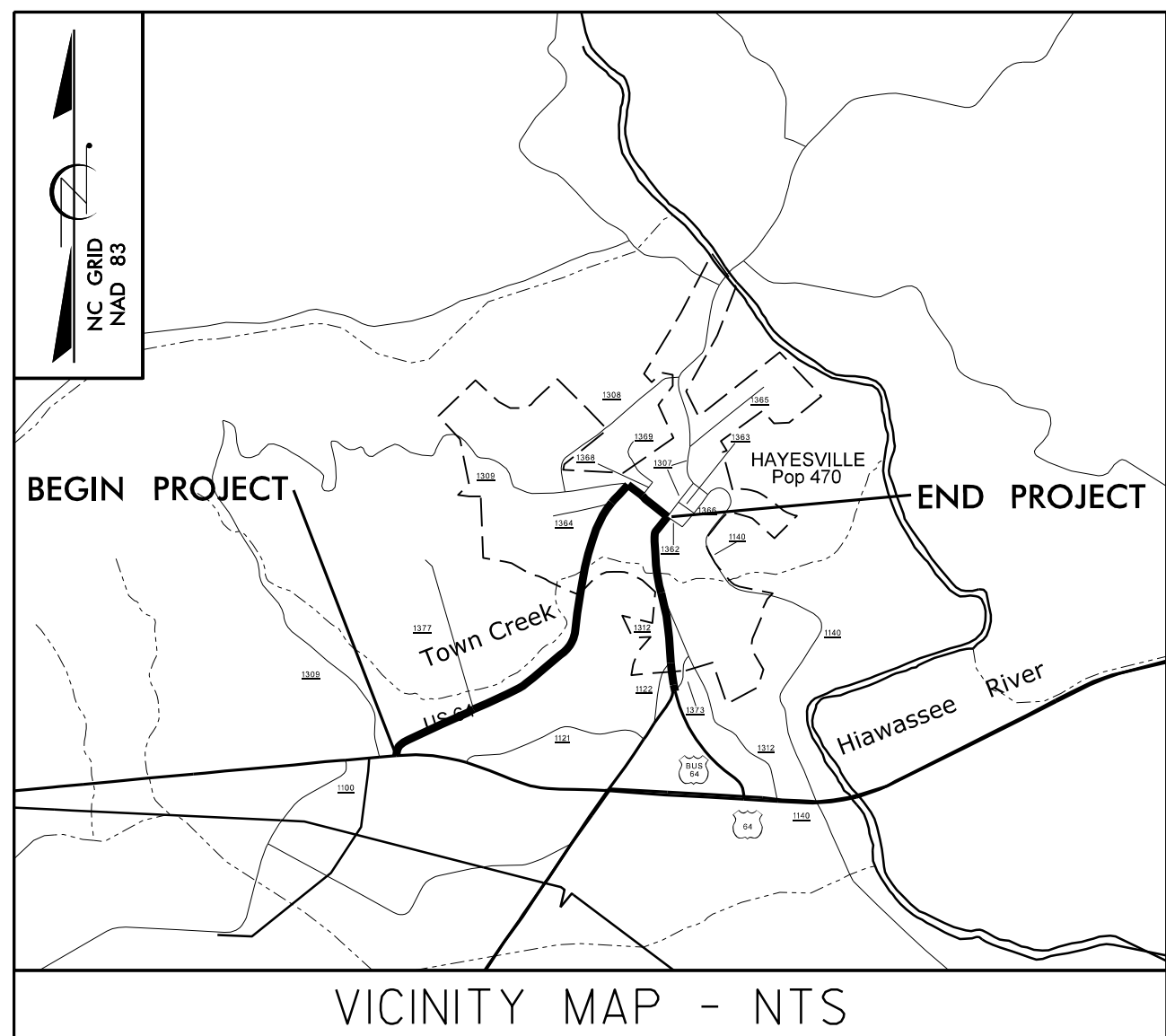


TIP PROJECT: R-5863



VICINITY MAP - NTS

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

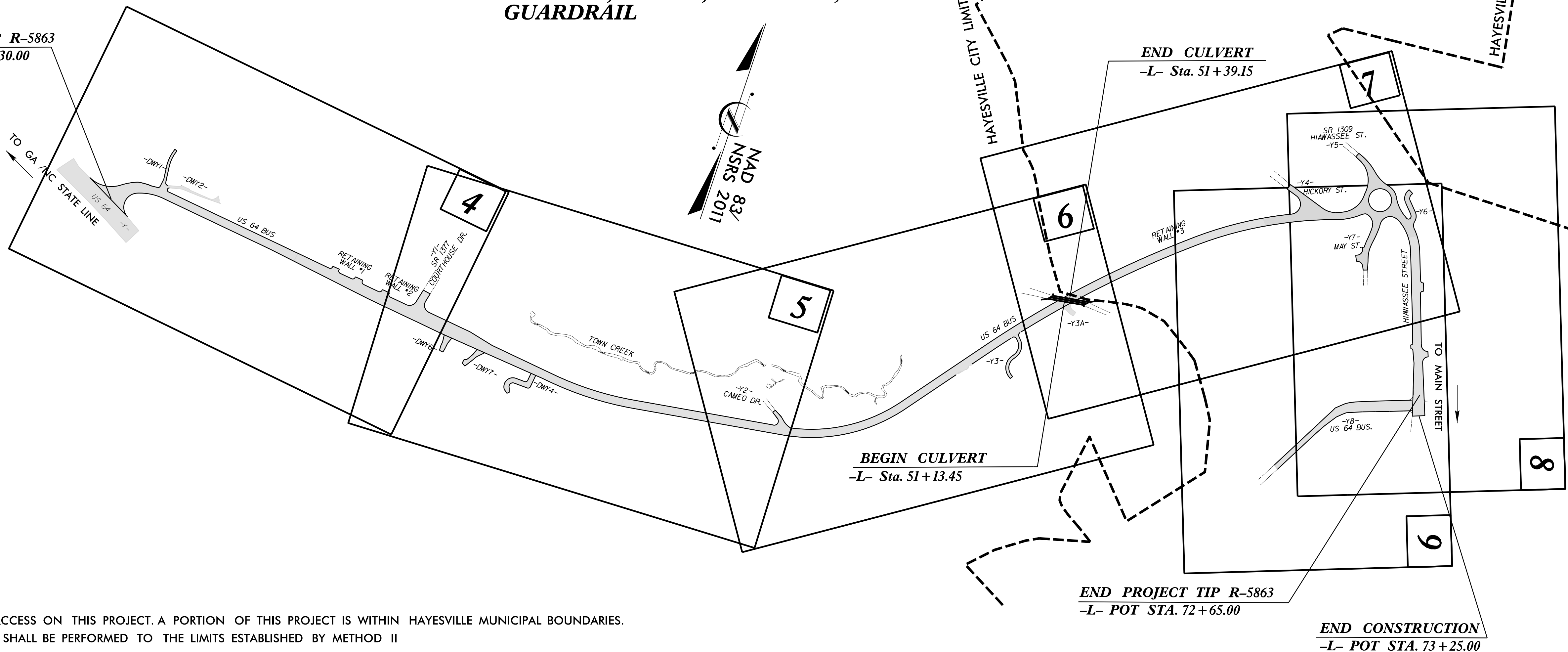
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CLAY COUNTY

