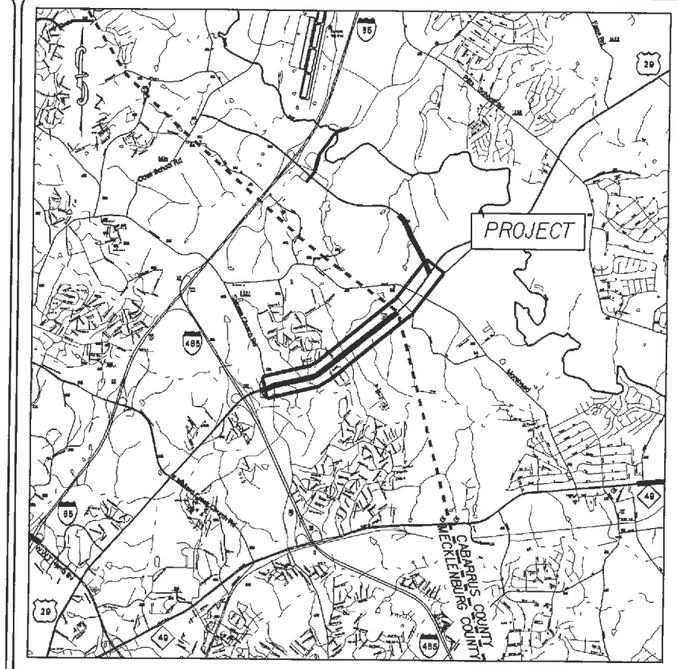
PROJECT: 45340.3.FR8 TIP:W-5210H



VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

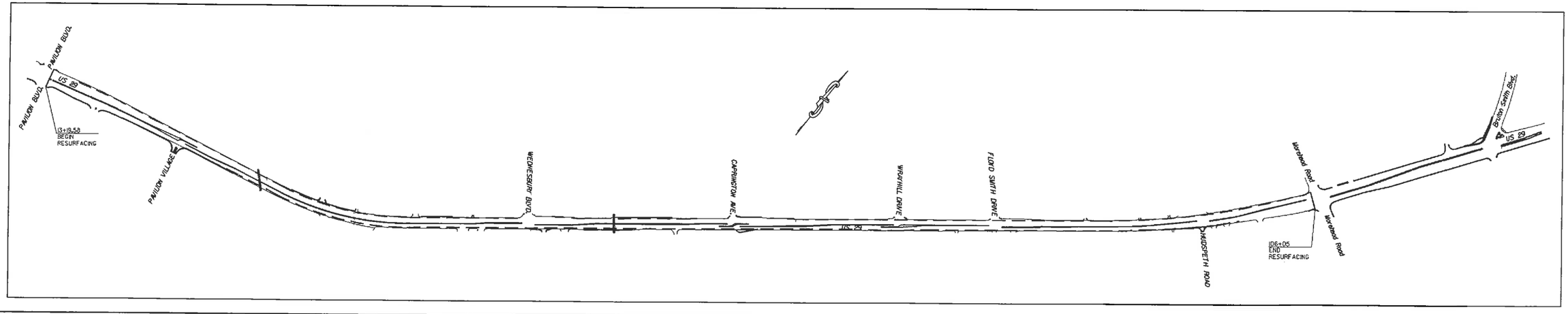
MECKLENBURG COUNTY & CABARRUS COUNTY

LOCATION: US 29 FROM PAVILION BLVD. TO BRUTON SMITH BLVD.

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CONCRETE ISLANDS & THERMOPLASTIC PAVEMENT MARKINGS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
45340.1.FR8	HSIP-0029(60)	P.E.
45340.2.FR8		R/W
45340.3.FR8		CONST.



GRAPHIC SCALES

0 50 100 PLANS

0 50 100 PROFILE (HORIZONTAL)

0 5 10 PROFILE (VERTICAL)

DESIGN DATA

ADT =

ADT =

DHV = %

D = %

T = %

V = MPH

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT 45340.3.FR8 = 1.98 MILES

TOTAL LENGTH OF STATE PROJECT 45340.3.FR8 = 1.98 MILES

Prepared In the Office of:

DIVISION OF HIGHWAYS

DIVISION TEN

DIVISION DESIGN / CONSTRUCT UNIT

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

August 27, 2014

RANDY BOWERS
PROJECT ENGINEER

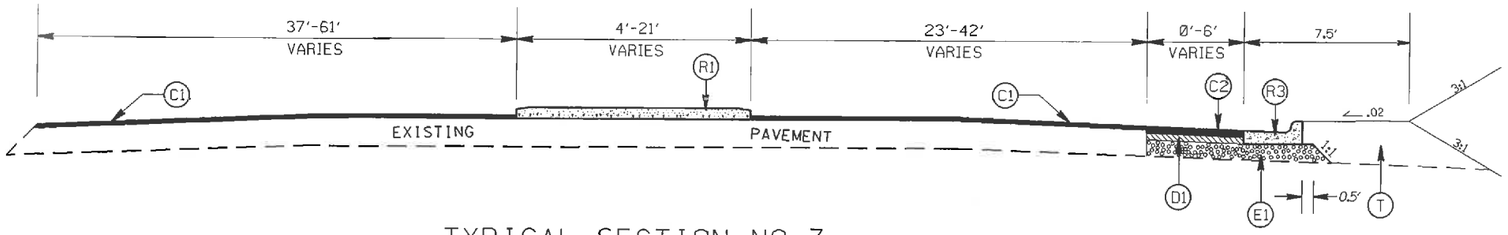
TERRY BURLESON
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

APPROVED BY
DDC ENGINEER DATE

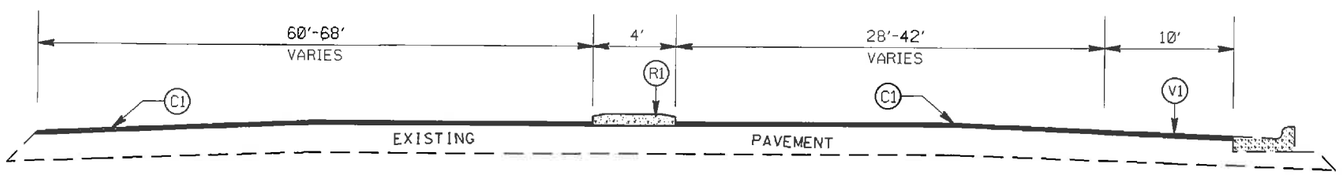
04-AUG-2014 11:28
S:\DDC\RDY\Mecklenburg\us 29 pavillion to
jdharward AT D10DIVCAD258894

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2	
F.A. PROJECT NO.			



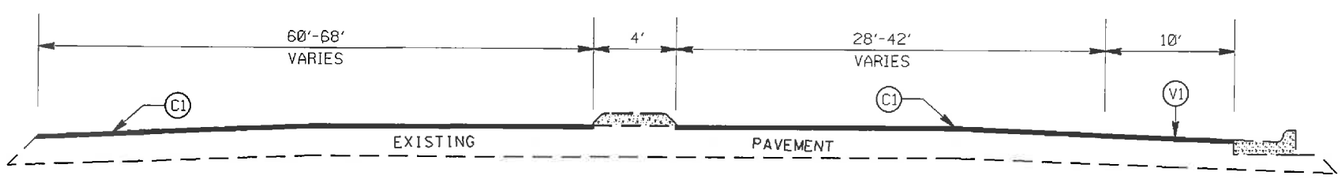
TYPICAL SECTION NO.3

STA 19+12 TO 24+06.61 -L-



TYPICAL SECTION NO.2

STA 17+85 TO 19+12 -L-



TYPICAL SECTION NO.1

STA 13+19 TO 17+85 -L-

PAVEMENT SCHEDULE

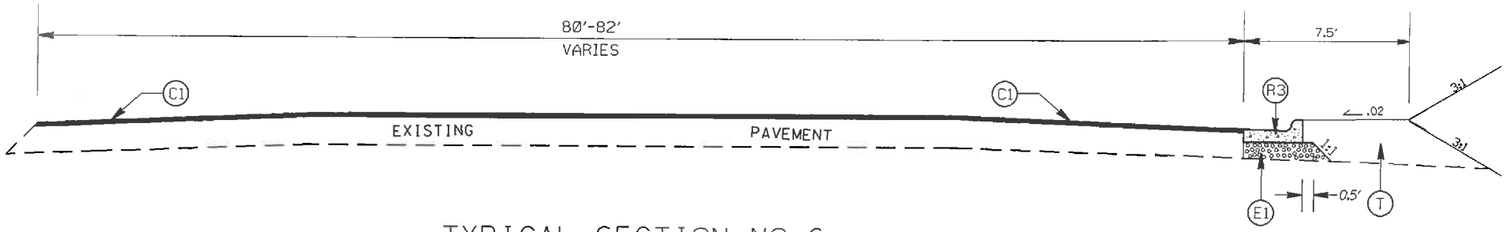
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
R2	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
R3	PROP. 2'-6" CURB & GUTTER
R4	PROP. 1'-6" CURB & GUTTER
R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	5/14
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

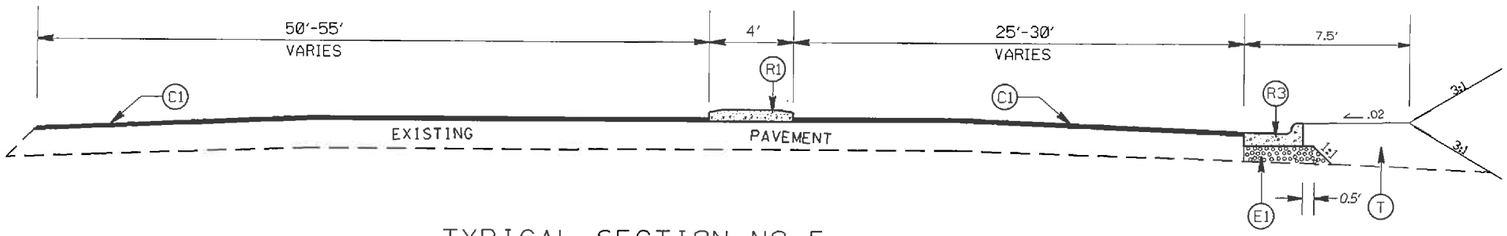
REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2A	
F.A. PROJECT NO.			



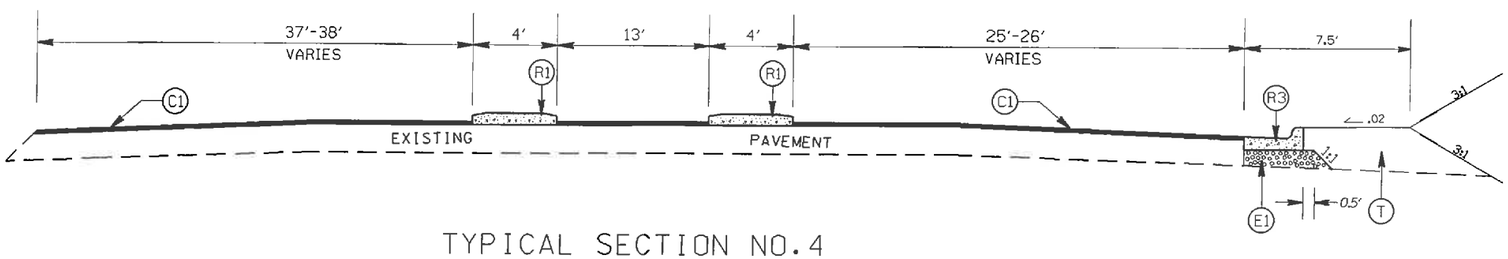
TYPICAL SECTION NO.6

STA 26+86.08 TO 28+08.61 -L-



TYPICAL SECTION NO.5

STA 24+92.05 TO 26+86.08 -L-



TYPICAL SECTION NO.4

STA 24+06.61 TO 24+92.05 -L-

PAVEMENT SCHEDULE

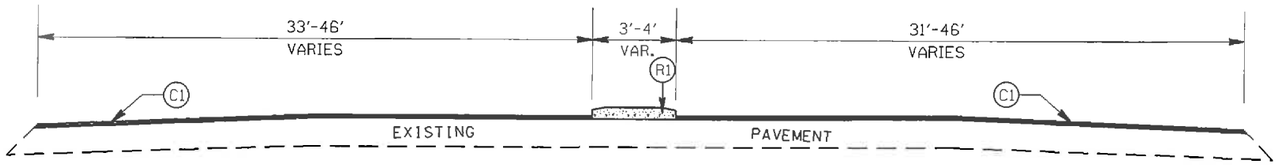
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
R2	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
R3	PROP. 2'-6" CURB & GUTTER
R4	PROP. 1'-6" CURB & GUTTER
R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	5/14
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

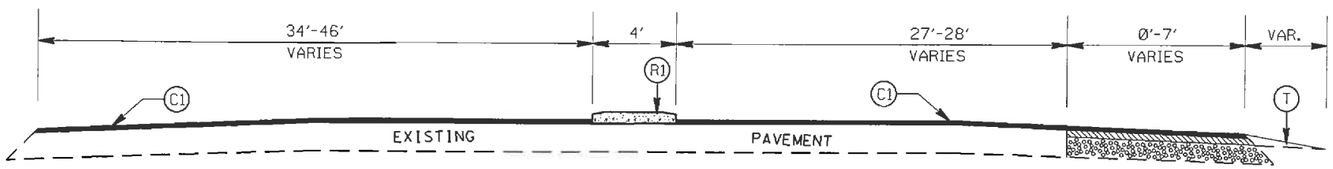
REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2B	
F.A. PROJECT NO.			



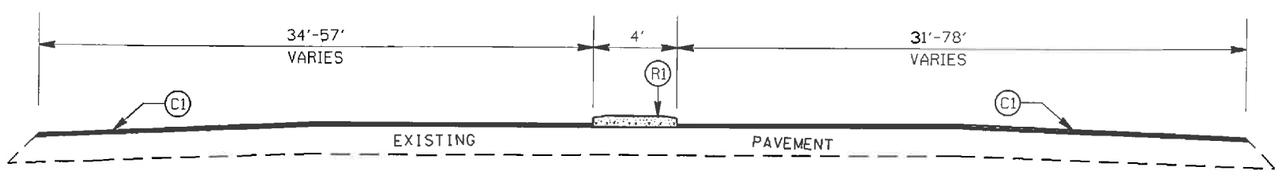
TYPICAL SECTION NO.9

STA 60+94 TO 62+43.89 -L-
STA 66+54.79 TO 68+04.82 -L-
STA 69+45.39 TO 71+63.57 -L-



TYPICAL SECTION NO.8

STA 95+08.49 TO 99+41.98 -L-



TYPICAL SECTION NO.7

STA 28+08.61 TO 60+94 -L-
STA 68+04.82 TO 69+45.39 -L-
STA 78+42.64 TO 95+08.49 -L-
STA 99+41.98 TO 105+65.44 -L-

PAVEMENT SCHEDULE

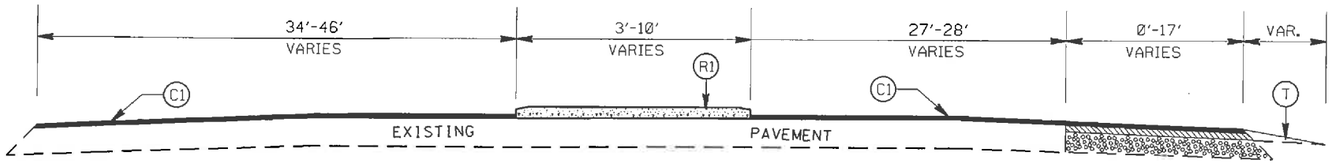
C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
R2	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
R3	PROP. 2'-6" CURB & GUTTER
R4	PROP. 1'-6" CURB & GUTTER
R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	5/14
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

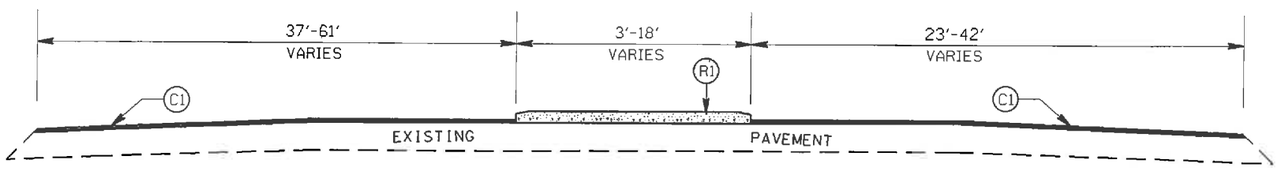
REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2C	
F.A. PROJECT NO.			



