

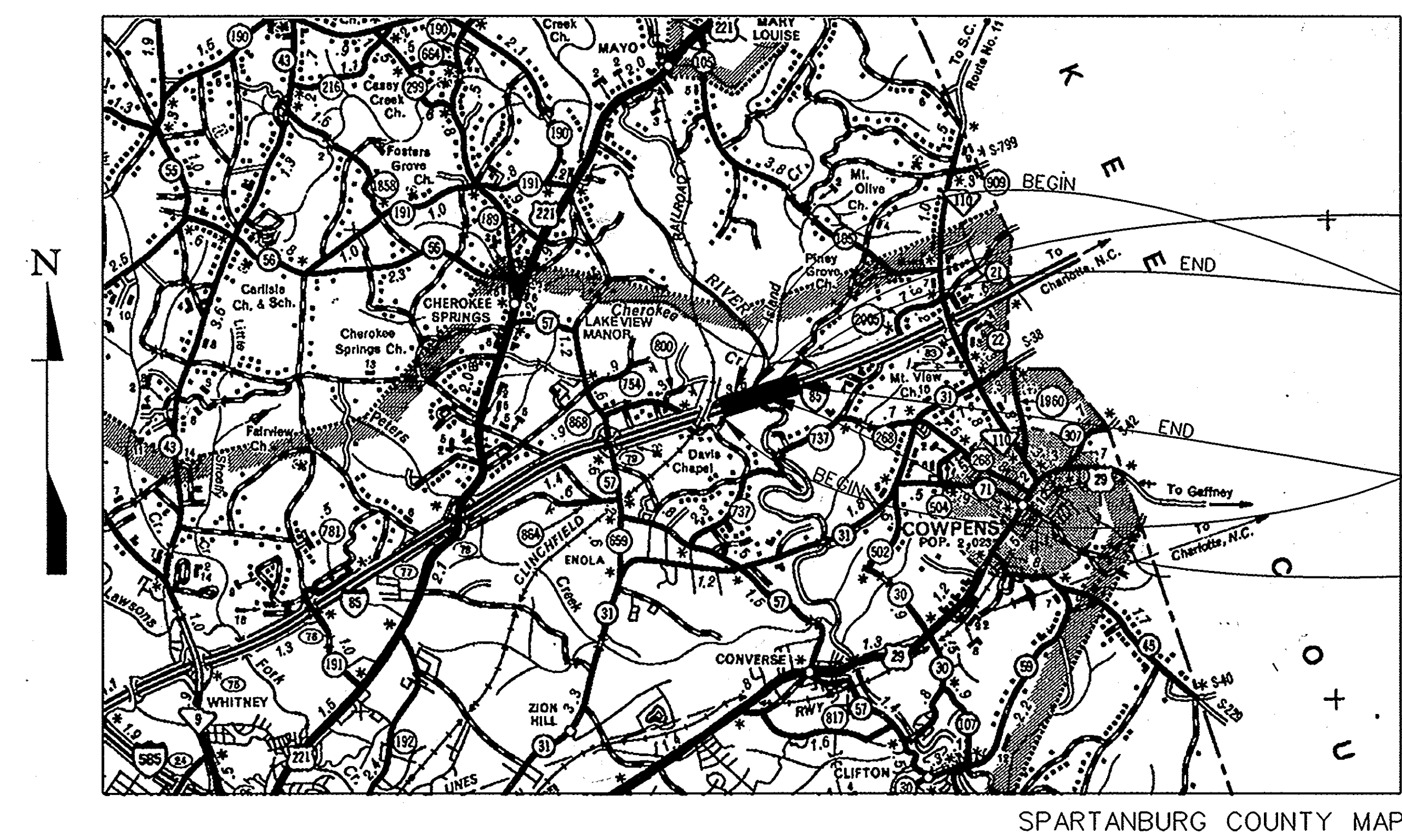
FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROAD/ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	SPARTANBURG	42.389A	IM-0852(126)	I-85	1	67

SHEET NO.	INDEX OF SHEETS	SHEET SUBTOTALS
1	TITLE SHEET	1
2	SUMMARY OF ESTIMATED QUANTITIES	1
3-3D	TYPICAL SECTIONS	5
4	OMITTED	
5	GENERAL CONSTRUCTION NOTE	
5A	TEXT FOR TOPOGRAPHY	2
6-14	PLAN AND PROFILE SHEETS	9
15	TOP OF CURB ELEVATIONS	1
TC1-TC8	TRAFFIC CONTROL PLANS	8
X1-X40	CROSS SECTIONS	40
TOTAL		67



PLAN AND PROFILE OF PROPOSED STATE HIGHWAY SPARTANBURG COUNTY FILE 42.389A PROJ. IM-0852(126) I-85/FRONTAGE ROAD N.B.L. & S.B.L. BRIDGE REPLACEMENT OVER PACOLET RIVER

*NOTE:
BRIDGE PLANS BOUND UNDER SEPERATE CONTRACT



EXCEPTION TO PROJECT (FRONTAGE ROAD)
STA. 28+065 TO STA. 28+260

FILE 42.389A PROJ. IM-0852(126) FRONTAGE ROAD
STA. 27+880.00 TO STA. 28+610.00 SEE SHEETS 10-12


FILE 42.389A PROJ. IM-0852(126) I-85
STA. 27+900.00 TO STA. 28+460.00 SEE SHEETS 6-9

155 m TWIN BRIDGES TO BE CONSTRUCTED
FROM STA: 28+085 TO STA. 28+240
(*SEE BRIDGE PLANS)

NPDES PERMIT INFORMATION
NPDES Disturbed Area = <u>2.354</u> Hectare
Approximate Location of Roadway is: Longitude <u>81° 52' 29.0776"</u> Latitude <u>35° 01' 38.1661"</u>


RAILROAD INVOLVEMENT?
YES / (NO)

PROJECT DEVELOPMENT ENGINEER


 ROBERT I. PRATT

FOR RIGHT OF WAY : _____
 *FOR CONSTRUCTION Robert I. Pratt 1/19/97
 DATE

ROAD DESIGN ENGINEER


 EDWIN SYLVESTER EARLE, II

FOR RIGHT OF WAY : _____
 FOR CONSTRUCTION Edwin Sylvester Earle, II 1/17/97
 DATE

TRAFFIC DATA

1993	ADT	20800
2013	ADT	41390
TRUCKS		18 %

LAYOUT
SCALE 1:65000

	I-85	FRONT. RD.	N.B.L. DETOUR	
NET LENGTH OF ROADWAY	0.405	0.535	0.855	km
NET LENGTH OF BRIDGES	0.155	—	—	km
NET LENGTH OF PROJECT	0.560	0.535	0.855	km
LENGTH OF EXCEPTIONS	—	0.195	0.155	km
GROSS LENGTH OF PROJECT	0.560	0.730	1.040	km

EQUALITIES IN STATIONING

LEGEND

PROPOSED PROJECT	PAV	ER
OTHER ROADS		

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA

CALL 1-800-922-0983
PALMETTO UTILITY PROTECTION SERVICE

NOTE: ALL WORKMANSHIP AND MATERIAL ON THIS PROJECT TO CONFORM WITH SOUTH CAROLINA DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND BOOK OF STANDARD DRAWINGS FOR ROAD CONSTRUCTION.

APPROVED FOR	DATE
MAYOR _____	
COUNCIL MEMBERS	
CLERK _____	

NOTE: R/W PLANS BOUND UNDER SEPERATE COVER

	RIGHT-OF-WAY INITIAL	RIGHT-OF-WAY DATE	CONSTRUCTION INITIAL	CONSTRUCTION DATE
SQUAD LEADER-ROAD DESIGN			C.W.F.	12-30-96
ROAD DESIGN/PLAN PRODUCTION MANAGER			NPY	1-2-97
DESIGN SERVICES GROUP			WEC	1-15-97
HYDRAULIC ENGINEER			W.H.H.	1/21/97
PROJECT ENGINEER			O.V.A.	1-17-97

041490
 c:\rdsqd3\1735\title.dgn
 15-JAN-1997



SUMMARY OF ESTIMATED QUANTITIES

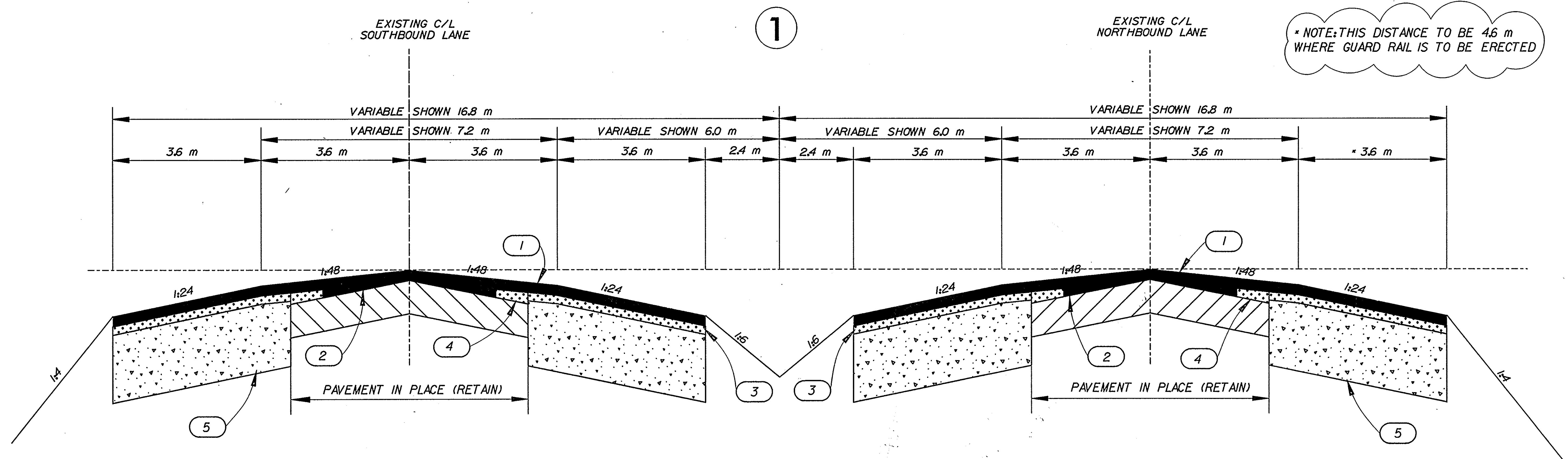


DIRECTORY MAINSERV. # 1735 / TITLE.DGN
SQUAD NUMBER 802003 INITIALS DATE 12/15/98
USER NAME P/N NUMBER 1735

ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT	ITEM NO.	PAY ITEM	QUANTITY	PAY UNIT
				1031000	MOBILIZATION	NEC.	LS
				1071000	TRAFFIC CONTROL	NEC.	LS
				2011000	CLEARING & GRUBBING WITHIN ROADWAY	NEC.	LS
				2023000	REMOVAL & DISPOSAL OF EXISTING PAVEMENT	3935.000	m2
				2025001	REMOVAL & DISPOSAL OF EXISTING ASPHALT PAVEMENT	920.000	m3
				2031000	UNCLASSIFIED EXCAVATION	10379.000	m3
				2033000	BORROW EXCAVATION	5786.000	m3
				3102000	HOT LAID ASPH. AGG. BASE CR. - TYPE 1	10581.000	t
				4011004	LIQUID ASPHALT BINDER PG64-22	747.000	t
				4013990	MILLING EXISTING ASPHALT PAVEMENT (VARIABLE)	2432.000	m2
				4020100	SUPERPAVE INTERMEDIATE COURSE(19mm max.stone)	1938.000	t
				4022000	HOT LAID ASPH. CONC. BINDER CR. - TYPE 1	562.000	t
				4030100	SUPERPAVE SURFACE COURSE(12.5mm max.stone)	1869.000	t
				4031300	HOT LAID ASPH. CONC. SURF. CR. TYPE 1B	562.000	t
				4037000	HOT LAID ASPH. CONC. SURF. CR. FOR DITCH PAVING	17.000	t
				6011007	PAINT 150 mm WHITE BROKEN LINES -(GAPS EXCLUDED)	1182.000	m
				6011012	PAINT 150 mm WHITE SOLID LINES (PVT. EDGE LINES)	4700.000	m
				6012011	PAINT 150 mm YELLOW SOLID LINES(PVT.EDGE & NO PASSING ZONE)	4700.000	m
				6031015	TEMP.CLEAR PAVEMENT MARKERS MONO-DIR.,REFL.100 mm X 100 mm	82.000	EA
				6032015	TEMP.YELLOW PAVEMENT MARKERS MONO-DIR.REFL. 100 mm X 100 mm	82.000	EA
				6042105	PREF.FLEX.RETRO.PVMT.MARK(T-2)TEMP.REMOVABLE 150 mm WH.BRKN	84.000	m
				6042155	PREF.FLEX.RETRO.PVMT.MARK(T-2)TEMP.REMOVABLE 150 mm WH.SOL	340.000	m
				6042455	PREF.FLEX.RETRO.PVMT.MARK(T-2)TEMP.REMOVABLE 150 mm YEL.SOL	340.000	m
				6051005	PERMANENT CONSTRUCTION SIGNS	17.640	m2
				6051105	CONSTRUCTION ZONE ELECTRIC CHANGEABLE MESSAGE SIGN	1.000	EA
				7141113	450 mm RC PIPE CUL.-CLASS III	298.800	m
				7142513	450 mm R. C. PIPE CUL. BEVELED END SECTN-CL 3	2.000	EA
				7191305	CATCH BASIN -TYPE 12	2.000	EA
				7201000	CONCRETE CURB (225 mm X 375 mm)	8.000	m
				7203210	CONCRETE CURB AND GUTTER(600 mm)	500.000	m
				8011055	AGGREGATE UNDERDRAIN	48.000	m3
				8021206	150 mm PERFORATED PIPE UNDERDRAIN	150.000	m
				8041100	HAND PLACED RIPRAP	60.000	t
				8048210	GEOTEXTILE FOR EROSION CONTROL UNDER RIPRAP(CLASS 2)TYPE C	111.000	m2
				8051100	STEEL BEAM GUARDRAIL	468.630	m
				8051110	REMOVAL OF EXIST. GUARDRAIL	254.000	m
				8052050	MODIFIED ECCENTRIC LOADER TERMINAL(MELT)	8.000	EA
				8052600	THREE BEAM G.R.BRIDGE CONN.	8.000	EA
				8055471	GREAT-9BAY-0.9 m(BIDIRECTIONAL)WITH CONC.MEDIAN BACKUP	2.000	EA
				8055636	ANCHOR KIT - PORT. ATTENUATOR(6 BAY) 457.2 mm THREADED RODS	2.000	EA
				8055610	PORTABLE TERMINAL IMPACT ATTENUATOR-6 BAY-0.6 m	2.000	EA
				8059150	TEMPORARY CONCRETE BARRIER WITH NON-TEXTURED WHITE COATING	495.000	m
				8061120	WOVEN WIRE FENCE - TYPE 1 WITH 2 STRANDS BARBED WIRE	100.000	m
				8091000	RIGHT OF WAY MARKER(REINFORCED CONCRETE)	10.000	EA
				8101000	SEEDING (MULCHED)	23539.000	m2
				8103000	TEMPORARY SEEDING	23539.000	m2
				8104100	FERTILIZER(10-10-10)	3.960	t
				8105000	LIME	5.280	t
				8106000	NITROGEN	127.000	kg
				8109900	MOWING	47078.000	m2
				8152000	BALED STRAW	200.000	BALE
				8153000	SILT FENCE	3160.000	m



TYPICAL SECTION OF IMPROVEMENT COLUMBIA, S.C.



USE TYPICAL SECTION NO. 1 ON I-85
FROM STA. 27+940 TO STA. 28+340 (S.B.L. ONLY)

NOTE: CONSTRUCT ONLY TO EXISTING SHOULDERS
FROM STA. 27+900 TO STA. 27+940 NBL/SBL
FROM STA. 28+340 TO STA. 28+460 NBL ONLY
(SEE CROSS SECTIONS)

LEGEND

- 1 SUPERPAVE SURFACE COURSE (108 kg/m²)
- 2 SUPERPAVE SURFACE COURSE (FOR BUILD-UP AND LEVELING UP TO 7.62 cm)
- 3 SUPERPAVE INTERMEDIATE COURSE (108 kg/m²)
- 4 SUPERPAVE INTERMEDIATE COURSE (FOR BUILD-UP AND LEVELING OVER 7.62 cm)
- 5 ASPHALT AGGREGATE BASE COURSE (729 kg/m²)

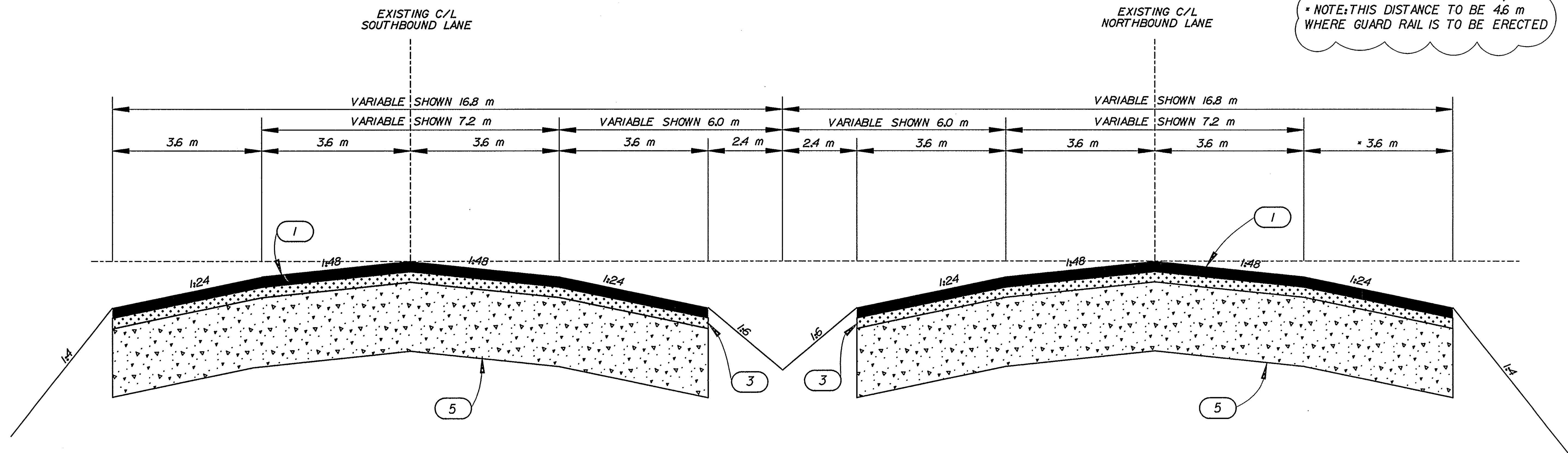
ROAD/RTE.	I-85	DESIGN SPEED	5		
km/h	FROM STA.	TO STA.	4		
90	27+900	28+460	3		
			2		
			1		
EXCEPTIONS TO DESIGN SPEED			REV. NO.	BY	DATE
					DESCRIPTION OF REVISION
			BY	M.K.C.	DATE 8-20-1996
			SQUAD	3	DATE
					SCALE
					1:50 HORZ.
					1:10 VERT.



TYPICAL SECTION OF IMPROVEMENT COLUMBIA, S.C.



②



USE TYPICAL SECTION NO.2 ON I-85
FROM STA.27+940 TO STA.28+360 (N.B.L. ONLY)

NOTE: CONSTRUCT ONLY TO EXISTING SHOULDERS
FROM STA.28+340 TO STA.28+460 SBL ONLY
(SEE CROSS SECTIONS)

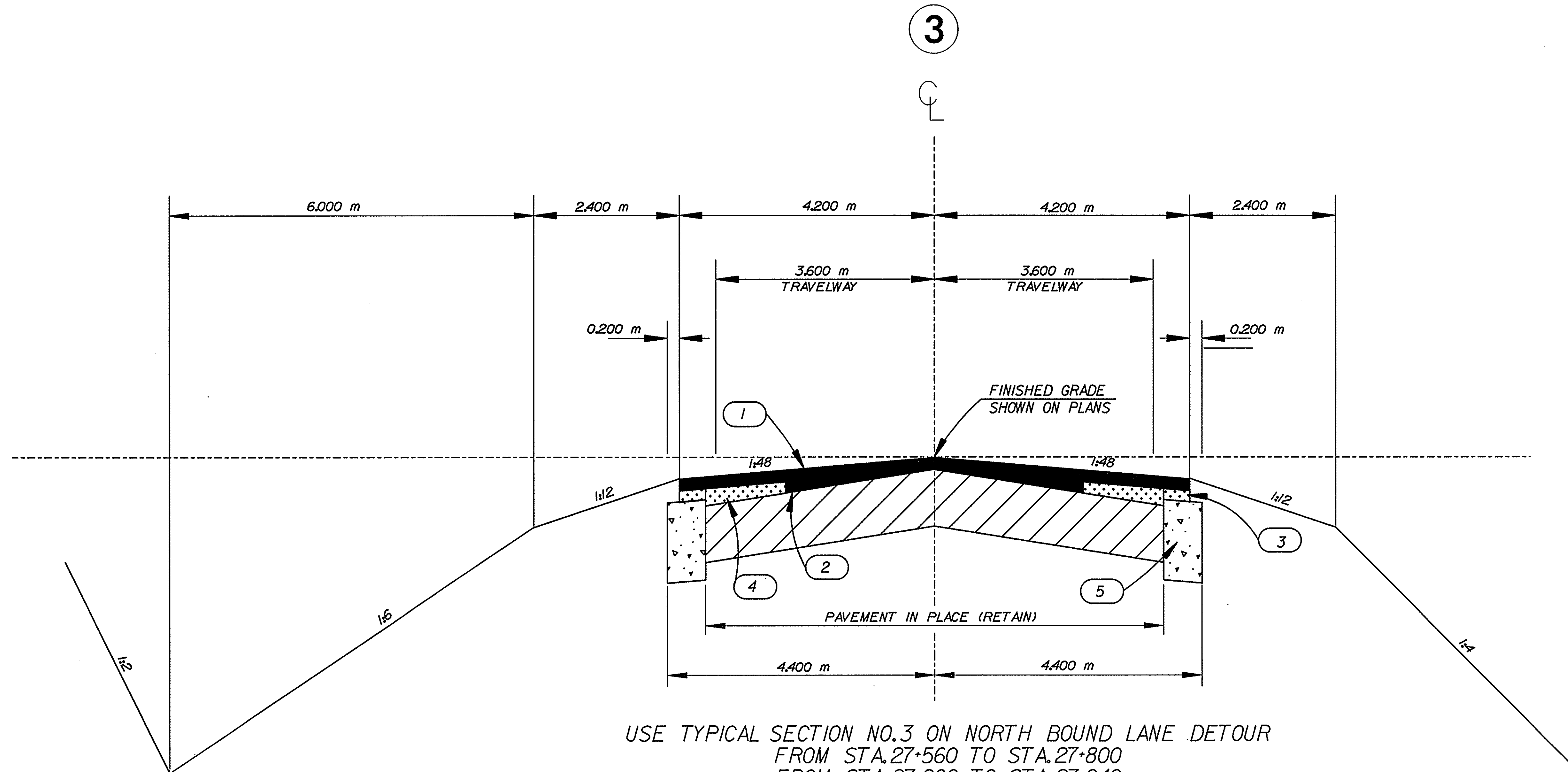
LEGEND

- ① SUPERPAVE SURFACE COURSE (108 kg/m²)
- ③ SUPERPAVE INTERMEDIATE COURSE (108 kg/m²)
- ⑤ ASPHALT AGGREGATE BASE COURSE (729 kg/m²)

ROAD/RTE.	I-85	DESIGN SPEED	5		
km/h	FROM STA.	TO STA.	4		
90	27+900	28+460	3		
			2		
EXCEPTIONS TO DESIGN SPEED			1		
REV. NO.	BY	DATE	DESCRIPTION OF REVISION		
BY	M.K.C.	DATE 8-20-1996	SCALE		
SQUAD	3	DATE	1:50 HORZ.		
			1:10 VERT.		



TYPICAL SECTION OF IMPROVEMENT COLUMBIA, S.C.



USE TYPICAL SECTION NO.3 ON NORTH BOUND LANE DETOUR
 FROM STA.27+560 TO STA.27+800
 FROM STA.27+900 TO STA.27+940
 FROM STA.28+360 TO STA.28+440
 FROM STA.28+480 TO STA.28+610

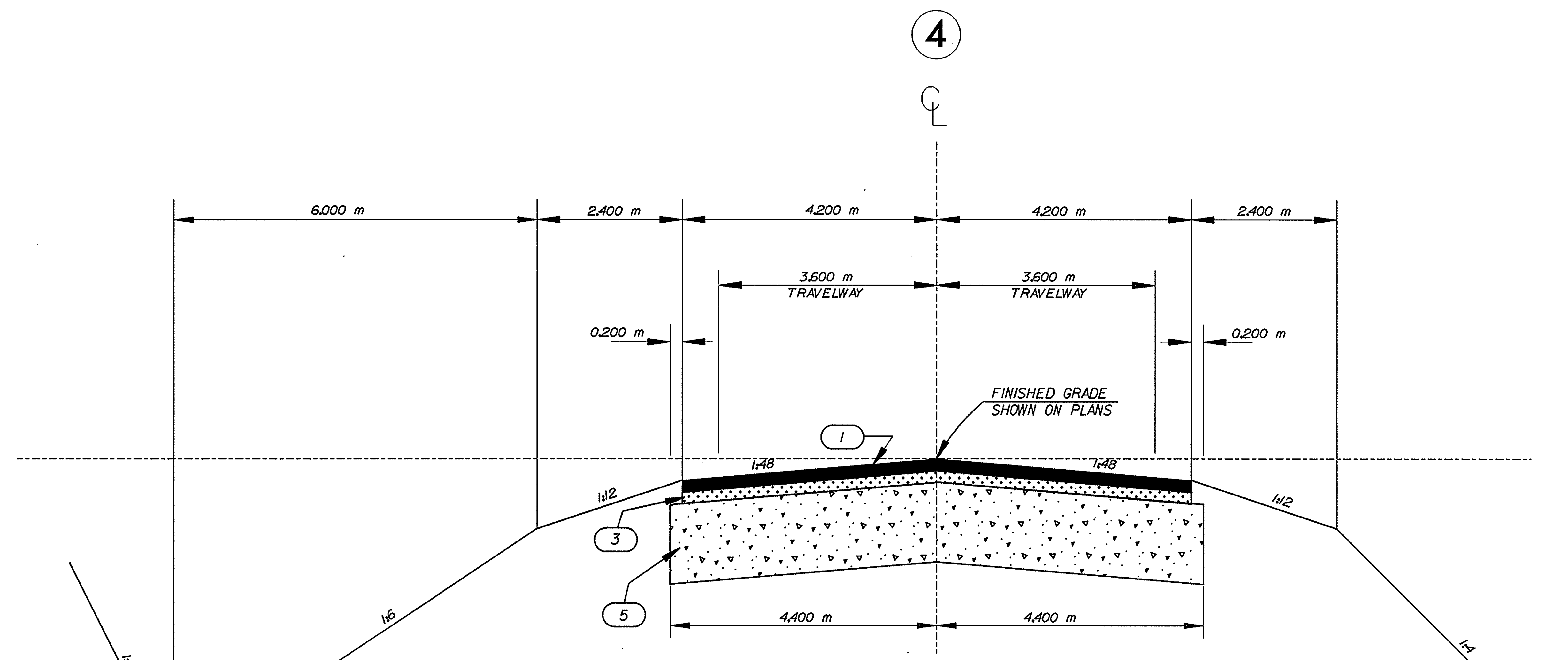
LEGEND

- 1 SUPERPAVE SURFACE COURSE (108 kg/m²)
- 2 SUPERPAVE SURFACE COURSE (FOR BUILD-UP AND LEVELING UP TO 7.62 cm)
- 3 SUPERPAVE INTERMEDIATE COURSE (108 kg/m²)
- 4 SUPERPAVE INTERMEDIATE COURSE (FOR BUILD-UP AND LEVELING OVER 7.62 cm)
- 5 ASPHALT AGGREGATE BASE COURSE (729 kg/m²)

ROAD/RTE. N.B.L.DET.	DESIGN SPEED	5	4	3	2	1
km/h	FROM STA. TO STA.					
90	27+560 28+610					
EXCEPTIONS TO DESIGN SPEED						
REV. NO.	BY	DATE	DESCRIPTION OF REVISION			
	C.W.F.	7-5-96	SCALE 1:40 HORZ.			
	3		SCALE 1:10 VERT.			



TYPICAL SECTION OF IMPROVEMENT COLUMBIA, S.C.



USE TYPICAL SECTION NO.4 ON NORTH BOUND LANE DETOUR
 FROM STA. 27+800 TO STA. 27+900
 FROM STA. 27+940 TO STA. 28+080
 FROM STA. 28+240 TO STA. 28+360
 FROM STA. 28+440 TO STA. 28+480

o41490
 c:\vrdsgd3\17735\typ.dgn
 16-JAN-1997

LEGEND	
(1)	SUPERPAVE SURFACE COURSE (108 kg/m ²)
(3)	SUPERPAVE INTERMEDIATE COURSE (108 kg/m ²)
(5)	ASPHALT AGGREGATE BASE COURSE (729 kg/m ²)

ROAD/RTE. N.B.L.DET. DESIGN SPEED		5	
km/h	FROM STA.	TO STA.	
90	27+560	28+610	
EXCEPTIONS TO DESIGN SPEED			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
	C.W.F.	7-5-96	SCALE
	3		1:40 HORZ.
			1:10 VERT.



TYPICAL SECTION OF IMPROVEMENT COLUMBIA, S.C.

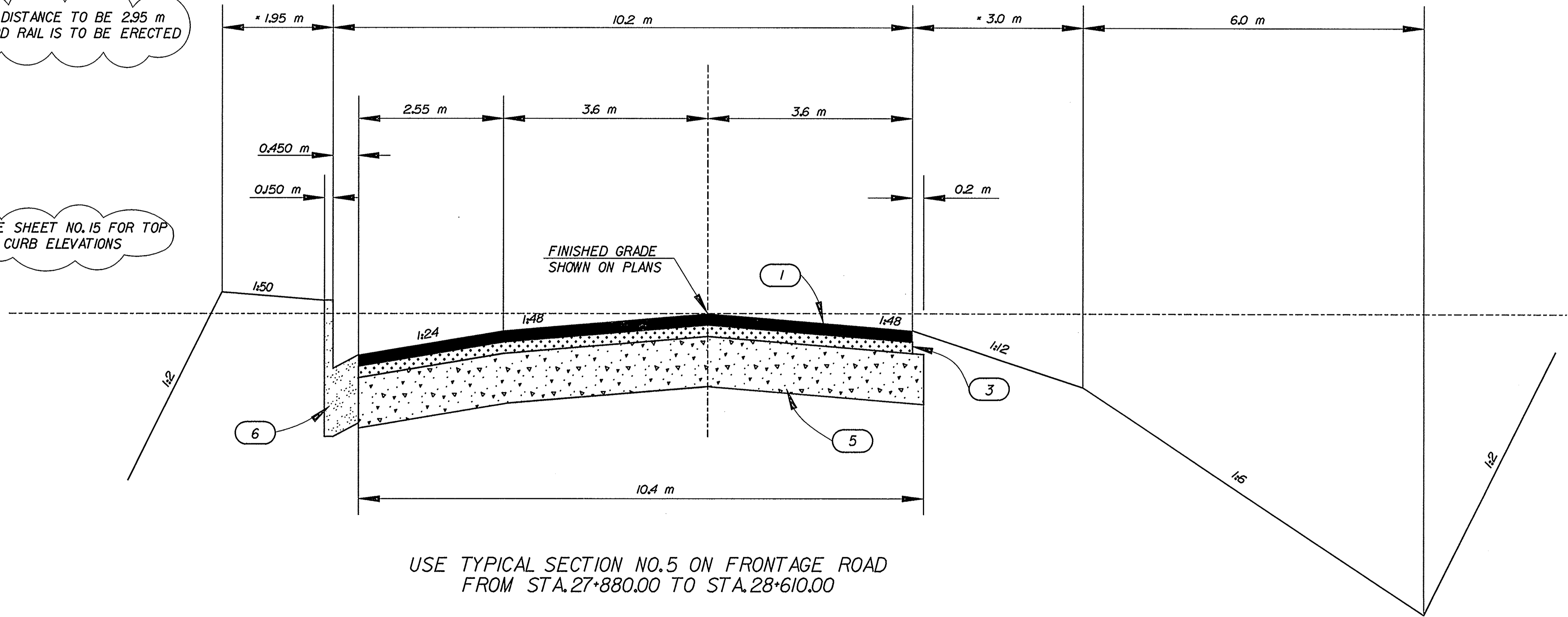


5

* NOTE: THIS DISTANCE TO BE 4.00 m WHERE GUARD RAIL IS TO BE ERECTED

* NOTE: THIS DISTANCE TO BE 2.95 m WHERE GUARD RAIL IS TO BE ERECTED

SEE SHEET NO. 15 FOR TOP OF CURB ELEVATIONS



USE TYPICAL SECTION NO. 5 ON FRONTAGE ROAD FROM STA. 27+880.00 TO STA. 28+610.00

LEGEND

- 1 ASPHALT CONCRETE SURFACE COURSE (108 kg/m²)
- 2 ASPHALT CONCRETE SURFACE COURSE (FOR BUILD-UP AND LEVELING UP TO 7.62 cm)
- 3 ASPHALT CONCRETE BINDER COURSE (108 kg/m²)
- 4 ASPHALT CONCRETE BINDER COURSE (FOR BUILD-UP AND LEVELING OVER 7.62 cm)
- 5 ASPHALT AGGREGATE BASE COURSE (486 kg/m²)
- 6 CONCRETE CURB AND GUTTER (650 mm)

ROAD/RTE. FRONT RD. DESIGN SPEED			
km/h	FROM STA.	TO STA.	
70	27+880	28+610	
EXCEPTIONS TO DESIGN SPEED			
REV. NO.	BY	DATE	DESCRIPTION OF REVISION
BY	M.K.C.	DATE 7-23-96	SCALE 1:40 HORZ.
SQUAD	3	DATE	1:10 VERT.

GENERAL CONSTRUCTION NOTE

CHANGES INVOLVING INCREASED COST OF PROJECT OR CHANGES IN ALIGNMENT MUST BE SPECIFICALLY AUTHORIZED BY THE DEPUTY DIRECTOR FOR CONSTRUCTION, ENGINEERING AND PLANNING. DISTRICT ENGINEERING ADMINISTRATOR MAY AUTHORIZE MINOR ALTERATIONS NOT IN CONFLICT WITH THE STANDARD PRACTICES OF THE DEPARTMENT AND NOT INVOLVING INCREASES IN COST. FORWARD INFORMATION ON ANY CHANGE IN ALIGNMENT TO THE COLUMBIA OFFICE AS SOON AS THE REVISION IS COMPLETED.

SEE INDIVIDUAL CURVES ON PLANS FOR SUPERELEVATION RATE AND DESIGN SPEED.

THE FOLLOWING QUANTITIES ARE NOT SHOWN IN DETAIL ON THE PLANS BUT ARE INCLUDED IN THE SUMMARY OF ESTIMATED QUANTITIES AND MAY BE VARIED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER:

ALL REMOVAL AND DISPOSAL OF EXISTING ASPHALT PAVEMENT WILL BE MEASURED AND PAID FOR AS DESCRIBED IN THE SPECIAL PROVISIONS.



REMOVAL OF EXISTING GUARDRAIL.....	254	m	WHERE DIRECTED BY THE ENGINEER
REMOVAL AND DISPOSAL OF EXISTING ASPHALT PAVEMENT.....	920	m3	WHERE DIRECTED BY THE ENGINEER
REMOVAL AND DISPOSAL OF EXISTING PAVEMENT.....	3935	m2	WHERE DIRECTED BY THE ENGINEER
LIQUID ASPHALT BINDER.....	10	t	FOR BUILDUP AND LEVELING
SUPERPAVE SURFACE COURSE.....	50	t	FOR BUILDUP AND LEVELING
SUPERPAVE INTERMEDIATE COURSE.....	136	t	FOR BUILDUP AND LEVELING
ASPH. SURF. COURSE FOR DITCH PAVING.....	10	t	WHERE DIRECTED BY THE ENGINEER
MILLING.....	2432	m2	WHERE DIRECTED BY THE ENGINEER
450 mm R.C. PIPE.....	60	m	WHERE DIRECTED BY THE ENGINEER
WOVEN WIRE FENCE.....	100	m	WHERE DIRECTED BY THE ENGINEER
RIGHT-OF-WAY MARKER.....	10	EA.	WHERE DIRECTED BY THE ENGINEER
CONCRETE CURB (225 mm X 375 mm).....	8	m	FOR BRIDGE ENDS
HAND PLACED RIPRAP.....	40	t	TO PLACED AT FLUM END
GEOTEXTILE FOR EROSION CONTROL.....	74	m2	TO BE PLACED UNDER RIPRAP
SUPERPAVE SURFACE COURSE.....	17	t	FOR SHOULDER WIDENING
LIQUID ASPHALT BINDER.....	1	t	FOR SHOULDER WIDENING
ASPH. CONC. SURF. CO. FOR DITCH PAVING.....	7	t	FOR FLUMS

EROSION CONTROL ITEMS

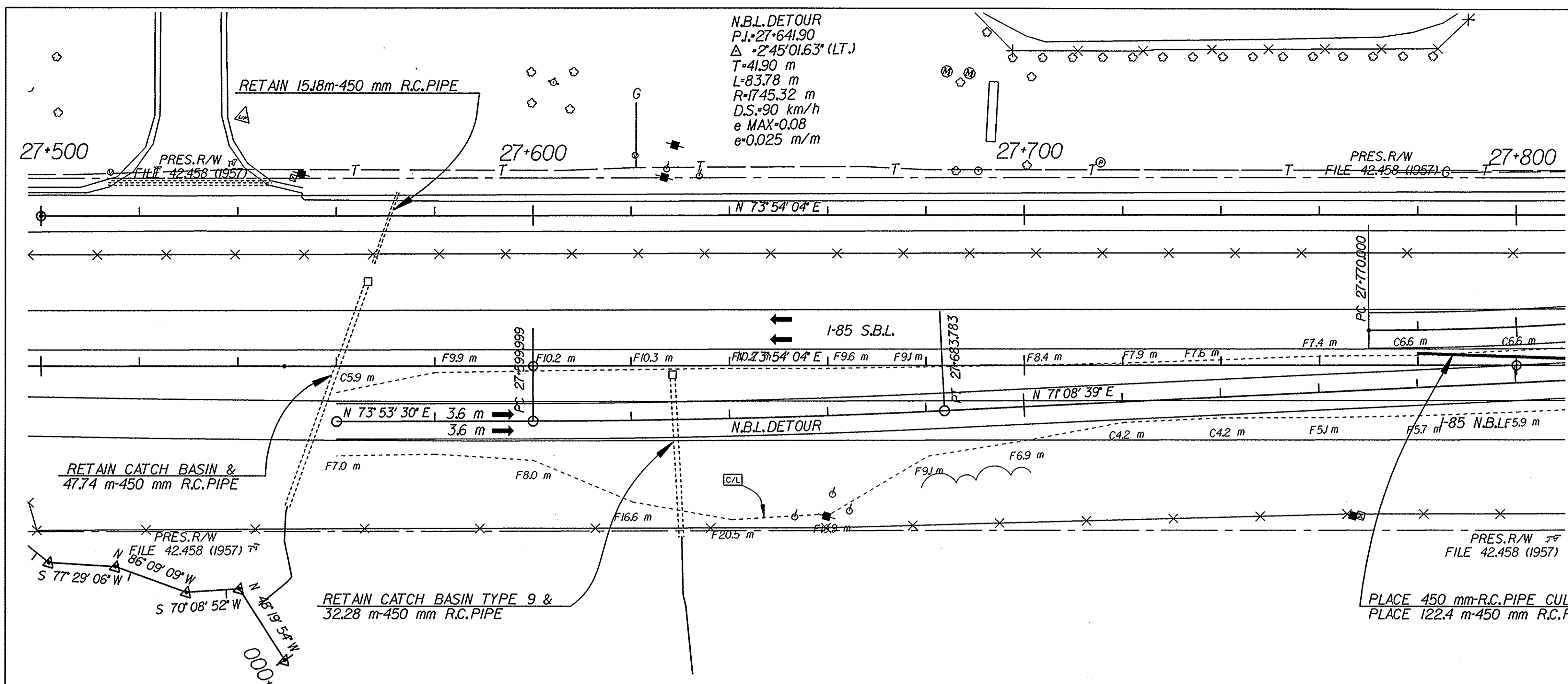
AGGREGATE UNDERDRAIN.....	48	m2	WHERE DIRECTED BY THE ENGINEER
PERFORATED PIPE UNDERDRAIN.....	150	m	WHERE DIRECTED BY THE ENGINEER
HAND PLACED RIPRAP.....	20	t	WHERE DIRECTED BY THE ENGINEER
GEOTEXTILE FOR EROSION CONTROL.....	31	m2	WHERE DIRECTED BY THE ENGINEER
SEEDING.....	23539	m2	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
TEMPORARY SEEDING.....	23539	m2	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
FERTILIZER.....	3.96	t	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
LIME.....	5.28	t	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
NITROGEN.....	127	kg	FOR ALL DISTURBED AREAS WHERE DIRECTED BY THE ENGINEER
MOWING.....	47078	m2	WHERE DIRECTED BY THE ENGINEER
BALED STRAW.....	200	bale	WHERE DIRECTED BY THE ENGINEER
SILT FENCE.....	3160	m	WHERE DIRECTED BY THE ENGINEER

" These Plans Developed with Quality in Mind "

Project Engineer :	Name	Telephone
	<u>M.G. MOORE</u>	<u>737-9928</u>
Surveyed by:	Name	Telephone
	<u>R.A. FOSTER</u>	<u>576-1511</u>
Survey Checked by:	Name	Telephone
	<u>B.D. ISON</u>	<u>737-1703</u>
Road Plans Prepared by:	Name	Telephone
	<u>C.W. FRICK</u> <u>M.K. COBB</u>	<u>737-1417</u>
Road Plans Quality Control by:	Name	Telephone
	<u>W.B. CLYBURN</u>	<u>737-1659</u>
Bridge Plans Prepared by:	Name	Telephone
	_____	_____
Preliminary Design by:	Name	Telephone
	_____	_____
Hydrology Design by:	Name	Telephone
	_____	_____
NPDES Design by:	Name	Telephone
	_____	_____
Environmental Concerns Addressed by:	Name	Telephone
	_____	_____
R/W Acquired by:	Name	Telephone
R/W Review Appraiser:	Name	Telephone
R/W Relocation Agent :	Name	Telephone
R/W Quality Assurance by:	Name	Telephone
Utilities:	Name	Telephone
Railroads:	Name	Telephone

	 South Carolina Department of Transportation	ROAD DESIGN		
PLAN SCALE 1:				
6				
4				
3				
2				
1				
REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION
DIRECTORY <u>MAINSEV</u> : <u>17502</u> / <u>TITLE.DGN</u>		SERVER <u>3</u> SUB DIR. <u>CW.F.</u> FILE NAME		
SQUAD NUMBER <u>3</u> INITIALS <u>CW.F.</u>		DATE <u>09-06-95</u>		
TOPO BY NAME _____		DATE _____		
PIN NUMBER <u>17735</u>		metbor.dgn		

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	6



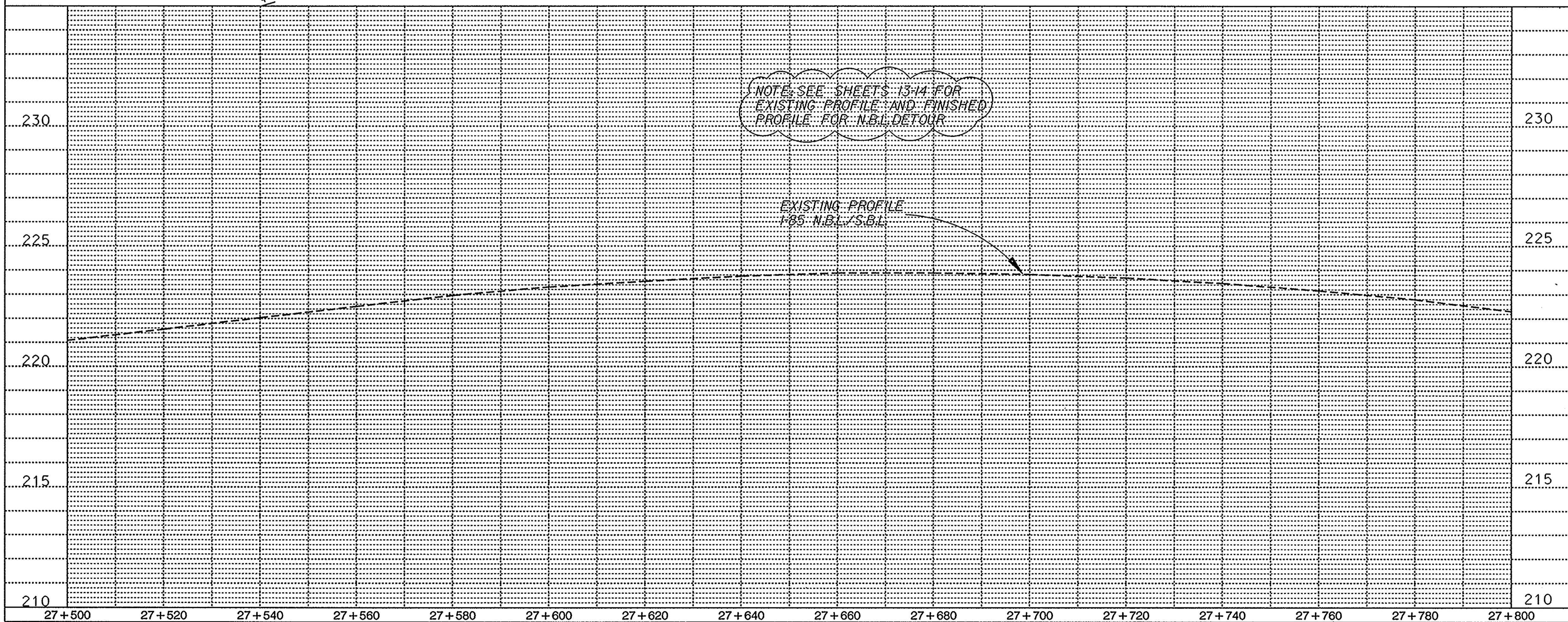
WATER:
SPARTANBURG WATER WORKS
200 COMMERCE ST.
SPARTANBURG, S.C. 29301
TEL. 803-585-9142

POWER:
DUKE POWER CO.
P.O. BOX 2349
SPARTANBURG, S.C. 29301

TELEPHONE:
SOUTHERN BELL
P.O. BOX 2109
SPARTANBURG, S.C. 29301
TEL. 803-573-4100
ATTN. KEVIN KEISLER


GAS:
PIEDMONT NATURAL GAS
P.O. BOX 5448
SPARTANBURG, S.C. 29304
TEL. 803-585-9800

PLACE 450 mm R.C. PIPE CULVERT BEVELED END SECTION &
PLACE 122.4 m-450 mm R.C. PIPE




NOTE: SEE SHEETS 13-14 FOR
EXISTING PROFILE AND FINISHED
PROFILE FOR N.B.L. DETOUR

EXISTING PROFILE
I-85 N.B.L./S.B.L.