LOCATION: US 64 BUSINESS FROM US 64
BYPASS TO MAIN STREET

TYPE OF WORK: WIDENING, SIDEWALK CONSTRUCTION,
GRADING, PAVING, DRAINAGE, AND
GUARDRAIL

BEGIN PROJECT TIP R-5863
-L- POT STA. 10+30.00



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. A PORTION OF THIS PROJECT IS WITHIN HAYESVILLE MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY
WITH THE REGULATIONS SET FORTH BY THE NCG 010000 GENERAL
STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION
OF ENERGY, MINERAL, AND LAND RESOURCES.



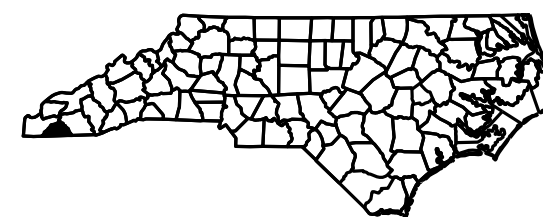
Prepared in the Office of:
WETHERILL ENGINEERING, INC.
1223 JONES FRANKLIN ROAD
RALEIGH, NC 27606

Designed by:
KEVIN B. ALFORD, PE 3531
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C.
Department of Transportation - Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5863	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47516.1.1	N/A	PE	
47516.2.1	N/A	RW & UTILITIES	
47516.3.1	N/A	CONST.	



HAYESVILLE CITY LIMITS

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

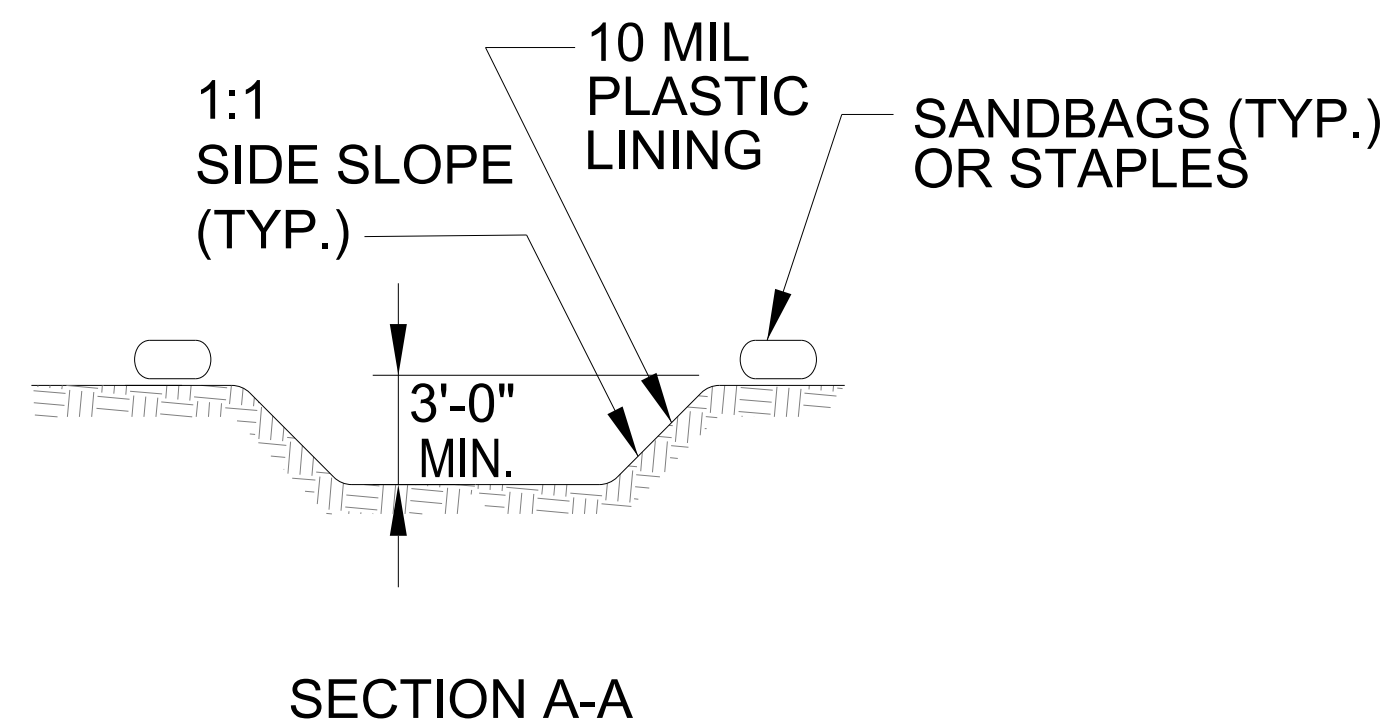
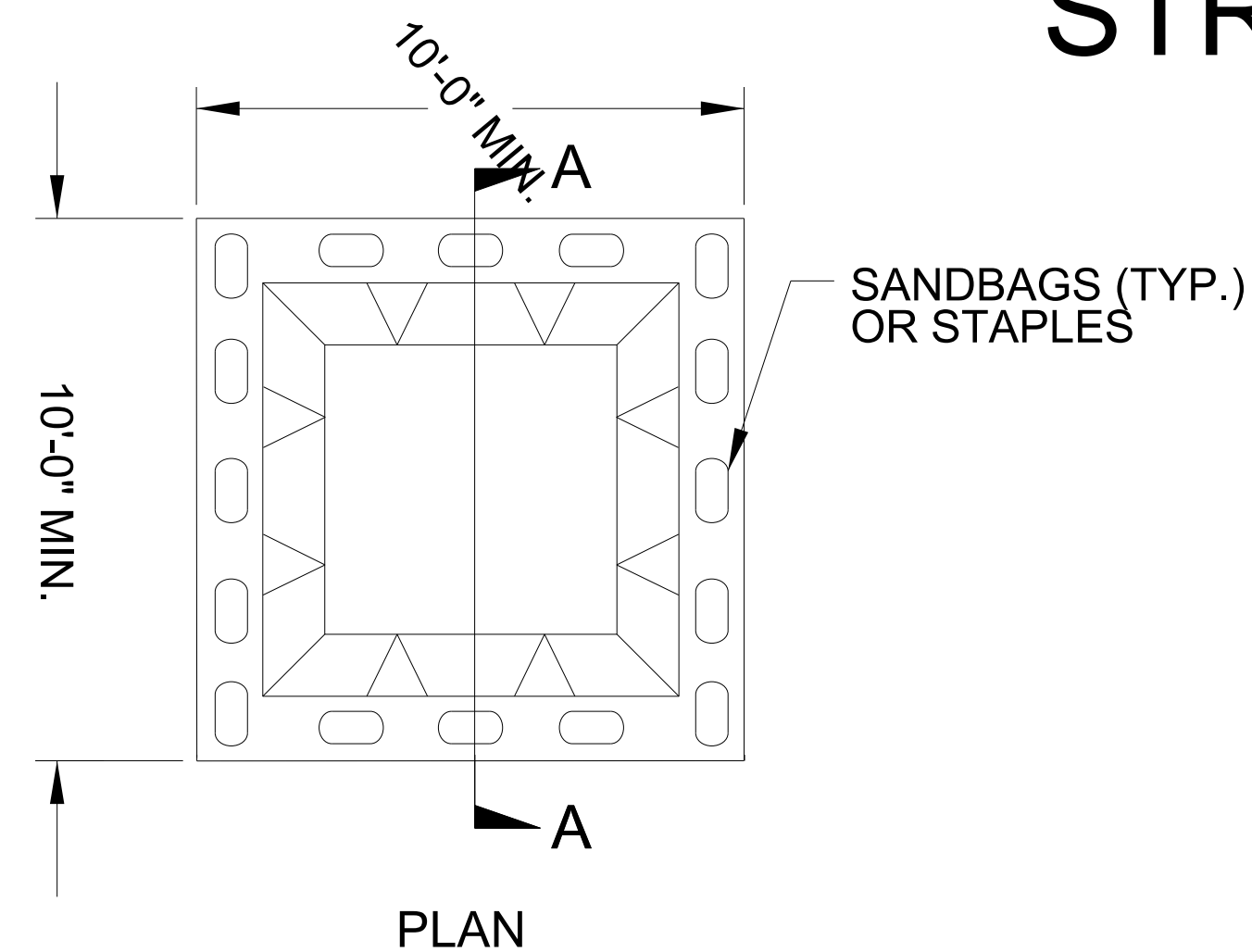
PROJECT REFERENCE NO.	SHEET NO.
R-5863	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