TYPICAL SECTION NO.12

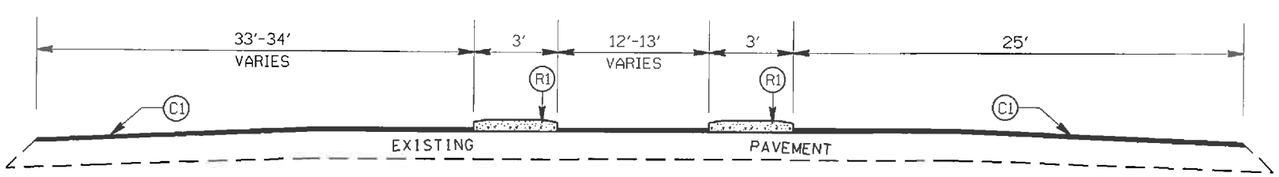
STA 64+68.47 TO 64+93.89 -L-



TYPICAL SECTION NO.11

STA 64+04.83 TO 64+68.47 -L-

STA 75+92.64 TO 78+42.64 -L-



TYPICAL SECTION NO.10

STA 63+43.89 TO 64+04.83 -L-

STA 75+02.65 TO 75+92.64 -L-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	PROP. 5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
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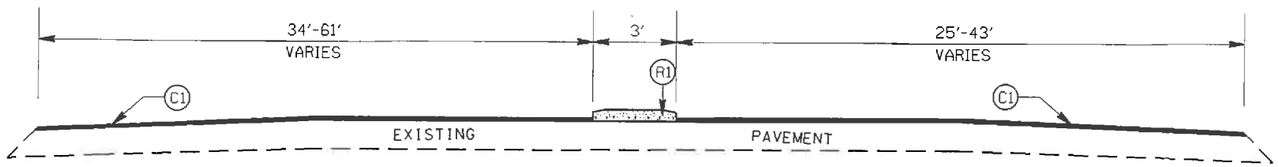
R3	PROP. 2'-6" CURB & GUTTER
R4	PROP. 1'-6" CURB & GUTTER
R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	5/14
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

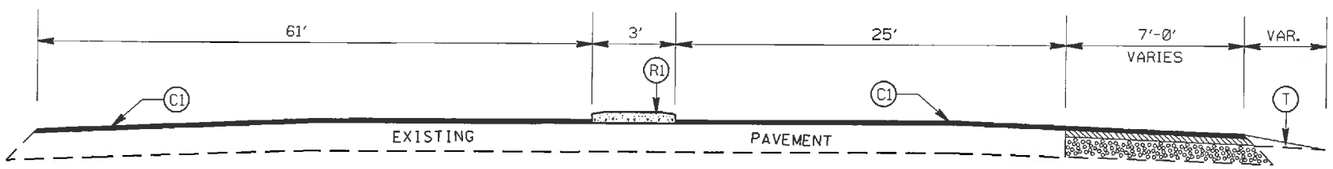
REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2D	
F.A. PROJECT NO.			



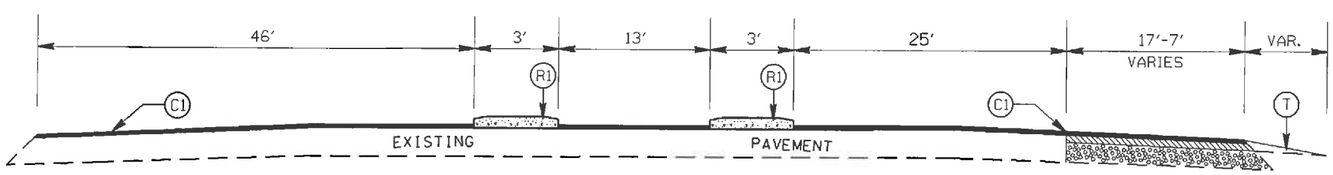
TYPICAL SECTION NO.15

STA 62+43.86 TO 63+43.89 -L-
STA 65+94.43 TO 66+54.79 -L-
STA 71+63.57 TO 75+02.65 -L-



TYPICAL SECTION NO.14

STA 65+54.83 TO 65+94.43 -L-



TYPICAL SECTION NO.13

STA 64+93.89 TO 65+54.83 -L-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D1	PROP. APPROX. 4" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
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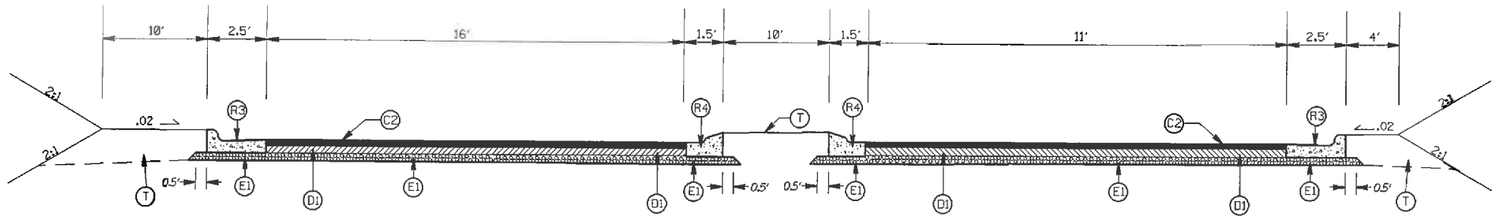
R2	PROP. 5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
R3	PROP. 2'-6" CURB & GUTTER
R4	PROP. 1'-6" CURB & GUTTER
R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

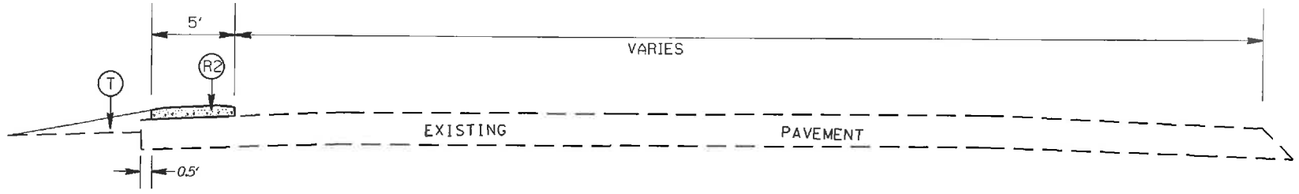
SCALE	1"=50'	REVISIONS
DATE	5/14	
DWG. BY	JDH	
DESIGN BY	JDH	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2E	
F.A. PROJECT NO.			



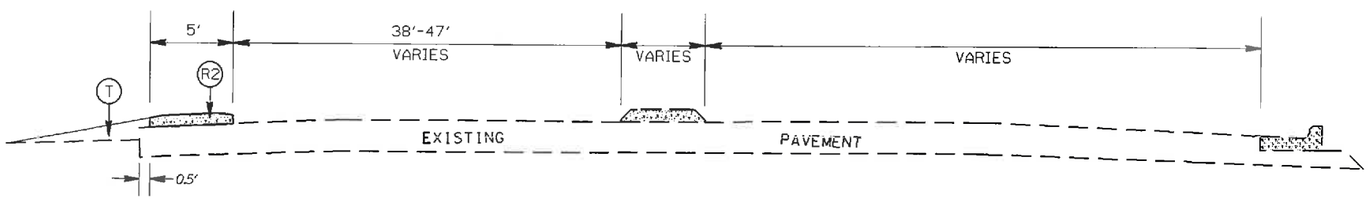
TYPICAL SECTION NO. 18

STA 11+88.30 TO 12+54.20 -Y2-
PAVILION VILLAGE DRIVE.



TYPICAL SECTION NO.17

STA 10+28.82 TO 12+17.45 -Y-



TYPICAL SECTION NO.16

STA 117+73.31 TO 118+86.49 -L-

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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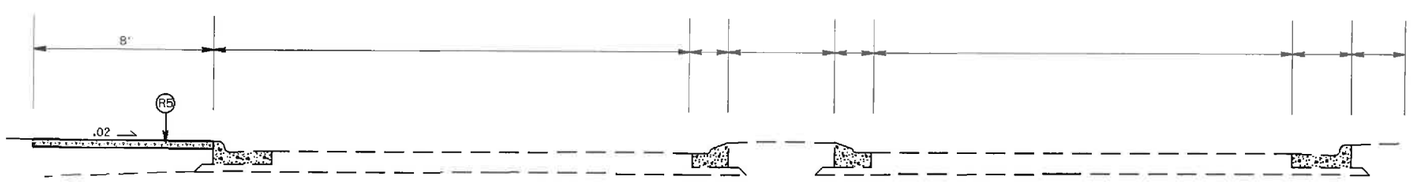
R3	PROP. 2'-6" CURB & GUTTER
R4	PROP. 1'-6" CURB & GUTTER
R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	5/14
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2F	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 19

MOREHEAD ROAD

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1½' ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3' ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
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R5	PROP. 4" CONCRETE SIDEWALK
T	EARTH MATERIAL
V1	MILLING ASPHALT PAVEMENT, 0" TO 1.5" IN DEPTH

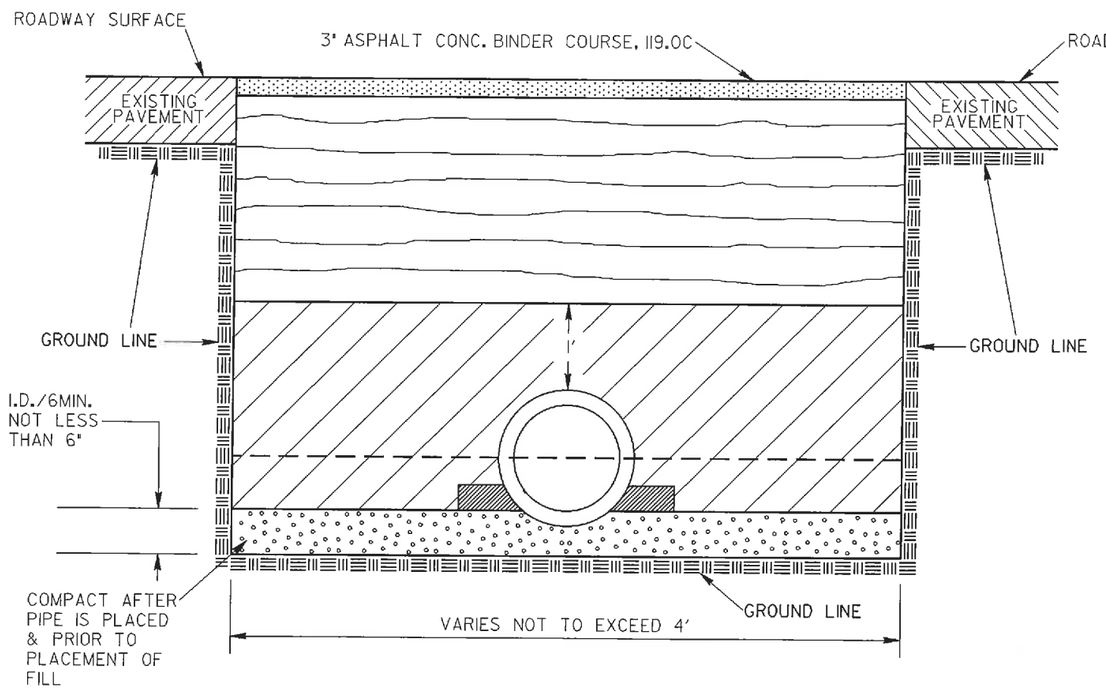
US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	5/14
DWG. BY	JDH
DESIGN BY	JDH
APPROVED	RWB

REVISIONS

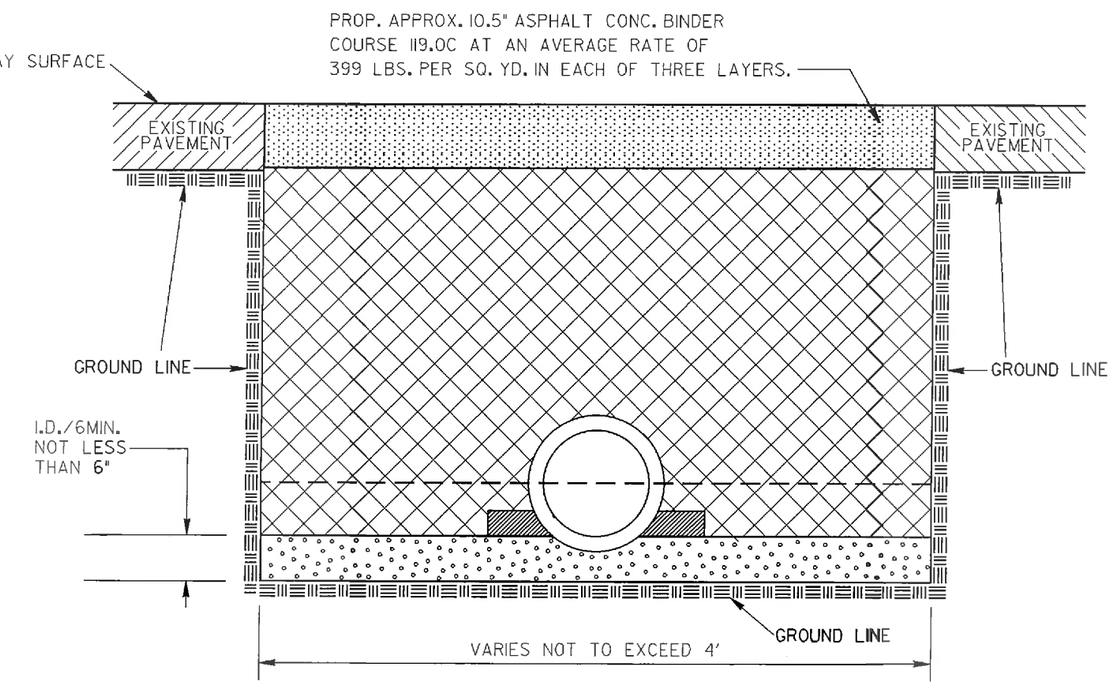
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	2G	
F.A. PROJECT NO.			

MEDIAN PIPE INSTALLATION



NORMAL EARTH FOUNDATION

CROSSLINE PIPE INSTALLATION



NORMAL EARTH FOUNDATION

GENERAL NOTES:

- — — — SPRINGLINE OF PIPE
- TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL
- LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE I FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.
- SELECT BACKFILL MATERIAL CLASS III OR CLASS II, TYPE I ABOVE AND BELOW SPRINGLINE.
- APPROVED SUITABLE LOCAL MATERIAL.
- SELECT GRANULAR MATERIAL CLASS II, TYPE I.
- UNDISTURBED EARTH MATERIAL

US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD.

