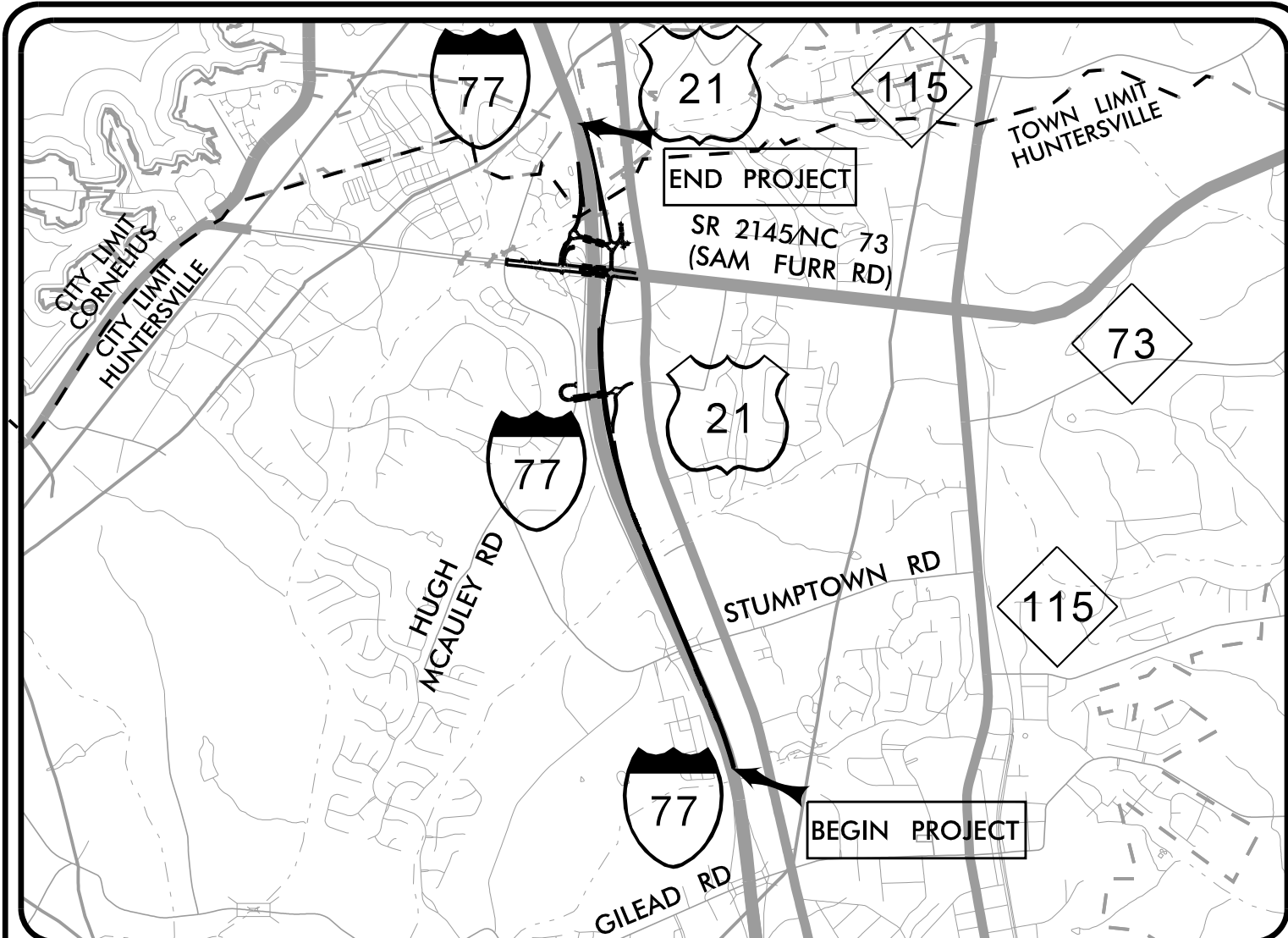


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY
PROJECT: I-5715
SHEET NO. EC-1
TOTAL SHEETS 1

CONTRACT: C205223 TIP PROJECT: I-5715

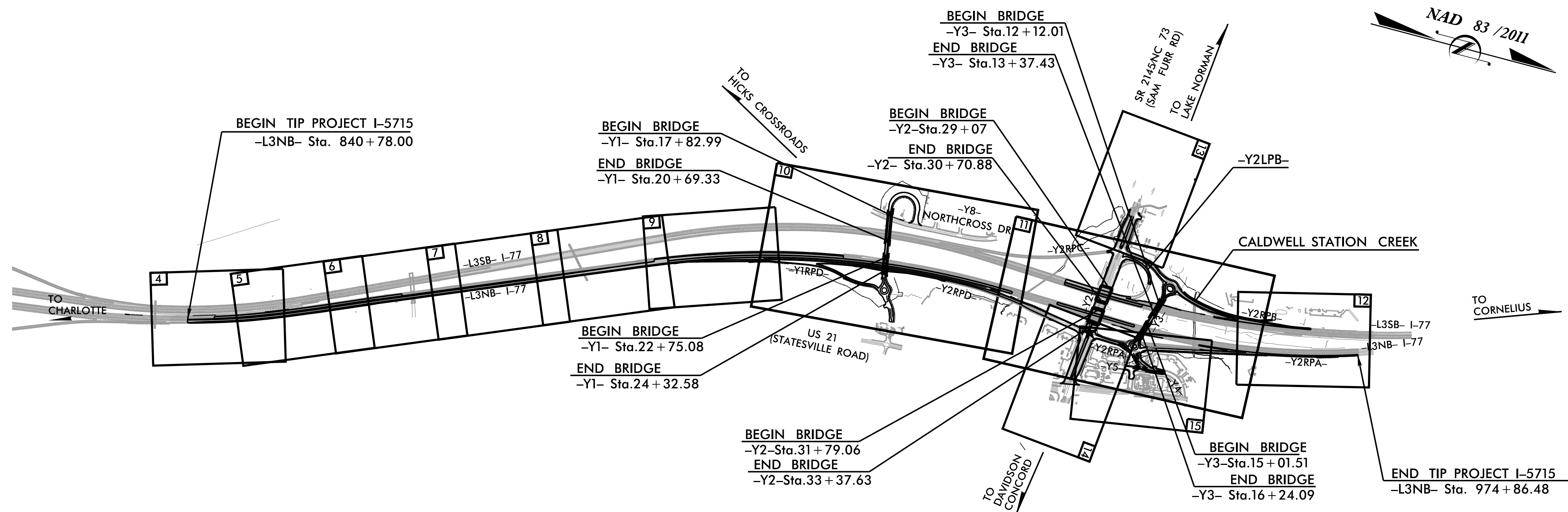


VICINITY MAP
NOT TO SCALE

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

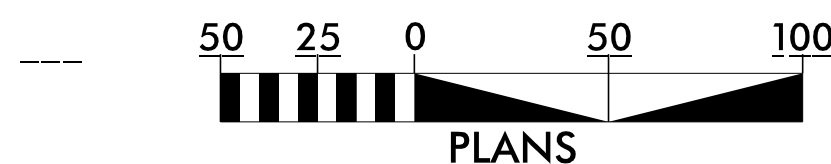
LOCATION: I-77 AND THE NC 73 INTERCHANGE UPGRADE EXISTING INTERCHANGE TO SPLIT DIAMOND CONFIGURATION

TYPE OF WORK: DRAINAGE, GRADING, PAVING, SIGNALS, WIDENING, SIGNING, CULVERTS, RETAINING WALLS, AND STRUCTURES



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

GRAPHIC SCALE



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

Kimley»Horn

NC LICENSE #F-0102
200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202
PHONE: (704) 335-0131

Prepared In the Office of:

KIMLEY HORN

200 SOUTH TRYON STREET, SUITE 200
CHARLOTTE, NORTH CAROLINA 28202

Designed by:

JUSTIN ROSE, PE

NAME

4389

LEVEL III CERTIFICATION NO.

Roadway Standard Drawings

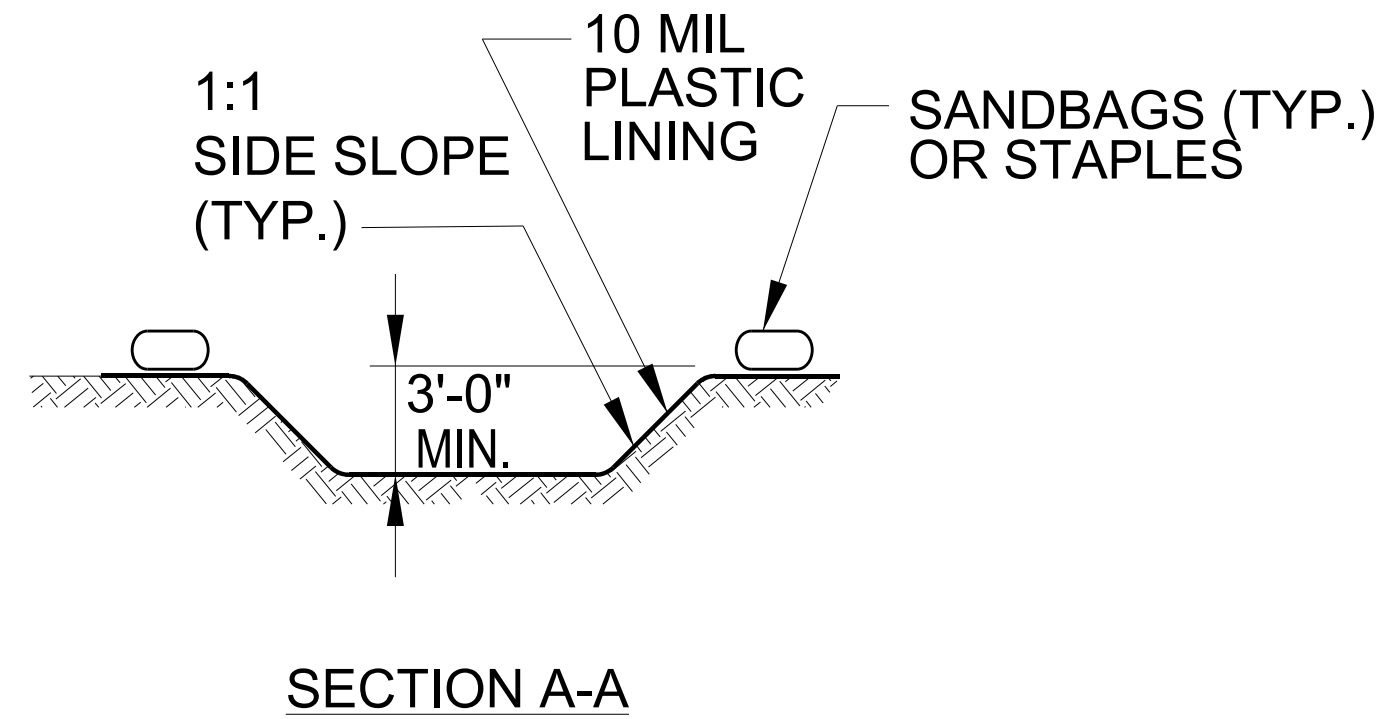
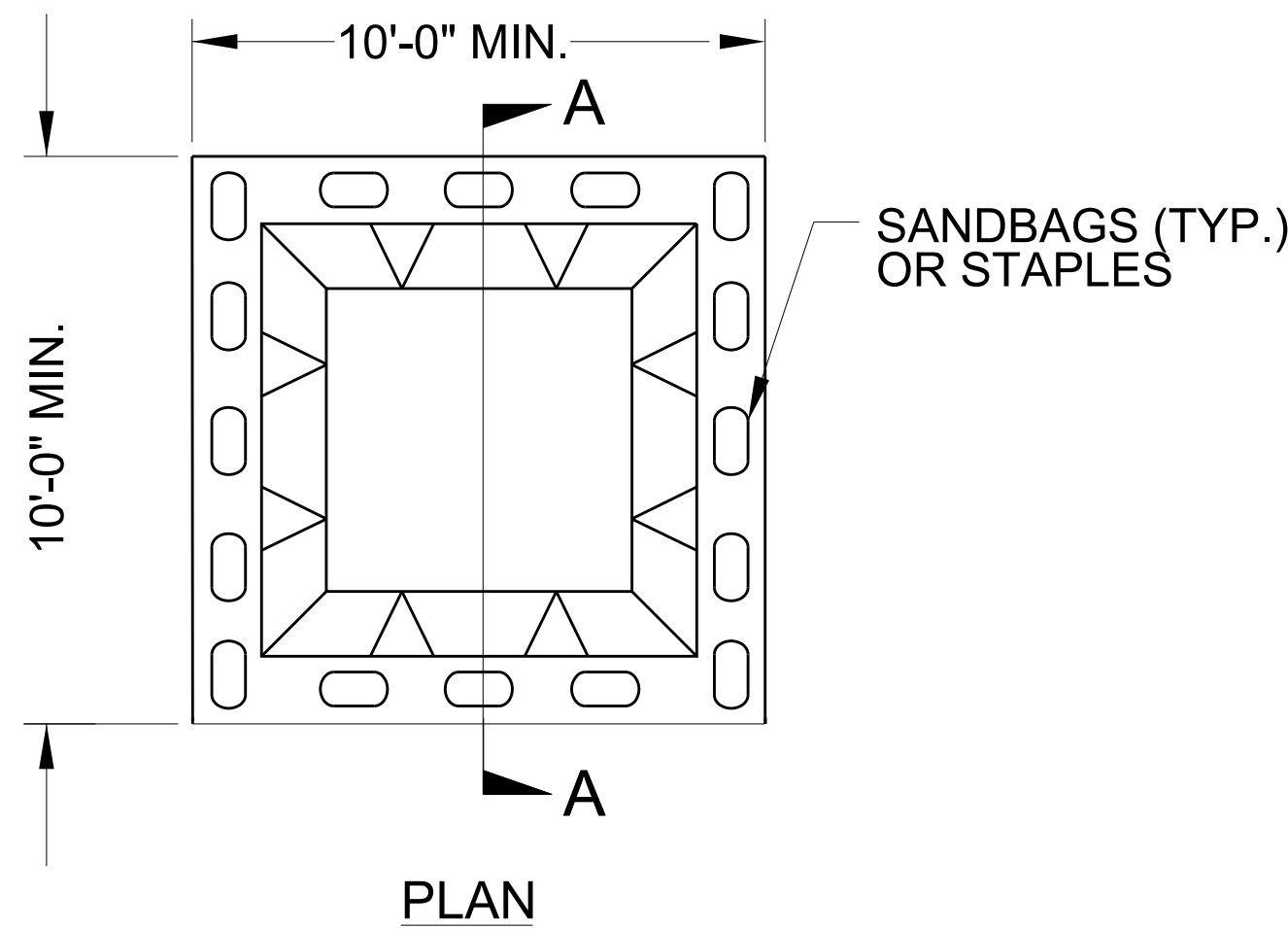
The "Roadway Standard Drawings" – Roadway Design Unit – N. C.
Department of Transportation – Raleigh, N. C., dated January 2024
and the latest revision thereto are applicable to this project and by
reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