South Carolina Department of Transportation



ROAD DESIGN

PLAN SCALE 1:500
PROFILE SCALE 1:500 HORIZONTAL
1:100 VERTICAL

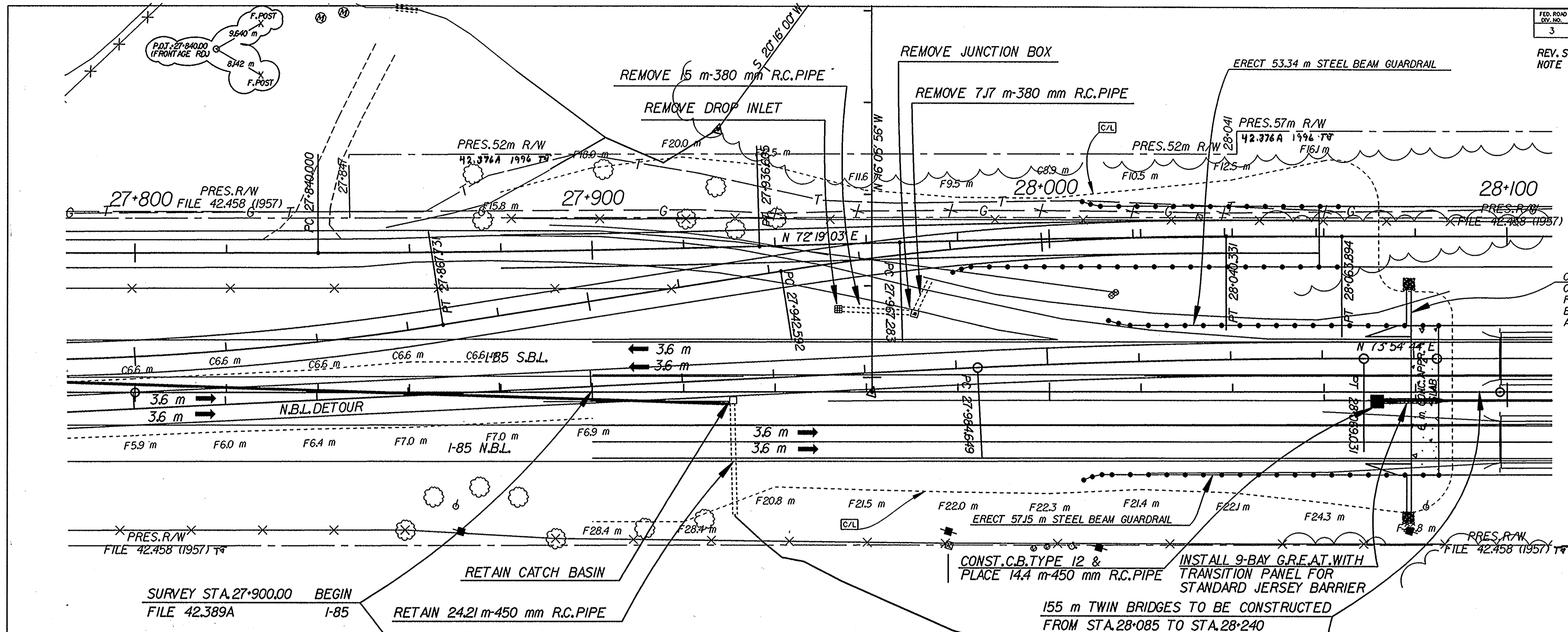
REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

DIRECTORY MAINSERV: 17735 /M17502PF.DGN
SERVER SUB DIR. FILE NAME
SQUAD NUMBER 3 INITIALS C.R.A.
TOPO BY NAME M.K.C. DATE 7-24-96
PIN NUMBER 17735

I-85 S.B.L./N.B.L.
I-85 N.B.L. DETOUR

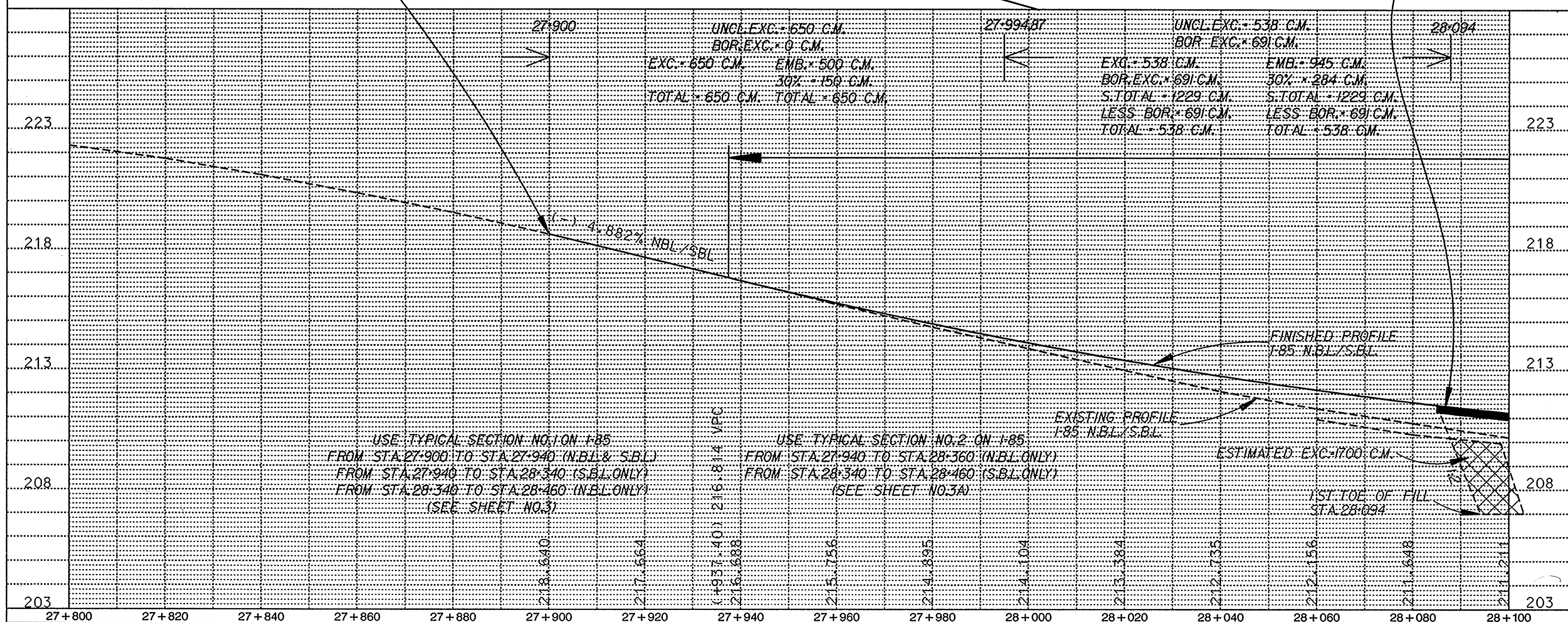
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c:\rdsqd3\17735\m17502pf.dgn
16-JAN-1997

REV. SHOULDER PAVING AND FLUME
NOTE PER C. MOORE C.W.F. 3-3-97
DVA



CONSTRUCT SHOULDER PAVING, BRIDGE END CONCRETE CURB (225 mm X 375 mm) AND FLUME WITH RIPRAP AND GEOTEXTILE. ERECT THREE BEAM BRIDGE CONNECTOR AND MELT (TYPICAL THREE CORNERS)

N.B.L. DETOUR
P.J.: 28+026.85
 $\Delta = 2'46''02.49''$ (RT.)
T = 42.20 m
L = 84.38 m
R = 1747.07 m
D.S. = 90 km/h
e = MAX + 0.08
e = 0.025 m/m



USE TYPICAL SECTION NO. 1 ON I-85
FROM STA. 27+900 TO STA. 27+940 (N.B.L. & S.B.L.)
FROM STA. 27+940 TO STA. 28+340 (S.B.L. ONLY)
FROM STA. 28+340 TO STA. 28+460 (N.B.L. ONLY)
(SEE SHEET NO. 3)

USE TYPICAL SECTION NO. 2 ON I-85
FROM STA. 27+940 TO STA. 28+360 (N.B.L. ONLY)
FROM STA. 28+340 TO STA. 28+460 (S.B.L. ONLY)
(SEE SHEET NO. 3)

SCDOT
South Carolina Department of Transportation

ROAD DESIGN

PLAN SCALE 1:500
PROFILE SCALE 1:500 HORIZONTAL 1:100 VERTICAL

REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

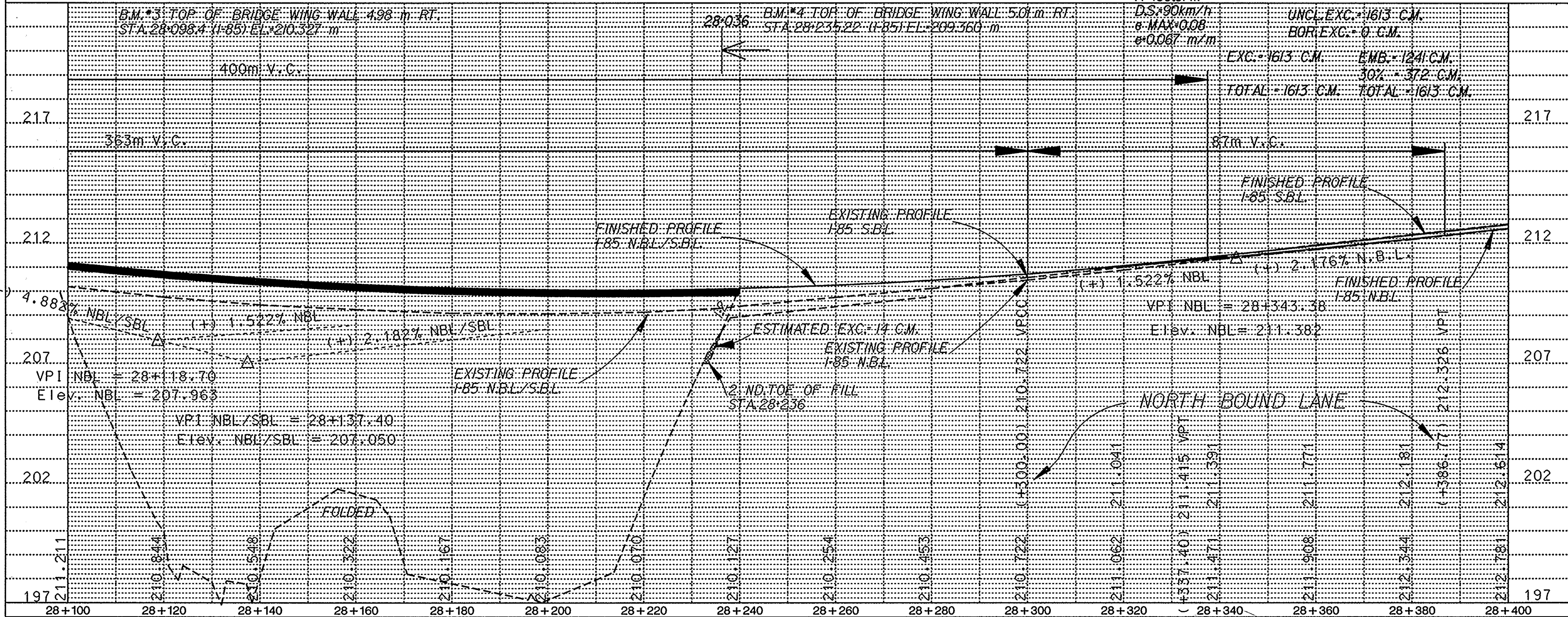
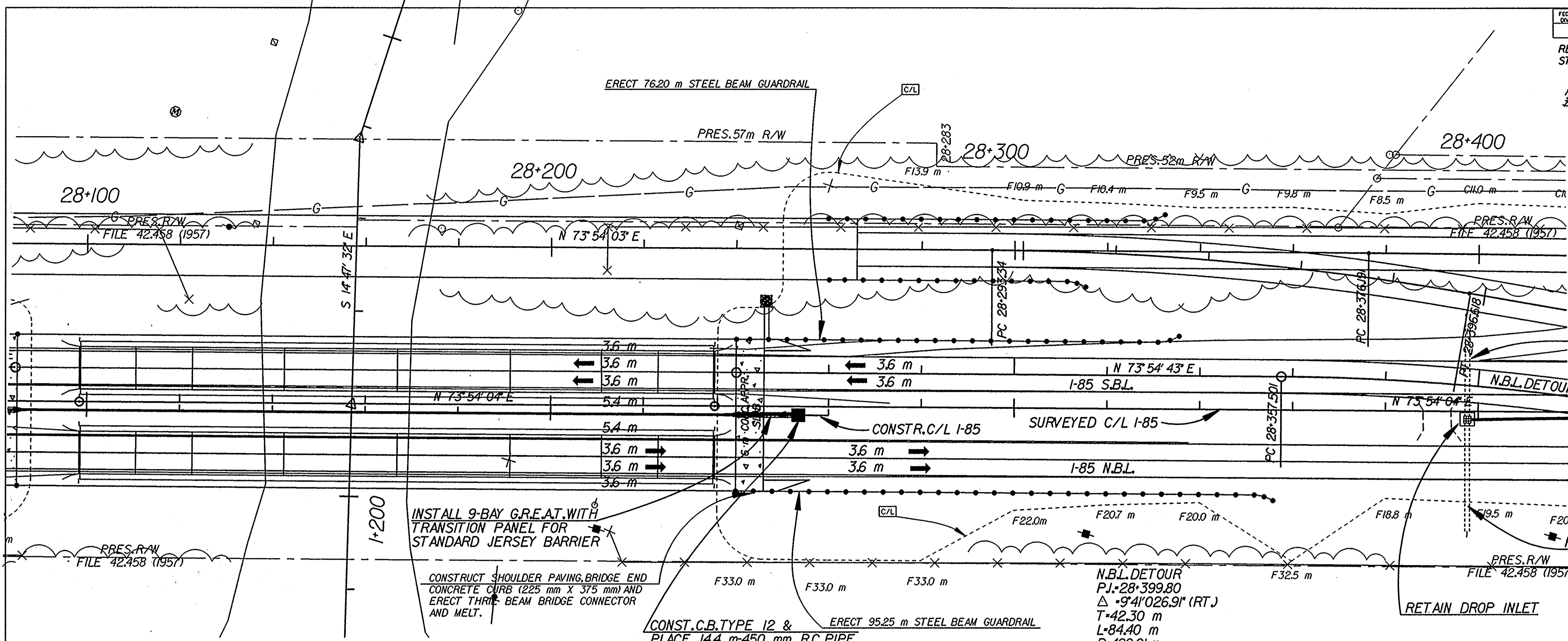
ESTIMATED EXC. = 1700 C.M.

1ST TOE OF FILL STA. 28+094

1-85 S.B.L./N.B.L.
1-85 N.B.L. DETOUR

a44226
C:\rdsd3\m17502pf.dgn
03-MAR-1997

REV. CONST. LIMITS RT. STA. 28+240 TO STA. 28+280 PER C. MOORE CWF 2-28-97
 OVA
 Flare & Pipecap Removed from End of NBL Bridge on Rt. Per MCM 3-3-97 OVA



SCDOT
 South Carolina Department of Transportation

Metric
 INTERNATIONAL SYSTEM OF UNITS

ROAD DESIGN

PLAN SCALE 1:500
 PROFILE SCALE 1:500 HORIZONTAL, 1:100 VERTICAL

REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION
8				
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UNCL. EXC. = 1613 CM
 BOR. EXC. = 0 CM
 EXC. = 1613 CM
 EMB. = 1241 CM
 30% = 372 CM
 TOTAL = 1613 CM
 TOTAL = 1613 CM

DS = 90 km/h
 e = MAX 0.08
 a = 0.067 m/s

ESTIMATED EXC. 14 CM
 EXISTING PROFILE I-85 NBL

2ND TOE OF FILL STA. 28+236

FINISHED PROFILE I-85 NBL

FINISHED PROFILE I-85 SBL

2.176% N.B.L.
 1.522% NBL
 2.182% NBL/SBL

VPI NBL = 28+118.70
 Elev. NBL = 207.963

VPI NBL/SBL = 28+137.40
 Elev. NBL/SBL = 207.050

NORTH BOUND LANE

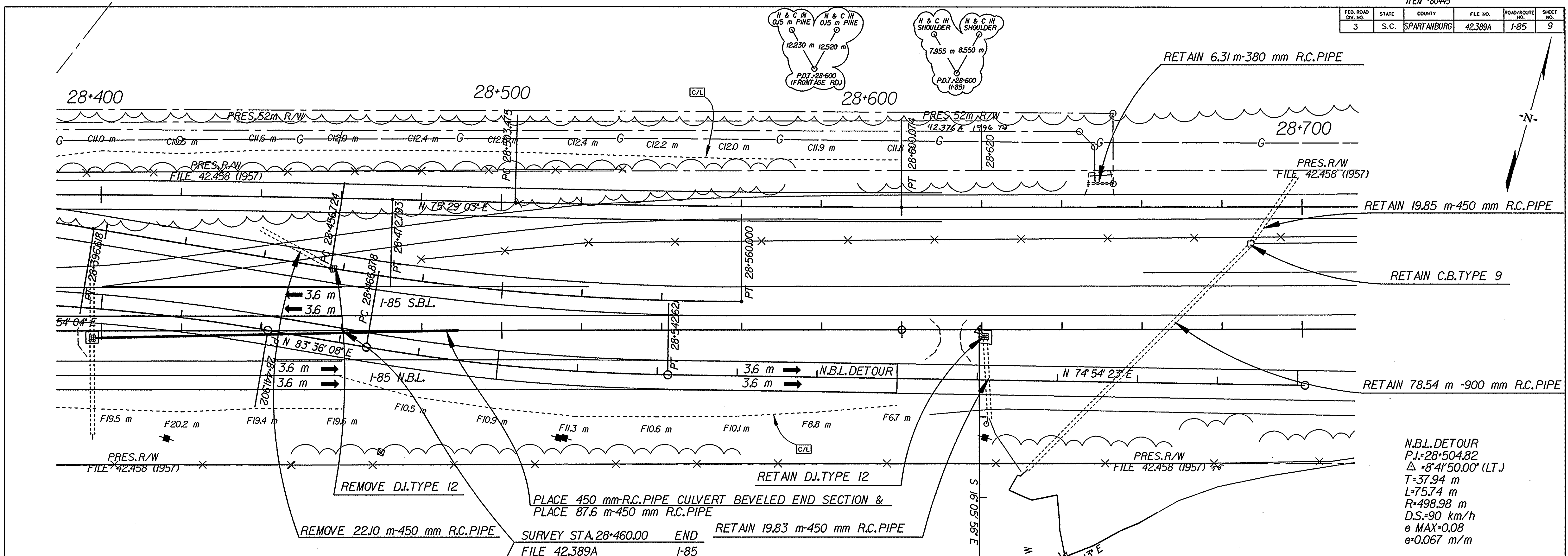
28+100 28+120 28+140 28+160 28+180 28+200 28+220 28+240 28+260 28+280 28+300 28+320 28+340 28+360 28+380 28+400

197 202 207 212 217

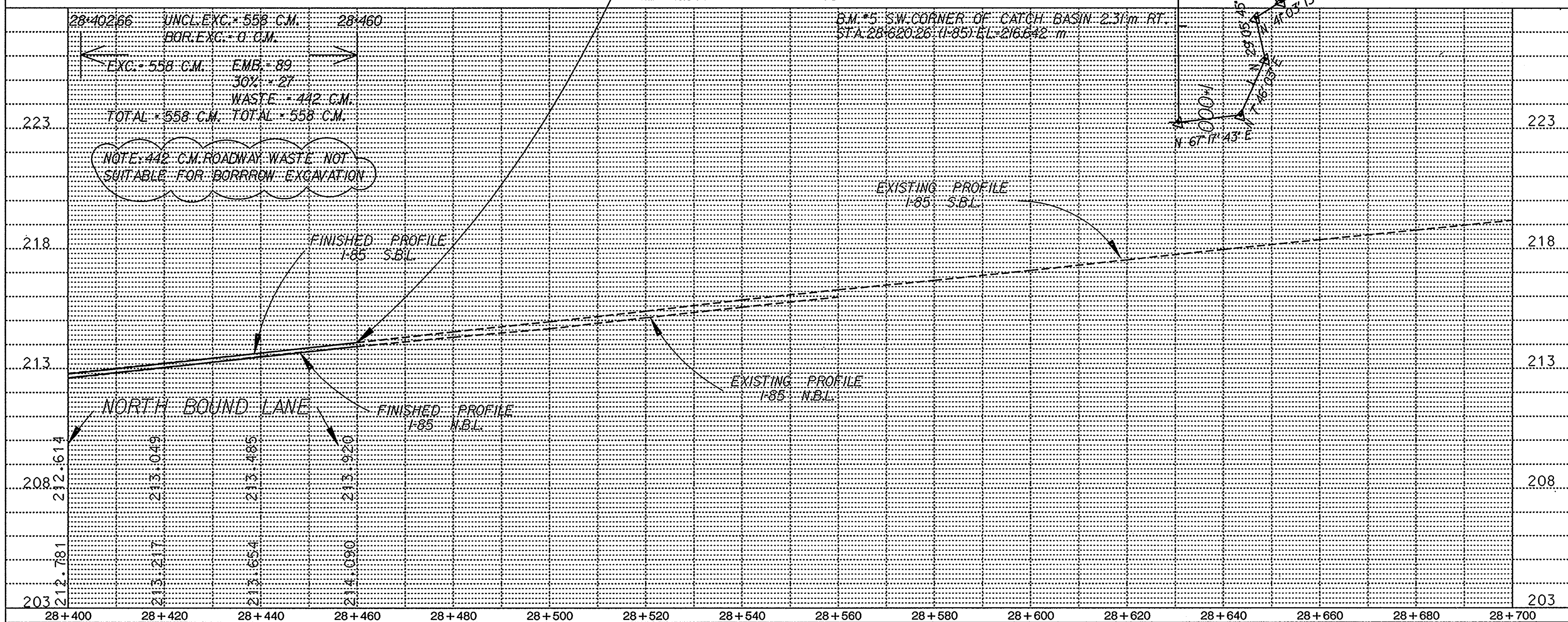
197 202 212 217

1-85 SBL/NBL
 I-85 NBL DETOUR

a44226
 C:\rdsqd3\m17502pf.dgn
 03-MAR-1997



N.B.L. DETOUR
 P.I. = 28+504.82
 $\Delta = 841'50.00"$ (LT.)
 T = 37.94 m
 L = 75.74 m
 R = 498.98 m
 D.S. = 90 km/h
 e = MAX +0.08
 e = 0.067 m/m



SCDOT
 South Carolina Department of Transportation

Metric
 SYSTEM OF UNITS

ROAD DESIGN

PLAN SCALE 1:500
 PROFILE SCALE 1:500 HORIZONTAL 1:100 VERTICAL

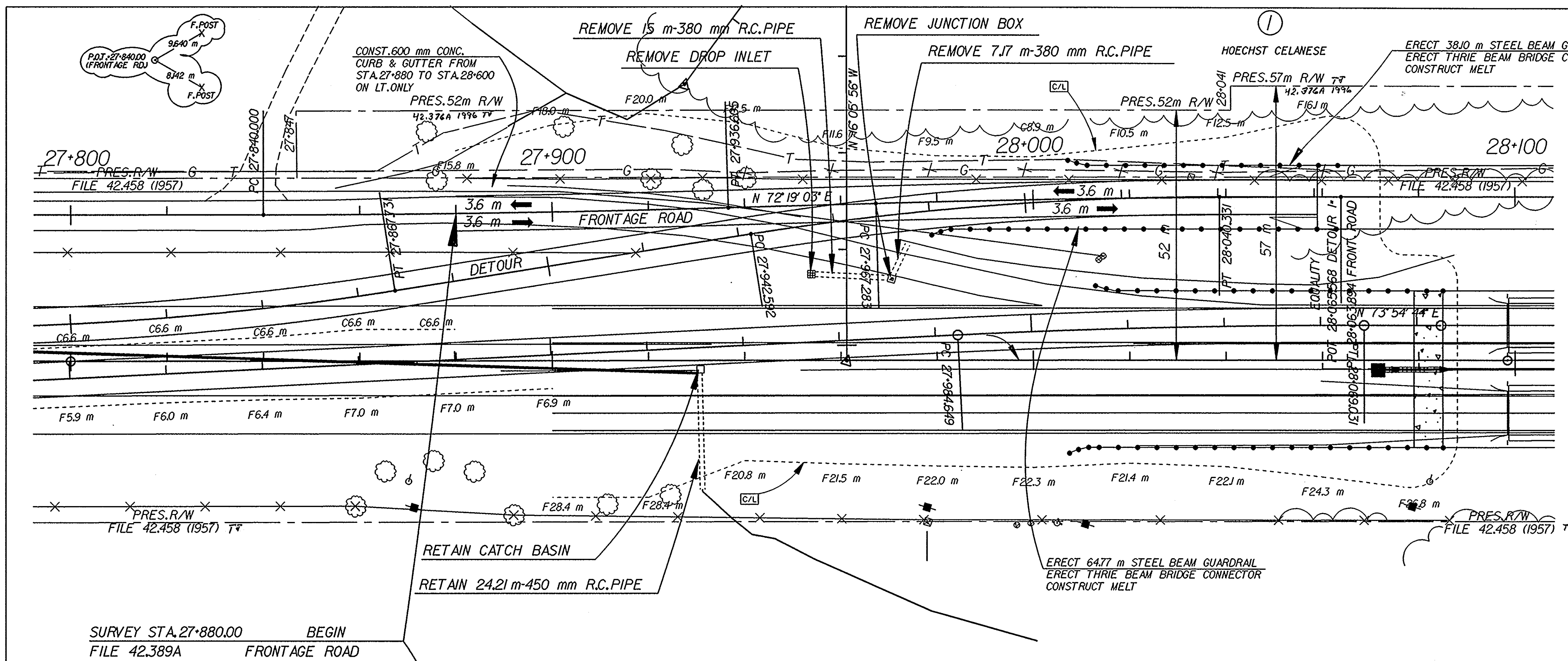
REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

DIRECTORY MAINSERV: 17735 /M17502PF.DGN
 SERVER SUB DIR. FILE NAME
 SQUAD NUMBER 3 INITIALS C.W.F.
 TOPO BY NAME M.K.C. DATE 7-24-96
 PIN NUMBER 17735

I-85 S.B.L./N.B.L.
 I-85 N.B.L. DETOUR

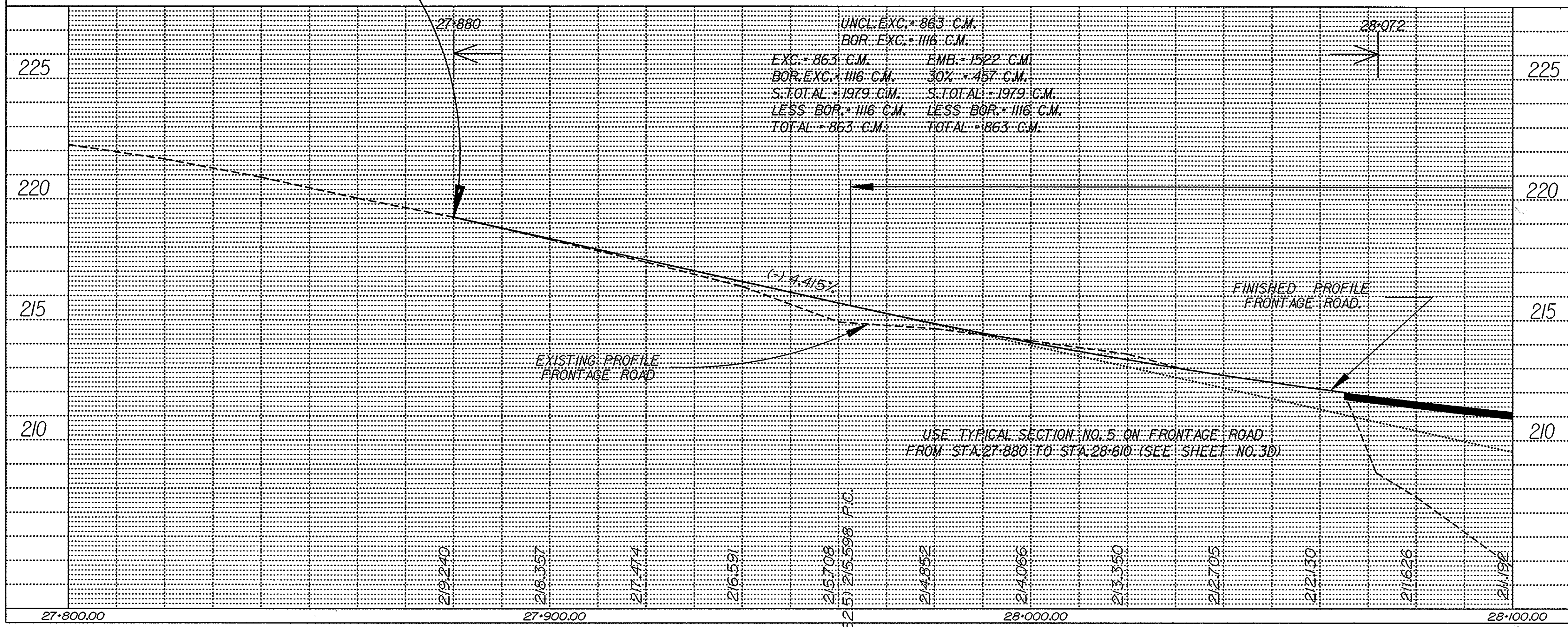
c41490
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 16-JAN-1997


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	1-85	10




FRONTAGE ROAD FRONTAGE ROAD

PI = 27.888,31	PI = 28.015,59
Δ = 1° 35' 06" (LT)	Δ = 1° 35' 05" (RT)
T = 48,31 m	T = 48,31 m
L = 96,60 m	L = 96,61 m
R = 3,492,25 m	R = 3,492,95 m
E = 0,33 m	E = 0,33 m
NO S.E.	NO S.E.





South Carolina Department of Transportation



ROAD DESIGN

PLAN SCALE	1:500	
PROFILE SCALE	1:500	HORIZONTAL
	1:100	VERTICAL

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REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

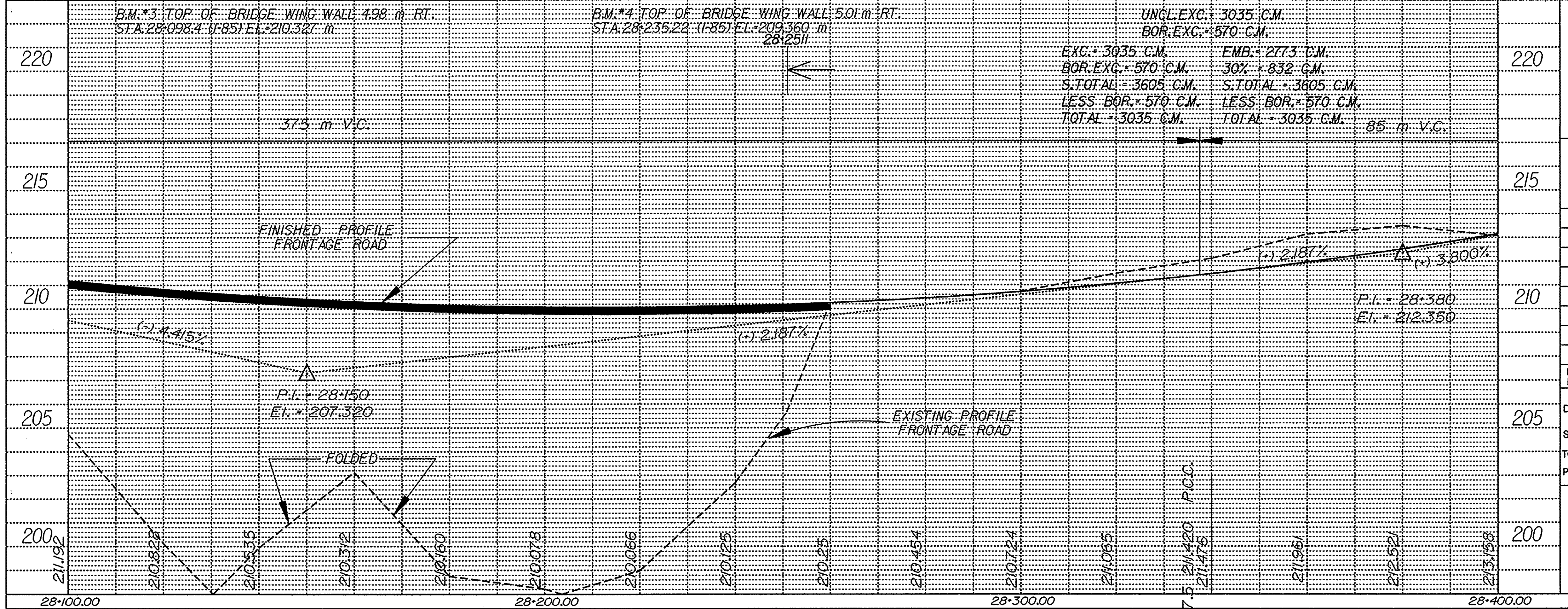
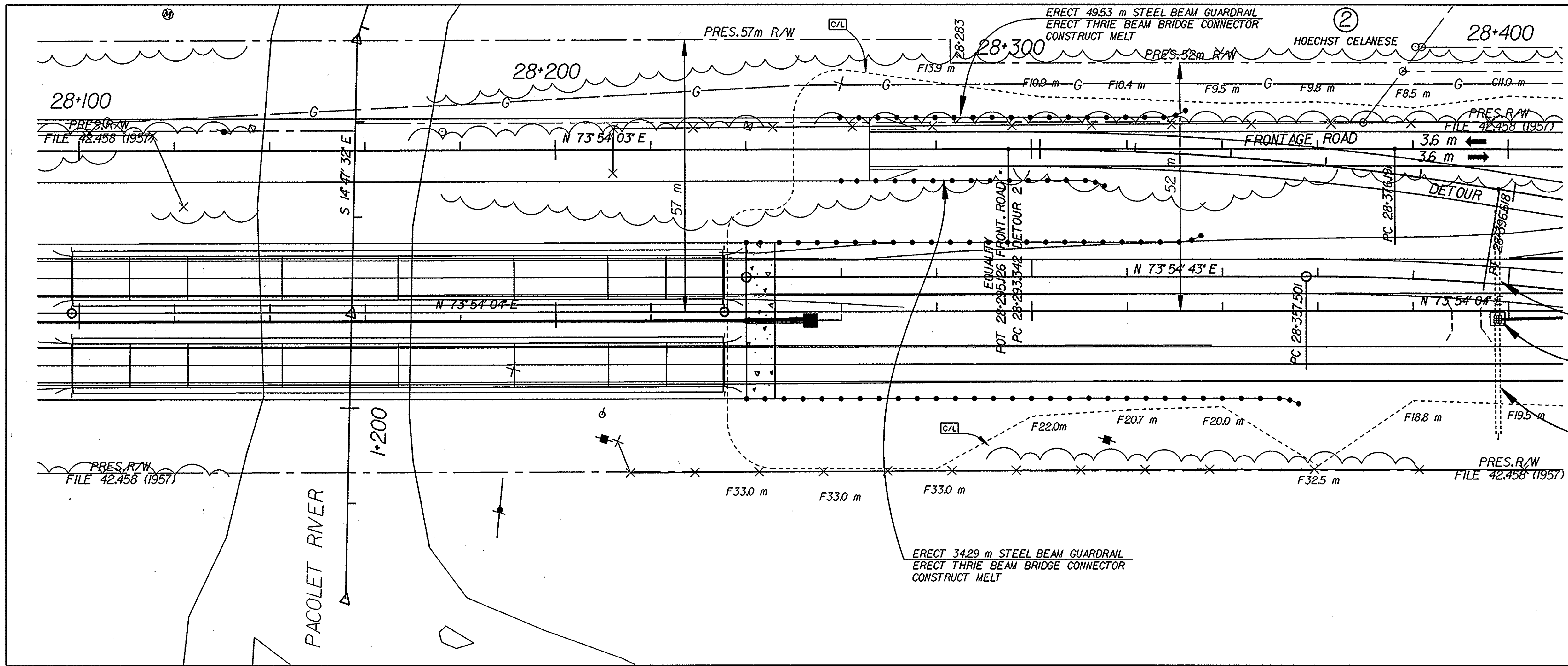
DIRECTORY	MAINSERV : 17735	FILE NAME	/M17502PF.DGN
SQUAD NUMBER	3	INITIALS	C.R.A.
TOPO BY	NAME M.K.C.	DATE	2-21-1995
PIN NUMBER	17735		

