0041DEL_P10a1

DGN

TIP PROJECT: P-5208G

CONTRACT: C203206

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
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	SW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
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	
	Clean Water Diversion	CWD

STATE OF NORTH CAROLINA
NCDOT RAIL DIVISION

PLAN FOR PROPOSED EROSION CONTROL

CABARRUS AND MECKLENBURG COUNTIES

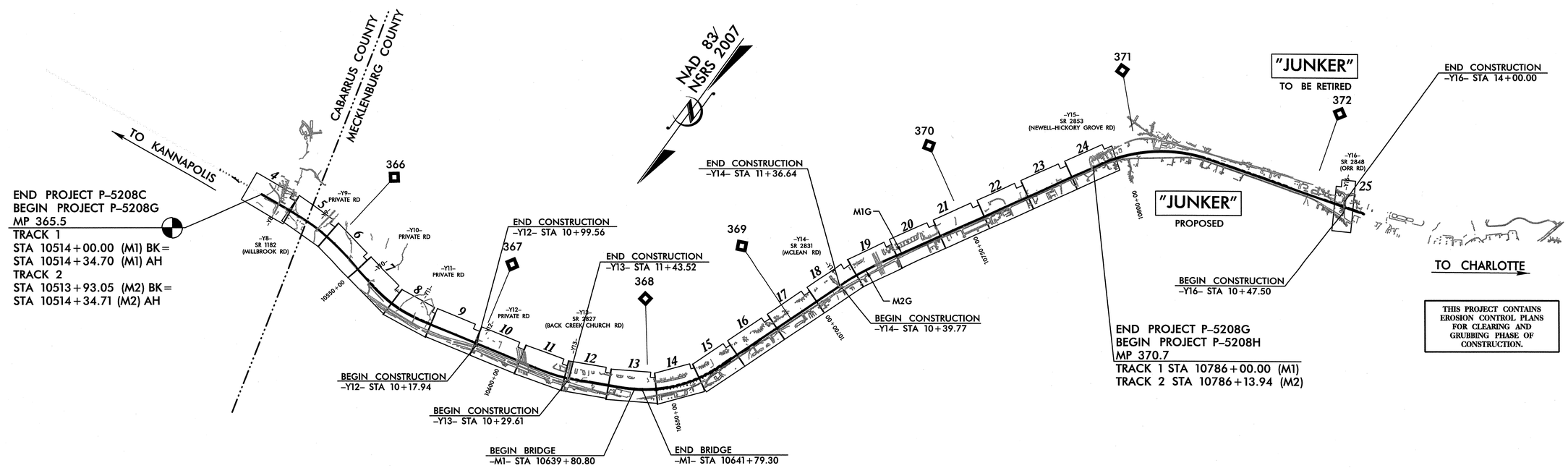
LOCATION: *NCRR/NS MAINLINE RAILROAD FROM MILLBROOK ROAD (SR 1182, MP 365.5) TO NORTH OF NEWELL-HICKORY GROVE ROAD (SR 2853), MP 370.7*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, STRUCTURES AND RETAINING WALLS*

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	P-5208G	EC-1	53

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
50000.1.STR11T1B		PE, UTIL PE
50000.1.STR12T3		PE, UTIL PE
43219.2.STR09P5208		RIGHT OF WAY
50000.3.STR01T4A	FRA-FR-HSR-0006-10-01-00	CONST, UTIL CONST

NC DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
DESIGN AND CONSTRUCTION



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

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:
AECOM
NC FIRM LICENSE No: F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

2012 STANDARD SPECIFICATIONS

EROSION CONTROL
LEVEL III
CERTIFICATION # 3135
RENE REMY, CPESC, CPSWQ

Roadway Standard Drawings

The following roadway <u>english</u> standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revison 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		

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remyr

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-02

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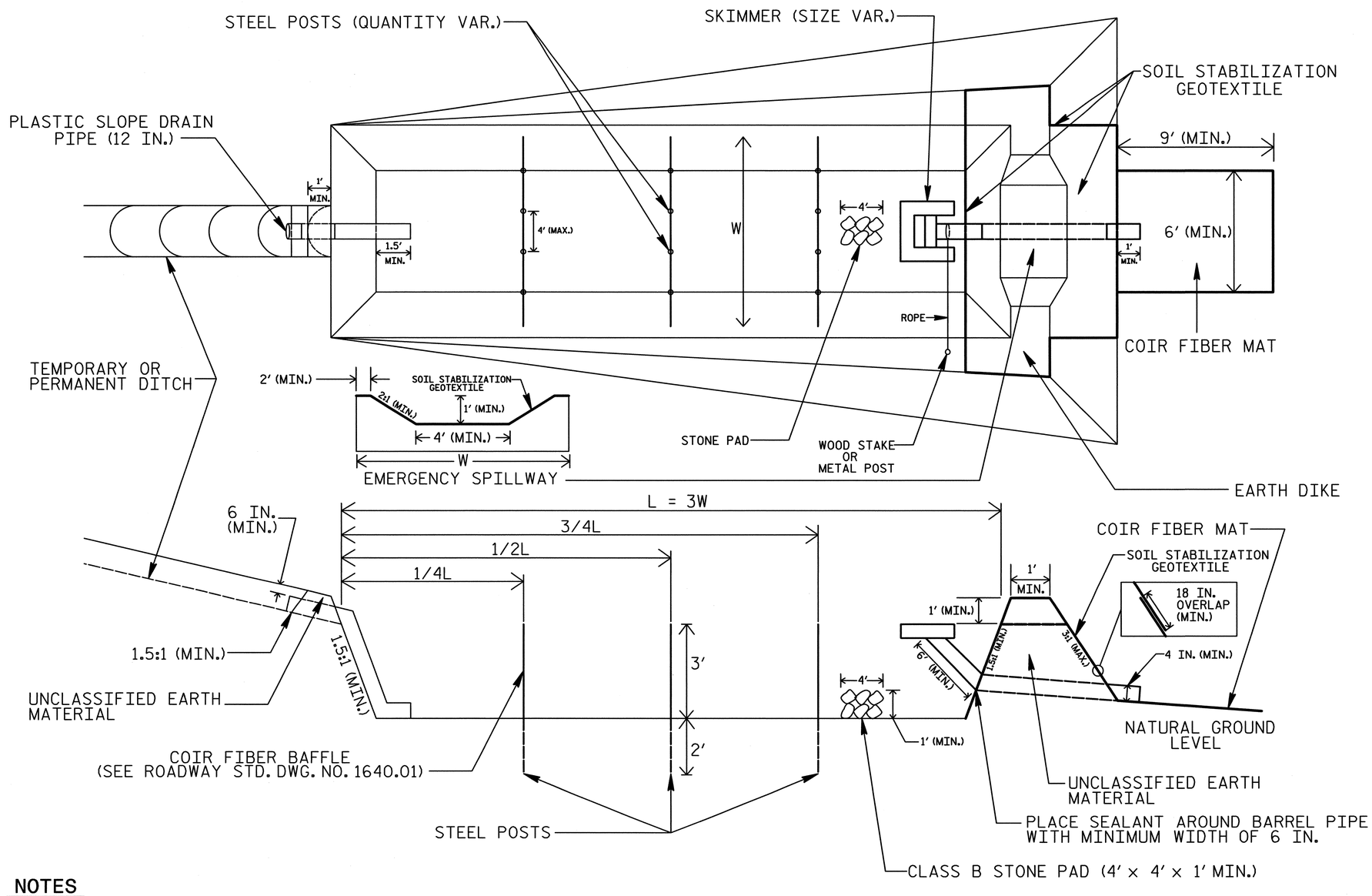
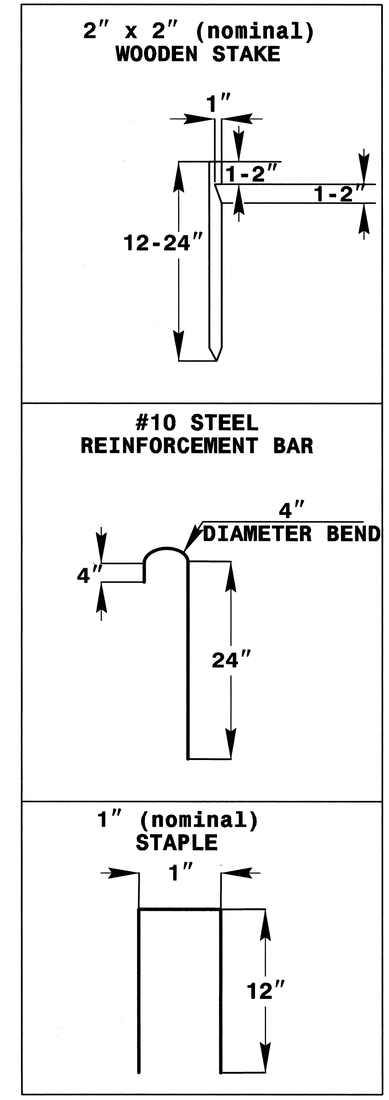
SKIMMER BASIN WITH BAFFLES DETAIL





COIR FIBER MAT ANCHOR OPTIONS

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 EMERGENCY SPILLWAY 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 AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-02A

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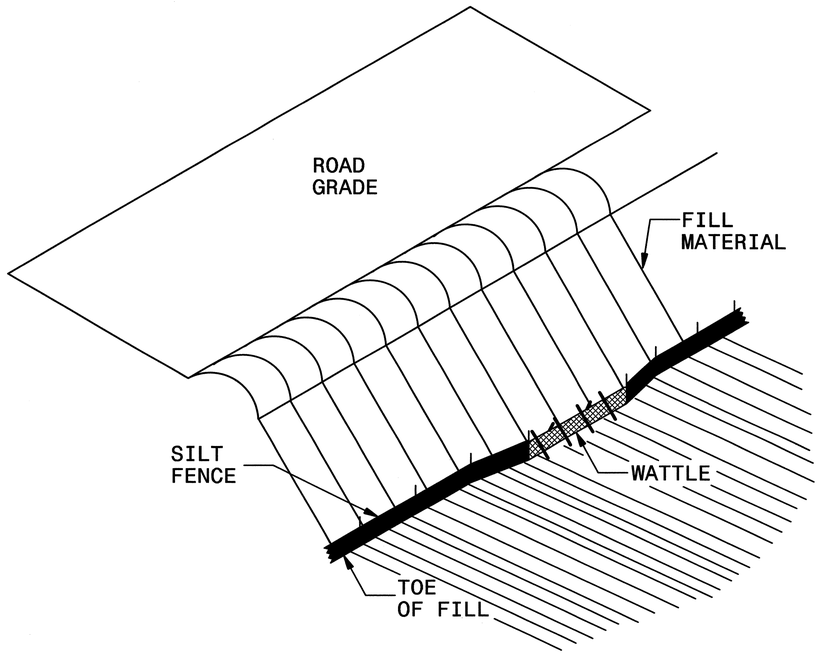
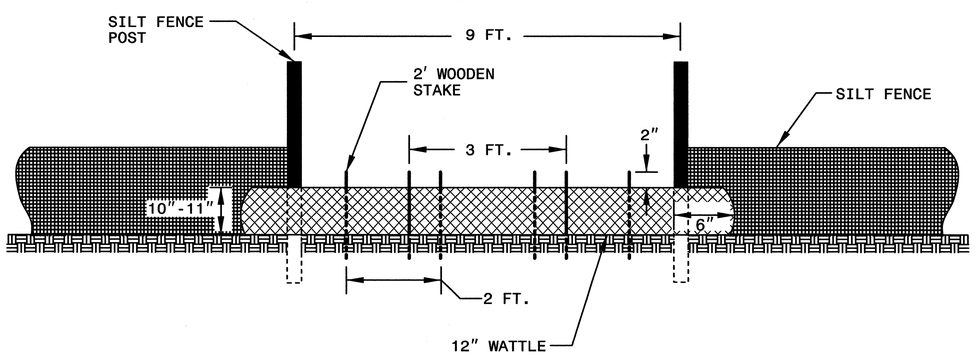
SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

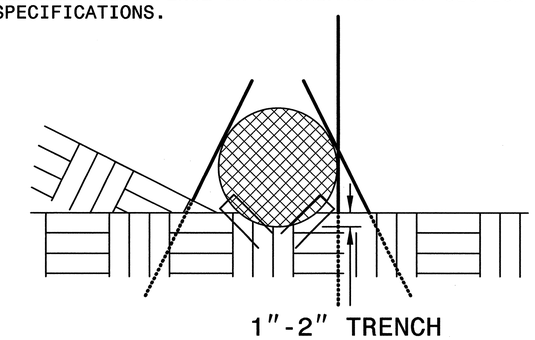
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

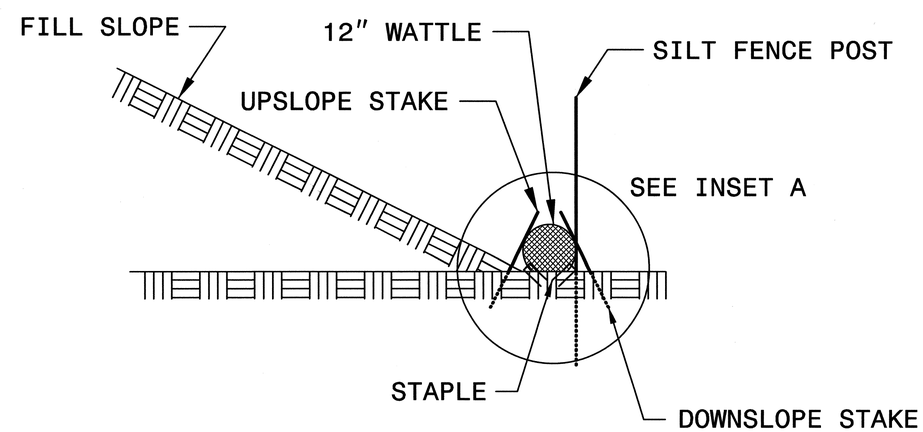
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





SIDE VIEW

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-02B

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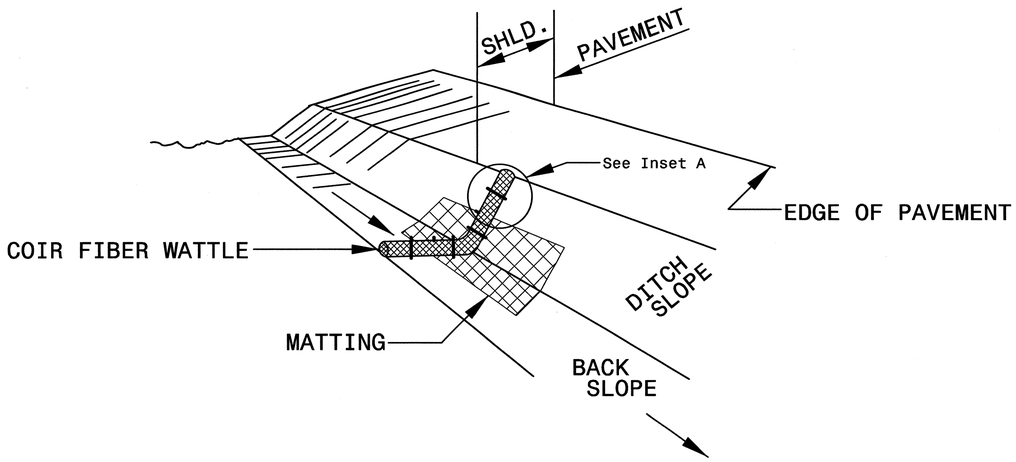
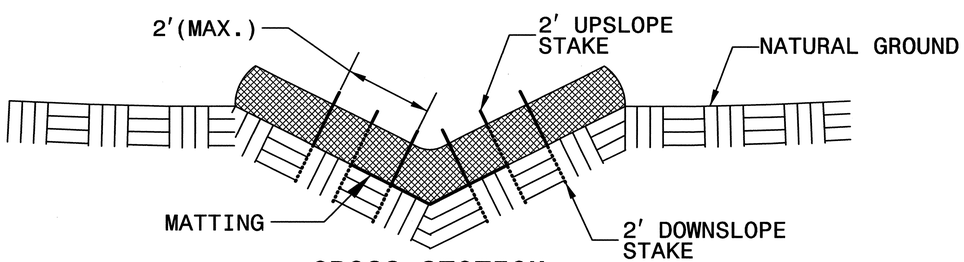
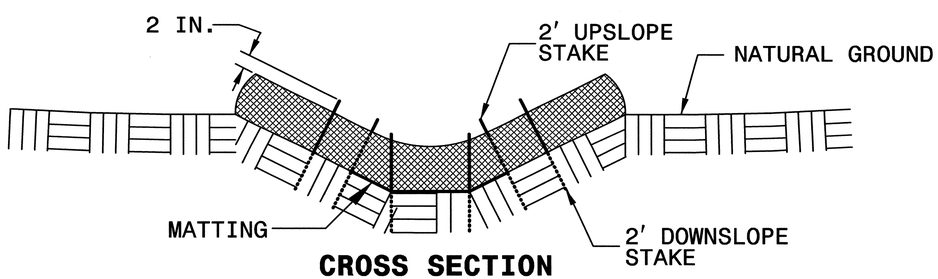
COIR FIBER WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

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.

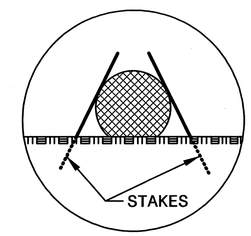
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

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

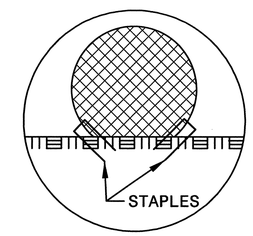
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

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

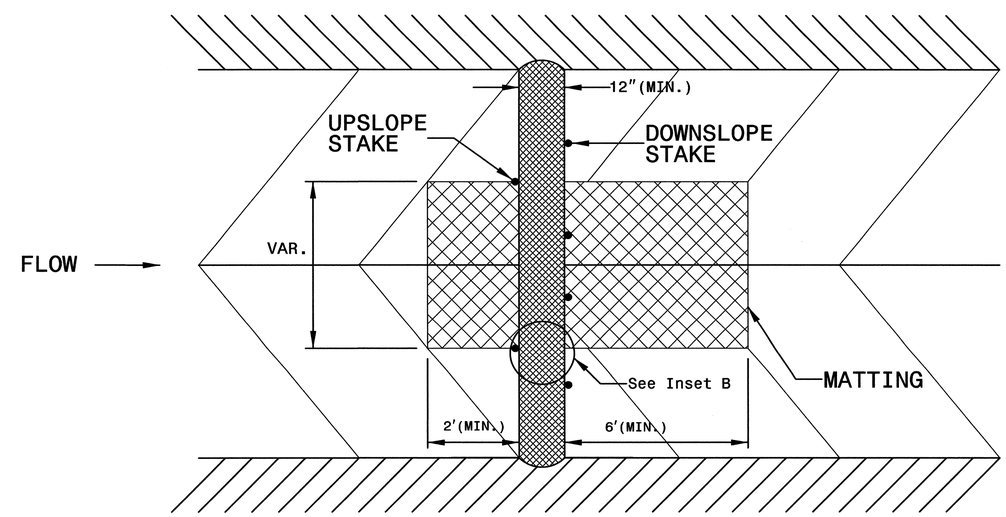
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B



TOP VIEW

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-02C

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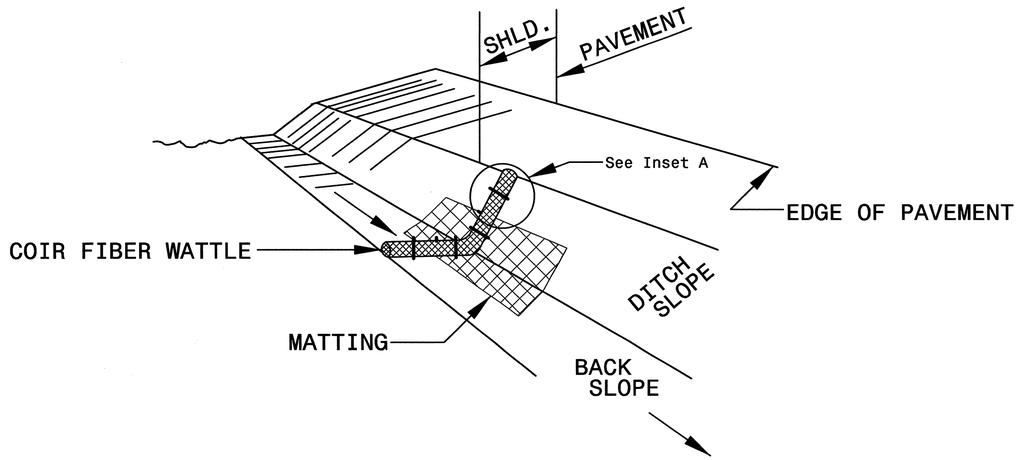
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



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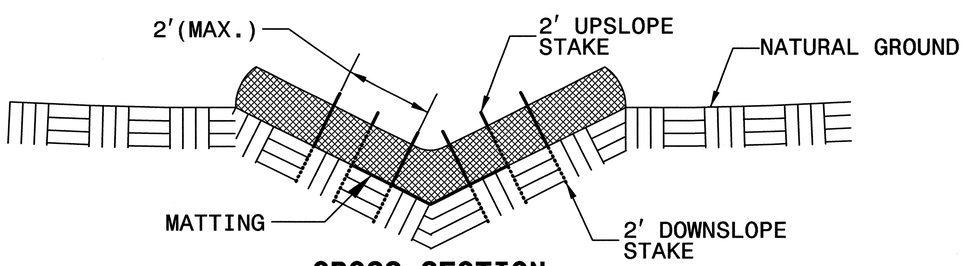
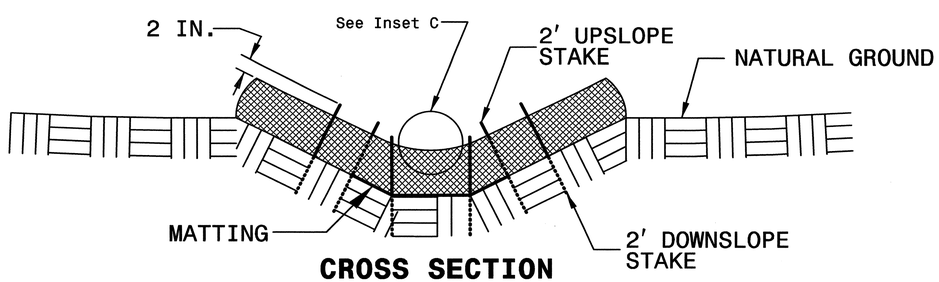


CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

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.

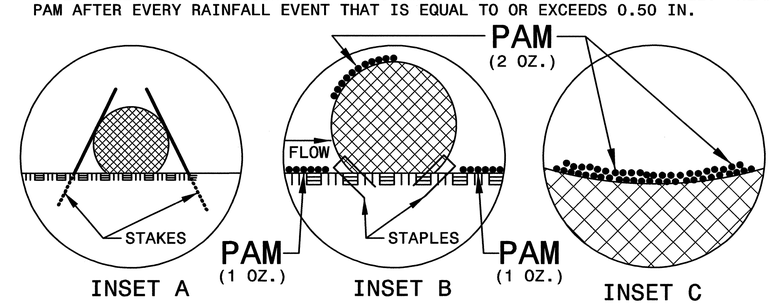
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

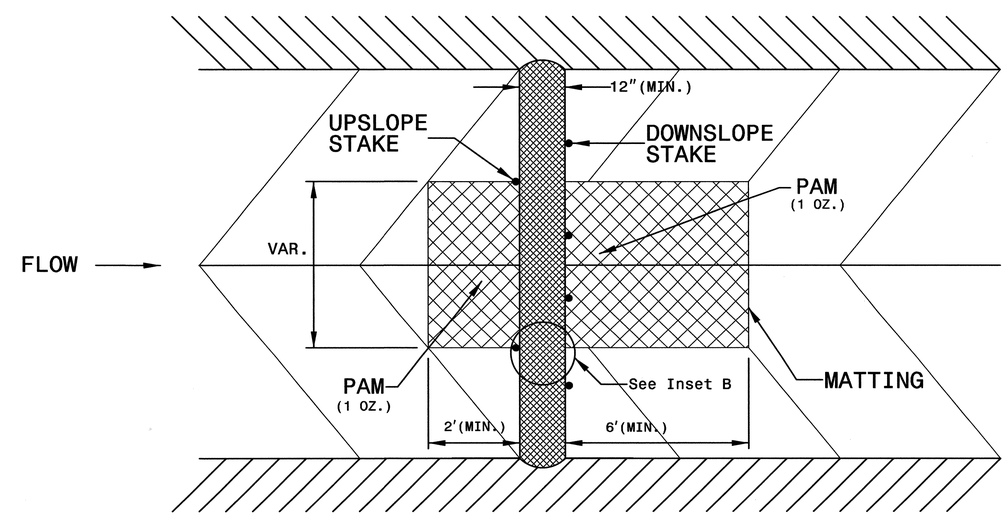
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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 MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.