EROSION & SEDIMENT CONTROL LEGEND

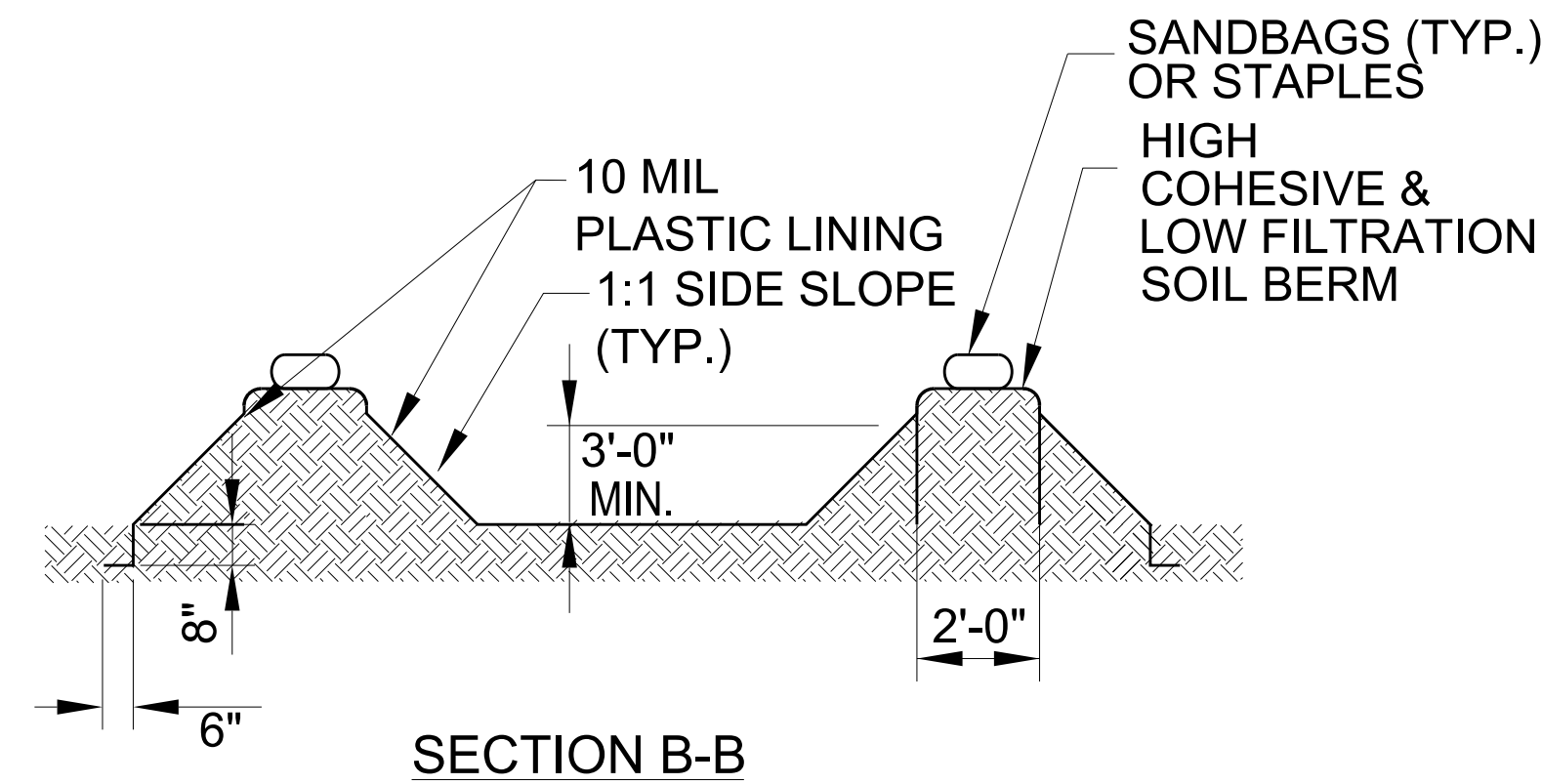
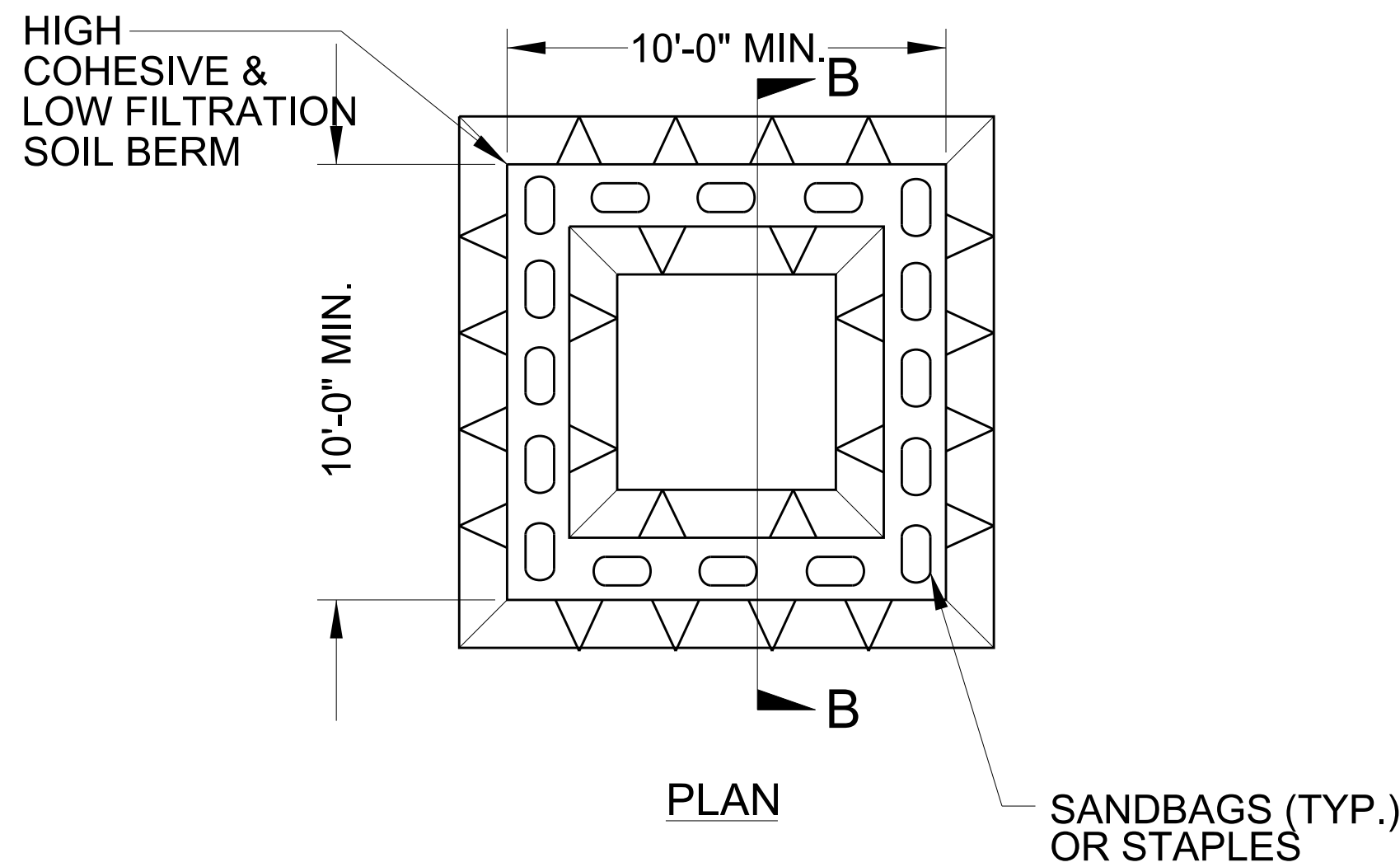
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior 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				
1632.02	Type B		1636.03	Excelsior Wattle Barrier	
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



SOIL STABILIZATION SUMMARY SHEET

STRAW MATTING FOR EROSION CONTROL (DITCHES)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
DITCHES					
11	-Y2-	25+45	26+00	LT	45
14	-Y2-	38+00	38+50	LT	40
14	-Y2-	38+50	40+00	LT	120
11	-Y2RPA-	17+35	20+45	LT	465
11	-Y2RPA-	20+45	20+60	LT	35
11	-Y2RPA-	28+50	29+20	RT	75
11	-Y2RPA-	28+75	29+50	LT	80
11	-Y2RPB-	10+00	12+00	RT	205
11	-Y2RPB-	16+00	17+50	LT	190
11	-Y2LPB-	14+00	15+00	RT	105
11	-Y2LPB-	16+50	18+30	LT	140
11	-Y3-	10+15	11+45	RT	75
11	-Y4-	12+60	13+10	RT	50
15	-Y5-	10+50	10+75	LT	20
15	-Y9-	10+38	10+50	LT	10
10	-Y1-	12+00	13+50	LT	85
10	-Y1RPD-	10+00	11+00	RT	125
10	-Y1RPD-	11+00	14+50	RT	435
10	-Y1RPD-	14+50	18+00	RT	435
10	-Y1RPD-	16+50	17+50	LT	125
10	-Y1RPD-	17+50	19+50	LT	155
10	-Y2RPD-	26+00	31+00	RT	620
10	-Y2RPD-	32+50	34+00	RT	225
11	-Y2RPA-DTR-	22+50	25+00	LT	380
11	-Y2RPA-DTR-	25+00	27+50	RT	555
11	-Y2RPB-DTR-	15+00	17+00	LT	225
11	-Y2RPB-DTR-	18+50	21+00	RT	355
11	-Y2RPB-DTR-	21+00	23+50	LT	225

MATTING FOR EROSION CONTROL (DITCHES)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
PRISM TYPE 3					
DITCHES					
10	-Y1-	10+88	12+00	LT	65
			SUBTOTAL		65
				TOTAL	65
				SAY	80
EXCELSIOR					
DITCHES					
11	-Y2RPA-	29+20	31+50	RT	235
11	-Y2RPA-	29+50	30+50	LT	105
11	-Y2RPB-	17+50	20+65	LT	390
11	-Y2LPB-	15+00	15+50	RT	55
11	-Y2RPD-	51+00	52+00	RT	125
11	-Y2RPB-DTR-	15+50	17+00	RT	80
			SUBTOTAL		990
				TOTAL	990
				SAY	1,000
		DITCHES SUBTOTAL			6,600
	MATTING TO BE INSTALLED ON SLOPES*				37,000
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					40,375
				TOTAL	83,975
				SAY	85,000