FRONTAGE ROAD

a41490
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 16-JAN-1997

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	11

REV. CONST. LIMITS RT. STA. 28+240 TO STA. 28+280 PER C. MOORE CWF 2-28-97
MCM



SCDOT
South Carolina Department of Transportation

Metric
INTERNATIONAL SYSTEM OF UNITS

ROAD DESIGN

PLAN SCALE 1:500
PROFILE SCALE 1:500 HORIZONTAL
1:100 VERTICAL

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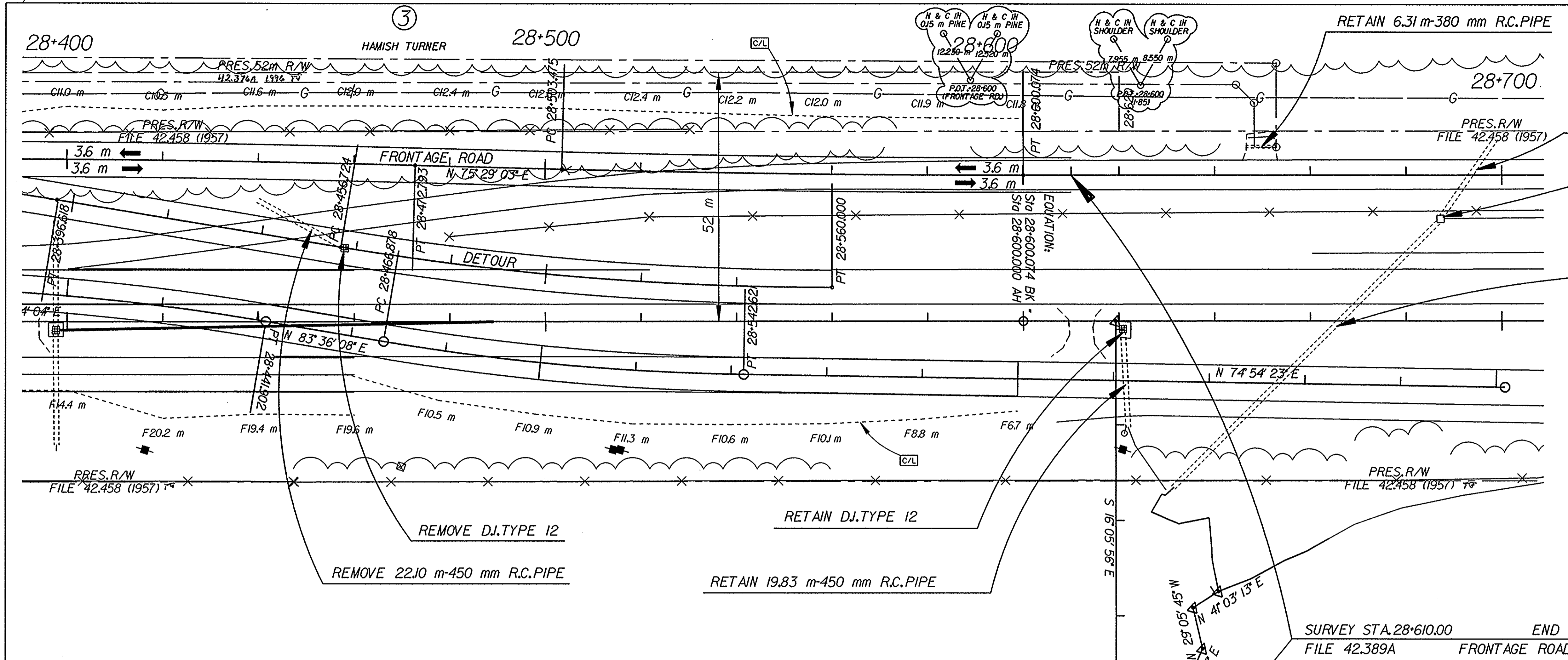
REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

DIRECTORY MAINSERV: 17735 M17502PF.DGN
 SERVER SUB DIR. FILE NAME
 SQUAD NUMBER 3 INITIALS C.R.A.
 TOPO BY NAME M.K.C. DATE 2-21-1995
 PIN NUMBER 17735

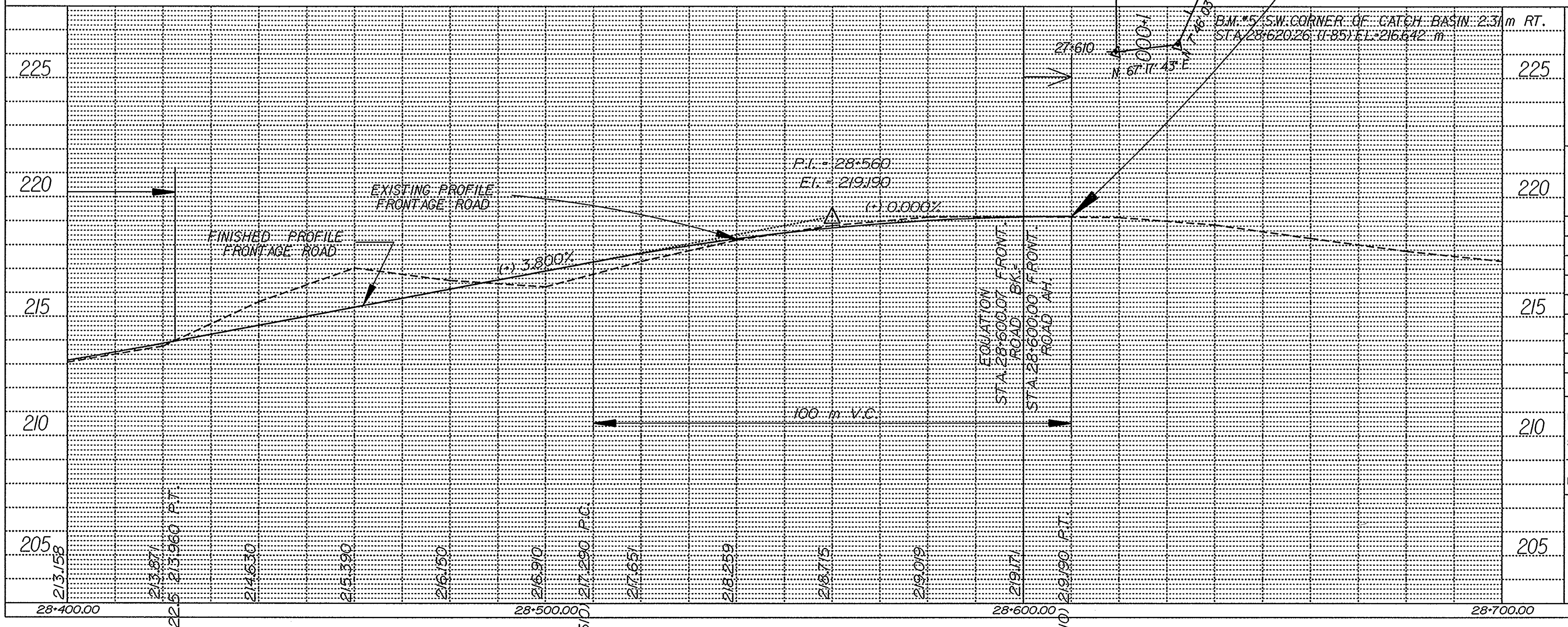
FRONTAGE ROAD

a44226
c:\rdsqd3\17735\m17502pf.dgn
28-FEB-1997

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	1-85	12



FRONTAGE ROAD PI = 28-424.50 Δ = 1° 35' 04" (RT) T = 48.30 m L = 96.60 m R = 3,493.29 m E = 0.33 m NO S.E.	FRONTAGE ROAD PI = 28-551.78 Δ = 1° 35' 08" (LT) T = 48.30 m L = 96.60 m R = 3,490.43 m E = 0.33 m NO S.E.
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SCDOT
South Carolina Department of Transportation

Metric
INTERNATIONAL
SYSTEM OF UNITS

ROAD DESIGN

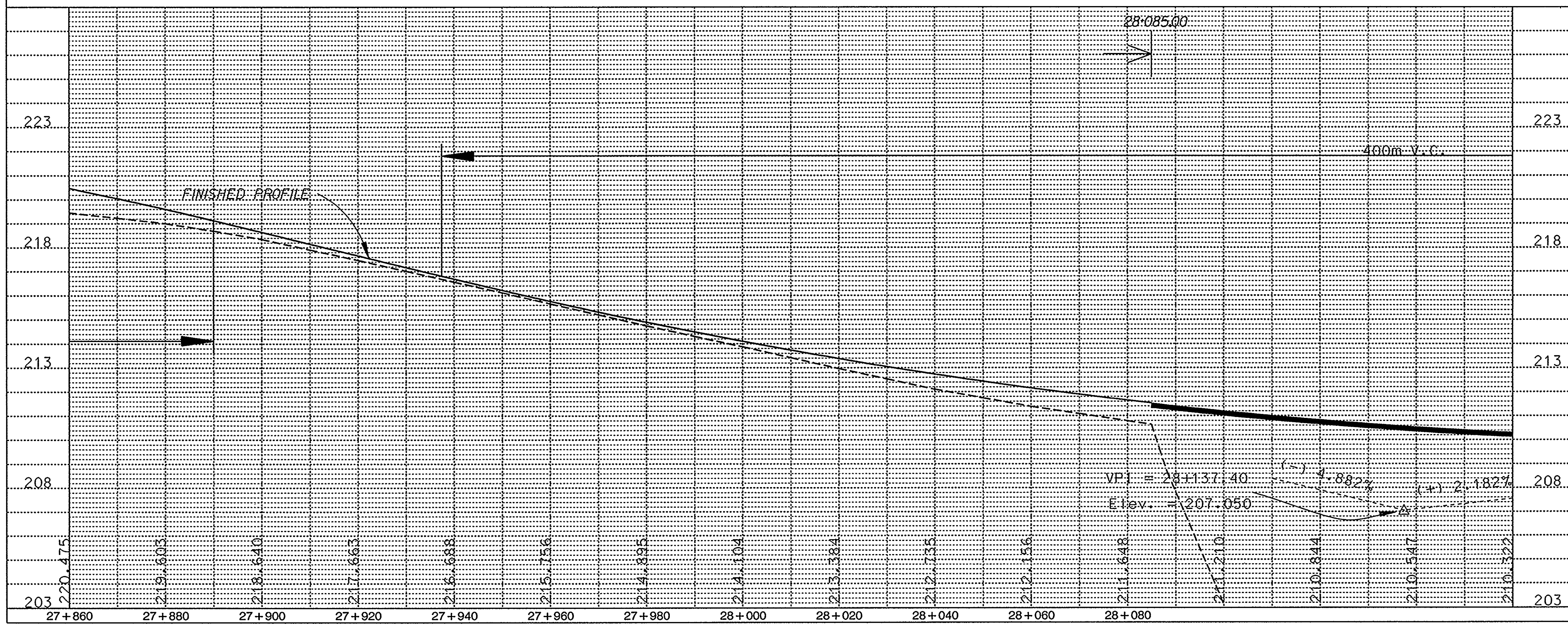
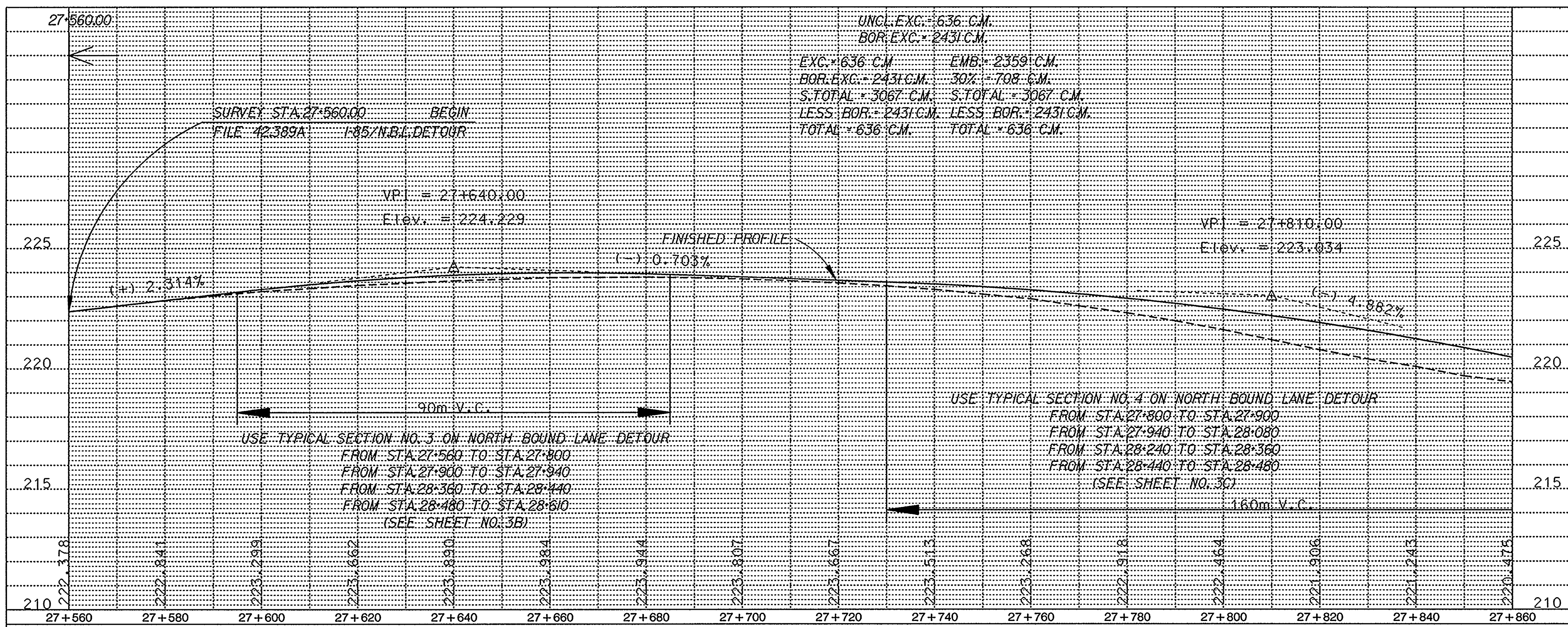
PLAN SCALE 1:500
PROFILE SCALE 1:500 HORIZONTAL, 1:100 VERTICAL

REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION
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DIRECTORY MAINSERV: 17735 /M17502PF.DGN
SERVER SUB DIR. FILE NAME
SQUAD NUMBER 3 INITIALS C.R.A.
TOPO BY NAME M.K.C. DATE 2-21-1995
PIN NUMBER 17735

FRONTAGE ROAD

a41490
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18-DEC-1996



SCDOT
 South Carolina Department of Transportation

Metric
 INTERNATIONAL SYSTEM OF UNITS

ROAD DESIGN

PLAN SCALE 1:500
 PROFILE SCALE 1:500 HORIZONTAL, 1:100 VERTICAL

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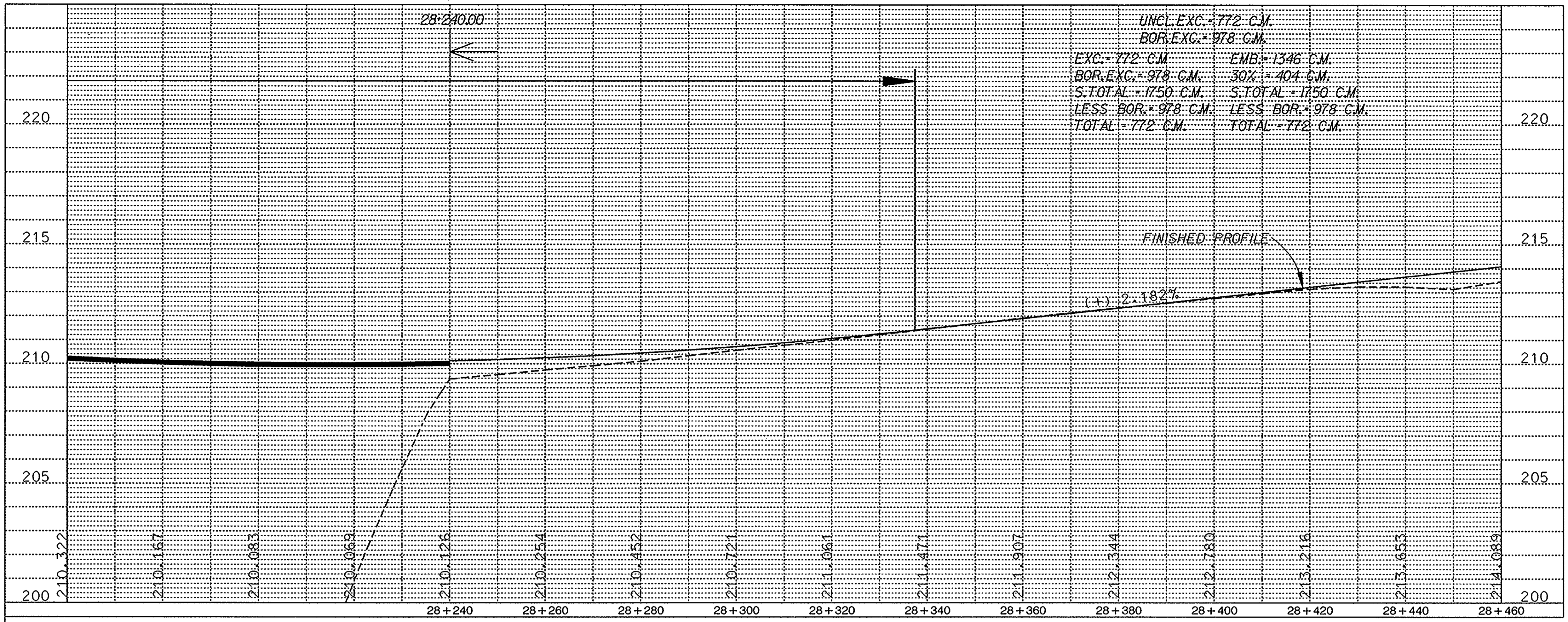
REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

DIRECTORY MAINSERV: 17735 /M17502PF.DGN
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 SQUAD NUMBER 3 INITIALS C.R.A.
 TOPO BY NAME M.K.C. DATE 2-21-1995
 PIN NUMBER 17735

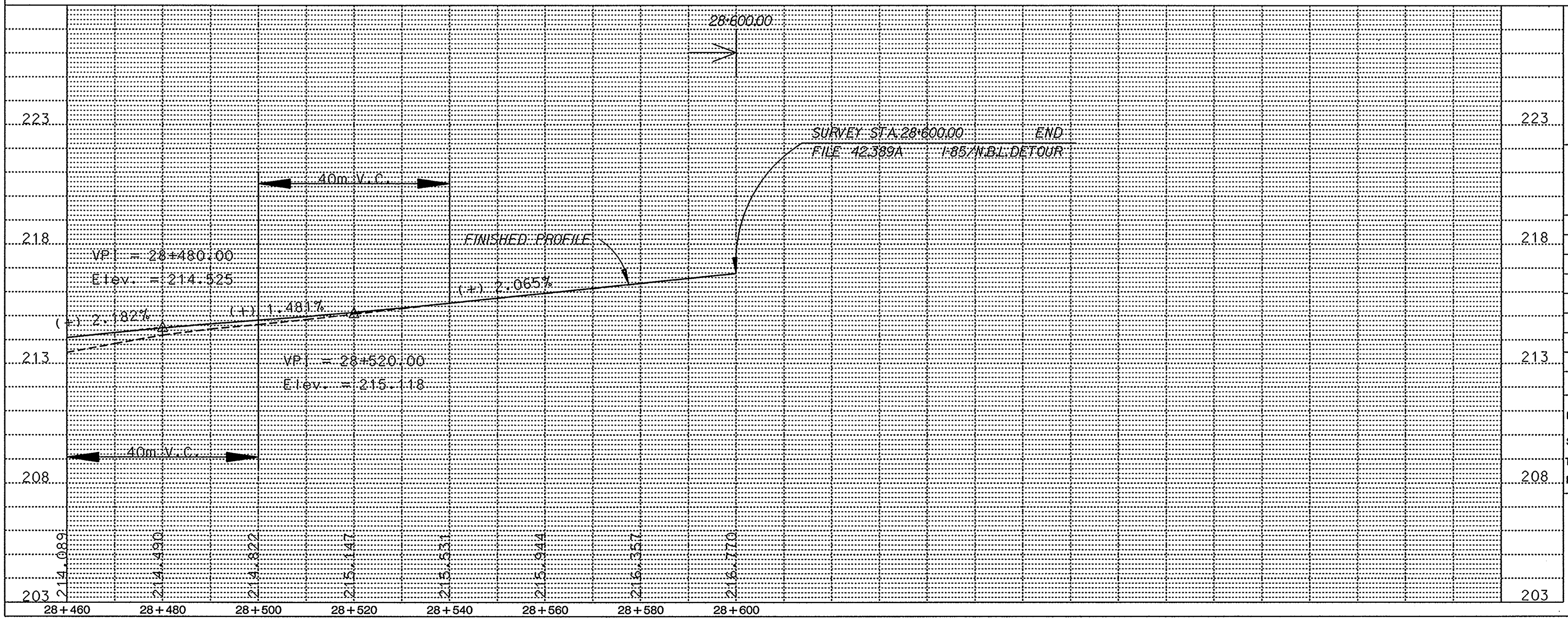
I-85/NORTH BOUND LANE DETOUR

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 03-JAN-1997

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	1-85	14



UNCL. EXC. = 772 C.M.
BOR. EXC. = 978 C.M.
EXC. = 772 C.M. EMB. = 1346 C.M.
BOR. EXC. = 978 C.M. 30% = 404 C.M.
S. TOTAL = 1750 C.M. S. TOTAL = 1750 C.M.
LESS BOR. = 978 C.M. LESS BOR. = 978 C.M.
TOTAL = 772 C.M. TOTAL = 772 C.M.



SCDOT
South Carolina Department of Transportation

Metric
INTERNATIONAL SYSTEM OF UNITS

ROAD DESIGN

PLAN SCALE 1:500
PROFILE SCALE 1:500 HORIZONTAL
1:100 VERTICAL

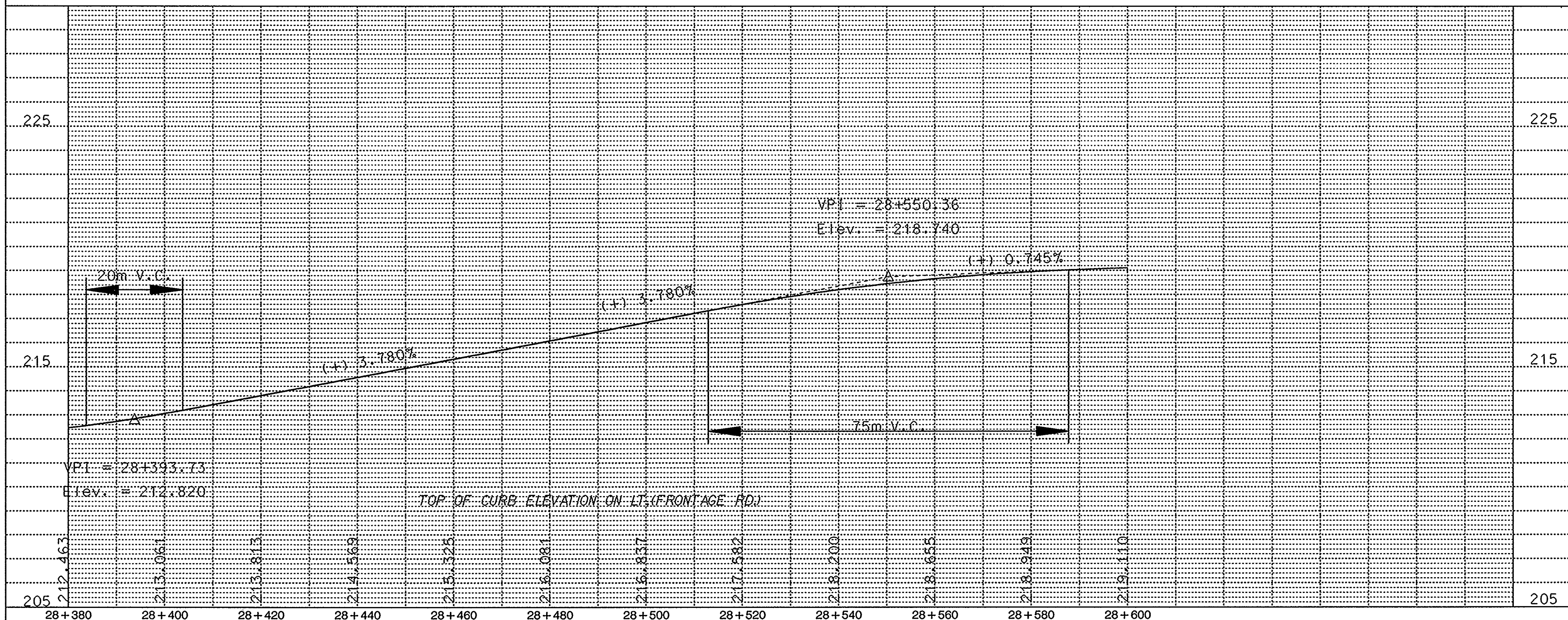
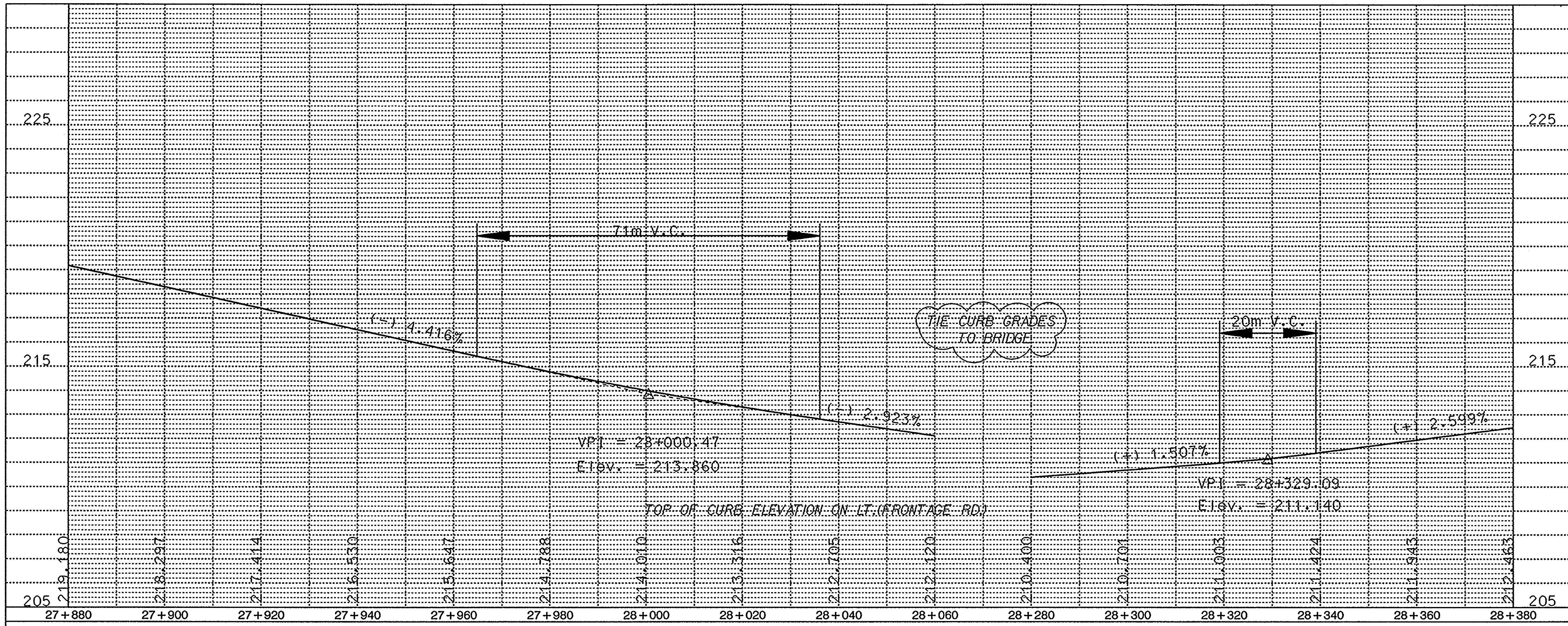
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REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

DIRECTORY MAINSERV : 17735 /M17502PF.DGN
SERVER SUB DIR. FILE NAME
SQUAD NUMBER 3 INITIALS C.R.A.
TOPO BY NAME M.K.C. DATE 2-21-1995
PIN NUMBER 17735

I-85/NORTH BOUND
LANE DETOUR

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c:\rdsqd3\17735\m17502pf.dgn
20-DEC-1996



ROAD DESIGN

PLAN SCALE 1:500
 PROFILE SCALE 1:500 HORIZONTAL
 1:100 VERTICAL

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REV. NO.	MADE BY	AUTH. BY	DATE	DESCRIPTION

DIRECTORY MAINSERV : 17735 /M17502PF.DGN
 SERVER SUB DIR. FILE NAME
 SQUAD NUMBER 3 INITIALS C.R.A.
 TOPO BY NAME M.K.C. DATE 2-21-1995
 PIN NUMBER 17735

FRONTAGE RD.
 TOP OF CURB GRADE LT.

a41490
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 18-DEC-1996

TYPICAL IX TRAFFIC CONTROL

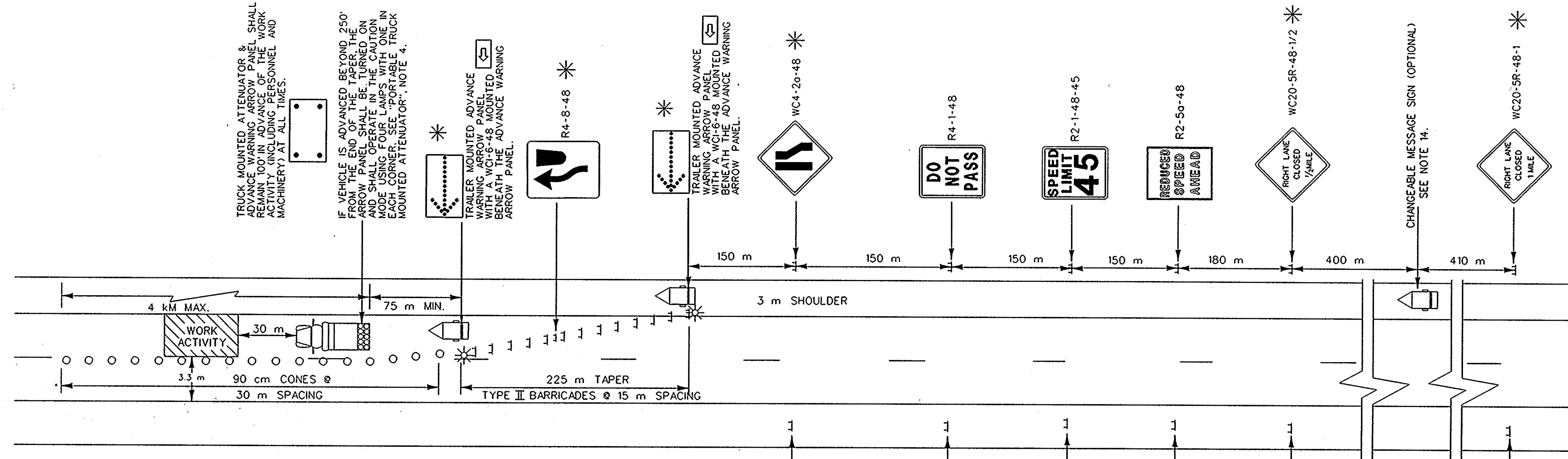
(NO SCALE)
LANE CLOSURE
DAYTIME
INTERSTATE STANDARDS

LEGEND

- * TYPE II BARRICADES MOUNTED WITH 18 cm AMBER TYPE "B" HIGH INTENSITY FLASHING LIGHTS.
- o 90 cm CONES

* LEFT LANE CLOSURE

- 1.) SIGNS ILLUSTRATED ARE USED FOR CLOSING THE RIGHT LANE.
- 2.) WHEN LEFT LANE IS CLOSED, USE THE FOLLOWING:
 2-WC20-5L-48-1/2 MILE 2-WC20-5L-48-1 MILE
 2-WC4-2b-48 1-R4-7-48
- 3.) BARRICADES ON LEFT OF TRAFFIC SHALL HAVE RIGHT SLOPING STRIPES.
- 4.) THE FLASHING ARROW AND WC1-6-48 SHALL POINT TO THE RIGHT.
- 5.) CHANGEABLE MESSAGE SIGN SHALL FLASH ALTERNATELY TO READ "LEFT LANE CLOSED", "MAX SPEED 45 MPH". CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON THE LEFT SHOULDER WHERE SUFFICIENT SPACE EXIST SUCH THAT THE SIGN DOES NOT ENCRANCH ON TRAVELWAY.



REQUIREMENTS

- 1.) ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
- 2.) ALL ADVANCE SIGNS ARE TO BE MOUNTED 0.6 m FROM THE EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB OR 1.8 - 3.6 m FROM THE EDGE OF AN ADJACENT TRAVEL LANE WHERE NO PAVED SHOULDER EXISTS TO THE NEAREST EDGE OF THE SIGN. ALSO, THE ADVANCE SIGNS ARE TO BE MOUNTED 2.1 m FROM THE GROUND TO THE BOTTOM EDGE OF THE SIGN. SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF DOUBLE-FACED GUARDRAIL, CONCRETE MEDIAN BARRIER, AND/OR BRIDGE PARAPET WALLS AND SHALL BE PROVIDED BY THE CONTRACTOR.
- 3.) ALL SIGNS, DRUMS, AND BARRICADES ARE TO BE REFLECTORIZED USING TYPE III SHEETING UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS.
- 4.) THE FIRST AND LAST TRAFFIC CONTROL DEVICE IN A TAPER SHALL BE SUPPLEMENTED WITH 18 cm AMBER TYPE "B" HIGH INTENSITY FLASHING LIGHTS. ALL WARNING LIGHTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AS SPECIFIED IN PART VI OF THE SCMTCD, LATEST EDITION.
- 5.) SPACINGS INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED BECAUSE OF HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS.
- 6.) THE CONTRACTOR SHALL PERFORM HIS WORK IN SUCH A MANNER SO AS NOT TO ENCRANCH ONTO THE LANE ADJACENT TO THE CLOSED LANE. TRAFFIC CONTROL DEVICES SHALL BE PLACED AND ADJUSTED ACCORDINGLY DURING WORKING HOURS.
- 7.) IF WORK IS BEING DONE AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, THE CONTRACTOR WILL NOT BE ALLOWED TO BLOCK ONE LANE AT ONE LOCATION AND A DIFFERENT LANE AT THE OTHER OPERATION. WORK AT THE TWO LOCATIONS IS TO BE DONE IN THE SAME LANE UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DIRECTOR OF TRAFFIC ENGINEERING.
- 8.) IF WORK IS BEING DONE AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, THE TWO LOCATIONS ARE TO BE SEPARATED BY A MINIMUM DISTANCE OF 4 km FROM THE END OF ONE LANE CLOSURE TO THE BEGINNING OF THE TAPER AT THE OTHER LOCATION. A COMPLETE SET OF SIGNS WILL BE REQUIRED AT EACH LOCATION.
- 9.) IF THE TRAFFIC CONTROL IS NOT MAINTAINED ACCORDING TO THE SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR THE PLANS, THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT CONSTRUCTION OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATES.
- 10.) TYPE II BARRICADES SHALL HAVE A MINIMUM WIDTH OF 1.2 m.
- 11.) CONES THAT ARE USED ONLY DURING DAYLIGHT HOURS ARE NOT REQUIRED TO BE REFLECTORIZED. PORTABLE PLASTIC DRUMS MAY BE SUBSTITUTED FOR CONES.
- 12.) FLAT SHEET SIGNS ARE TO BE MOUNTED SUCH THAT THEY ARE STRAIGHT AND LEVEL AND SUCH THAT THE FACE OF THE SIGNS ARE PERPENDICULAR TO THE SURFACE OF ROADWAY.
- 13.) LANE CLOSURES SHALL BE RESTRICTED TO MAXIMUM DISTANCES OF 4 km UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DIRECTOR OF TRAFFIC ENGINEERING.
- 14.) UTILIZATION OF A CHANGEABLE MESSAGE SIGN SHALL BE BASED ON THE REQUIREMENTS SET FORTH BY THE SPECIAL PROVISIONS. WHEN REQUIRED, THE SIGN WILL BE INSTALLED AS SHOWN ON THIS TYPICAL UNLESS OTHERWISE SPECIFIED BY THE SPECIAL PROVISIONS. THE SIGN SHALL FLASH ALTERNATELY TO READ "RIGHT LANE CLOSED", "MAX SPEED 45 MPH" AT A RATE SO THAT MOTORIST CAN READ BOTH MESSAGES AT LEAST ONCE. THE CHANGEABLE MESSAGE SIGN SHALL MEET ALL REQUIREMENTS AS SPECIFIED BY THE ADDENDUM "CHANGEABLE MESSAGE SIGN" DATED APRIL 01, 1994.

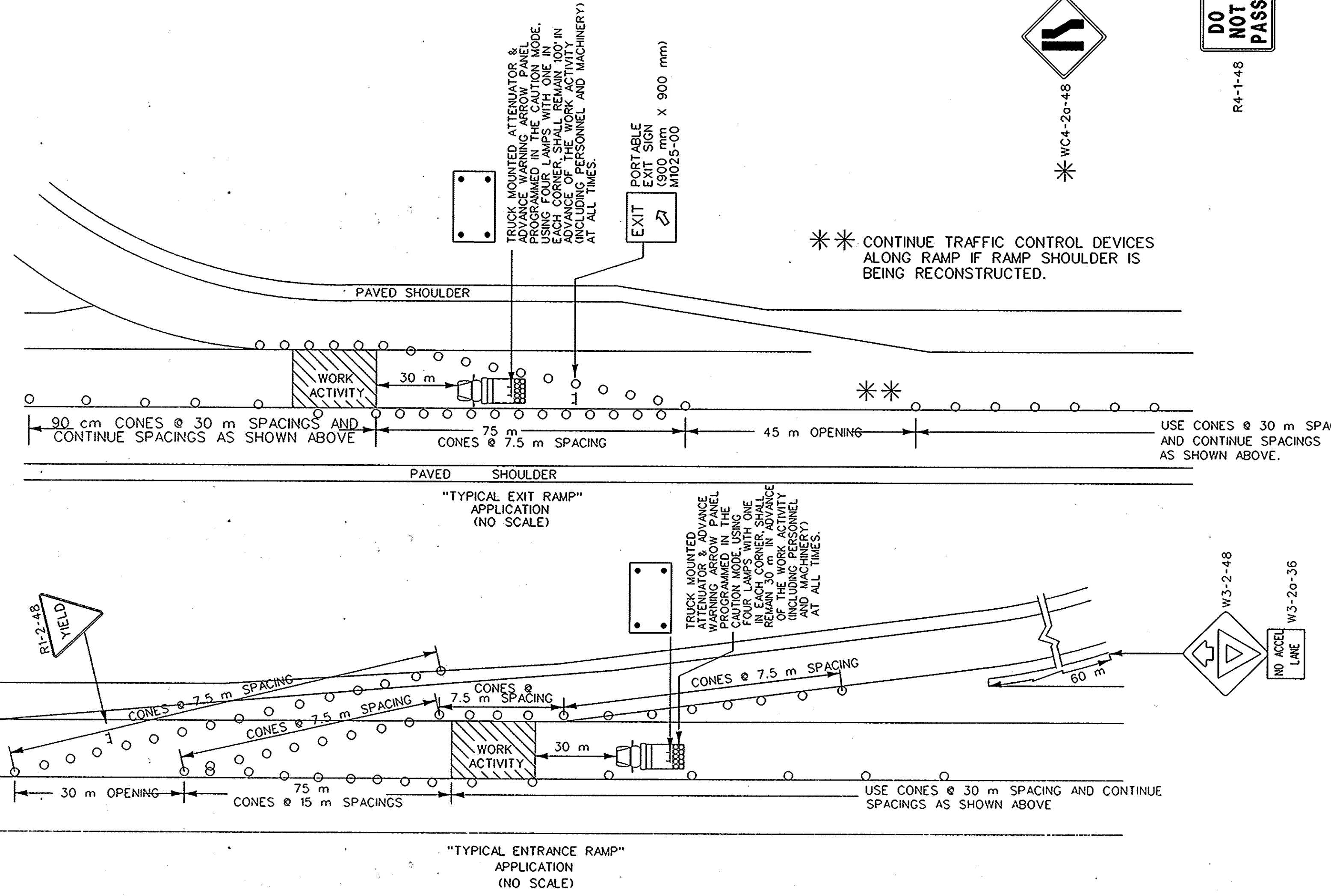
PORTABLE TRUCK MOUNTED ATTENUATOR

- 1.) THE PORTABLE ATTENUATOR SHALL BE TRUCK MOUNTED. THE TRUCK SHALL HAVE A GROSS WEIGHT OF NO LESS THAN 6800 kg. (ACTUAL VEHICLE WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, ONLY DRY LOOSE SAND MAY BE UTILIZED AS A BALLAST.
- 2.) THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE LOCATED 30 m IN ADVANCE OF THE WORK AREA WHEN THE WORK AREA IS WITHIN THE THROUGH TRAVEL LANES.
- 3.) THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS TYPICAL DRAWING AND THE ADDENDUM "TRUCK MOUNTED ATTENUATORS" DATED MARCH 16, 1994.
- 4.) THE TRUCK MOUNTED ATTENUATOR AND ADVANCE WARNING ARROW PANEL MAY BE REPLACED WITH TRAILER MOUNTED ADVANCE WARNING ARROW PANEL WHEN THIS LANE CLOSURE IS UTILIZED FOR ASPHALT CONCRETE PLACEMENT OPERATIONS. REPLACEMENT WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL SHALL REQUIRE APPROVAL FROM THE ENGINEER.

ADVANCE WARNING ARROW PANEL

THE ADVANCE WARNING ARROW PANEL SHALL BE 120 cm X 240 cm WITH A MINIMUM LEGIBILITY DISTANCE OF 1.5 km. THE ADVANCE WARNING ARROW PANEL PLACEMENT MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. THESE ADVANCE WARNING ARROW PANELS SHALL MEET ALL REQUIREMENTS AS SPECIFIED BY THE ADDENDUM "ADVANCE WARNING ARROW PANELS" DATED MARCH 15, 1994.

SOUTH CAROLINA DEPARTMENT OF HIGHWAYS & PUBLIC TRANSPORTATION	
DRAWING NO.:	
APPROVED BY:	DESIGNED BY:
DIRECTOR OF TRAFFIC ENGINEERING	
DATE	INT. DATE



** CONTINUE TRAFFIC CONTROL DEVICES ALONG RAMP IF RAMP SHOULDER IS BEING RECONSTRUCTED.

TRUCK MOUNTED ATTENUATOR & ADVANCE WARNING ARROW PANEL PROGRAMMED IN THE CAUTION MODE, USING FOUR LAMPS WITH ONE IN EACH CORNER, SHALL REMAIN 100' IN ADVANCE OF THE WORK AREA (INCLUDING PERSONNEL AND MACHINERY) AT ALL TIMES.

TRUCK MOUNTED ATTENUATOR & ADVANCE WARNING ARROW PANEL SHALL REMAIN 100' IN ADVANCE OF THE WORK ACTIVITY (INCLUDING PERSONNEL AND MACHINERY) AT ALL TIMES.