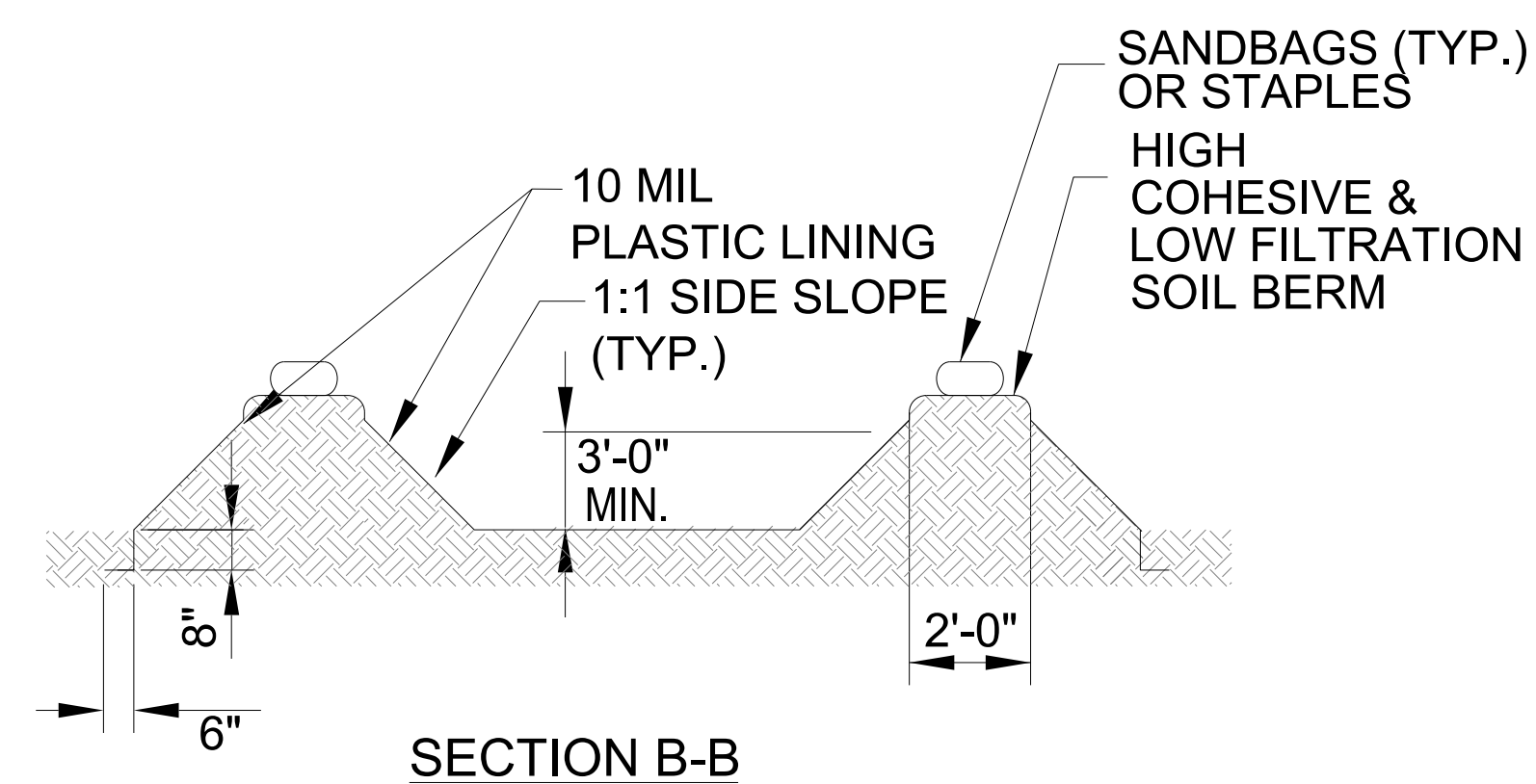
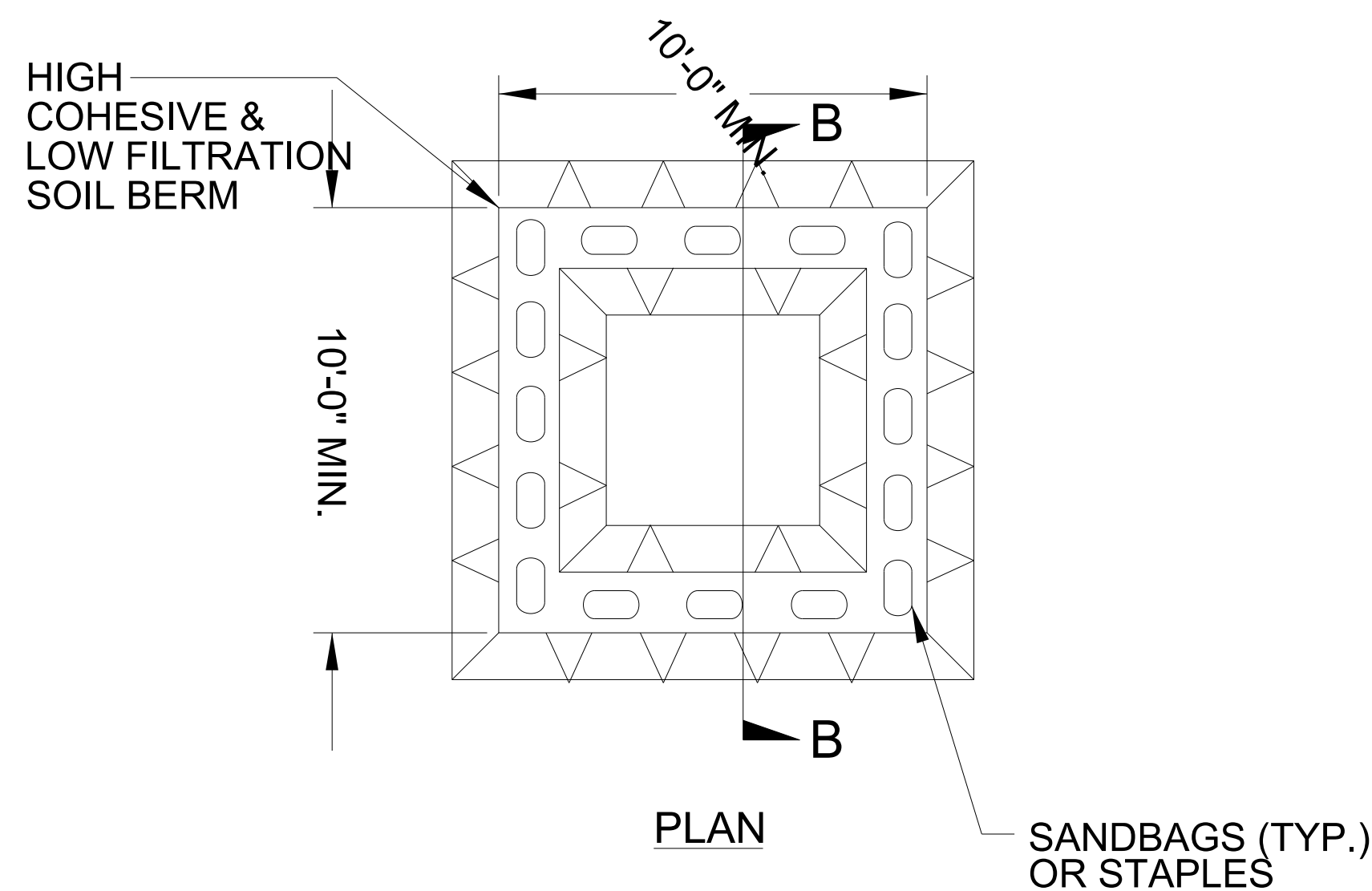
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO.	SHEET NO.
<i>R-5863</i>	<i>EC-2A</i>
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

