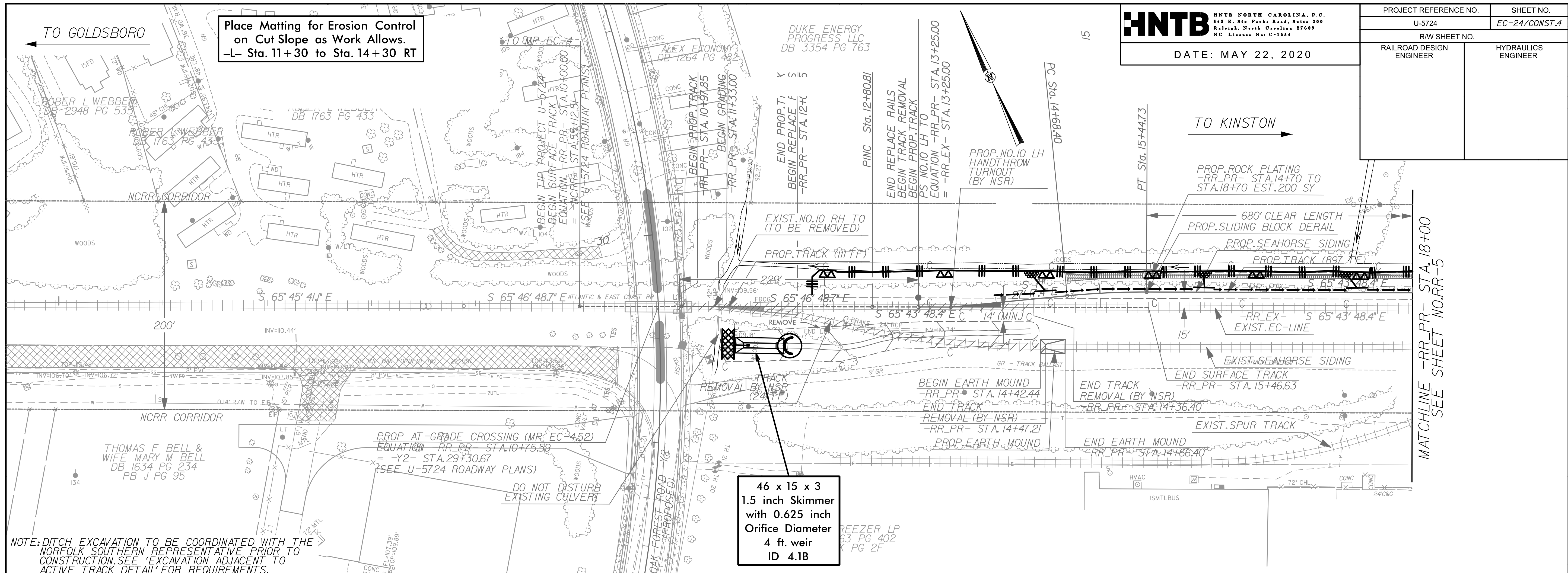
PROJECT REFERENCE NO.	SHEET NO.
U-5724	EC-22/CONST.4
RW SHEET NO.	
RAILROAD DESIGN ENGINEER	HYDRAULICS ENGINEER