IF VEHICLE IS ADVANCED BEYOND 250' FROM THE END OF THE TAPER, THE ARROW PANEL SHALL BE TURNED ON AND SHALL OPERATE IN THE CAUTION MODE. EACH CORNER SHALL HAVE ONE IN ADVANCE OF THE WORK ACTIVITY (INCLUDING PERSONNEL AND MACHINERY); NOTE 4.

TRAILER MOUNTED ADVANCE WARNING ARROW PANEL MOUNTED BEHIND THE ADVANCE WARNING ARROW PANEL.

TRAILER MOUNTED ADVANCE WARNING ARROW PANEL MOUNTED BEHIND THE ADVANCE WARNING ARROW PANEL.

TRUCK MOUNTED ATTENUATOR & ADVANCE WARNING ARROW PANEL PROGRAMMED IN THE CAUTION MODE, USING FOUR LAMPS WITH ONE IN EACH CORNER, SHALL REMAIN 100' IN ADVANCE OF THE WORK ACTIVITY (INCLUDING PERSONNEL AND MACHINERY) AT ALL TIMES.

TRUCK MOUNTED ATTENUATOR & ADVANCE WARNING ARROW PANEL PROGRAMMED IN THE CAUTION MODE, USING FOUR LAMPS WITH ONE IN EACH CORNER, SHALL REMAIN 100' IN ADVANCE OF THE WORK ACTIVITY (INCLUDING PERSONNEL AND MACHINERY) AT ALL TIMES.

TYPICAL X TRAFFIC CONTROL

(NO SCALE)

LANE CLOSURE NIGHTTIME INTERSTATE STANDARDS

LEGEND

- ☀ TRAFFIC CONTROL DEVICES MOUNTED WITH 18 cm AMBER TYPE "B" HIGH INTENSITY FLASHING LIGHTS.
- ☀ TRAFFIC CONTROL DEVICES MOUNTED WITH 18 cm AMBER TYPE "C" STEADY BURNING LIGHTS.
- PORTABLE PLASTIC DRUMS

*LEFT LANE CLOSURE

- 1.) SIGNS ILLUSTRATED ARE USED FOR CLOSING THE RIGHT LANE.
- 2.) WHEN LEFT LANE IS CLOSED, USE THE FOLLOWING:
 - 2-WC20-5L-48-1/2 MILE
 - 2-WC20-5L-48-1 MILE
 - 1-R-4-7-48
 - 2-WC4-2b-48
- 3.) BARRICADES ON LEFT OF TRAFFIC SHALL HAVE RIGHT SLOPING STRIPES.
- 4.) THE FLASHING ARROW AND WCI-6-48 SHALL POINT TO THE RIGHT.
- 5.) CHANGEABLE MESSAGE SIGN SHALL FLASH ALTERNATELY TO READ "LEFT LANE CLOSED", "MAX SPEED 45 MPH". CHANGEABLE MESSAGE SIGN SHALL BE PLACED ON THE LEFT SHOULDER WHERE SUFFICIENT SPACE EXIST SUCH THAT THE SIGN DOES NOT ENCRUCH ON TRAVELWAY.

REQUIREMENTS

- 1.) ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA. WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER AND AS INDICATED IN THE CONTRACT.
- 2.) ALL ADVANCE SIGNS ARE TO BE MOUNTED 0.6 m FROM THE EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB OR 1.8 - 3.6 m FROM THE EDGE OF AN ADJACENT TRAVEL LANE WHERE NO PAVED SHOULDER EXIST TO THE NEAREST EDGE OF THE SIGN. ALSO, THE ADVANCE SIGNS ARE TO BE MOUNTED 2.1 m FROM THE GROUND TO THE BOTTOM EDGE OF THE SIGN. SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF OF DOUBLEFACED GUARDRAIL, CONCRETE MEDIAN BARRIER, AND/OR BRIDGE PARAPET WALLS AND SHALL BE PROVIDED BY THE CONTRACTOR.
- 3.) ALL SIGNS, DRUMS, AND BARRICADES ARE TO BE REFLECTORIZED USING TYPE III SHEETING UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS.
- 4.) THE FIRST AND LAST TRAFFIC CONTROL DEVICE IN A TAPER SHALL BE SUPPLEMENTED WITH 18 cm AMBER TYPE "B" HIGH INTENSITY FLASHING LIGHTS. ALL SUBSEQUENT BARRICADES SHALL BE SUPPLEMENTED WITH 7 INCH AMBER TYPE "C" STEADY BURNING LIGHTS. ALL WARNING LIGHTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AS SPECIFIED IN PART V OF THE SCMUTCD, LATEST EDITION.
- 5.) SPACINGS INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED BECAUSE OF HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS.
- 6.) THE CONTRACTOR SHALL PERFORM HIS WORK IN SUCH A MANNER SO AS NOT TO ENCRUCH ON THE LANE ADJACENT TO THE CLOSED LANE. TRAFFIC CONTROL DEVICES SHALL BE PLACED AND ADJUSTED ACCORDINGLY DURING WORKING HOURS.
- 7.) IF WORK IS BEING DONE AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, THE CONTRACTOR WILL NOT BE ALLOWED TO BLOCK ONE LANE AT ONE LOCATION AND A DIFFERENT LANE AT THE OTHER OPERATION. WORK AT THE TWO LOCATIONS IS TO BE DONE IN THE SAME LANE UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DIRECTOR OF TRAFFIC ENGINEERING.
- 8.) IF WORK IS BEING DONE AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, THE TWO LOCATIONS ARE TO BE SEPARATED BY A MINIMUM DISTANCE OF 4 km FROM THE END OF ONE LANE CLOSURE TO THE BEGINNING OF THE TAPER AT THE OTHER LOCATION. A COMPLETE SET OF SIGNS WILL BE REQUIRED AT EACH LOCATION.
- 9.) IF THE TRAFFIC CONTROL IS NOT MAINTAINED ACCORDING TO THE SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR THE PLANS, THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT CONSTRUCTION OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATES.
- 10.) TYPE II BARRICADES SHALL HAVE A MINIMUM WIDTH OF 1.2 m.
- 11.) FLAT SHEET SIGNS ARE TO BE MOUNTED SUCH THAT THEY ARE STRAIGHT AND LEVEL AND SUCH THAT THE FACE OF THE SIGNS ARE PERPENDICULAR TO THE SURFACE OF ROADWAY.
- 12.) LANE CLOSURES SHALL BE RESTRICTED TO MAXIMUM DISTANCES OF 4 km UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DIRECTOR OF TRAFFIC ENGINEERING.
- 13.) UTILIZATION OF A CHANGEABLE MESSAGE SIGN SHALL BE BASED ON THE REQUIREMENTS SET FORTH BY THE SPECIAL PROVISIONS. WHEN REQUIRED, THE SIGN WILL BE INSTALLED AS SHOWN ON THIS TYPICAL UNLESS OTHERWISE SPECIFIED BY THE SPECIAL PROVISIONS. THE SIGN SHALL FLASH ALTERNATELY TO READ "RIGHT LANE CLOSED", "MAX SPEED 45 MPH" AT A RATE SO THAT MOTORIST CAN READ BOTH MESSAGES AT LEAST ONCE. THE CHANGEABLE MESSAGE SIGN SHALL MEET ALL REQUIREMENTS AS SPECIFIED BY THE ADDENDUM "CHANGEABLE MESSAGE SIGN" DATED APRIL 01, 1994.

PORTABLE TRUCK MOUNTED ATTENUATOR

- 1.) THE PORTABLE ATTENUATOR SHALL BE TRUCK MOUNTED. THE TRUCK SHALL HAVE A GROSS WEIGHT OF NO LESS THAN 6800 kg. (ACTUAL VEHICLE WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, ONLY DRY LOOSE SAND MAY BE UTILIZED AS A BALLAST.
- 2.) THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE LOCATED 30 m IN ADVANCE OF THE WORK AREA WHEN THE WORK AREA IS WITHIN THE THROUGH TRAVEL LANES.
- 3.) THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS TYPICAL DRAWING AND THE ADDENDUM "TRUCK MOUNTED ATTENUATORS" DATED MARCH 16, 1994.
- 4.) THE TRUCK MOUNTED ATTENUATOR AND ADVANCE WARNING ARROW PANEL MAY BE REPLACED WITH TRAILER MOUNTED ADVANCE WARNING ARROW PANEL WHEN THIS LANE CLOSURE IS UTILIZED FOR ASPHALT CONCRETE PLACEMENT OPERATIONS. REPLACEMENT WITH A TRAILER MOUNTED ADVANCE WARNING ARROW PANEL SHALL REQUIRE APPROVAL FROM THE ENGINEER.

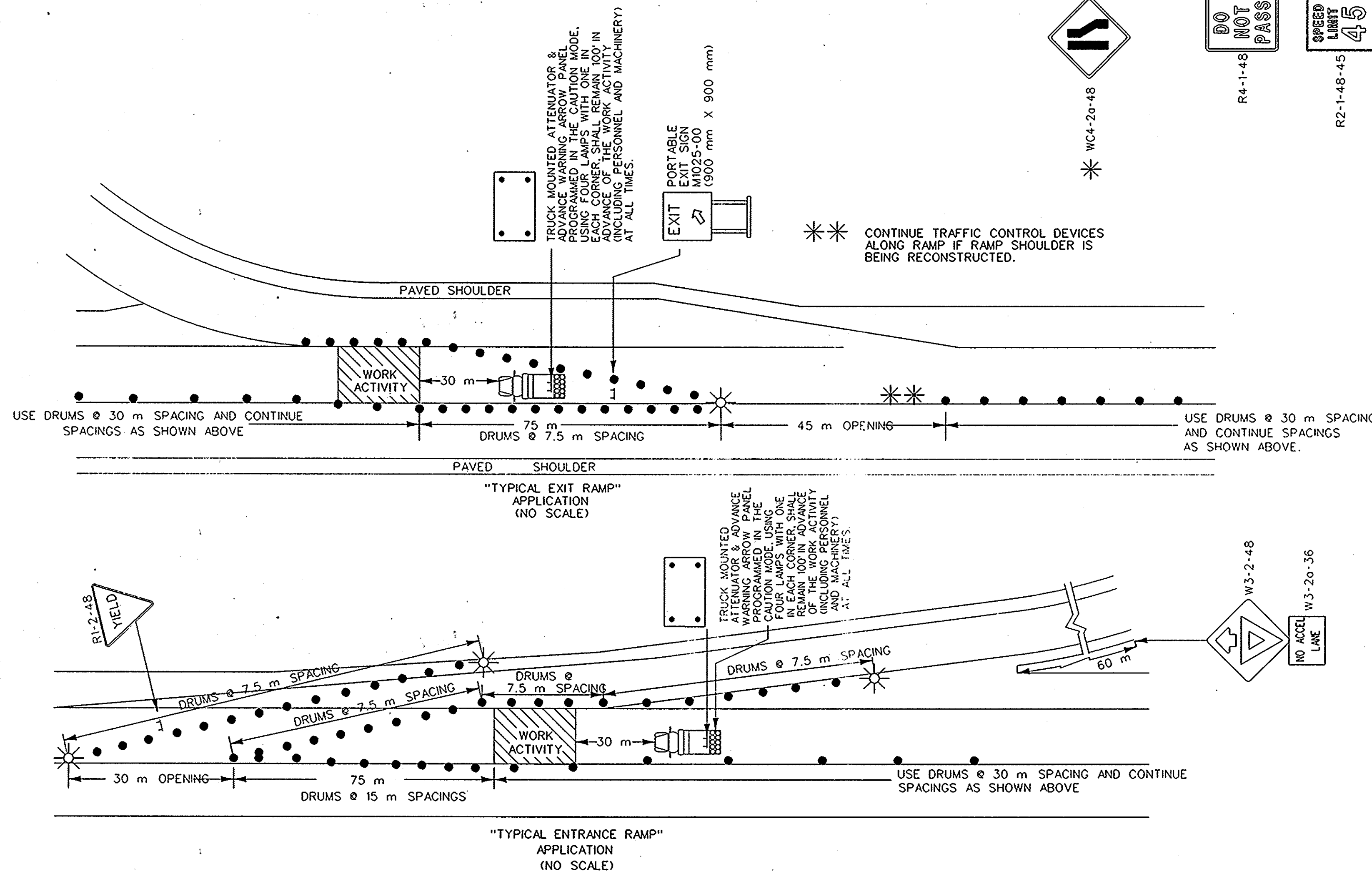
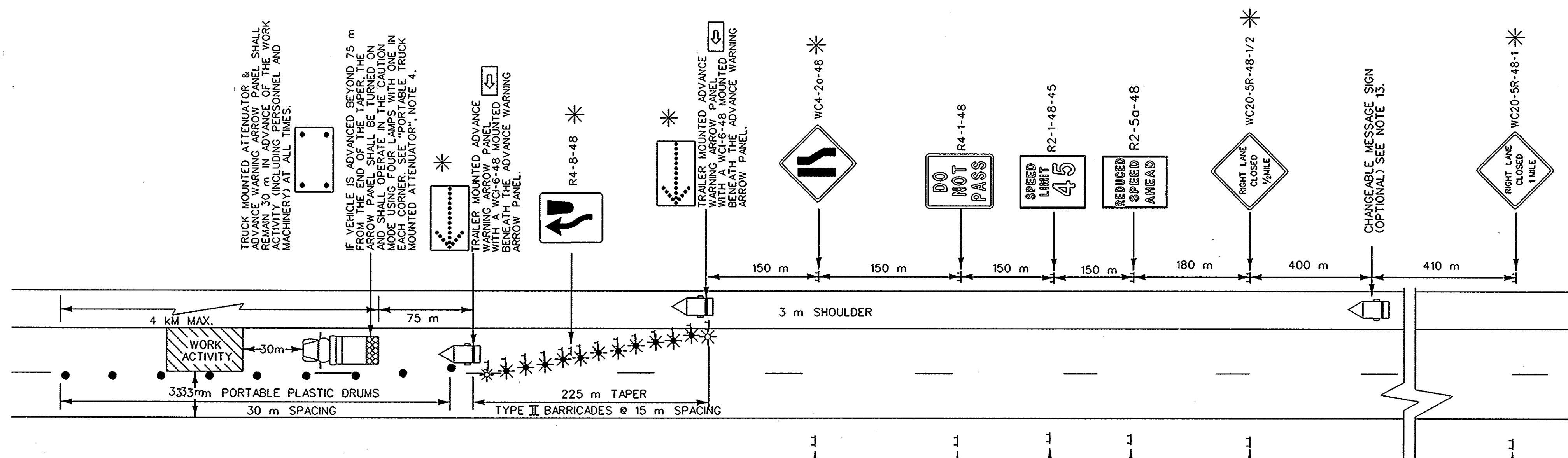
ADVANCE WARNING ARROW PANEL

THE ADVANCE WARNING ARROW PANEL SHALL BE 120 cm X 240 cm WITH A MINIMUM LEGIBILITY DISTANCE OF 1.5 km. THE ADVANCE WARNING ARROW PANEL PLACEMENT MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. THESE ADVANCE WARNING ARROW PANELS SHALL MEET ALL REQUIREMENTS AS SPECIFIED BY THE ADDENDUM "ADVANCE WARNING ARROW PANELS" DATED MARCH 15, 1994.

SOUTH CAROLINA DEPARTMENT OF
HIGHWAYS & PUBLIC TRANSPORTATION

DRAWING NO.:

APPROVED BY:	DESIGNED BY:
DIRECTOR OF TRAFFIC ENGINEERING	DATE
	INT. DATE



REVISIONS		
DATE	REV. BY	DESCRIPTION

TOWER DIRECTORY	CADD FILENAME

FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	SPARTANBURG	42.389A	IM-0852(126)	I-85	TC-4	

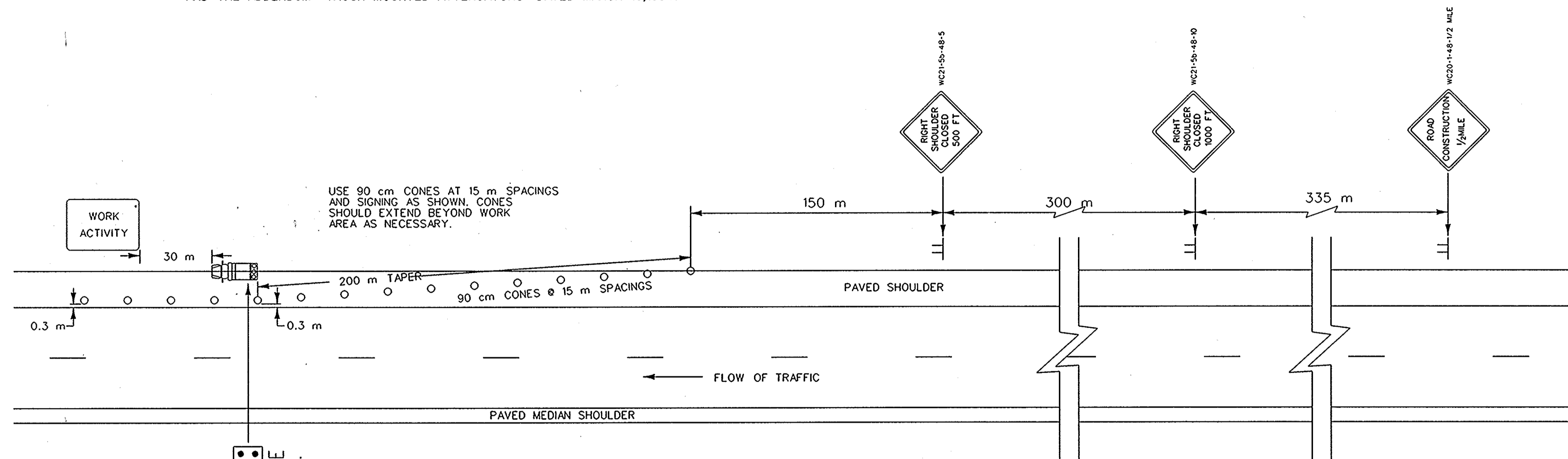
PORTABLE TRUCK MOUNTED ATTENUATOR

- 1.) THE PORTABLE ATTENUATOR SHALL BE TRUCK MOUNTED. THE TRUCK SHALL HAVE A GROSS WEIGHT OF NO LESS THAN 6800 kg. (ACTUAL VEHICLE WEIGHT). IF THE ADDITION OF SUPPLEMENTAL WEIGHT TO THE VEHICLE AS BALLAST IS NECESSARY, ONLY DRY LOOSE SAND MAY BE UTILIZED AS A BALLAST.
- 2.) THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE LOCATED 30 m IN ADVANCE OF THE WORK AREA WHEN THE WORK AREA IS WITHIN THE THROUGH TRAVEL LANES.
- 3.) THE PORTABLE TRUCK MOUNTED ATTENUATOR SHALL BE PROVIDED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS TYPICAL DRAWING AND THE ADDENDUM "TRUCK MOUNTED ATTENUATORS" DATED MARCH 16, 1994.

ADVANCE WARNING ARROW PANEL

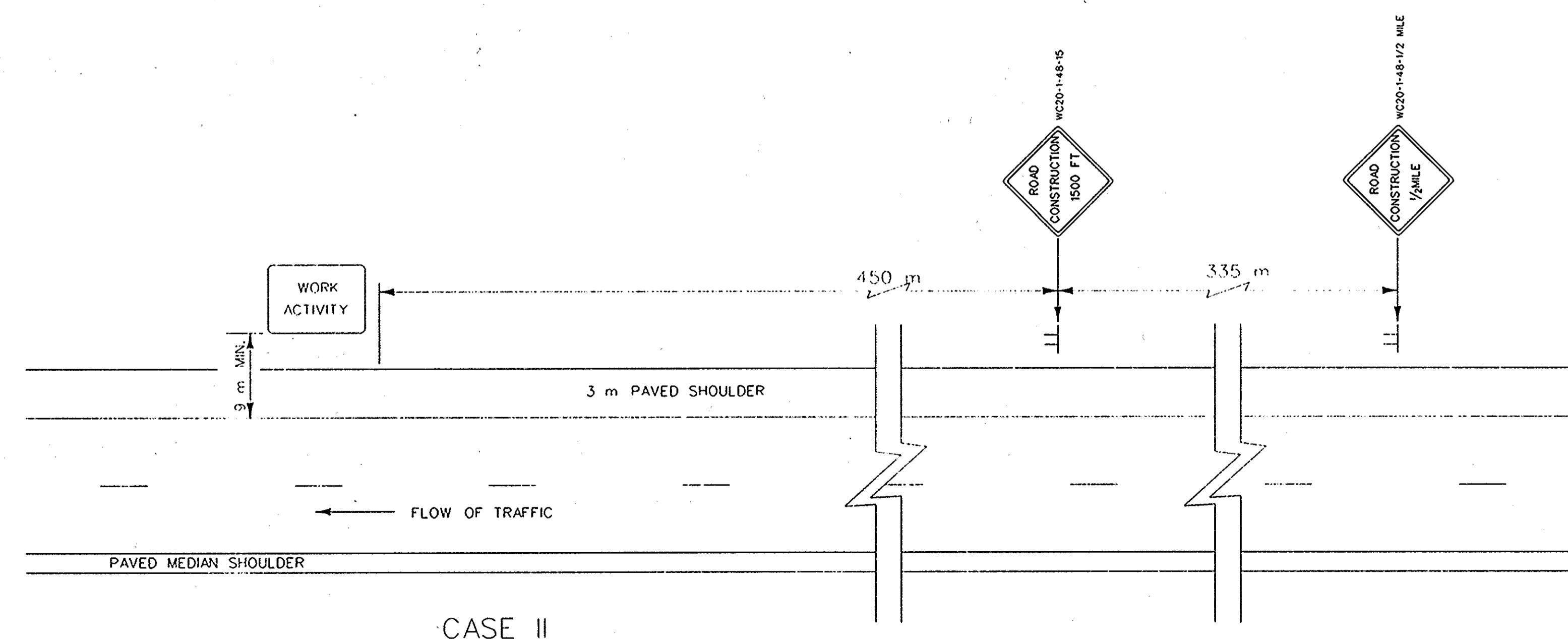
THE ADVANCE WARNING ARROW PANEL SHALL BE 120 cm X 240 cm WITH A MINIMUM LEGIBILITY DISTANCE OF 1.5 km. THE ADVANCE WARNING ARROW PANEL PLACEMENT MAY REQUIRE ADJUSTMENTS DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS. THE PANEL FACE SHALL BE NONREFLECTIVE BLACK. THESE ADVANCE WARNING ARROW PANELS SHALL MEET ALL REQUIREMENTS AS SPECIFIED BY THE ADDENDUM "ADVANCE WARNING ARROW PANELS" DATED MARCH 15, 1994.

TYPICAL XIII TRAFFIC CONTROL
(NO SCALE)
SHOULDER CLOSURE
INTERSTATE STANDARDS



CASE I

TRUCK MOUNTED ATTENUATOR & ADVANCE WARNING ARROW PANEL SHALL REMAIN 30 m IN ADVANCE OF THE WORK ACTIVITY (INCLUDING PERSONNEL AND MACHINERY). THE ADVANCE WARNING ARROW PANEL, MOUNTED NO LESS THAN 2 m ABOVE THE ROADWAY, SHALL BE PROGRAMMED IN THE CAUTION MODE USING FOUR LAMPS WITH ONE IN EACH CORNER.



CASE II

REQUIREMENTS

1. ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA AS SHOWN. WHEN WORK PROGRESSES TO A NEW LOCATION, ALL ADVANCE SIGNS ARE TO BE REPOSITIONED.
2. ALL ADVANCE SIGNS ARE TO BE MOUNTED 0.6 m FROM THE EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB OR 1.8 - 3.6 m FROM THE EDGE OF AN ADJACENT TRAVEL LANE WHERE NO PAVED SHOULDER EXISTS TO THE NEAREST EDGE OF THE SIGN. ALSO, THE ADVANCE SIGNS ARE TO BE MOUNTED 2.1 m FROM THE GROUND TO THE BOTTOM EDGE OF THE SIGN. SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF DOUBLEFACED GUARDRAIL, CONCRETE MEDIAN BARRIER, AND/OR BRIDGE PARAPET WALLS AND SHALL BE PROVIDED BY THE CONTRACTOR.
3. ALL SIGNS ARE TO BE REFLECTORIZED USING TYPE III SHEETING UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS.
4. IF THE TRAFFIC CONTROL IS NOT MAINTAINED ACCORDING TO THE SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR THE PLANS, THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT CONSTRUCTION OPERATIONS AND/OR WITHOLD THE MONTHLY ESTIMATES.
5. SPACINGS SHOWN ARE FOR NORMAL CONDITIONS, ADJUSTMENTS MAY BE NECESSARY DUE TO HORIZONTAL AND/OR VERTICAL ALIGNMENT OR OTHER SIGHT DISTANCE RESTRICTIONS.
6. NO WORK IS TO BE PERFORMED DURING THE HOURS OF DARKNESS.
7. IF WORK IS BEING DONE AT TWO DIFFERENT LOCATIONS AT THE SAME TIME, THE TWO LOCATIONS ARE TO BE SEPARATED BY A MINIMUM DISTANCE OF 1.5 km FROM THE END OF ONE SHOULDER CLOSURE TO THE BEGINNING OF THE TAPER AT THE OTHER LOCATION. A COMPLETE SET OF SIGNS WILL BE REQUIRED AT EACH LOCATION.
8. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, THE SPECIFICATIONS, PART V OF THE SCMTCD (LATEST EDITION), THE ABOVE REQUIREMENTS AND AS FOLLOWS, IF:
 - CASE I: A PORTION OF THE SHOULDER HAS TO BE OCCUPIED IN ORDER TO ACCOMPLISH WORK BEING PERFORMED-SIGNING AND CONE PLACEMENT SHALL BE INSTALLED AND MAINTAINED AS ILLUSTRATED.
 - CASE II: WORK BEING PERFORMED CAN BE ACCOMPLISHED WITHOUT ENCROACHING WITHIN 9 m OF THE EDGE OF THE TRAVEL LANE ONLY WC20-1-48-15 AND WC20-1-48-1/2 MILE SIGNS WILL BE NEEDED IN ADVANCE OF THE WORK AREA.
10. THIS TYPICAL APPLIES ONLY IF WORK CAN BE ACCOMPLISHED WITHOUT ENCROACHING ONTO THE TRAVELWAY.

REVISIONS		
DATE	REV. BY	DESCRIPTION

SOUTH CAROLINA DEPARTMENT OF
HIGHWAYS & PUBLIC TRANSPORTATION

DRAWING NO.:

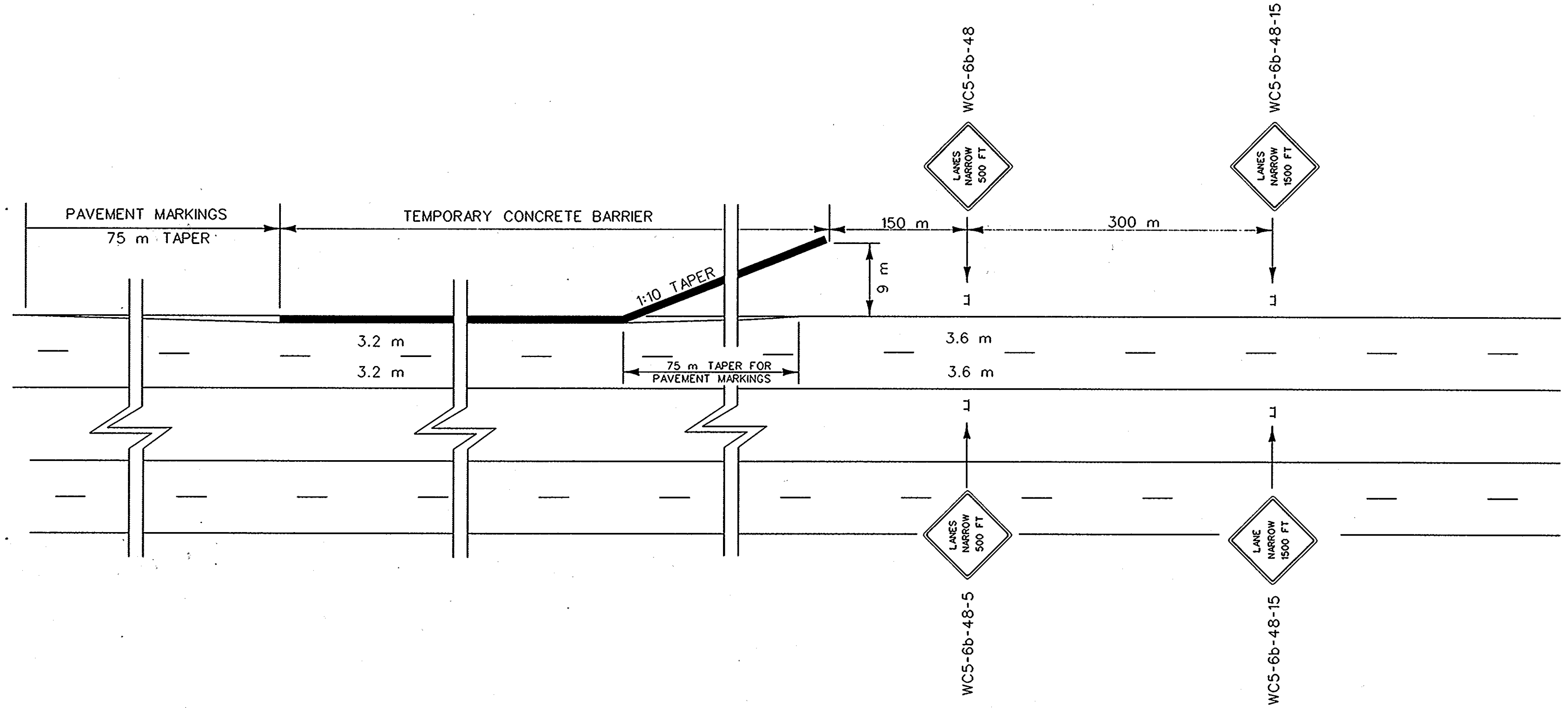
APPROVED BY: _____ DESIGNED BY: _____

DIRECTOR OF TRAFFIC ENGINEERING _____ DATE _____ INT. DATE _____

TYPICAL XVIII TRAFFIC CONTROL

(NO SCALE)

TEMPORARY CONCRETE BARRIER IN SHOULDER AREAS



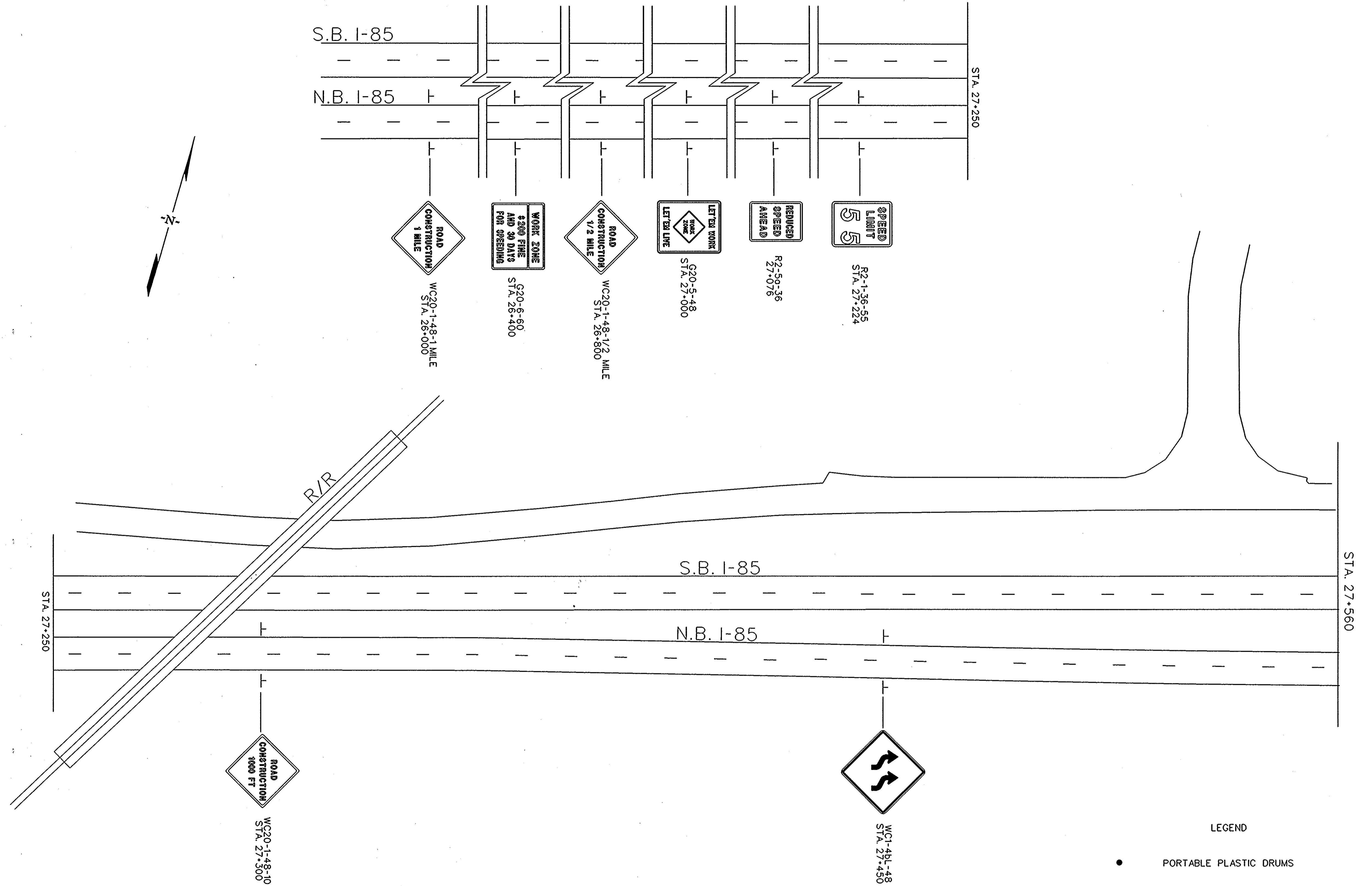
REQUIREMENTS

- 1.) ALL SIGN LOCATIONS ARE TO BE MEASURED FROM THE WORK AREA WORK LIMITS FOR THE PROJECT WILL BE DETERMINED BY THE ENGINEER.
- 2.) ALL ADVANCE SIGNS ARE TO BE MOUNTED 0.6 m FROM THE EDGE OF A PAVED SHOULDER OR THE FACE OF A CURB OR 1.8 - 3.6 m FROM THE EDGE OF AN ADJACENT TRAVEL LANE WHERE NO PAVED SHOULDER EXISTS TO THE NEAREST EDGE OF THE SIGN. ALSO, THE ADVANCE SIGNS ARE TO BE MOUNTED 2.1 m FROM THE GROUND TO THE BOTTOM EDGE OF THE SIGN. SPECIAL SIGN MOUNTING ASSEMBLIES MAY BE NECESSARY IN AREAS OF DOUBLEFACED GUARDRAIL, CONCRETE MEDIAN BARRIER, AND/OR BRIDGE PARAPET WALLS AND SHALL BE PROVIDED BY THE CONTRACTOR.
- 3.) ALL SIGNS ARE TO BE REFLECTORIZED USING TYPE III SHEETING UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS.
- 4.) ALL WARNING LIGHTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS AS SPECIFIED IN PART V OF THE SCMUTCD, LATEST EDITION. THE FIRST AND LAST WARNING LIGHT IN THE TAPER OF THE TEMPORARY CONCRETE BARRIER SHALL BE 18 cm AMBER TYPE "B" HIGH INTENSITY FLASHING LIGHTS. ALL WARNING LIGHTS IN THE TAPER SHALL BE TYPE "C" STEADY BURNING WARNING LIGHTS DURING HOURS OF DARKNESS.
- 5.) SPACINGS INDICATED ARE FOR NORMAL CONDITIONS; ADJUSTMENTS MAY BE REQUIRED BECAUSE OF HORIZONTAL AND/OR VERTICAL ALIGNMENT OF OTHER SIGHT DISTANCE RESTRICTIONS.
- 6.) IF THE TRAFFIC CONTROL IS NOT MAINTAINED ACCORDING TO THE SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR THE PLANS, THE DEPARTMENT RESERVES THE RIGHT TO RESTRICT CONSTRUCTION OPERATIONS AND/OR WITHHOLD THE MONTHLY ESTIMATES.
- 7.) FLAT SHEET SIGNS ARE TO BE MOUNTED SUCH THAT THEY ARE STRAIGHT AND LEVEL AND SUCH THAT THE FACE OF THE SIGNS ARE PERPENDICULAR TO THE SURFACE OF THE ROADWAY.
- 8.) TEMPORARY CONCRETE MEDIAN BARRIER WILL BE CONNECTED TO PERMANENT BARRIER WHEN POSSIBLE BY USING THREE BEAM GUARDRAIL OR BY AN APPROVED METHOD. WHEN THE TEMPORARY CONCRETE MEDIAN BARRIER IS NOT CONNECTED TO PERMANENT BARRIER, THE END OF THE TEMPORARY BARRIER SHALL BE PROTECTED WITH TERMINAL IMPACT ATTENUATOR (G.R.E.A.T. cz) OR BY AN APPROVED METHOD.
- 9.) EACH TERMINAL IMPACT ATTENUATOR (G.R.E.A.T. cz) SHALL BE MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, INC., OF CHICAGO ILL., OR EQUAL, AND SHALL BE CAPABLE OF STOPPING VEHICLES THAT WEIGH 815 kg TO 2040 kg.
- 10.) EACH TERMINAL IMPACT ATTENUATOR (G.R.E.A.T. cz) SHALL BE A TEMPORARY 6 BAY (6.3 m) UNIT AND SHALL MEET ALL REQUIREMENTS AS SPECIFIED BY THE ADDENDUM AND ALL SUPPLEMENTAL SPECIFICATIONS.
- 11.) BEFORE EXISTING GUARDRAIL IS REMOVED FROM BRIDGE APPROACHES AND/OR BRIDGE PIERS WHEN NECESSARY, TEMPORARY CONCRETE BARRIER SHALL BE INSTALLED AS ILLUSTRATED ON THE "STANDARD FOR TEMPORARY CONCRETE BARRIER--DRAWING NO. 805-14-" OR THE "STANDARD FOR TEMPORARY CONCRETE BARRIER--DRAWING NO. 805-14-A" OF THE "STANDARD DRAWINGS FOR HIGHWAY CONSTRUCTION".
- 12.) LANE LINES ARE TO BE REMOVED COMPLETELY THROUGHOUT THE CONSTRUCTION AREA WHERE LANE WIDTHS REQUIRE ADJUSTMENTS. THE ROADWAY SHALL BE MARKED IN ACCORDANCE WITH THE PLANS, THE SPECIAL PROVISIONS, AND/OR THE ENGINEER.
- 13.) THE EXISTING EDGE LINE SHALL BE REPLACED WITH A TEMPORARY EDGE LINE. THE TEMPORARY EDGE LINE SHALL BE APPLIED NO CLOSER THAN 15 cm ADJACENT TO THE TEMPORARY CONCRETE BARRIER THROUGHOUT THE TANGENT SECTION OF BARRIER. EACH END OF THE TEMPORARY EDGE LINE SHALL BE TIED TO THE EXISTING EDGE LINE BY TAPERS 75 m LONG.
- 14.) RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED AS NECESSARY AND NEW MARKERS PLACED AS DIRECTED EACH TIME THE LANE LINES ARE CHANGED.
- 15.) THE LENGTH OF THE TAPER FOR TEMPORARY CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH SPEEDS AS SPECIFIED ON THE "STANDARD FOR TEMPORARY CONCRETE BARRIER--DRAWING NO. 805-14-" OR THE "STANDARD FOR TEMPORARY CONCRETE BARRIER--DRAWING NO. 805-14-A" OF THE "STANDARD DRAWINGS FOR HIGHWAY CONSTRUCTION".
- 16.) TEMPORARY CONCRETE BARRIER PLACEMENT SHALL BE RESTRICTED TO MAXIMUM DISTANCE OF 4 km UNLESS OTHERWISE DIRECTED BY THE SPECIAL PROVISIONS AND/OR THE DIRECTOR OF TRAFFIC ENGINEERING.