<i>CONTROL (DITCHES)</i>	<i>MATTING FOR EE</i>
--------------------------	-----------------------

PROJECT REFERENCE NO.	SHEET NO.
<i>R-5863</i>	<i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DATE	FROM	TO	USE
12/1/2011	...	...	...

[illegible][illegible]

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	11+50	20+50	L.T.	2,501
5	-L-	24+00	35+50	L.T.	3,617
6	-L-	39+00	43+00	L.T.	1,164
6	-L-	44+00	46+00	L.T.	861
6	-L-	47+50	52+50	L.T.	1,441
4	-L-	17+00	18+50	R.T.	308
4	-L-	21+50	23+50	R.T.	810
5	-L-	27+50	28+00	R.T.	119
5	-L-	30+00	31+00	R.T.	252
5	-L-	34+50	38+00	R.T.	1,643
6	-L-	39+00	40+00	R.T.	238
6	-L-	41+50	46+00	R.T.	1,211
6	-L-	47+00	49+50	R.T.	1,045
6	-L-	51+00	52+00	R.T.	272
7	-L-	52+00	54+00	R.T.	611
7	-L-	55+00	56+00	R.T.	222
7	-L-	57+00	58+50	R.T.	389
7	-L-	60+00	62+00	R.T.	444
8	-L-	67+00	68+00	R.T.	139
			SUBTOTAL		17,287
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					17,713
				TOTAL	35,000
				SAY	35,000

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>R-5863</i>	<i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION SUMMARY SHEET

EXCELSIOR MATTING FOR EROSION CONTROL (DITCHES)

COIR FIBER MATTING

[illegible][illegible]

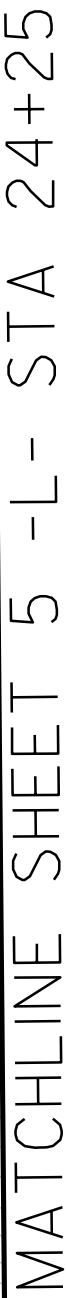
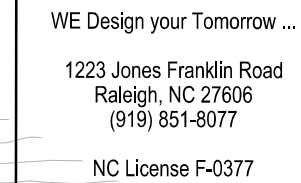
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.		SHEET NO.	
R-5863		EC-3B	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

1	BILLY JOE HODGSON DB 294 PG 239
2	JUDY BIVENS DB 265 PG 268
3	DAVID ANDERSON DB 265 PG 267



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

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

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

18 HAYESVILLE MARKETING
AND STAFFING, LLC
DB 437 PG 93
19 DOROTHY MOORE, widow
DB 53 PG 67

RICHARD E. OSBORN
DB 297 PG 250

RANDALL MOORE and
HOLLY ROLLINS
DB 433 PG 24

KAREN VOLK
DB 250 PG 124

EDWIN B. GARRISON
DB 332 PG 104
DB 255 PG 279

CLAY COUNTY
DB 202 PG 117
(WELL SITE EASE.)