		REVISIONS	
SCALE	1"=50'		
DATE	5/14		
DWG. BY	JDH		
DESIGN BY	JDH		
APPROVED	RWB		

COMPUTED BY: JDH DATE: 5/14
CHECKED BY: RWB DATE: 5/14

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO.	SHEET NO.
45340.3.FR8	3

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION / SIZE / THICKNESS OR GAUGE | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE 12" .064 | 15" .064 | 18" .064 | 24" .064 | 30" .079 | 30" .079 | 36" .109 | 42" .109 | 48" .109 | CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | LIN. FT. A 5.0' THRU 10.0' | LIN. FT. B 10.0' AND ABOVE | * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | TRAFFIC BEARING J.B. STD. 840.34 | TRAFFIC BEARING GRATED D.I. STD. 840.35 | RAISE EXISTING GRATE | M.H. FRAME & COVER STD. 840.54 | OFFSET CATCH BASIN | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

COMPUTED BY: JDH DATE: 5/14
CHECKED BY: RWB DATE: 5/14

PROJECT REFERENCE NO.	SHEET NO.
45340.3.FR8	3A

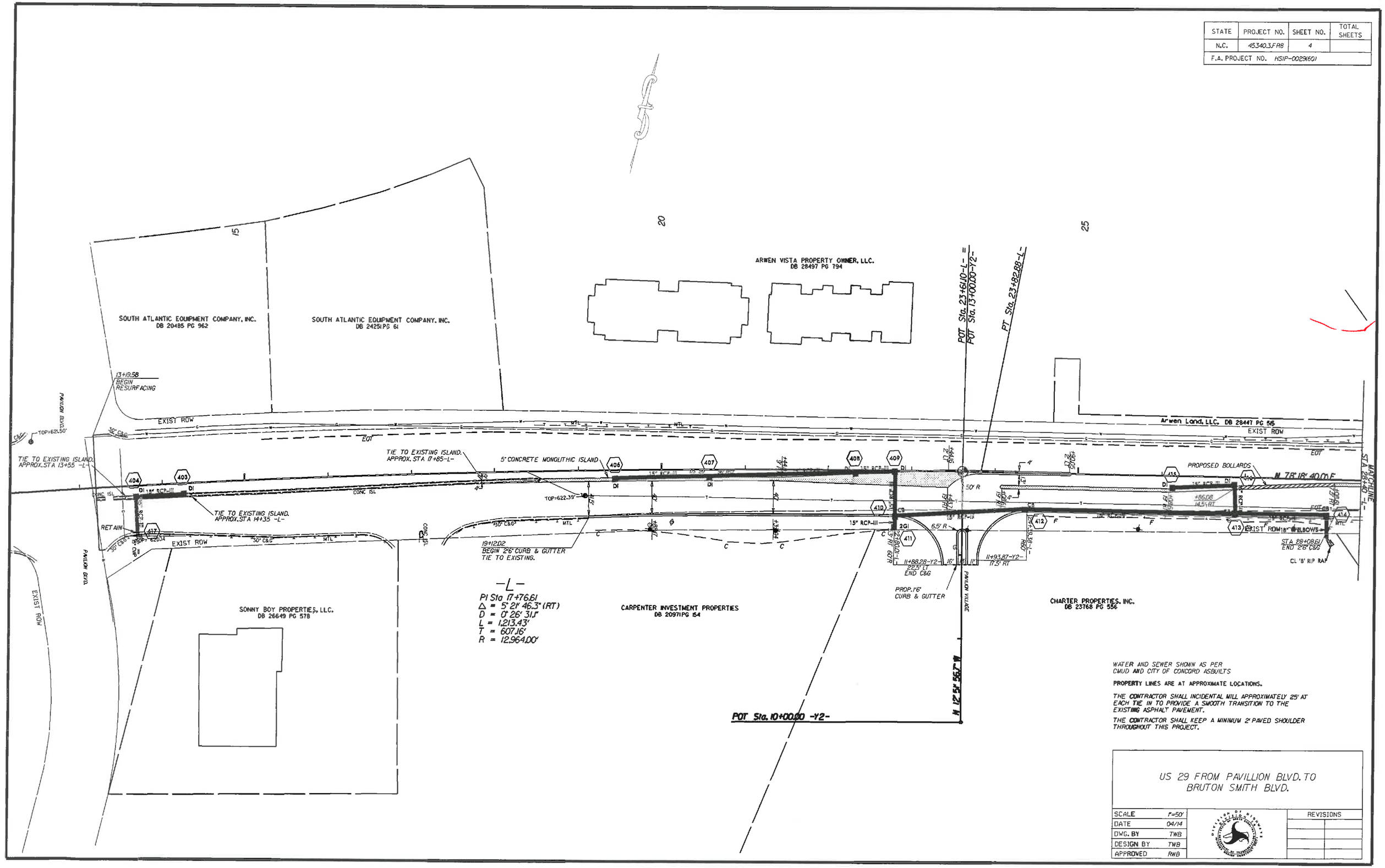
NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

| STATION | LOCATION (LT, RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | C.S. PIPE 12" THICKNESS OR GAUGE | 15" .064 | 18" .064 | 18" .064 | 24" .064 | 24" .079 | 30" .079 | 30" .079 | 36" .109 | 36" .109 | 42" .109 | 42" .109 | 48" .109 | CLASS III R.C. PIPE OR ALUMINIZED C.S. PIPE, TYPE IR OR HDPE PIPE, TYPE S OR D 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | 24" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | CU. YDS. C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | LIN. FT. A 5.0' THRU 10.0' | LIN. FT. B 10.0' AND ABOVE | * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL."B") | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME & GRATE STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. FRAME WITH GRATE STD. 840.22 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | TRAFFIC BEARING J.B. STD. 840.34 | TRAFFIC BEARING GRATED D.I. STD. 840.35 | RAISE EXISTING GRATE | M.H. FRAME & COVER STD. 840.54 | OFFSET CATCH BASIN | | CORR. STEEL ELBOWS NO. & SIZE | CONC. COLLARS CL. "B" C.Y. STD 840.72 | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	4	
F.A. PROJECT NO. HSIP-0029(60)			



WATER AND SEWER SHOWN AS PER CMUD AND CITY OF CONCORD ASBUILTS

PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

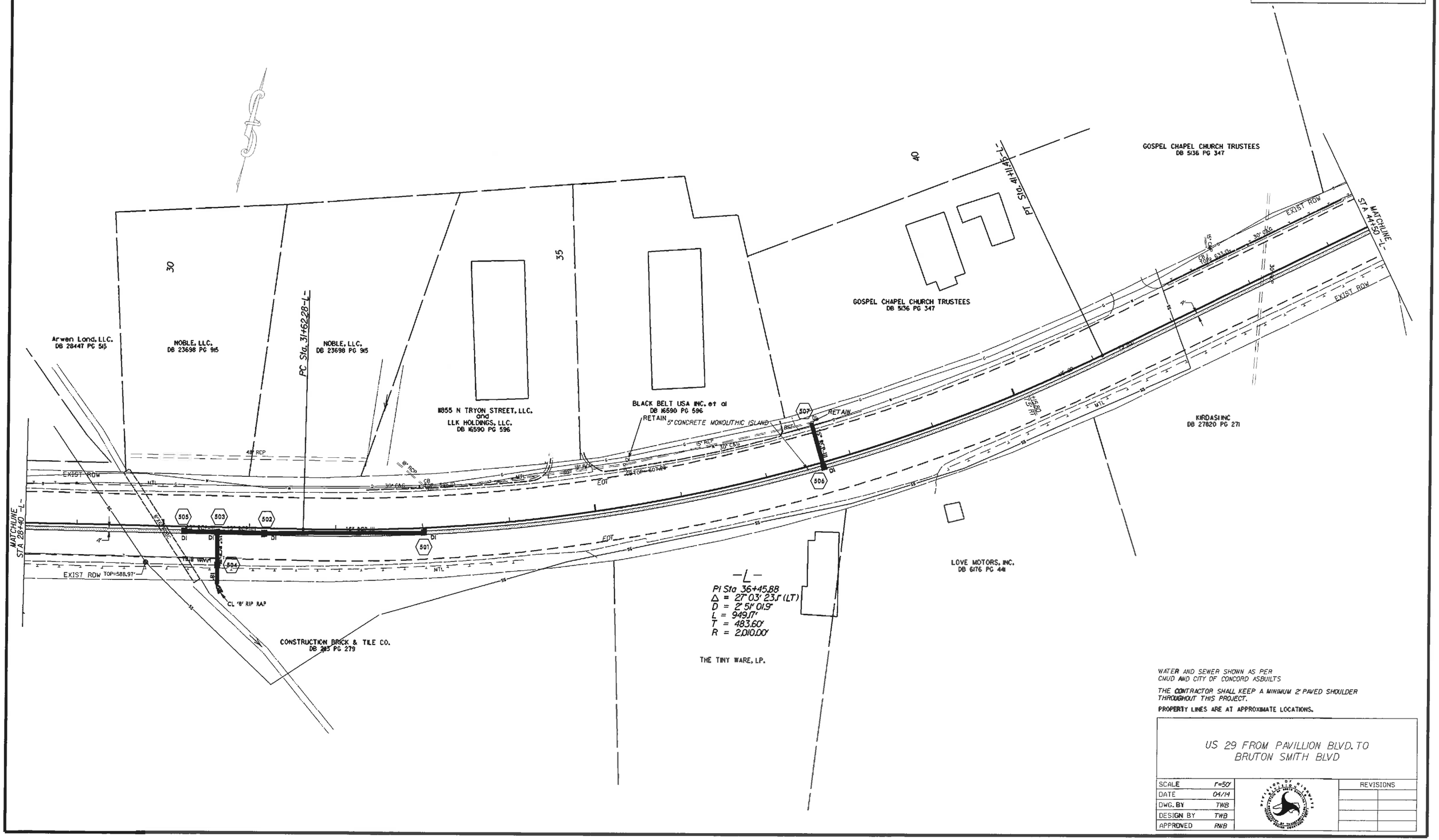
THE CONTRACTOR SHALL INCIDENTAL WILL APPROXIMATELY 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

THE CONTRACTOR SHALL KEEP A MINIMUM 2' PAVED SHOULDER THROUGHOUT THIS PROJECT.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD.

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FRB	5	
F.A. PROJECT NO. HSIP-0029(60)			



WATER AND SEWER SHOWN AS PER
CMUD AND CITY OF CONCORD ASBUILTS

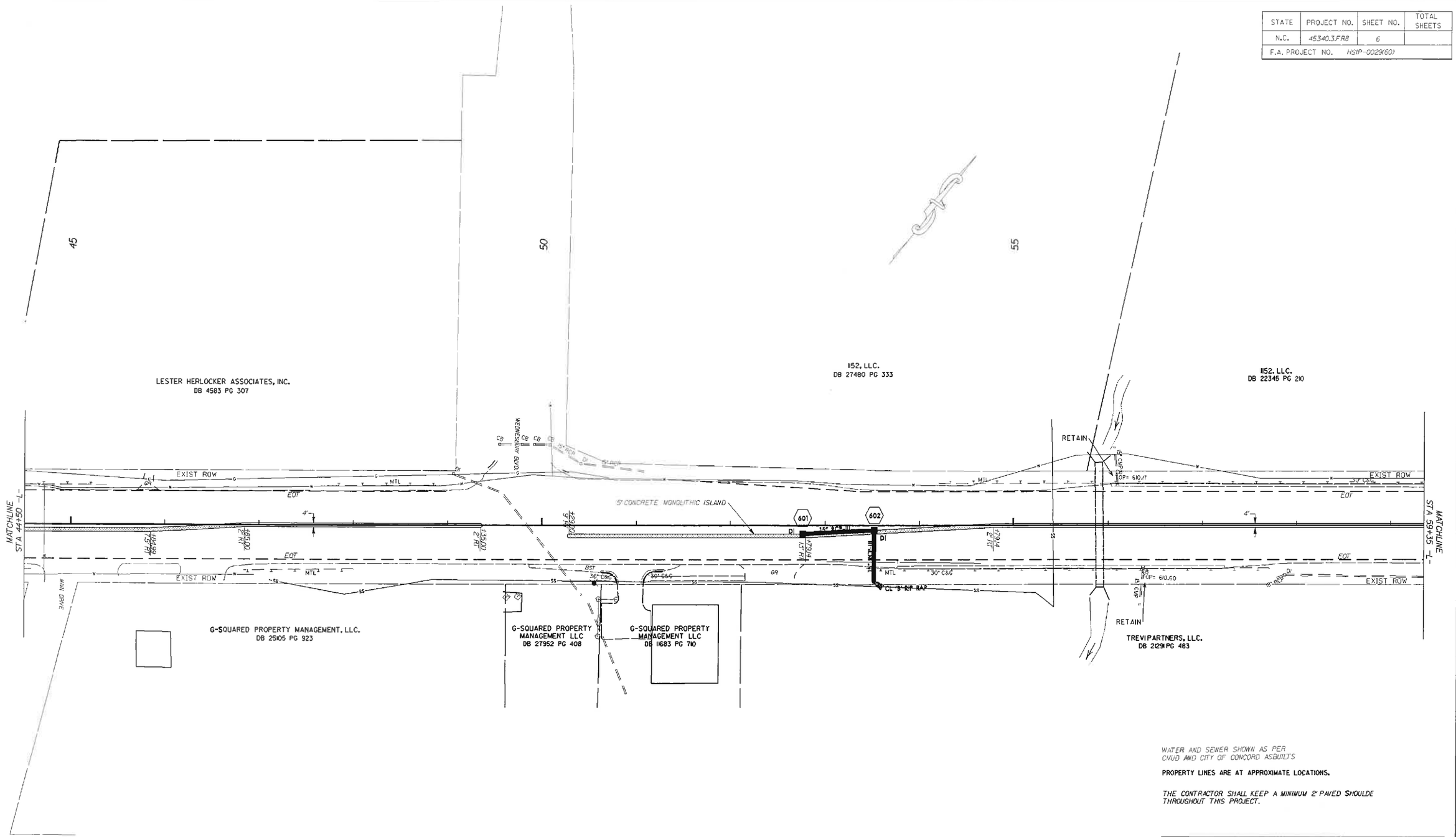
THE CONTRACTOR SHALL KEEP A MINIMUM 2' PAVED SHOULDER THROUGHOUT THIS PROJECT.

PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

US 29 FROM PAVILLION BLVD. TO
BRUTON SMITH BLVD

SCALE	1"=50'	REVISIONS
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	6	
F.A. PROJECT NO.	HSIP-0029(60)		



WATER AND SEWER SHOWN AS PER CMUD AND CITY OF CONCORD ASBUILTS

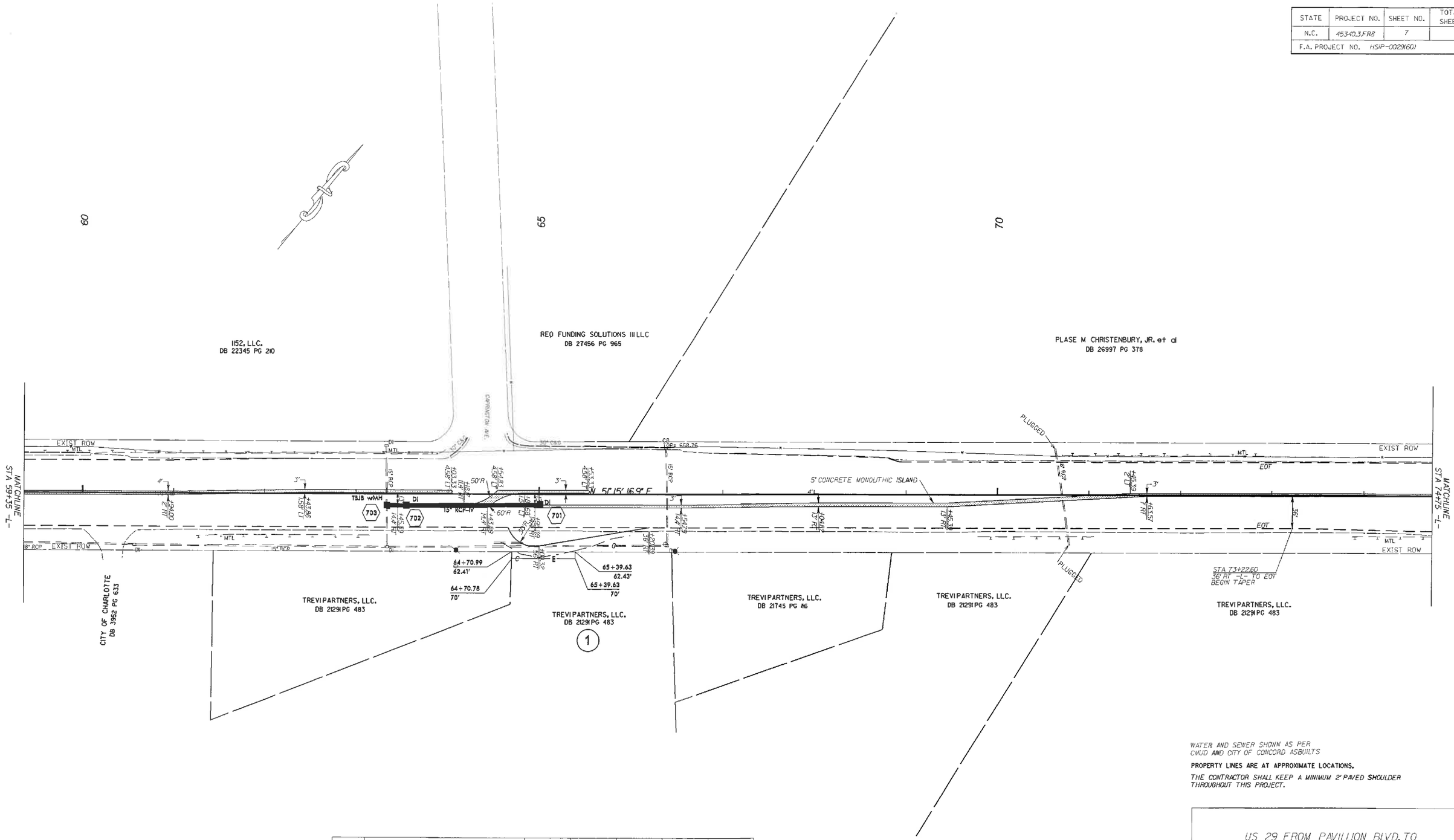
PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

THE CONTRACTOR SHALL KEEP A MINIMUM 2' PAVED SHOULDE THROUGHOUT THIS PROJECT.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	7	
F.A. PROJECT NO. HSIP-0029(60)			



WATER AND SEWER SHOWN AS PER CMUD AND CITY OF CONCORD ASBUILTS

PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

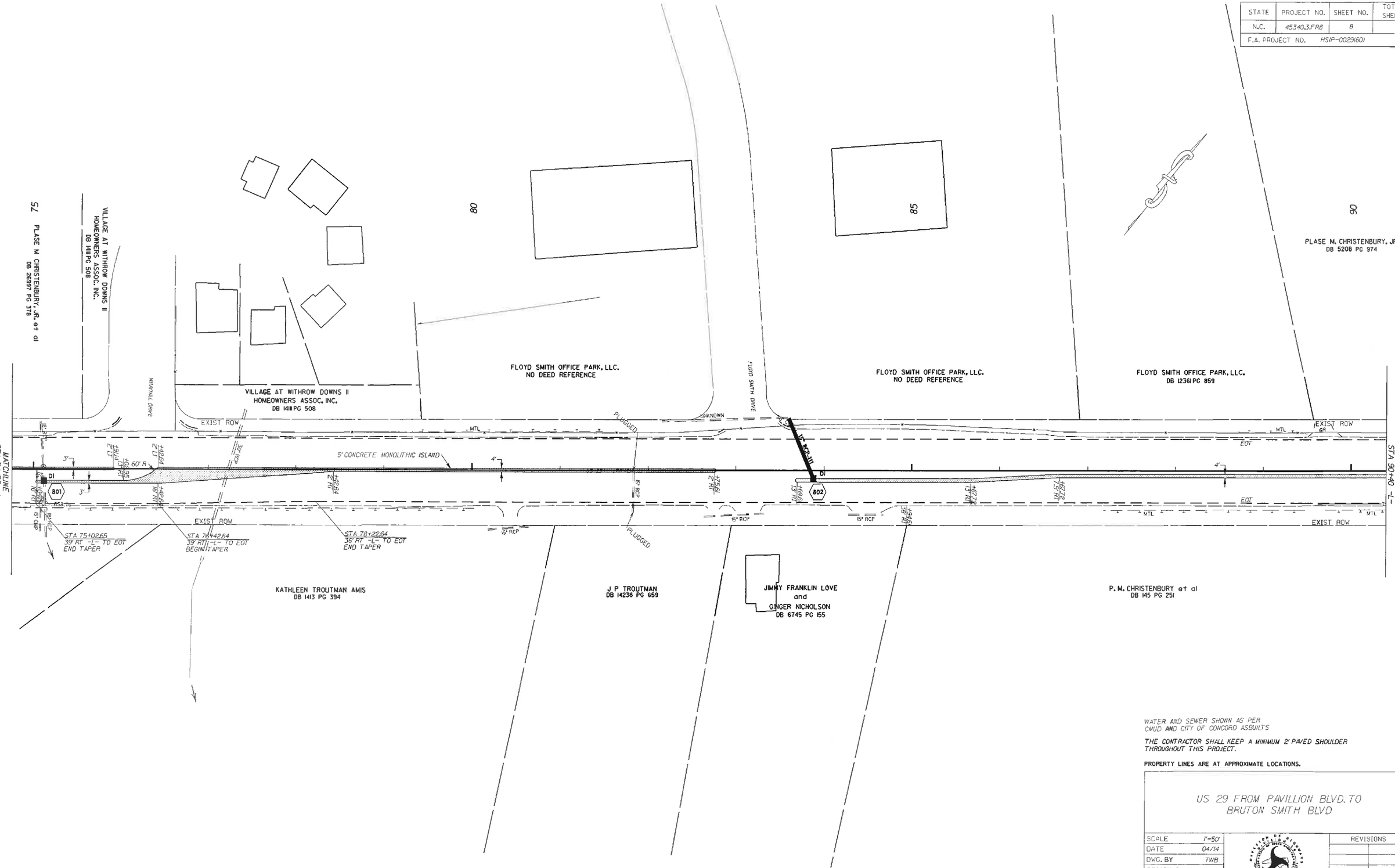
THE CONTRACTOR SHALL KEEP A MINIMUM 2' PAVED SHOULDER THROUGHOUT THIS PROJECT.

PARCEL NO.	PARCEL OWNER	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING	TEMP. CONST. EASE.	PERM. DRAIN. EASE.
1	TREVI PARTNERS, LLC.	N/A	N/A	N/A	521 S.F.	N/A

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS	
SCALE	1"=50'		
DATE	04/14		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	8	
F.A. PROJECT NO.	HSIP-0029(60)		



WATER AND SEWER SHOWN AS PER
CMUD AND CITY OF CONCORD ASBUILTS

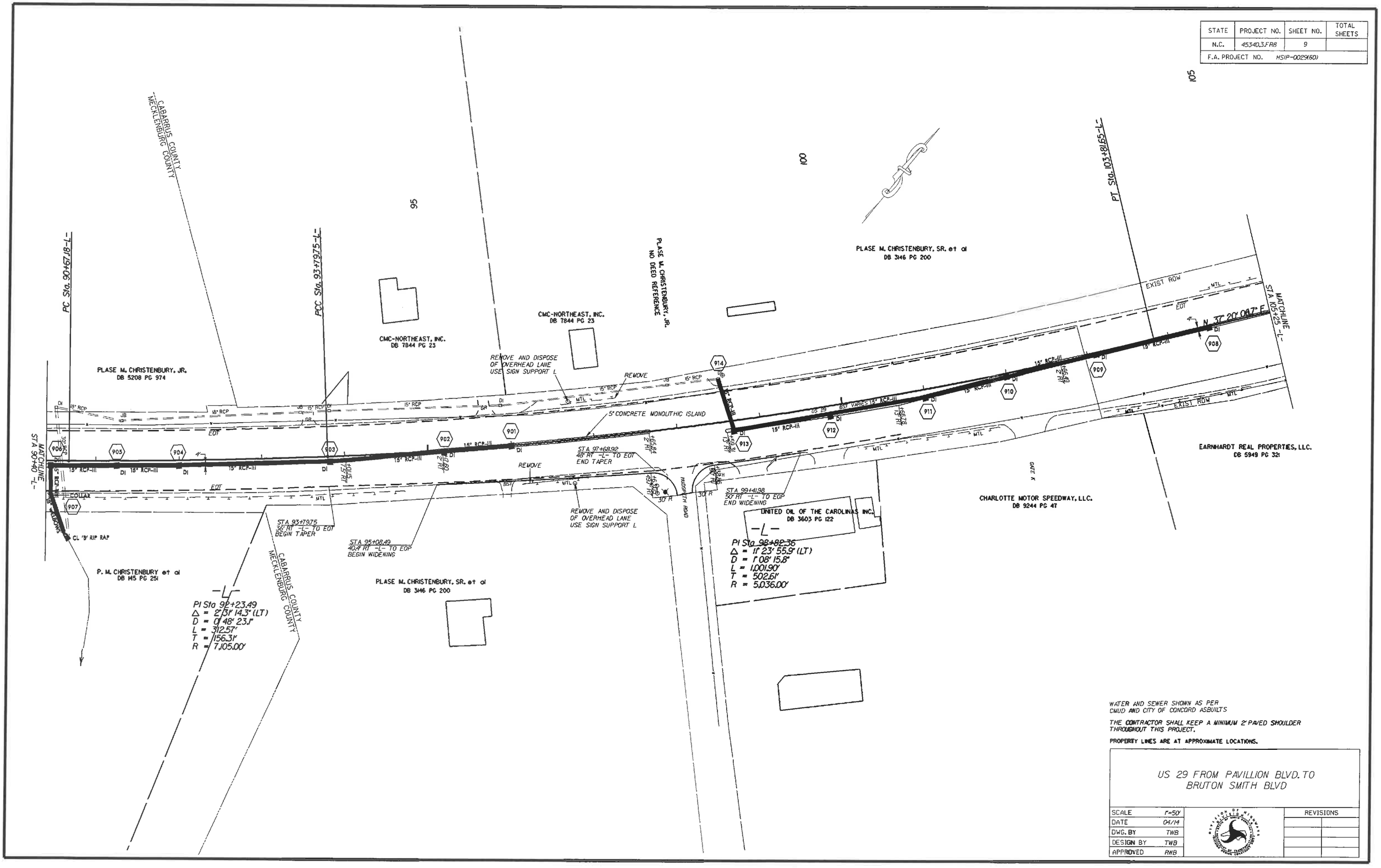
THE CONTRACTOR SHALL KEEP A MINIMUM 2' PAVED SHOULDER THROUGHOUT THIS PROJECT.

PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

US 29 FROM PAVILLION BLVD. TO
BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	9	
F.A. PROJECT NO.	HSIP-0029(60)		



WATER AND SEWER SHOWN AS PER CMUD AND CITY OF CONCORD ASBUILTS

THE CONTRACTOR SHALL KEEP A MINIMUM 2' PAVED SHOULDER THROUGHOUT THIS PROJECT.

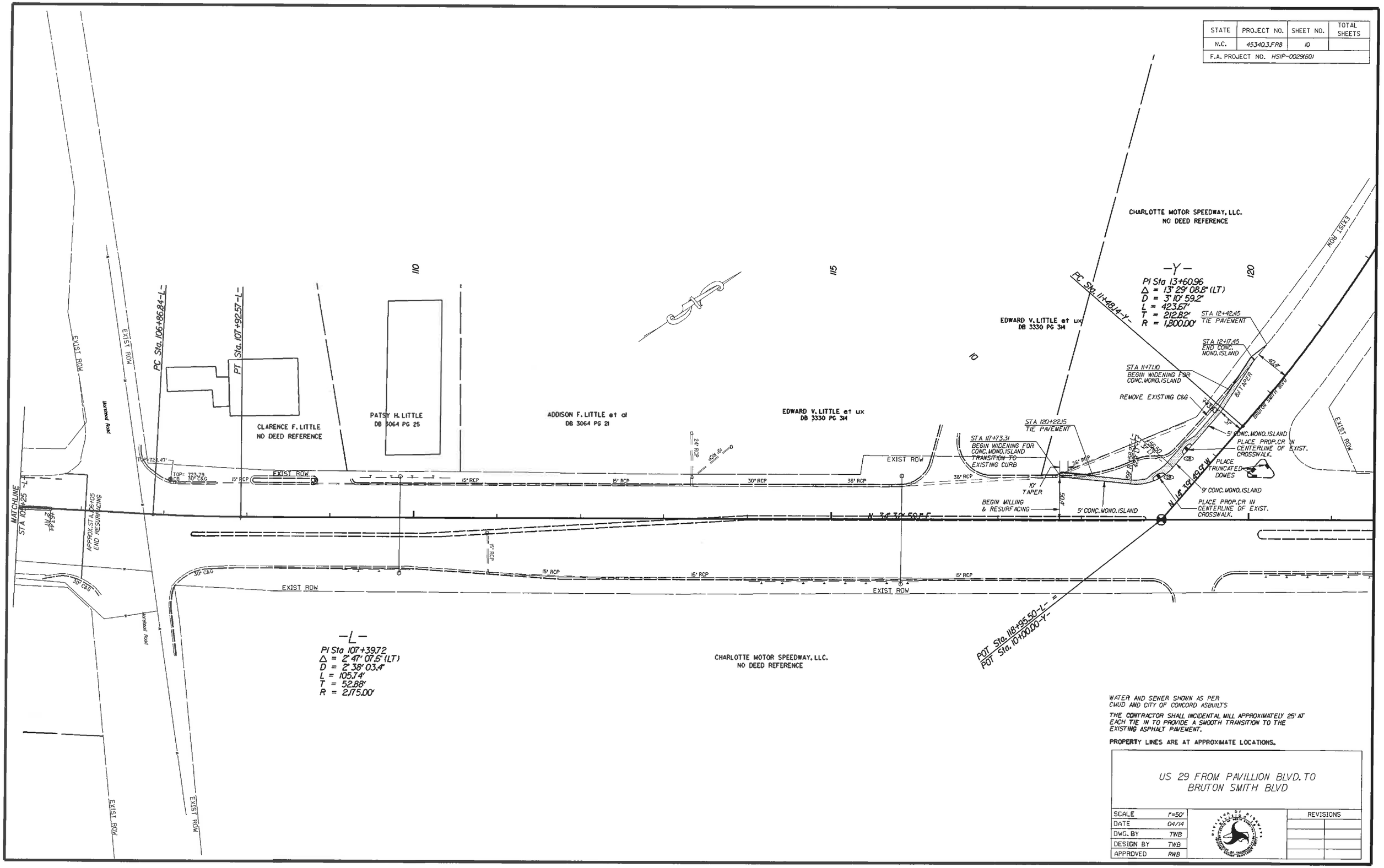
PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

SCALE	1"=50'
DATE	04/14
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	10	
F.A. PROJECT NO. HSIP-0029(60)			