* REFER TO FINAL CONSTRUCTION PHASE SHEETS FOR LOCATIONS OF MATTING ON SLOPES

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

REVISIONS

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7/13/2026

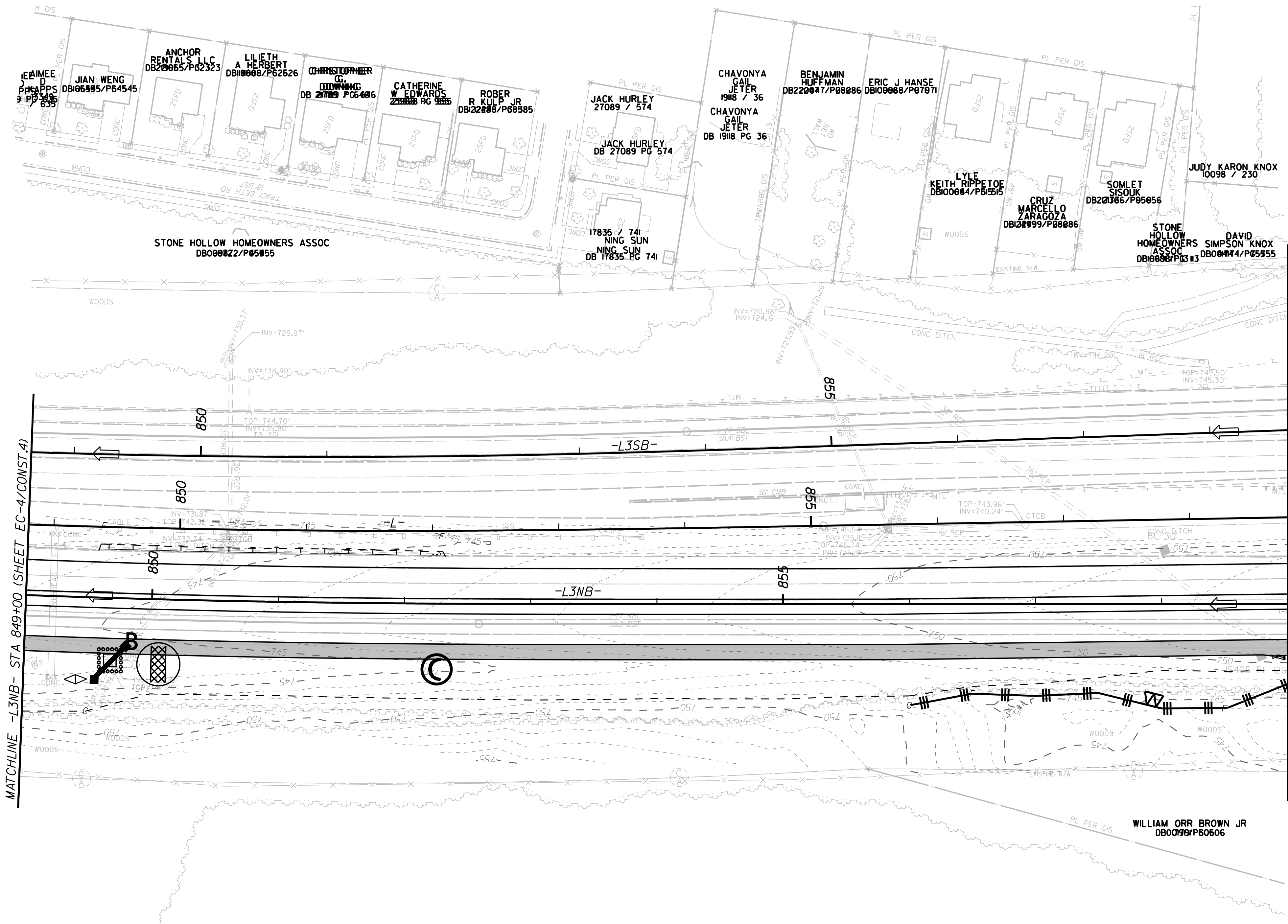
PROJECT REFERENCE NO.	SHEET NO.
I-5715	EC-5/CONST.5

Kimley»Horn

200 S. TRYON ST. • CHARLOTTE, NC 28202

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NC GRID
NAD 83 NA 2011



ROBERT MONROE BROWN
DB00895/P6333

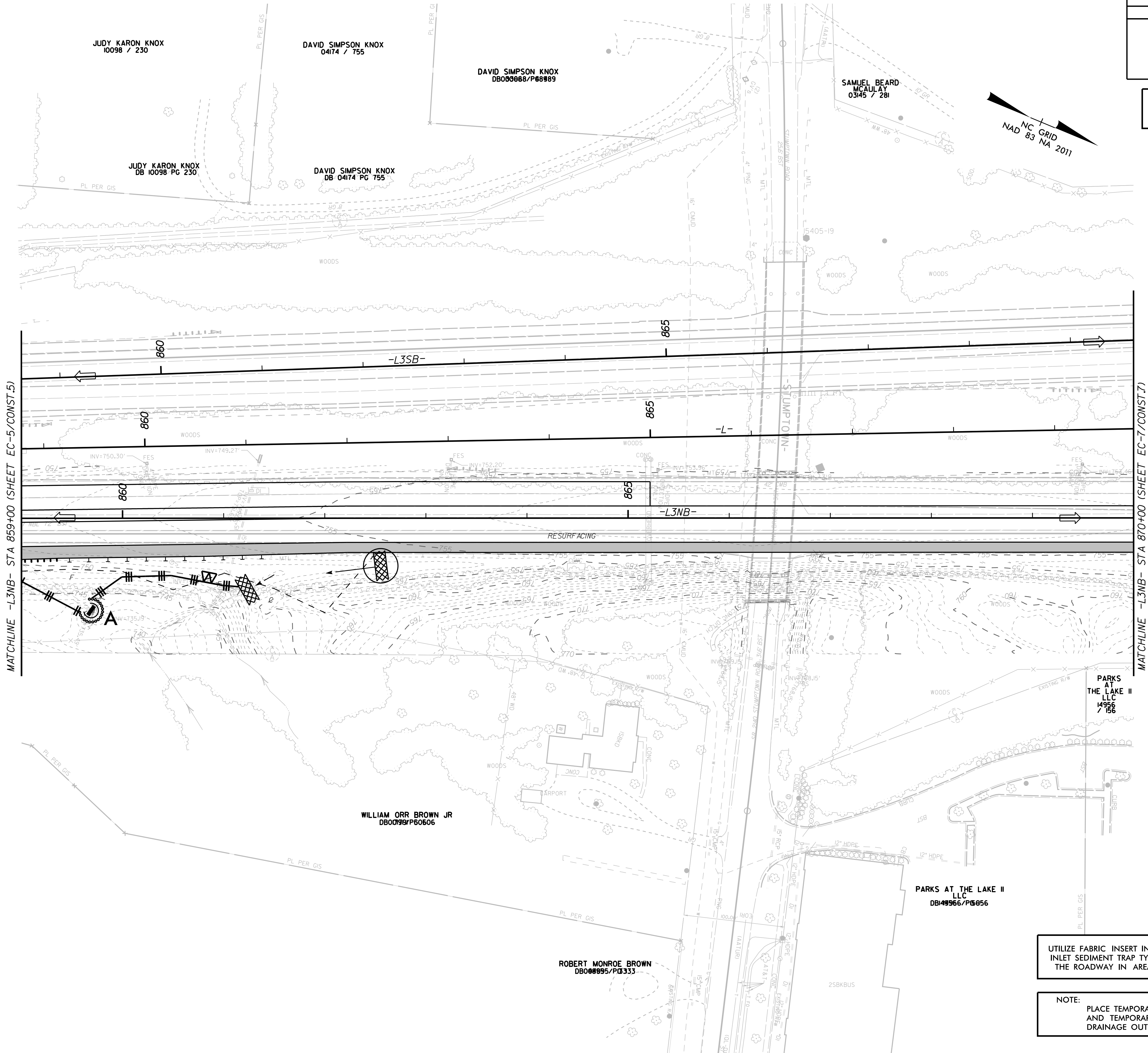
UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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

REVISIONS

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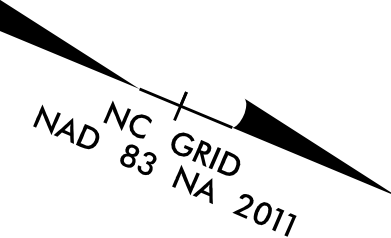


PROJECT REFERENCE NO.	SHEET NO.
I-5715	EC-6/CONST.6

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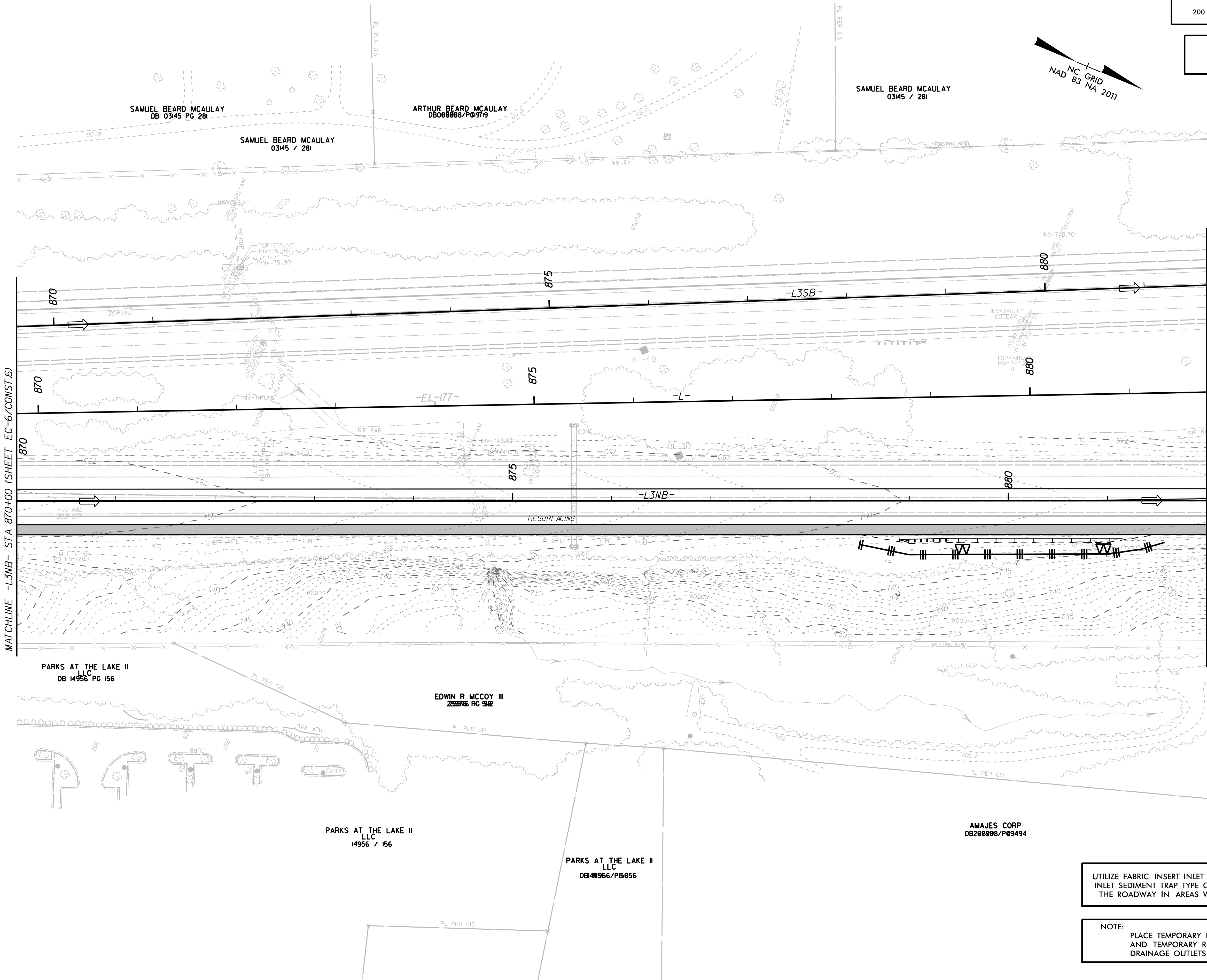
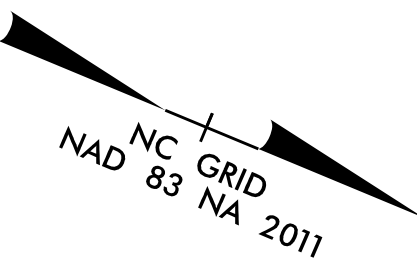
200 S. TRYON ST. • CHARLOTTE, NC 28202

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6



UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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