MARK HARRELL
DB 238 PG 19

FELICIA R. MULL
DB 437 PG 93

MALISSA REEL
DB 371 PG 84

SPECIAL CUT
DITCH
(SEE DETAIL O)

60 x 25 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
5 ft. weir
ID 6.2

30 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 6.3

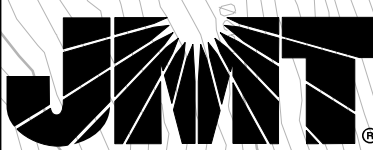
25 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 6.4

22 x 10 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 6.1

PROJECT REFERENCE NO.	SHEET NO.
R-5863	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SEE SHEET 6A FOR R/W INFORMATION

FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y2- SEE SHEET 14
FOR PROFILE OF LINE -Y3- SEE SHEET 12
FOR PROFILE OF LINE -Y3A- SEE SHEET 14
SEE SHEET C-1 THROUGH C-8 FOR CULVERT PLANS



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1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. CONSTRUCT IMPERVIOUS DIKES AND INSTALL 36" FLEXIBLE TEMPORARY PIPE, DIVERTING FLOW.
3. REMOVE EXISTING CULVERT
4. CONSTRUCT PROPOSED CULVERT BARRELS, WING WALLS AND UPSTREAM AND DOWNSTREAM CHANNEL IMPROVEMENTS
5. REMOVE IMPERVIOUS DIKES AND TEMPORARY PIPE, ALLOWING NORMAL FLOW THROUGH THE CULVERT.
6. BACKFILL AND COMPLETE ROADWAY CONSTRUCTION

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

THOMAS A. PENLAND
DB 289 PG 205

DORA BELCHER
DB 226 PG 24

KATHY HENSON
DB 305 PG 105

KATHY HENSON
DB 305 PG 105

KATHY HENSON
DB 266 PG 154

ROSELYN C. HUNT
DB 421 PG 144

JAMES BYERS
ESTATE
DB 64 PG 292

PROJECT REFERENCE NO.		SHEET NO.
R-5863		EC-7/CONST.7
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

MATCHLINE SHEET 6 -L- STA 52+10

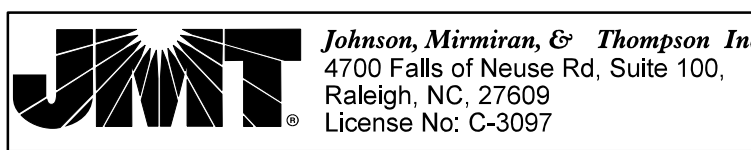
MATCHLINE SHEET 8 -L- STA 62+50

FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y4- SEE SHEET 12

NOTE:SEE SHEET 7A FOR R/W INFORMATION

22 x 11 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 7.1

22 x 11 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 7.2



51499

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

36 THOMAS N. WHITE
DB 362 PG 91

45 DEERHILL
HOLDING CO., LLC
DB 399 PG 74
DB 412 PG 5

40 HAYESVILLE FIRST
UNITED
METHODIST CHURCH
DB 351 PG 80

37 CLAY COUNTY FIRE
& RESCUE SQUAD, INC.
DB 119 PG 109

39 KATHY HENSON
DB 266 PG 155

51 JAMES V. PARKER, JR., ET AL
DB 310 PG 236

47 TUSQUITTEE
VALLEY, LLC
DB 373 PG 223

42 TRUETT MEMORIAL
BAPTIST CHURCH
DB 46 PG 30
DB 185 PG 142

43 MARGARET C.
TIGER, ET AL,
TRUSTEE
DB 232 PG 68

44 B & T SUPERMARKET, INC.
DB 50 PG 350

45 CHARLENE H. COOK, ET AL
DB 282 PG 133

46 CLAY COUNTY
DB 218 PG 121

TOWN OF HAYESVILLE, NORTH CAROLINA
DB 408 PG 51

41 TRUETT MEMORIAL
BAPTIST CHURCH
DB 182 PG 203

35 JEFFREY E. HORRSTADT
DB 256 PG 257
DB 256 PG 258

40 HAYESVILLE FIRST UNITED
METHODIST CHURCH
DB 351 PG 80

40 HAYESVILLE FIRST UNITED
METHODIST CHURCH
DB 351 PG 80

48A CLAY FARMERS EXCHANGE
AND BUILDERS SUPPLY, INC.
DB 339 PG 244
DB 399 PG 214

46 HAYESVILLE FIRST UNITED
METHODIST CHURCH
DB 351 PG 80

47 HAYESVILLE FIRST UNITED
METHODIST CHURCH
DB 351 PG 80

MATCHLINE SHEET 7 -L- STA 62+50

MATCHLINE SHEET 9 -Y8- Sta. 12+00.00

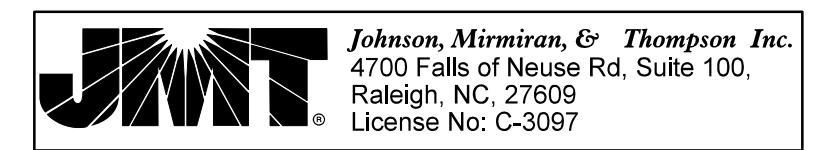


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USER: JMT

PROJECT REFERENCE NO.	SHEET NO.
R-5863	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



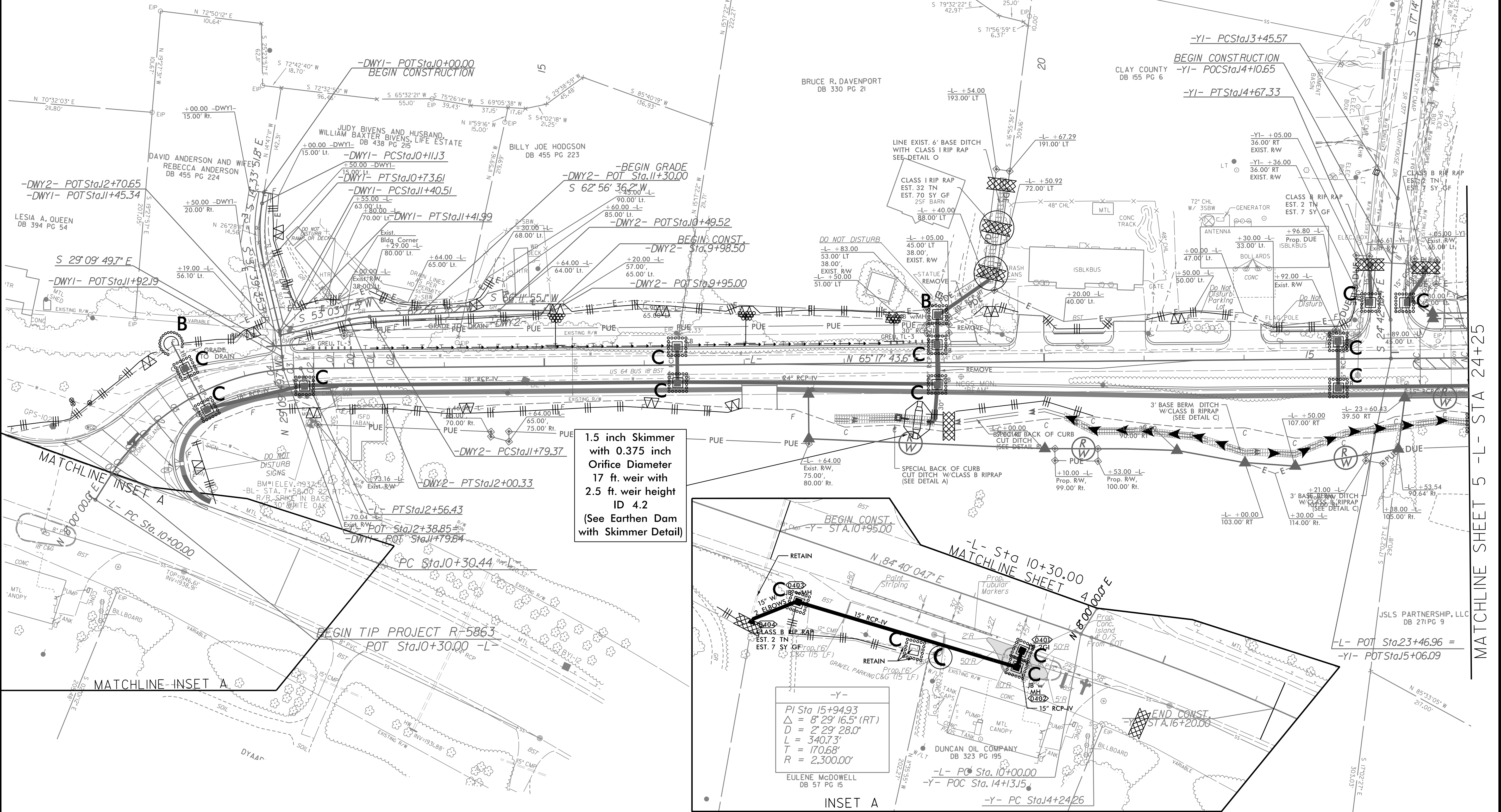
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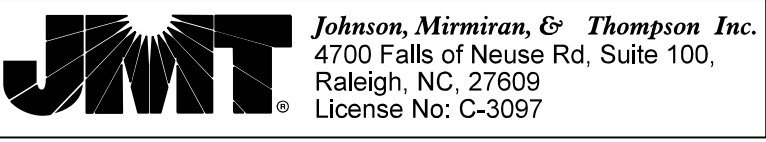
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Raleigh, NC, 27609
License No: C-3097