WATER AND SEWER SHOWN AS PER CMUD AND CITY OF CONCORD ASBUILTS

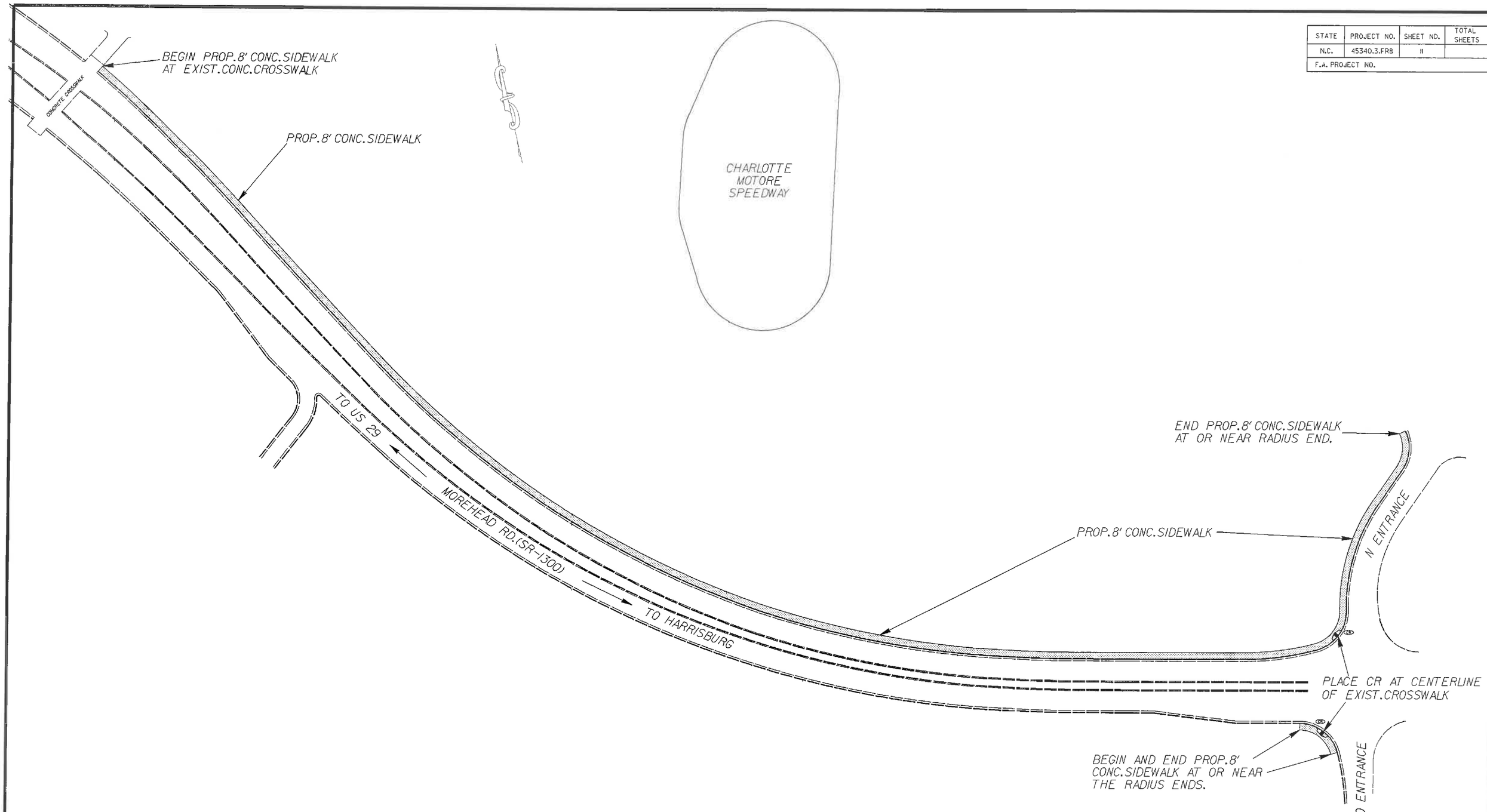
THE CONTRACTOR SHALL INCIDENTAL MILL APPROXIMATELY 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING ASPHALT PAVEMENT.

PROPERTY LINES ARE AT APPROXIMATE LOCATIONS.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

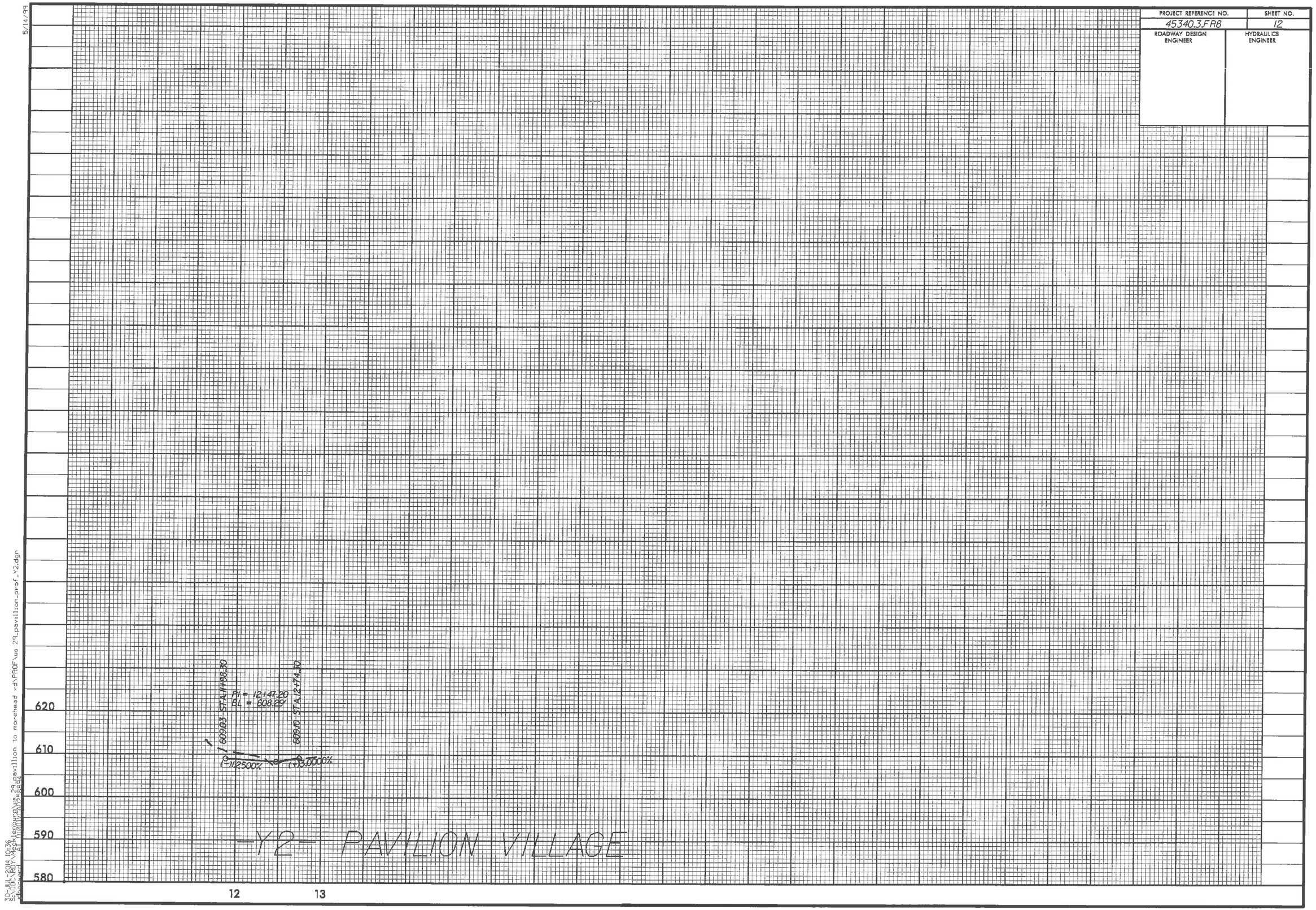
		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FRB	11	
F.A. PROJECT NO.			



US 29 FROM PAVILION BLVD. TO BRUTON SMITH BLVD.

		REVISIONS
SCALE	N/A	
DATE	7/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	


PROJECT REFERENCE NO.
45340.3.FR8
SHEET NO.
12
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
5/14/99
609.03 STA 11+88.30
PI = 12+47.20
EL = 608.29'
609.10 STA 12+74.30
(-)1.2500%
(+)3.0000%
620
610
600
590
580
12
13
-Y2- PAVILION VILLAGE
30-JUL-2014 10:36
S:\DOC\RDY\Mecklenburg\us 29_pavillion to morehead rd\PROF\us 29_pavillion_prof_Y2.dgn
jdharvard AT 01001VC0258894

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-1	
F.A. PROJECT NO. HSIP-0029(60)			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

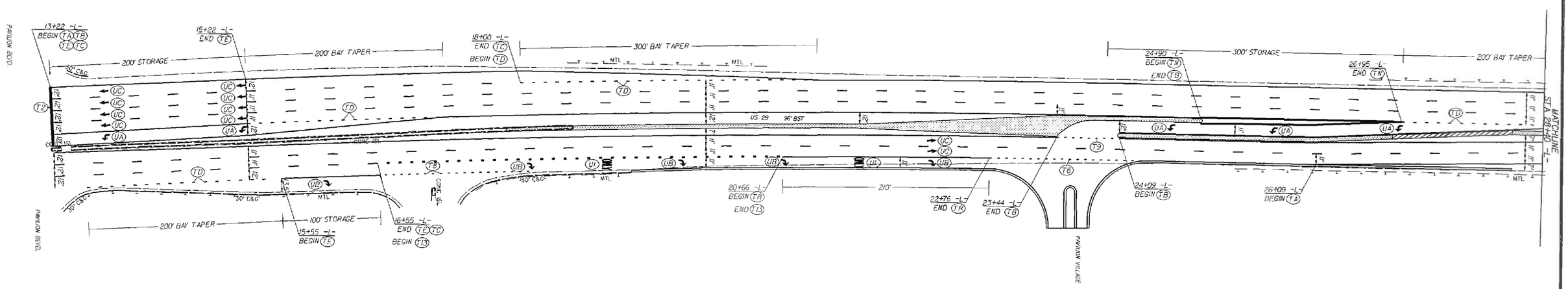
TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT. WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT. YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT. WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT. YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
TR - WHITE SOLID LANE LINE (8",120 MIL)
TS - WHITE GORELINE (12",90 MIL)
TT - WHITE SOLID LANE LINE (12",120 MIL)
TU - WHITE DIAGONAL (12",90 MIL)
TV - YELLOW DIAGONAL (12",90 MIL)
T1 - WHITE LINE, RR X (16",120 MIL)
T2 - WHITE STOPBAR (24",120 MIL)
T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
T6 - WHITE EDGELINE (6",90 MIL)
T7 - YELLOW EDGELINE (6",90 MIL)
T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
T9 - 2FT.-6FT./SP YELLOW MINISKIP (4",120 MIL)
T10 - 3FT.-3FT./SP WHITE MINISKIP (12",120 MIL)
T11 - 2FT.-6FT./SP WHITE MINISKIP (6",120 MIL)
T12 - 2FT.-6FT./SP YELLOW MINISKIP (6",120 MIL)
T13 - 3FT.-9FT./SP WHITE MINISKIP (8",120 MIL)
T14 - 3FT.-9FT./SP WHITE MINISKIP (12",120 MIL)
T15 - YELLOW SINGLE CENTER (6",120 MIL)
T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR. (120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
UL - BICYCLE CHAR. (120 MIL)
UM - 12" YIELD LINE TRIANGLE (90 MIL)
UN - 24" YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
UP - MERGE ARROW (90 MIL)
UQ - RAMP ARROW SYMBOL (90 MIL)
UR - SHARROW (90 MIL)
US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)
WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD.

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-2	
F.A. PROJECT NO. HSIP-0029(60)			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT. WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT. YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT. WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT. YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
TR - WHITE SOLID LANE LINE (8",120 MIL)
TS - WHITE GORELINE (12",90 MIL)
TT - WHITE SOLID LANE LINE (12",120 MIL)
TU - WHITE DIAGONAL (12",90 MIL)
TV - YELLOW DIAGONAL (12",90 MIL)
TI - WHITE LINE, RR X (16",120 MIL)
T2 - WHITE STOPBAR (24",120 MIL)
T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
T6 - WHITE EDGELINE (6",90 MIL)
T7 - YELLOW EDGELINE (6",90 MIL)
T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
T9 - 2FT.-6FT./SP YELLOW MINISKIP (4",120 MIL)
T10 - 3FT.-3FT./SP WHITE MINISKIP (12",120 MIL)
T11 - 2FT.-6FT./SP WHITE MINISKIP (6",120 MIL)
T12 - 2FT.-6FT./SP YELLOW MINISKIP (6",120 MIL)
T13 - 3FT.-9FT./SP WHITE MINISKIP (8",120 MIL)
T14 - 3FT.-9FT./SP WHITE MINISKIP (12",120 MIL)
T15 - YELLOW SINGLE CENTER (6",120 MIL)
T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA - LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR. (120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
UL - BICYCLE CHAR. (120 MIL)
UM - 12" YIELD LINE TRIANGLE (90 MIL)
UN - 24" YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
UP - MERGE ARROW (90 MIL)
UQ - RAMP ARROW SYMBOL (90 MIL)
UR - SHARROW (90 MIL)
US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)
WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
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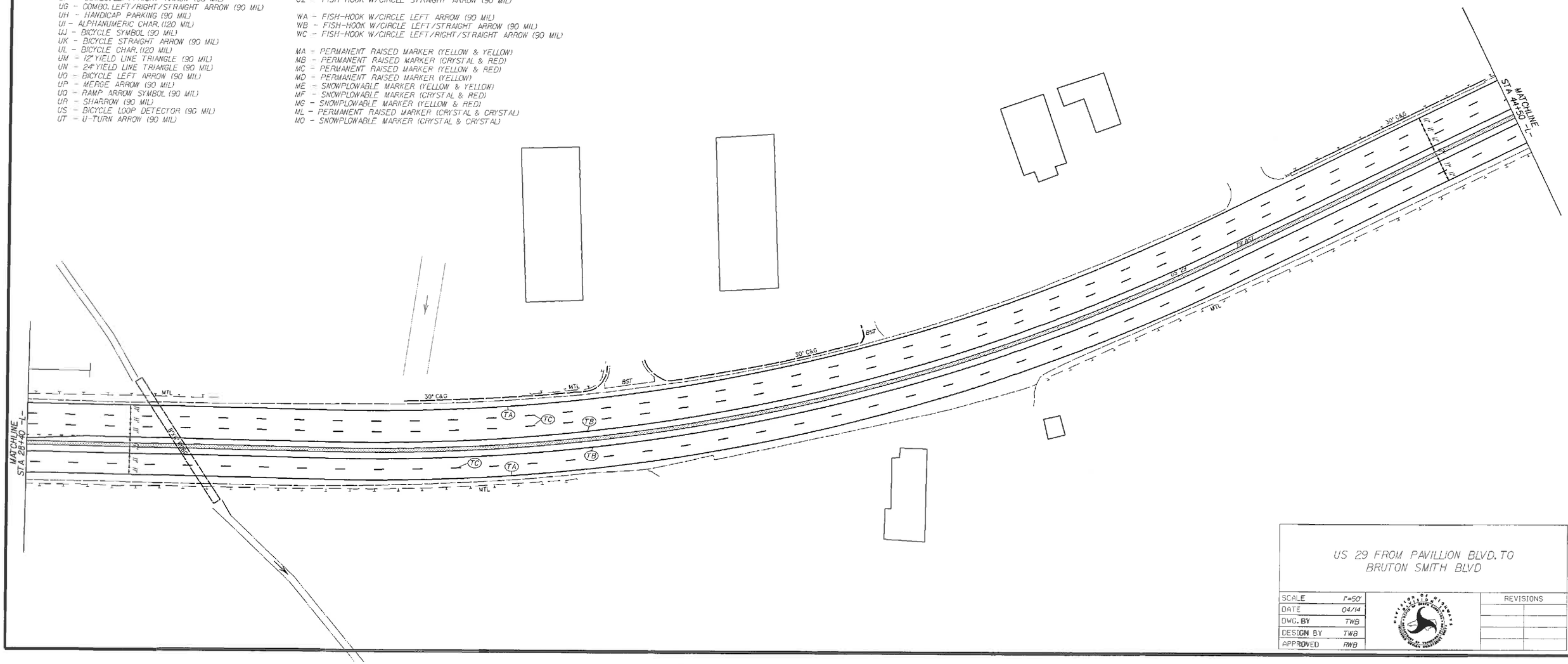
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