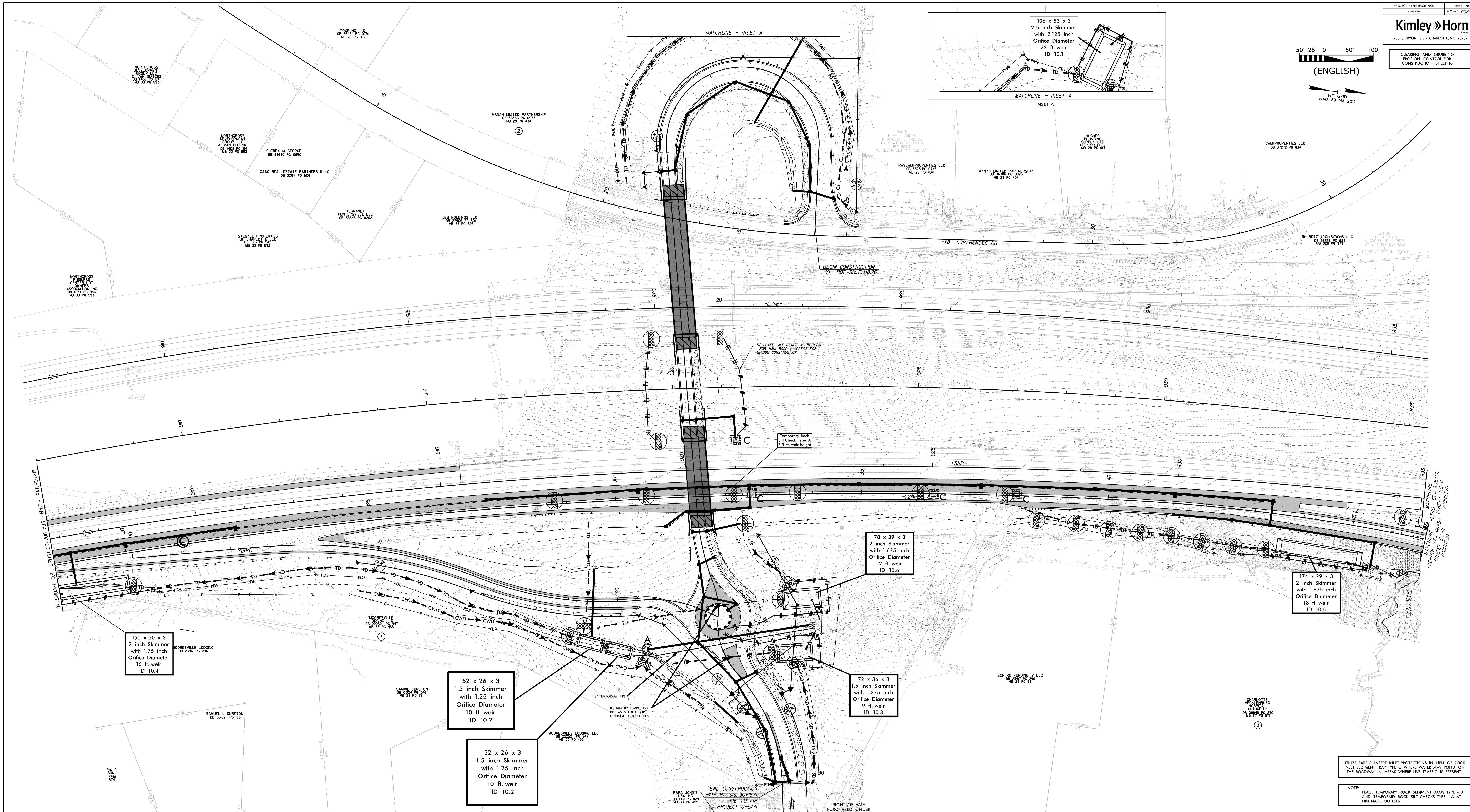


UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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

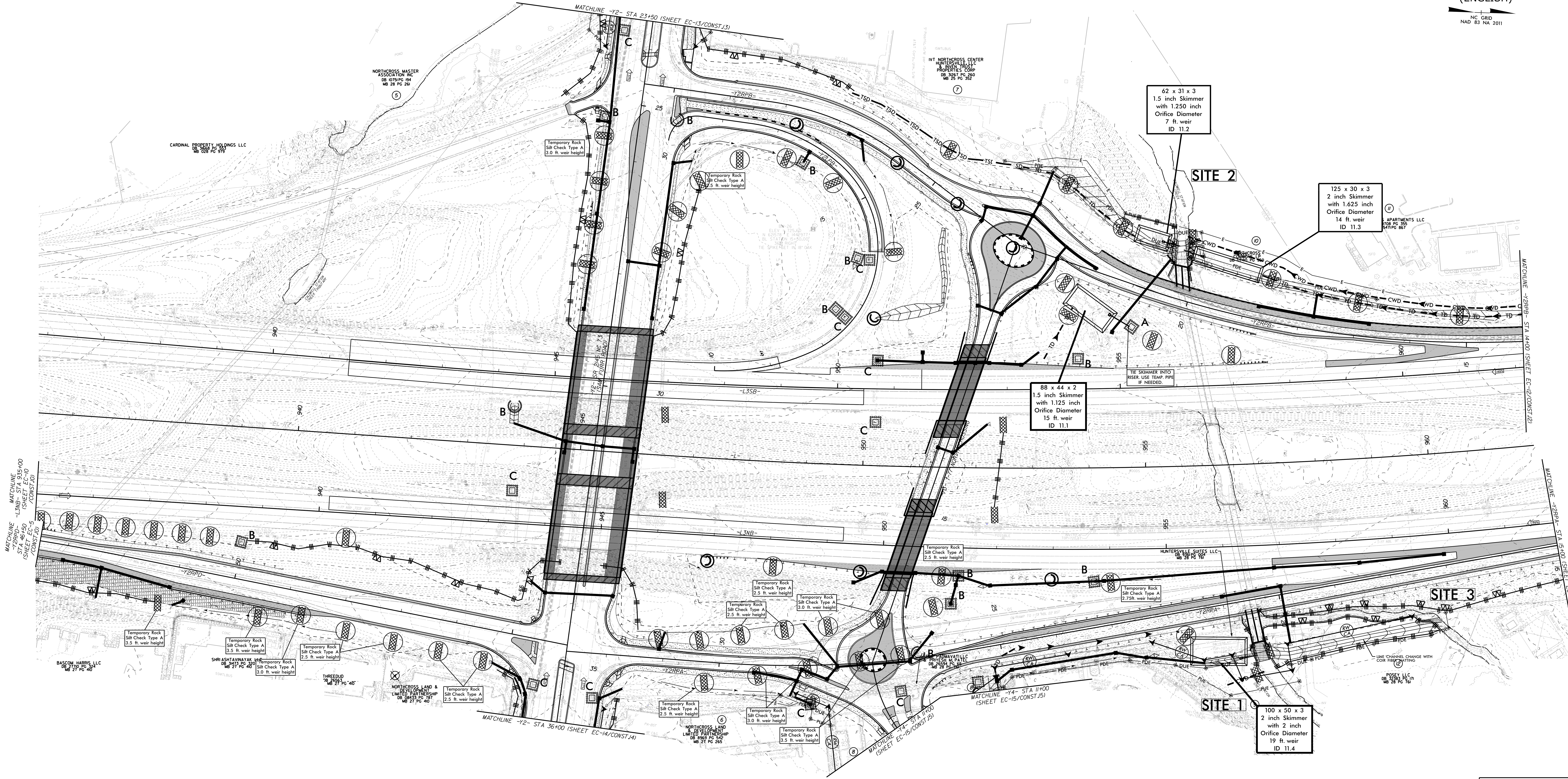
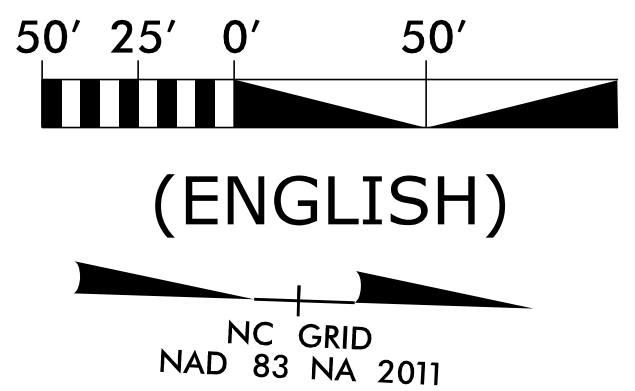
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NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.



UTILIZE FABRIC, INSERT INLET PROTECTIONS IN LIEU OF ROCK
INLET SEDIMENT TRAP TYPE C, WHERE WATER MAY POND ON
THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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

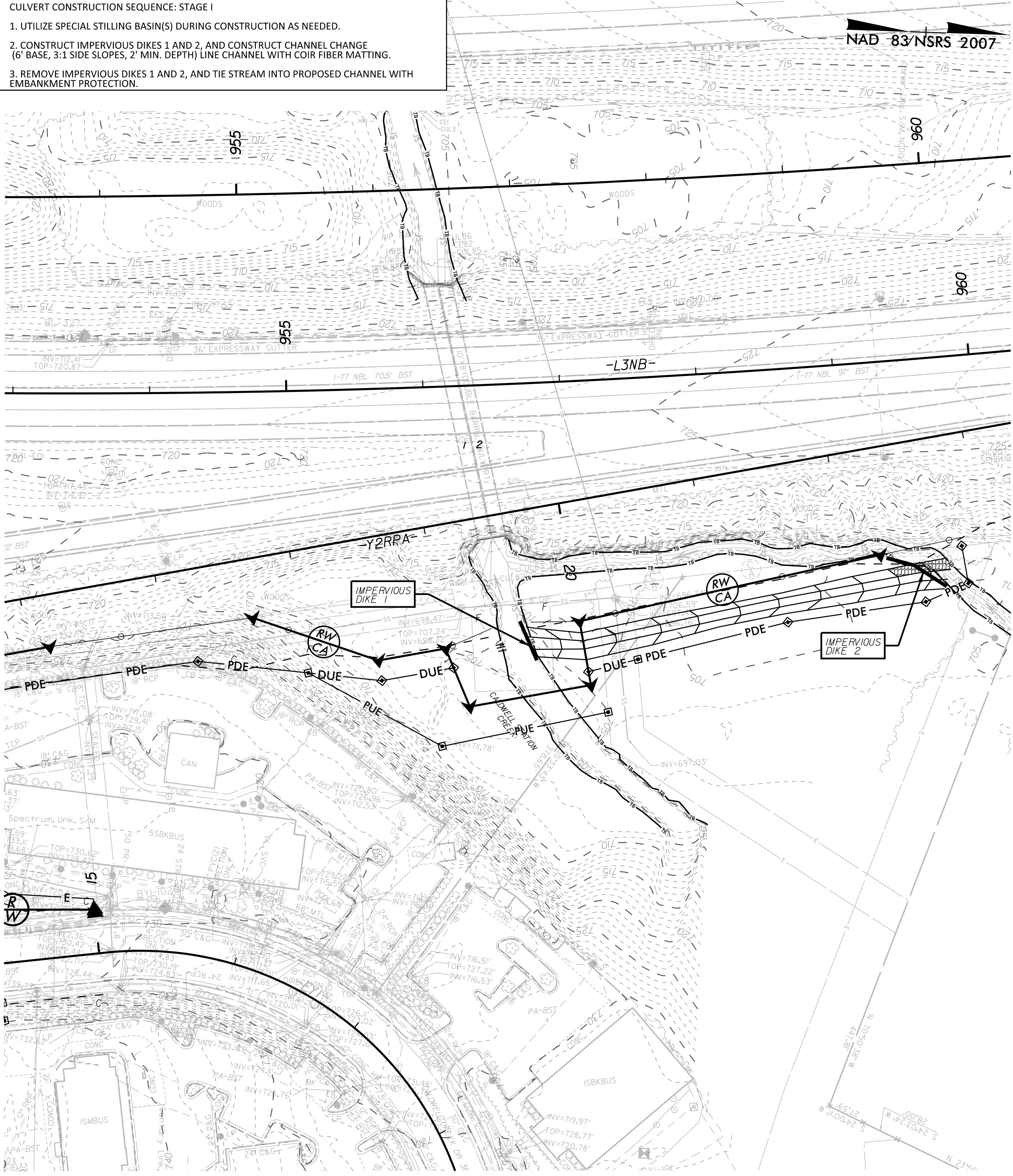
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CULVERT CONSTRUCTION SEQUENCE