TOP VIEW

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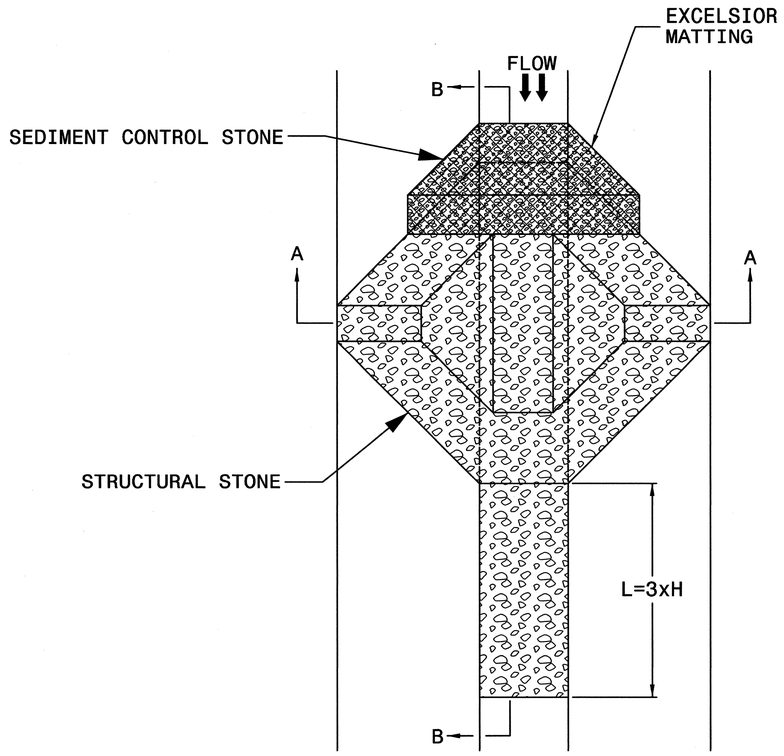
PROJECT REFERENCE NO. P-5208G
SHEET NO. EC-02D
Prepared in the Office of: AECOM
NC FIRM LICENSE No: F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259FAX0

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



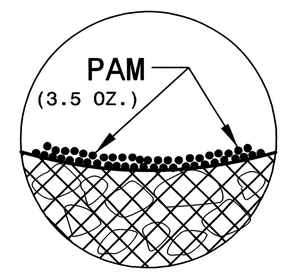
PLAN

NOTES

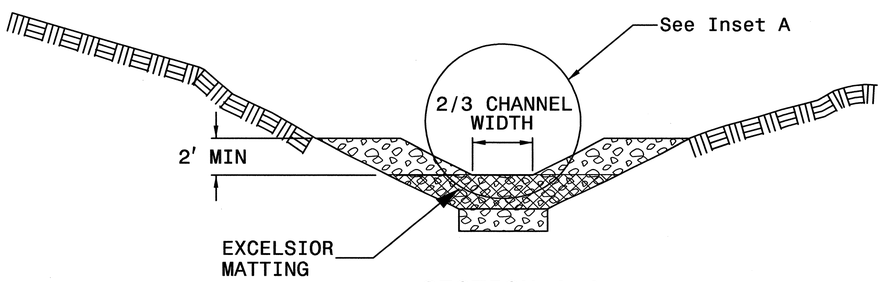
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

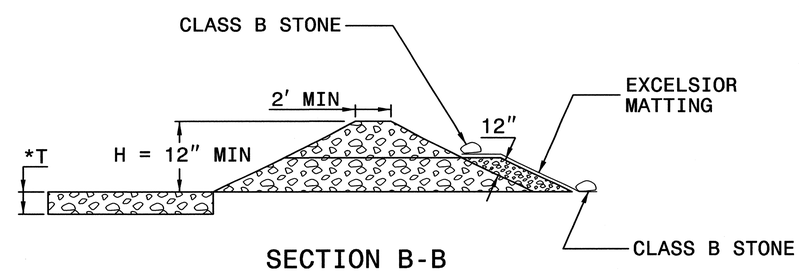
INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

*T = 12" MIN., 18" MAX.

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Raleigh, NC 27610
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DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 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.

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-03A

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NC FIRM LICENSE Nos F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-M1-	10521+00	10524+00	R	465
5	-M1-	10526+30	10531+00	R	645
5	-M1-	10531+00	10533+00	R	310
5	-M1-	10535+00	10537+00	R	310
6	-M1-	10537+00	10545+00	R	1230
6	-M1-	10545+00	10546+25	R	195
6	-M1-	10549+00	10550+00	R	155
7	-M1-	10550+00	10554+75	R	730
7	-M1-	10554+75	10555+28	R	70
7	-M1-	10555+28	10560+00	R	725
7	-M1-	10555+28	10555+28	L	105
7	-M1-	10554+30	10555+28	L	155
7	-M1-	10555+28	10558+00	L	420
8	-M1-	10576+09	10577+00	R	140
8	-M1-	10576+00	10577+00	R	155
8	-M1-	10564+00	10566+10	R	325
9	-M1-	10581+00	10591+00	R	1535
9	-M1-	10591+00	10593+00	R	310
11	-M1-	10612+00	10619+00	R	1075
12	-M1-	10627+00	10632+00	R	770
13	-M1-	10641+00	10642+00	R	155
14	-M1-	10648+00	10659+00	L	1690
15	-M1-	10665+00	10668+00	R	155
15	-M1-	10671+00	10672+00	R	155
15	-M1-	10668+00	10672+00	L	615
16	-M1-	10672+00	10673+00	R	155
16	-M1-	10681+00	10682+00	R	155
16	-M1-	10682+00	10685+00	R	465
				SUBTOTAL	13370

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-M1-	10519+35	10521+00	R	725
5	-M1-	10534+00	10535+00	R	60
13	-M1-	10644+00	10645+00	R	155
13	-M1-	10646+40	10646+00	L	250
15	-M1-	10670+00	10671+00	R	155
16	-M1-	10685+00	10686+00	R	155
16	-M1-	10679+50	10681+00	R	235
				SUBTOTAL	1735
		ADDITIONAL	PSRM TO BE	INSTALLED	50
				TOTAL	1785
				SAY	1785

DGN

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DATE: $$DATE$$
TIME: $$TIME$$
DGN: $$DGN$$

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-03B

Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27610 (919) 854-6200 FAX (919) 854-6259 FAX

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
	FROM SHEET 3A SUBTOTAL				13370
18	-M1-	10709+00	10712+00	R	465
19	-M1-	10715+00	10715+86	R	135
19	-M1-	10715+86	10718+00	L	330
21	-M1-	10754+86	10755+00	R	25
22	-M1-	10755+00	10758+00	R	465
23	-M1-	10769+00	10774+00	R	925
23	-M1-	10776+00	10779+00	R	465
		SUBTOTAL THIS SHEET			2810
				SUBTOTAL	16180
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					83870
				TOTAL	100050
				SAY	100050

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

0041DEL_P10a1
DGN
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DATE: 4/12/2013
TIME: 3:23:51 PM
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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-04/CONST.04

Prepared in the Office of: AECOM — NC FIRM LICENSE No: F-0342, 701 Corporate Center Drive, Suite 475, Raleigh, NC 27607, (919) 854-6200 - (919) 854-6259(FAX)

0041DEL_P10a1

KANNAPOLIS

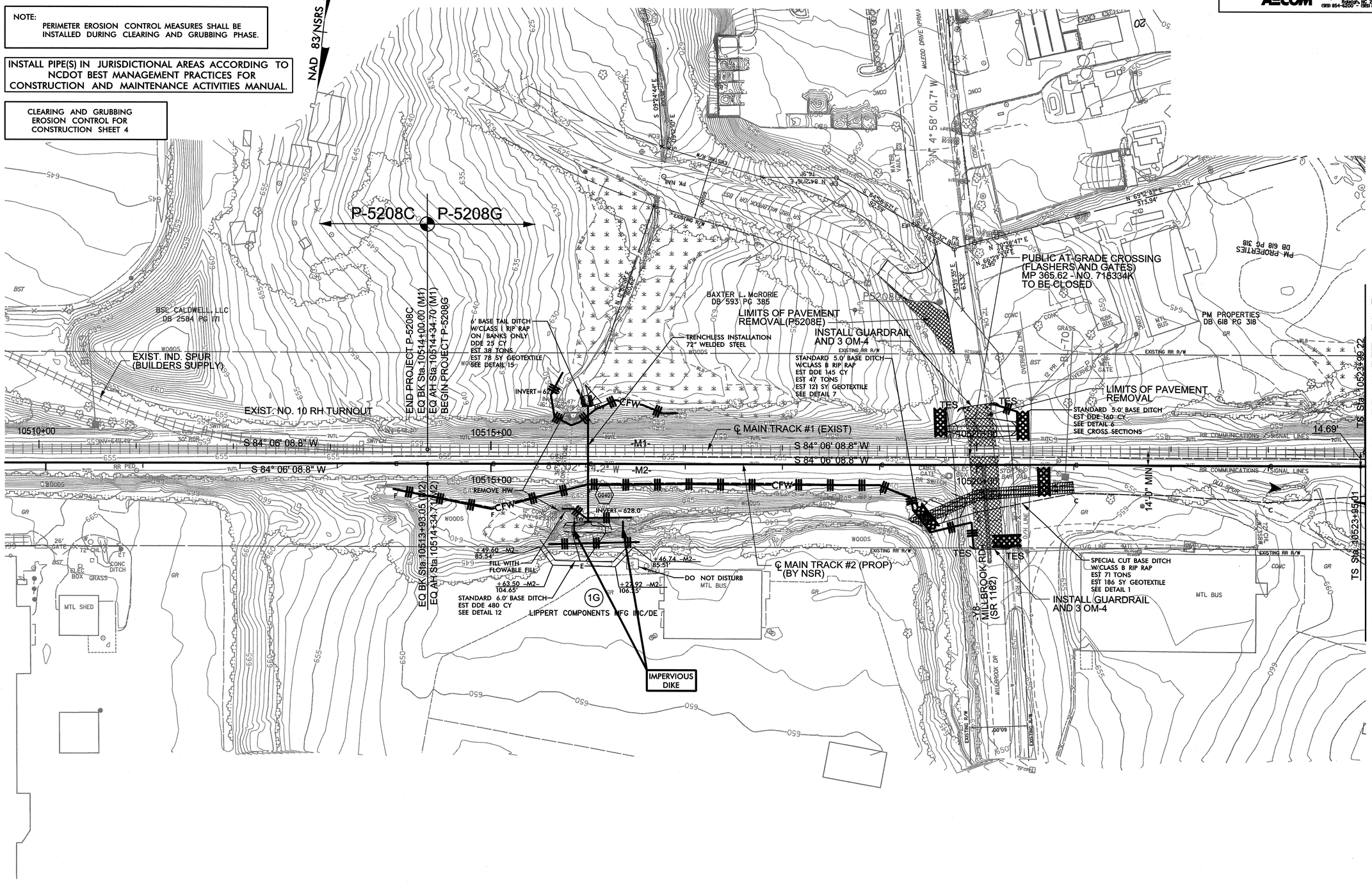
CHARLOTTE

NAD 83/NSRS 2007

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-05/CONST.05

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KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

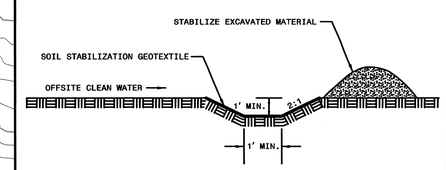
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEAN WATER DIVERSION

CWD CWD CWD CWD

(Not to Scale)



NAD 83/NSRS 2007

MATCHLINE -M1- 10524+00.00 SEE PLAN SHEET EC-4

MATCHLINE -M1- 10537+00.00 SEE PLAN SHEET EC-6

CROSLAND CALDWELL MILLBROOK ROAD, LLC
DB 9001 PG 058 (CABARRUS)
DB 25300 PG 880 (MECKLENBURG)

CABARRUS COUNTY
MECKLENBURG COUNTY

CLASS I RIP RAP ON BANKS ONLY
EST 21 TONS
EST 47 SY GEOTEXTILE

REMOVE HW
FILL WITH FLOWABLE FILL
INVERT= 640.5'

SC Sta. 10527+71.22

14.82' MIN

℄ MAIN TRACK #1 (EXIST)

LIMITS OF PAVEMENT REMOVAL

Y9 PRIVATE RD

5' BASE TAIL DITCH W/CLASS I RIP RAP ON BANKS ONLY
DDE 12 CY
EST 24 TONS
EST 56 SY GEOTEXTILE
SEE DETAIL 16

INVERT= 652.5'

SC Sta. 10534+28.17

SC Sta. 10534+90.17

15.15' MAX

15.11' MAX

10525+00

10530+00

10535+00

-M1-

-M2-

℄ MAIN TRACK #2 (PROP) (BY NSR)

TRENCHLESS INSTALLATION 60" WELDED STEEL

TSD

CWD

CFW

TIE RIP RAP PAD TO RAILSIDE DITCH

SPECIAL CUT BASE DITCH W/CLASS B RIP RAP
EST 142 TONS
EST 371 SY GEOTEXTILE
SEE DETAIL 1

PRIVATE AT-GRADE CROSSING (CROSSBUCKS ONLY)
MP 365.85 - NO. 917037B
TO BE CLOSED WITH CALDWELL PARK DR. EXTENSION, PROJECT P-5208E

LATERAL BASE DITCH W/CLASS B RIP RAP
EST DDE 1665 CY
EST 192 TONS
EST 500 SY GEOTEXTILE
SEE DETAIL 3

SC Sta. 10527+61.01

SC Sta. 10533+81.53

STANDARD 4.0' BASE DITCH W/CLASS B RIP RAP
EST DDE 55 CY
SLOPE = 7.0%
EST 55 TONS
EST 120 SY GEOTEXTILE
SEE DETAIL 9

84.3'

IMPERVIOUS DIKE

IMPERVIOUS DIKE

30' x 15' x 3'
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 5.1

52' x 26' x 3'
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
18 ft. weir
ID 5.2

USER: nwyr
DATE: 4/12/2023
TIME: 3:53:04 PM
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0041DEL_P10a1

DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-06/CONST.06

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KANNAPOLIS

CHARLOTTE

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NAD 83/NSRS 2007

MATCHLINE -M1- 10537+00.00 SEE PLAN SHEET EC-5

MATCHLINE -M1- 10550+00.00 SEE PLAN SHEET EC-7

WILLIAM ARTHUR MYERS, JR. REVOCABLE TRUST
LUCY S. MYERS REVOCABLE TRUST
DB 7454 PG 203

45

40

BL-72

BL-73

CLASS I RIP RAP ON BANKS ONLY EST 13 TONS EST 30 SY GEOTEXTILE

REMOVE HW

FILL WITH FLOWABLE FILL

INVERT = 668.0'

℄ MAIN TRACK #1 (EXIST)

14.22' MIN

14.0' MIN

CS Sta. 10543+91.63

ST Sta. 10547+32.63

-M1-

-M2-

10540+00

10545+00

N 77° 27' 12.4" W

CWD

CFW

℄ MAIN TRACK #2 (PROP) (BY NSR)

CS Sta. 10543+94.76

ST Sta. 10547+35.76

TRENCHLESS INSTALLATION 42" WELDED STEEL

INVERT 663.5'

SPECIAL CUT BASE DITCH SEE DETAIL 2

INSTALL DEFECT DETECTOR ON MAIN TRACK #2 (BY NSR) RELOCATE EQUIPMENT (BY OTHERS)

IMPERVIOUS DIKE

STA. 10539+58

366

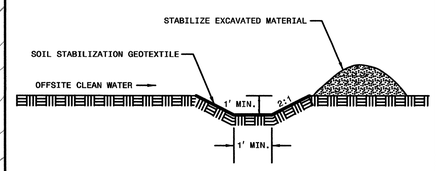
WOODS

FALLOW

CLEAN WATER DIVERSION

CWD CWD CWD CWD

(Not to Scale)



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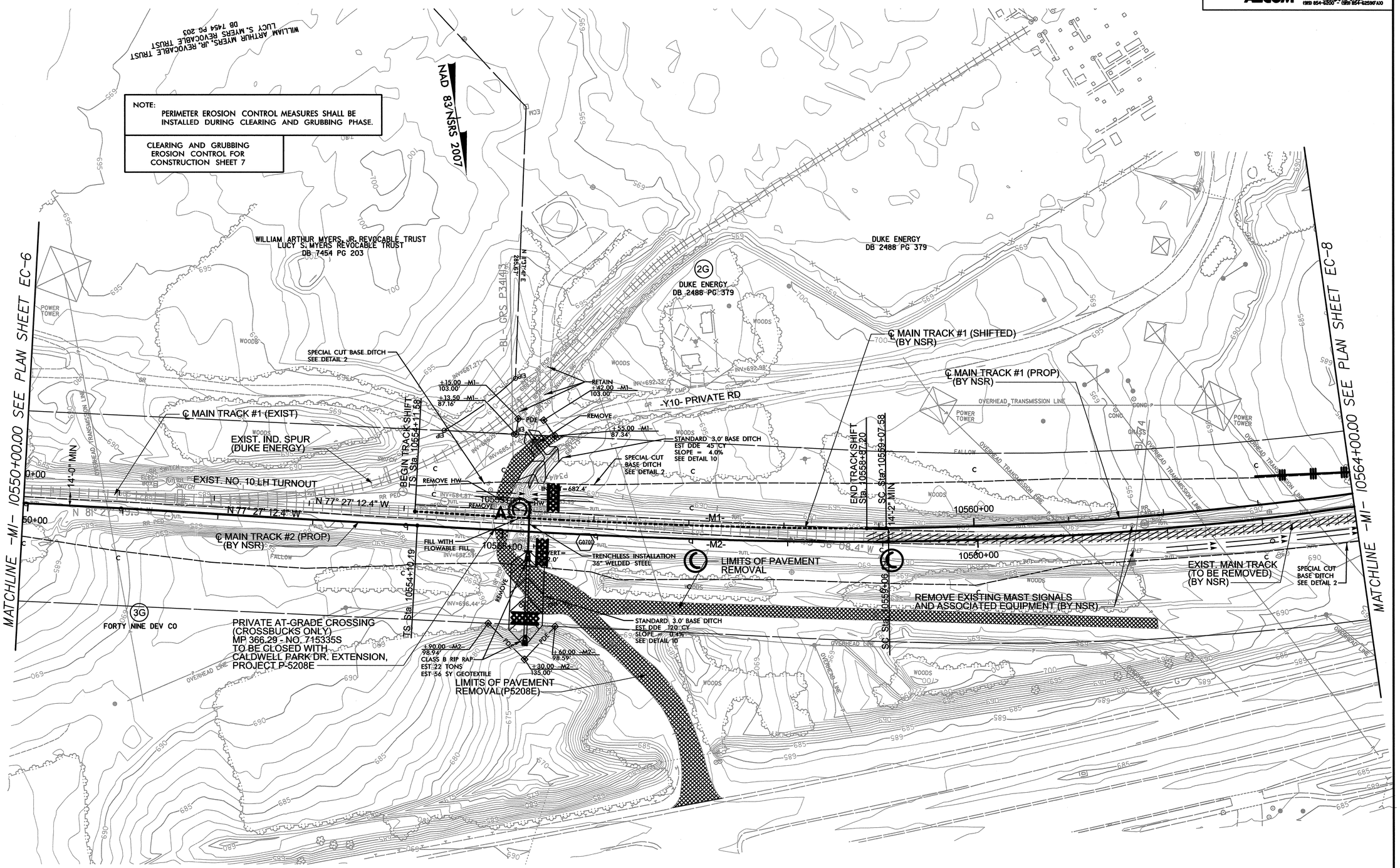
0041DEL_P10a1

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-07/CONST.07

Prepared in the Office of: AECOM 701 Corporate Center Drive, Suite 475 Raleigh, NC 27610 (919) 854-6200 FAX (919) 854-6259 NC FIRM LICENSE No: F-0342



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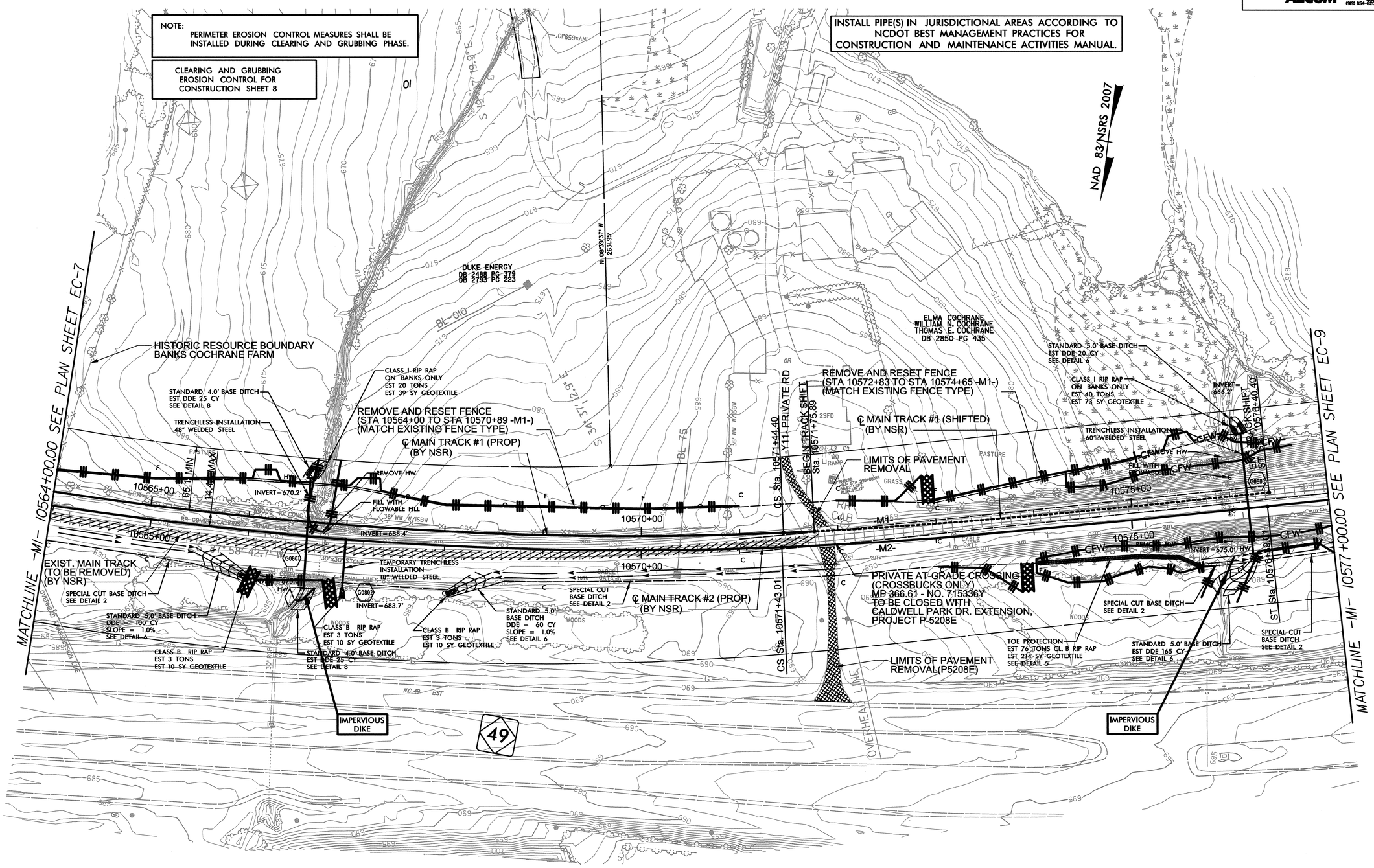
0041DEL_P10a1

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-08/CONST.08

Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27610 (919) 854-6200 - FAX 854-6259 FAX