SOUTH CAROLINA DEPARTMENT OF HIGHWAYS & PUBLIC TRANSPORTATION			
DRAWING NO.:			
APPROVED BY:		DESIGNED BY:	
DIRECTOR OF TRAFFIC ENGINEERING		INT.	
DATE		DATE	

FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	SC	SPARTANBURG	42.389A	IM-0852(126)	I-85	TC-6	

TRAFFIC CONTROL

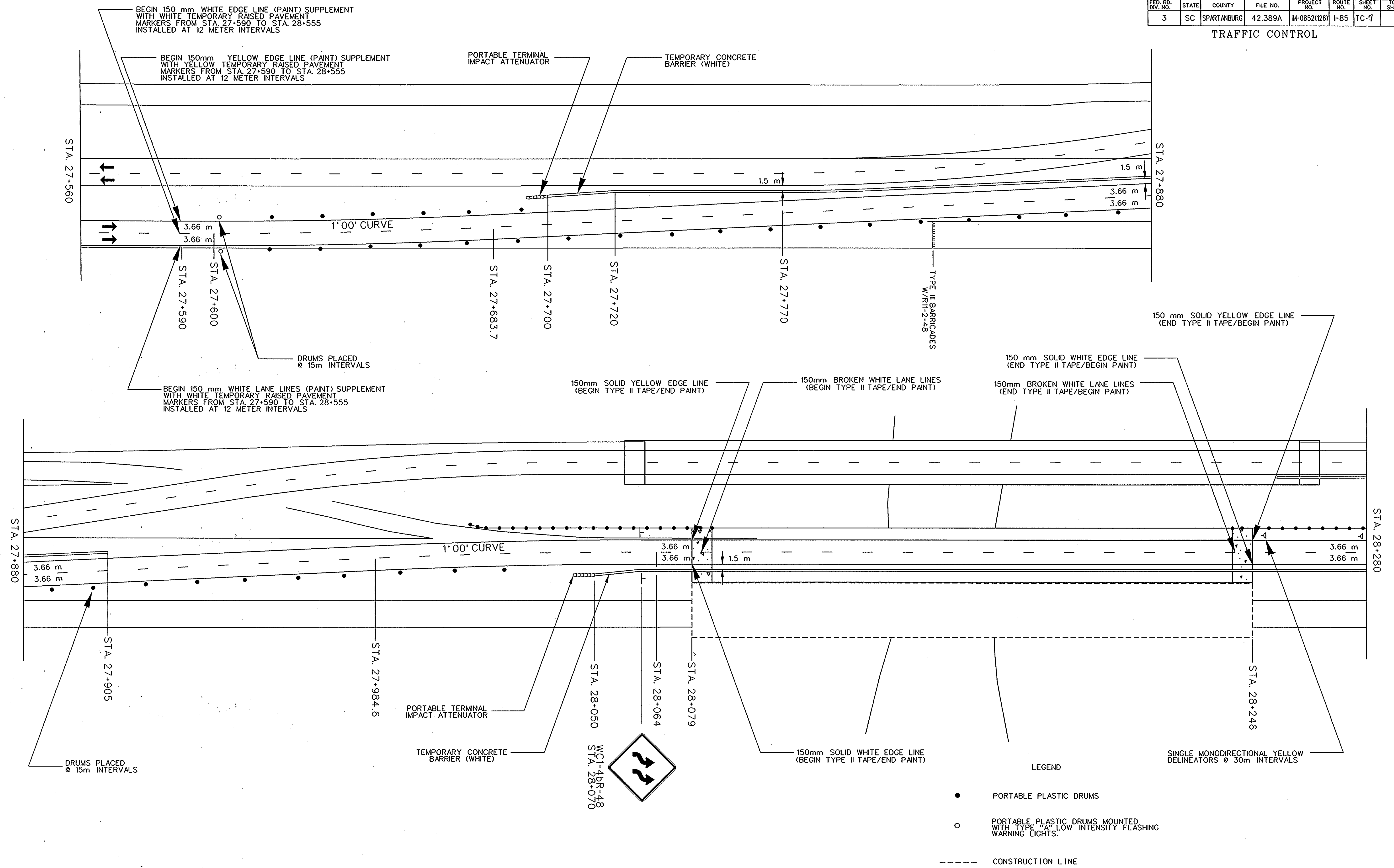


LEGEND

- PORTABLE PLASTIC DRUMS
- PORTABLE PLASTIC DRUMS MOUNTED WITH TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS.
- CONSTRUCTION LINE

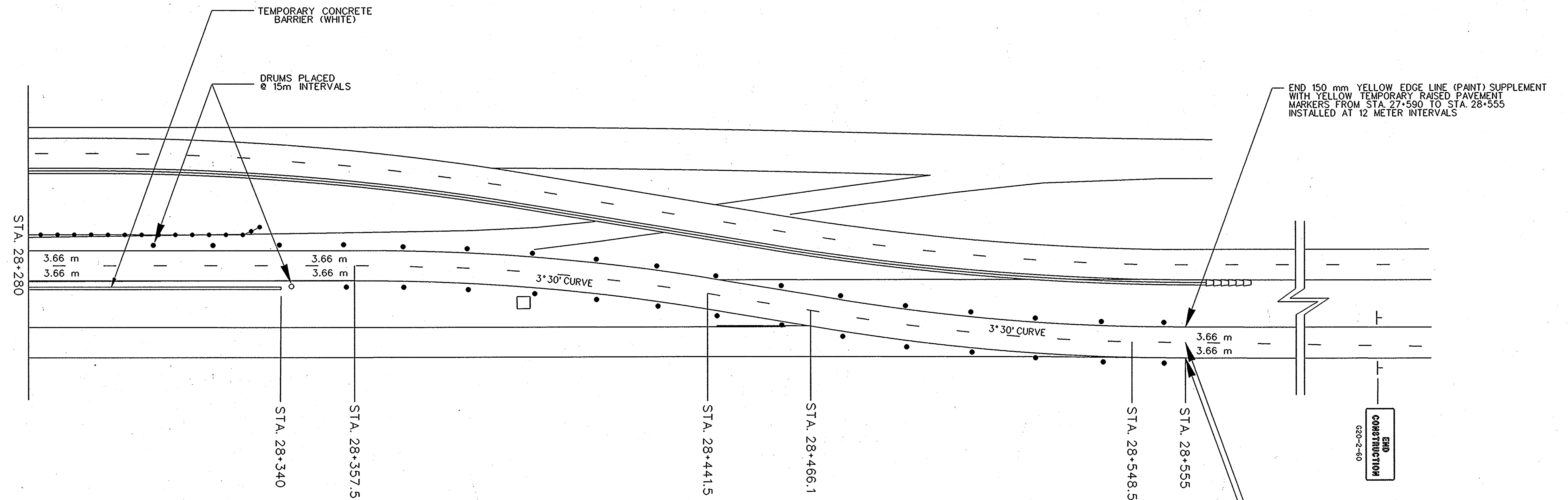
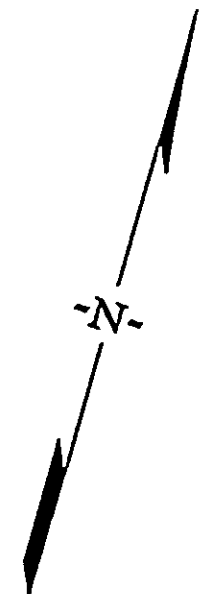
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3	SC	SPARTANBURG	42.389A	IM-0852(126)	I-85	TC-7	

TRAFFIC CONTROL



FED. RD. DIV. NO.	STATE	COUNTY	FILE NO.	PROJECT NO.	ROUTE NO.	SHEET NO.	TOTAL SHEETS
3	SC	SPARTANBURG	42.389A	M-0852(126)	I-85	TC-8	

TRAFFIC CONTROL



END 150 mm WHITE EDGE LINE (PAINT) SUPPLEMENT WITH WHITE TEMPORARY RAISED PAVEMENT MARKERS FROM STA. 27+590 TO STA. 28+555 INSTALLED AT 12 METER INTERVALS

END 150 mm WHITE LANE LINES (PAINT) SUPPLEMENT WITH WHITE TEMPORARY RAISED PAVEMENT MARKERS FROM STA. 27+590 TO STA. 28+555 INSTALLED AT 12 METER INTERVALS

LEGEND

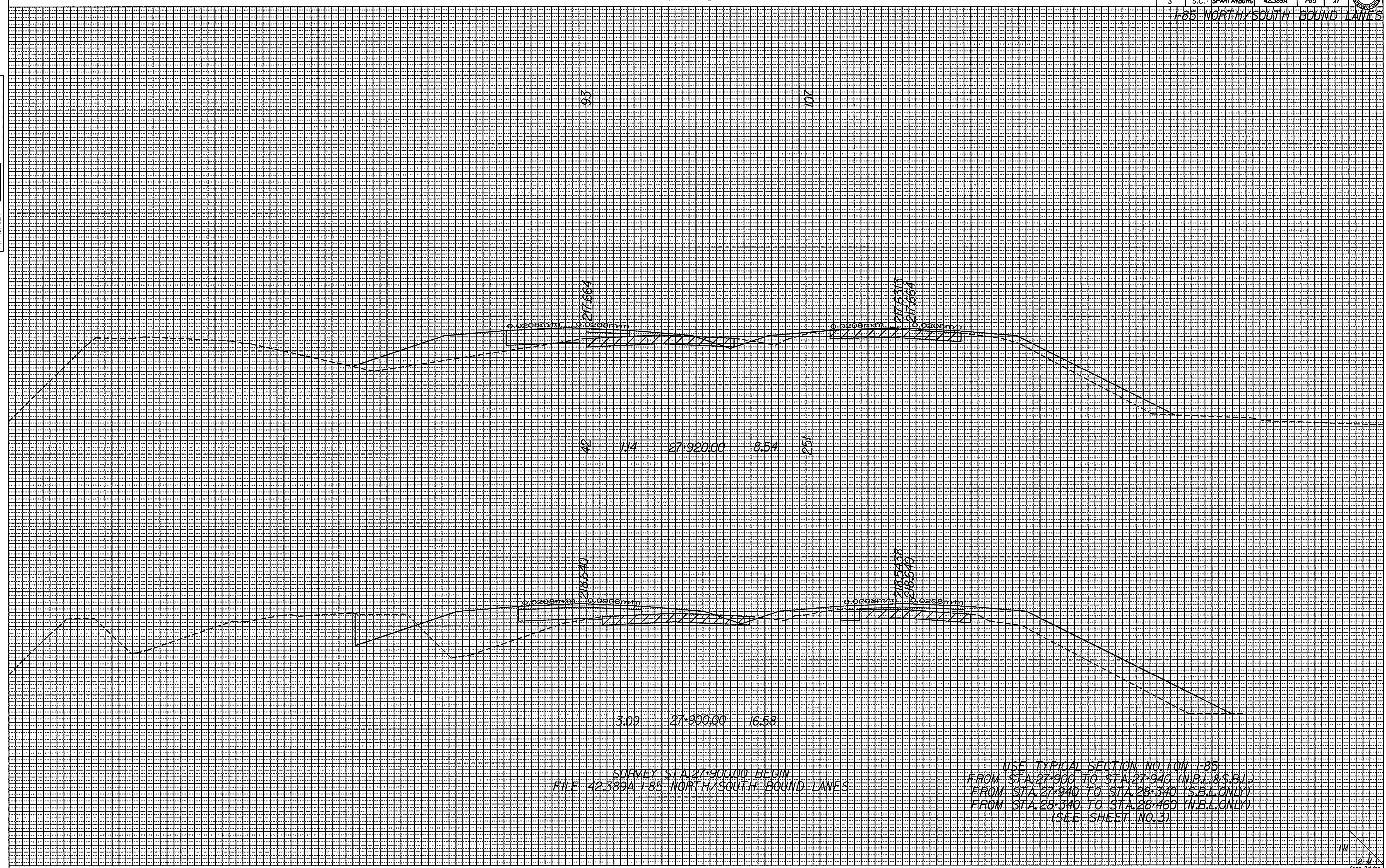
- PORTABLE PLASTIC DRUMS
- PORTABLE PLASTIC DRUMS MOUNTED WITH TYPE "A" LOW INTENSITY FLASHING WARNING LIGHTS.
- CONSTRUCTION LINE

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	F85	XI



I-85 NORTH/SOUTH BOUND LANES

DIRECTORY: MANSERV, 17735 / 185EVD01
 SQUAD NUMBER: 3
 XS BY NAME: M.C.
 PIN NUMBER: 1735
 DATE: 08-27-98



SURVEY STA. 27+900.00 BEGIN
 FILE 42389A I-85 NORTH/SOUTH BOUND LANES

USE TYPICAL SECTION NO. 104 I-85
 FROM STA. 27+900 TO STA. 27+940 (N.B.L. & S.F.L.)
 FROM STA. 27+940 TO STA. 28+340 (S.B.L. ONLY)
 FROM STA. 28+340 TO STA. 28+460 (N.B.L. ONLY)
 (SEE SHEET NO. 3)

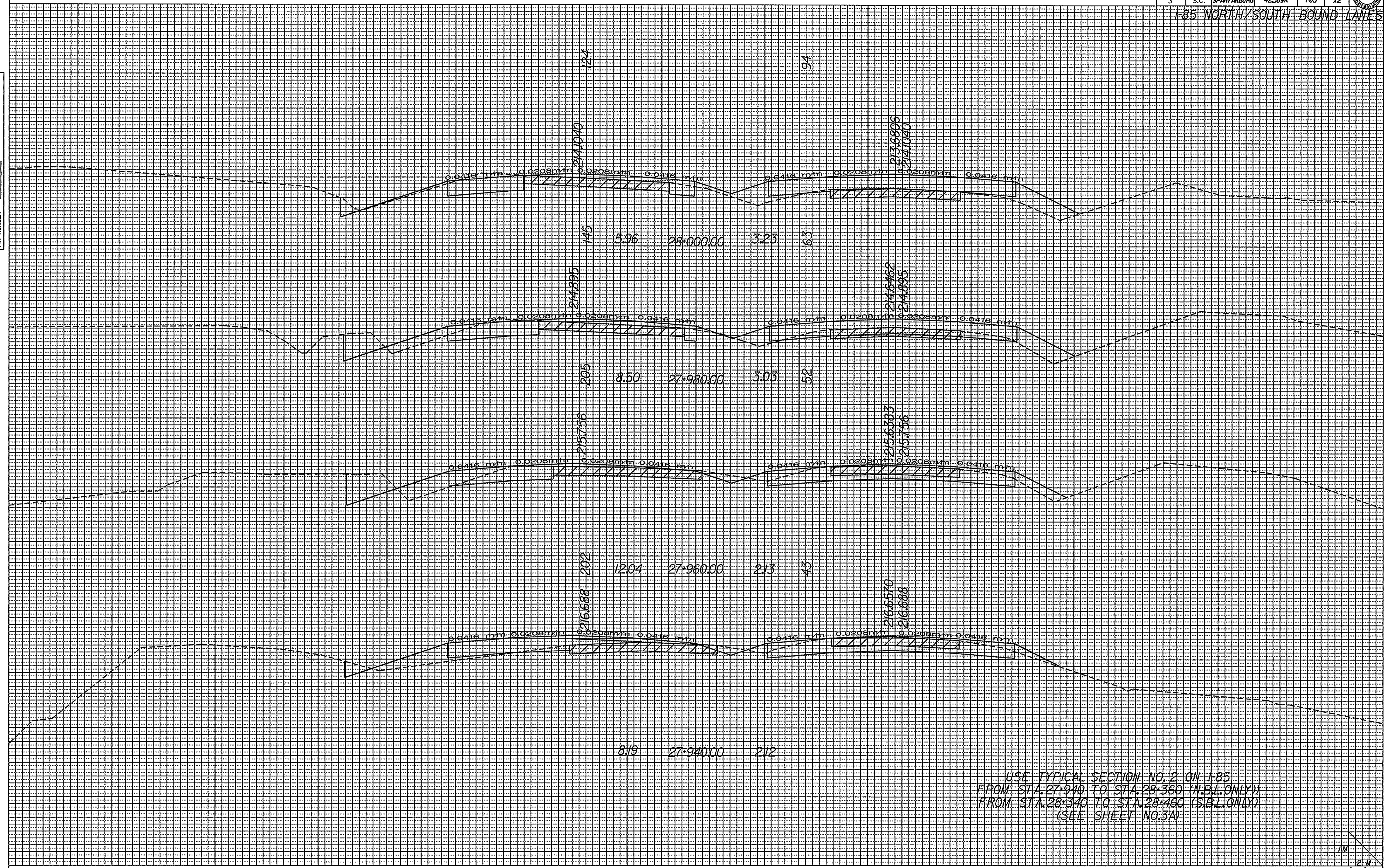
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 16-JAN-1997



FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X2

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY MANAGER: 17735 / 0871081
 SQUAD NUMBER: 388
 XS BY NAME: M.C.
 PIN NUMBER: 17735
 DATE: 08-27-96



041490
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 17-DEC-1996

USE TYPICAL SECTION NO. 2 ON I-85
 FROM STA. 27+940 TO STA. 28+360 (N.B.L. ONLY)
 FROM STA. 28+340 TO STA. 28+460 (S.B.L. ONLY)
 (SEE SHEET NO. 3A)

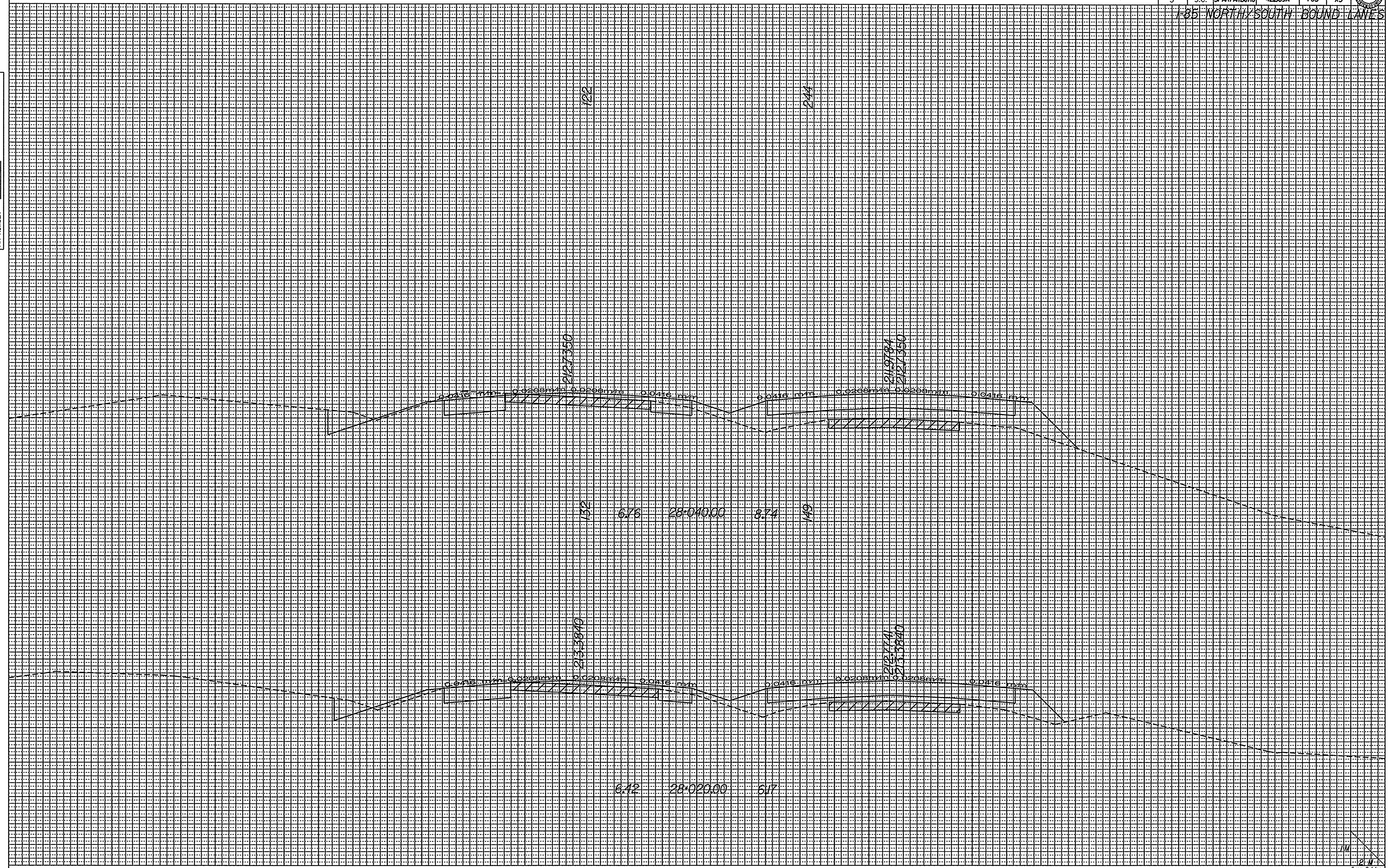




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3	S.C.	SPARTANBURG	42389A	185	X3

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY
MANSEV. 1735 / 087081
SQUAD NUMBER 383
SQUAD BY NAME M.C.
PIN NUMBER 17735
DATE 08-2-96



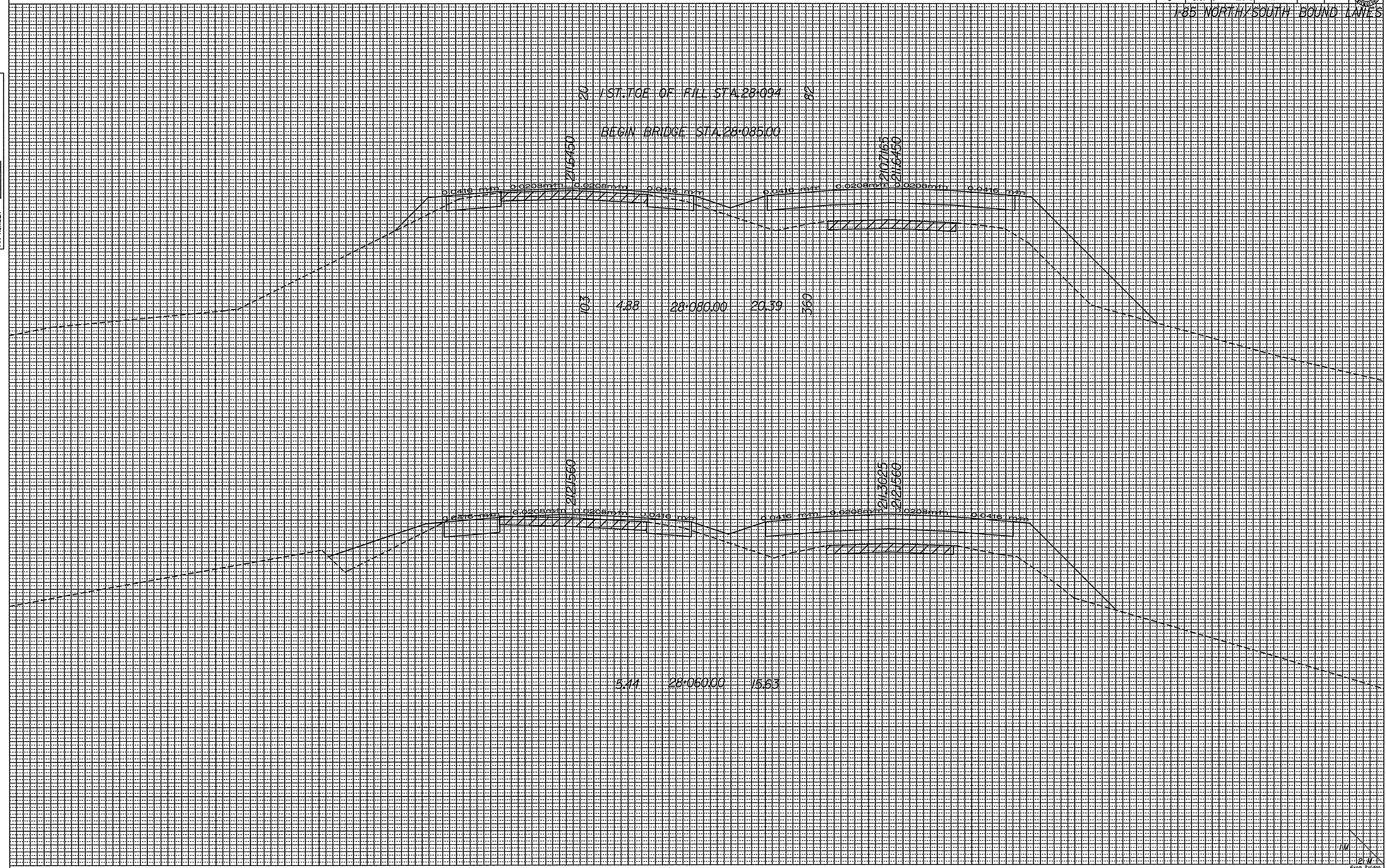
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X4

DIRECTORY NUMBER 17735 / 087108
 SQUAD NUMBER 388 / 087108
 DESIGNED BY M.C. / M.C.
 CHECKED BY M.C. / M.C.
 DATE 08-21-96
 PIN NUMBER 17735



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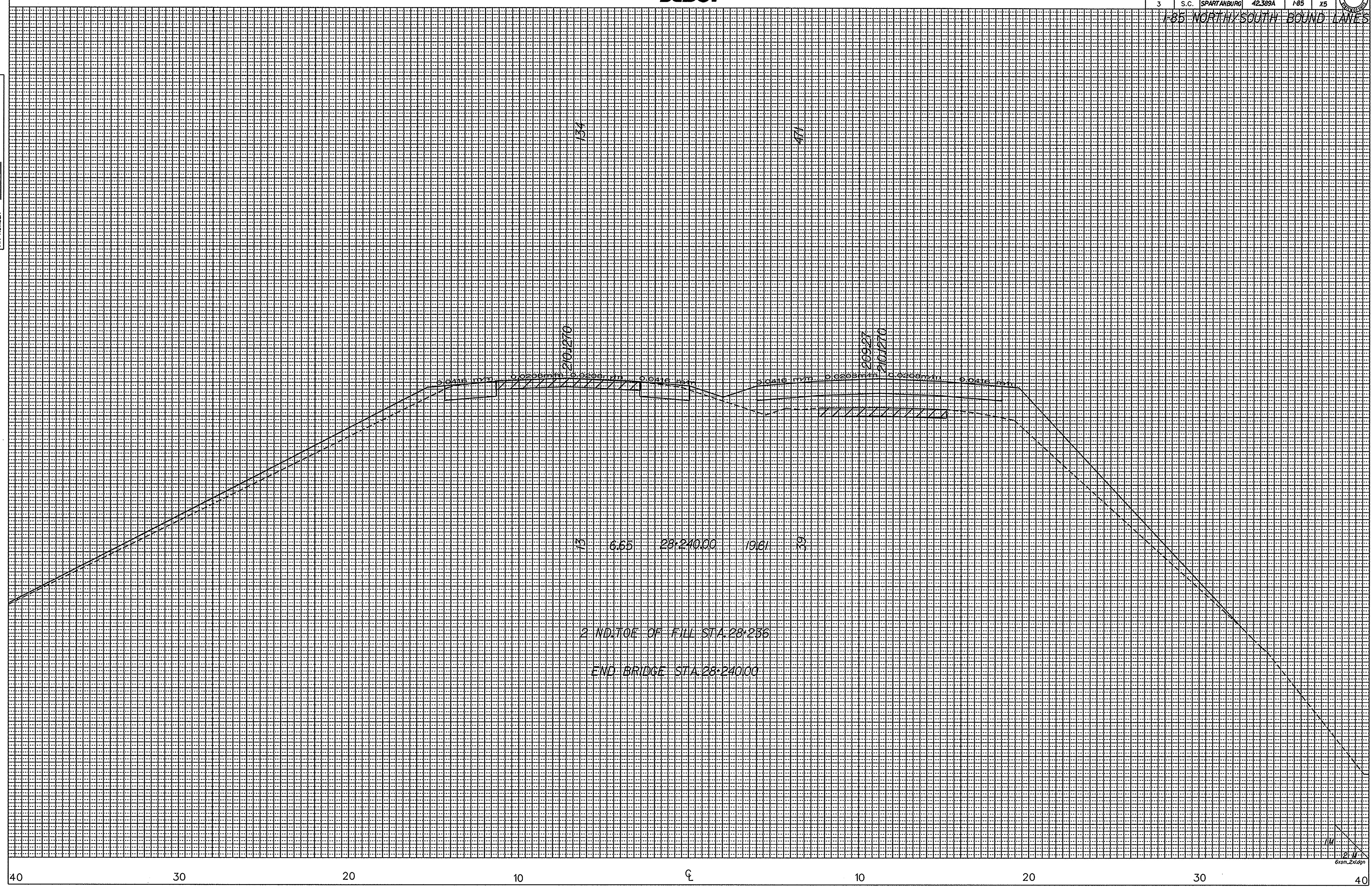
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X5

I-85 NORTH-SOUTH BOUND LANES

DIRECTORY: MANSERV SB 17735 / 08/21/04
 SQUAD NUMBER: 3059 SR NO. 17735 DATE 08/21/04
 XS BY NAME: MJC PIN NUMBER: 17735



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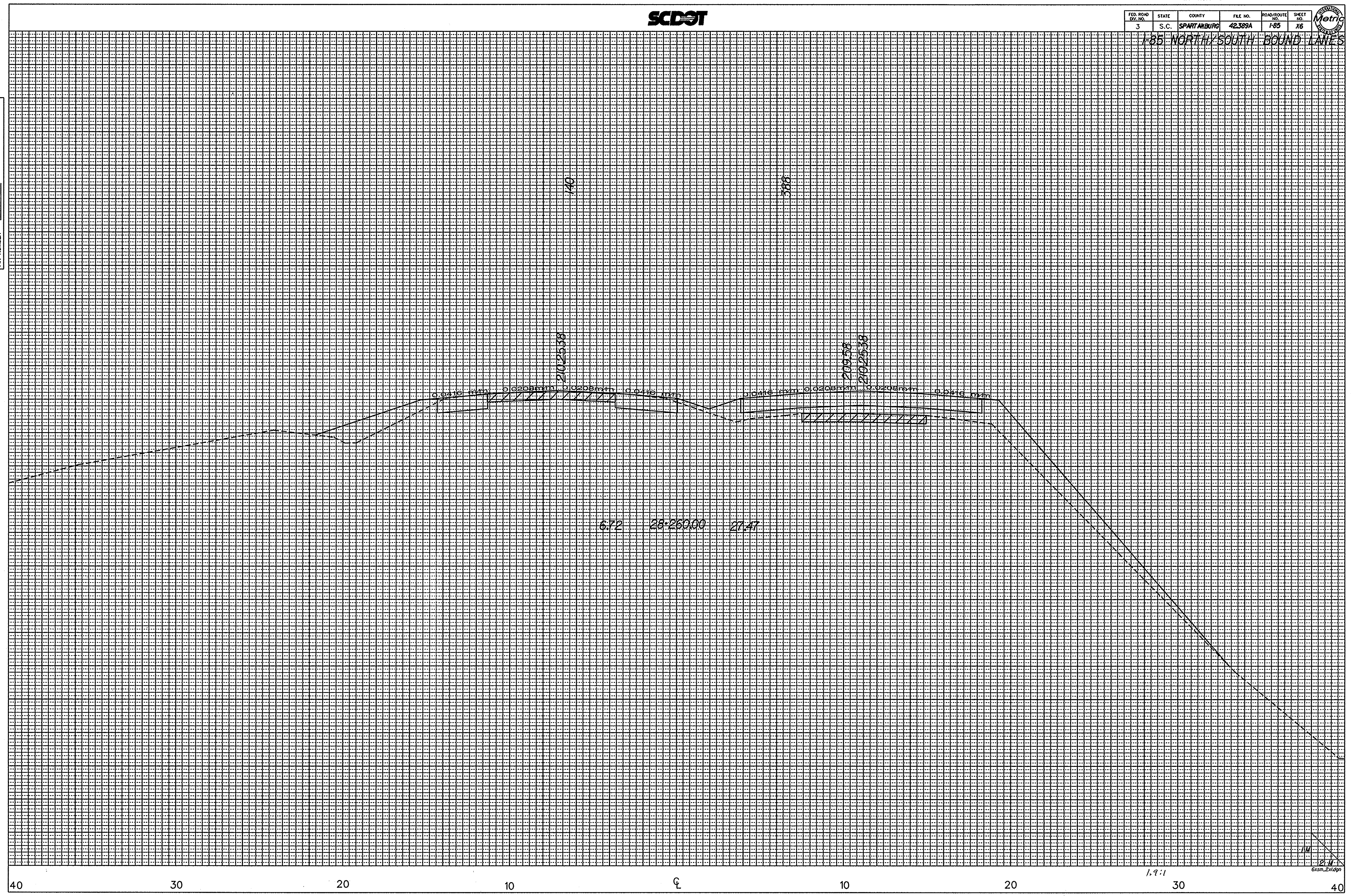
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X6

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY
 DIVISION 1735 / 087108
 SQUAD NUMBER 305
 SUB NO. 1735
 DATE 08-2-99
 NAME M.C.
 PIN NUMBER 1735



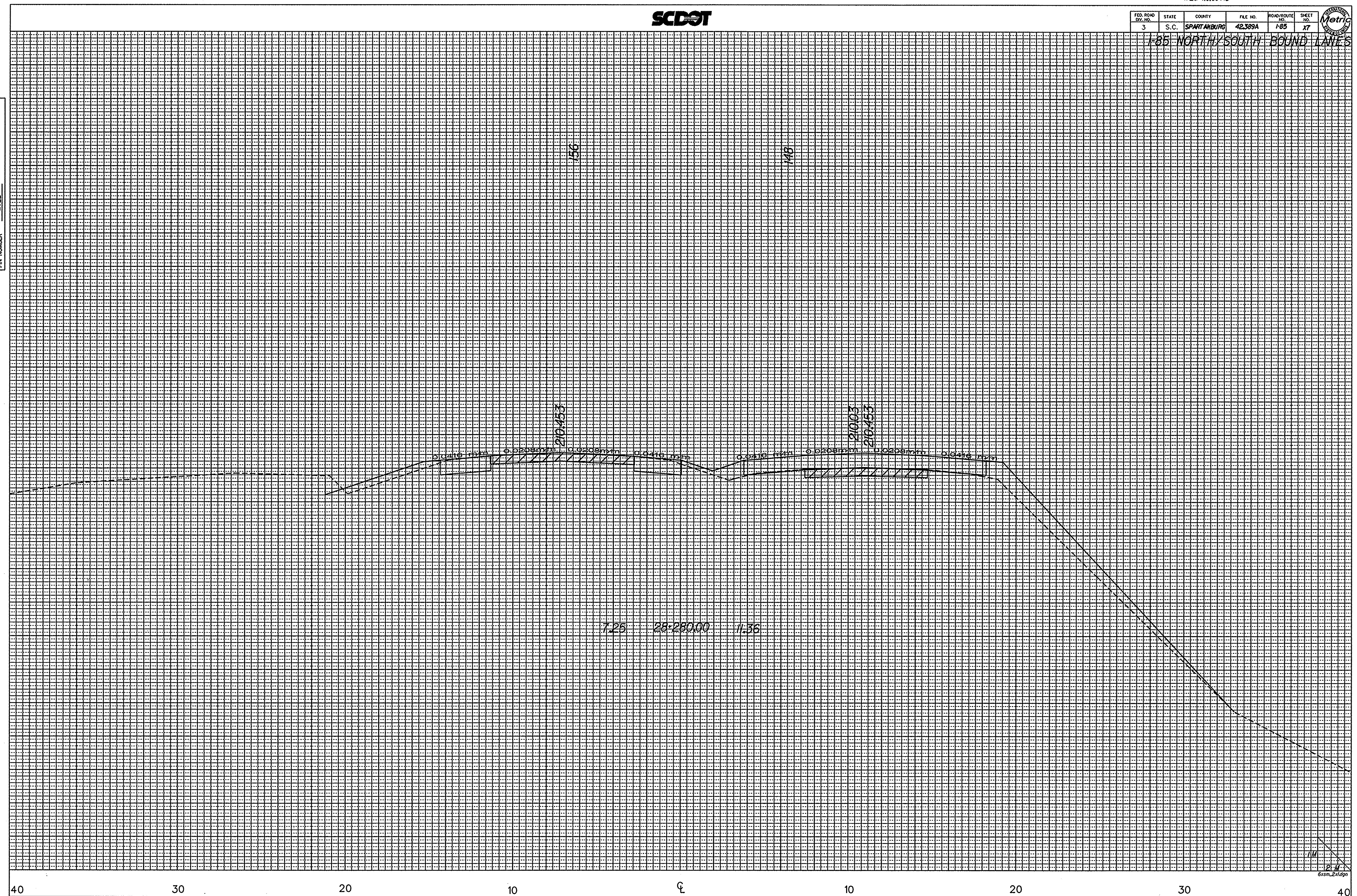
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42,389A	I-85	X7

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY
 SHEET NO. 17735 / 80445
 DRAWN BY: MJC
 CHECKED BY: MJC
 DATE: 02-27-99
 PIN NUMBER: 17735



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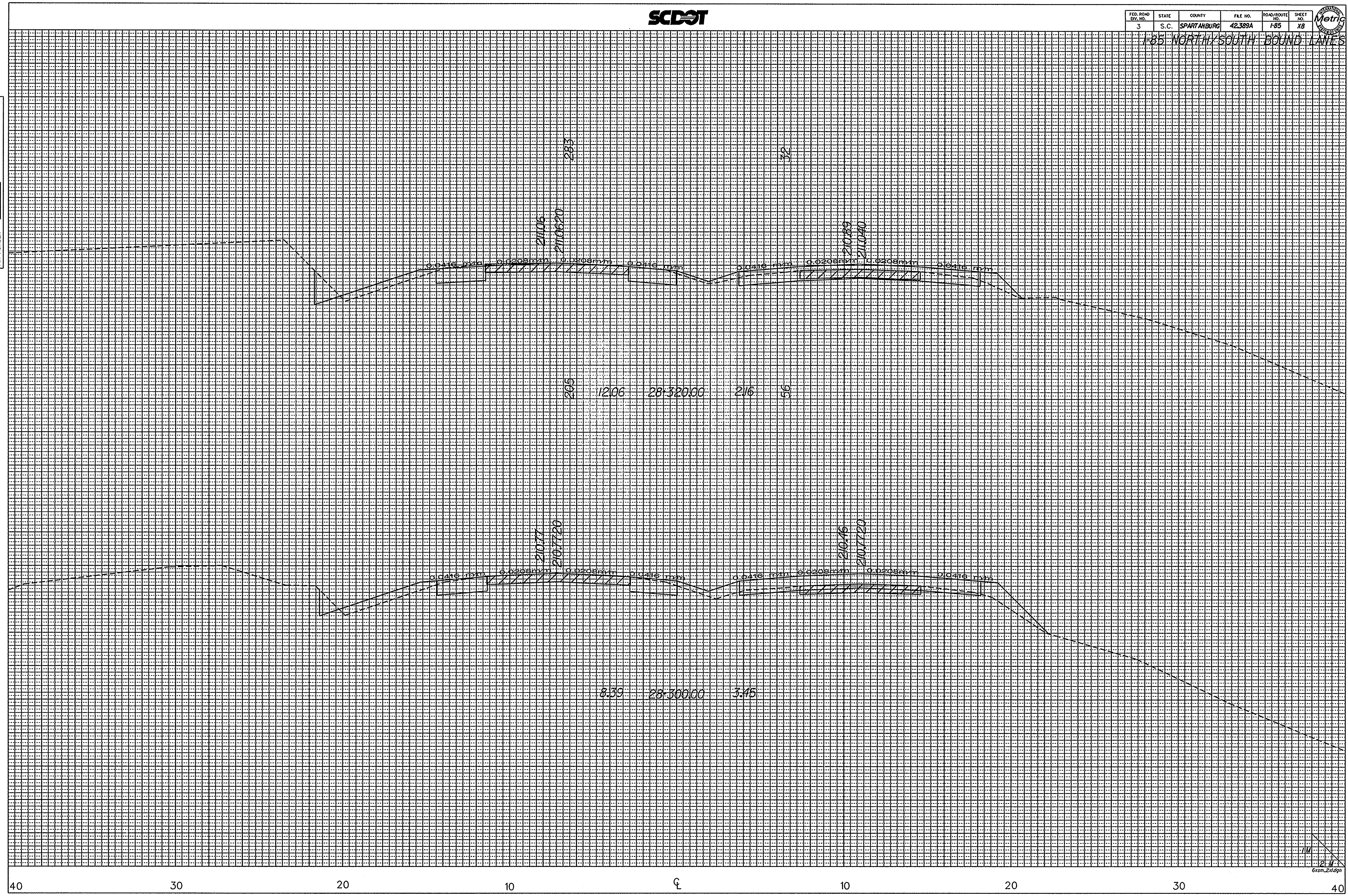
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X8

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY MANAGER: 1735 / 08/1/08
 SQUAD NUMBER: 3075 / SB / 08
 XS BY NAME: MJC / DATE: 08-27-96
 PIN NUMBER: 1735



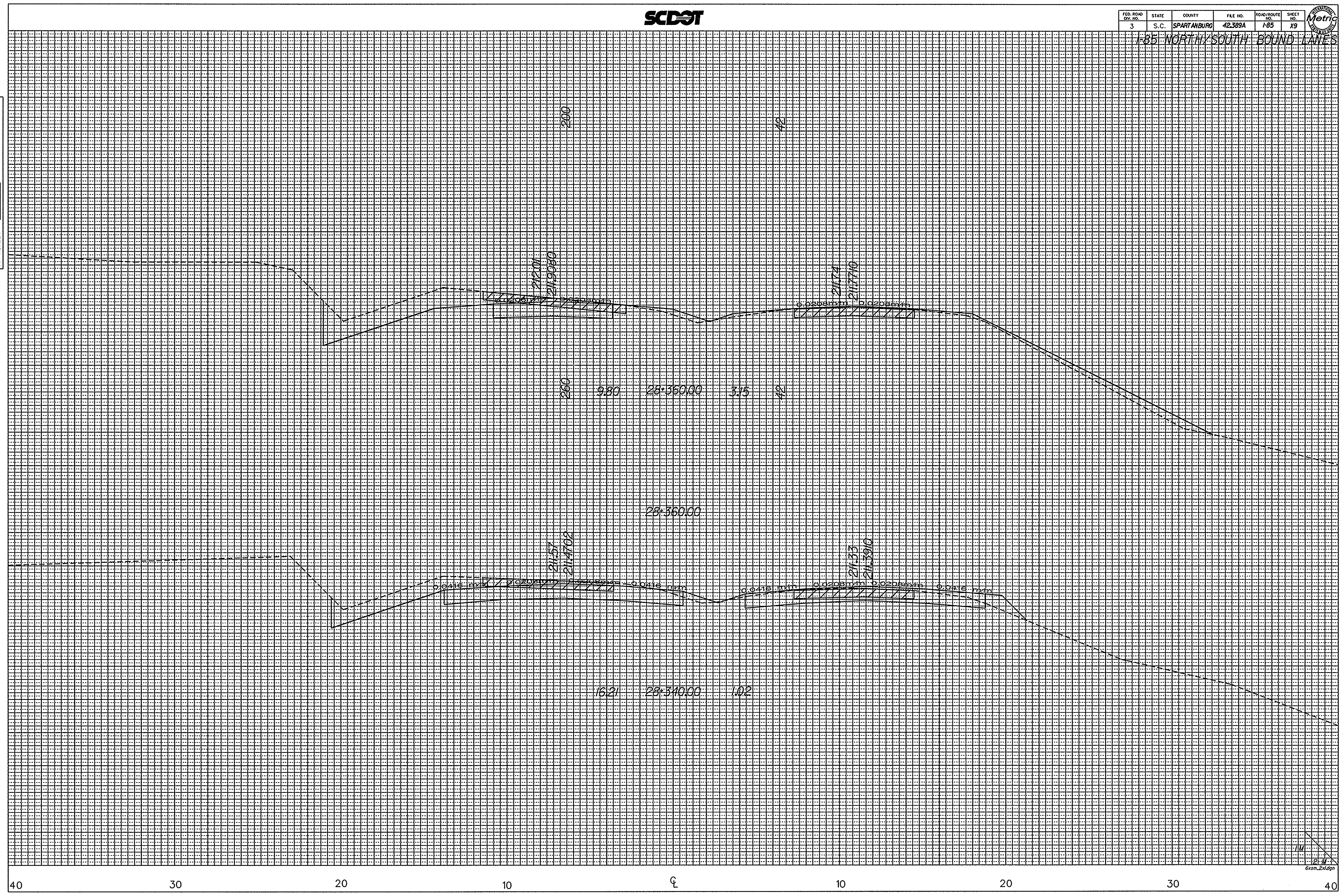
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X9