-Y2RPA- STA. 20+53

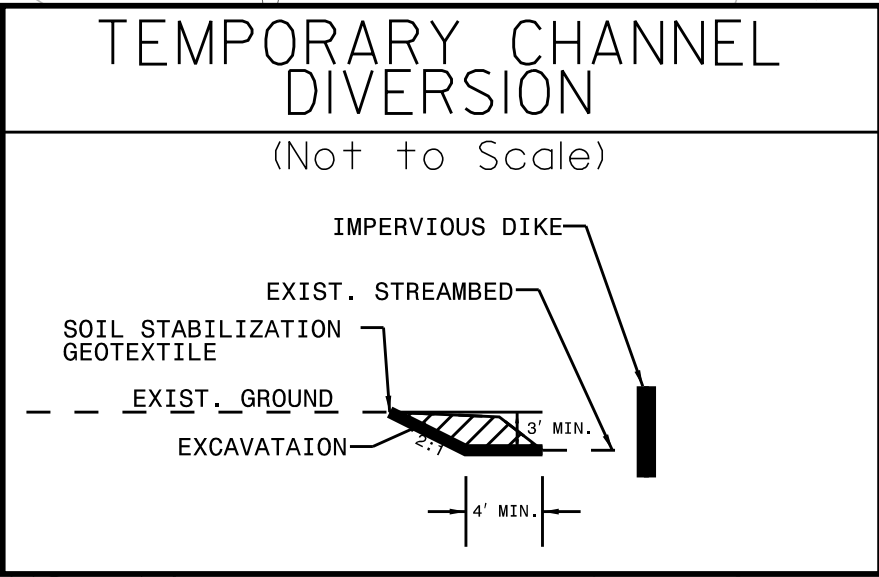
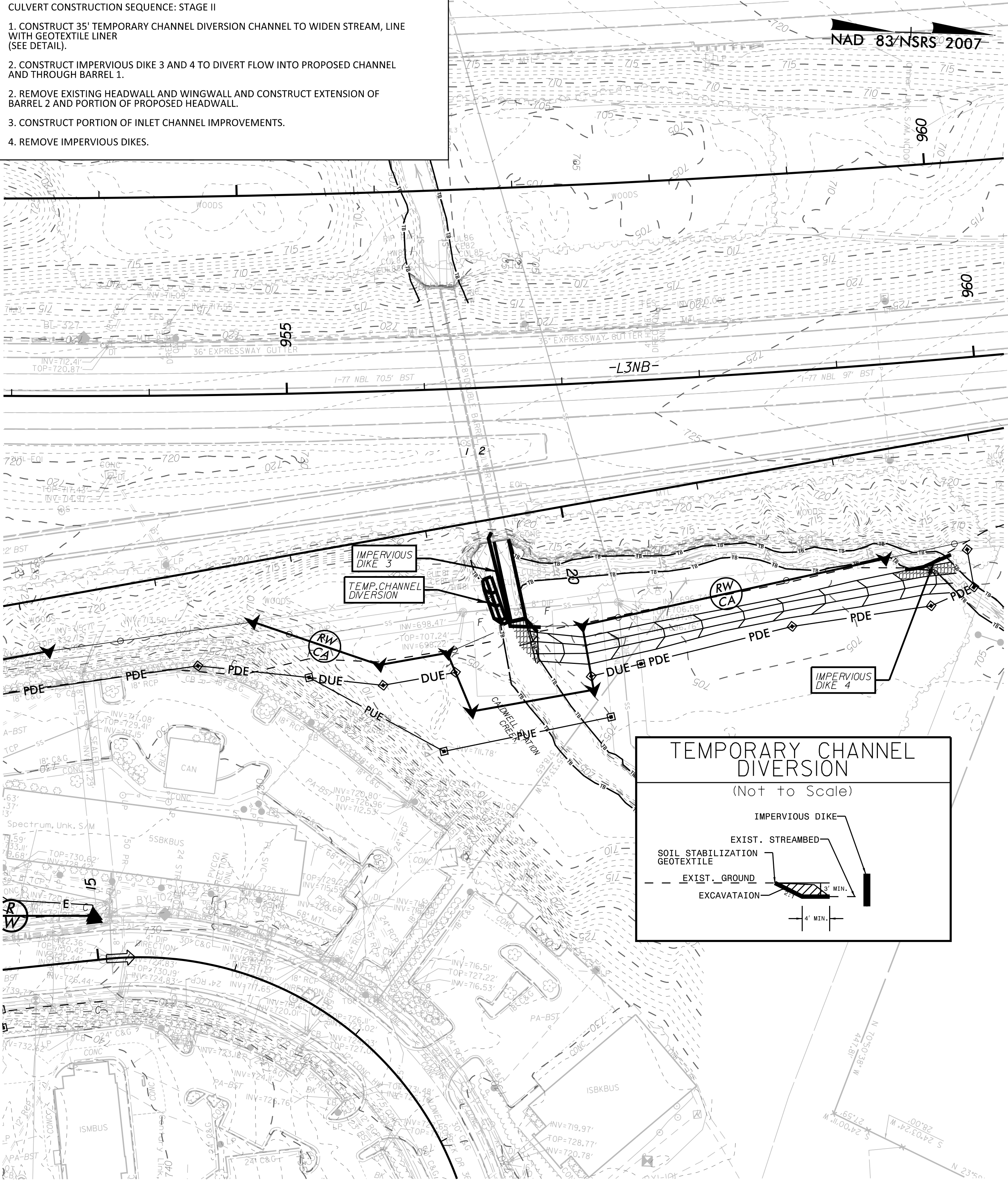
STAGE I (-Y2RPA- STA. 20+53)

- CULVERT CONSTRUCTION SEQUENCE: STAGE I
1. UTILIZE SPECIAL STILLING BASIN(S) DURING CONSTRUCTION AS NEEDED.
 2. CONSTRUCT IMPERVIOUS DIKES 1 AND 2, AND CONSTRUCT CHANNEL CHANGE (6' BASE, 3:1 SIDE SLOPES, 2' MIN. DEPTH) LINE CHANNEL WITH COIR FIBER MATTING.
 3. REMOVE IMPERVIOUS DIKES 1 AND 2, AND TIE STREAM INTO PROPOSED CHANNEL WITH EMBANKMENT PROTECTION.



STAGE II (-Y2RPA- STA. 20+53)

- CULVERT CONSTRUCTION SEQUENCE: STAGE II
1. CONSTRUCT 35' TEMPORARY CHANNEL DIVERSION CHANNEL TO WIDEN STREAM, LINE WITH GEOTEXTILE LINER (SEE DETAIL).
 2. CONSTRUCT IMPERVIOUS DIKE 3 AND 4 TO DIVERT FLOW INTO PROPOSED CHANNEL AND THROUGH BARREL 1.
 3. REMOVE EXISTING HEADWALL AND WINGWALL AND CONSTRUCT EXTENSION OF BARREL 2 AND PORTION OF PROPOSED HEADWALL.
 4. CONSTRUCT PORTION OF INLET CHANNEL IMPROVEMENTS.
 5. REMOVE IMPERVIOUS DIKES.



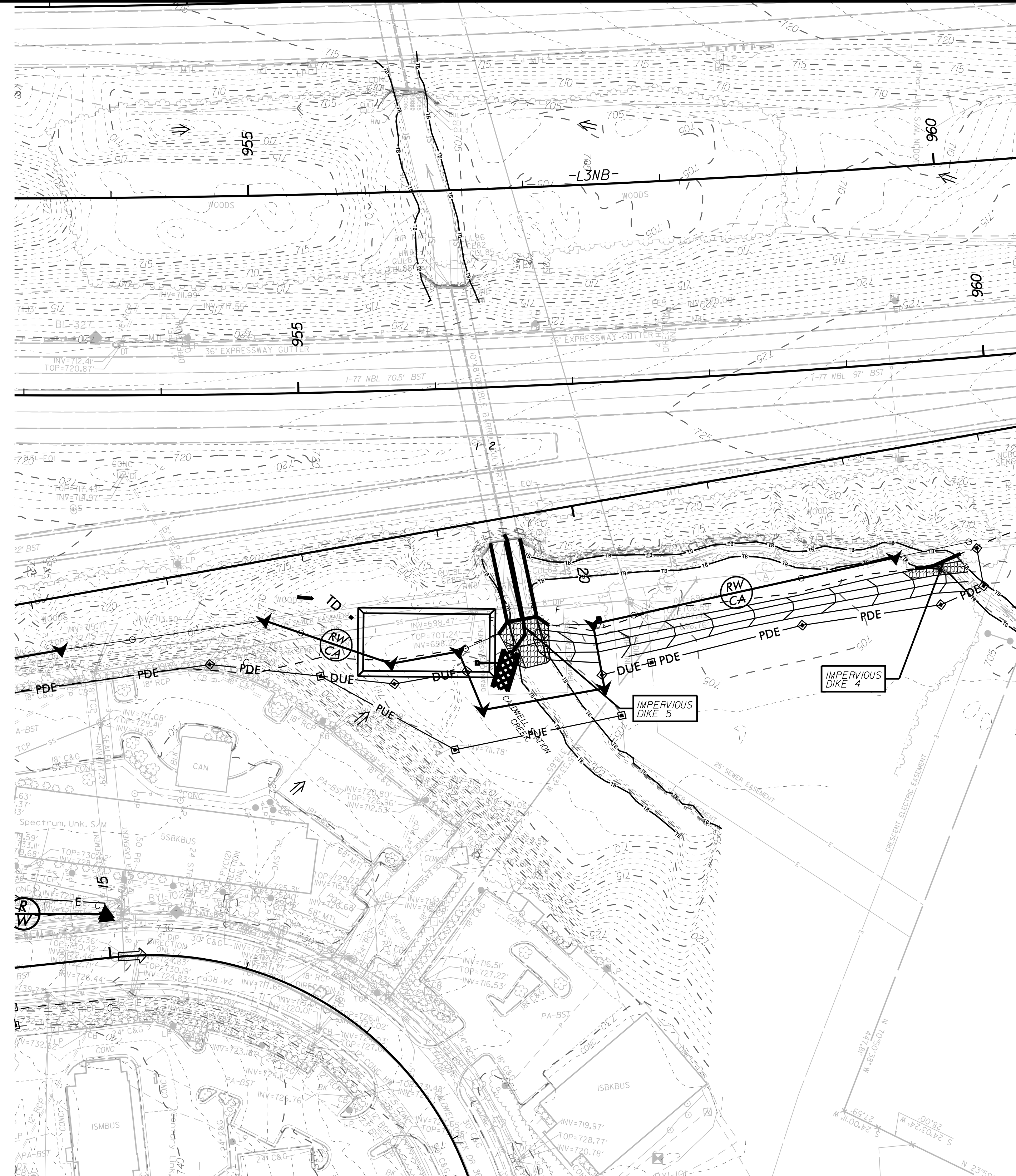
CULVERT CONSTRUCTION SEQUENCE

—Y2RPA— STA. 20 + 53

STAGE III (-Y2RPA- STA. 20+53)

- CULVERT CONSTRUCTION SEQUENCE: STAGE III
1. CONSTRUCT TEMPORARY DIVERSION.
 2. CONSTRUCT IMPERVIOUS DIKE 5 AND DIVERT FLOW THROUGH BARREL 2.
 3. REMOVE REMAINDER OF EXISTING HEADWALL AND WINGWALL AND CONSTRUCT EXTENSION OF BARREL 1.
 4. CONSTRUCT REMAINDER OF PROPOSED HEADWALL AND WINGWALL AND INLET CHANNEL IMPROVEMENTS.
 5. REMOVE IMPERVIOUS DIKE AND SPECIAL STILLING BASIN(S).
 6. COMPLETE ROADWAY WIDENING.

NAD 83/NSRS 2007



REVISIONS

CULVERT CONSTRUCTION SEQUENCE

–Y2RPB– STA. 20 + 03

STAGE I (–Y2RPB– STA. 20 + 03)

- CULVERT CONSTRUCTION SEQUENCE: STAGE I
1. BEGIN CULVERT CONSTRUCTION DURING TRAFFIC CONTROL PHASE 2. REFER TO TRAFFIC CONTROL PLANS. UTILIZE SPECIAL STILLING BASIN(S) DURING CONSTRUCTION AS NEEDED.

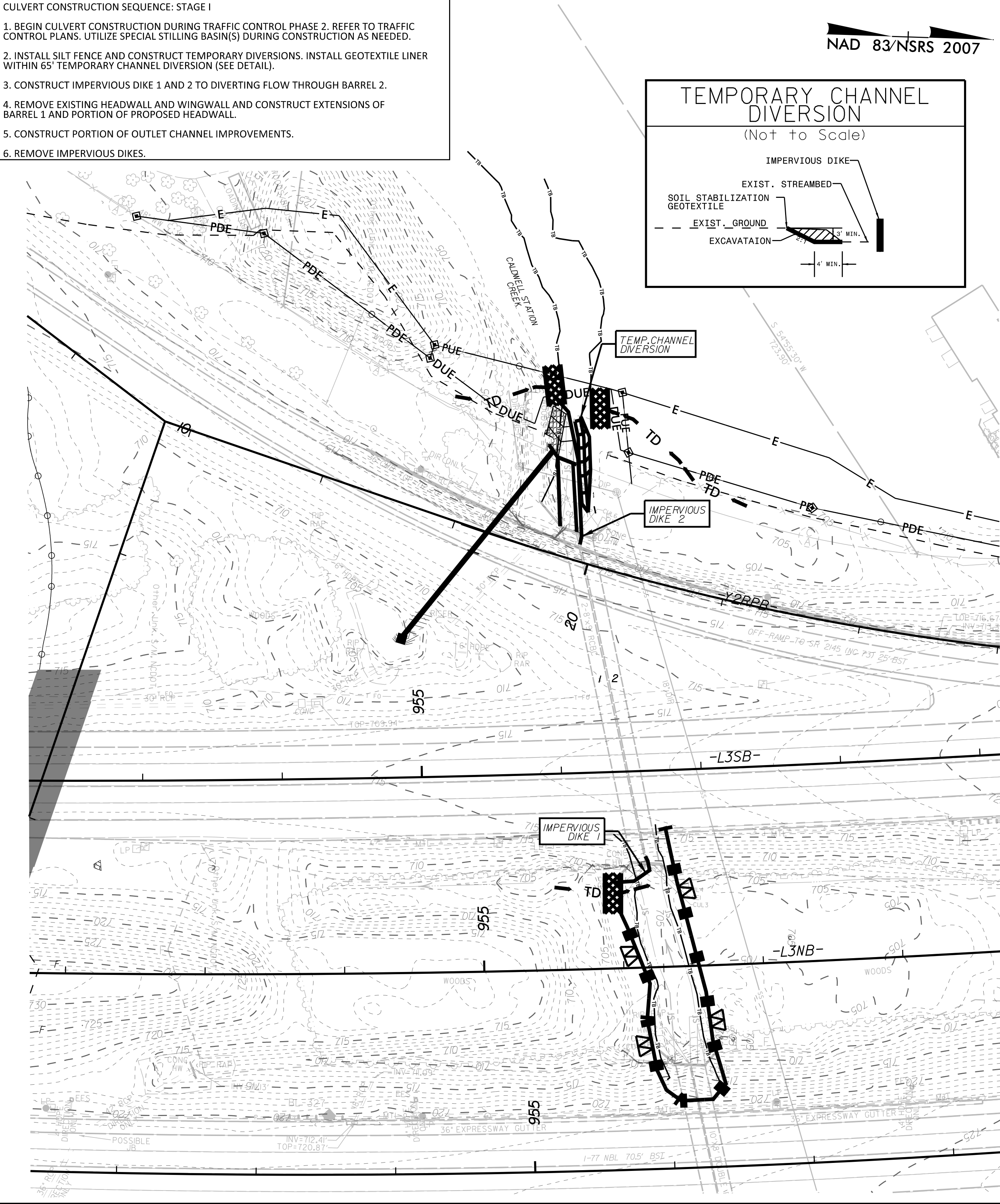
2. INSTALL SILT FENCE AND CONSTRUCT TEMPORARY DIVERSIONS. INSTALL GEOTEXTILE LINER WITHIN 65' TEMPORARY CHANNEL DIVERSION (SEE DETAIL).