DATE: MAY 22, 2020

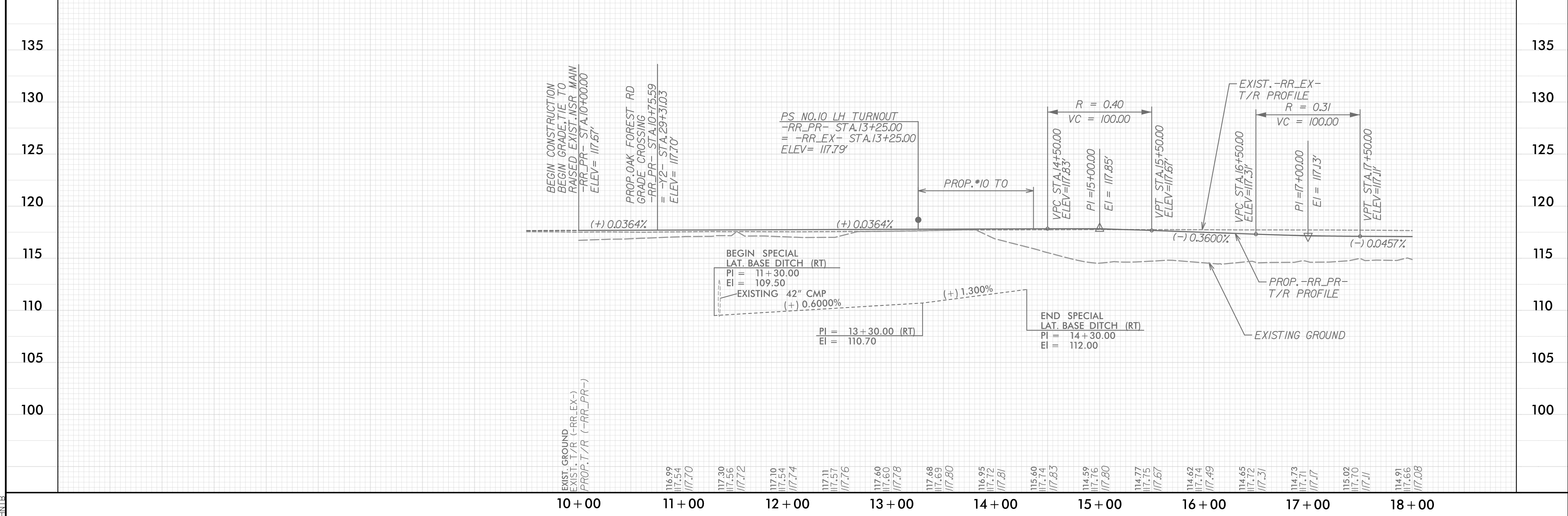


5/15/2020 U-5724-EC_psh_4.dgn

DATE: MAY 22, 2020



NOTE: DITCH EXCAVATION TO BE COORDINATED WITH THE NORFOLK SOUTHERN REPRESENTATIVE PRIOR TO CONSTRUCTION. SEE 'EXCAVATION ADJACENT TO ACTIVE TRACK DETAIL' FOR REQUIREMENTS.



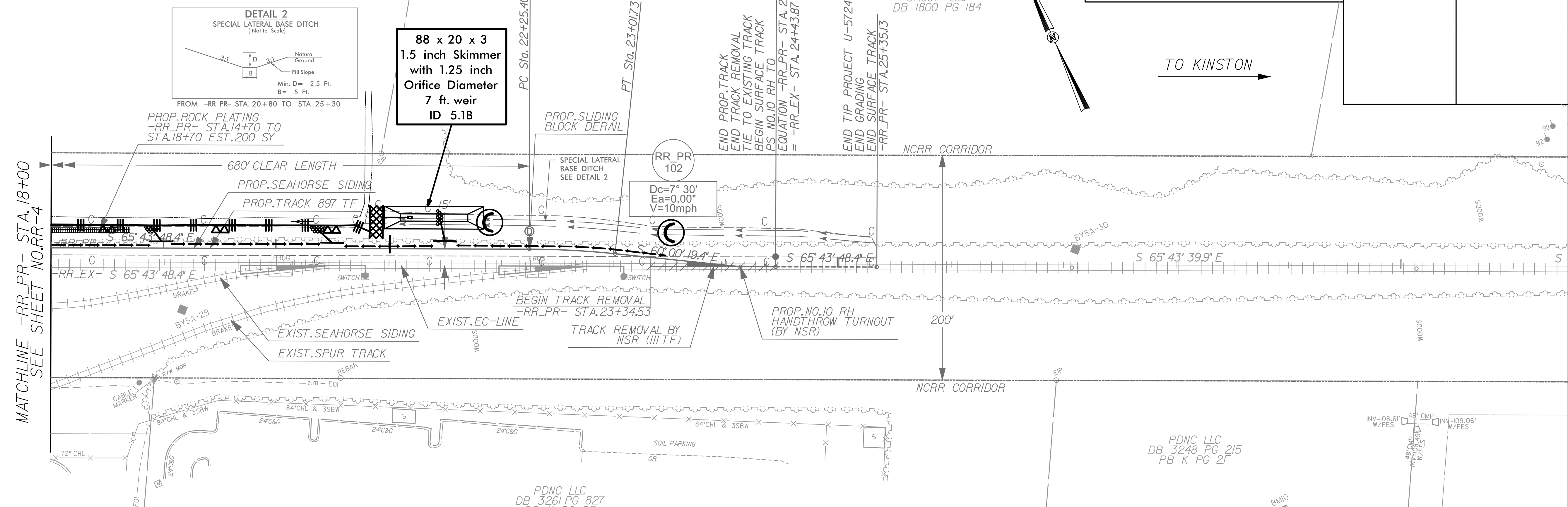
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TO GOLDSBORO