US 29 FROM PAVILLION BLVD. TO
BRUTON SMITH BLVD

SCALE	1"=50'
DATE	04/14
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-3	
F.A. PROJECT NO.	HSIP-0029(60)		

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

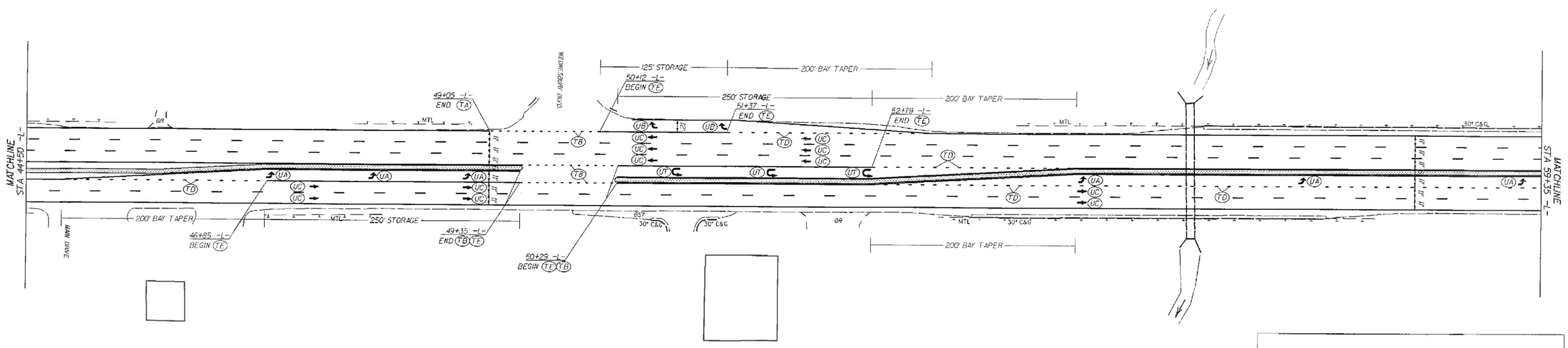
TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT. WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT. YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT. WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT. YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
TR - WHITE SOLID LANE LINE (8",120 MIL)
TS - WHITE GORELINE (12",90 MIL)
TT - WHITE SOLID LANE LINE (12",120 MIL)
TU - WHITE DIAGONAL (12",90 MIL)
TV - YELLOW DIAGONAL (12",90 MIL)
T1 - WHITE LINE, RR X (16",120 MIL)
T2 - WHITE STOPBAR (24",120 MIL)
T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
T6 - WHITE EDGELINE (6",90 MIL)
T7 - YELLOW EDGELINE (6",90 MIL)
T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
T9 - 2FT.-6FT./SP YELLOW MINISKIP (4",120 MIL)
T10 - 3FT.-3FT./SP WHITE MINISKIP (12",120 MIL)
T11 - 2FT.-6FT./SP WHITE MINISKIP (6",120 MIL)
T12 - 2FT.-6FT./SP YELLOW MINISKIP (6",120 MIL)
T13 - 3FT.-9FT./SP WHITE MINISKIP (8",120 MIL)
T14 - 3FT.-9FT./SP WHITE MINISKIP (12",120 MIL)
T15 - YELLOW SINGLE CENTER (6",120 MIL)
T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR. (120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
UL - BICYCLE CHAR. (120 MIL)
UM - 12" YIELD LINE TRIANGLE (90 MIL)
UN - 24" YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
UP - MERGE ARROW (90 MIL)
UQ - RAMP ARROW SYMBOL (90 MIL)
UR - SHARROW (90 MIL)
US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)
WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

SCALE	1"=50'
DATE	04/14
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-4	
F.A. PROJECT NO. HSIP-0029(60)			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT. WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT. YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT. WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT. YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
TQ - WHITE CROSSWALK LINE (8",120 MIL)
TR - WHITE SOLID LANE LINE (8",120 MIL)
TS - WHITE GORELINE (12",90 MIL)
TT - WHITE SOLID LANE LINE (12",120 MIL)
TU - WHITE DIAGONAL (12",90 MIL)
TV - YELLOW DIAGONAL (12",90 MIL)
T1 - WHITE LINE, RR X (16",120 MIL)
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T3 - WHITE CROSSWALK LINE (24",120 MIL)
T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
T6 - WHITE EDGELINE (6",90 MIL)
T7 - YELLOW EDGELINE (6",90 MIL)
T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
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T11 - 2FT.-6FT./SP WHITE MINISKIP (6",120 MIL)
T12 - 2FT.-6FT./SP YELLOW MINISKIP (6",120 MIL)
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T14 - 3FT.-9FT./SP WHITE MINISKIP (12",120 MIL)
T15 - YELLOW SINGLE CENTER (6",120 MIL)
T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR. (120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
UL - BICYCLE CHAR. (120 MIL)
UM - 12" YIELD LINE TRIANGLE (90 MIL)
UN - 24" YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
UP - MERGE ARROW (90 MIL)
UQ - RAMP ARROW SYMBOL (90 MIL)
UR - SHARROW (90 MIL)
US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
UU - FISH-HOOK STRAIGHT ARROW (90 MIL)
UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL)
UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)
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UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)

WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
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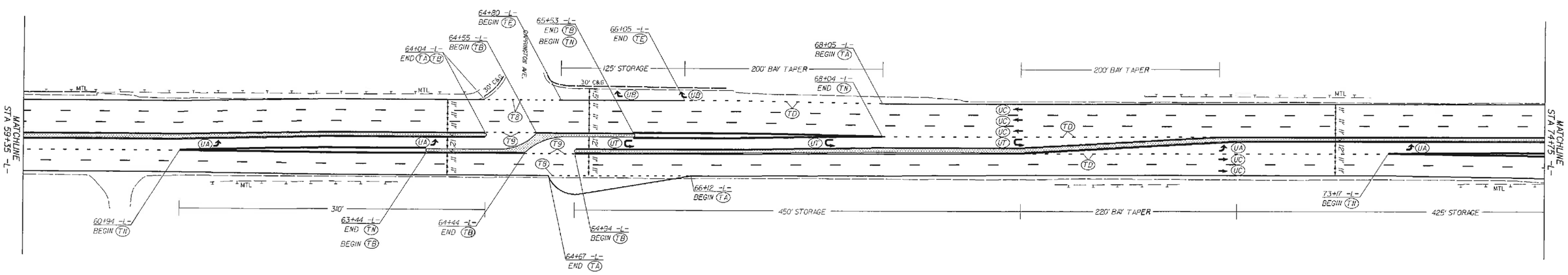
WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)



US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS	
SCALE	1"=50'		
DATE	04/14		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-5	
F.A. PROJECT NO.	HSIP-0029(60)		

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
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TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT.WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT.YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
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UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR.(120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
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MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
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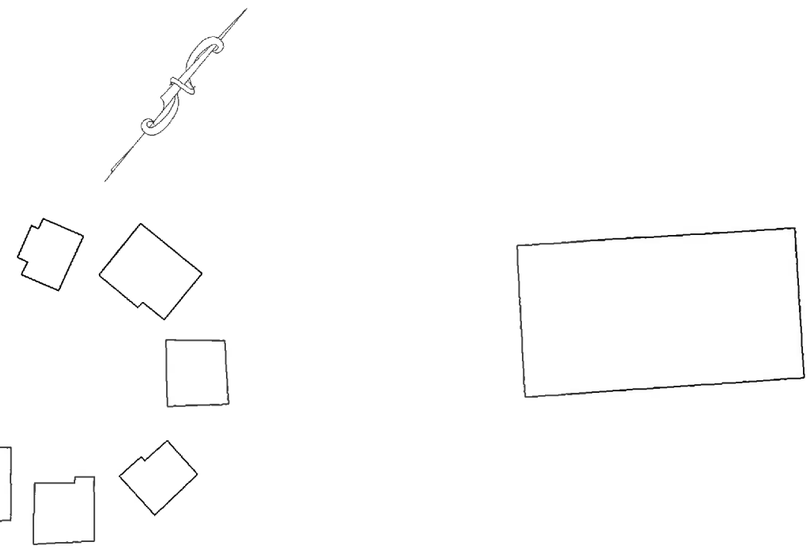
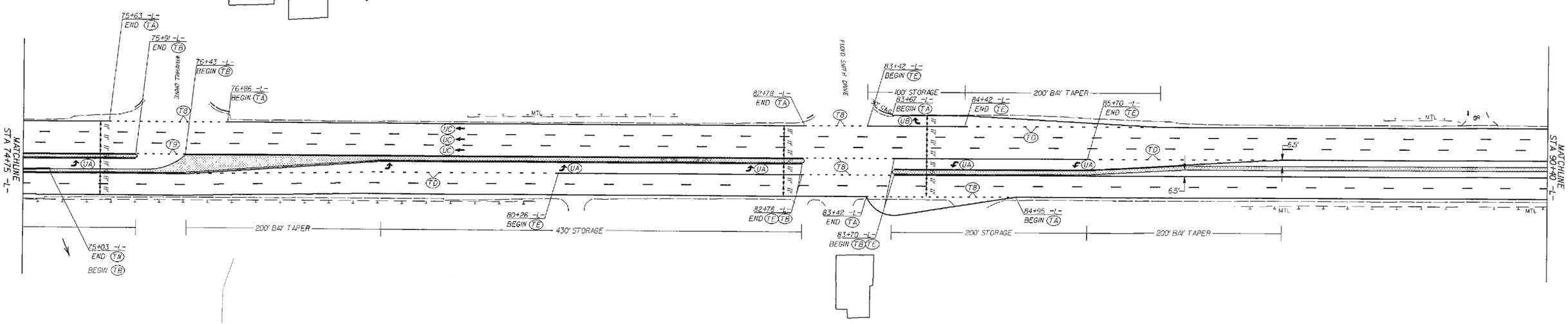
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)





US 29 FROM PAVILLION BLVD. TO
BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-6	
F.A. PROJECT NO.	HSIP-0029(60)		

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
TE - WHITE SOLID LANE LINE (4",120 MIL)
TF - 10FT.YELLOW SKIP (4",120 MIL)
TH - YELLOW SINGLE CENTER (4",120 MIL)
TI - YELLOW DOUBLE CENTER (4",120 MIL)
TJ - 10FT.WHITE SKIP (6",120 MIL)
TK - 3FT.-9FT./SP WHITE MINISKIP (6",120 MIL)
TL - WHITE SOLID LANE LINE (6",120 MIL)
TM - 10FT.YELLOW SKIP (6",120 MIL)
TN - WHITE GORELINE (8",90 MIL)
TO - WHITE DIAGONAL (8",90 MIL)
TP - YELLOW DIAGONAL (8",90 MIL)
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T4 - WHITE RUMBLE STRIP (4",240 MIL)
T5 - YELLOW RUMBLE STRIP (4",240 MIL)
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T8 - 2FT.-6FT./SP WHITE MINISKIP (4",120 MIL)
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T16 - YELLOW DOUBLE CENTER (6",120 MIL)
T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8",120 MIL)

PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
UB - RIGHT TURN ARROW (90 MIL)
UC - STRAIGHT ARROW (90 MIL)
UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL)
UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL)
UF - COMBO. LEFT/RIGHT ARROW (90 MIL)
UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
UH - HANDICAP PARKING (90 MIL)
UI - ALPHANUMERIC CHAR. (120 MIL)
UJ - BICYCLE SYMBOL (90 MIL)
UK - BICYCLE STRAIGHT ARROW (90 MIL)
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UM - 12' YIELD LINE TRIANGLE (90 MIL)
UN - 24' YIELD LINE TRIANGLE (90 MIL)
UO - BICYCLE LEFT ARROW (90 MIL)
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UQ - RAMP ARROW SYMBOL (90 MIL)
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US - BICYCLE LOOP DETECTOR (90 MIL)
UT - U-TURN ARROW (90 MIL)
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UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL)
UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL)
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WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)
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WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL)

MA - PERMANENT RAISED MARKER (YELLOW & YELLOW)
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
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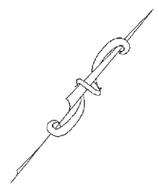

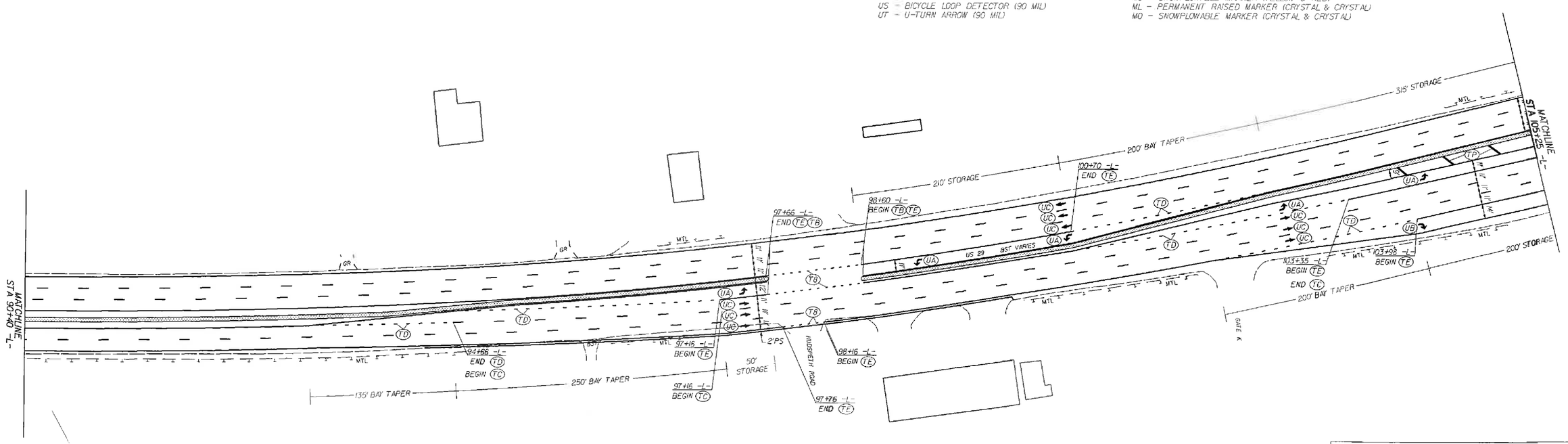

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	PMP-7	
F.A. PROJECT NO. HSIP-0029(60)			

PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

TA - WHITE EDGELINE (4",90 MIL)
TB - YELLOW EDGELINE (4",90 MIL)
TC - 10FT.WHITE SKIP (4",120 MIL)
TD - 3FT.-9FT./SP WHITE MINISKIP (4",120 MIL)
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PAVEMENT MARKING SYMBOLS