3. CONSTRUCT IMPERVIOUS DIKE 1 AND 2 TO DIVERTING FLOW THROUGH BARREL 2.

4. REMOVE EXISTING HEADWALL AND WINGWALL AND CONSTRUCT EXTENSIONS OF BARREL 1 AND PORTION OF PROPOSED HEADWALL.

5. CONSTRUCT PORTION OF OUTLET CHANNEL IMPROVEMENTS.

6. REMOVE IMPERVIOUS DIKES.



STAGE II (–Y2RPB– STA. 20 + 03)

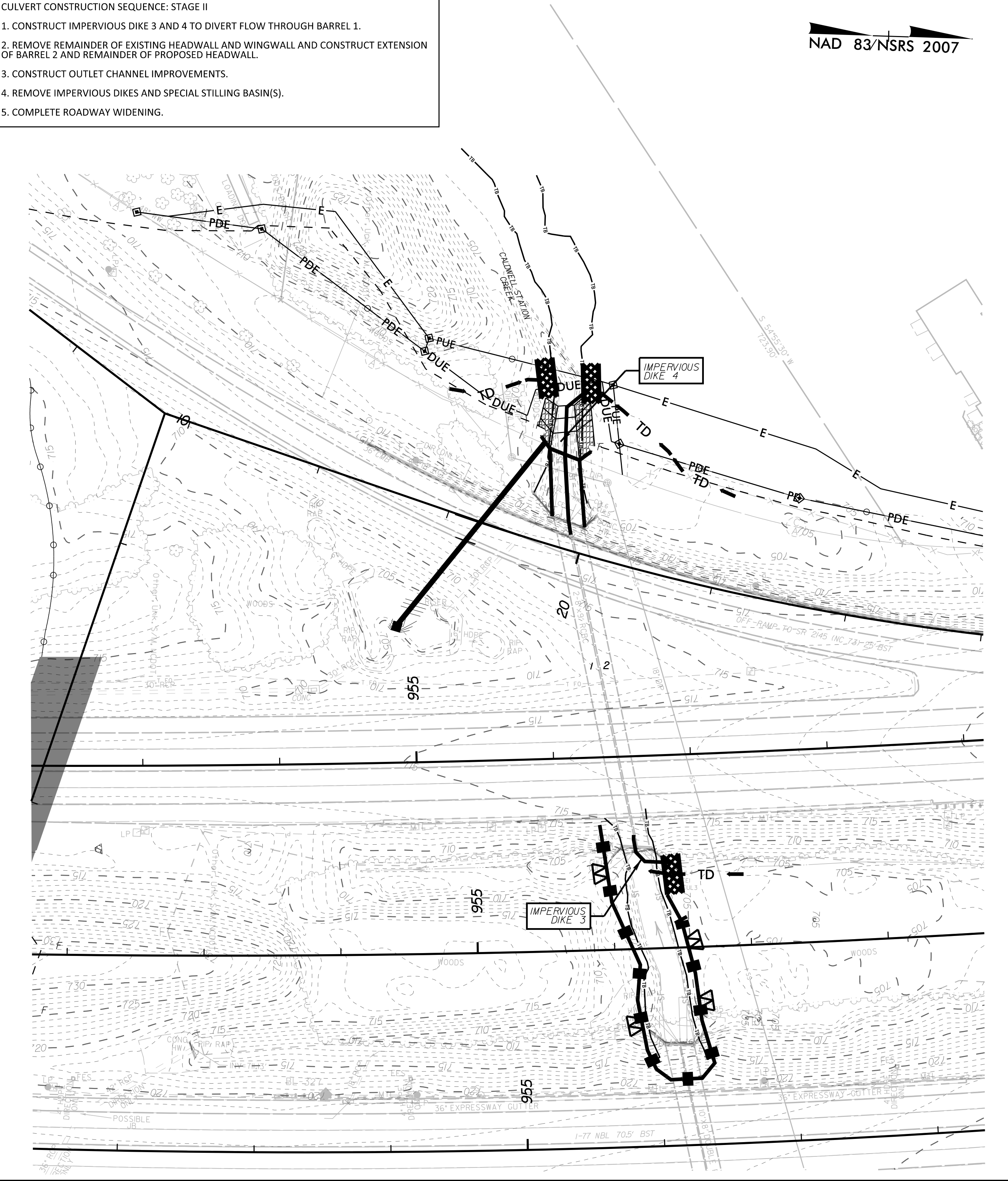
- CULVERT CONSTRUCTION SEQUENCE: STAGE II
1. CONSTRUCT IMPERVIOUS DIKE 3 AND 4 TO DIVERT FLOW THROUGH BARREL 1.

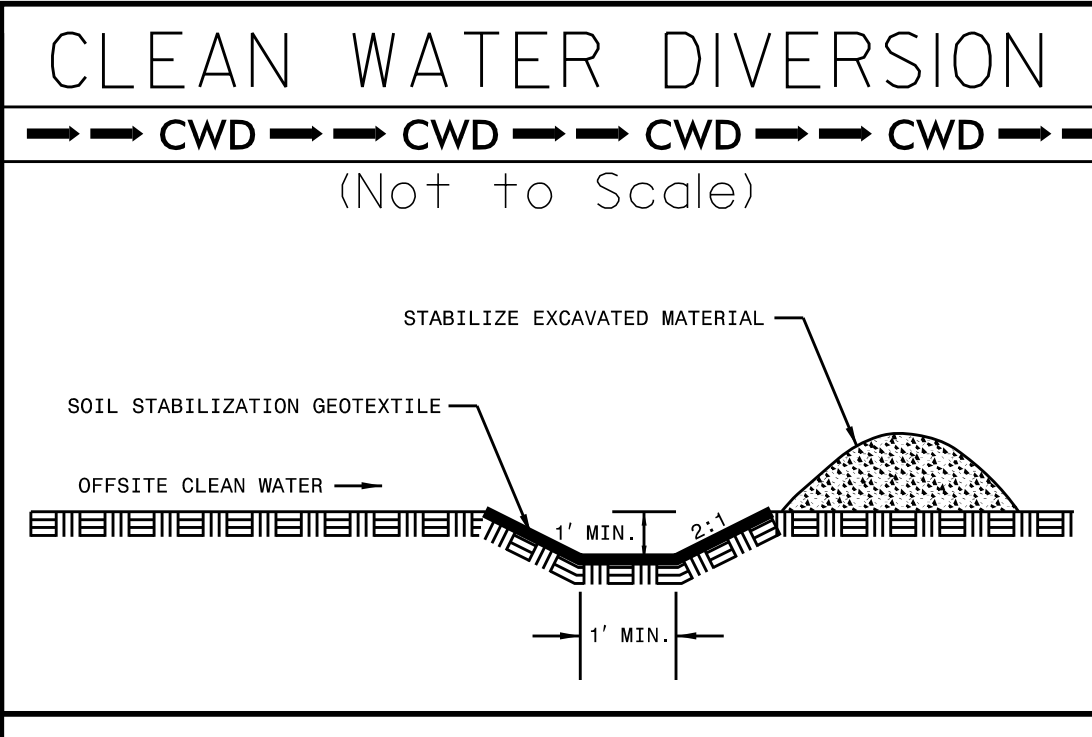
2. REMOVE REMAINDER OF EXISTING HEADWALL AND WINGWALL AND CONSTRUCT EXTENSION OF BARREL 2 AND REMAINDER OF PROPOSED HEADWALL.

3. CONSTRUCT OUTLET CHANNEL IMPROVEMENTS.

4. REMOVE IMPERVIOUS DIKES AND SPECIAL STILLING BASIN(S).

5. COMPLETE ROADWAY WIDENING.



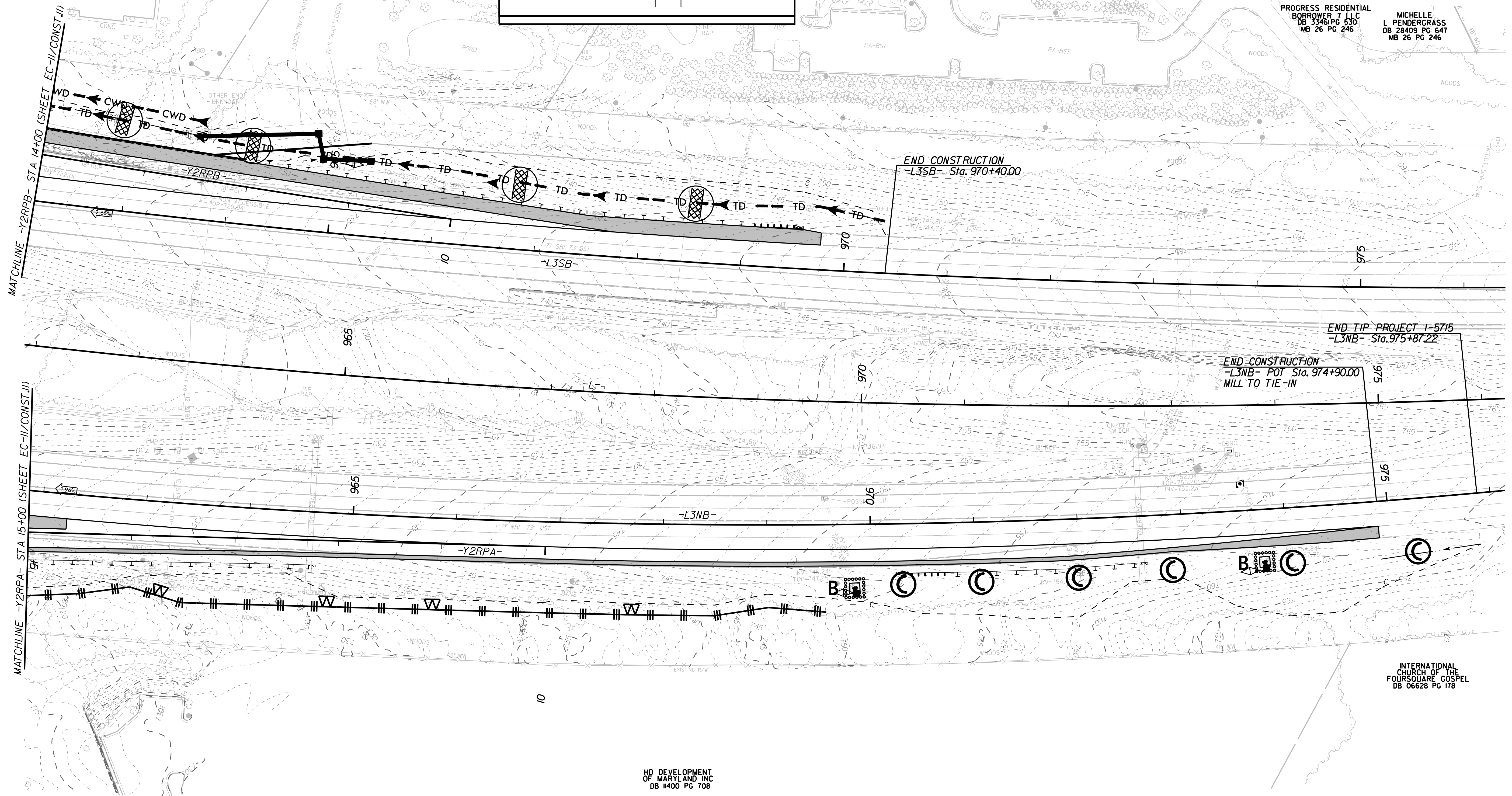
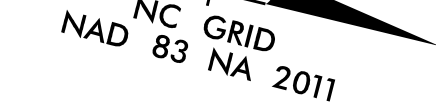


