

INDEX OF SHEETS

1	TITLE SHEET	12	TRAFFIC SIGN SUMMARY SHEET
2	PROJECT TYPICAL SHEET	13-15	BULLNOSE TREATMENT DETAIL SHEETS
3-4	BRIDGE LOCATION AND DETAIL SHEETS	16-17	MILLED RUMBLE STRIP DETAILS
5-6	QUANTITY SHEETS	18	RAMP DETAIL SHEET INTERCHANGE #17
7-9	ITEM DETAIL SUMMARY SHEETS	19	RAMP DETAIL SHEET INTERCHANGE #18
10	DITCH CLEANING DETAIL SHEET	20	DETAILS SHEET
11	PAVING PROJECT LAYOUT SHEET	21-22	CONSTRUCTION APPROACH SIGNING SHEETS

VAOT STANDARDS

B-17	DETAIL OF REST AREA, U-TURN, TURNOUTS	02-23-95
D-3	TREATED GUTTERS	06-01-94
D-6	REINFORCED CONCRETE DROP INLET W/ GRATE FOR USE IN DITCHES	06-01-94
D-9	REINFORCED CONCRETE DROP INLET W/ VERTICAL CURB REINFORCED CONCRETE DROP INLET THROAT ADAPTER	06-01-94
D-15	PRECAST REINFORCED CONCRETE CATCH BASIN W/ CAST IRON GRATE, PRECAST REINFORCED CONCRETE MANHOLE W/ CAST IRON COVER, CAST IRON GRATE W/ FRAME, TYPE D CAST IRON GRATE W/ FRAME, TYPE E CONCRETE CATCH BASIN	06-01-94
E-100	CONSTRUCTION APPROACH SIGNS	01-02-04
E-101	CONSTRUCTION SIGN DETAILS	05-30-03
E-102	CONSTRUCTION SIGN DETAILS	06-30-03
E-102A	CONSTRUCTION SIGN DETAILS	05-01-04
E-103	MAINLINE TRAFFIC CONTROL DIVIDED HIGHWAY - ONE LANE CLOSED	03-01-04
E-105	TRAFFIC CONTROL FOR CONSTRUCTION VEHICLES U-TURNS ON DIVIDED HIGHWAYS	05-01-04
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	03-01-04
E-107	DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS	06-30-03
E-107A	BREAKAWAY BARRICADE DETAILS	08-08-95
E-108	CONSTRUCTION ZONE LONGITUDINAL DROP OFFS	08-18-95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-08-95
E-111	MINOR MAINTENANCE OPERATION	03-11-97
E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	08-08-95
E-126	TYPICAL FREEWAY INTERCHANGE SIGNING	02-01-00
E-142	REGULATORY SIGN DETAILS	09-20-95
E-143	REGULATORY SIGN DETAILS	06-15-04
E-144	REGULATORY SIGN DETAILS	03-29-99
E-145A	REGULATORY SIGN DETAILS	12-23-94
E-146	REGULATORY SIGN DETAILS	09-20-95
E-150	WARNING SIGN DETAILS	05-01-04
E-151	WARNING SIGN DETAILS	05-01-04
E-160	FLANGED CHANNEL STEEL SIGN POST	05-20-99
E-164	SQUARE STEEL SIGN POST	05-20-99
E-172	VEHICLE DETECTOR LOOP DETAILS	08-09-95
E-191	PAVEMENT MARKING DETAILS	02-01-99
E-192	PAVEMENT MARKING DETAILS	10-12-00
E-193	PAVEMENT MARKING DETAILS	08-18-95
E-197	DELINEATOR PLACEMENT DETAIL	04-01-05
E-198	FREEWAY-EXPRESSWAY DELINEATORS AND MILEPOSTS	04-01-05
E-199	FREEWAY-EXPRESSWAY DELINEATORS AND MILEPOSTS MOUNTING ON BRIDGE RAIL	04-01-05
G-1	STEEL BEAM GUARD RAIL W/STEEL POSTS	01-03-00
G-1D	STEEL BEAM GUARD RAIL APPROACH END TERMINAL	01-03-00
G-19	GENERIC GRADING PLANS FOR GUARD RAIL END TERMINALS	11-15-02
PSF-3M	INSTALLATION OF PERMANENT SNOW FENCE ON BRIDGES WITH 3-RAIL ALUMINUM BRIDGE RAIL	07-10-97