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY MANAGER 17735 / 0857001
 SQUAD NUMBER 3033 SUB DR. FILE NAME
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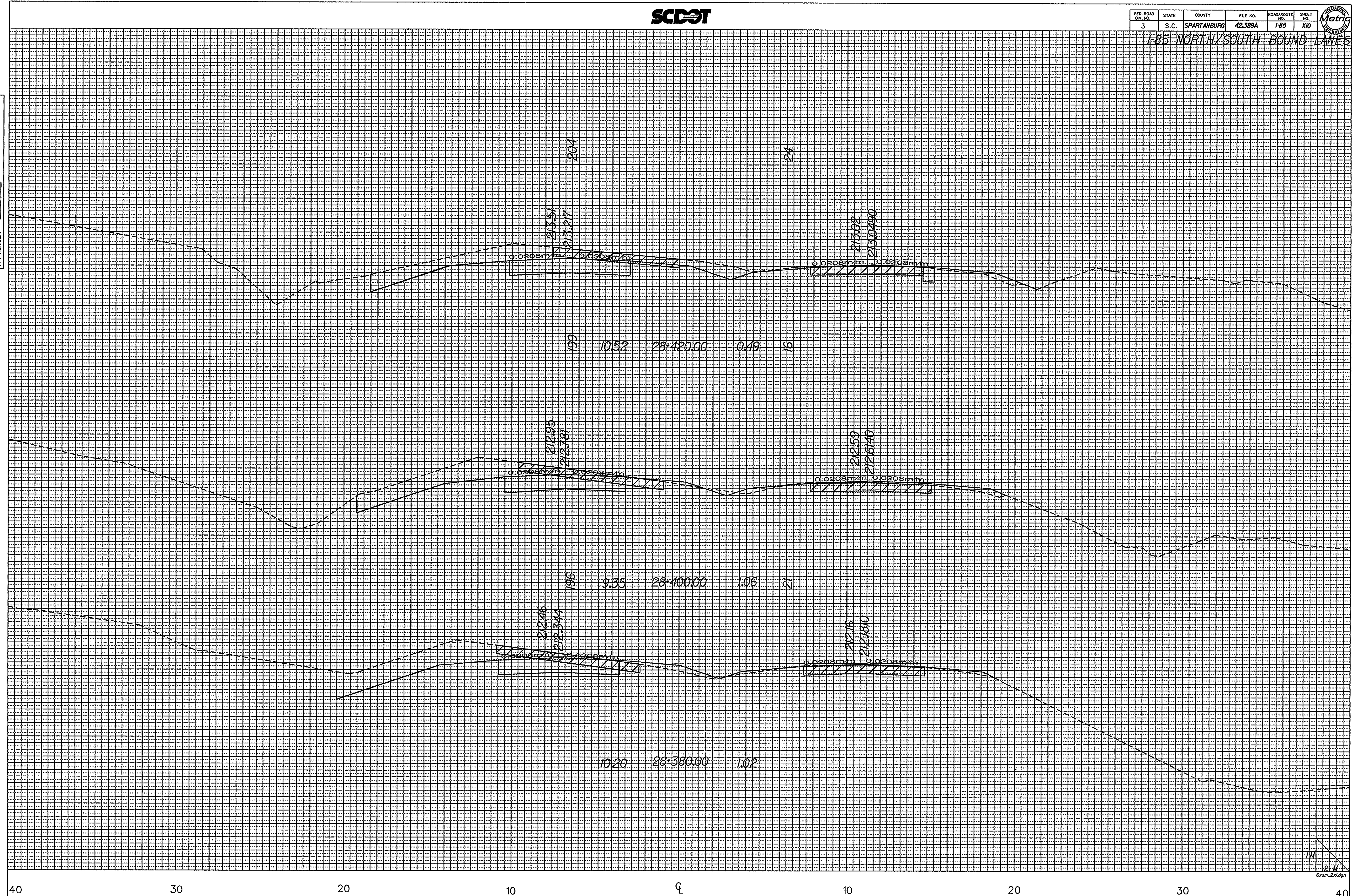
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FED. ROAD DIV. NO.	STATE	COUNTY	F.I.E. NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	XI0

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY NUMBER: 17735 / 087404
SQUAD NUMBER: 303
DATE: 08-21-96
BY: MJC
PIN NUMBER: 17735



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20-DEC-1996

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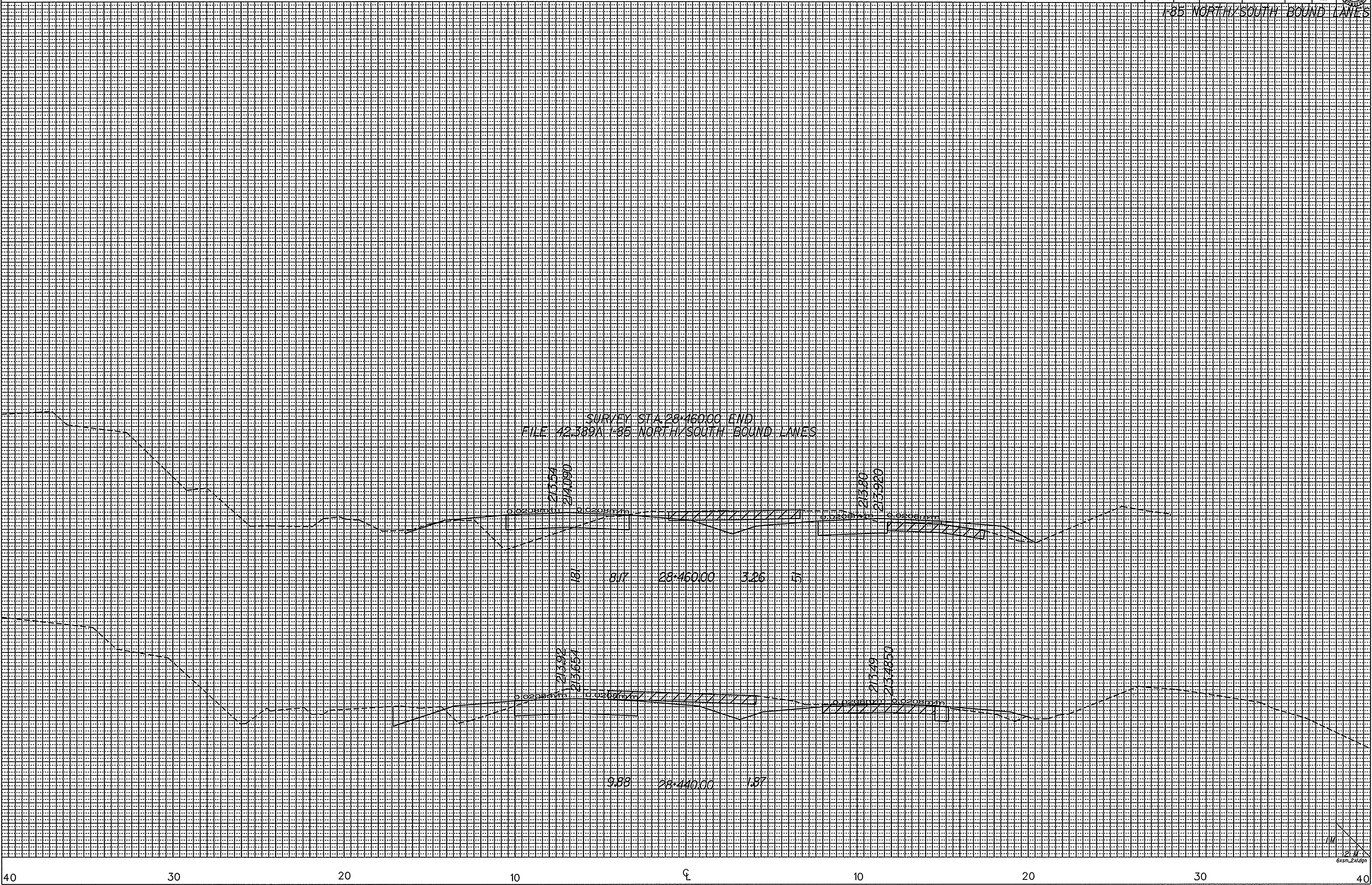
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3	S.C.	SPARTANBURG	42.389A	I-85	XII

I-85 NORTH/SOUTH BOUND LANES

DIRECTORY
SQUAD NUMBER
YS BY NAME
PIN NUMBER

17735 / 185/2401
SAB DR
M.C.
17735

08-27-1996



SURVEY STA. 28+460.00 END
FILE 42.389A I-85 NORTH/SOUTH BOUND LANES

213.54
214.09

215.80
213.92

1.81 8.17 28+460.00 3.26 5.1

213.92
213.65

213.49
213.46

9.88 28+440.00 1.87

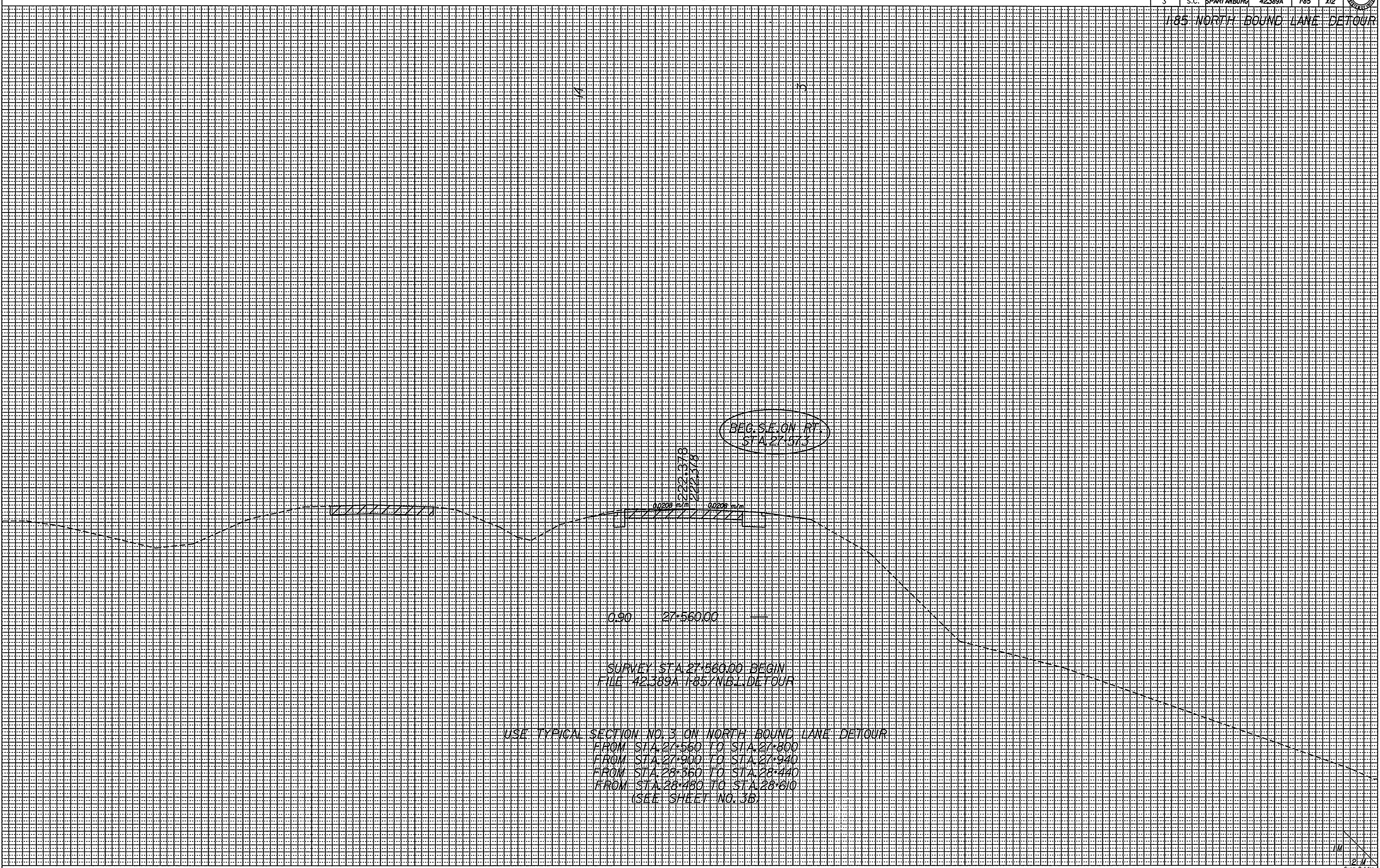
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20-DEC-1996



FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X12

I-85 NORTH BOUND LANE DETOUR

DIRECTORY MANAGER: MANSEY / 17735 / I-85 NORTH BOUND LANE DETOUR
 SUB DR: MANSEY
 DRAWING NO.: 17735
 DATE: 03-15-99
 DESIGNED BY: MAC
 CHECKED BY: MAC
 IN CHARGE: MAC
 PIN NUMBER: 17735



0.90 27+560.00
 SURVEY STA 27+560.00 BEGIN
 FILE 42389A I-85 NBL DETOUR

USE TYPICAL SECTION NO. 3 ON NORTH BOUND LANE DETOUR
 FROM STA 27+560 TO STA 27+800
 FROM STA 27+900 TO STA 27+940
 FROM STA 28+360 TO STA 28+440
 FROM STA 28+480 TO STA 28+610
 (SEE SHEET NO. 3B)

041490
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 03-JAN-1997

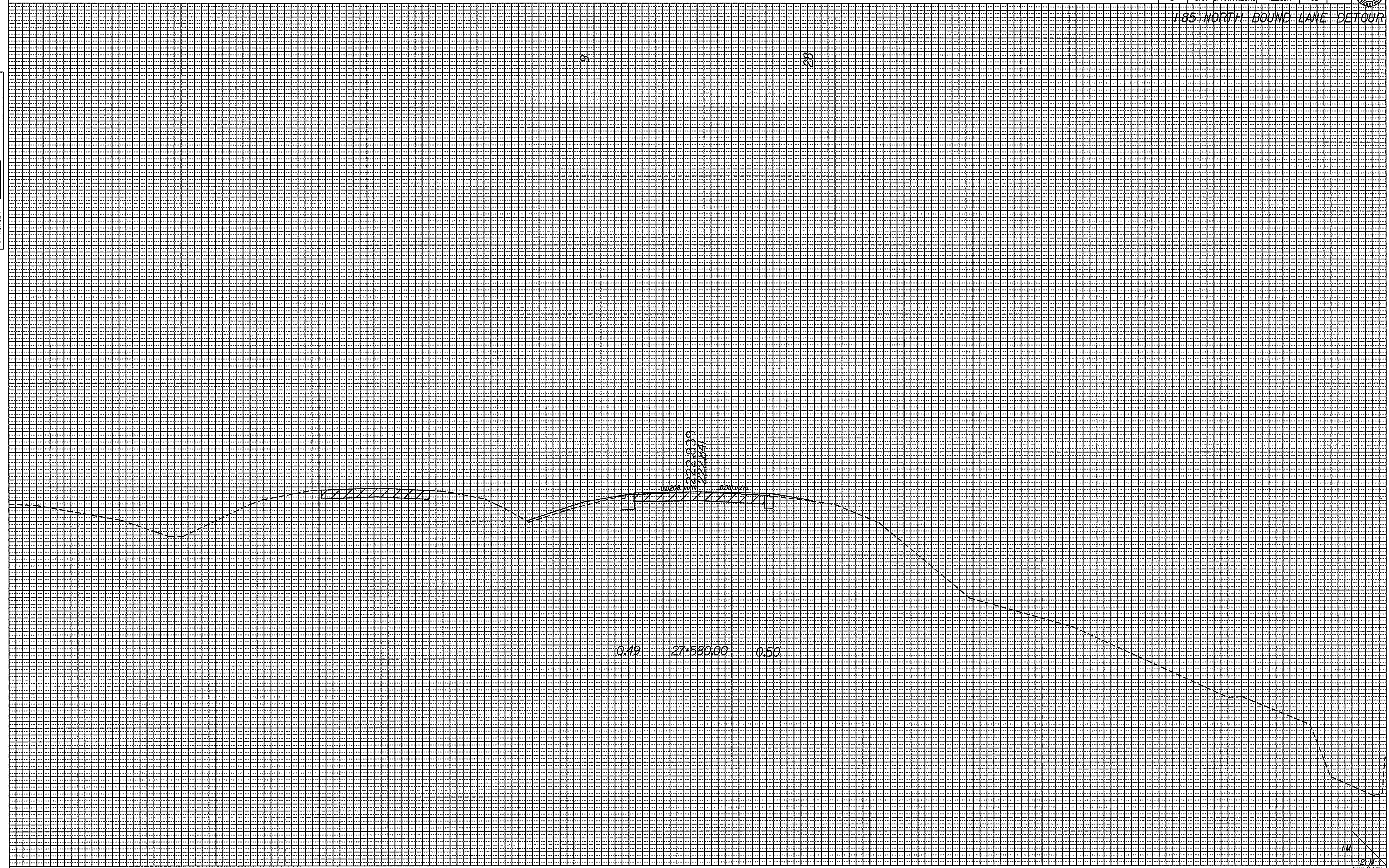


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X13



I-85 NORTH BOUND LANE DETOUR

DIRECTORY MANAGER: 17735 / TRDTEFX.DGN
 SQUAD NUMBER: 3
 XS BY NAME: M.C. / DATE: 10-31-1996
 PIN NUMBER: 17735



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 17-DEC-1996

1/11
 12/11
 6xsm_2x1.dgn

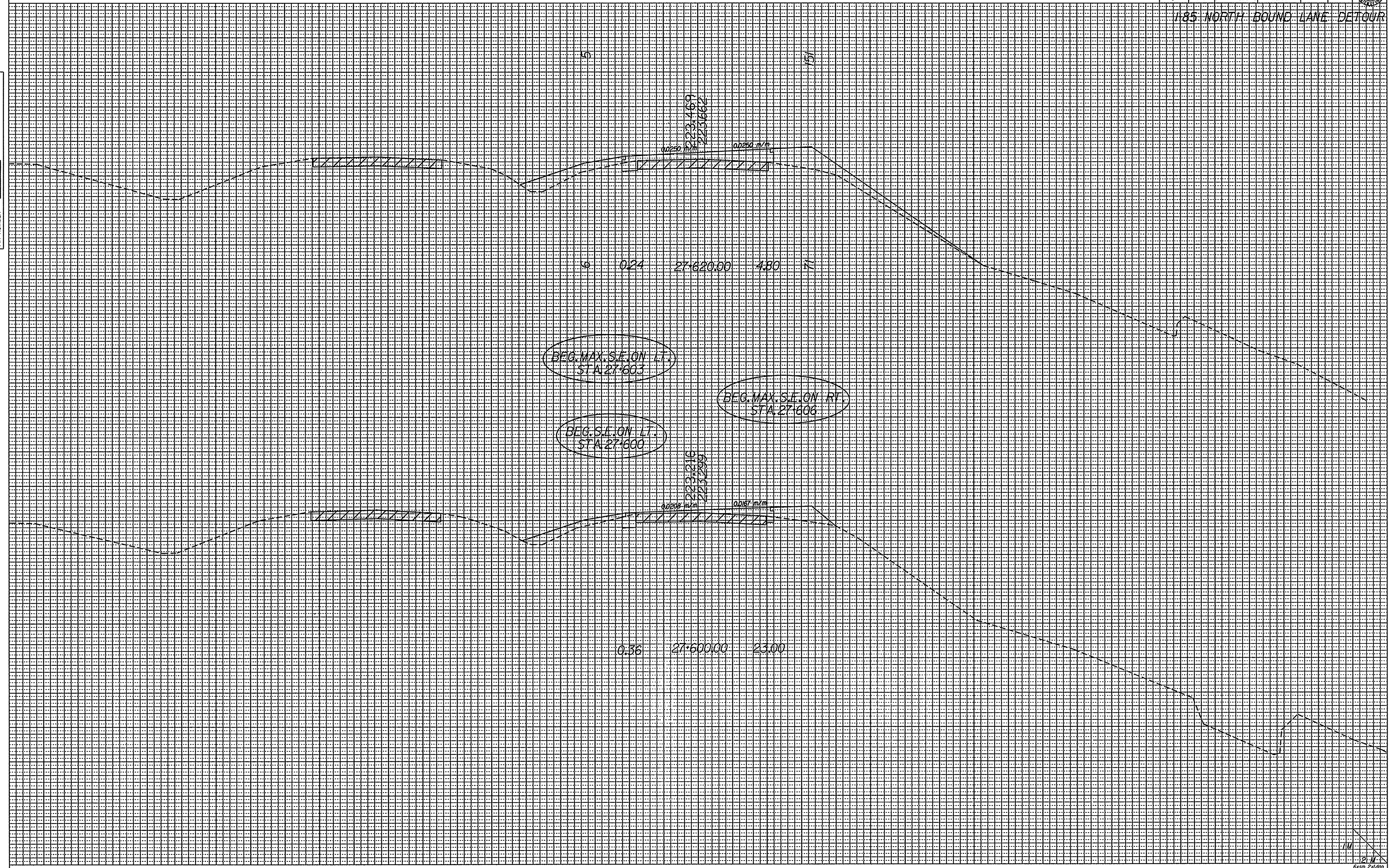


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	XII

I-85 NORTH BOUND LANE DETOUR

DIRECTORY
 SOUND NUMBER
 XS BY NAME
 PIN NUMBER

17735 / TRDETFC.DGN
 SUB NO.
 FILE NAME
 DATE
 17735



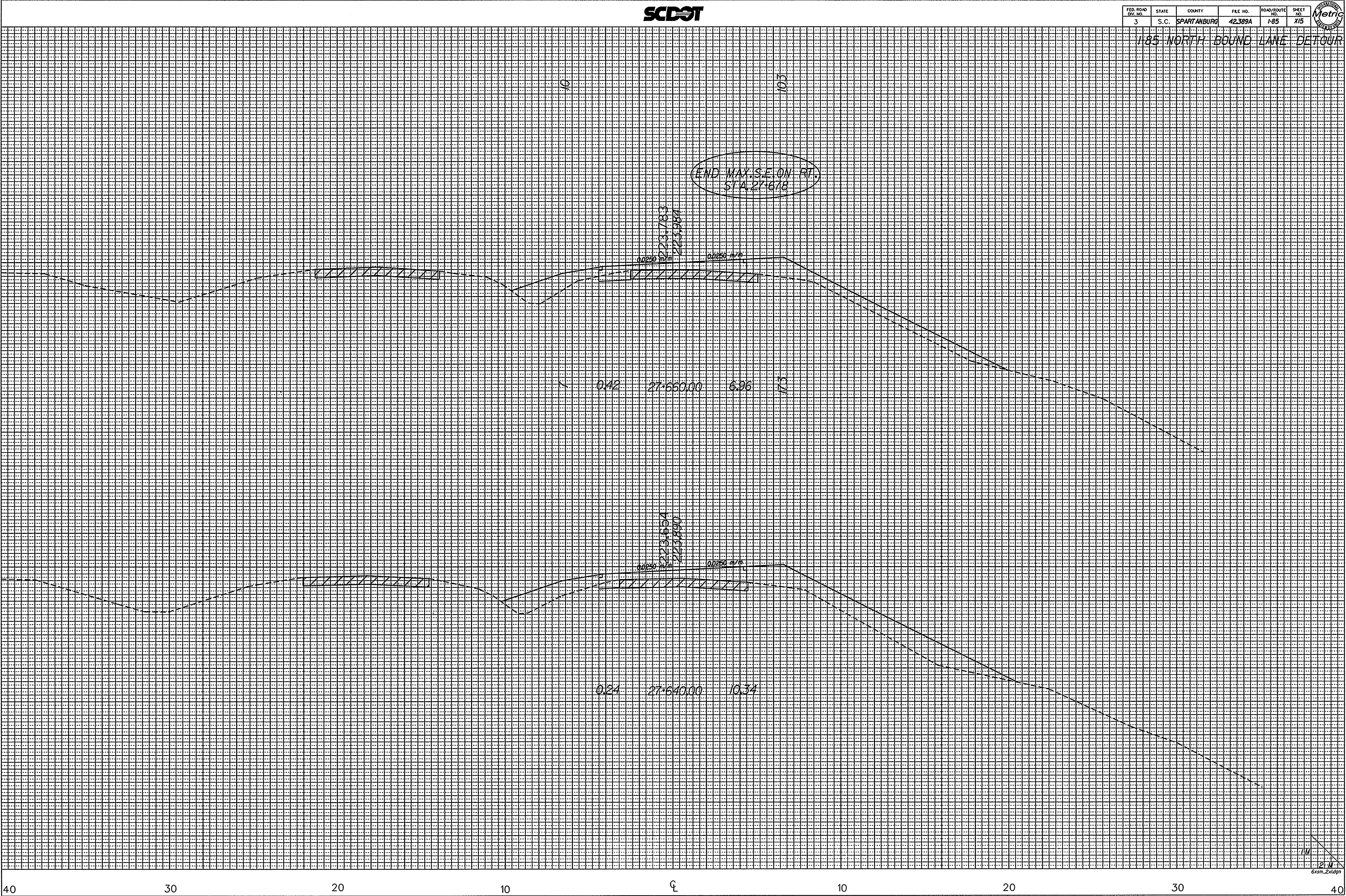
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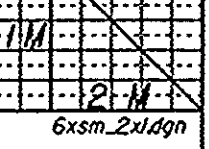
FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	XI5

I-85 NORTH BOUND LANE DETOUR

DIRECTORY: MAUSER, 17735 / TRDTEFX.DGN
 SOUND NUMBER: 3874
 XS BY NAME: MAC / JAC
 PIN NUMBER: 17735
 DATE: 10-31-1996



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 20-DEC-1996

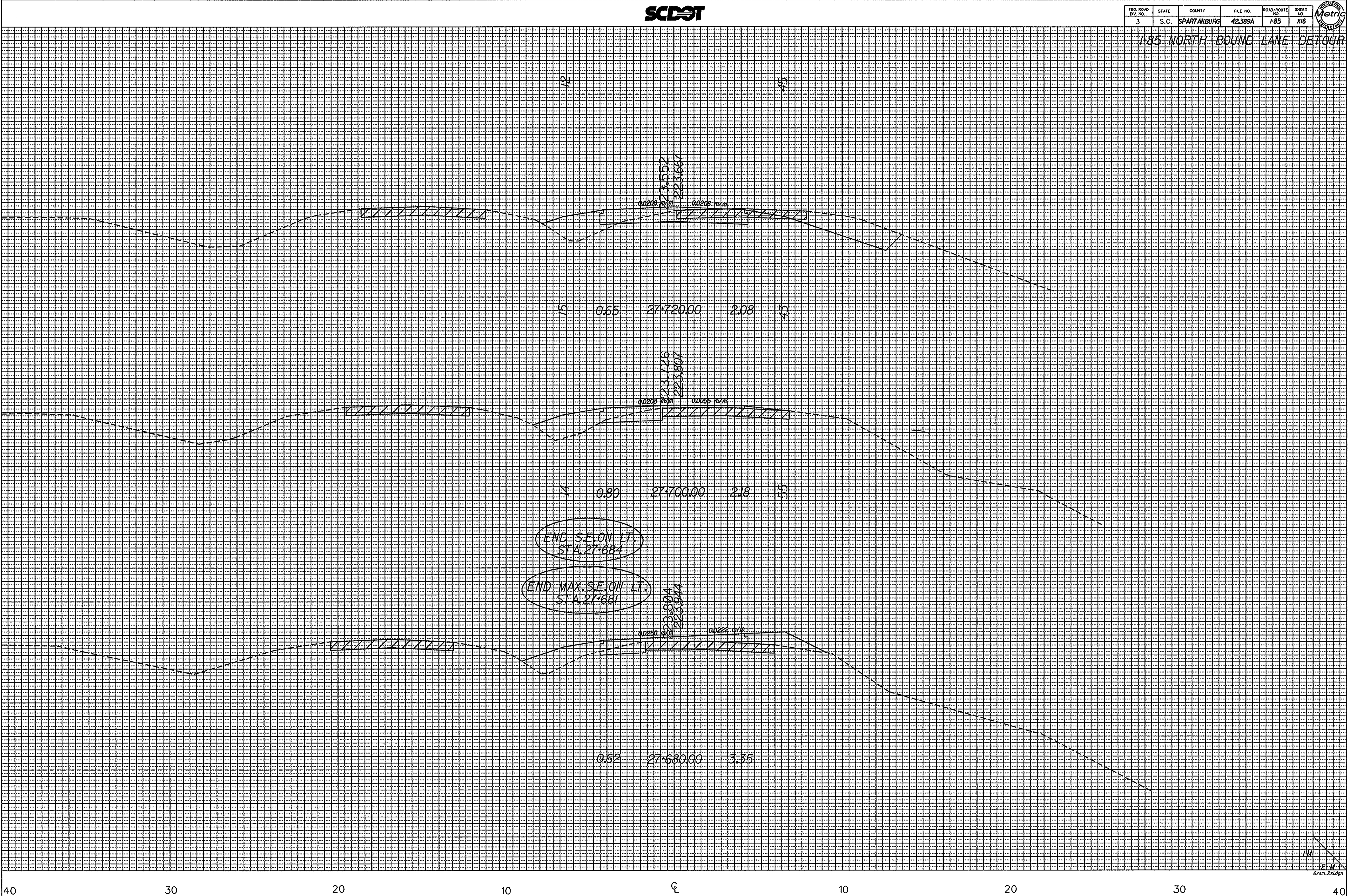




FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X16

I-85 NORTH BOUND LANE DETOUR

DIRECTORY
 DIVISION 17735 / TRD1735.DGN
 SUB OR
 SQUAD NUMBER 387
 DESIGNED BY CWF/MAC
 CHECKED BY MJC
 DATE 10-3-1996
 PIN NUMBER 17735



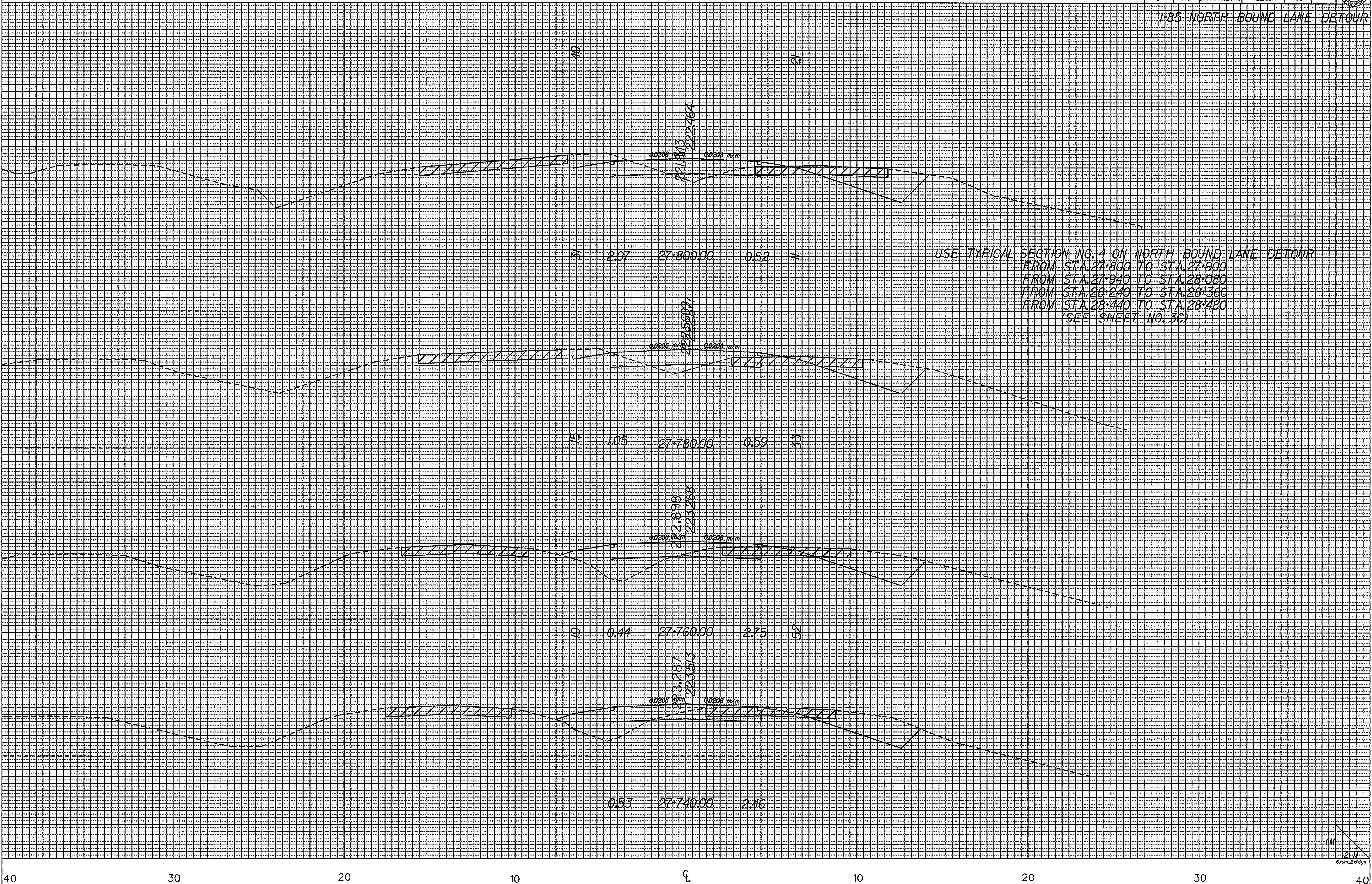
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 20-DEC-1996



FED. ROAD DIV. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X17

I-85 NORTH BOUND LANE DETOUR

DIRECTORY MAINSERV. 17735 / TRDETFLDGM
SQUAD NUMBER 508 DR. CWF/JAC
XS BY NAME MJC. DATE 12-31-96
PIN NUMBER 17735



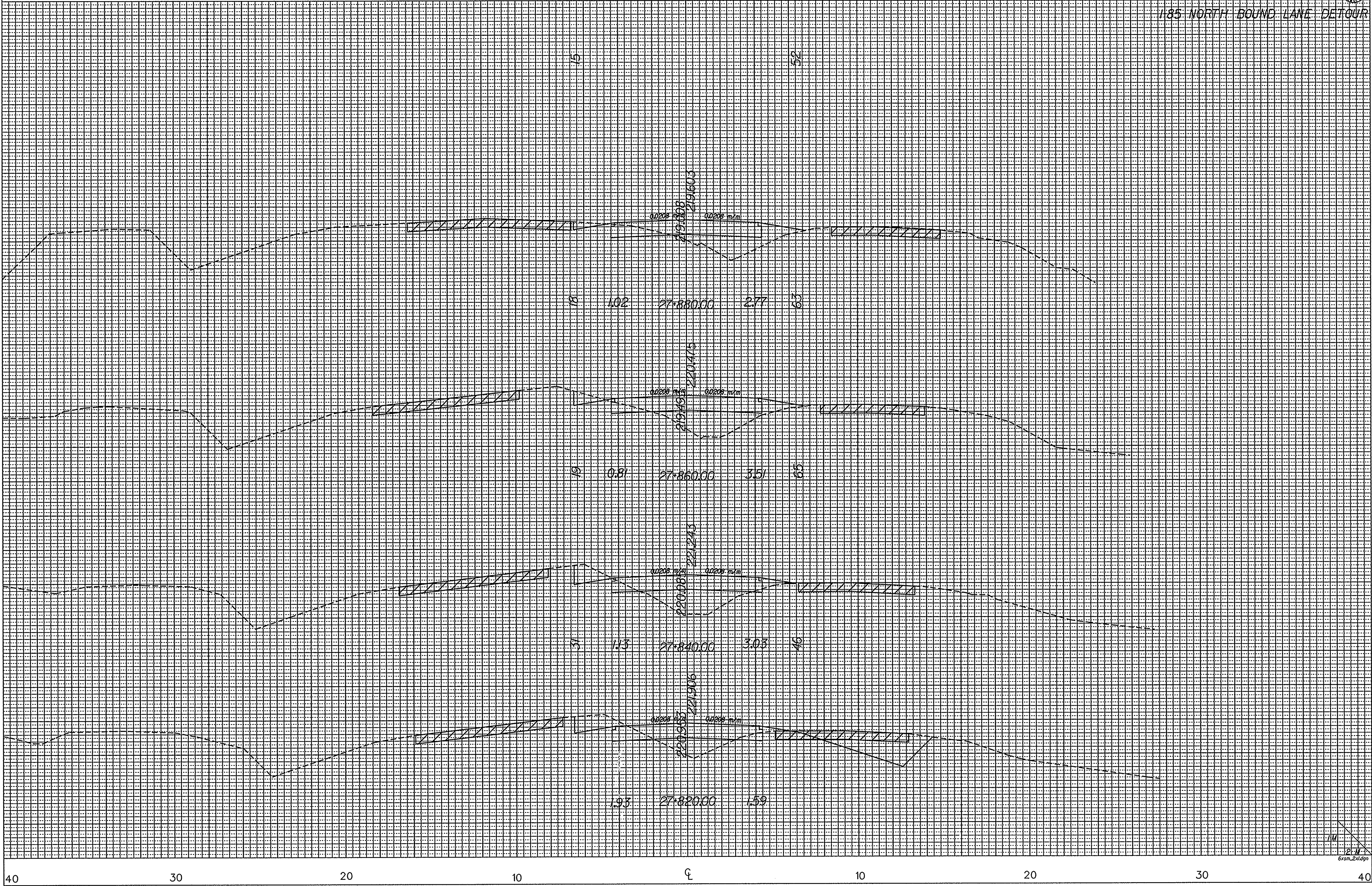
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17-DEC-1996



FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	XIIB

I-85 NORTH BOUND LANE DETOUR

DIRECTORY: MANSEY, 07/35 / TRDETFLX.DGN
 SQUAD NUMBER: 536 DR
 DESIGNED BY: CWF/MKC
 CHECKED BY: MKC
 DATE: 12-15-96
 PLOT NUMBER: 07/35



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 17-DEC-1996

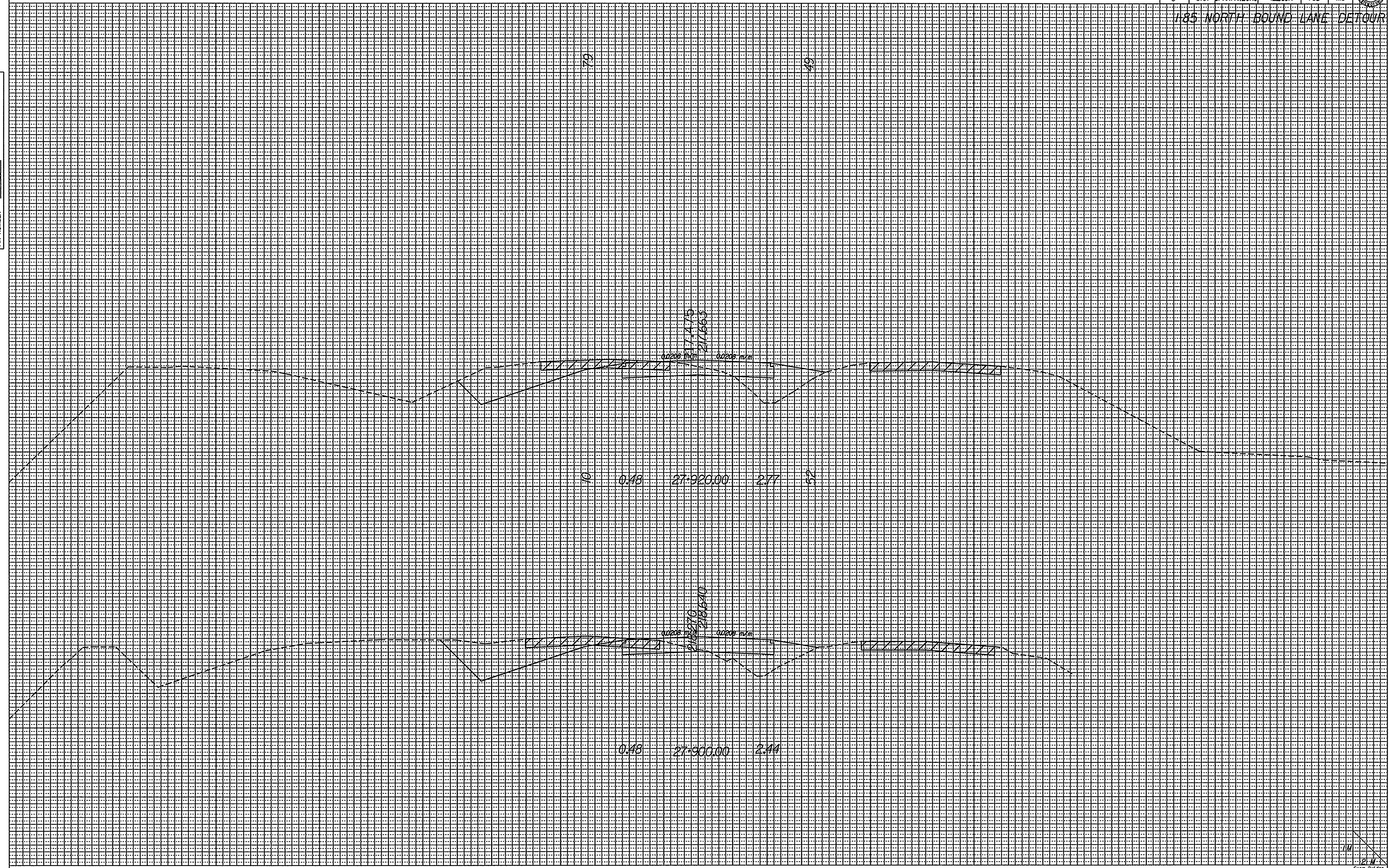
1/11
 2/11
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FED. ROAD DIST. NO.	STATE	COUNTY	F.A.E. NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X19