JMT
Johnson, Mirmiran, & Thompson Inc.
 4700 Falls of Neuse Rd, Suite 100,
 Raleigh, NC 27609
 License No: C-3097

- | | |
|---|------------------------------------|
| 1 | BILLY JOE HODGSON
DB 294 PG 239 |
| 2 | JUDY BIVENS
DB 265 PG 268 |
| 3 | DAVID ANDERSON
DB 265 PG 267 |



MATCHLINE SHEET 5 -L- STA 24+25

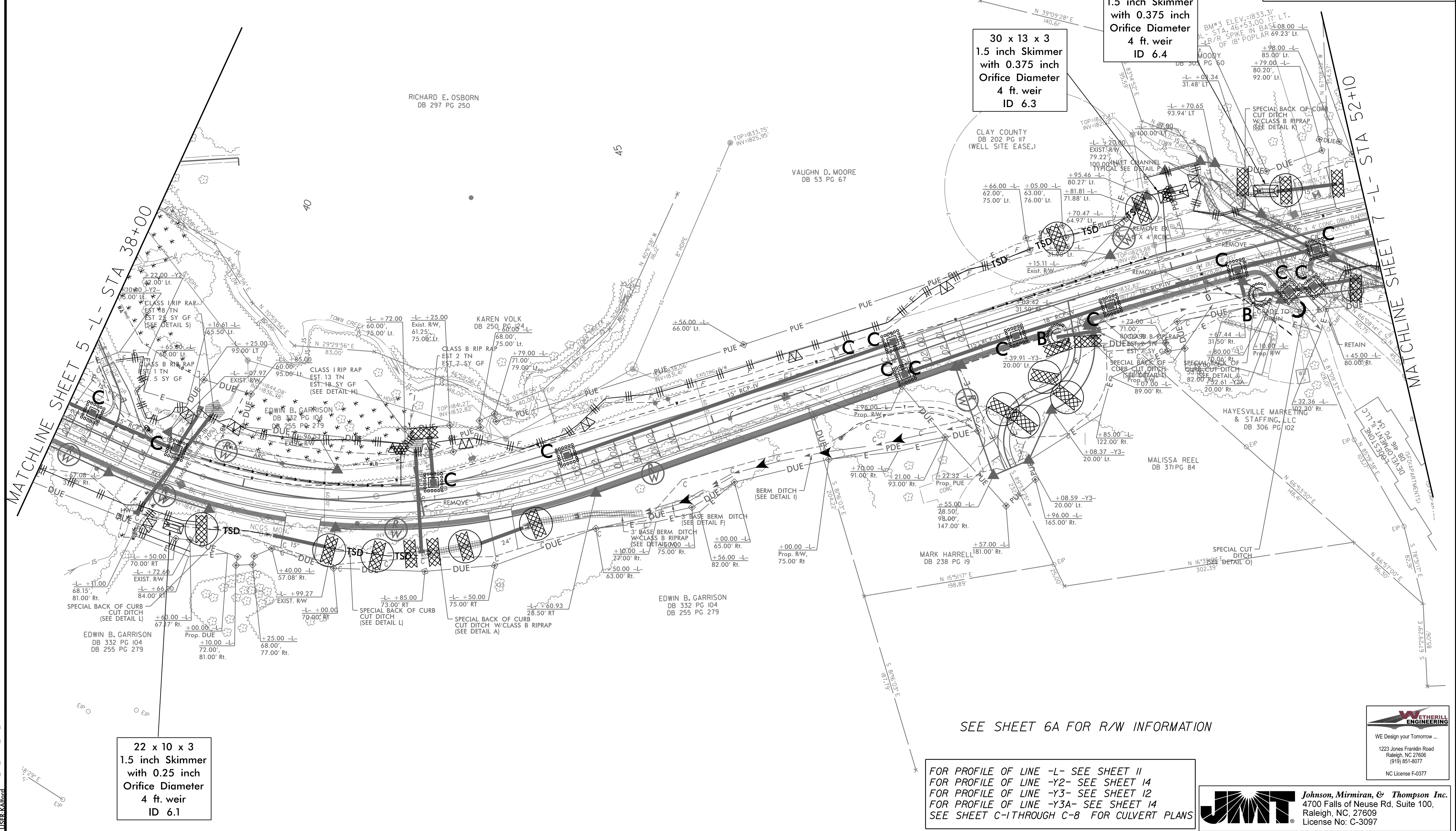


51499
5302025
5302025-5863_EC_FINAL_p06.dgn
USER:KALM

Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.

For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.