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0041DEL_P10a1

DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-09/CONST.09

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KANNAPOLIS

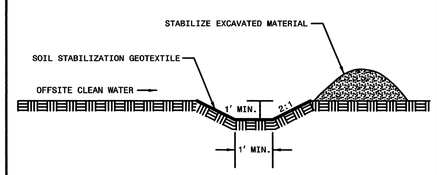
CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9

CLEAN WATER DIVERSION

(Not to Scale)



NAD 83/NSRS 2007

MATCHLINE -M1- 10577+00.00 SEE PLAN SHEET EC-8

MATCHLINE -M1- 10591+00.00 SEE PLAN SHEET EC-10

ELMA COCHRANE
WILLIAM N. COCHRANE
THOMAS E. COCHRANE
DB 2850 PG 435

HISTORIC RESOURCE BOUNDARY
BANKS COCHRANE FARM

JOHN B. STROUP
HAZEL H. STROUP

BL-76

BL-77

FALLOW

WOODS

℄ MAIN TRACK #1 (EXIST)

14'-0" MIN

10580+00

10585+00

10590+00

S 76° 33' 16.1" W

-M1-

-M2-

CFW

TSD

CWD

℄ MAIN TRACK #2 (PROP)
(BY NSR)

TOE PROTECTION
EST 92 TONS CLASS B RIP RAP
EST 259 SY GEOTEXTILE
SEE DETAIL 5

56' x 28' x 3'
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
20 ft. weir
ID 9.1

CONC

8" CHL

18" RCP

N.C. 49

OVERHEAD LINE

49

USER: nagy
DATE: 4/12/2013
TIME: 3:34:45 PM
DGN: R:\Environment\Design\P-5208G_REV-EC09.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-10/CONST 10

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0041DEL_P10a1

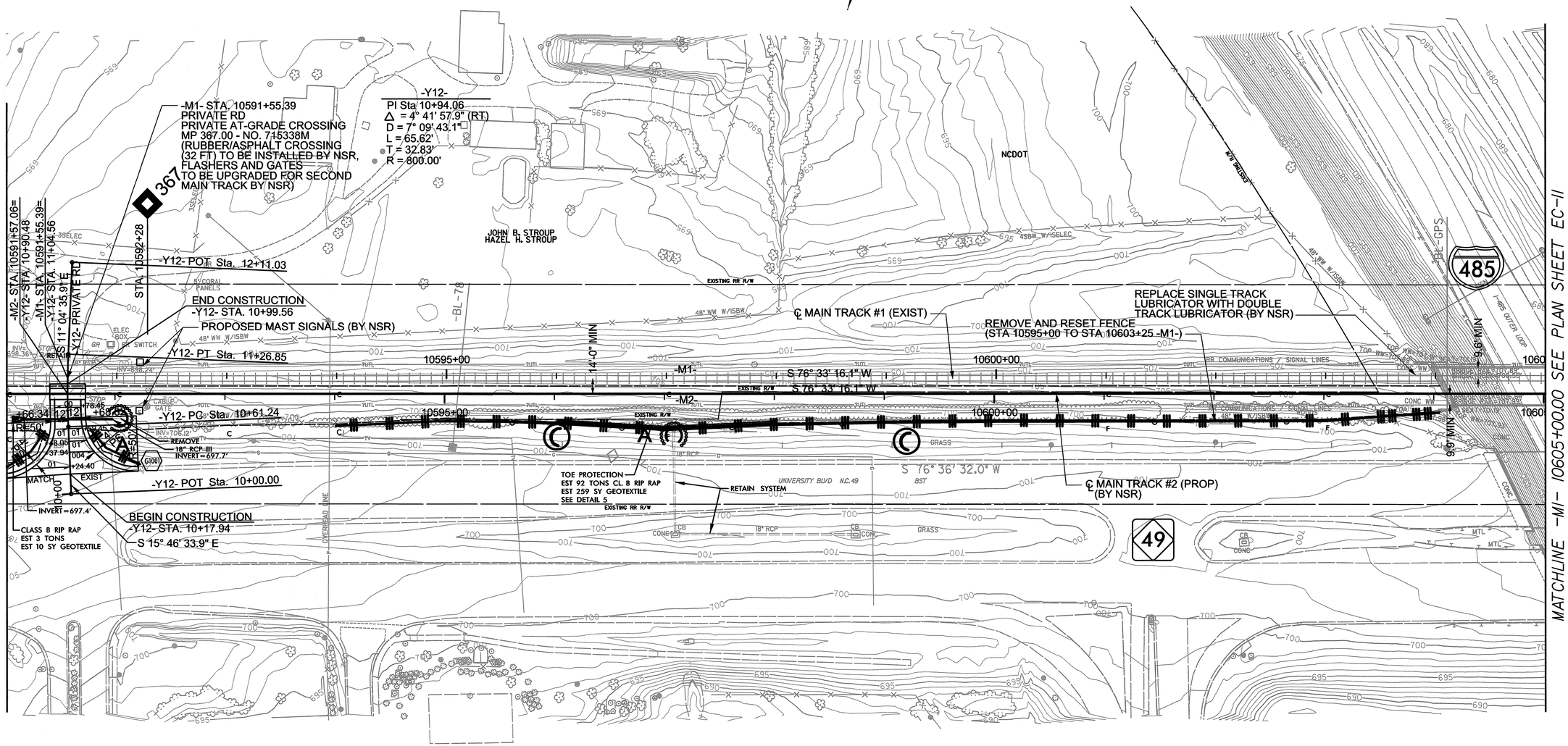
DGN

KANNAPOLIS ← → CHARLOTTE

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

NAD 83/NSRS 2007



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0041DEL_P10a1

DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-11/CONST JI

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KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

NAD 83/NSRS 2007

MATCHLINE -M1- 10605+00.00 SEE PLAN SHEET EC-10

MATCHLINE -M1- 10619+00.00 SEE PLAN SHEET EC-12

EXISTING BALLAST DECK UG BRIDGE (BRIDGE NO. 367.25)

485

BACK CREEK PRESBYTERIAN CHURCH
DB 7996 PG 427

℄ MAIN TRACK #1 (EXIST)

EXISTING RR R/W

EXISTING R/W

TS Sta. 10609+00.17

BL-19

REMOVE AND RESET FENCE
(STA 10608+13 TO STA 10615+44 -M1-)

STANDARD 3' BASE DITCH
DDE 35 CY
SEE DETAIL 10

SC Sta. 10613+93.17

CLASS B RIP RAP
EST 11 TONS
EST 28 SY GEOTEXTILE

TRENCHLESS INSTALLATION
36" WELDED STEEL

INVERT=704.5'

FILL WITH FLOWABLE FILL

14.0' MIN

14.61' MAX

S 76° 33' 16.1" W

10610+00

10615+00

-M1-

-M2-

INVERT=705.8'

NCDOT
DB 7462 PG 155

RETAIN

A

B

S 71° 54' 11.8" W

CONC & STEEL TRUSSEL

TS Sta. 10609+12.22

SC Sta. 10613+15.22

100.6' MIN

℄ MAIN TRACK #2 (PROP)
(BY NSR)

49

UNIVERSITY CITY BLVD NC 49

SPECIAL CUT BASE DITCH
SEE DETAIL 2

SPECIAL CUT BASE DITCH
SEE DETAIL 2

OVERHEAD LINE

GRASS

WOODS

BST

EXISTING R/W

EXISTING RR R/W

USER: rmw
DATE: 4/12/2013
TIME: 3:43:51 PM
DGN: R:\Environmental\Design\P-5208G_REV-EC11.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-12/CONST J2

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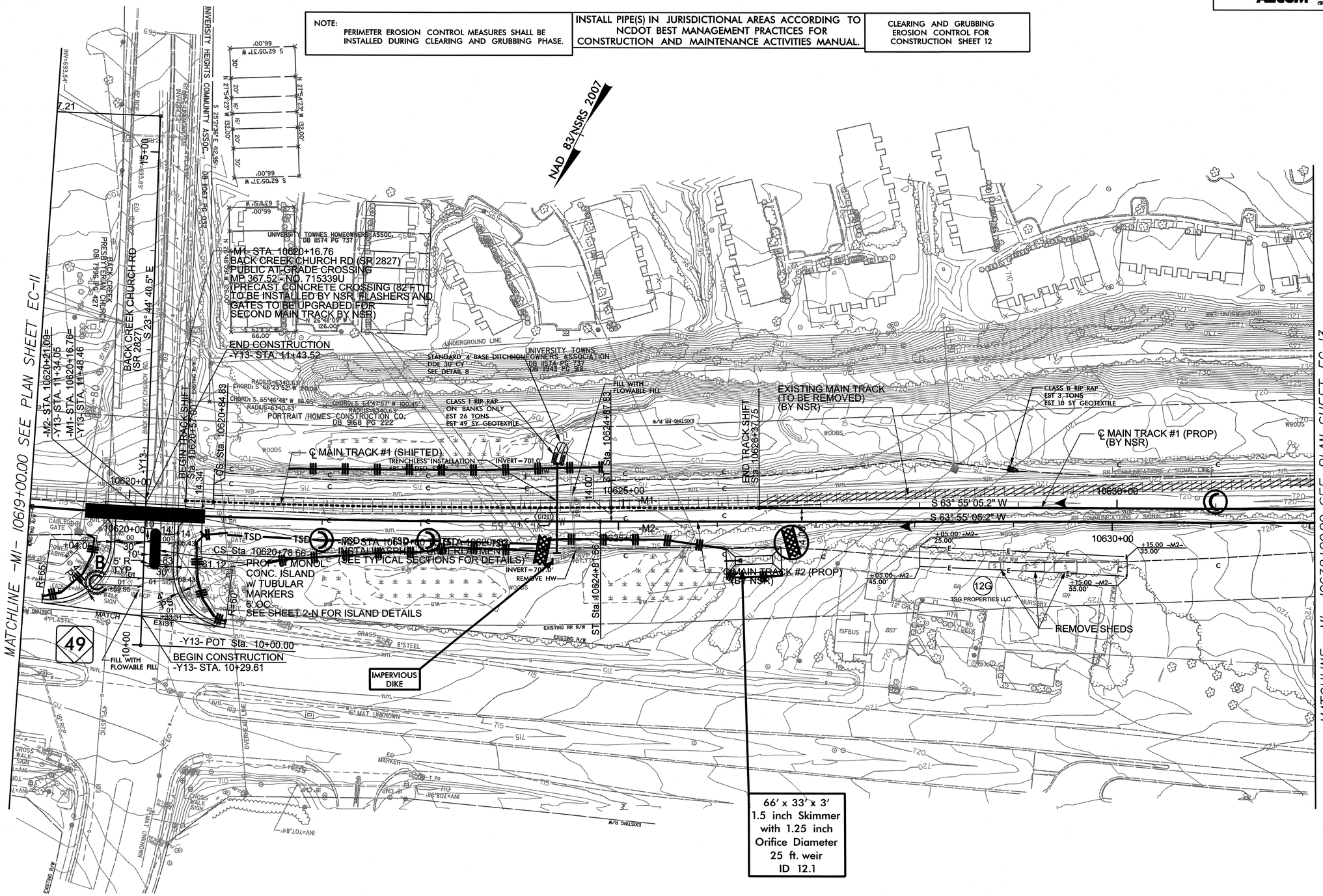
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12



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0041DEL_P10a1

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-13/CONSTJ3

Prepared in the Office of: AECOM
NC FIRM LICENSE No: F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

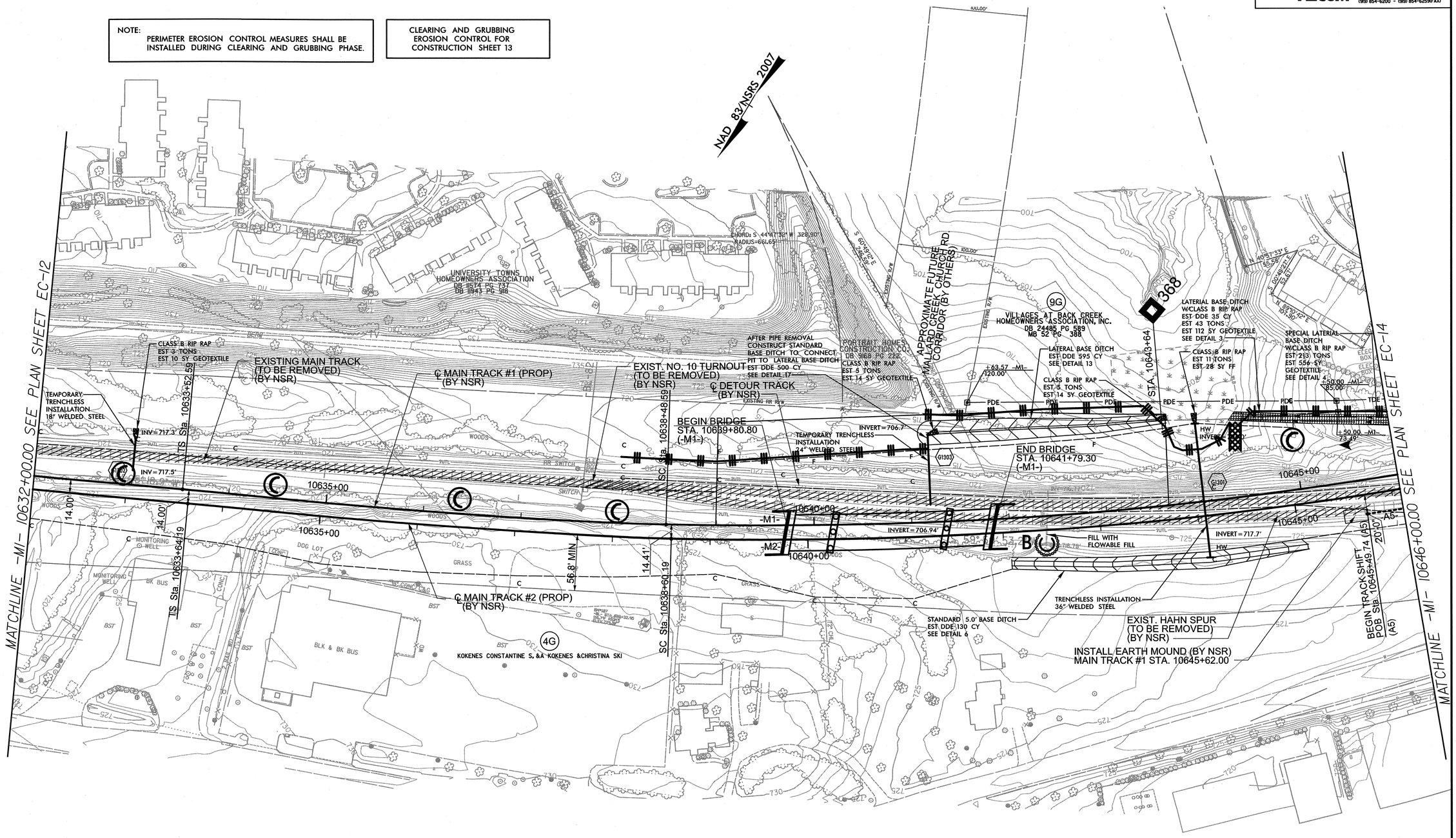
0041DEL_P10a1
0001ADD_P10a1

KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-14/CONST14

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0041DEL_P10a1

DGN

KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14

NAD 83/NSRS 2007

IP MERRYHUE FARMS LLC

N 81°42'57" E 752.10'

N 49°10'45" W 197.58'

CHORD: N 89°52'23" W 15.04'
RADIUS=11.50'

N 49°16'23" E 13.34'
N 49°16'23" E 22.00'
N 49°16'22" E 31.00'
S 49°16'23" W
N 49°17'05" E 8.35'
S 40°42'55" E 13.50'
64.30'
N 49°17'05" E
S 50°06'36" E 43.38'
N 49°17'41" E 108.00'
S 40°46'49" W 53.38'
S 40°46'49" W 25.98'

9G
VILLAGES AT BACK CREEK HOMEOWNERS ASSOCIATION, INC.
DB 24485 PG 589
MB 52 PG 388

SPECIAL LATERAL BASE DITCH
W/CLASS B RIP RAP
EST 213 TONS
EST 556 SY GEOTEXTILE
SEE DETAIL 4

+40.00 -M1-
110.00'
+50.00 -M1-
57.92'
+00.00 -M1-
65.00'
+56.50 -M1-
65.32'
+00.00 -M1-
65.00'

21G
REDUS NC HOUSING, LLC
DB 25326 PG 858
MB 48 PG 930

+80.00 -M1-
115.00'

CLASS B RIP RAP
EST 3 TONS
EST 10 SY GEOTEXTILE

TEMPORARY TRENCHLESS INSTALLATION
18" WELDED STEEL

+90.00 -M1-
66.93'
+00.00 -M1-
65.00'

CLASS B RIP RAP
EST 11 TONS
EST 28 SY GEOTEXTILE

+00.00 -M1-
55.00'

SPECIAL CUT BASE DITCH
SEE DETAIL 2

+00.00 -M1-
53.62'

℄ MAIN TRACK #1 (PROP)
(BY NSR)

BEGIN TRACK SHIFT
Sta 10648+68.21

G1402
INV=720.5'
INV=724.0' FALLOW
G1401
HW
INV=725.6'
INV=725.0'
-M1-
-M2-
15.5' MAX
52.3' MIN

10650+00
10655+00

MATCHLINE -M1- 10646+00.00 SEE PLAN SHEET EC-13

MATCHLINE -M1- 10659+00.00 SEE PLAN SHEET EC-15

S 50° 02' 20.8" W
-A5-

TIE TO EXISTING TRACK
END TRACK SHIFT
PC Sta 10647+14.74 (A5)

℄ DETOUR TRACK
(BY NSR)

℄ HAHN SPUR (EXIST)

SPECIAL CUT DITCH
FROM STA 10649+00
TO STA 10652+00 -M1G- RT
SEE CROSS SECTIONS

TRENCHLESS INSTALLATION
36" WELDED STEEL

℄ MAIN TRACK #2 (PROP)
(BY NSR)

SPECIAL CUT BASE DITCH
SEE DETAIL 2

EXIST. HAHN SPUR
(TO BE RETAINED)

EXIST. MAIN TRACK
(TO BE REMOVED)
(BY NSR)

OLD CONCORD RD (SR 2426)

OLD CONCORD RD. BST

CONC BARRIER

GR RAMP

30' CONC CBG

OVERHEAD LINE

RR COMMUNICATIONS / SIGNAL LINES

RR SWITCH

UNDERGROUND LINE

CONC PLANT

MTL BUSS

MON WELL

OO TANKS

CABLE GATE

6' PVC

8' PVC

USER: nagr
DATE: 4/12/2013
TIME: 3:03:29 PM
DGN: R:\Environmental\Design\P-5208G_REV-EC14.dgn

0041DEL_P10a1

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-15/CONST J5

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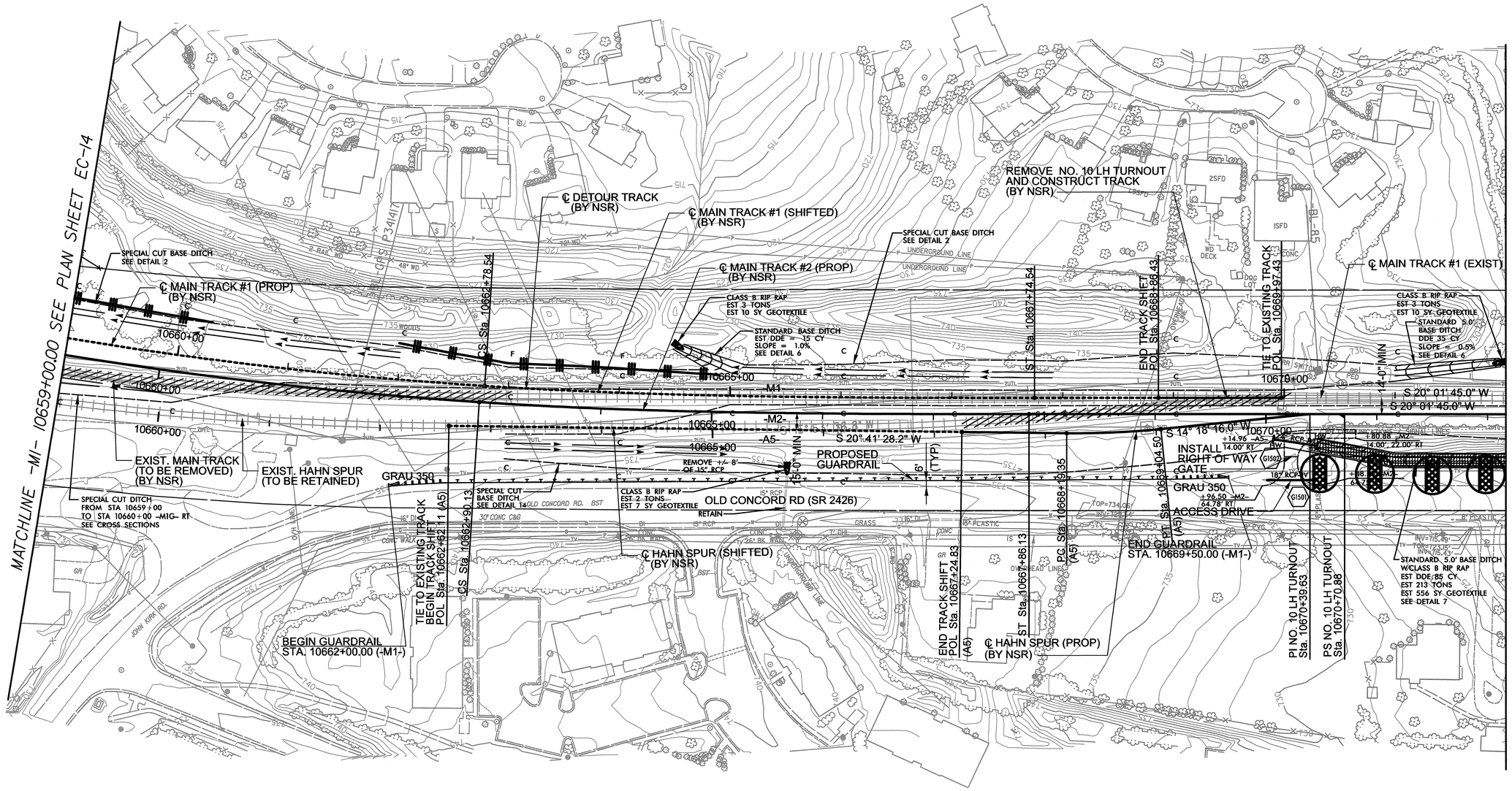
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 15