I-85 NORTH BOUND LANE DETOUR

DIRECTORY
 17735 / TRDETFLDGN
 SUB NO. 3
 DATE 10-31-96
 BY NAME MJC
 PIN NUMBER 17735



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 17-DEC-1996

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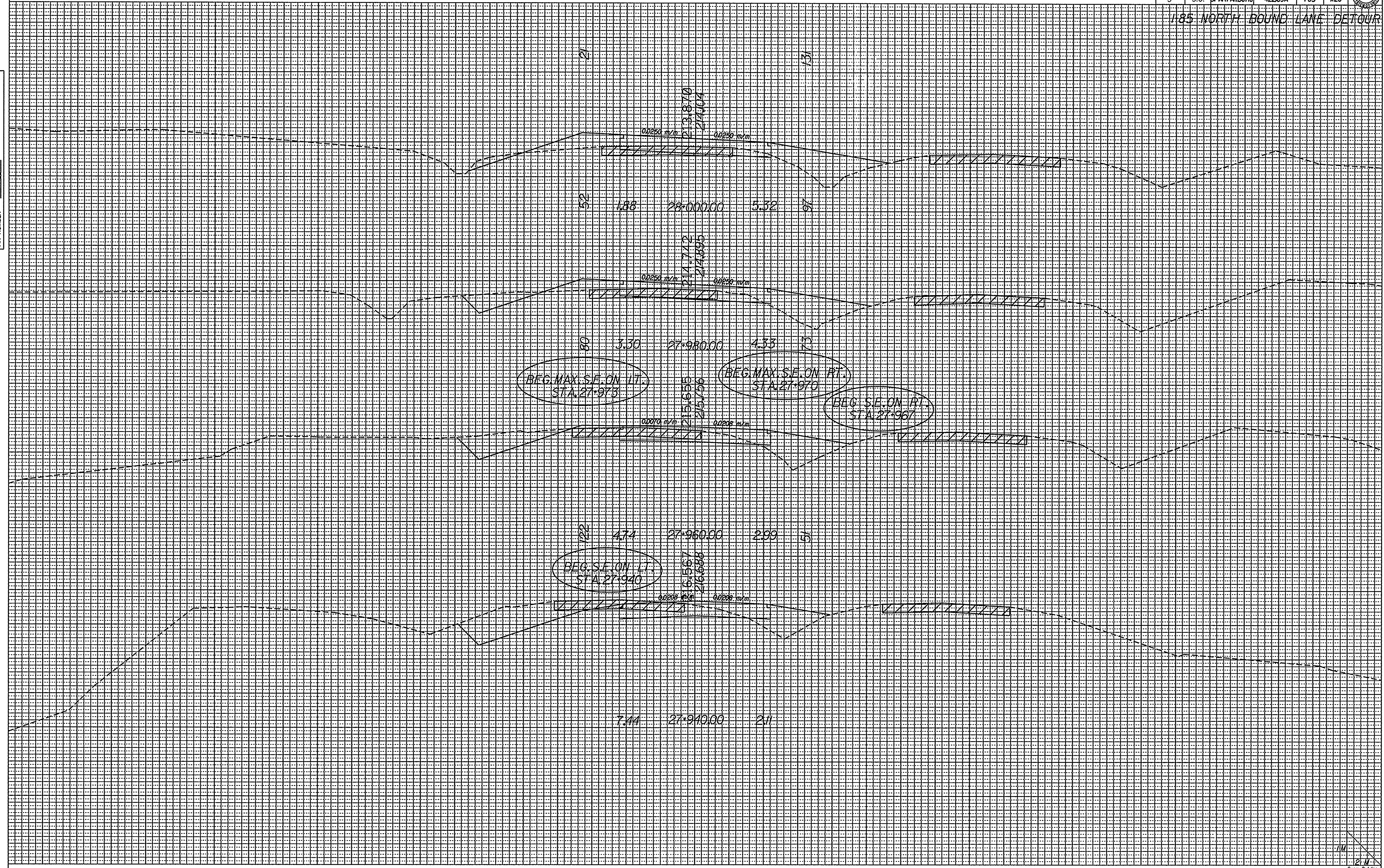


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X20

I-85 NORTH BOUND LANE DETOUR

DIRECTORY
SQUAD NUMBER
AS BY NAME
PIN NUMBER

17735 / TRDTEFX.DGN
SUB
DATE
10-3-1996



041490
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20-DEC-1996

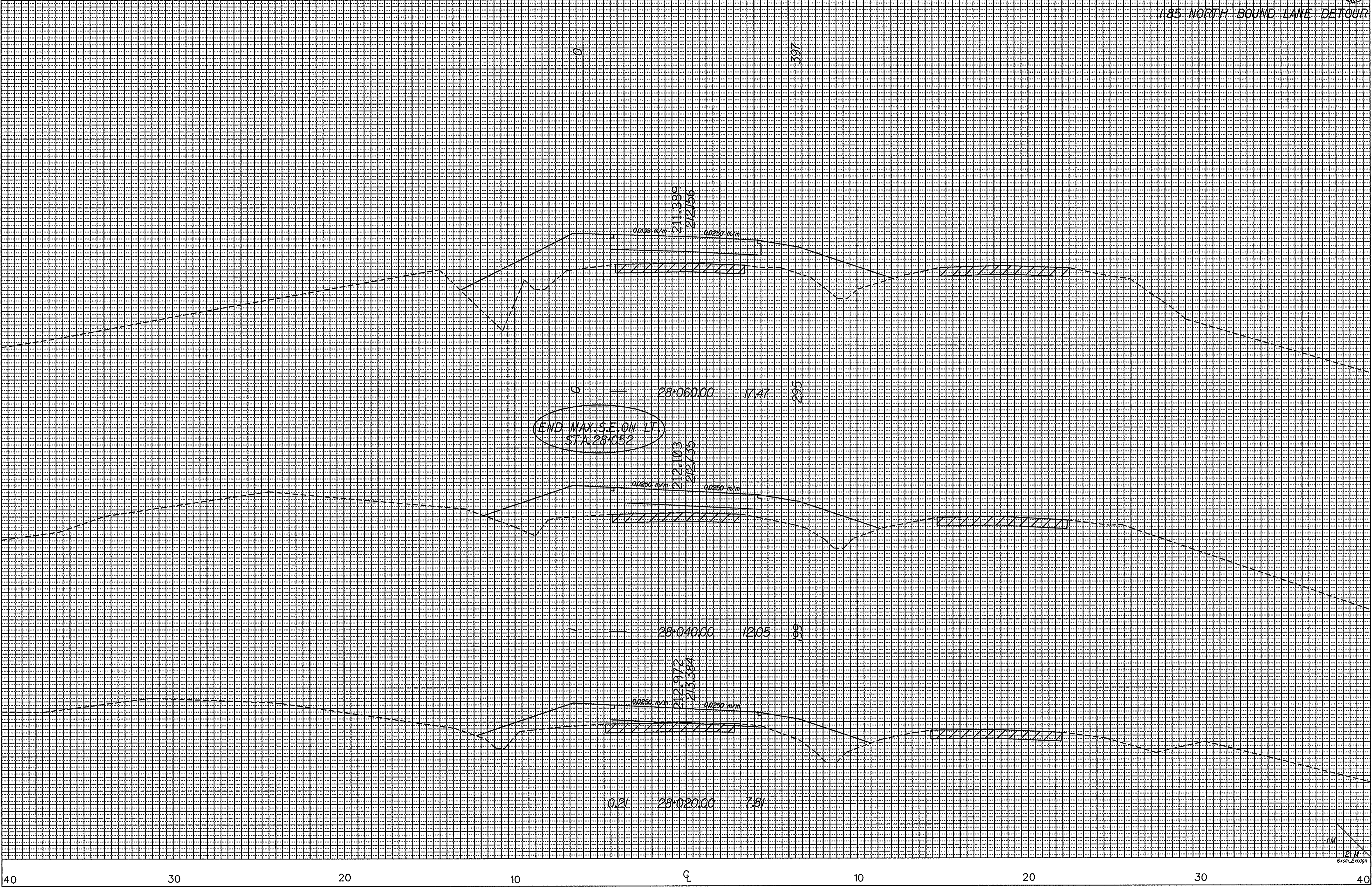
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X21

I-85 NORTH BOUND LANE DETOUR

DIRECTORY MANAGER: 17735 / TRDTEFX.DGN
 SQUAD NUMBER: 308 DCR
 XS BY NAME: CNE, MKC
 PIN NUMBER: 17735
 DATE: 10-3-99



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 20-DEC-1996

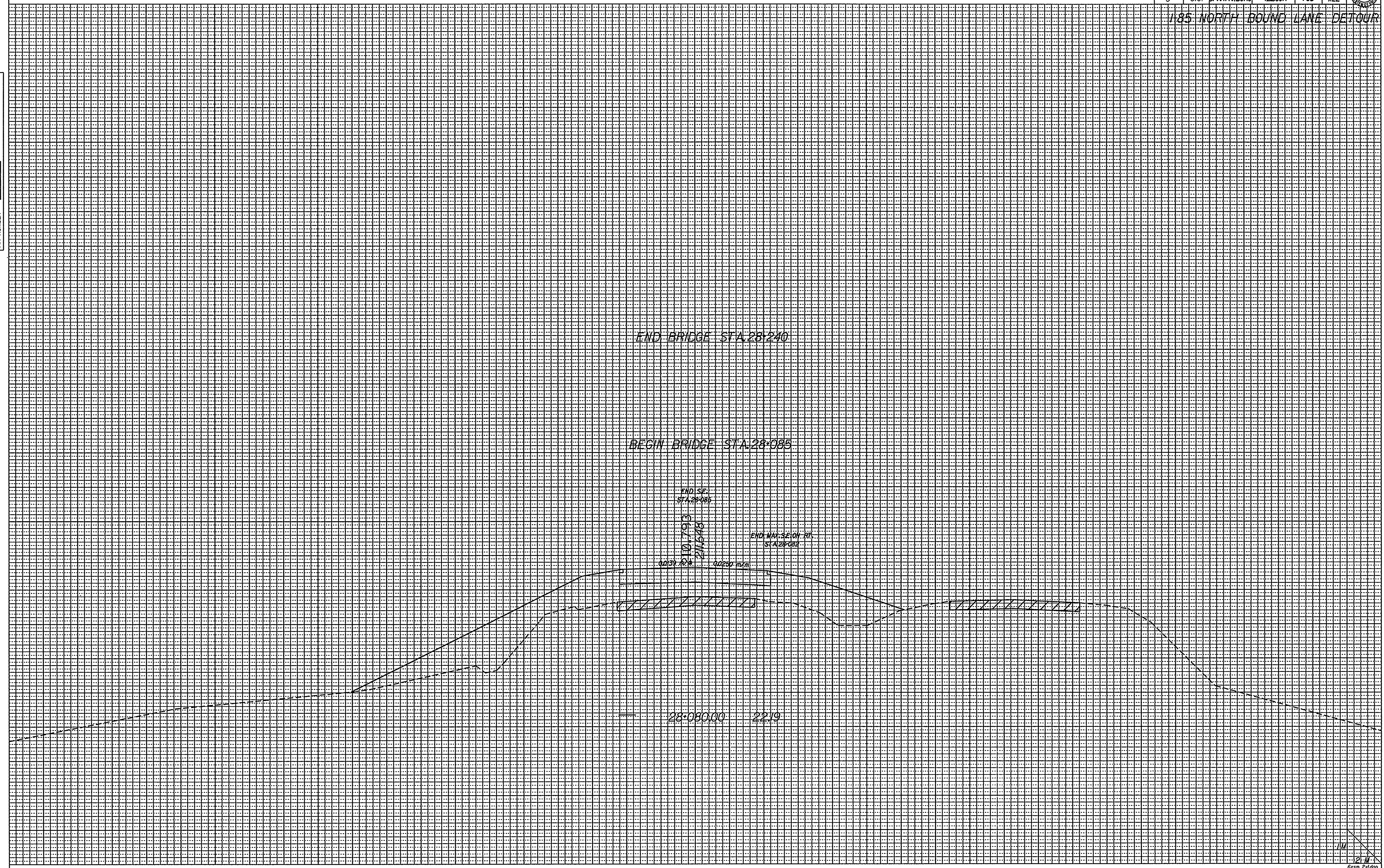
1/11
 P.M.
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FED. ROAD DIST. NO.	STATE	COUNTY	F.L.E. NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X22

I-85 NORTH BOUND LANE DETOUR

DIRECTORY MANAGER: 17735 / TRDTEV.DGN
 SQUAD NUMBER: 3
 DESIGNED BY: MJC
 CHECKED BY: MJC
 DATE: 10-31-96
 PIN NUMBER: 17735



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 17-DEC-1996

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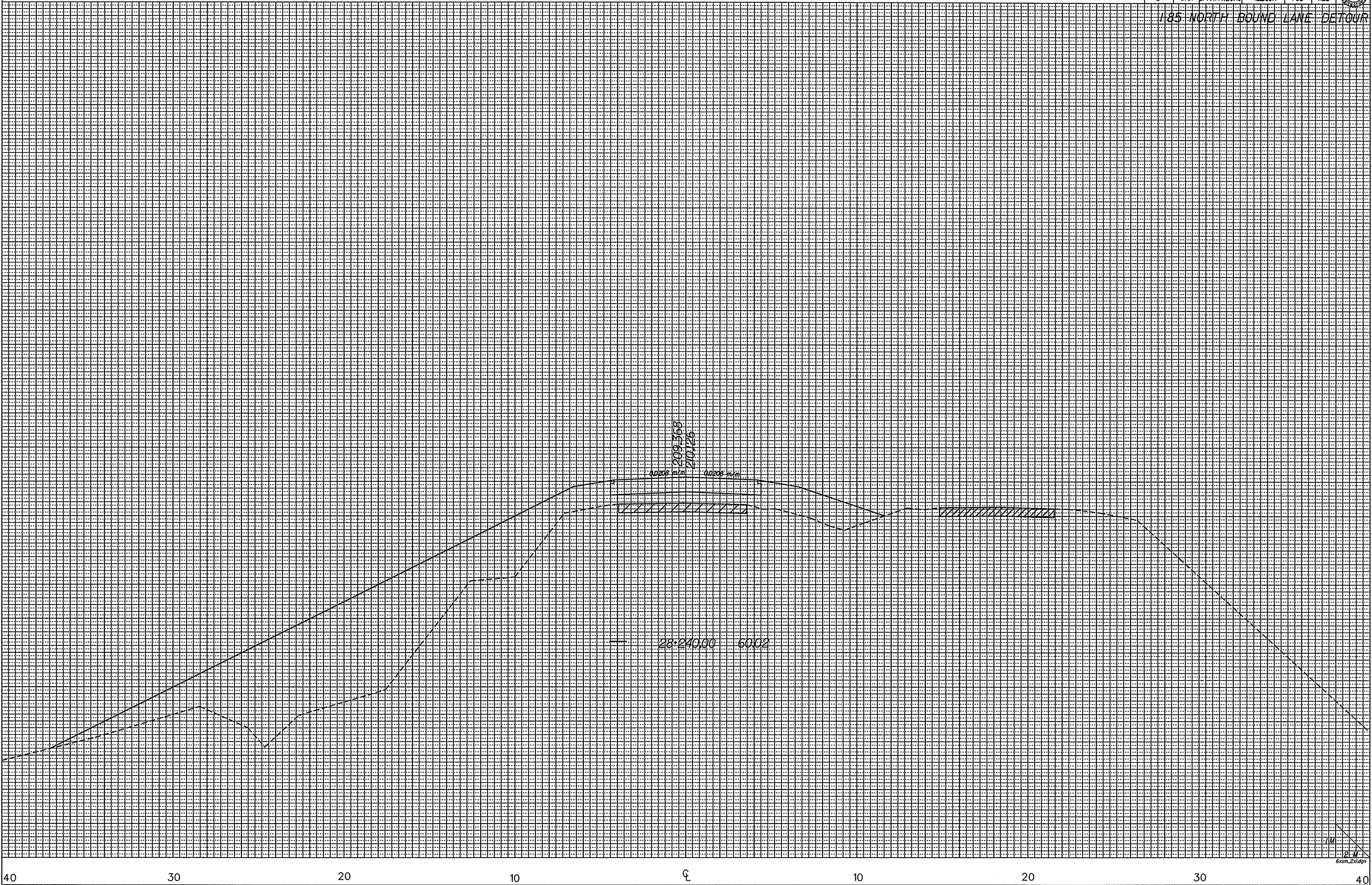
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 6/28/96



FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	K23

I-85 NORTH BOUND LANE DETOUR

DIRECTORY: MANSON, 17735 / TRDETFLAN
 SQUAD NUMBER: 585 SUB DIR: CH
 DESIGNED BY: MAC DATE: 12-15-96
 CHECKED BY: MAC
 PIN NUMBER: 17735



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 17-DEC-1996

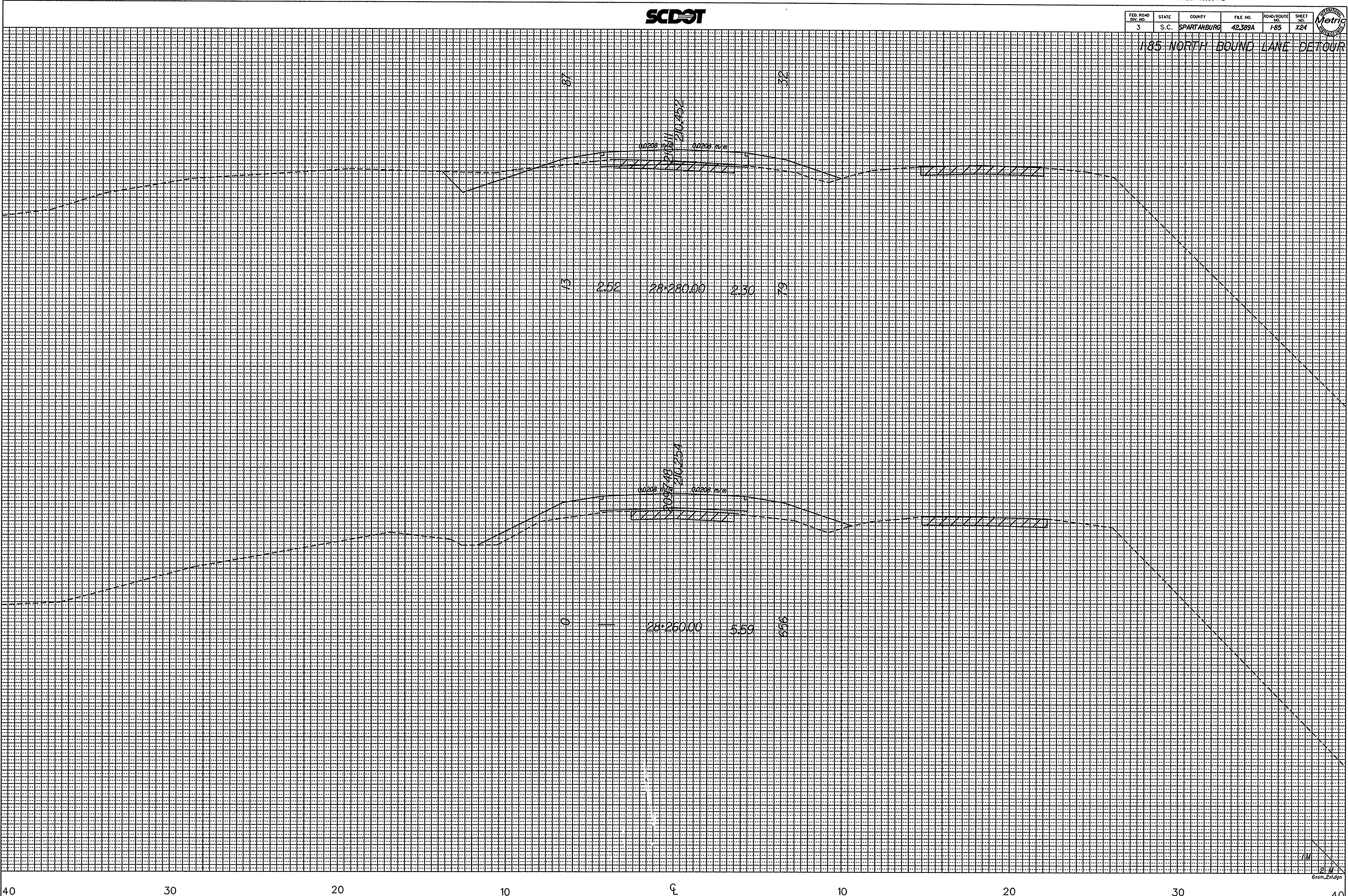
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	K24

I-85 NORTH BOUND LANE DETOUR

DIRECTORY - MAUSER - 17735 / TRDETFX.DGN
 SHEET NO. 38 OR 39
 SOUND NUMBER 17735 INITIALS CM WAC
 AS BY NAME MAC DATE 10-21-96
 PIN NUMBER 17735



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 17-DEC-1996

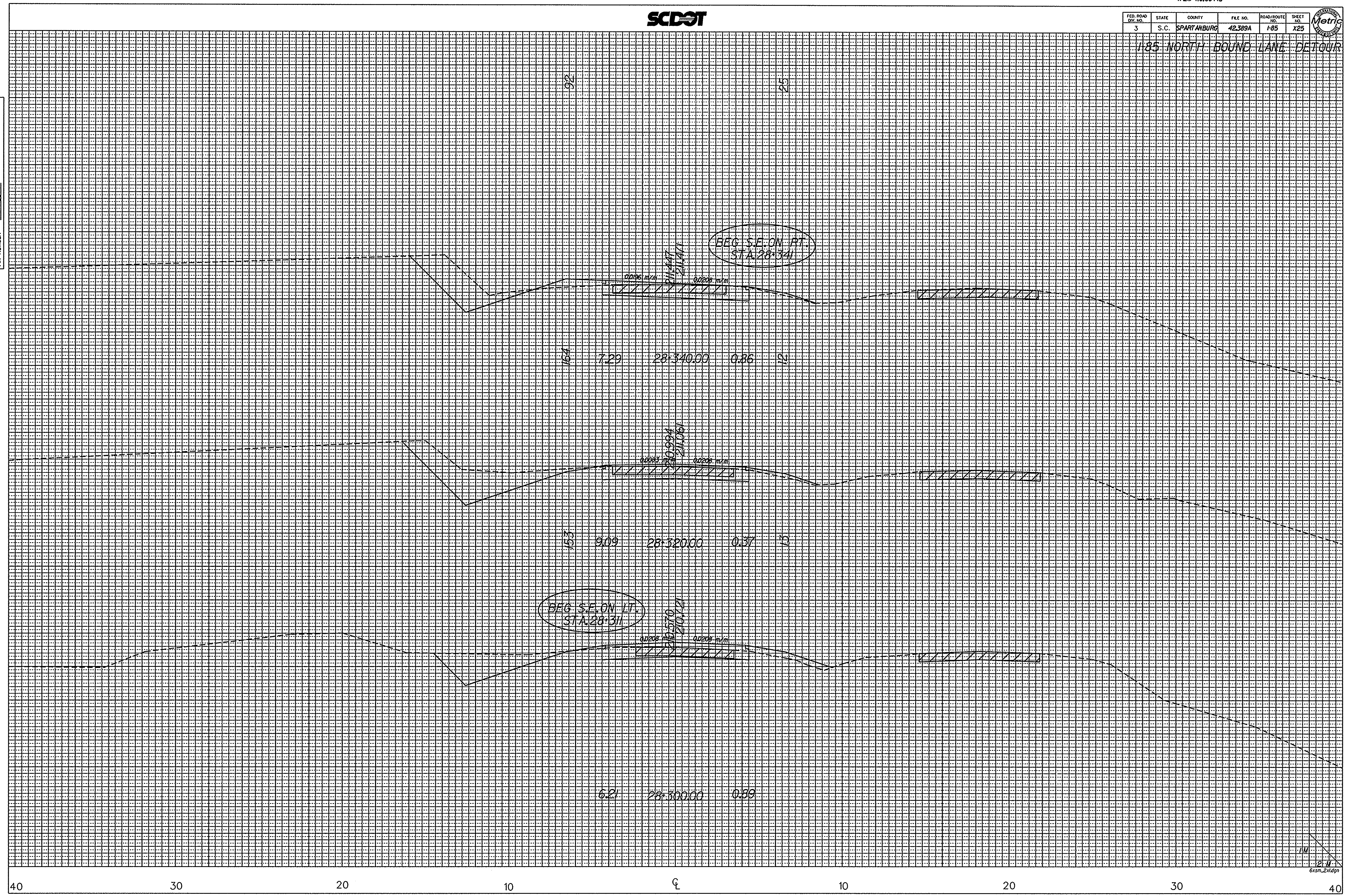
1/11
 P.W.
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	125

I-85 NORTH BOUND LANE DETOUR

DIRECTORY
SQUAD NUMBER 17735 / TRDTEFLD01
SERIES 308
DESIGNED BY CWF/MAC
CHECKED BY CWF/MAC
DATE 10-31-1996
PIN NUMBER 17735



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c:\rdsqd3\17735\trdetfx.dgn
20-DEC-1996

1/11
P. W.
6xsm_2x1.dgn

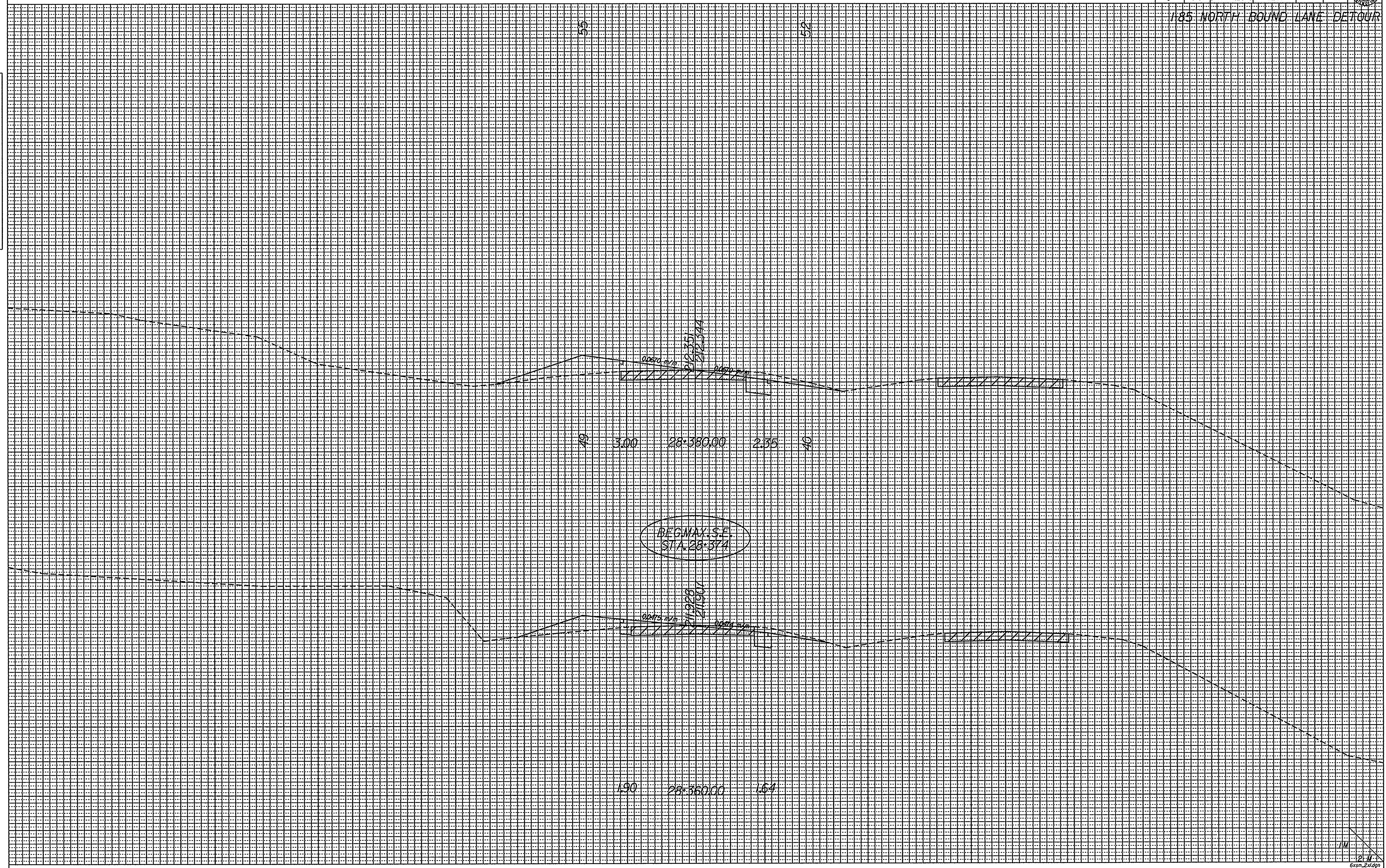


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	1-85	X26

185 NORTH BOUND LANE DETOUR

DIRECTORY MANSEV- 1735 / TRDETFL00A
 SQUAD NUMBER 3
 XS BY NAME M.A.C.
 PIN NUMBER 1735

SUB DRG FILE NAME CNF/MAC
 INITIALS DATE 10-31-1996



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 20-DEC-1996

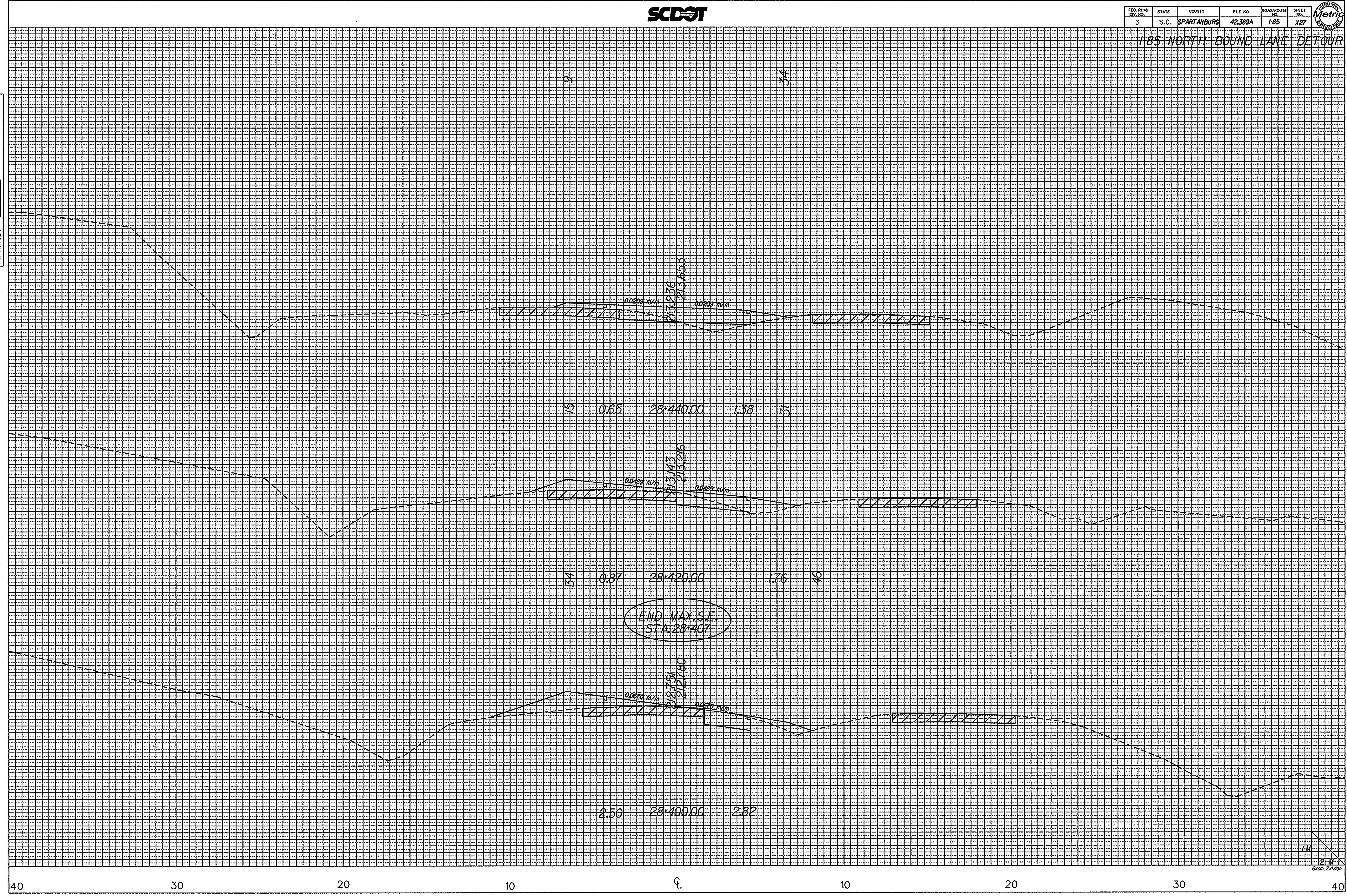
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X27

I-85 NORTH BOUND LANE DETOUR

DIRECTORY MANSEY, SUB 3 / TRDTEFD01
 SQUAD NUMBER 3
 XS BY NAME MAC / DATE 10-31-99
 PIN NUMBER 17735



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 20-DEC-1996

1/11
 2.11
 6.0m 2.11gpn

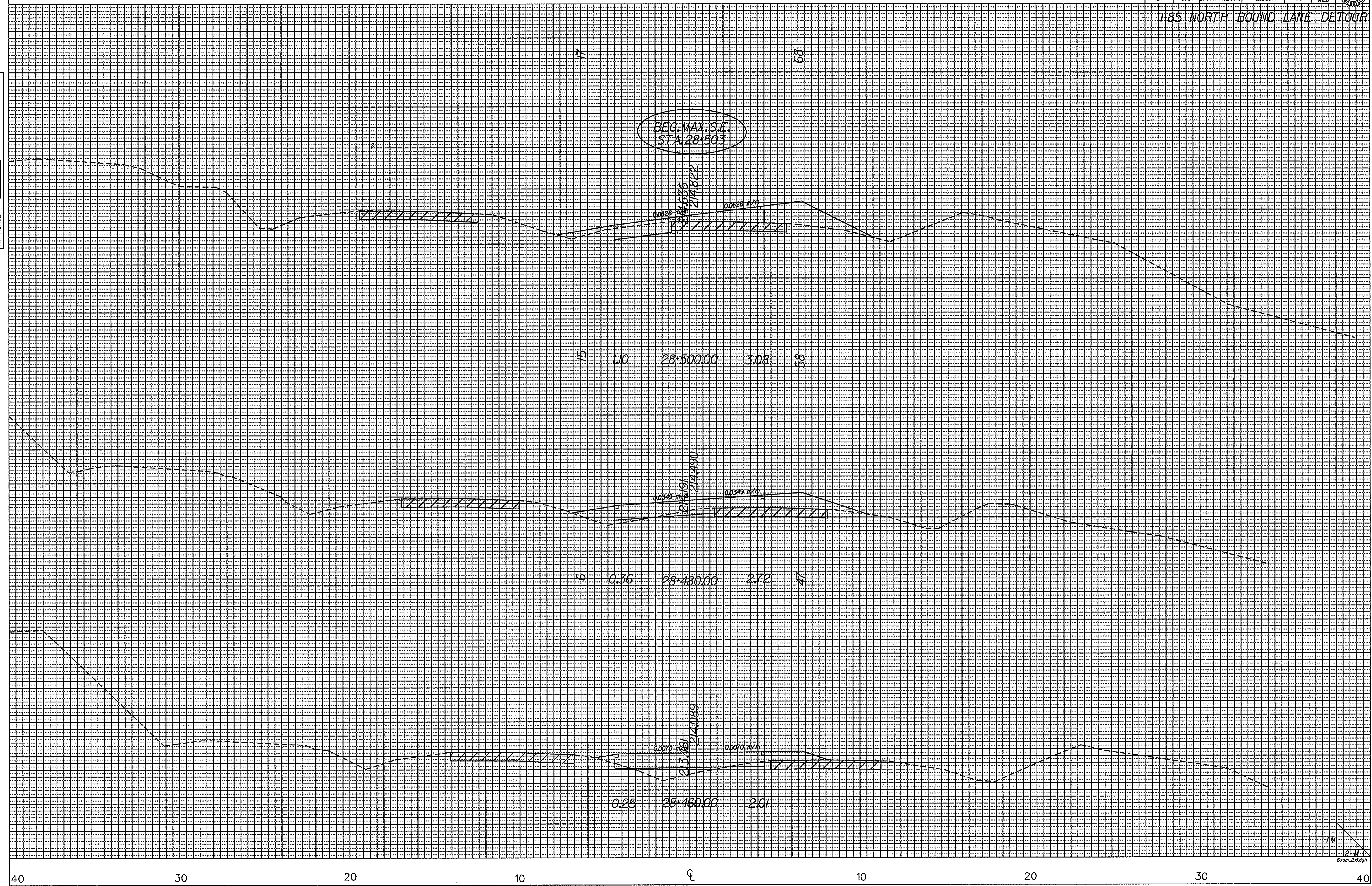


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X28



I-85 NORTH BOUND LANE DETOUR

DIRECTORY: 17735 / TROTFX.DGN
 SQUAD NUMBER: 3
 DESIGNED BY: MJC
 CHECKED BY: MJC
 DATE: 10-31-96
 PIN NUMBER: 17735

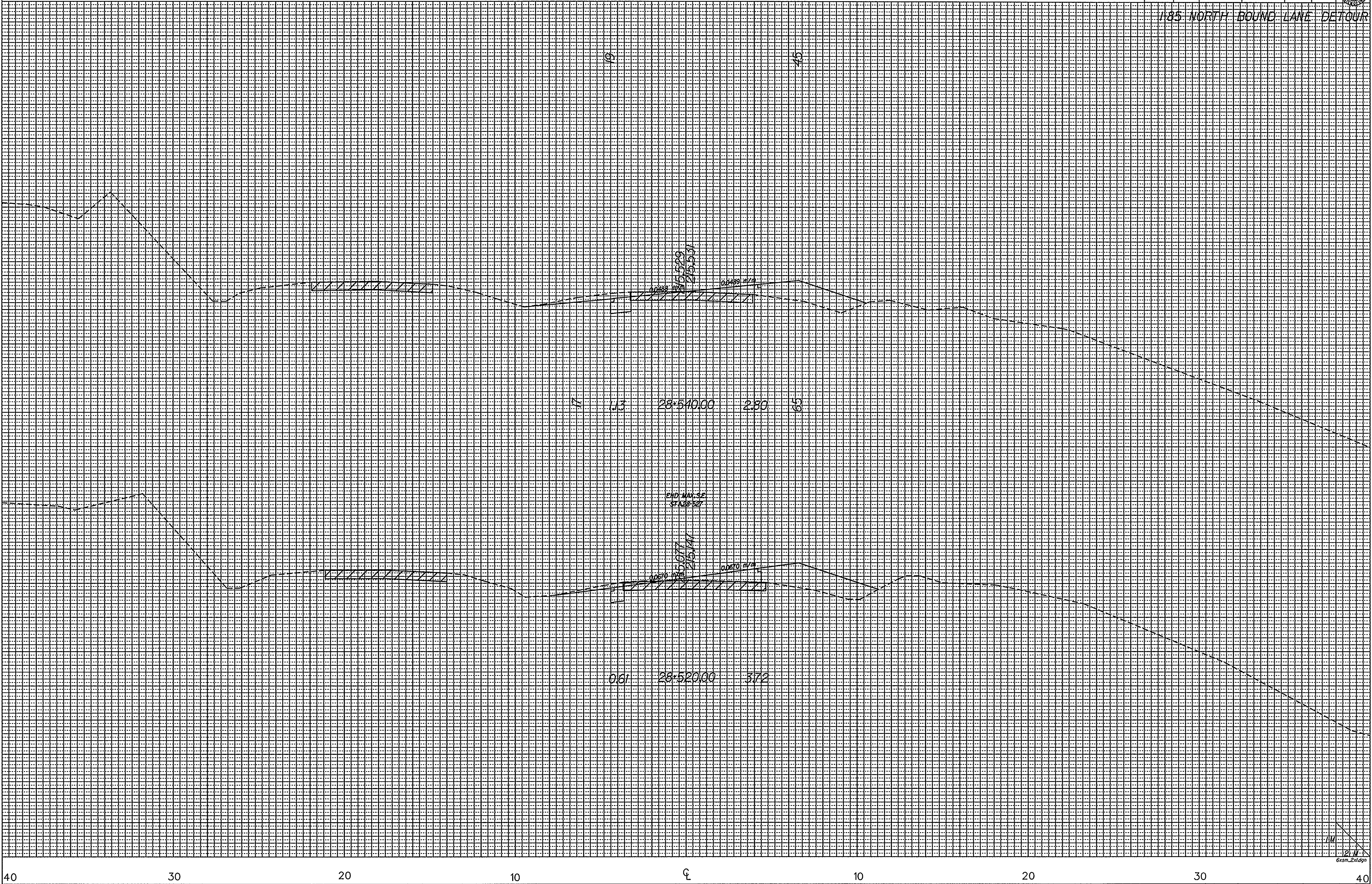


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 20-DEC-1996

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X29

I-85 NORTH BOUND LANE DETOUR

DIRECTORY - MANSEY - 17735 / TRDETFLAH
 SQUAD NUMBER 585R SUB DR. CHP MKC
 DESIGNED BY NAME MKG DATE 10-25-96
 PIN NUMBER 17735