PROJECT REFERENCE NO.		SHEET NO.
R-5863		EC-12/CONST.6
R/W SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



30 x 13 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 6.3

25 x 12 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 6.4

22 x 10 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 6.1

FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y2- SEE SHEET 14
FOR PROFILE OF LINE -Y3- SEE SHEET 12
FOR PROFILE OF LINE -Y3A- SEE SHEET 14
SEE SHEET C-1 THROUGH C-8 FOR CULVERT PLANS

SEE SHEET 6A FOR R/W INFORMATION

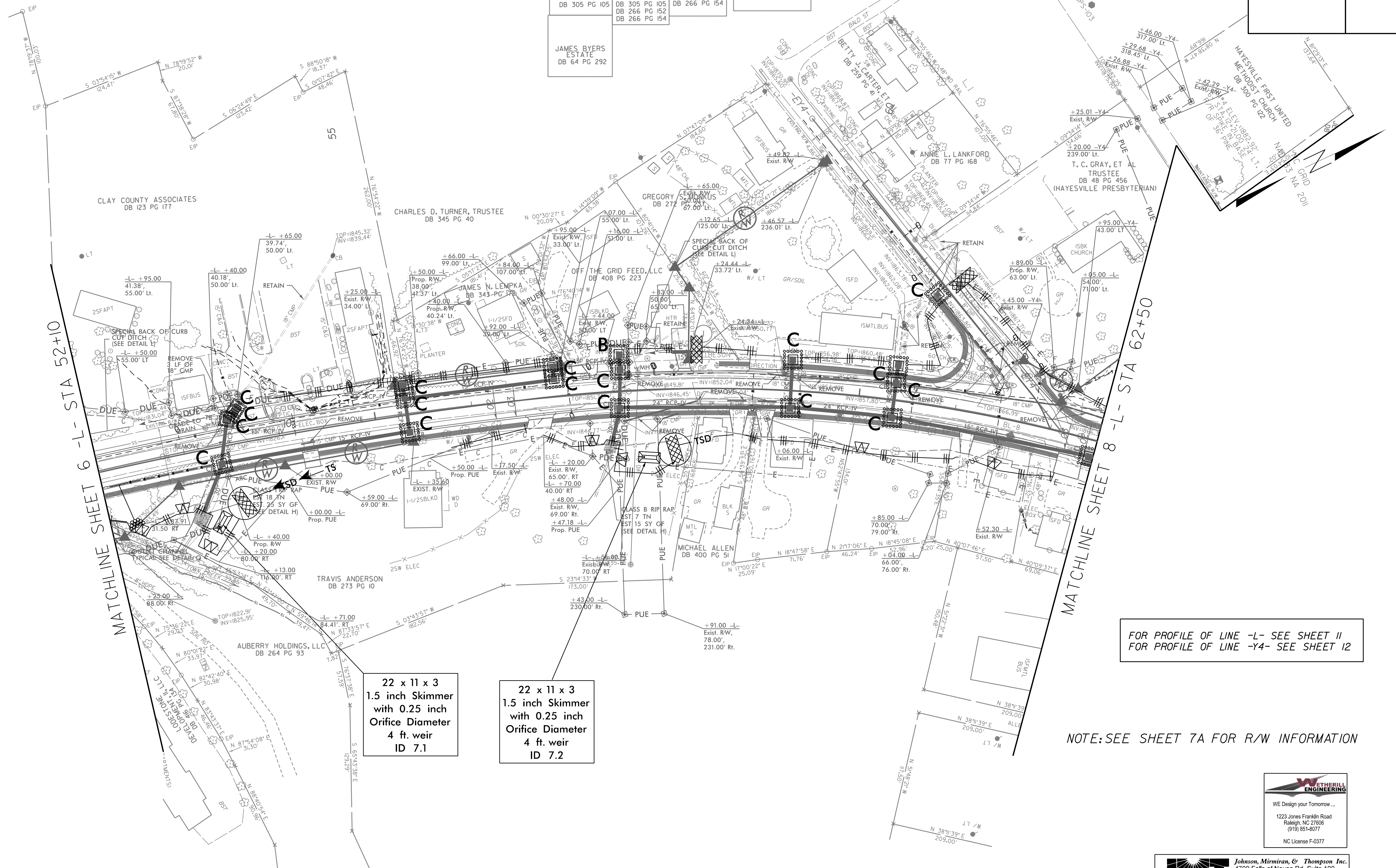


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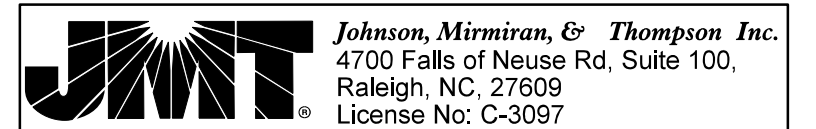
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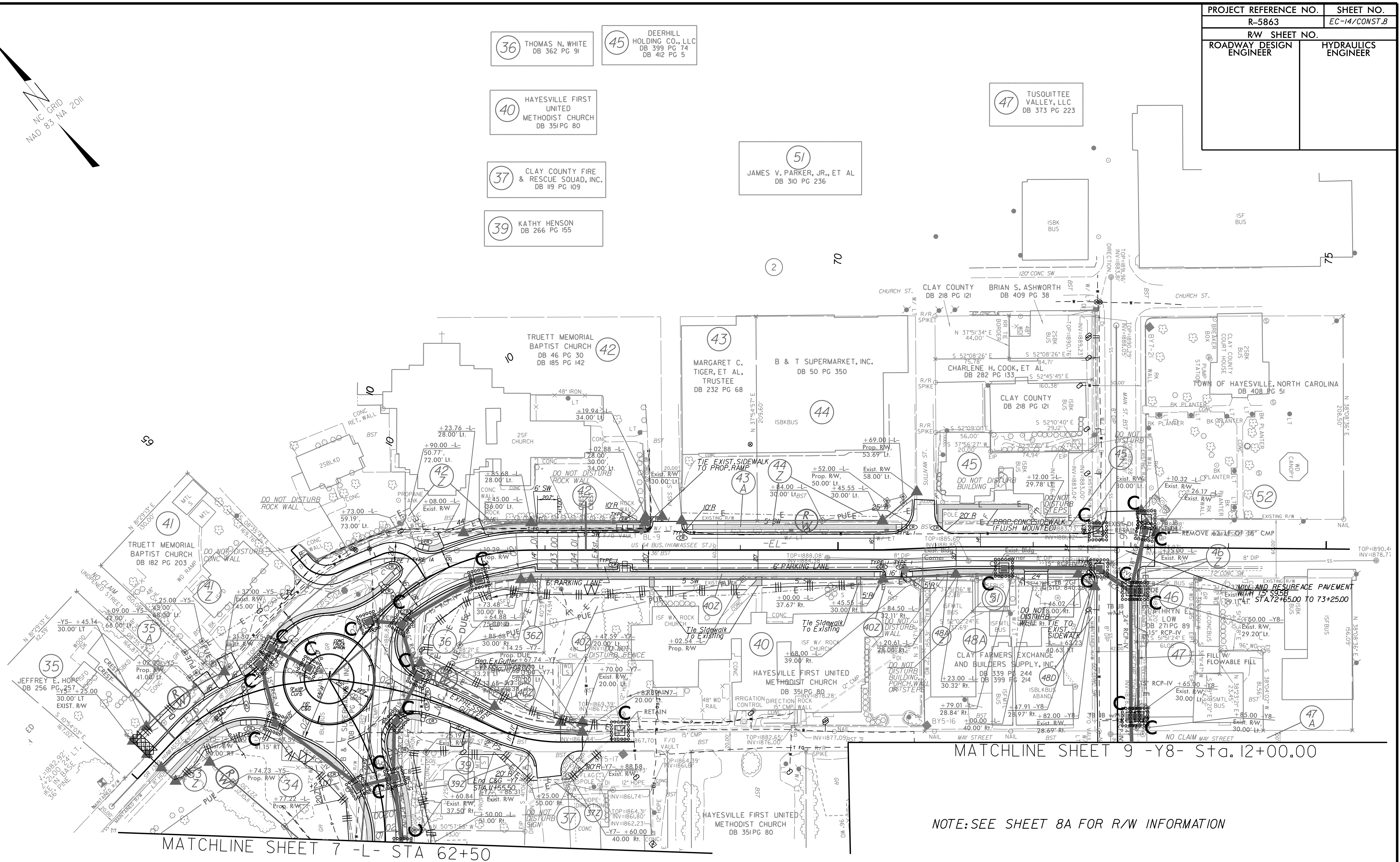
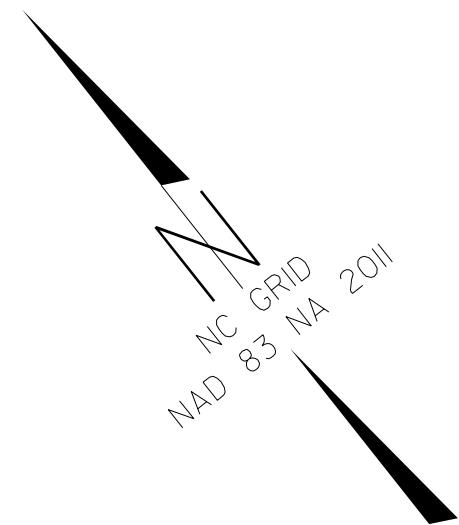
For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.