NAD 83/NSRS 2007



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0001ADD_P10a1

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-16/CONST.16

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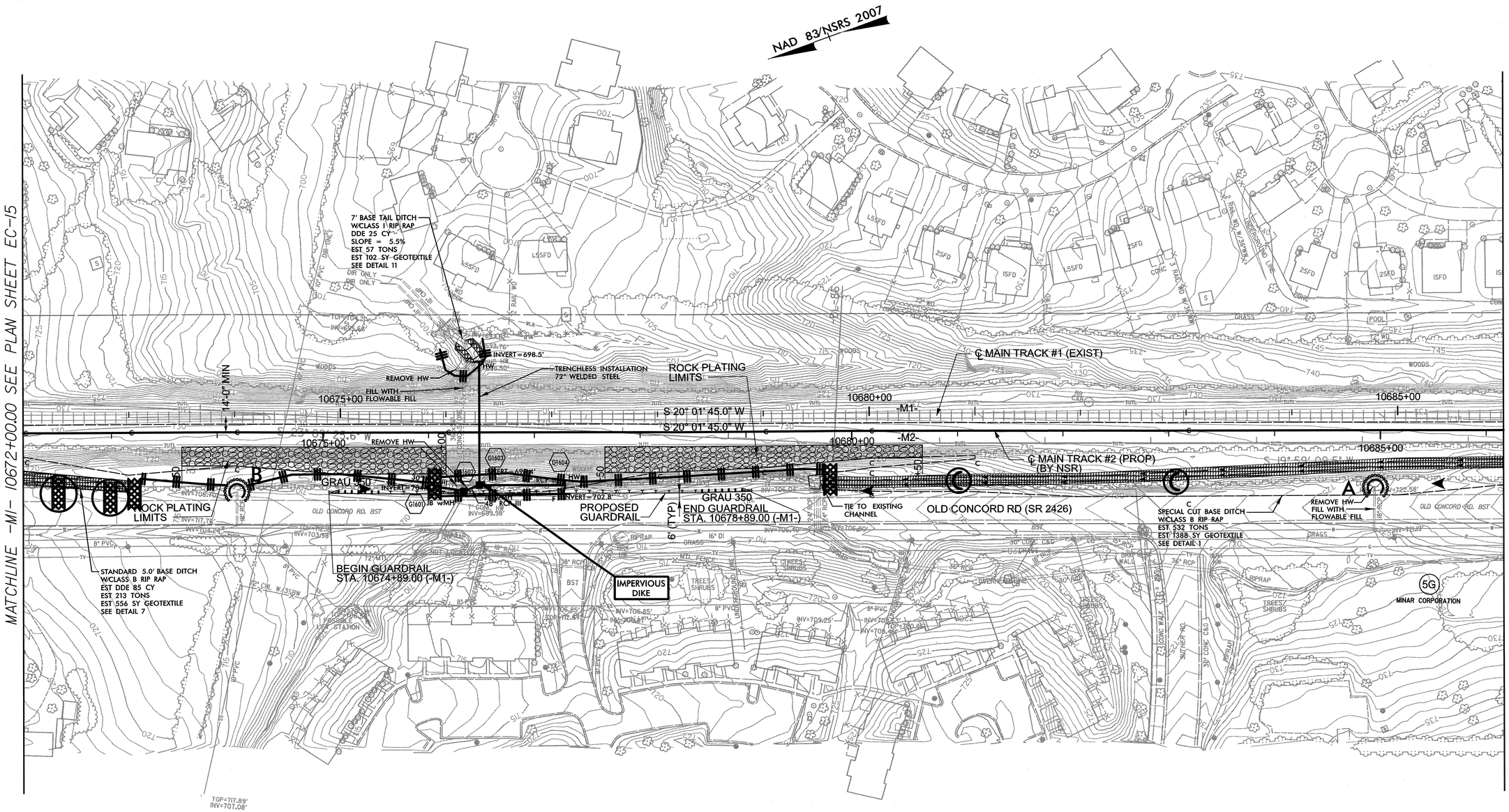
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16



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0041DEL_P10a1

DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-17/CONST.17

Prepared in the Office of: AECOM NC FIRM LICENSE No: F-0342 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 - (919) 854-6259 FAX

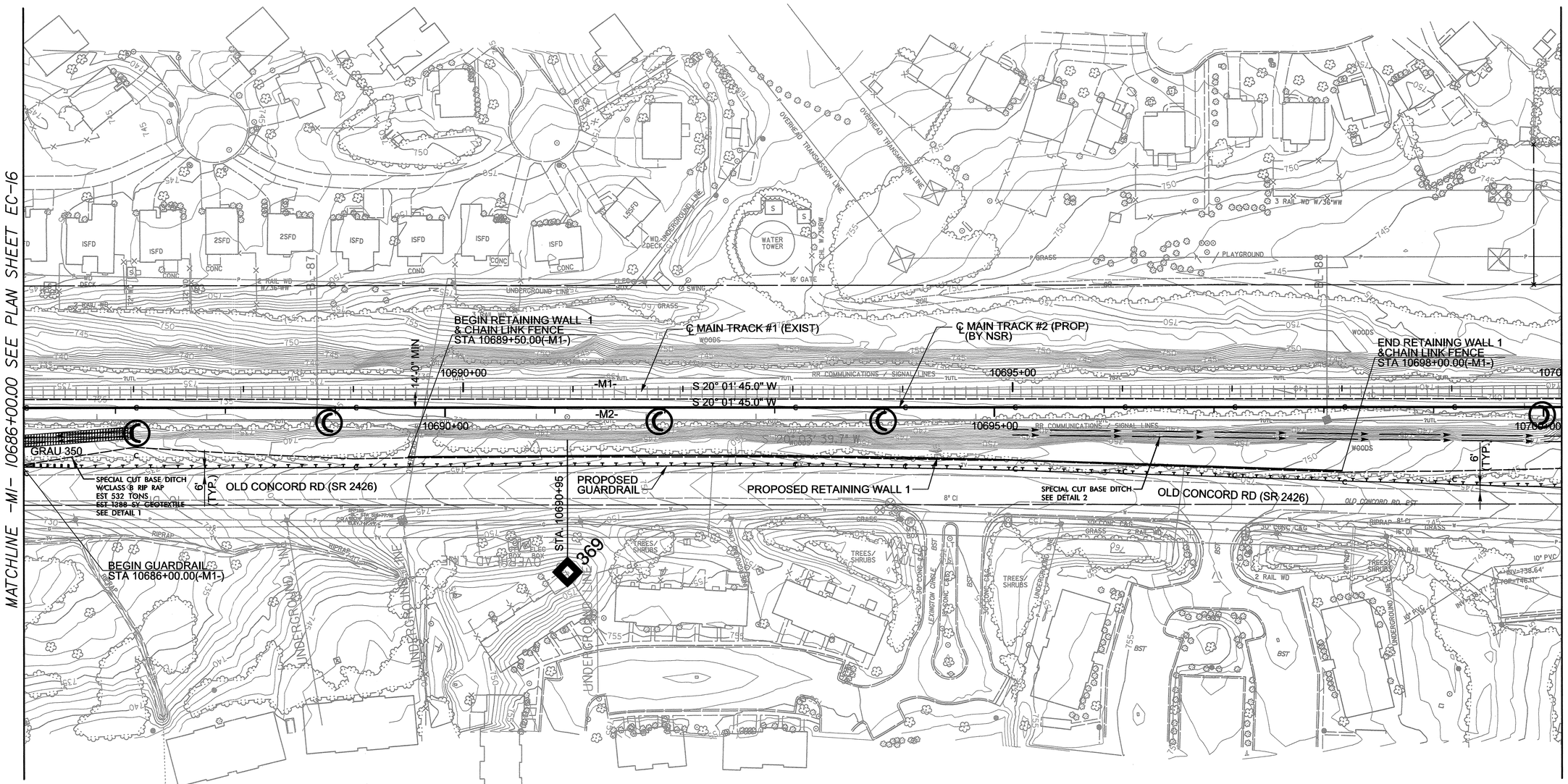
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-18/CONST J8

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0041DEL_P10a1

DGN

KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

INSTALL PIPE(S) IN JURISDICTIONAL AREAS ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

NAD 83/NSRS 2007

MATCHLINE -M1- 10700+00.00 SEE PLAN SHEET EC-17

MATCHLINE -M1- 10714+00.00 SEE PLAN SHEET EC-19

-M1- STA. 10708+14.91
MCLEAN ROAD (SR 2831) PUBLIC AT-GRADE CROSSING
MP 369.29 - NO. 715343J
(PRECAST CONCRETE CROSSING (74 FT) TO BE INSTALLED BY NSR, FLASHERS AND GATES TO BE UPGRADED FOR SECOND MAIN TRACK BY NSR)

-Y14-
PI Sta 11+10.29
Δ = 5° 58' 34.3" (LT)
D = 3° 49' 11.0"
L = 156.46'
T = 78.30'
R = 1,500.00'

McLEAN ROAD BAPTIST CHURCH INC
DB 3090 PG 184

McLEAN RD (SR 2831)

IMPERVIOUS DIKE

HILLTOP AT FAIRES FARM HOMEOWNERS ASSOCIATION, INC
DB 9181 PG 442

STANDARD 4.0' BASE DITCH
EST DDE 55 CY
SLOPE = 0.5%
SEE DETAIL 8

-Y14- POT Sta. 12+86.73

S 86° 16' 26.9" E

FALLOW

WOODS

℄ MAIN TRACK #1 (EXIST)

TS Sta. 10708+65.47

-M1- STA. 10708+14.91=
-Y14- STA. 11+41.69
END CONSTRUCTION
-Y14- STA. 11+36.64

-M2- STA 10707+82 TO STA 10708+96
INSTALL ASPHALT UNDERLAYMENT
(SEE TYPICAL SECTIONS FOR DETAILS)

SC Sta. 10712+37.47
14'-7" MAX

EXISTING RR R/W

INVERT = 716.8'

14'-0" MIN

10705+00

10710+00

-Y14- P1 Sta. 11+88.45

-M1-

S 20° 01' 45.0" W

S 20° 01' 45.0" W

-M2-

INVERT = 735.0'

10710+00

TS Sta. 10708+82.40

PROPOSED GUARDRAIL

GRAU 350

SPECIAL CUT BASE DITCH
SEE DETAIL 2

INVERT = 708.6'

-M2- STA. 10708+35.12=
-Y14- STA. 11+26.50

INVERT = 732.0'

TRENCHLESS INSTALLATION
54" WELDED STEEL

CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE

REMOVE HW

WITH TABLE FILL

60' TAPER

REMOVE

MATCH

2' RJ TYP

EXIST

PROP. 6" MONOL. CONC. ISLAND
w/ TUBULAR MARKERS 6' OC
SEE SHEET 2-N FOR ISLAND DETAILS
BEGIN CONSTRUCTION
-Y14- STA. 10+39.77

℄ MAIN TRACK #2 (PROP)
(BY NSR)

ELLEN ESTELLE HUNT
DB 1135 PG 011

SPECIAL CUT BASE DITCH
SEE DETAIL 2

END GUARDRAIL
STA. 10701+50.00(-M1-)

OLD CONCORD RD (SR 2426)

CLASS B RIP RAP
EST 7 TONS
EST 22 SY GEOTEXTILE

CLASS 1 RIP RAP
EST 21 TONS
EST 47 SY GEOTEXTILE

-Y14- PC Sta. 10+31.99

-Y14- POT Sta. 10+00.00

EXISTING RR R/W

OLD CONCORD RD (SR 2426)

MFREVF-PIEDMONT LLC &
MESIROW FINANCIAL REAL ESTATE VALUE FUND LP
DB 26501 PG 077

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-19/CONST J9

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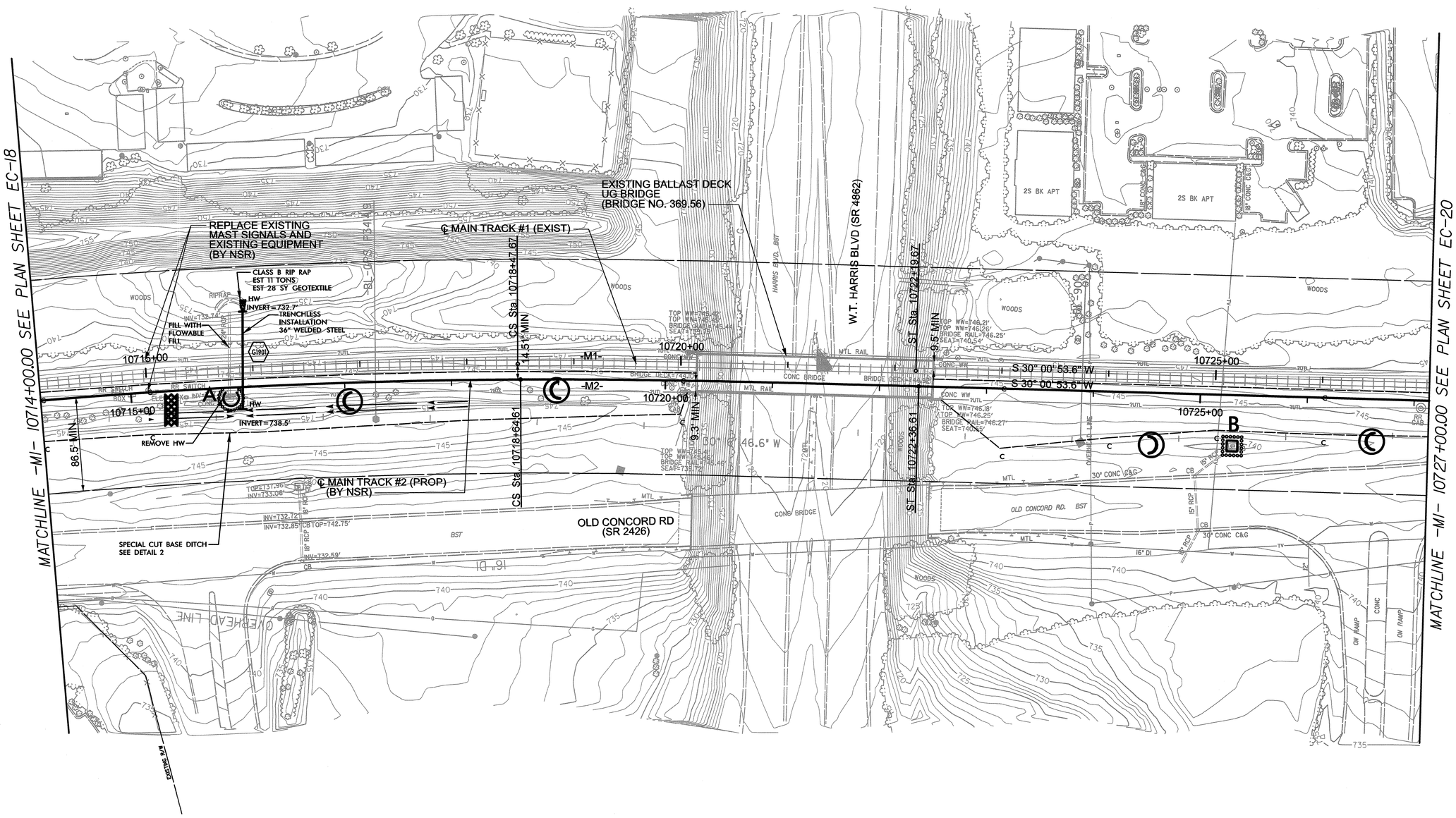
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 19

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-20/CONST.20

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KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20

NAD 83/NSRS 2007

MATCHLINE -M1- 10727+00.00 SEE PLAN SHEET EC-19

MATCHLINE -M1- 10741+00.00 SEE PLAN SHEET EC-21

℄ MAIN TRACK #1 (EXIST)

℄ MAIN TRACK #2 (PROP) (BY NSR)

OLD CONCORD RD (SR 2426)

14'-0" MIN

S 30° 00' 53.6" W -M1-

S 30° 00' 53.6" W -M2-

S 27° 37' 28.7" W

S 30° 02' 53.2" W

10730+00

10735+00

10740+00

RR COMMUNICATIONS / SIGNAL LINES

WOODS

BK BUS

GUARD POST

CONC

GRASS

BK WALL

18" CONC C&G

15" RCP

18" RCP

BST

GENERATOR

ELEC BOX

AIR

LIGHT POLE

TREES

SOIL

GR

OVERHEAD LINE

16" DI

RR CAB

OLD CONCORD RD. BST

GAS PUMPS

TANK

IS MAS BUS

NEWELL BAPTIST CH. RD.

6" PVC

DATA
USER: rmm
DATE: 4/12/2013
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0041DEL_P10a1

0041DEL_P10a1

DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-21/CONST.21

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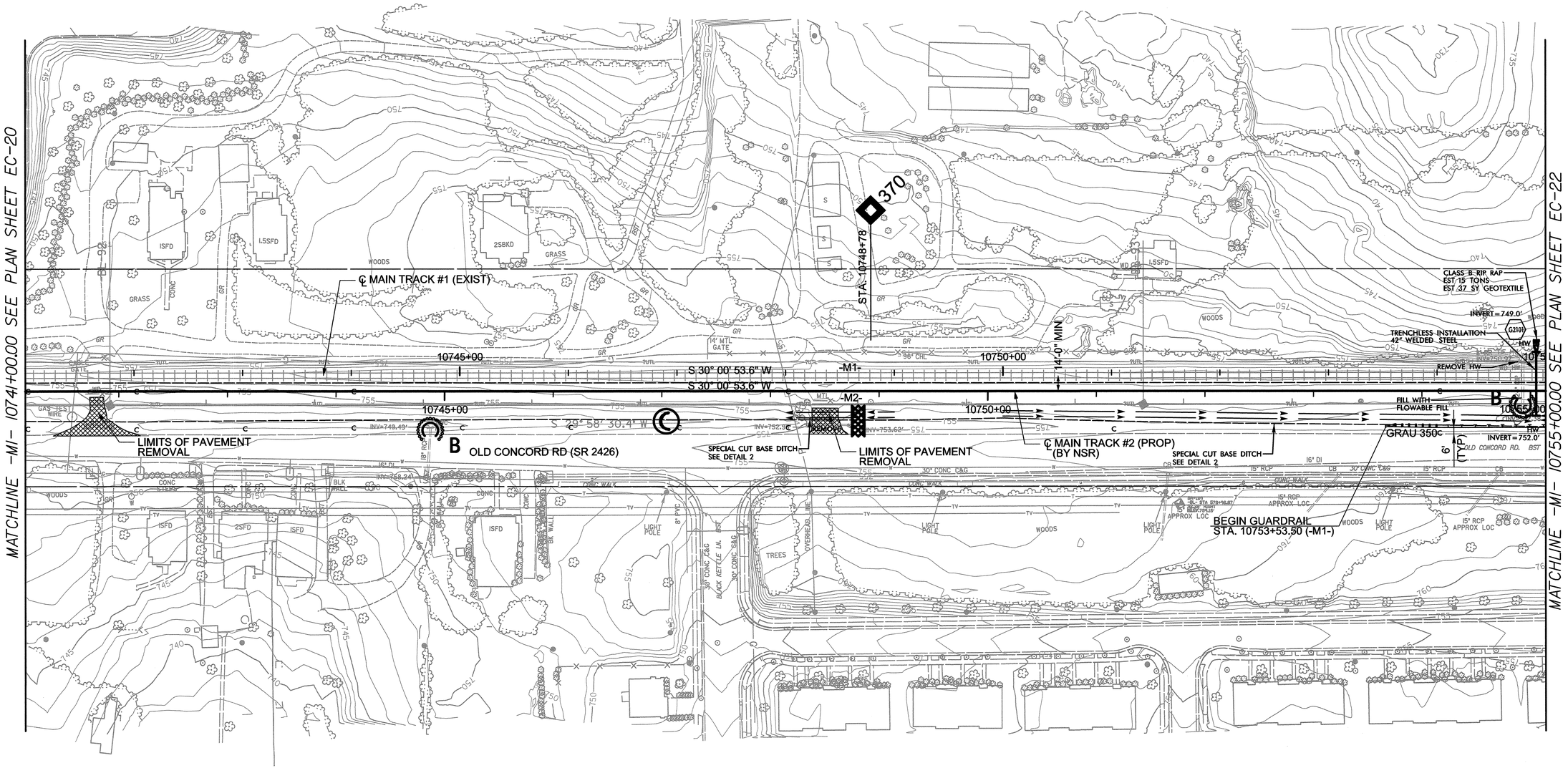
KANNAPOLIS ← → CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-22/CONST.22

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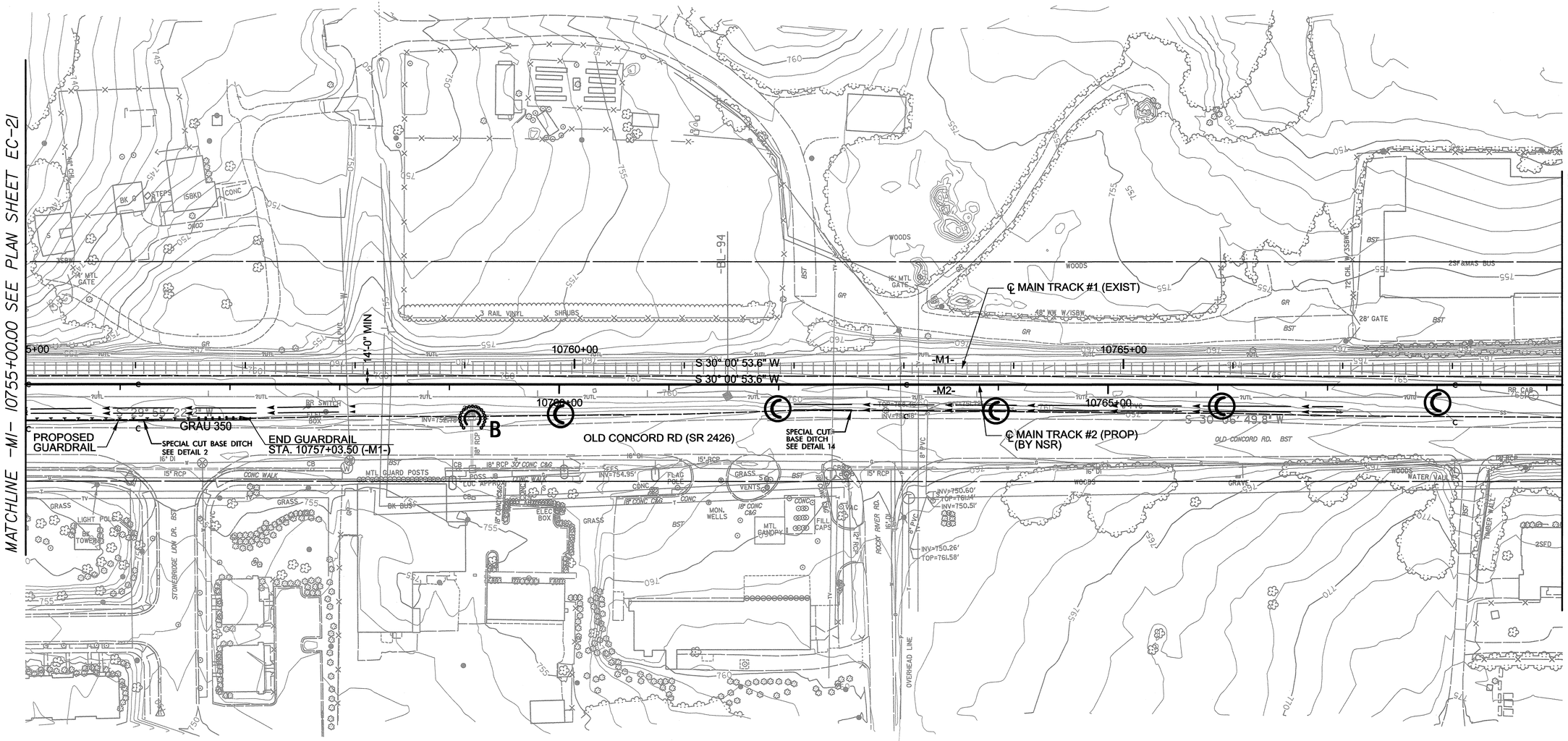
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 22

NAD 83/NSRS 2007



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0041DEL_P10a1

0041DEL_P10a1

DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-23/CONST.23

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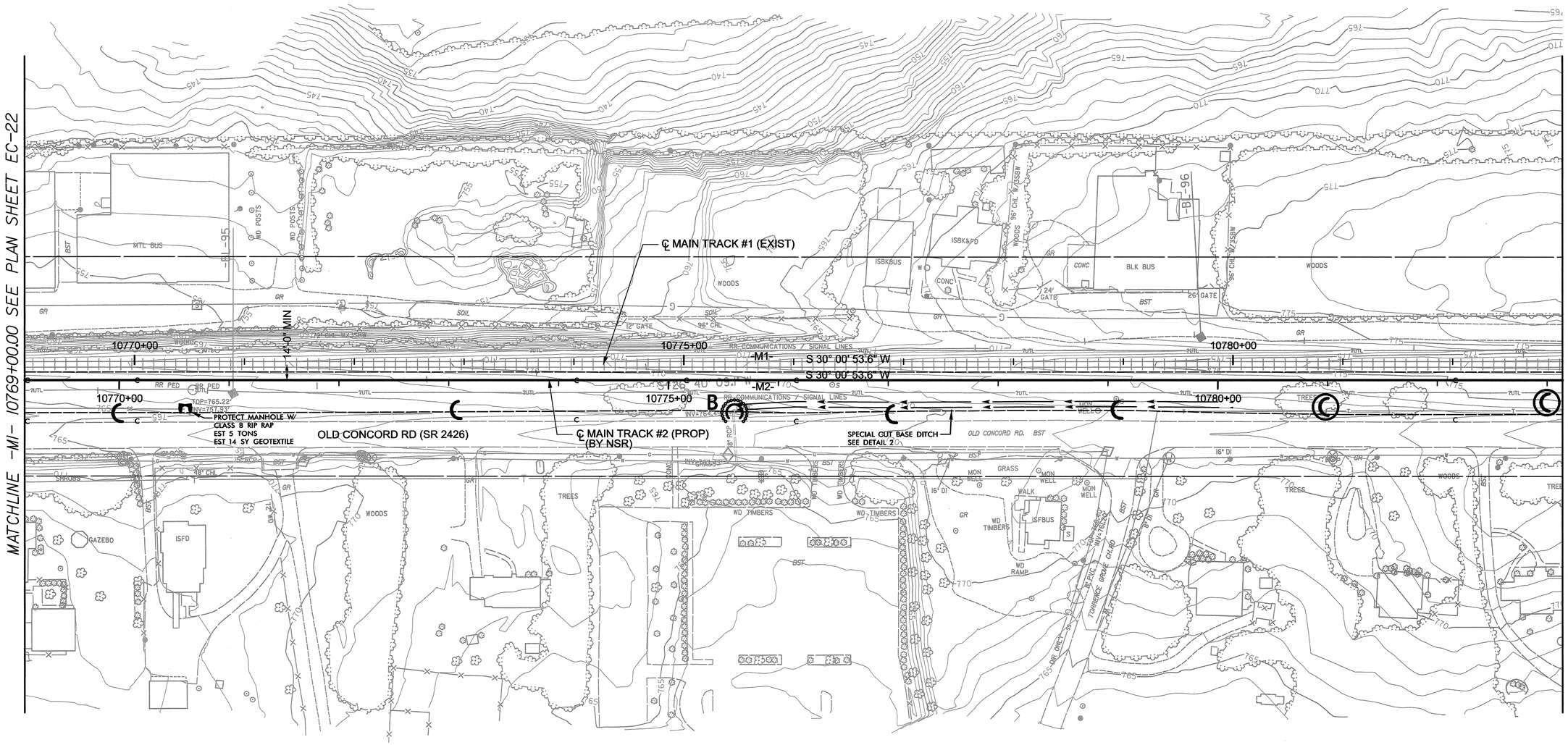
KANNAPOLIS

CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-24/CONST.24

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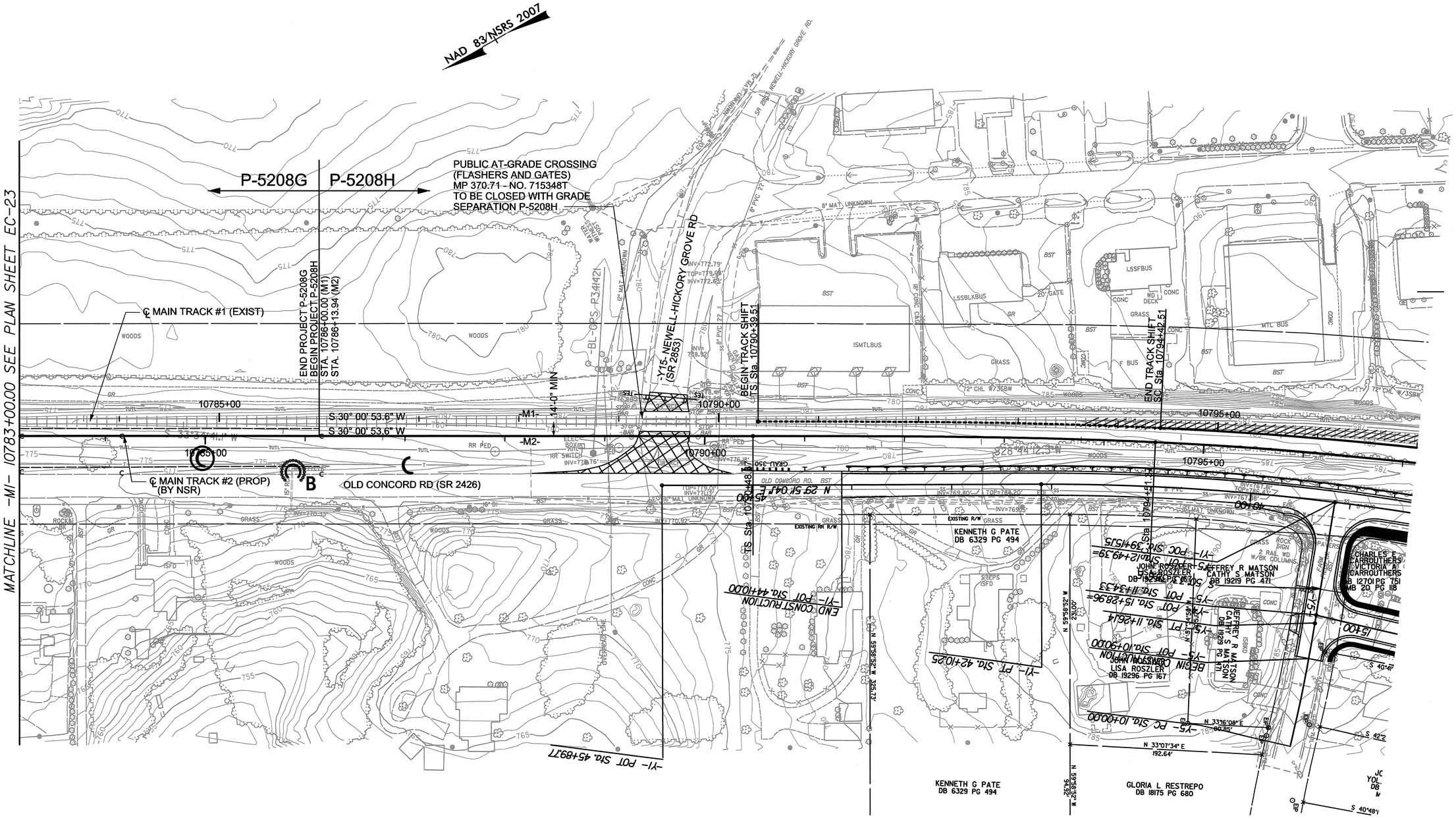
KANNAPOLIS

CHARLOTTE

NOTE:
EROSION CONTROL BETWEEN -M1- STA. 10786+00 TO STA. 10872+44.31 WILL BE INSTALLED UNDER THE P-5208H CONTRACT

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 24



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-25/CONST.25

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0041DEL_P10a1

KANNAPOLIS

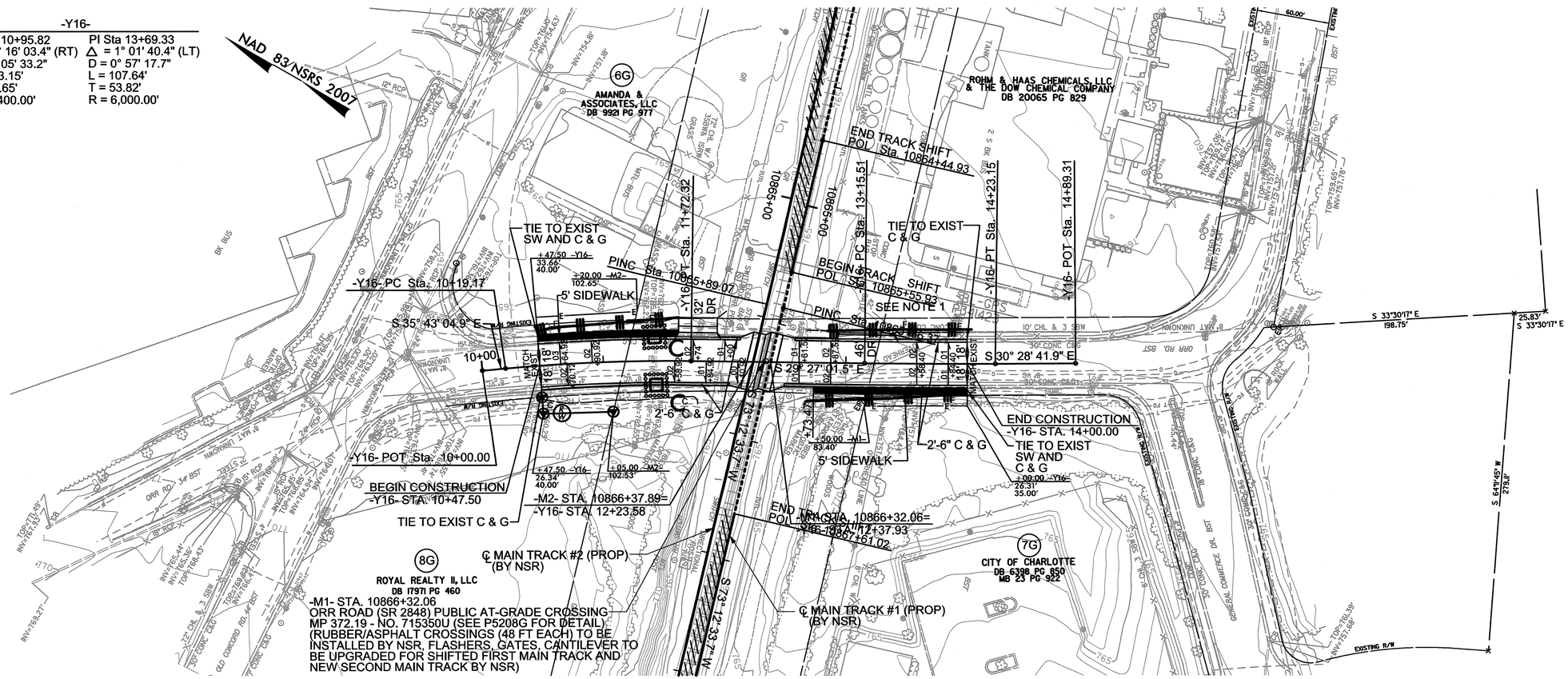
CHARLOTTE

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 25

-Y16-

PI Sta 10+95.82	PI Sta 13+69.33
Δ = 6° 16' 03.4" (RT)	Δ = 1° 01' 40.4" (LT)
D = 4° 05' 33.2"	D = 0° 57' 17.7"
L = 153.15'	L = 107.64'
T = 76.65'	T = 53.82'
R = 1,400.00'	R = 6,000.00'



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-26/CONST.04

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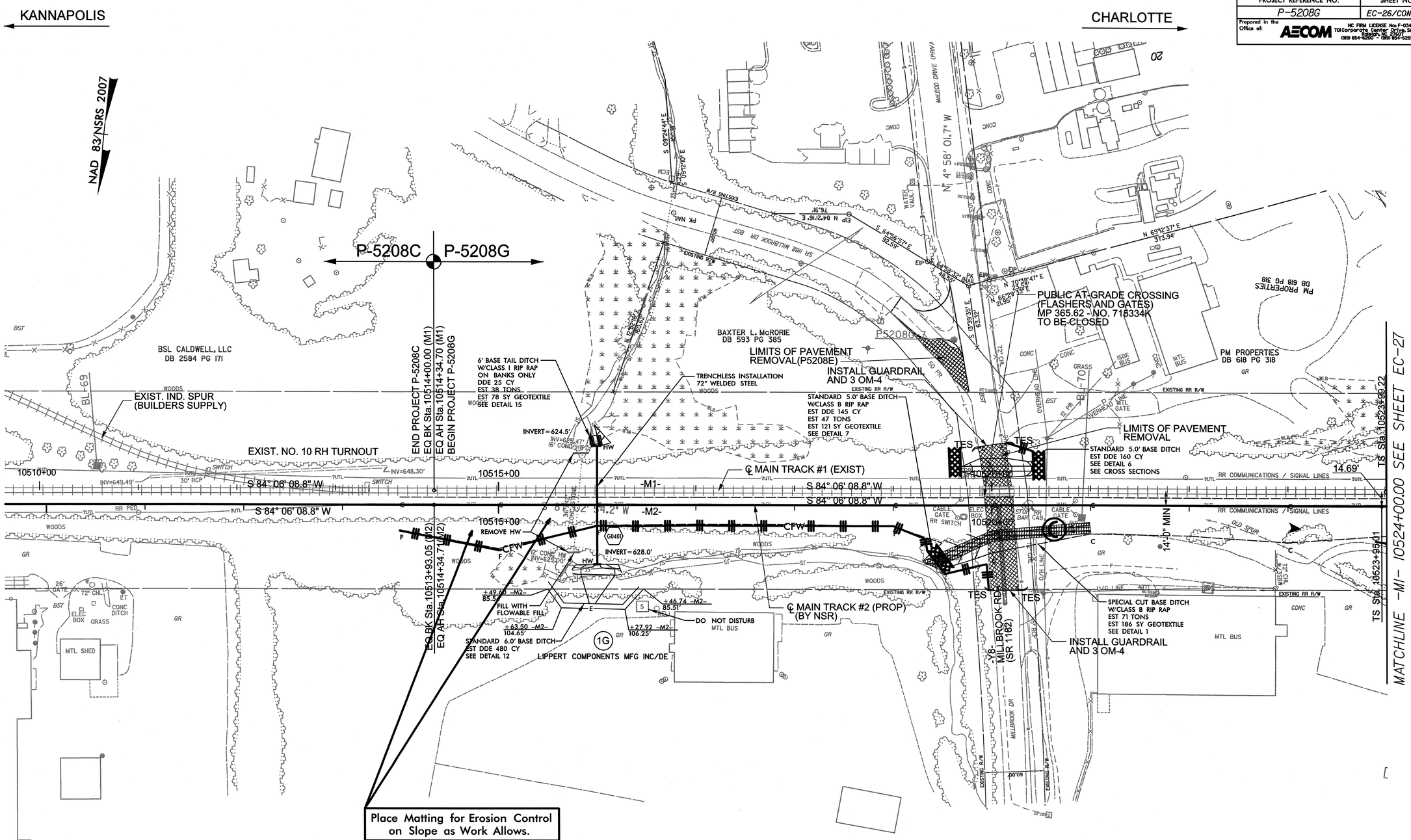

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-27/CONST.05

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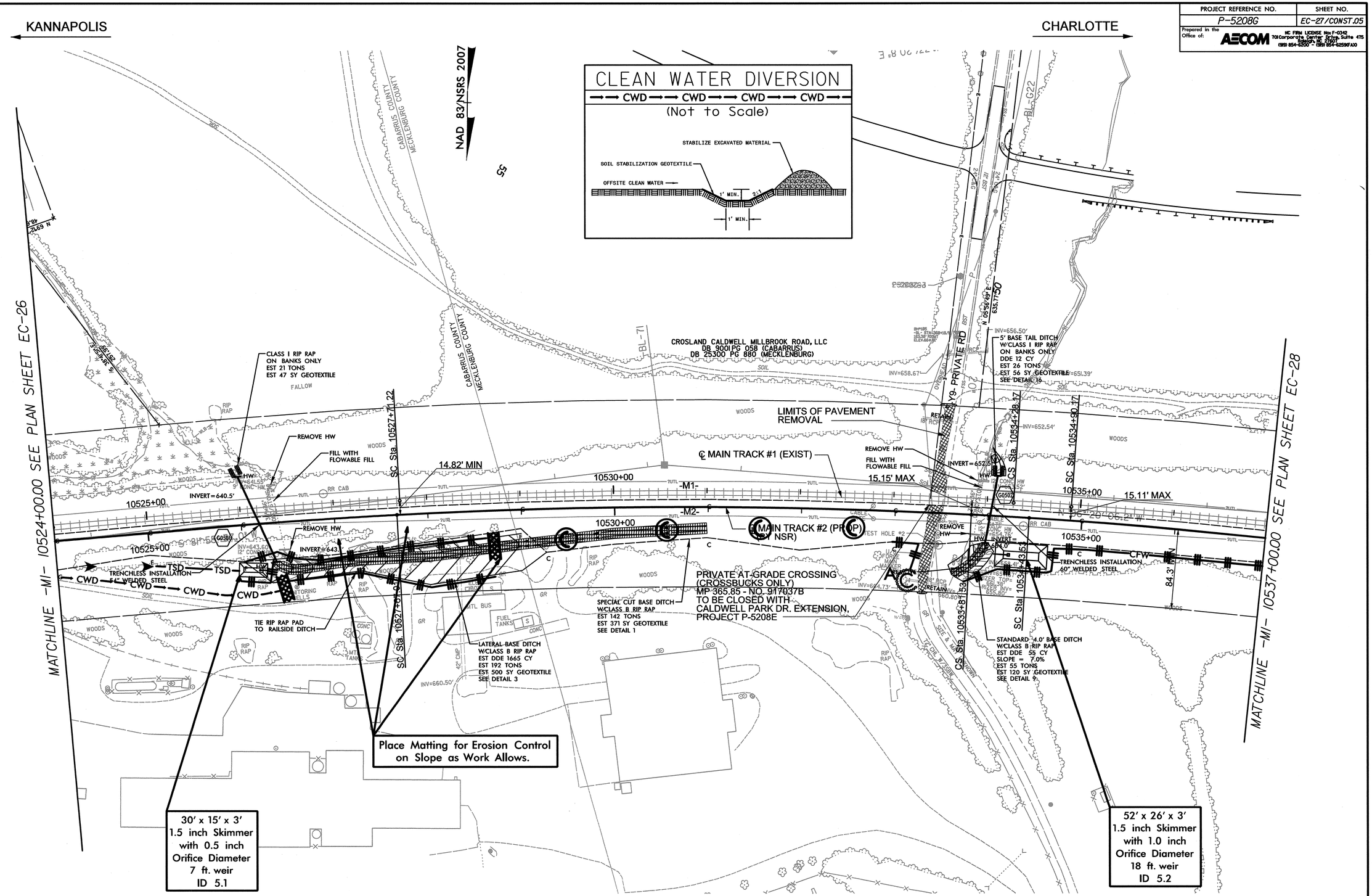

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-28/CONST.06

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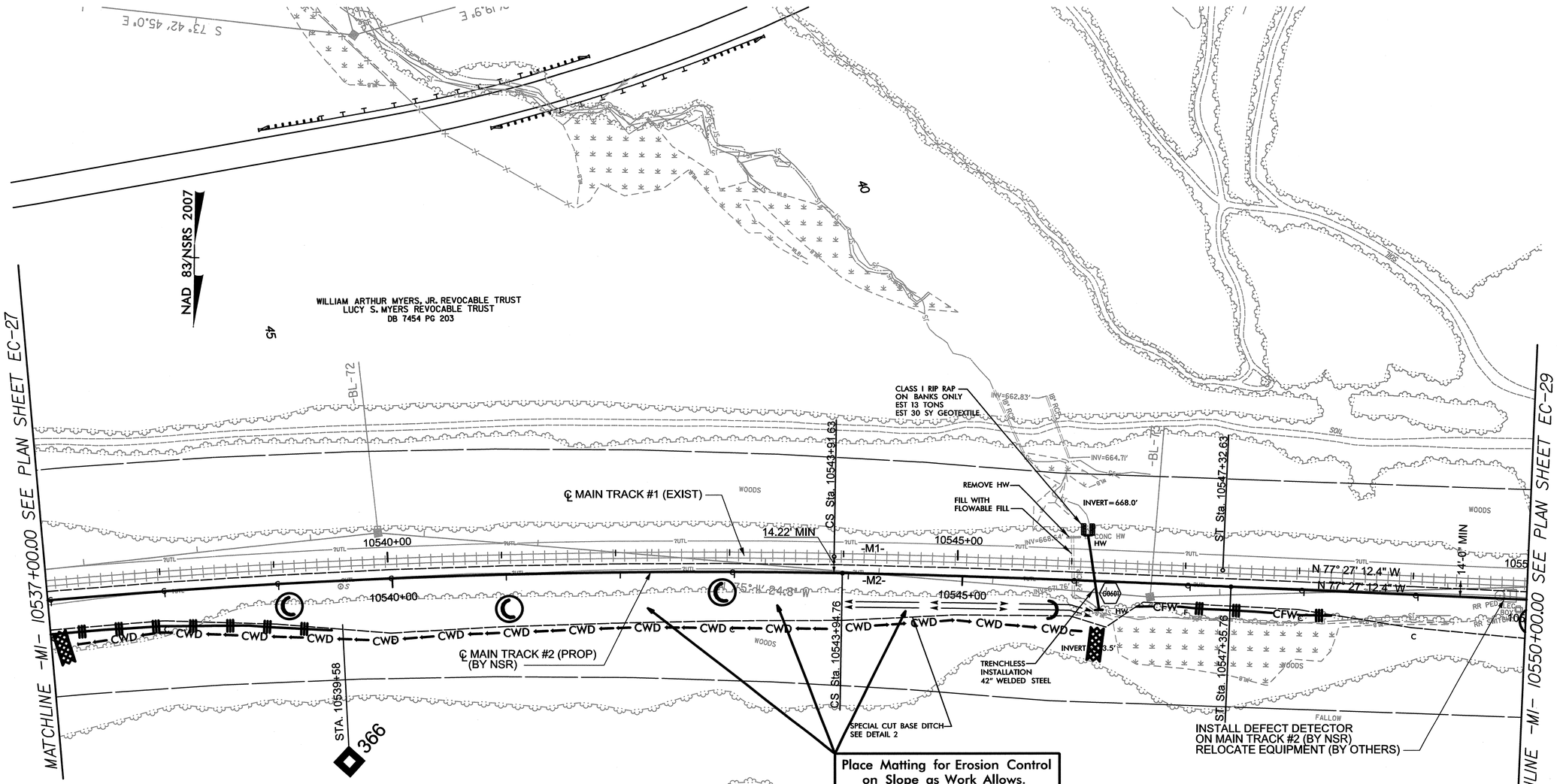
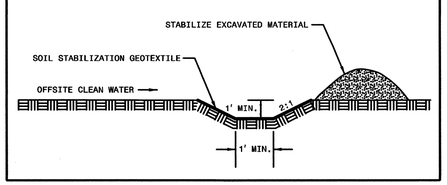


CLEAN WATER DIVERSION

(Not to Scale)



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-29/CONST.07

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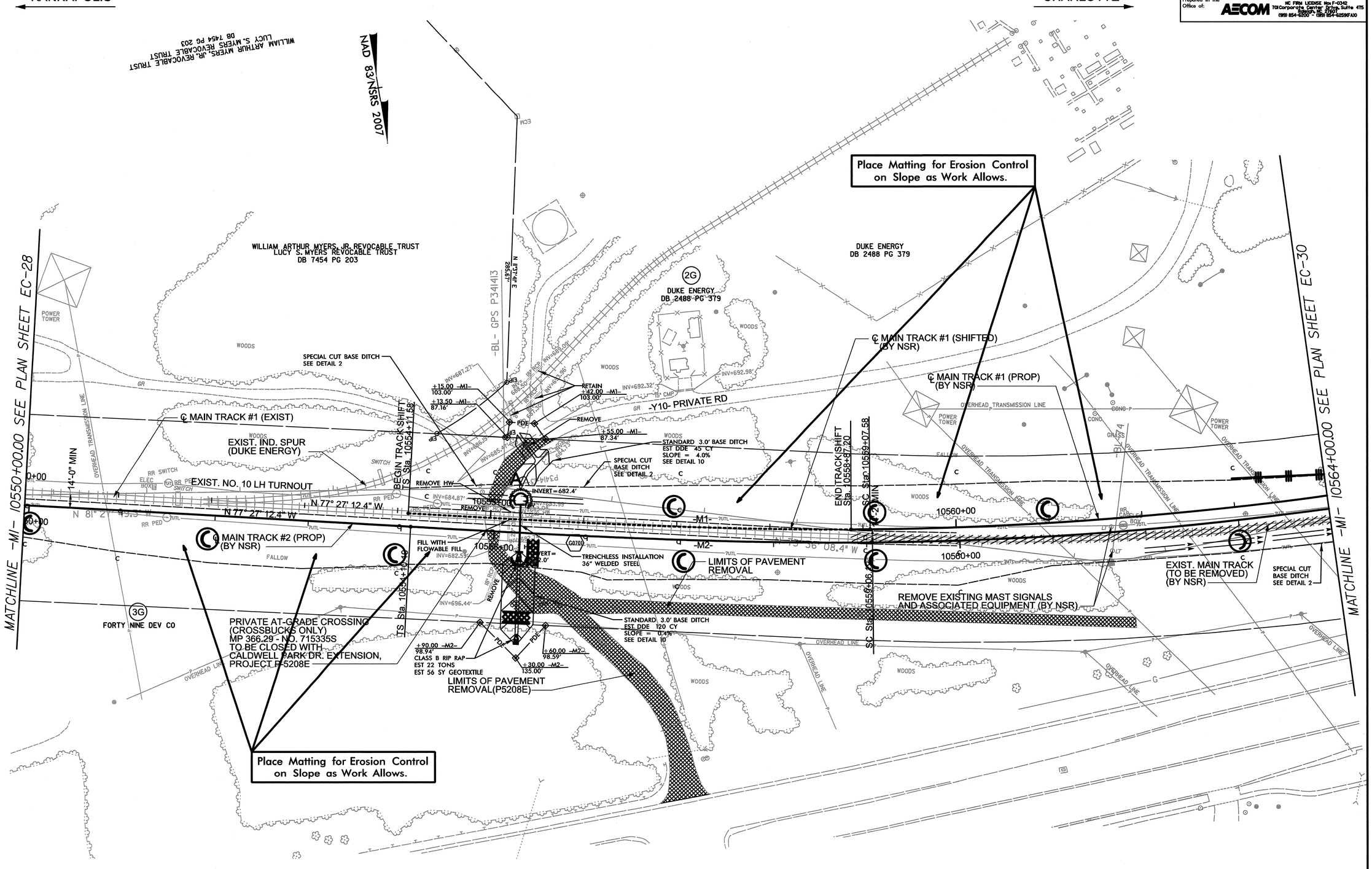