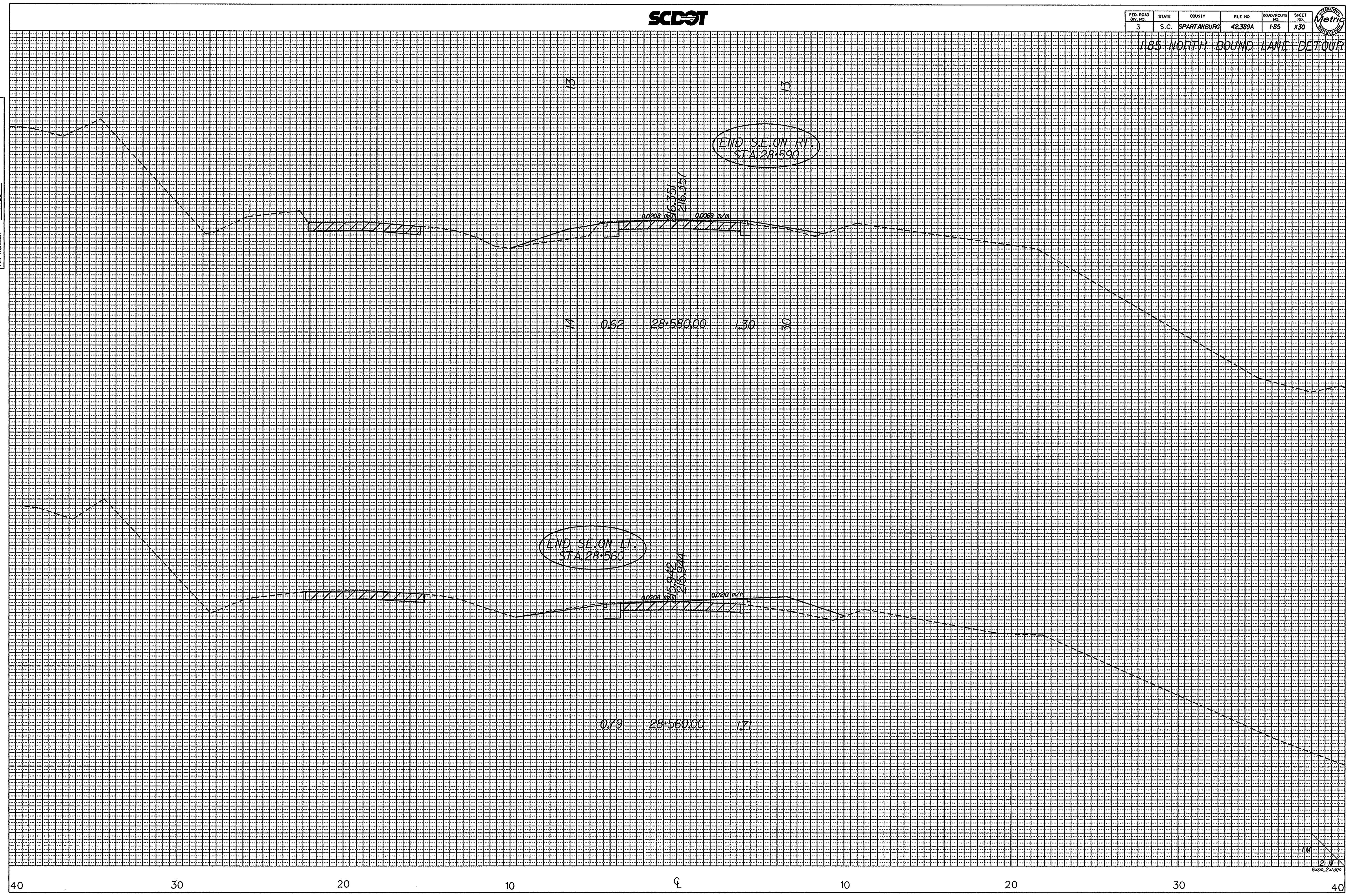
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 17-DEC-1996



FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X30

I-85 NORTH BOUND LANE DETOUR

DIRECTORY: MAUSER, 17735 / TRD/TX/DGN
 SOUND NUMBER: SUB DR. 17735 / TRD/TX/DGN
 XS BY NAME: C.W. MAC
 PIN NUMBER: 17735
 DATE: 10-2-1996



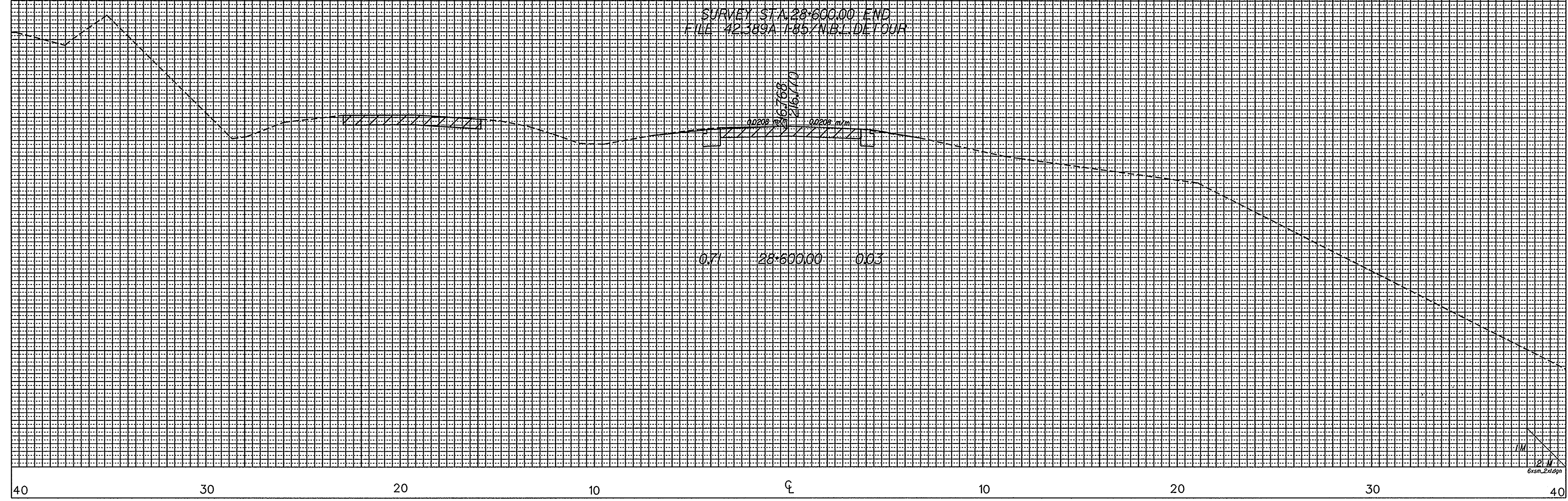
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 20-DEC-1996



FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X31

I-85 NORTH BOUND LANE DETOUR

DIRECTORY
 WANSER, 17735 / TRDETFLX.DGN
 SQUAD NUMBER 5887
 DESIGNED BY NAME MKC
 CHECKED BY NAME MKC
 DATE 12-15-96
 PIN NUMBER 17735



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 17-DEC-1996

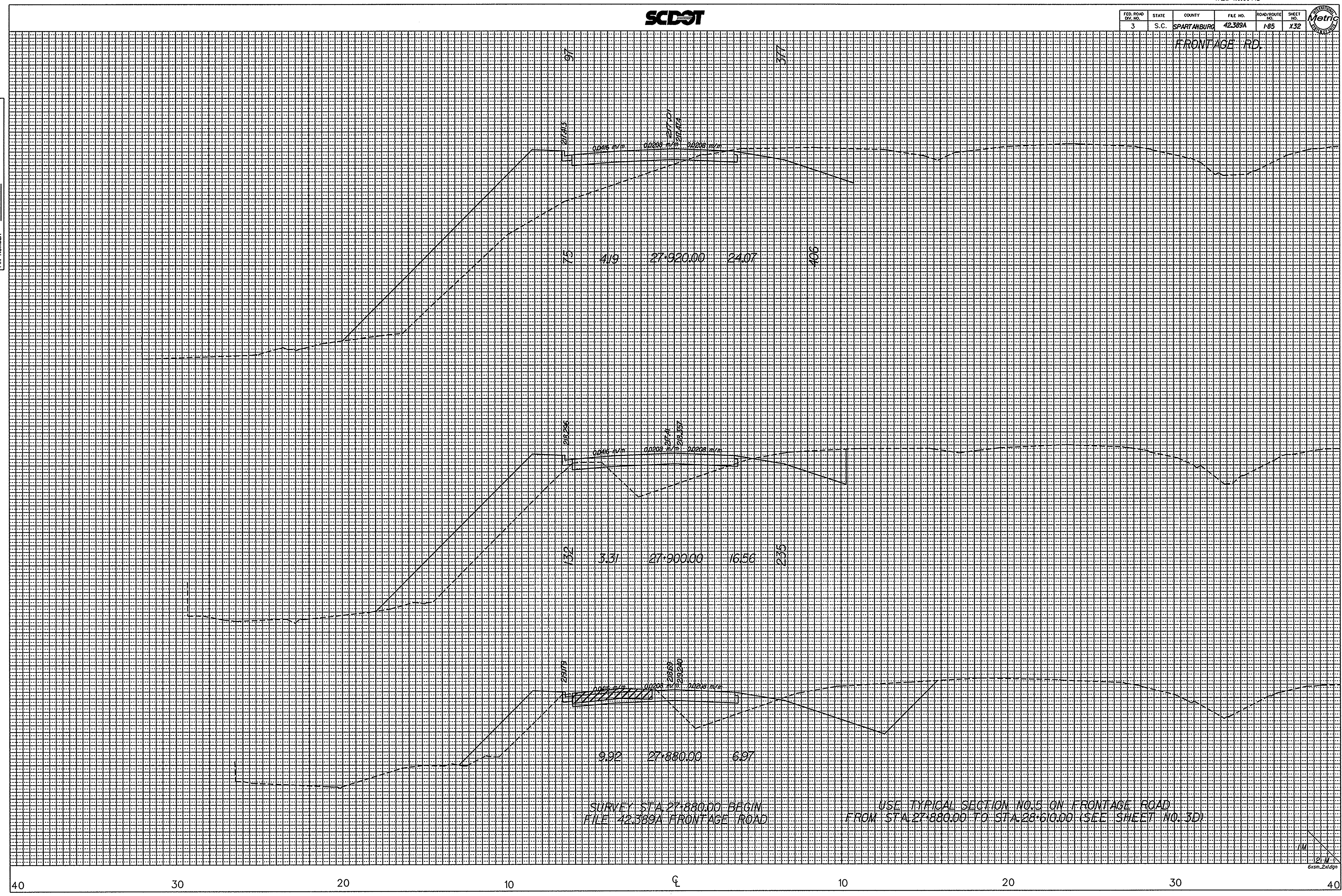
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 2/11
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X.32

FRONTAGE RD.

DIRECTORY
 MANISERY 17735 / NEWFRFX
 SQUAD NUMBER 538 OR
 SS BY NAME KAC DATE 08-30-96
 PIN NUMBER 17735



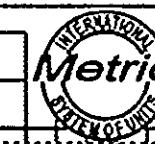
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 17-DEC-1996

SURVEY STA 27880.00 BEGIN
 FILE 42.389A FRONTAGE ROAD

USE TYPICAL SECTION NO. 15 ON FRONTAGE ROAD
 FROM STA 27880.00 TO STA 28610.00 (SEE SHEET NO. 3D)

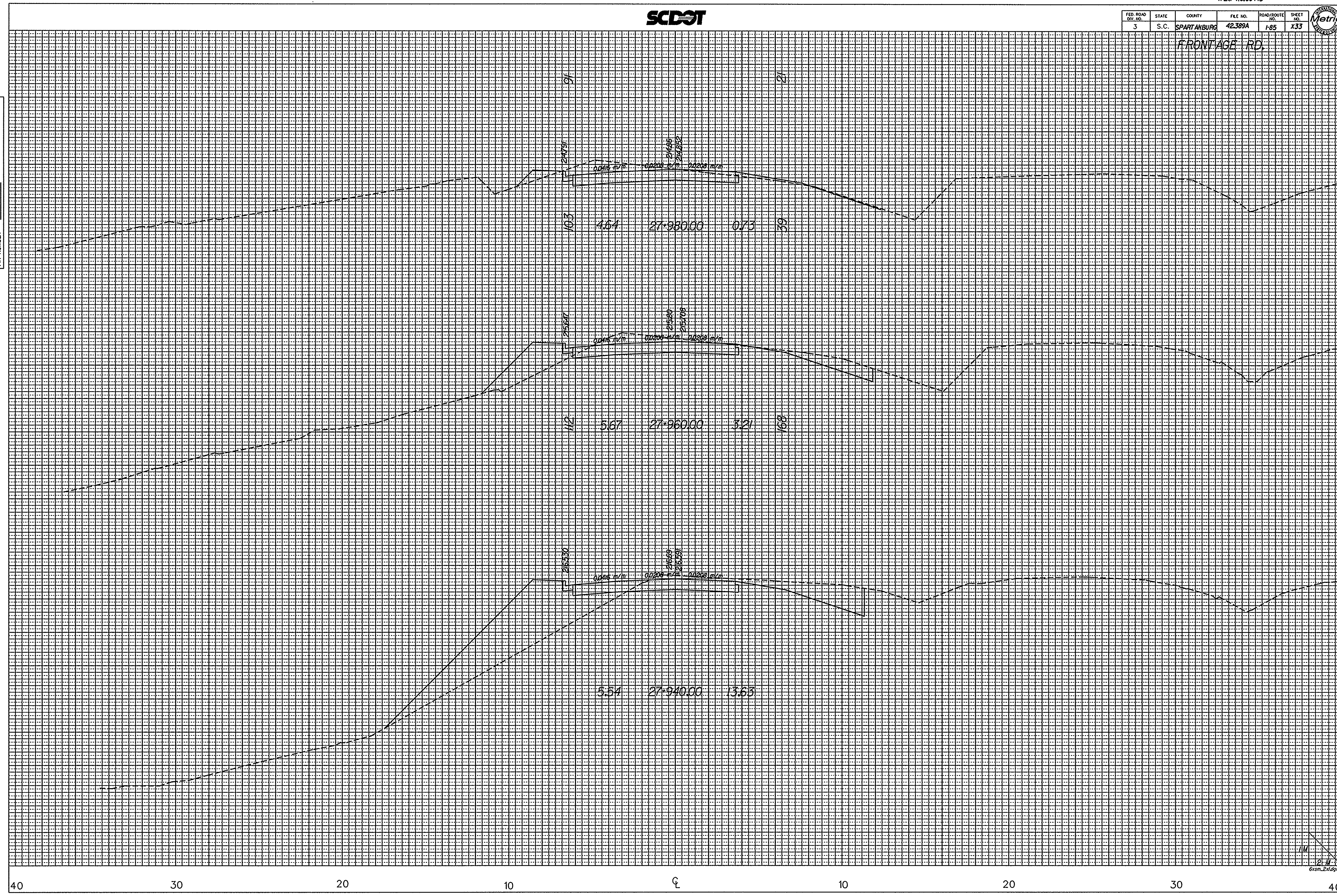
11/1
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X33



FRONTAGE RD.

DIRECTORY NUMBER 17735 / NEWERY
SOUND NUMBER 383
AS BY NAME M.A.C.
PIN NUMBER 7735
DATE 08-30-96



91

24474

10.3

4.64

27+980.00

0.73

3.9

91

25667

11.2

5.67

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3.21

1.88

91

26530

5.54

27+940.00

3.63

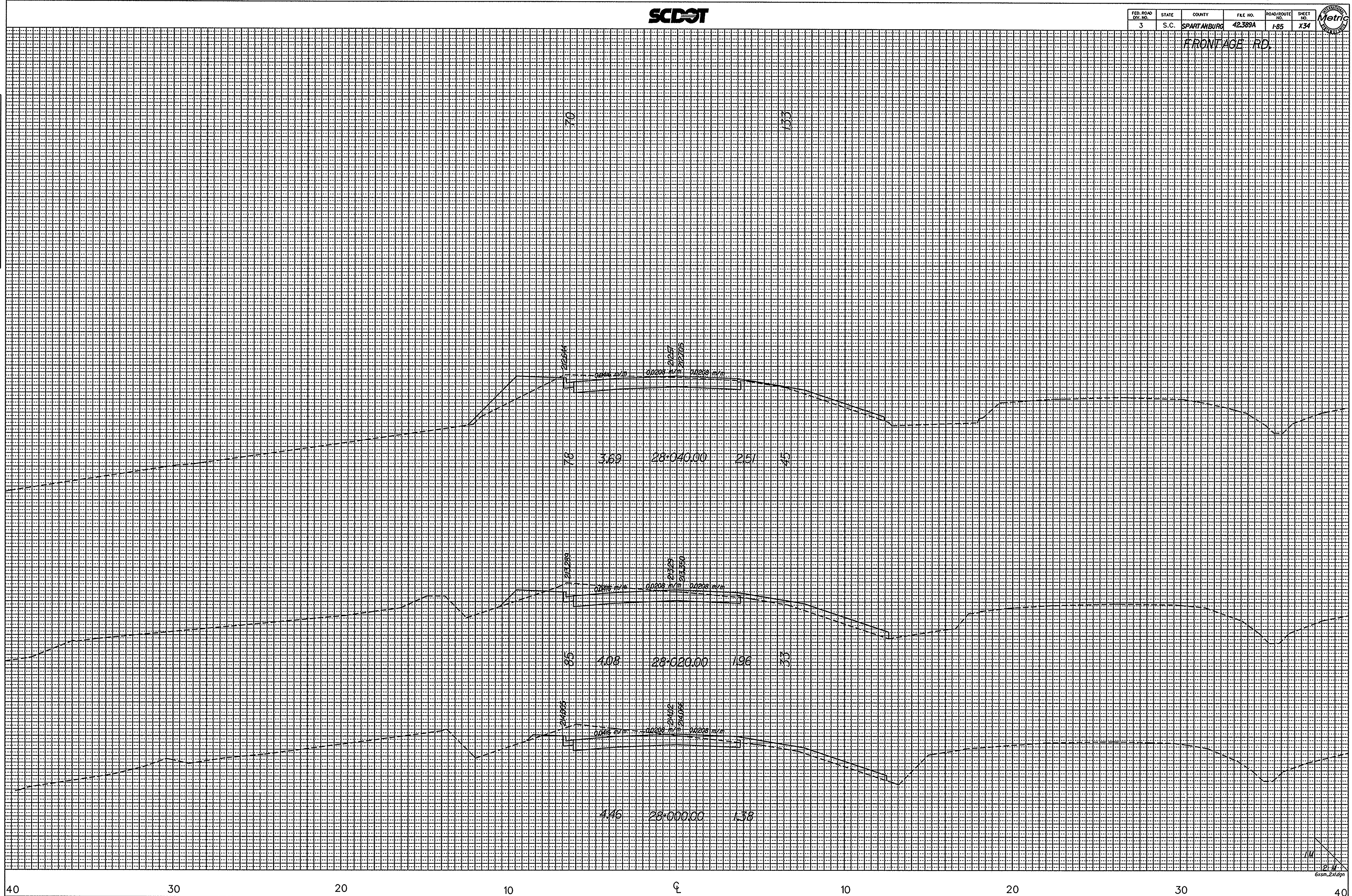
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17-DEC-1996

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12/16
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FED. ROAD DIST. NO.	STATE	COUNTY	FEE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X34

FRONTAGE RD.

DIRECTORY MANSERV, 17735 / MANSERV
SQUAD NUMBER 303 / SUB DIST. CH. F.
DESIGNED BY NAME MJC / DATE 08-30-96
PIN NUMBER 17735



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17-DEC-1996

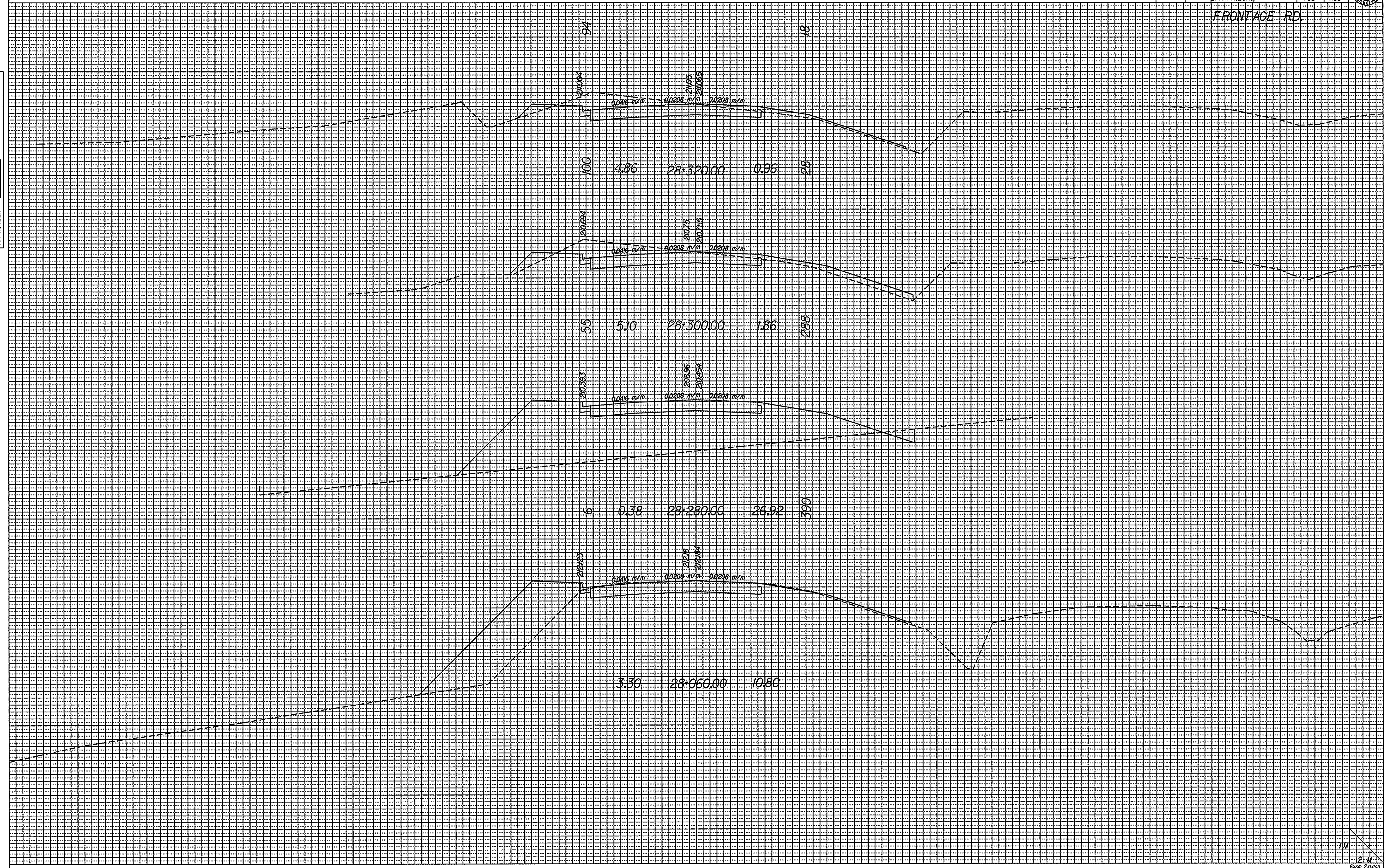
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1" = 2'
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X35

FRONTAGE RD.

DIRECTORY MANISERV 17735 / NEWFREY
 SQUAD NUMBER 3087 SUB NO. FILE NAME
 XS BY NAME TAC. INTMS DATE 08-30-96
 PIN NUMBER 7735



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 17-DEC-1996

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 6x10m 2x1/4in

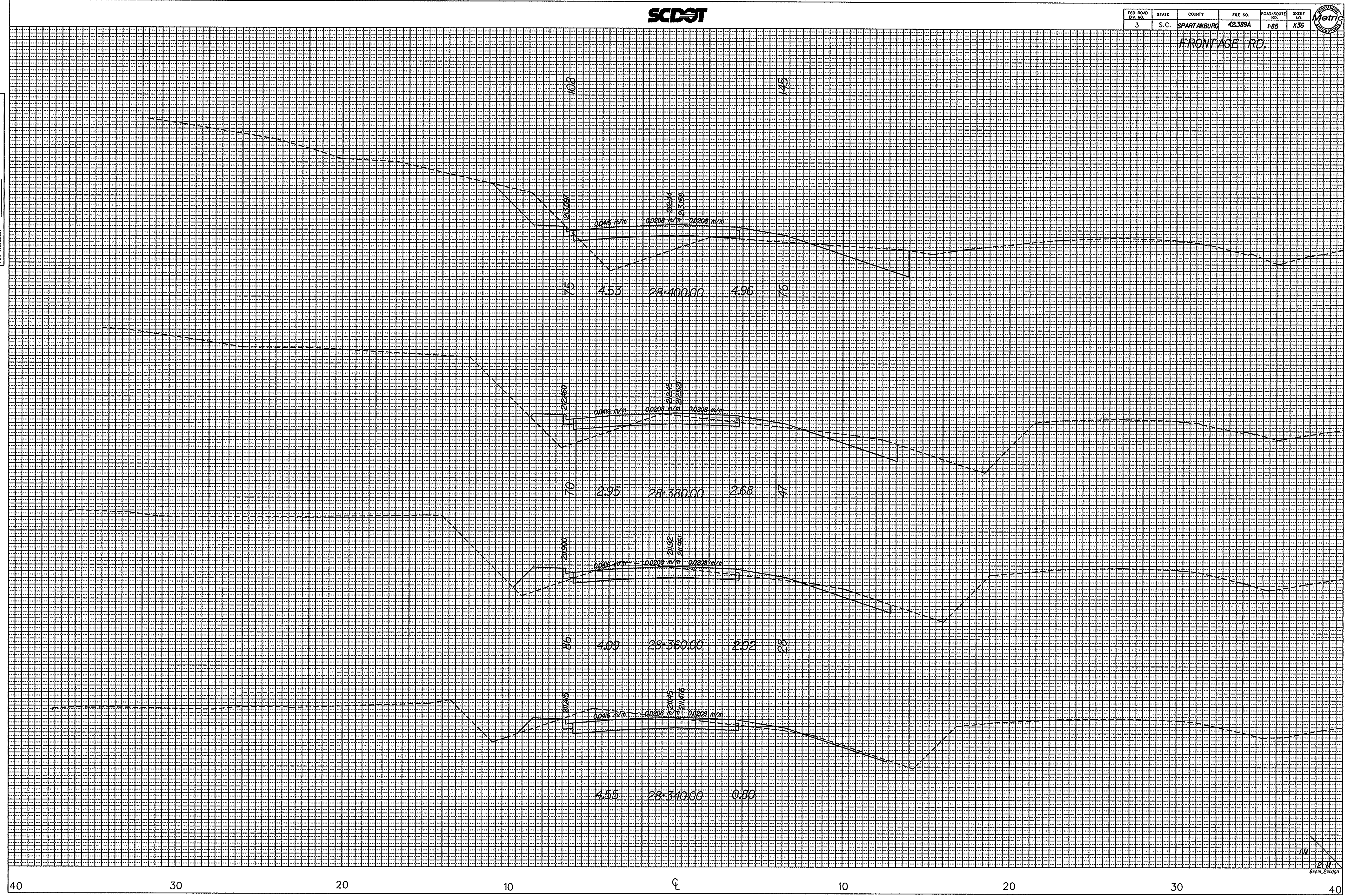


FED. ROAD DIV. NO.	STATE	COUNTY	FEE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X36



FRONTAGE RD.

DIRECTORY MANAGER: 17735 / NEWFRFX
 SQUAD NUMBER: 8878 SUB DR: 17735
 VS BY: NAME: M.C. DATE: 08-30-96
 PIN NUMBER: 17735



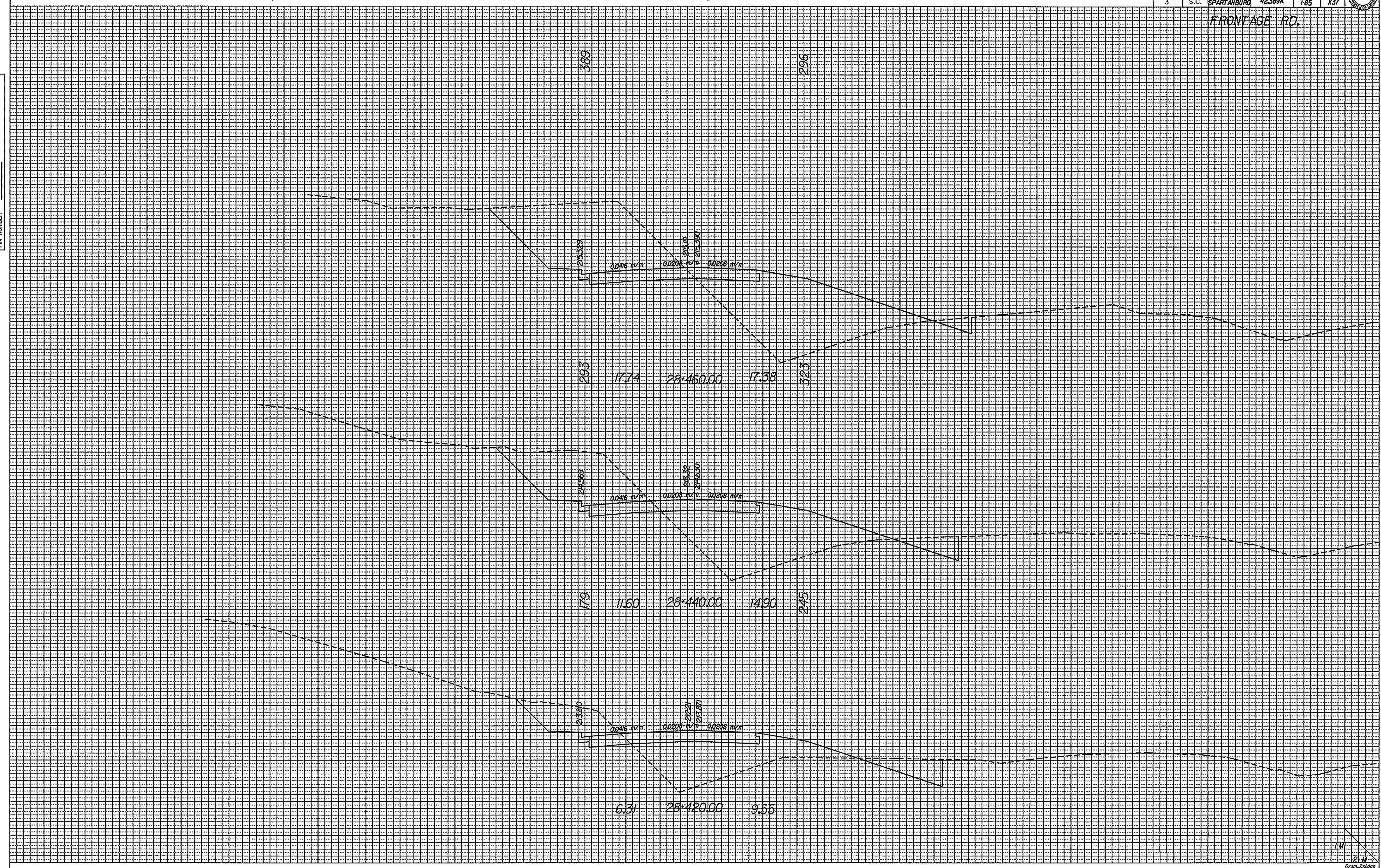
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 17-DEC-1996

JIM
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FED. ROAD DIST. NO.	STATE	COUNTY	F.E. NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X37

FRONTAGE RD.

DIRECTORY MAINSERV - 17735 / NEWFRFX
SERIAL SUB OR / NEWFRFX
SOUND NUMBER 3 / REVISE
DESIGN BY NAME MJC / DATE 08-30-96
PIN NUMBER 17735



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17-DEC-1996

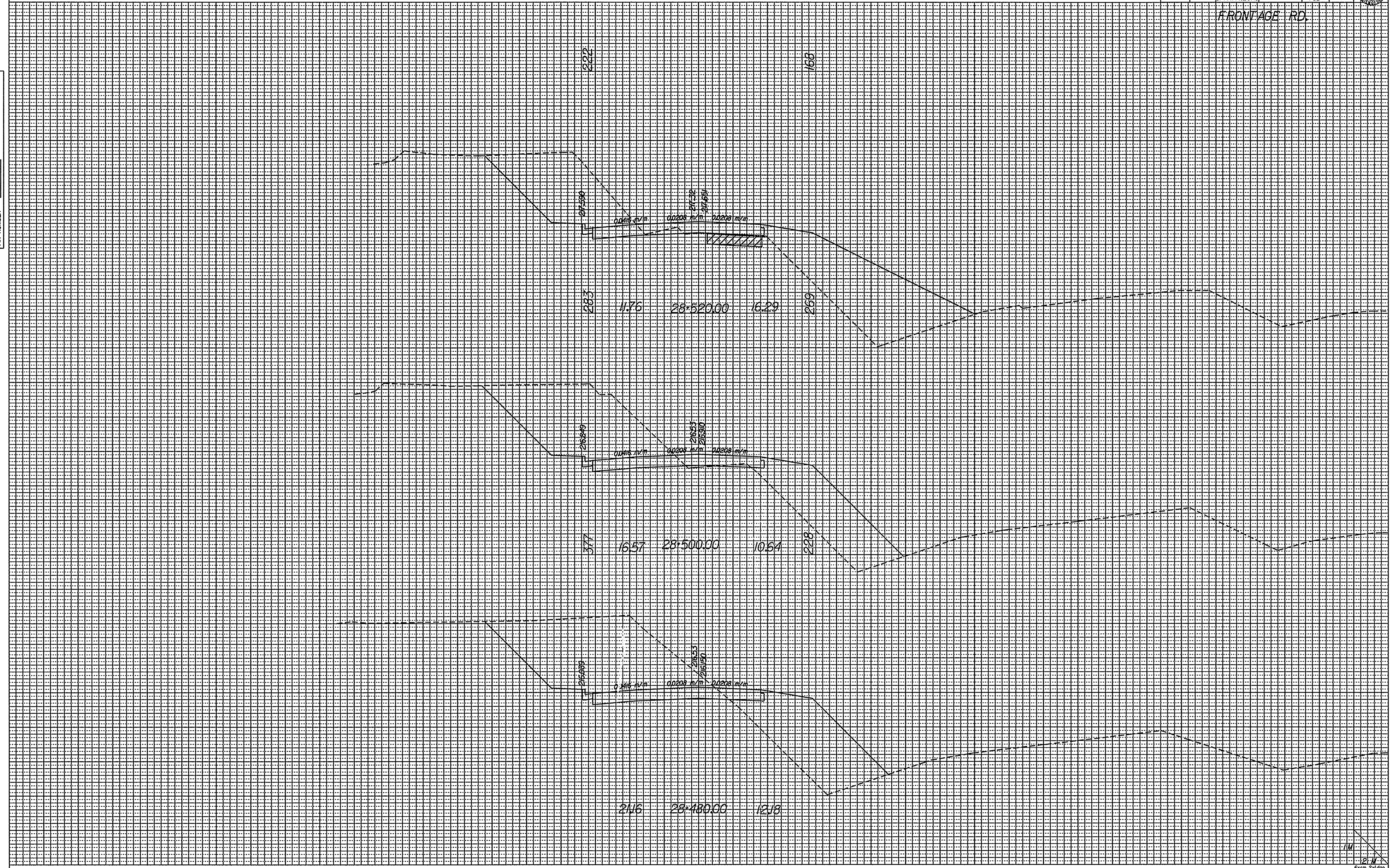
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FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X38

FRONTAGE RD.

DIRECTORY MANAGER: 17735 / NEWFRY
 SQUAD NUMBER: 303 / SURV. DATE: 08-30-96
 XS BY NAME: MAC / DATE: 08-30-96
 PIN NUMBER: 17735



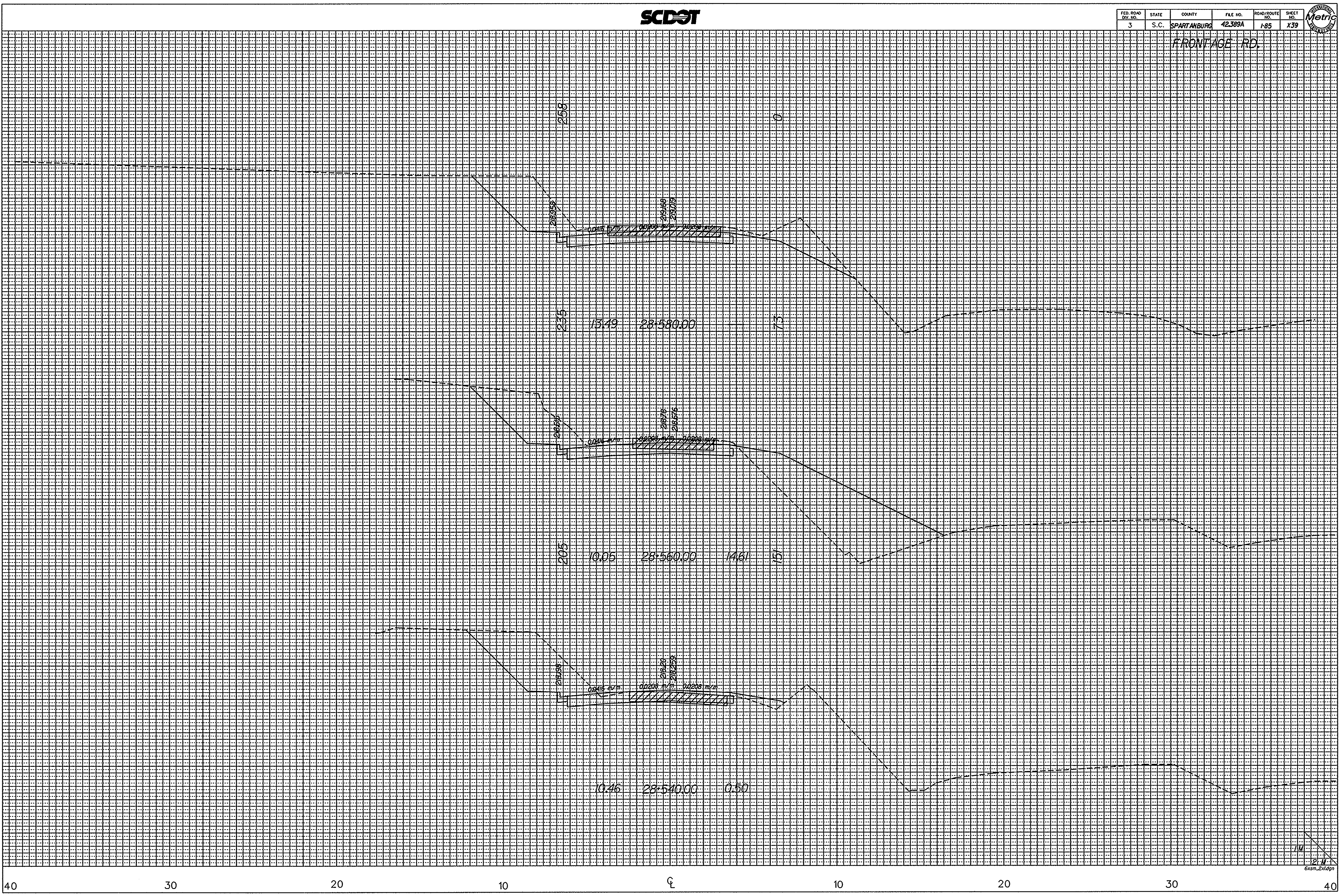
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 17-DEC-1996

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 2/11
 6/11
 2/11/96

FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42389A	I-85	X39

FRONTAGE RD.

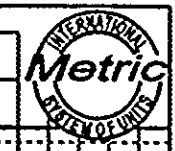
DIRECTORY MANAGER - 17735 / NEWFRFX
 SOUND NUMBER 5887 SUB DR. PLANE
 XS BY NAME M.C. DATE 08-30-96
 PIN NUMBER 17735



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 17-DEC-1996

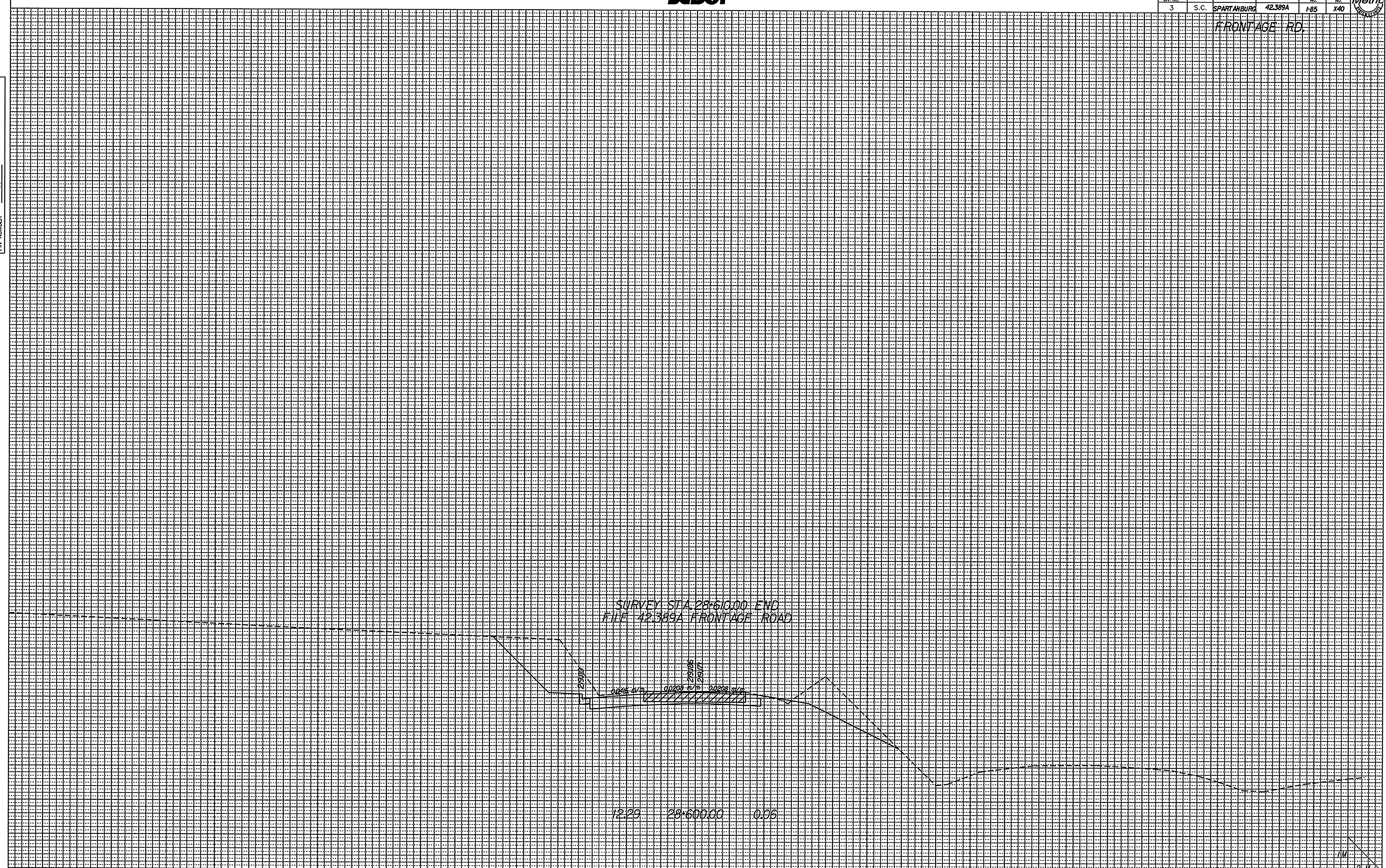


FED. ROAD DIST. NO.	STATE	COUNTY	FILE NO.	ROAD/ROUTE NO.	SHEET NO.
3	S.C.	SPARTANBURG	42.389A	I-85	X40



FRONTAGE RD.

DIRECTORY JANISERY - 17735 / NEWFRFX
 SQUAD NUMBER 388 DR. PLANE
 XS BY NAME M.A.C. INITIALS DATE 05/20/96
 PIN NUMBER 17735



041490
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 17-DEC-1996