UA -LEFT TURN ARROW (90 MIL)
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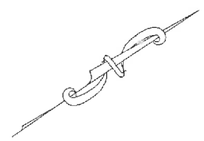
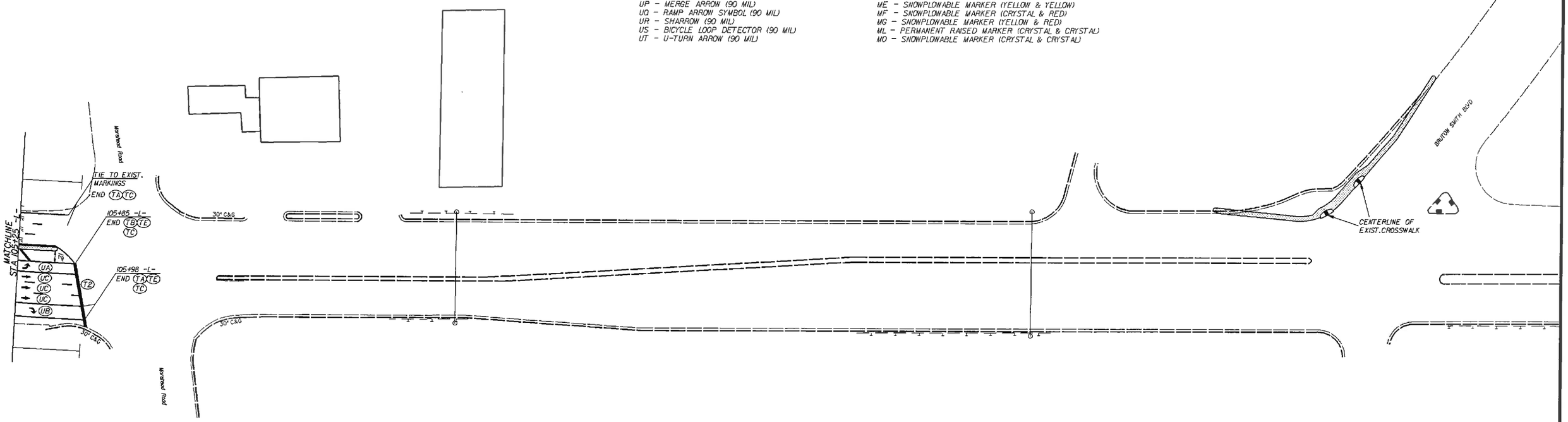
MB - PERMANENT RAISED MARKER (CRYSTAL & RED)
MC - PERMANENT RAISED MARKER (YELLOW & RED)
MD - PERMANENT RAISED MARKER (YELLOW)
ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW)
MF - SNOWPLOWABLE MARKER (CRYSTAL & RED)
MG - SNOWPLOWABLE MARKER (YELLOW & RED)
ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL)
MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL)





US 29 FROM PAVILLION BLVD.TO BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

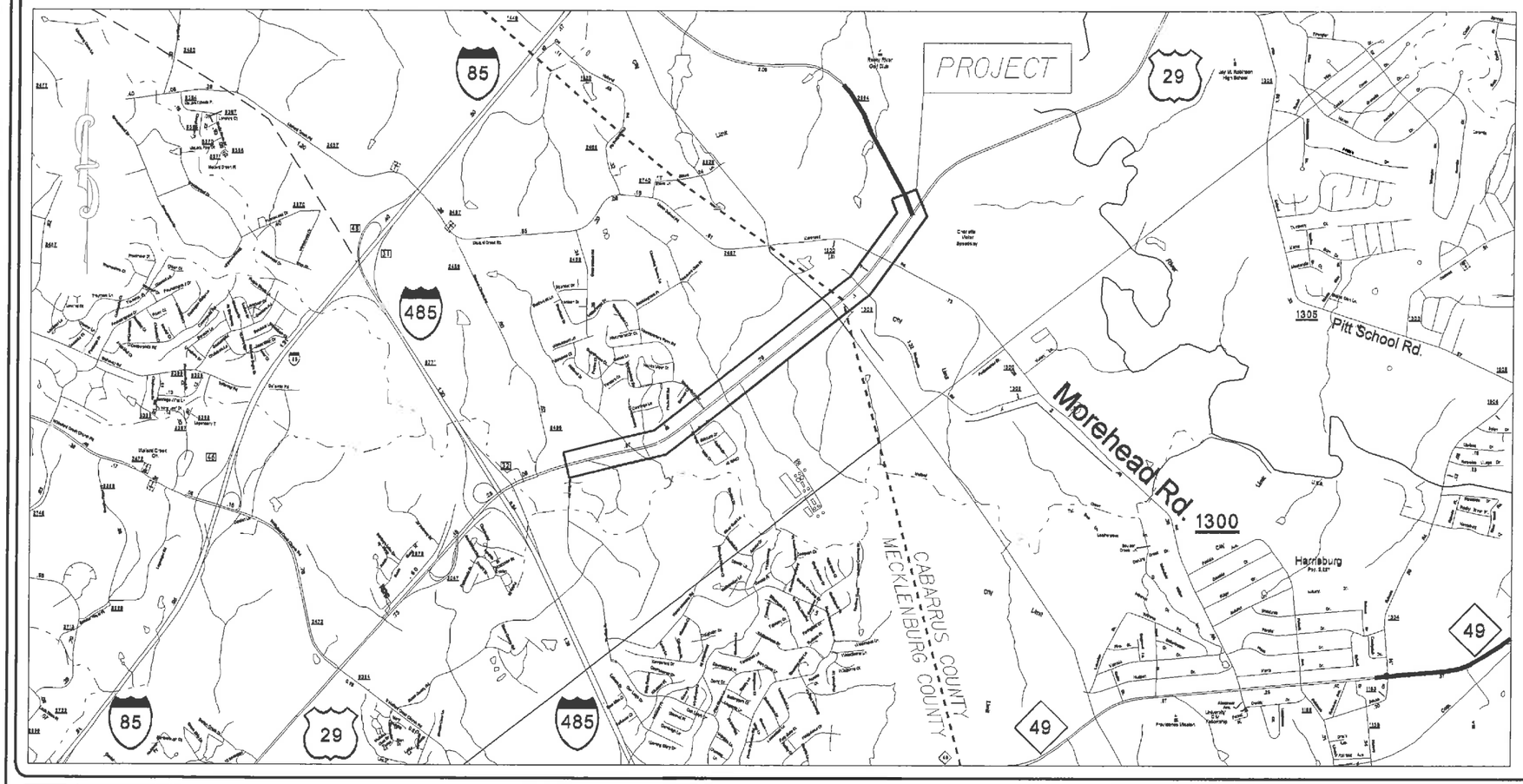
PROJECT: 45340.3.FR8 TIP: W-5210H

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5210H	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
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	
	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.

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

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:

DDC UNIT DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

2012 STANDARD SPECIFICATIONS

DONALD HARWARD — *EROSION CONTROL DESIGNER*
3028 — *LEVEL III-A CERTIFICATION #*

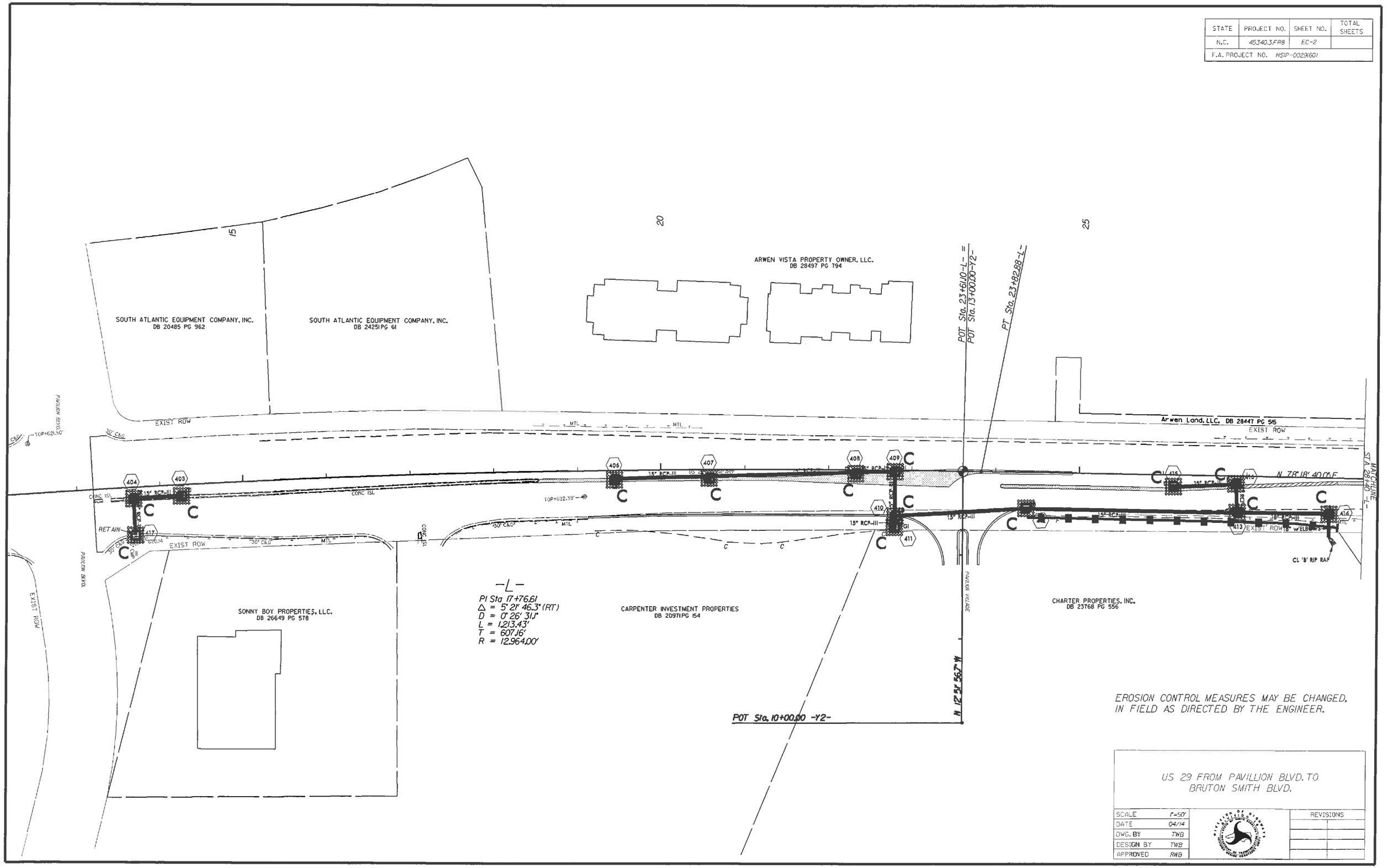
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 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		

10:MAY:2014 14:27
pavilion_erosion\vs 29_pavilion_erosion title sheet.dgn
ROADWAY 0.0000 0.0000 0.0000

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	EC-2	
F.A. PROJECT NO. HSIP-0029(60)			



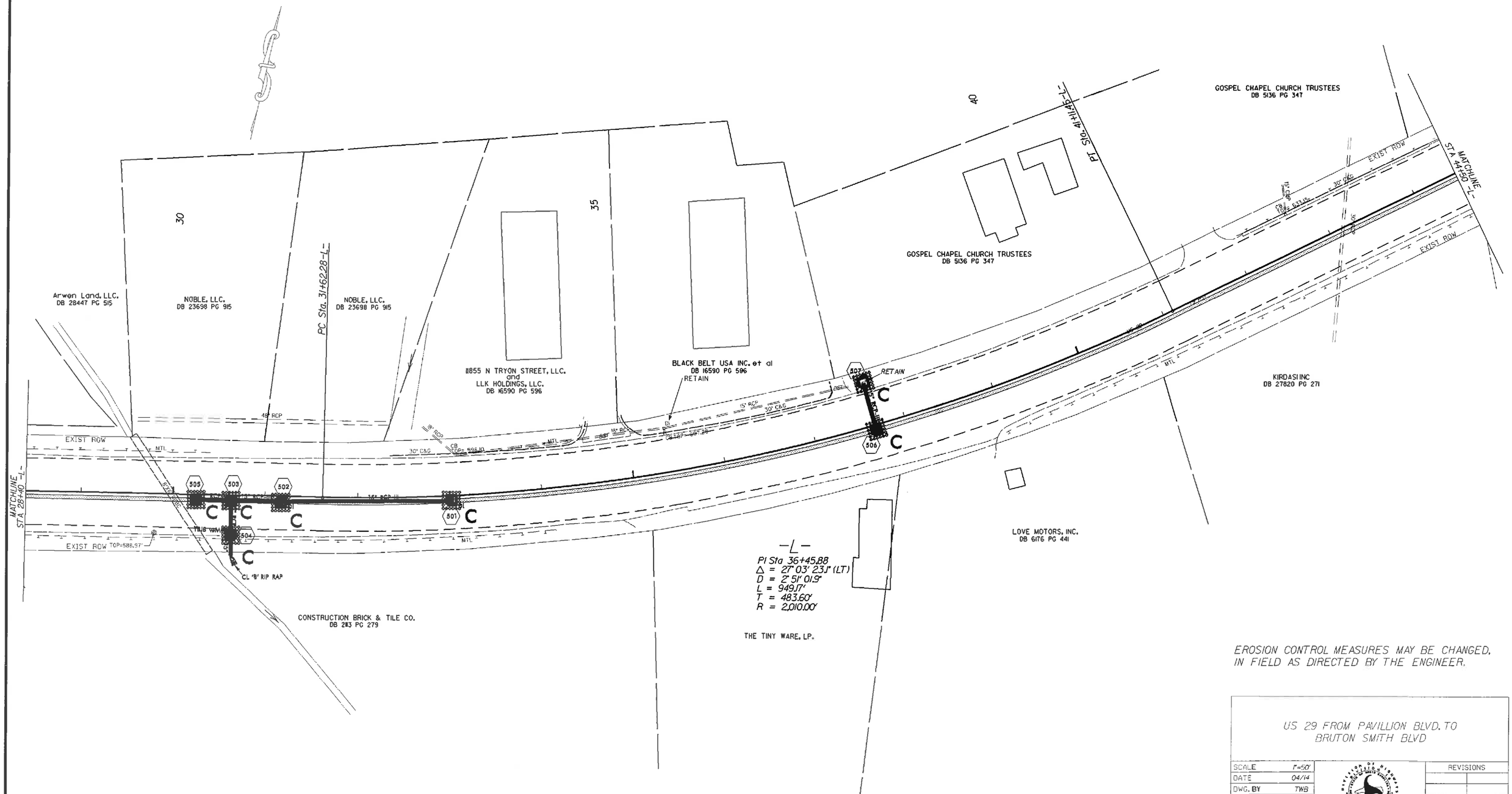
EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD.