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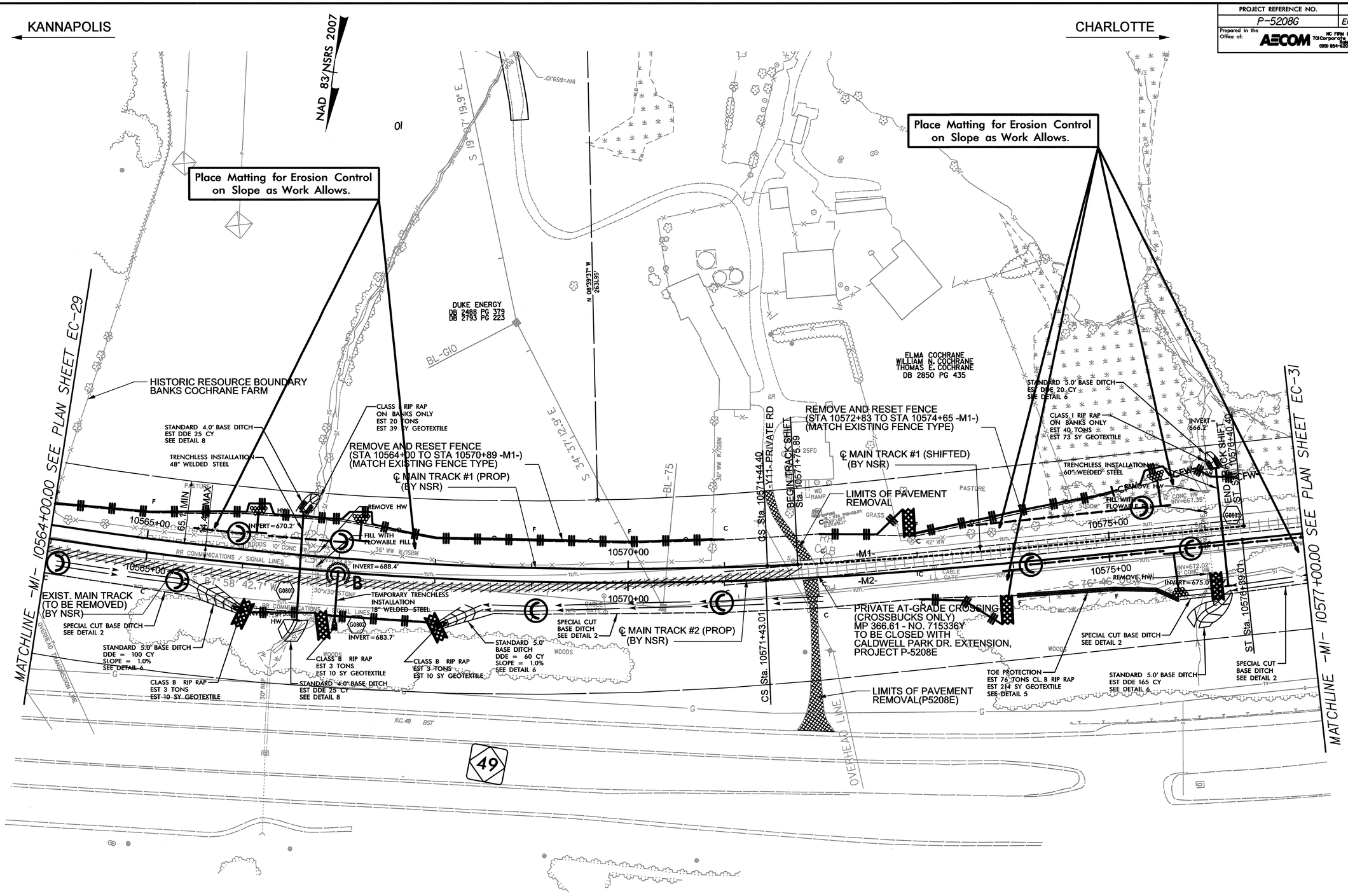
PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-30/CONST.08

Prepared in the Office of: AECOM 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 - (919) 854-6259FAX0 NC FIRM LICENSE No: F-0342

0041DEL_P10a1



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-31/CONST.09

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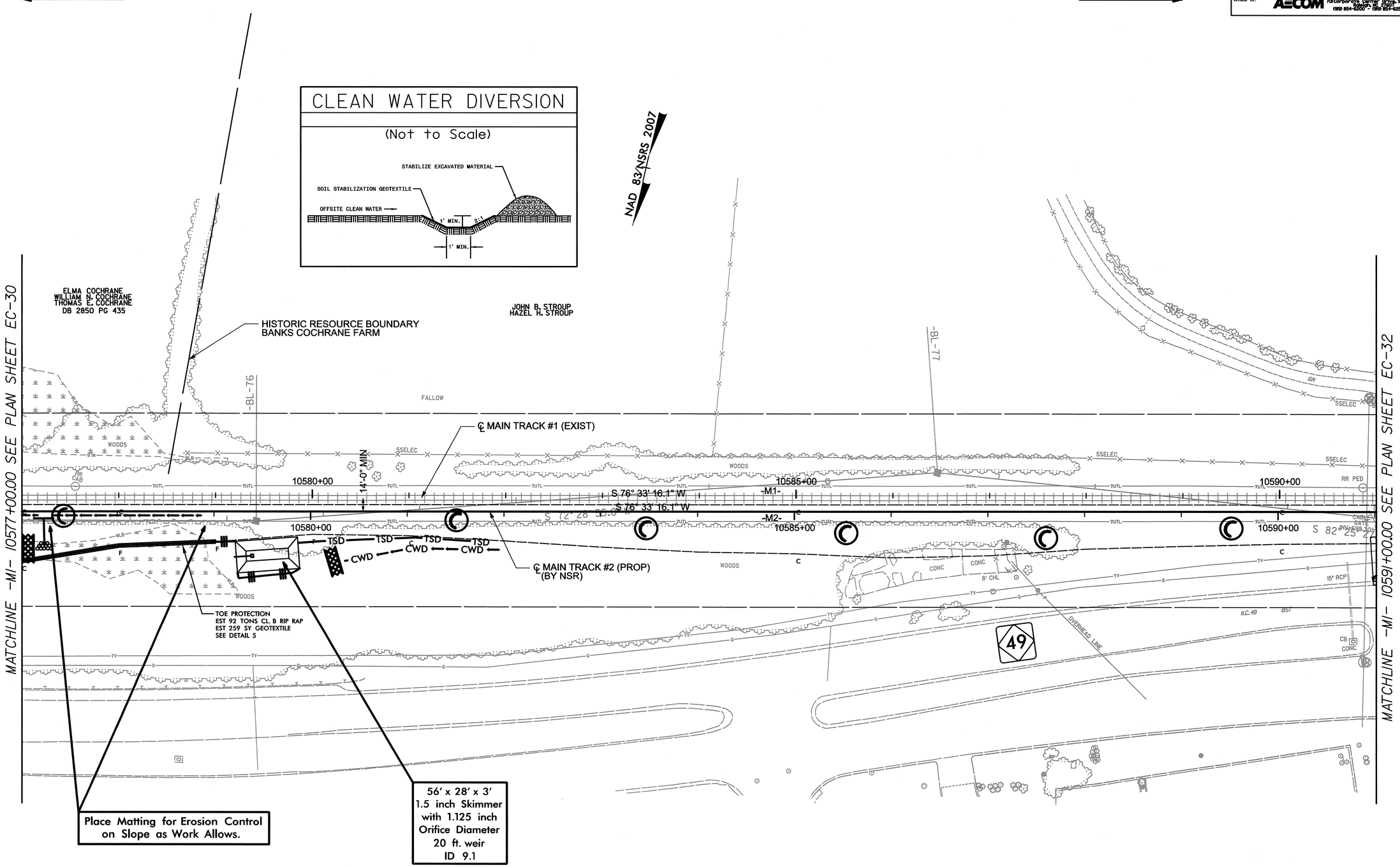

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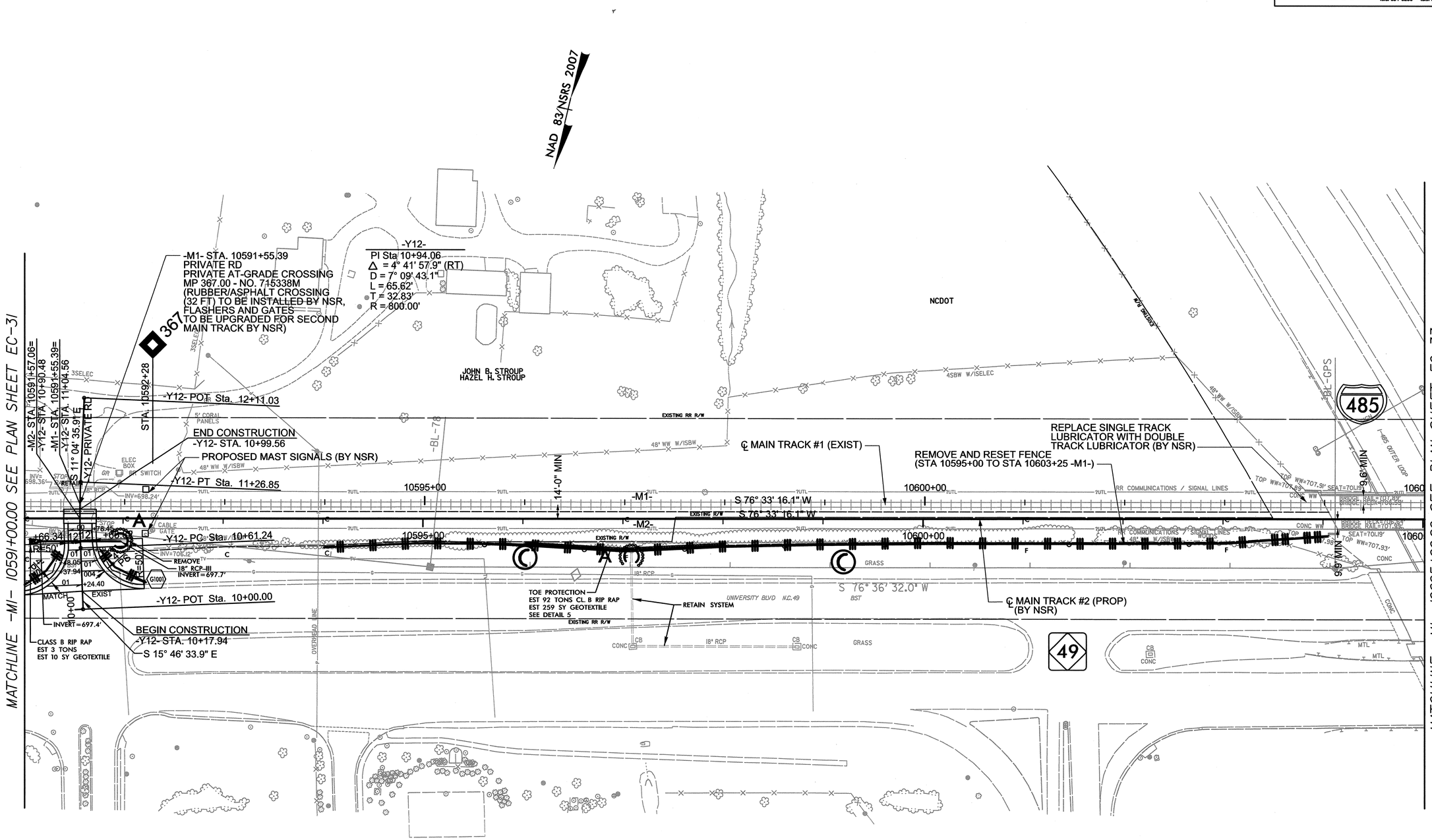
DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-32/CONSTJO

Prepared in the Office of: AECOM 701 Corporate Center Drive, Suite 475 Raleigh, NC 27607 (919) 854-6200 - (919) 854-6259FAX NC FIRM LICENSE No: F-0342



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DGN

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-33/CONSTJI

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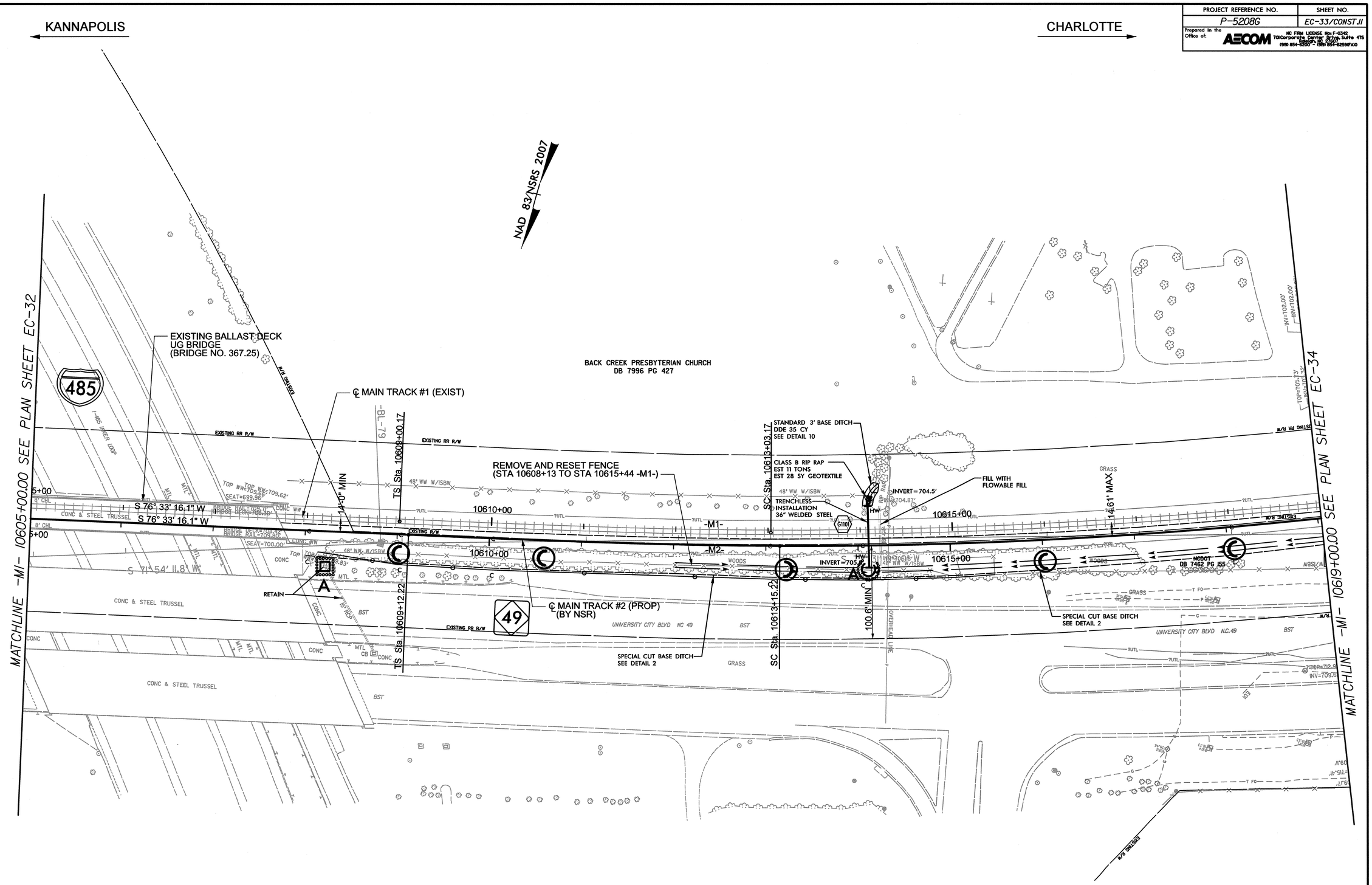

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-34/CONST.12

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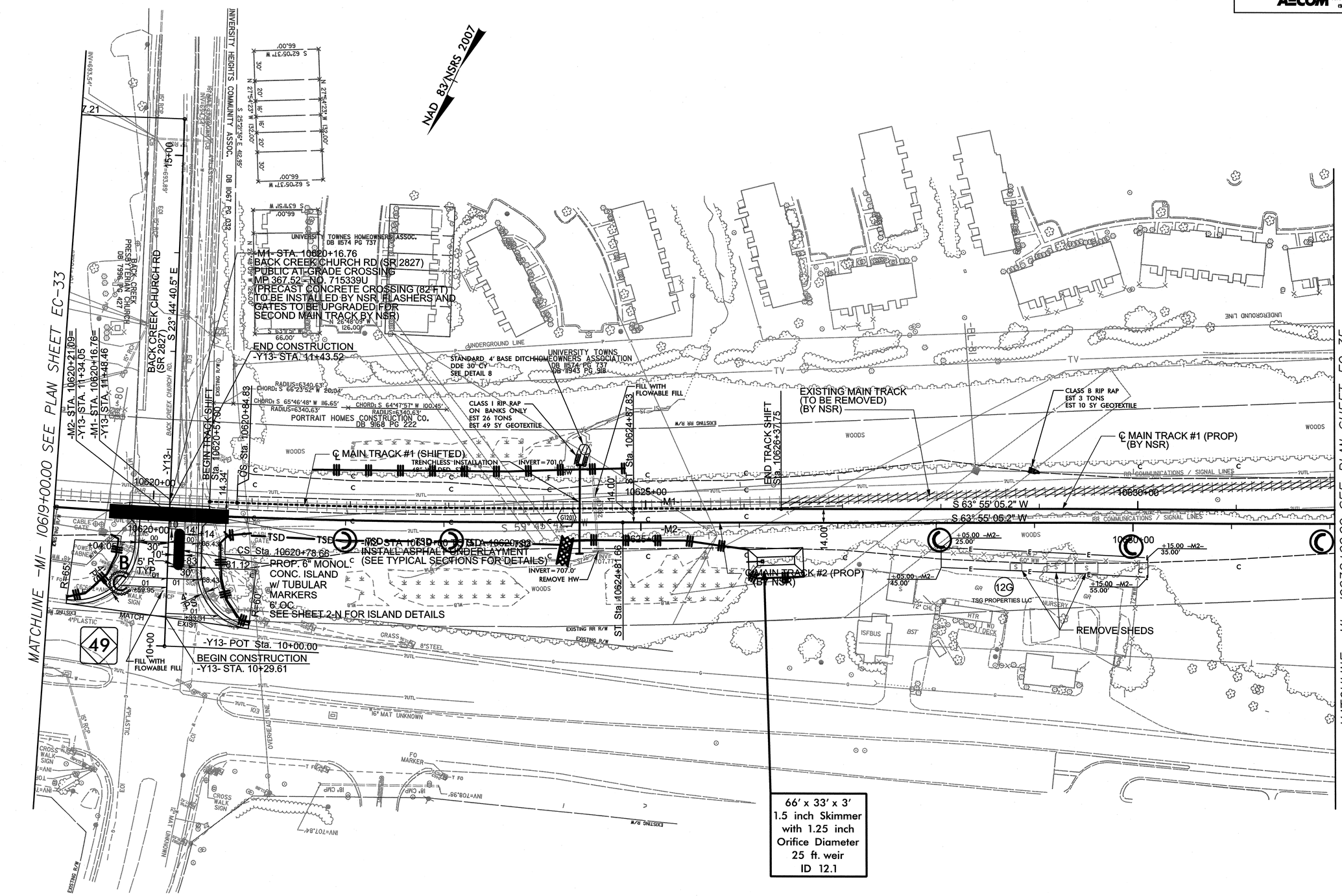

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-35/CONST.J3

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NC FIRM LICENSE No: F-0342
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259FAX

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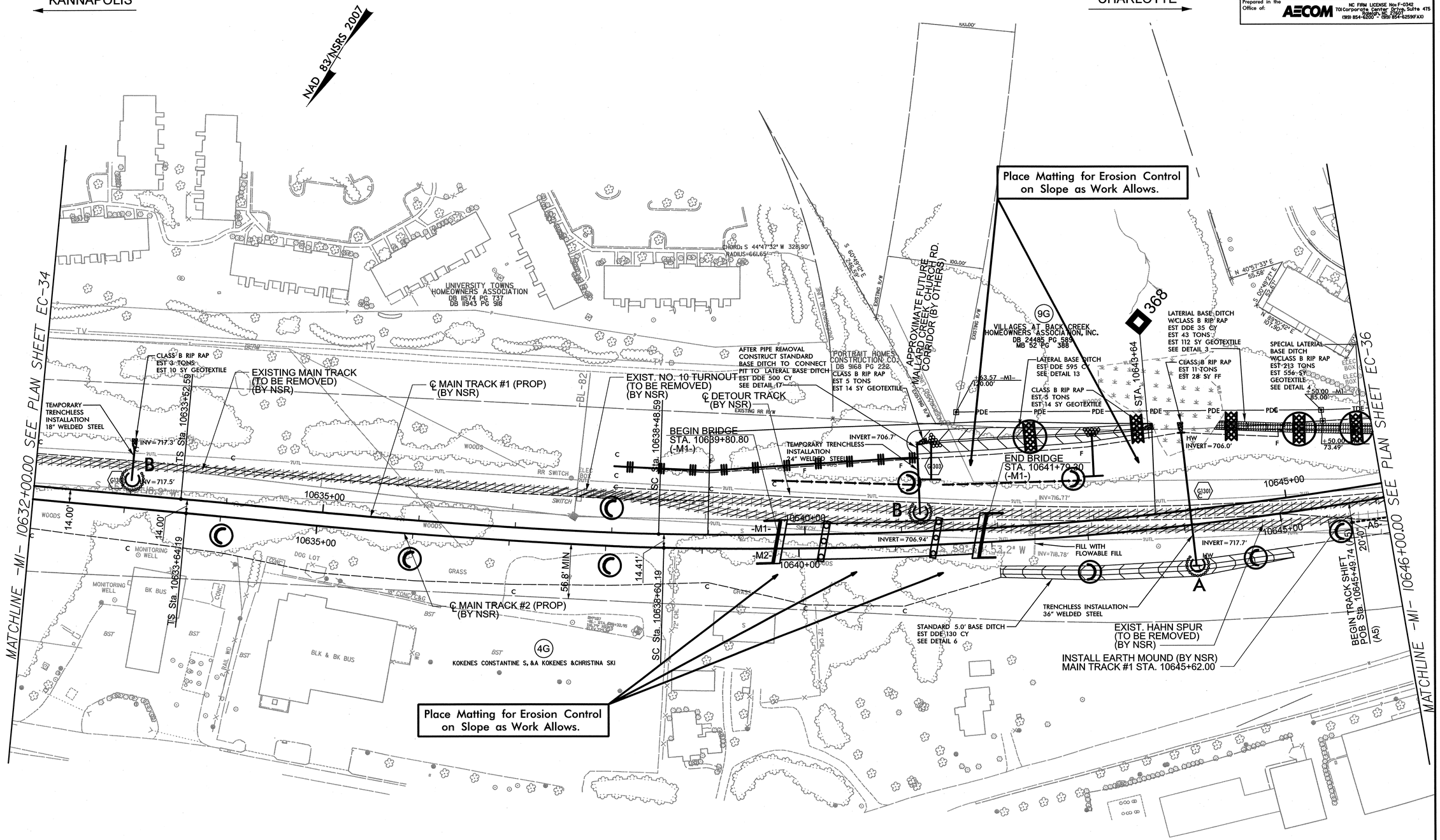

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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-36/CONSTJ4

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0041DEL_P10a1

DGN

KANNAPOLIS

CHARLOTTE

NAD 83/NSRS 2007

IP MERRYHUE FARMS LLC

N 89°12'37" E 752.07'