PROJECT REFERENCE NO.	SHEET NO.
I-5715	EC-12/CONST.12

Kimley»Horn

200 S. TRYON ST. • CHARLOTTE, NC 28202

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 12



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

REVISIONS

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7/13/2026

CULVERT CONSTRUCTION SEQUENCE

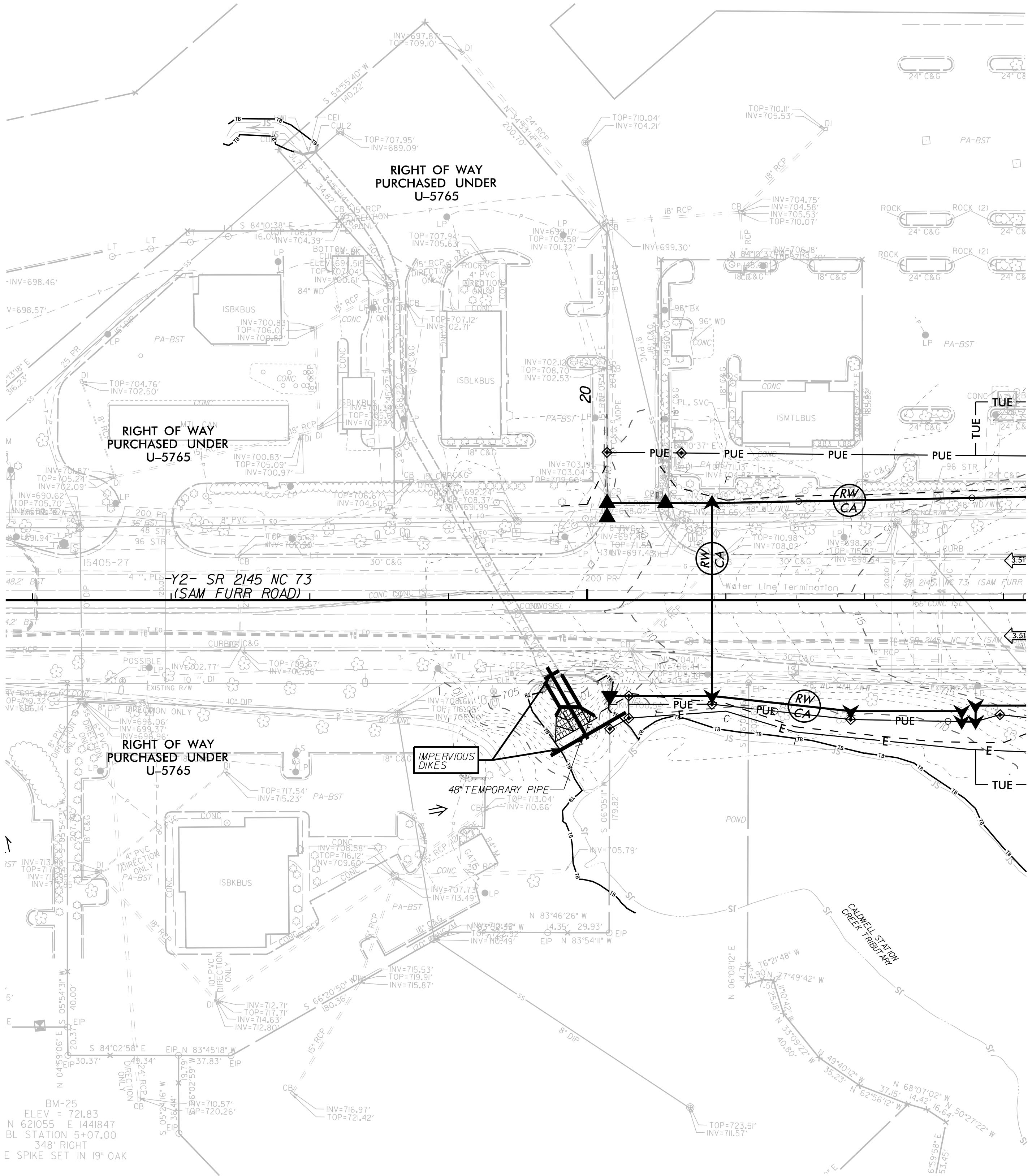
-Y2- STA.19 + 43

PROJECT REFERENCE NO.	SHEET NO.
I-5715	EC-13A
Kimley »Horn	
200 S. TRYON ST. • CHARLOTTE, NC 28202	

STAGE I (-Y2- 19 + 43)

CULVERT CONSTRUCTION SEQUENCE: STAGE I

1. UTILIZE SPECIAL STILLING BASIN(S) DURING CULVERT CONSTRUCTION AS NEEDED.
2. CONSTRUCT IMPERVIOUS DIKES AND BYPASS PUMP UNTIL CULVERT FLOOR INSTALLATION IS COMPLETED.
3. INSTALL 48 INCH TEMPORARY PIPE, DIVERTING FLOW THROUGH THE TEMPORARY PIPE.
4. CONSTRUCT CULVERT EXTENSION.
5. CONSTRUCT ANY NECESSARY CHANNEL IMPROVEMENTS.
6. REMOVE IMPERVIOUS DIKES AND TEMPORARY PIPE.
7. COMPLETE ROADWAY WIDENING.



NAD 83 N/SRS 2007

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7/13/2026

NC GRID
NAD 83 NA 2011



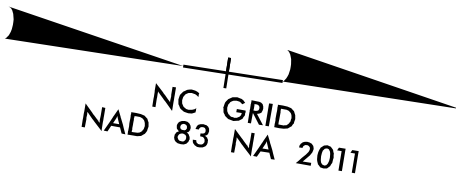
UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

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

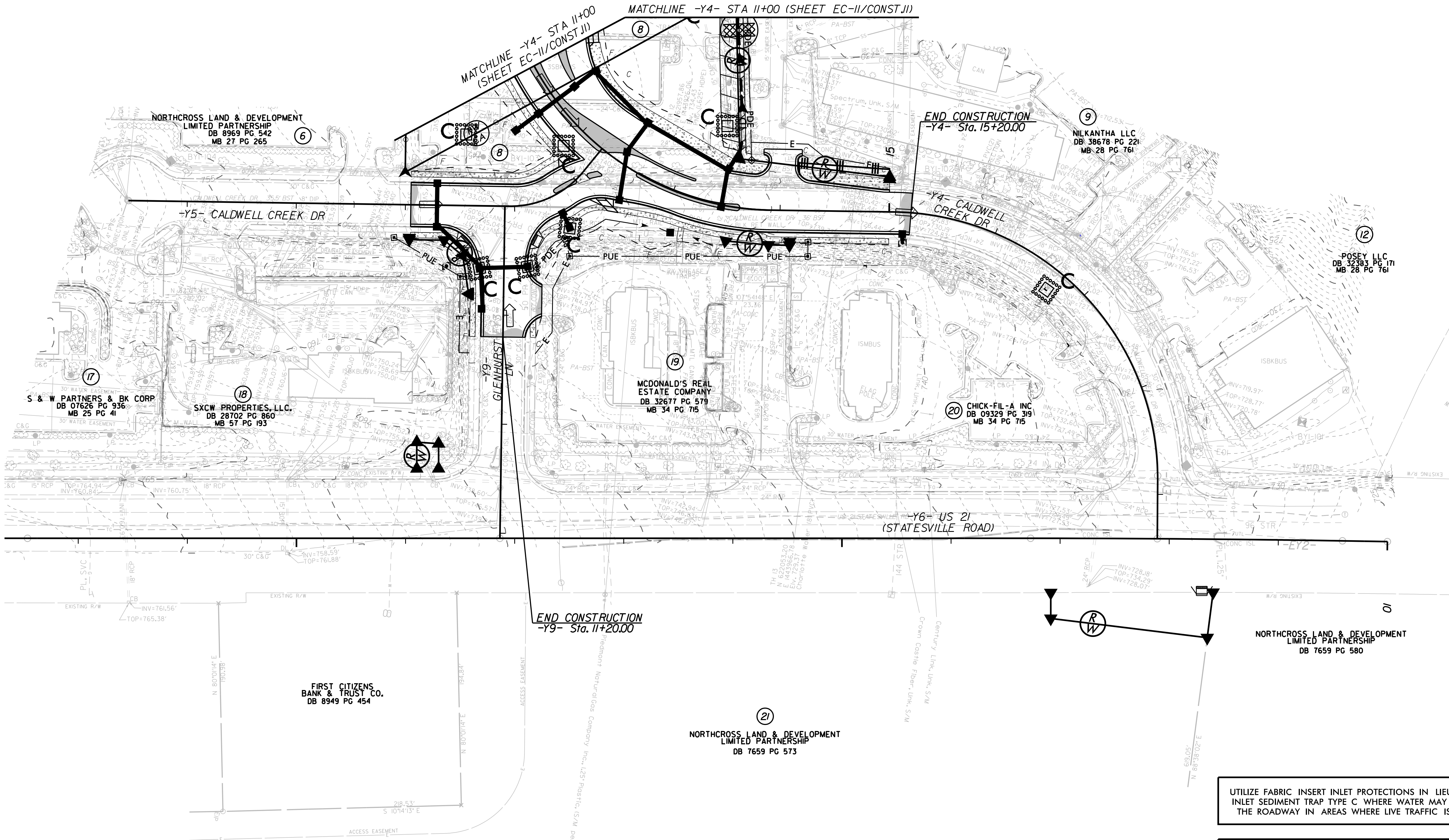
REVISIONS

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7/13/2026



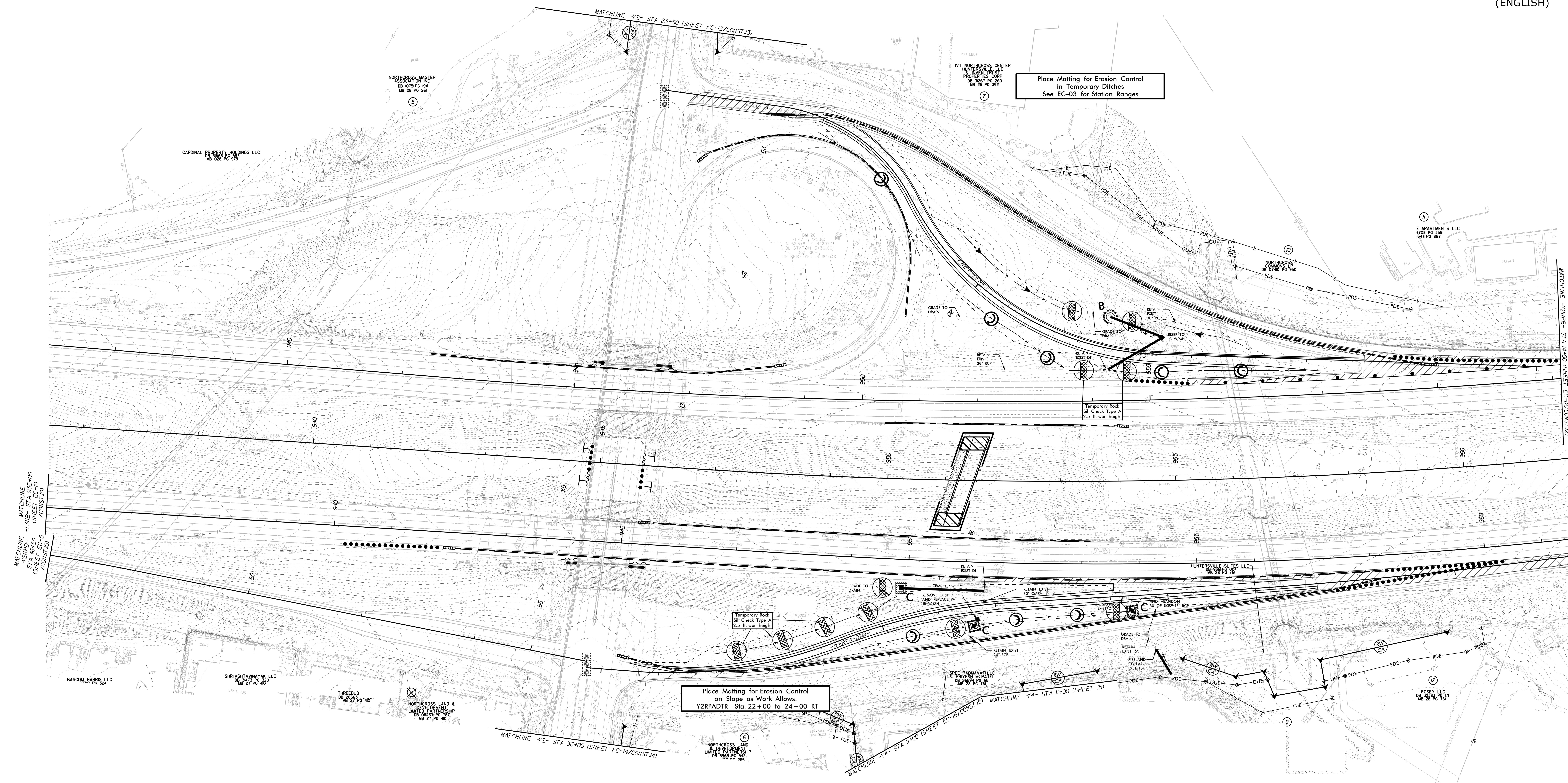
REVISIONS



UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

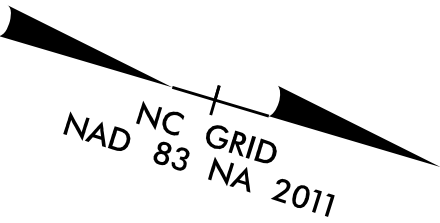
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