FOR PROFILE OF LINE -L- SEE SHEET 11
FOR PROFILE OF LINE -Y4- SEE SHEET 12

NOTE: SEE SHEET 7A FOR R/W INFORMATION

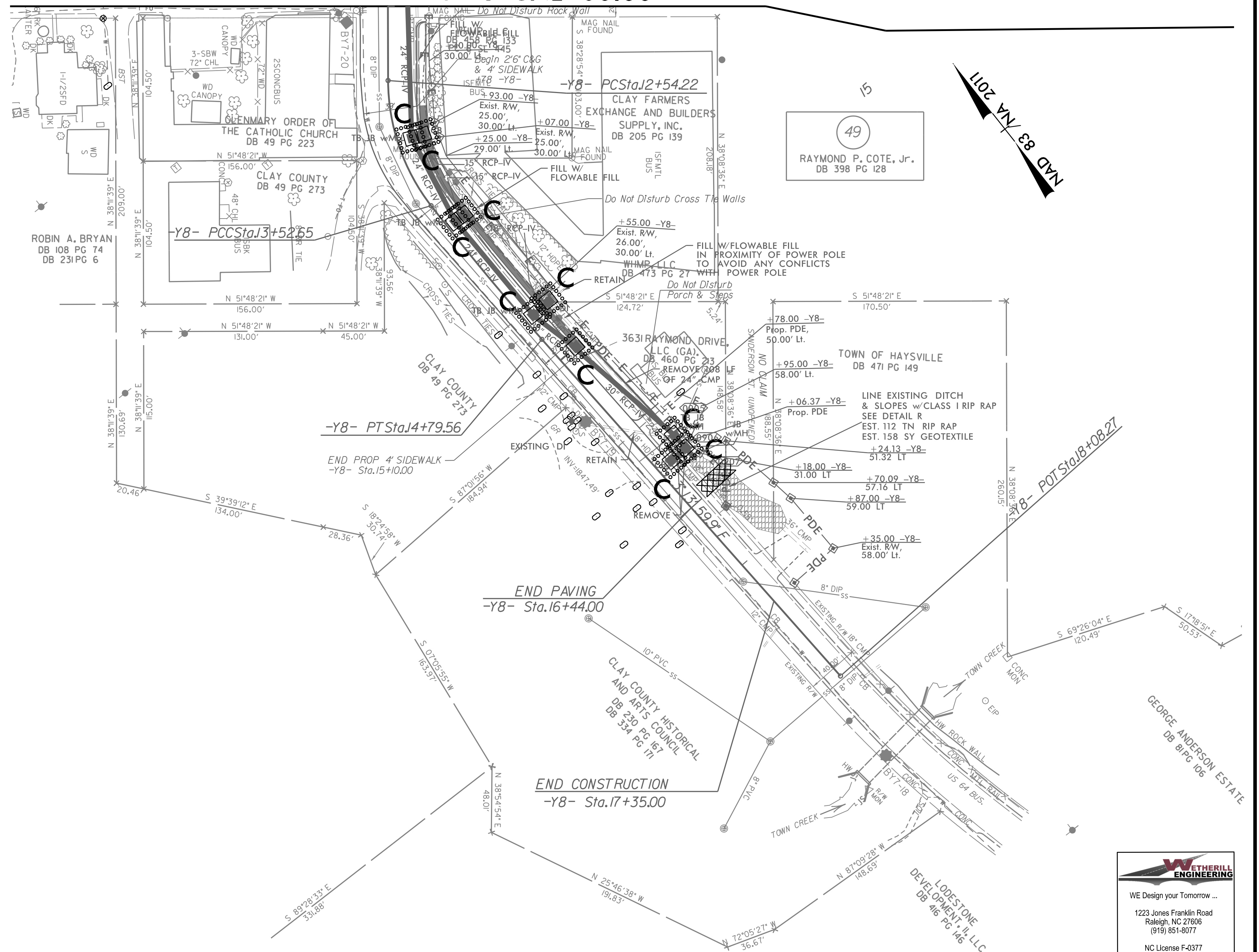




FOR PROFILE OF LINE -L- SEE SHEET 12
FOR PROFILE OF LINE -Y5- SEE SHEET 13
FOR PROFILE OF LINE -Y6- SEE SHEET 13
FOR PROFILE OF LINE -Y7- SEE SHEET 13
FOR PROFILE OF -RAB- SEE SHEET 13
FOR ROUNDABOUT DETAIL SEE SHEET 2B-1

PROJECT REFERENCE NO.	SHEET NO.
R-5863	EC-15/CONST.9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE SHEET 8 -Y8- Sta. 12+00.00



NOTE: SEE SHEET 9A FOR R/W INFORMATION