N 52°44'57" E 99.37'

CHORD: N 89°52'23" W 15.04'
RADIUS=11.50'

N 49°30'36" W 197.58'

S 50°06'36" E 43.58'

9G

VILLAGES AT BACK CREEK HOMEOWNERS ASSOCIATION, INC.
DB 24485 PG 589
MB 52 PG 388

25F CONDO'S

8' VINYL

N 49°16'23" E 13.34'
N 49°16'23" E 22.00'
N 49°16'22" E 31.00'
S 49°16'23" W
N 49°17'05" E 8.35'
S 40°42'55" E 13.50'
61.30'
N 49°17'05" E
N 49°13'44" E 108.00'
S 40°46'49" E 16.39'
S 45°13'37" E 118.84'

SPECIAL LATERAL BASE DITCH
W/CLASS B RIP RAP
EST 213 TONS
EST 556 SY GEOTEXTILE
SEE DETAIL 4

+40.00 -M1- 110.00'
+50.00 -M1- 57.92'
+00.00 -M1- 65.00'
+56.50 -M1- 65.32'
+00.00 -M1- 65.00'

21G

REDUS NC HOUSING, LLC
DB 25326 PG 858
MB 48 PG 930

+80.00 -M1- 115.00'
+90.00 -M1- 56.93'
+00.00 -M1- 65.00'

CLASS B RIP RAP
EST 3 TONS
EST 10 SY GEOTEXTILE

TEMPRORY TRENCHLESS INSTALLATION
18" WELDED STEEL

AREA UNDER CONSTRUCTION

+00.00 -M1- 55.00'

CLASS B RIP RAP
EST 11 TONS
EST 28 SY GEOTEXTILE

SPECIAL CUT BASE DITCH
SEE DETAIL 2

-BL-84

+00.00 -M1- 53.62'

℄ MAIN TRACK #1 (PROP)
(BY NSR)

MATCHLINE -M1- 10646+00.00 SEE PLAN SHEET EC-35

MATCHLINE -M1- 10659+00.00 SEE PLAN SHEET EC-37

BEGIN TRACK SHIFT
Sta 10648+68.21

INV=720.5'

INV=724.0'

INV=725.6'

INV=725.0'

10650+00

10655+00

15.51' MAX

52.3' MIN

-M1-

-M2-

S 50° 02' 20.8" W

-A5-

TIE TO EXISTING TRACK
END TRACK SHIFT
PC Sta 10647+14.74 (A5)

℄ DETOUR TRACK
(BY NSR)

℄ HAHN SPUR (EXIST)

SPECIAL CUT DITCH
FROM STA 10649+00
TO STA 10652+00 -M1G- RT
SEE CROSS SECTIONS

TRENCHLESS INSTALLATION
36" WELDED STEEL

℄ MAIN TRACK #2 (PROP)
(BY NSR)

SPECIAL CUT BASE DITCH
SEE DETAIL 2

EXIST. HAHN SPUR
(TO BE RETAINED)

EXIST. MAIN TRACK
(TO BE REMOVED)
(BY NSR)

OLD CONCORD RD (SR 2426)

OLD CONCORD RD. BST

6" PVC

30' CONC C&G

OVERHEAD LINE

RR COMMUNICATIONS / SIGNAL LINES

RR SWITCH

CONC BARRIER

GR RAMP

MTL BUS

CONC PLANT

MON WELL

TANKS

USER: rmayr
DATE: 4/12/2013
TIME: 3:14:28 PM
DGN: R:\Enviromental\Design\P-5208G_REU-EC36.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-37/CONSTJ5

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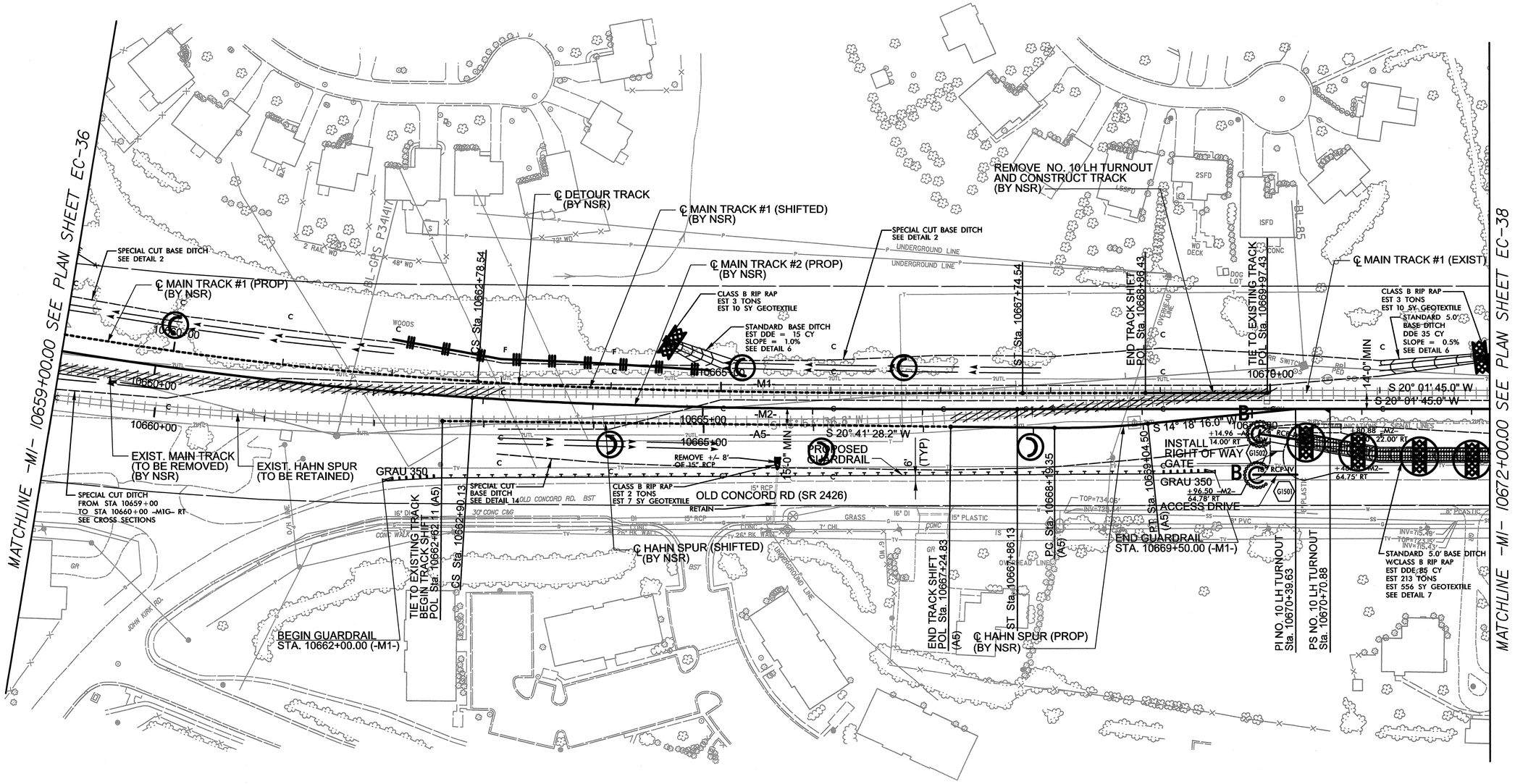
CHARLOTTE

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-38/CONST J6

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DGN 0041DEL_P10a1 0001ADD_P10a1

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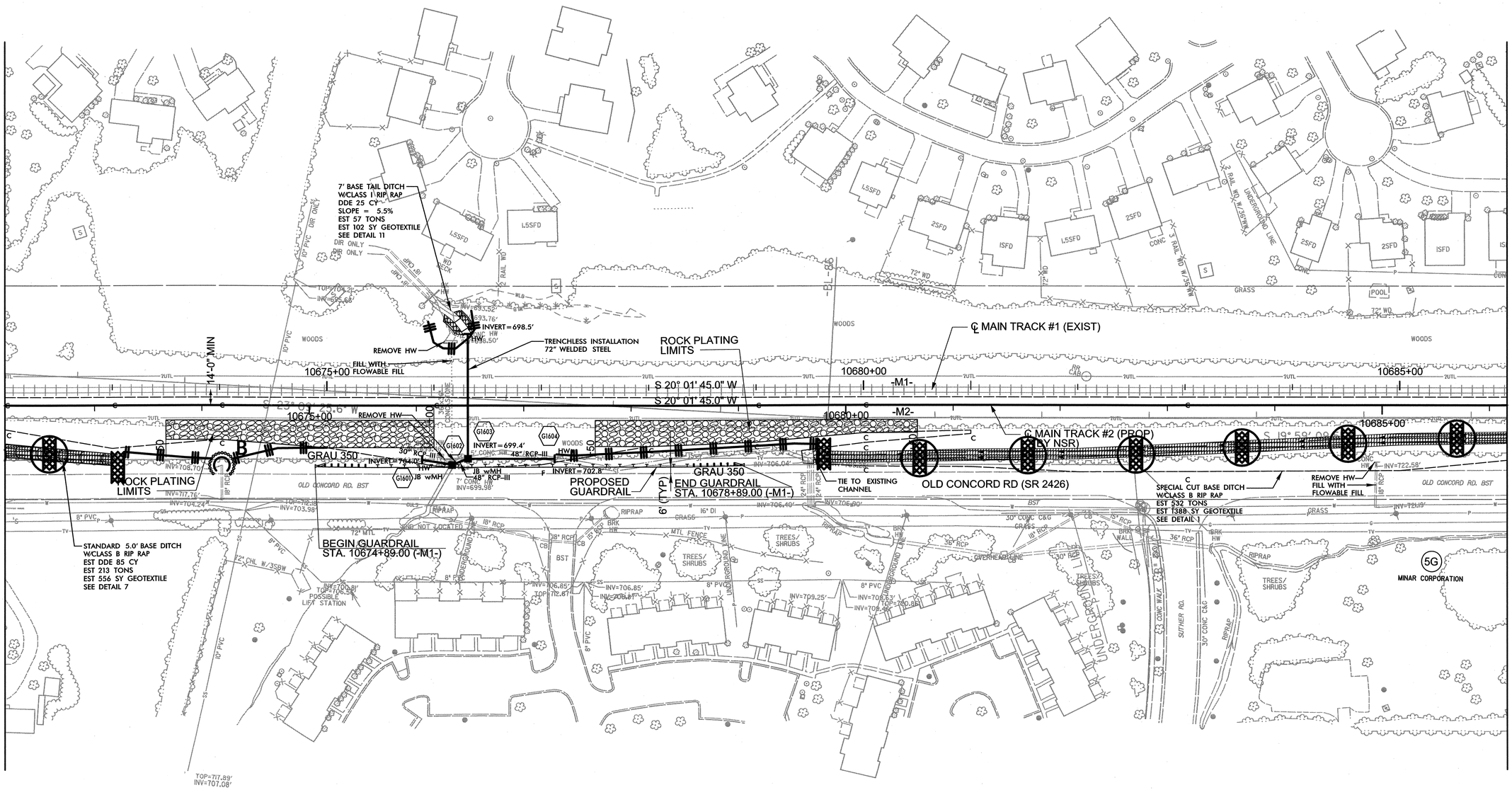
CHARLOTTE

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-39/CONST.J7

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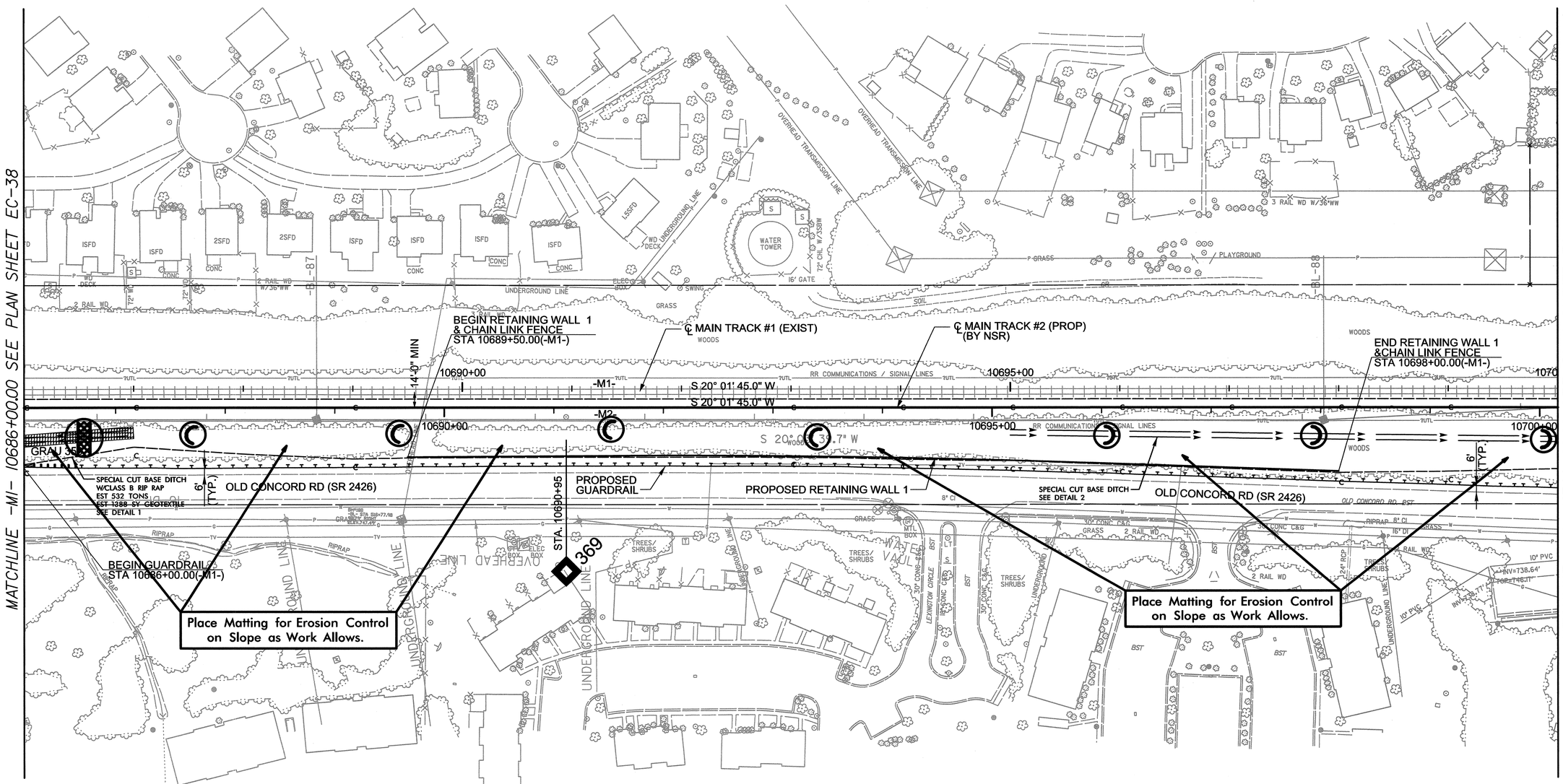
KANNAPOLIS ← → CHARLOTTE

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-40/CONST J8

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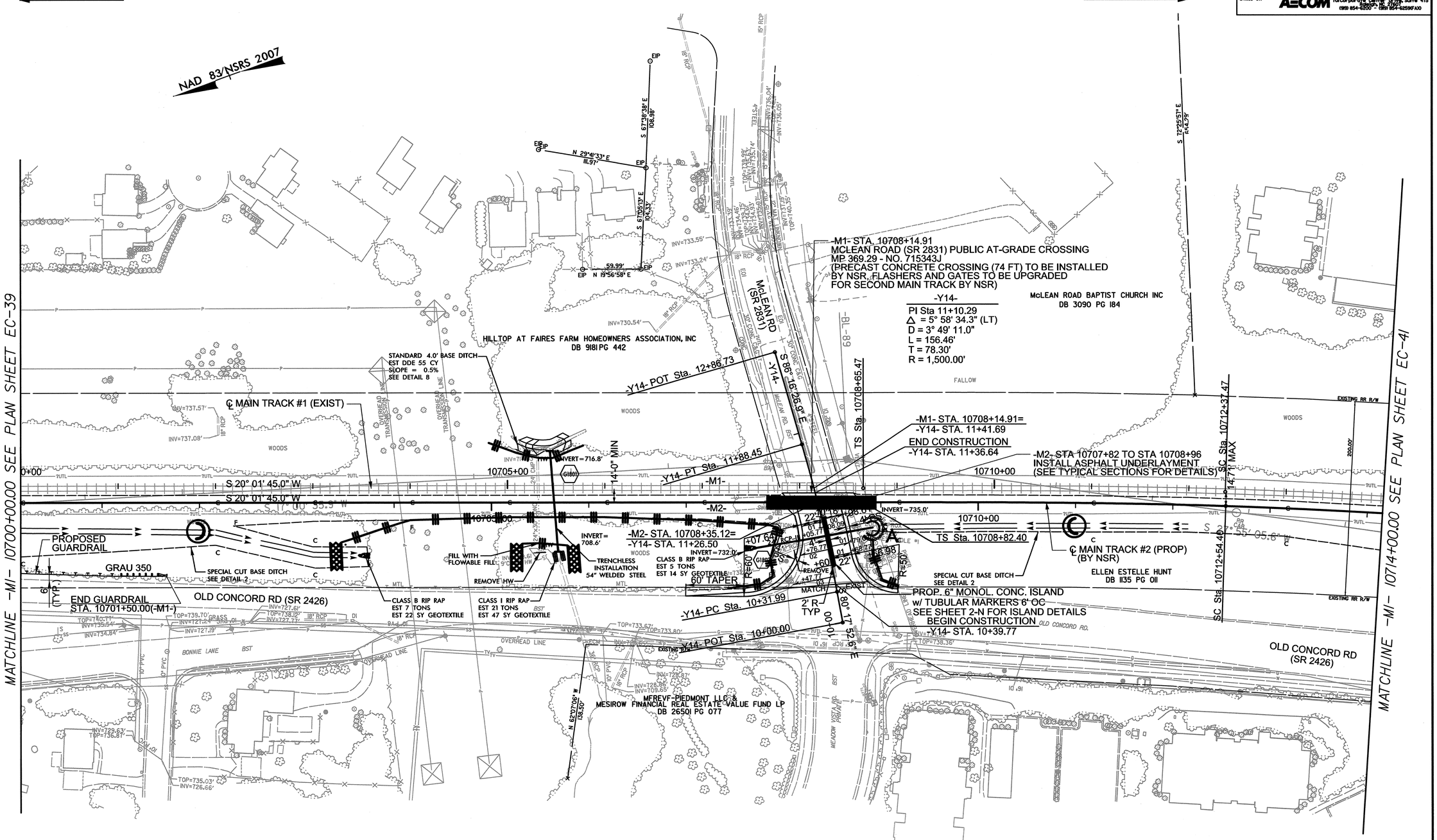
KANNAPOLIS
CHARLOTTE
NAD 83/NSRS 2007
MATCHLINE -M1- 10700+00.00 SEE PLAN SHEET EC-39
MATCHLINE -M1- 10714+00.00 SEE PLAN SHEET EC-41
-M1- STA. 10708+14.91
MCLEAN ROAD (SR 2831) PUBLIC AT-GRADE CROSSING
MP 369.29 - NO. 715343J
(PRECAST CONCRETE CROSSING (74 FT) TO BE INSTALLED BY NSR, FLASHERS AND GATES TO BE UPGRADED FOR SECOND MAIN TRACK BY NSR)
-Y14-
PI Sta 11+10.29
Δ = 5° 58' 34.3" (LT)
D = 3° 49' 11.0"
L = 156.46'
T = 78.30'
R = 1,500.00'
McLEAN ROAD BAPTIST CHURCH INC
DB 3090 PG 184
McLEAN RD (SR 2831)
HILLTOP AT FAIRES FARM HOMEOWNERS ASSOCIATION, INC
DB 9181 PG 442
STANDARD 4.0' BASE DITCH
EST DDE 55 CY
SLOPE = 0.5%
SEE DETAIL 8
-Y14- POT Sta. 12+86.73
S 86° 16' 26.9" E
FALLOW
WOODS
℄ MAIN TRACK #1 (EXIST)
-M1- STA. 10708+14.91=
-Y14- STA. 11+41.69
END CONSTRUCTION
-Y14- STA. 11+36.64
-M2- STA 10707+82 TO STA 10708+96
INSTALL ASPHALT UNDERLAYMENT
(SEE TYPICAL SECTIONS FOR DETAILS)
TS Sta. 10708+65.47
SC Sta. 10712+37.47
SC Sta. 10712+54.40
14.71' MAX
INVERT = 716.8'
14'-0" MIN
-Y14- PT Sta. 11+88.45
-M1-
-M2-
S 20° 01' 45.0" W
S 17° 00' 35.9" W
INVERT = 735.0'
TS Sta. 10708+82.40
℄ MAIN TRACK #2 (PROP)
(BY NSR)
ELLEN ESTELLE HUNT
DB 1135 PG 011
PROPOSED GUARDRAIL
GRAU 350
END GUARDRAIL
STA. 10701+50.00(-M1-)
SPECIAL CUT BASE DITCH
SEE DETAIL 2
OLD CONCORD RD (SR 2426)
FILL WITH FLOWABLE FILL
REMOVE HW
INVERT = 708.6'
TRENCHLESS INSTALLATION
54" WELDED STEEL
-M2- STA. 10708+35.12=
-Y14- STA. 11+26.50
INVERT = 732.0'
CLASS B RIP RAP
EST 5 TONS
EST 14 SY GEOTEXTILE
60' TAPER
REMOVE
MATCH EXIST
2' R TYP
CLASS B RIP RAP
EST 7 TONS
EST 22 SY GEOTEXTILE
CLASS I RIP RAP
EST 21 TONS
EST 47 SY GEOTEXTILE
-Y14- PC Sta. 10+31.99
-Y14- POT Sta. 10+00.00
PROP. 6" MONOL. CONC. ISLAND
w/ TUBULAR MARKERS 6' OC
SEE SHEET 2-N FOR ISLAND DETAILS
BEGIN CONSTRUCTION
-Y14- STA. 10+39.77
OLD CONCORD RD (SR 2426)
BONNIE LANE
MFREVF-PIEDMONT LLC &
MESIROW FINANCIAL REAL ESTATE VALUE FUND LP
DB 26501 PG 077
N 62°37'56" W
138.50'
MEADOW VISTA DR PRIVATE
EXISTING RR R/W
10705+00
10710+00
10715+00
10720+00
10725+00
10730+00
10735+00
10740+00
10745+00
10750+00
10755+00
10760+00
10765+00
10770+00
10775+00
10780+00
10785+00
10790+00
10795+00
10800+00
10805+00
10810+00
10815+00
10820+00
10825+00
10830+00
10835+00
10840+00
10845+00
10850+00
10855+00
10860+00
10865+00
10870+00
10875+00
10880+00
10885+00
10890+00
10895+00
10900+00