PROJECT REFERENCE NO.	SHEET NO.
1-5715	EC-16/CONST.J
200 S. TRYON ST. • CHARLOTTE, NC 28202	

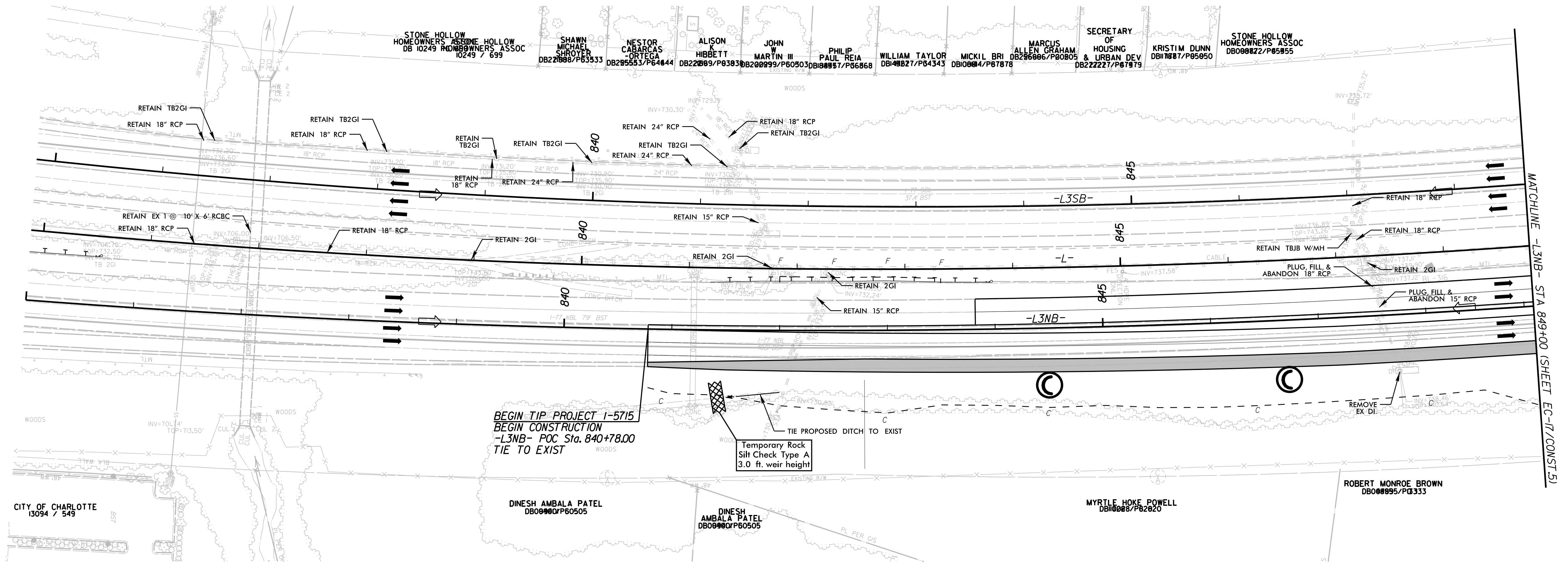


UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

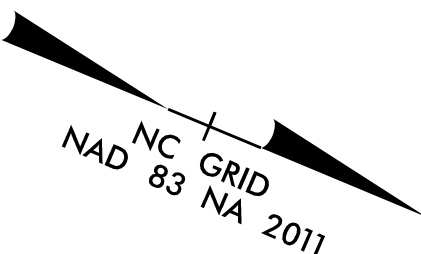
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.



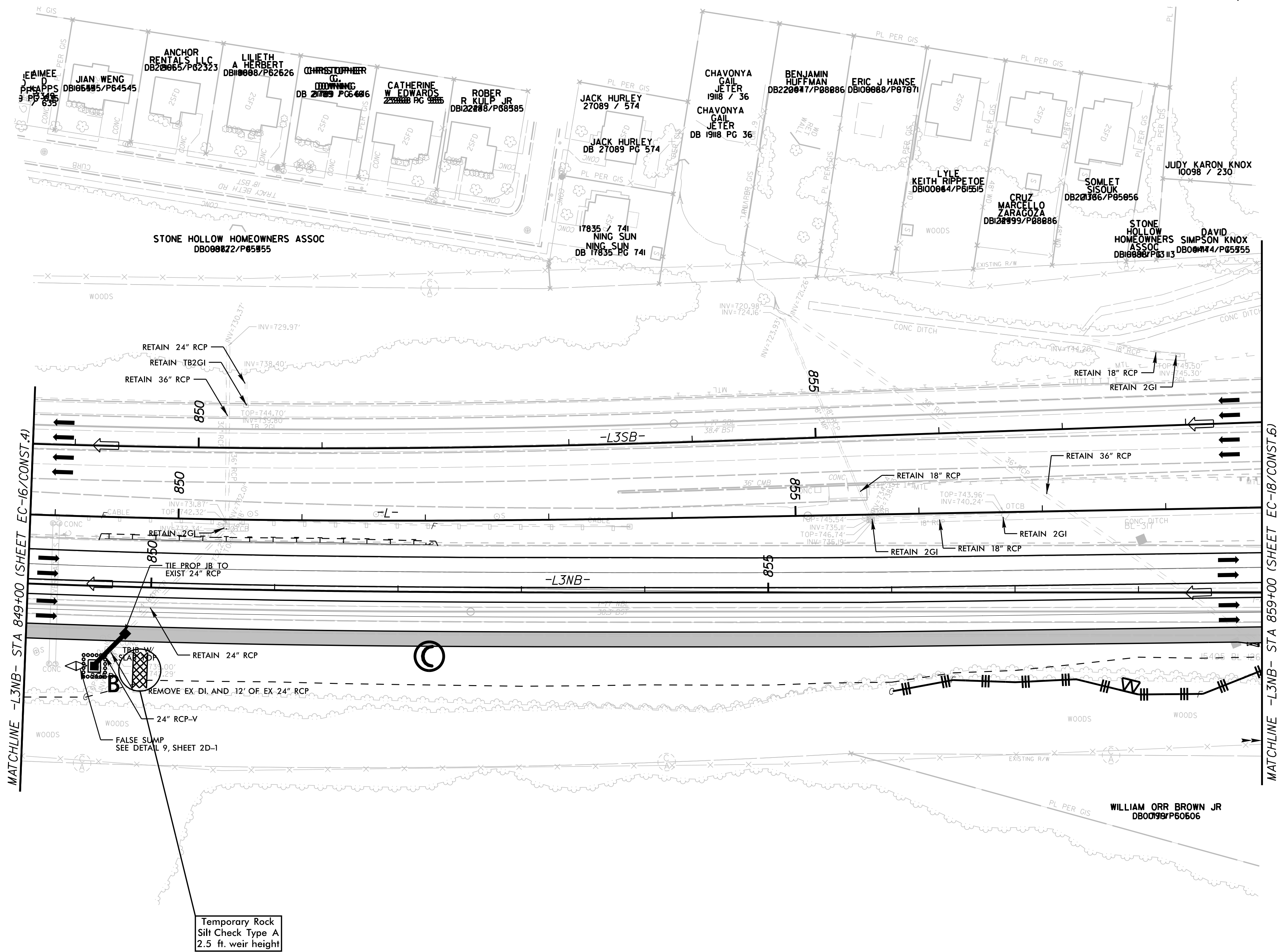
REVISIONS



UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.



REVISIONS



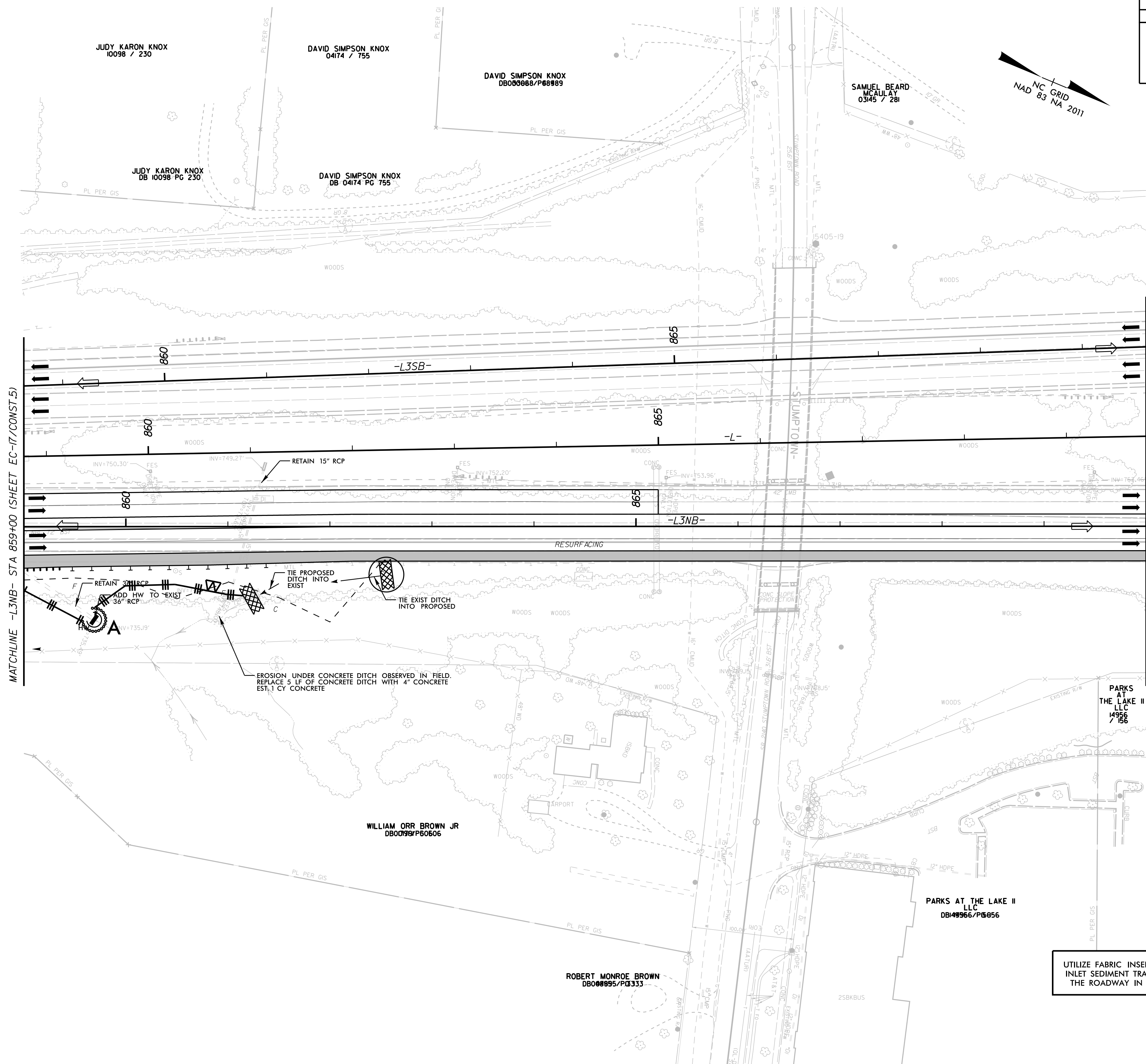
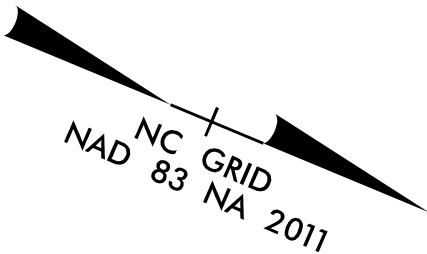
ROBERT MONROE BROWN
DB000895/P0333

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

PROJECT REFERENCE NO.	SHEET NO.
I-5715	EC-19/CONST.6

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UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER MAY POND ON THE ROADWAY IN AREAS WHERE LIVE TRAFFIC IS PRESENT.

REVISIONS

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7/13/2026