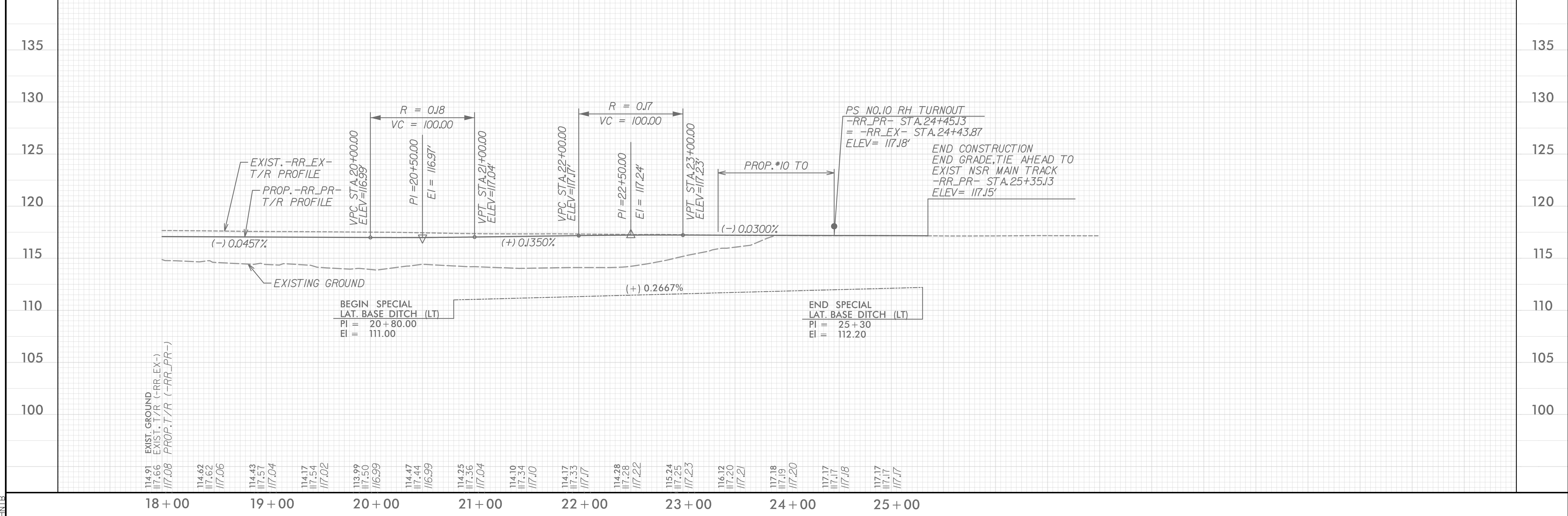
PROJECT REFERENCE NO.	SHEET NO.
U-5724	EC-25/CONST.5
RWY SHEET NO.	
RAILROAD DESIGN ENGINEER	HYDRAULICS ENGINEER

DATE: MAY 22, 2020

TO KINSTON



NOTE: DITCH EXCAVATION TO BE COORDINATED WITH THE NORFOLK SOUTHERN REPRESENTATIVE PRIOR TO CONSTRUCTION. SEE 'EXCAVATION ADJACENT TO ACTIVE TRACK DETAIL' FOR REQUIREMENTS.



5/15/2020 24-EC-ps-h.5.dgn
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