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-41/CONST.J9

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DGN

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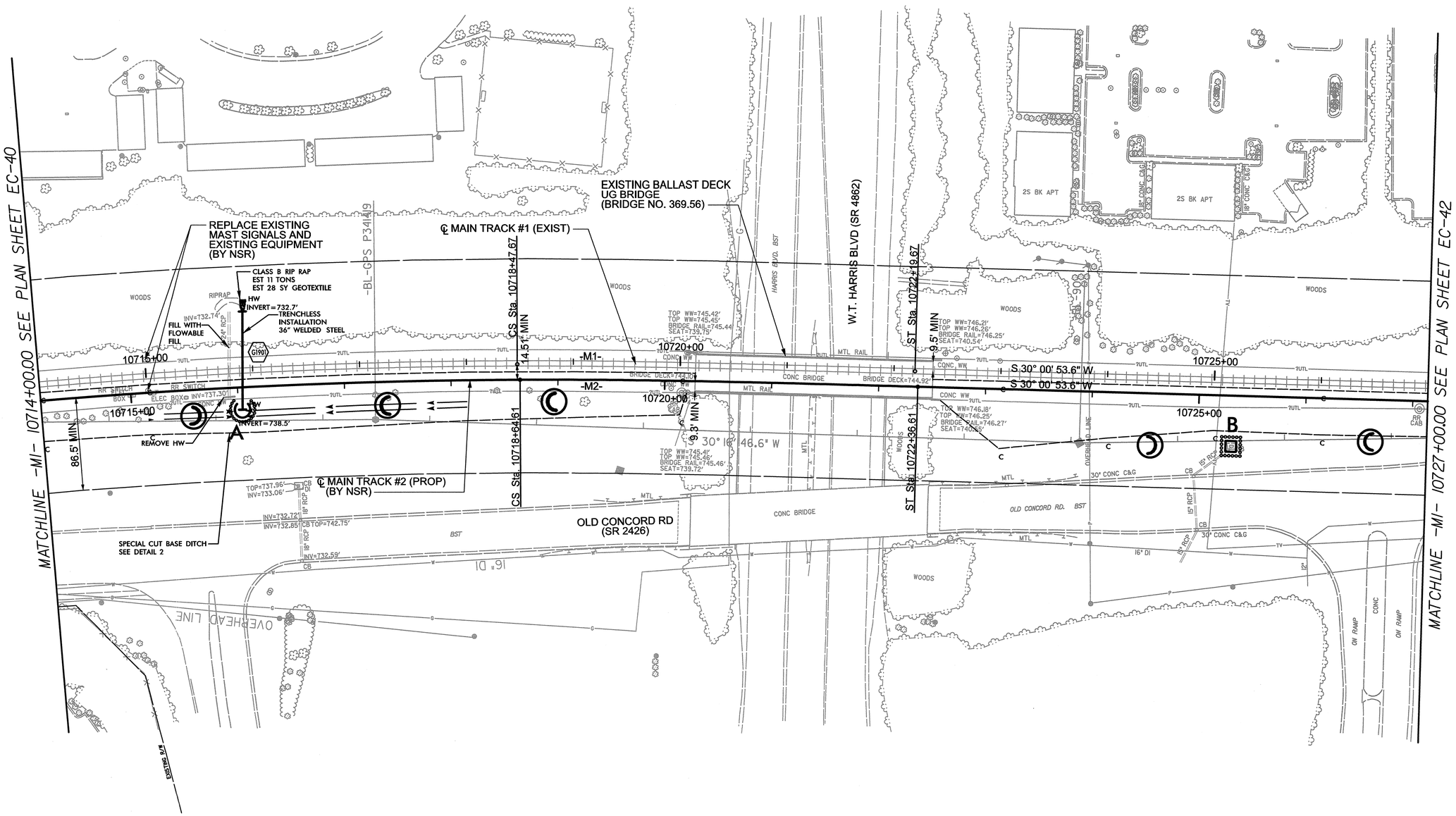
CHARLOTTE

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-42/CONST20

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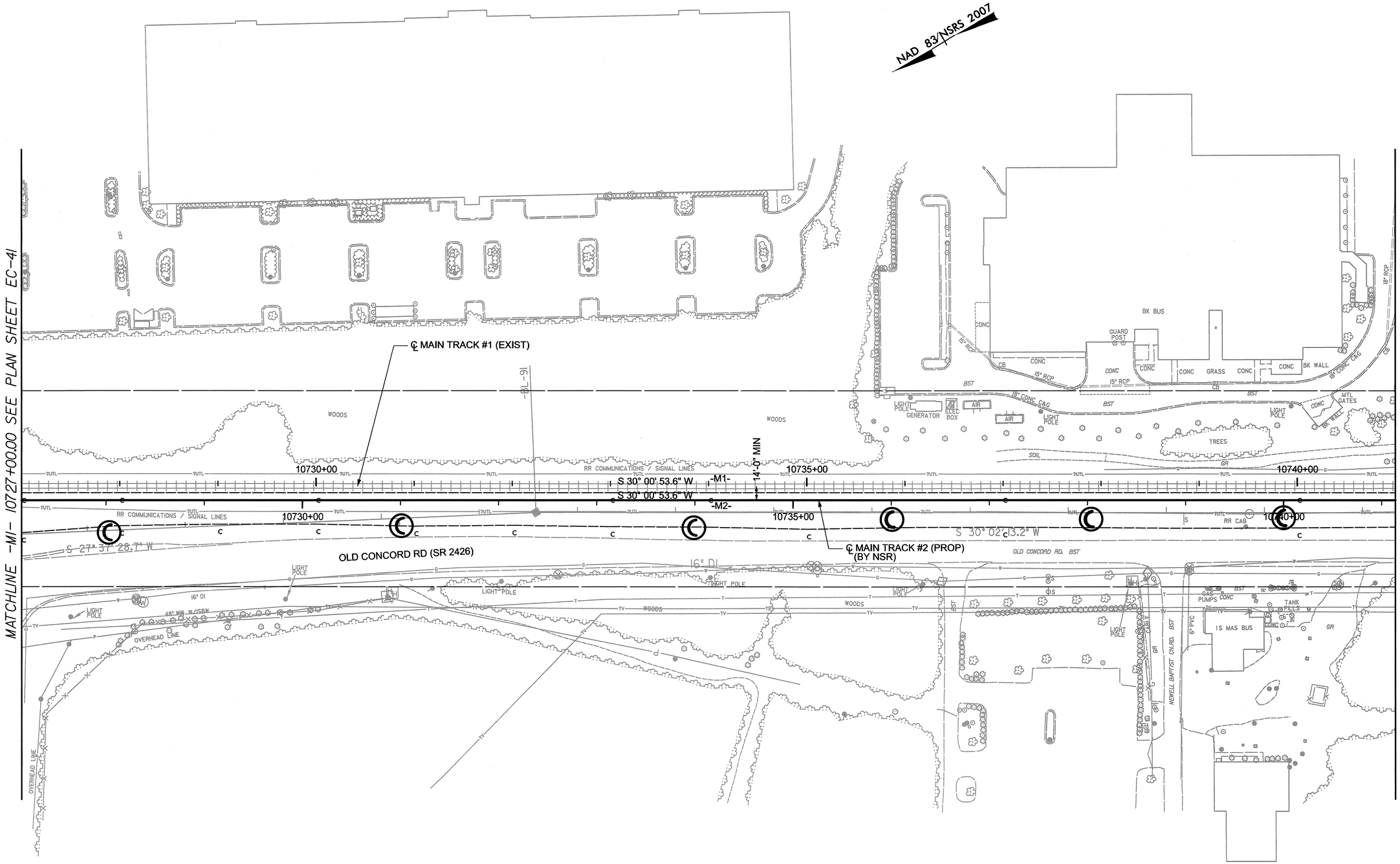

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DATE: 4/12/2023
TIME: 3:44:44 PM
DGN: R:\Environmental\Design\P-5208G_REV-EC42.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-43/CONST.21

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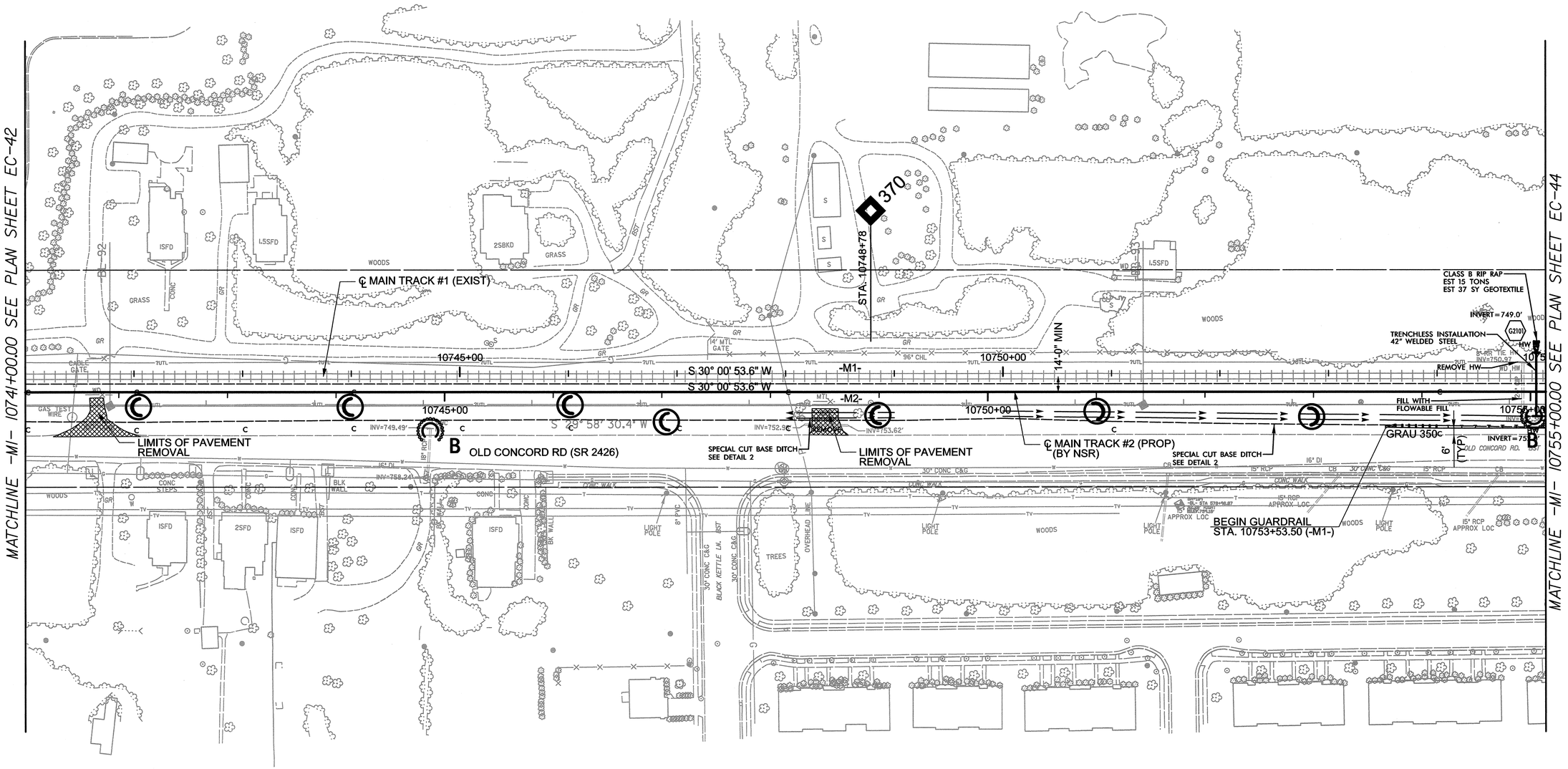
DGN

KANNAPOLIS

CHARLOTTE

NAD 83/NSRS 2007



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DATE: 4/12/2023
TIME: 3:44:45 PM
DGN: R:\Environmental\Design\P-5208G_REV-EC43.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-44/CONST.22

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DGN

KANNAPOLIS

CHARLOTTE

NAD 83/NSRS 2007

MATCHLINE -M1- 10755+00.00 SEE PLAN SHEET EC-43

MATCHLINE -M1- 10769+00.00 SEE PLAN SHEET EC-45

5+00

10760+00

10765+00

14'-0" MIN

S 30° 00' 53.6" W

S 30° 00' 53.6" W

-M1-

-M2-

-BL-94

℄ MAIN TRACK #1 (EXIST)

℄ MAIN TRACK #2 (PROP) (BY NSR)

PROPOSED GUARDRAIL

SPECIAL CUT BASE DITCH SEE DETAIL 2

GRAU 350

END GUARDRAIL STA. 10757+03.50 (-M1-)

OLD CONCORD RD (SR 2426)

SPECIAL CUT BASE DITCH SEE DETAIL 14

OLD CONCORD RD. BST

S 29° 55' 22.1" W

S 30° 06' 49.8" W

WOODS

3 RAIL VINYL

SHRUBS

48" WW W/ISBW

72" CHL W/3SBW

28' GATE

2SF &MAS BUS

14' MTL GATE

16' MTL GATE

48" CHL

BK G

STEPS

ISBKD

CONC

S

3SBW

12" PVC

GR

BST

TUTL

BR SWITCH

ELEC BOX

INV=752.78'

B

18" RCP

MTL GUARD POSTS

CB

18" RCP 30' CONC C&G

16" DI

15" RCP

CONC WALK

INV=754.95'

FLAG POLE

GRASS

VENTS

CONC

18" CONC C&G

LIGHT POLE

BK TOWER

STONEBRIDGE LION DR. BST

BK BUS

LOC APPROX

ELEC BOX

MON. WELLS

MTL CANOPY

FILL CAPS

CTVAC

12" RCP

ROCKY RIVER RD.

8" PVC

INV=750.60'

TOP=761.41'

INV=750.51'

INV=750.26'

TOP=761.58'

OVERHEAD LINE

WOODS

GRAVE

WATER VAULT

TIMBER WALL

2SFD

RR CAB

USER: rwiv
DATE: 4/12/2013
TIME: 3:44:48 PM
DGN: R:\Environmental\Design\P-5208G_REV-EC44.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-45/CONST.23

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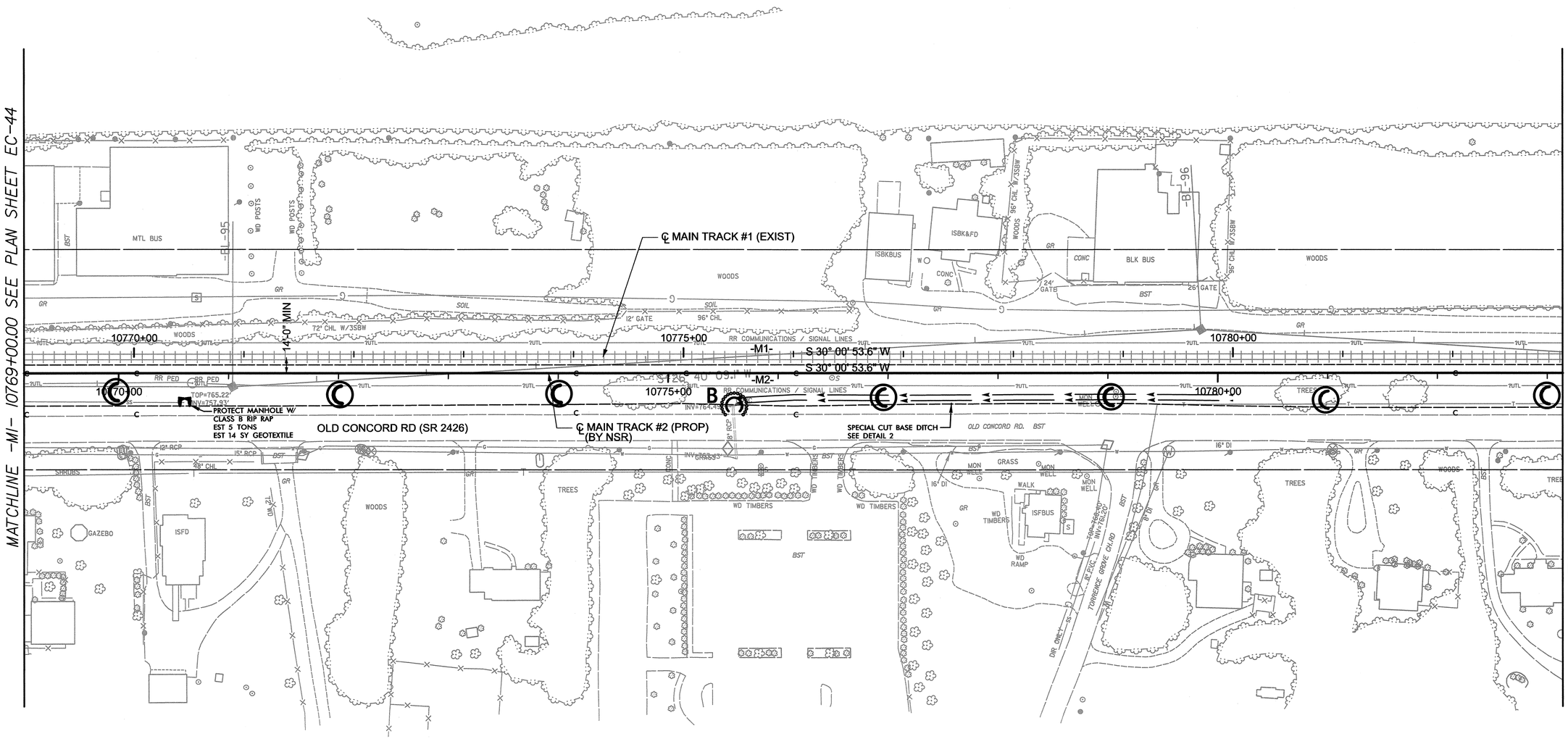
DGN

KANNAPOLIS

CHARLOTTE

NAD 83/NSRS 2007



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DGN: R:\Environmental\Design\P-5208G_REV-EC45.dgn

PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-46/CONST.24

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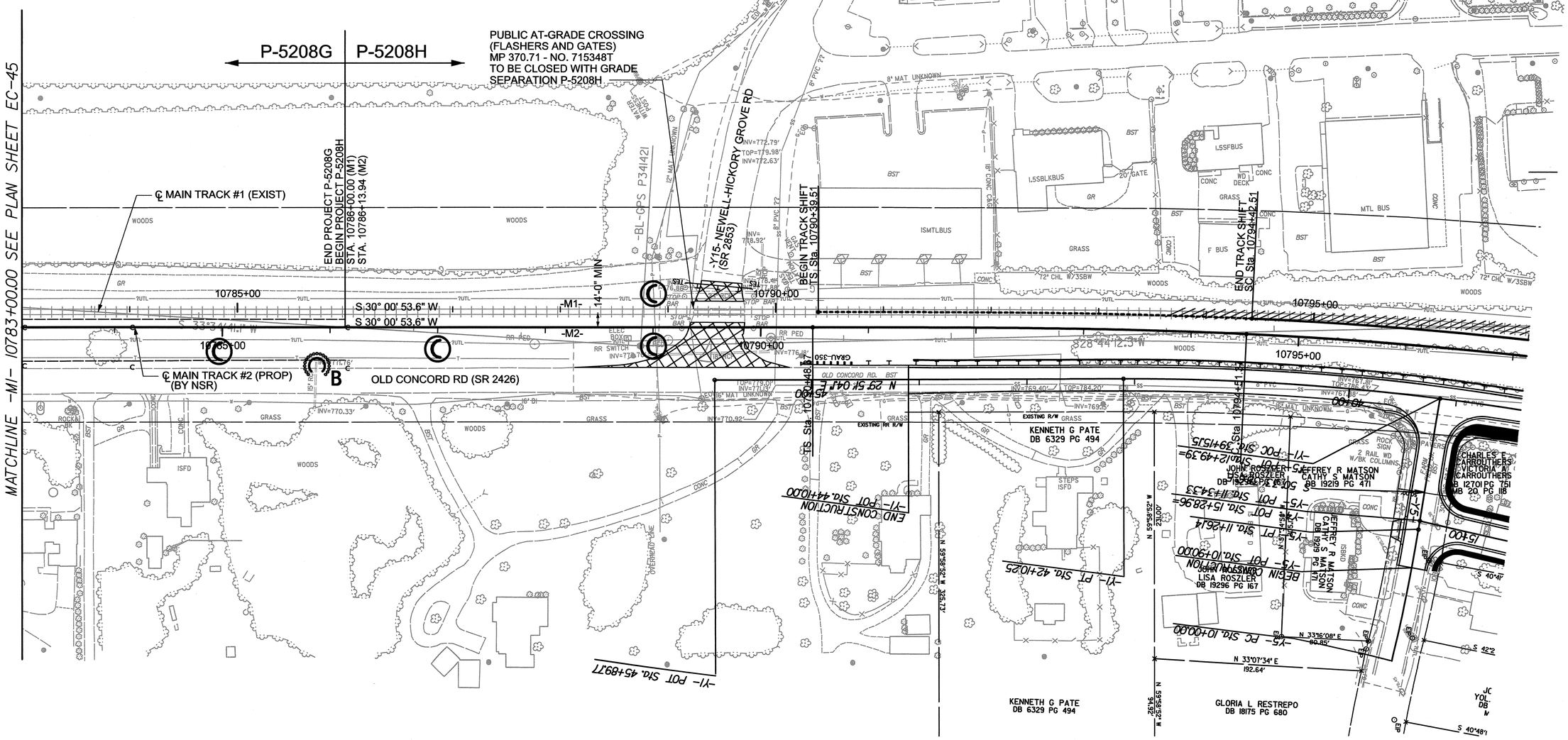
DGN

KANNAPOLIS

CHARLOTTE

NOTE:
EROSION CONTROL BETWEEN -M1- STA. 10786+00 TO STA. 10872+44.31 WILL BE INSTALLED UNDER THE P-5208H CONTRACT

NAD 83/NSRS 2007



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PROJECT REFERENCE NO.	SHEET NO.
P-5208G	EC-47/CONST.25

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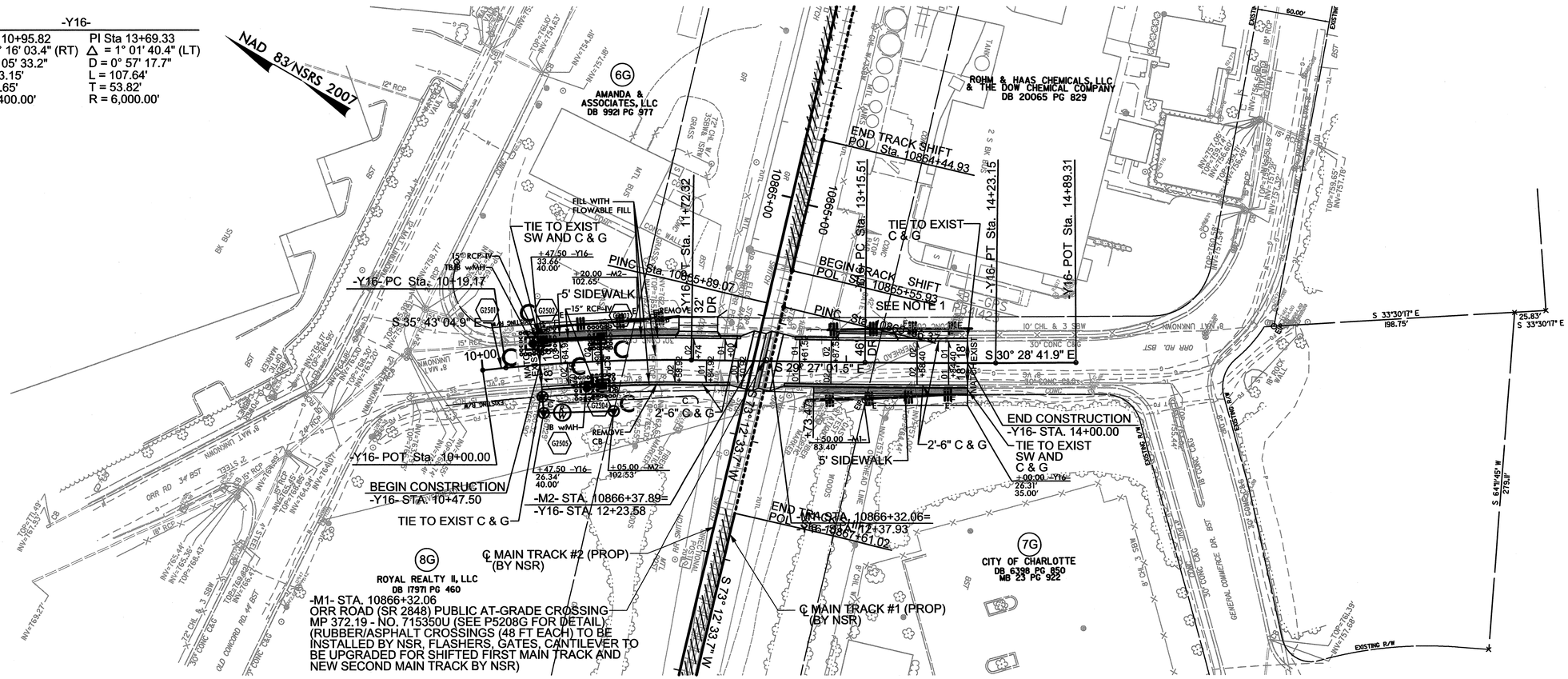
KANNAPOLIS

CHARLOTTE

-Y16-

PI Sta 10+95.82	PI Sta 13+69.33
Δ = 6° 16' 03.4" (RT)	Δ = 1° 01' 40.4" (LT)
D = 4° 05' 33.2"	D = 0° 57' 17.7"
L = 153.15'	L = 107.64'
T = 76.65'	T = 53.82'
R = 1,400.00'	R = 6,000.00'



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