SCALE	1"=50'
DATE	04/14
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	EC-3	
F.A. PROJECT NO. HSIP-0029(60)			

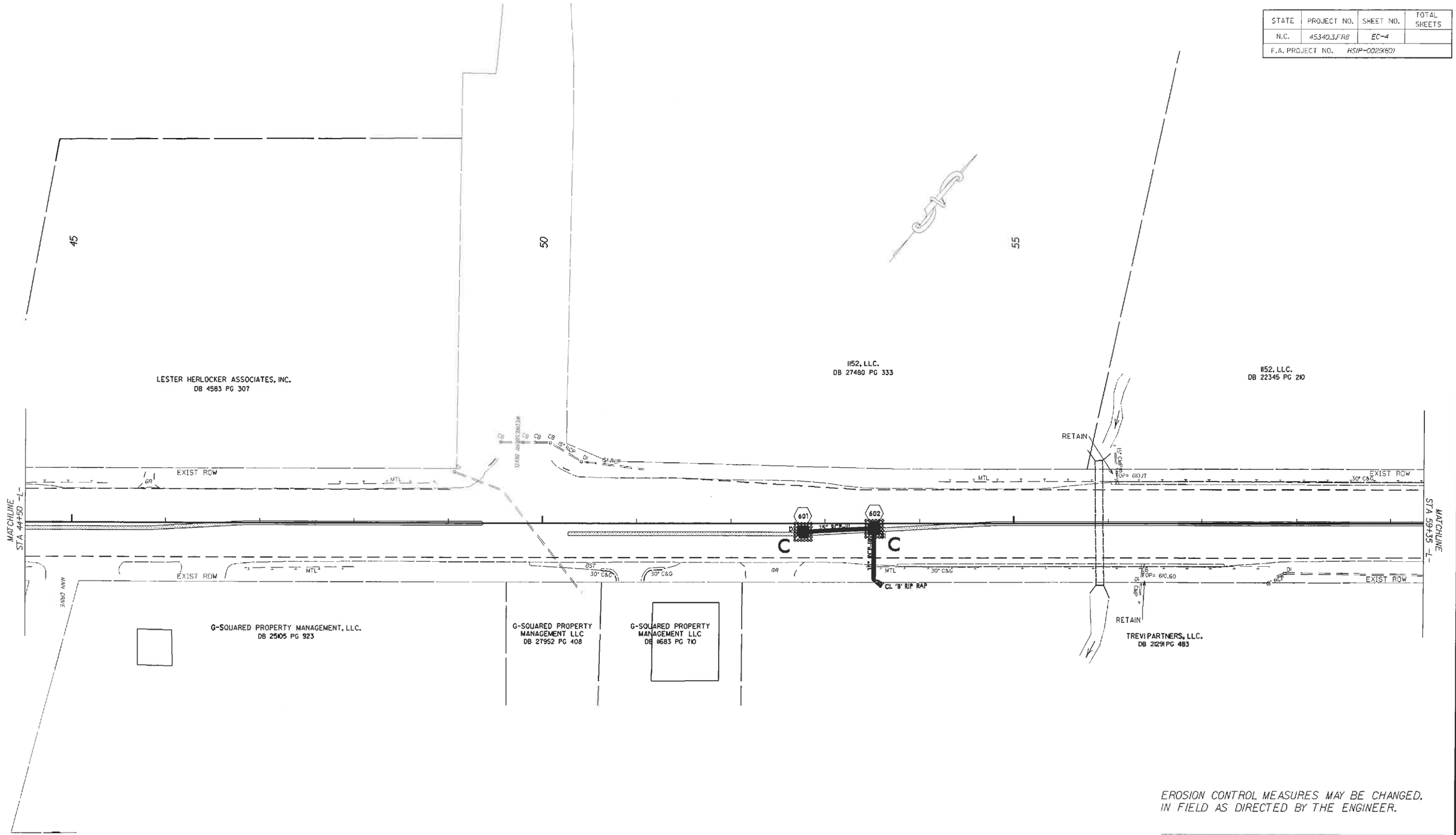


EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS	
SCALE	1"=50'		
DATE	04/14		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	EC-4	
F.A. PROJECT NO.	HSIP-0029(60)		



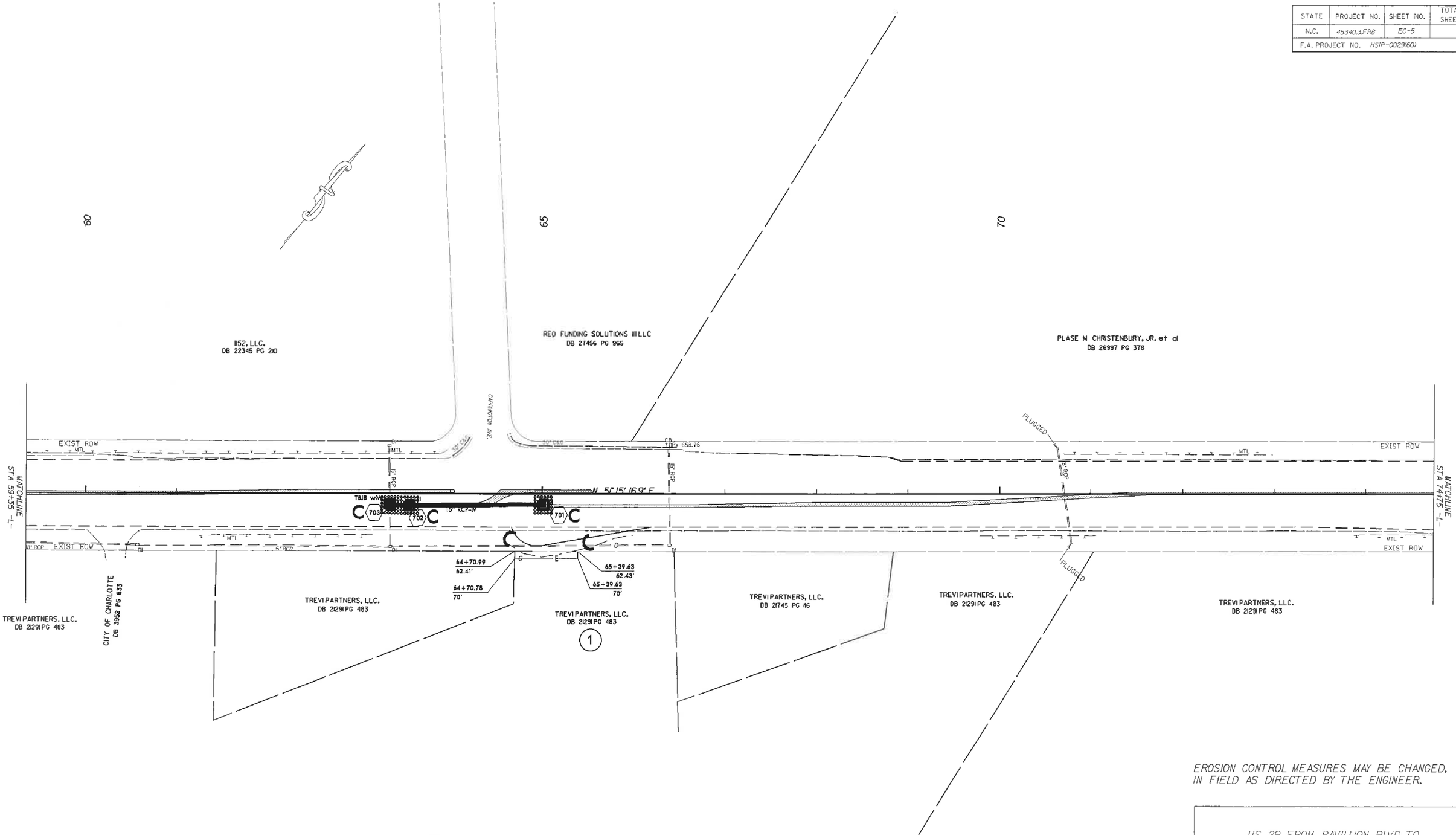
EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

SCALE	1"=50'
DATE	04/14
DWG. BY	TWB
DESIGN BY	TWB
APPROVED	RWB

REVISIONS

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	EC-5	
F.A. PROJECT NO. HSIP-0029(60)			



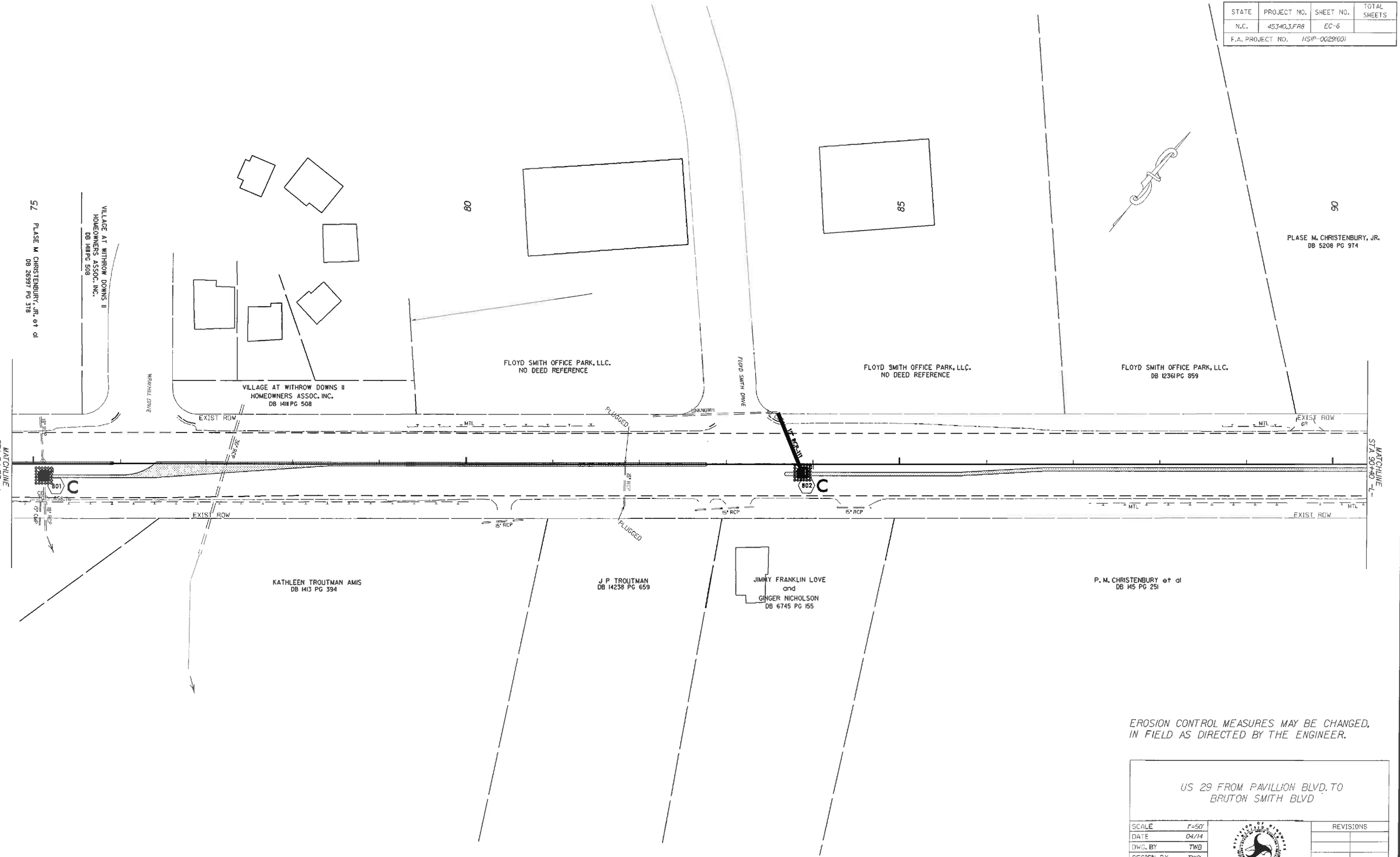
PARCEL NO.	PARCEL OWNER	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING	TEMP. CONST. EASE.	PERM. DRAIN. EASE.
1	TREVI PARTNERS, LLC.	N/A	N/A	N/A	521 S.F.	N/A

EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	EC-6	
F.A. PROJECT NO.	HSIP-0029(60)		

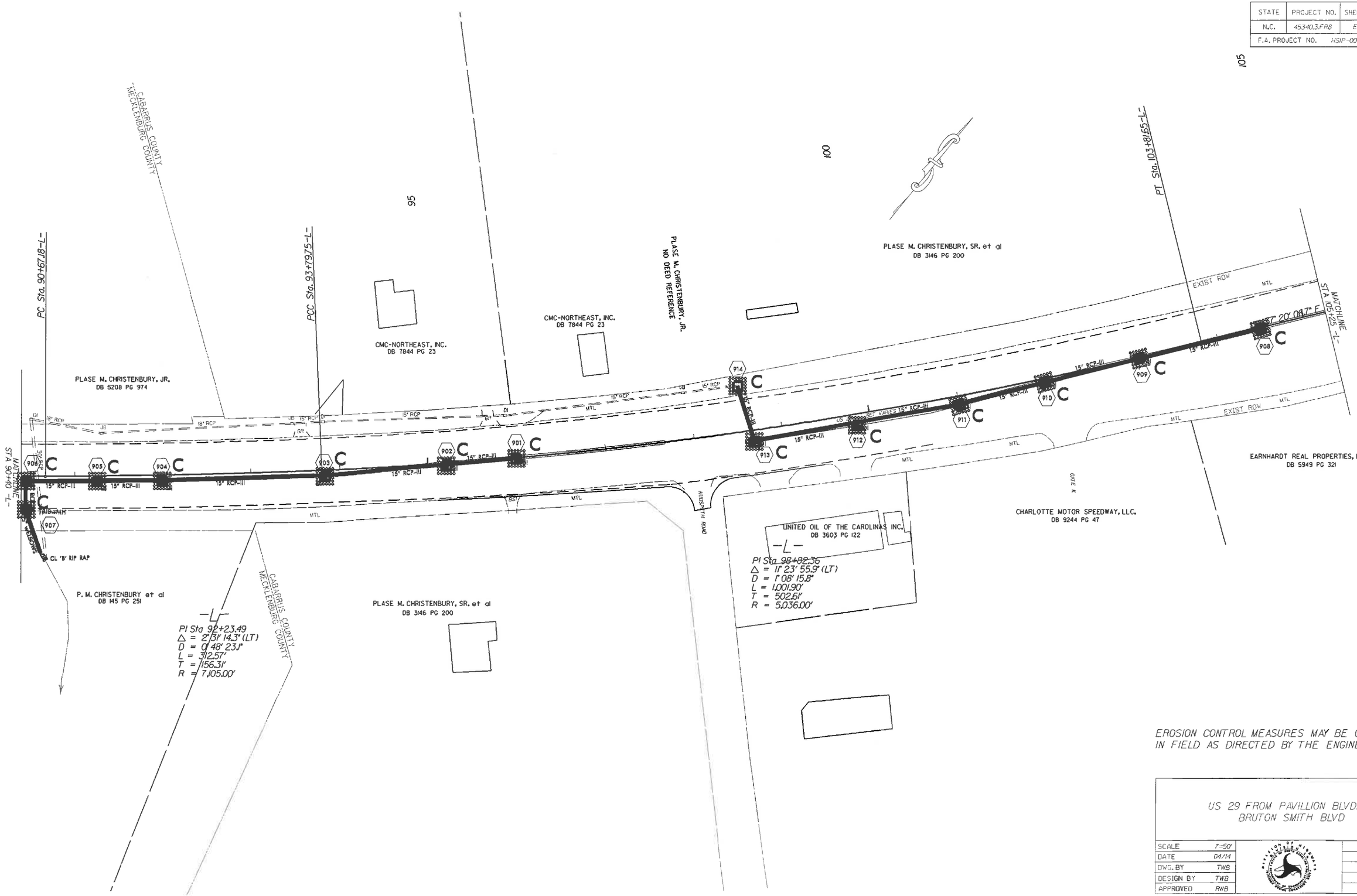


EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	45340.3.FR8	EC-7	
F.A. PROJECT NO.	HSIP-0029(60)		



EROSION CONTROL MEASURES MAY BE CHANGED, IN FIELD AS DIRECTED BY THE ENGINEER.

US 29 FROM PAVILLION BLVD. TO BRUTON SMITH BLVD

		REVISIONS
SCALE	1"=50'	
DATE	04/14	
DWG. BY	TWB	
DESIGN BY	TWB	
APPROVED	RWB	