STATE OF VERMONT
AGENCY OF TRANSPORTATION

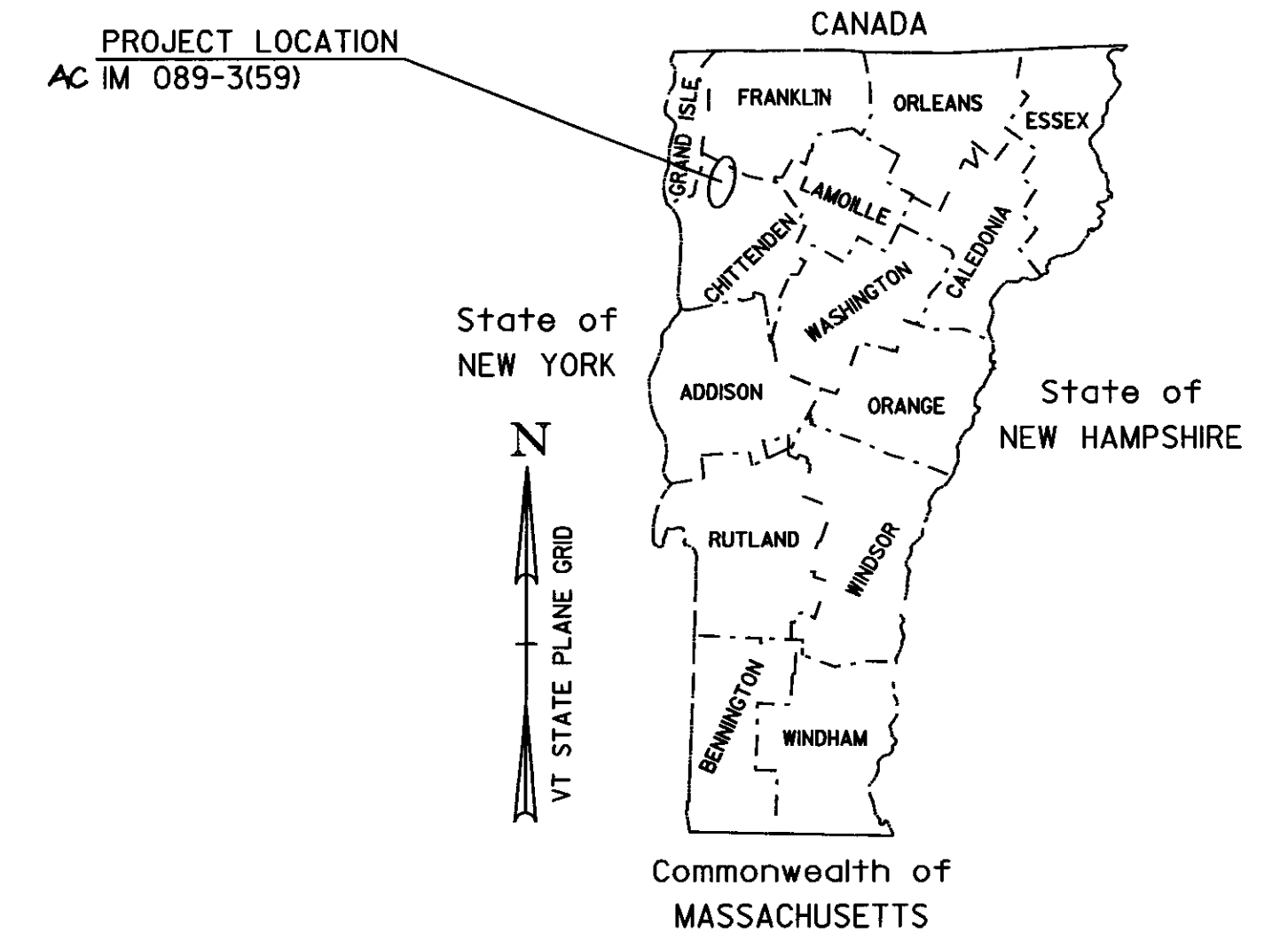
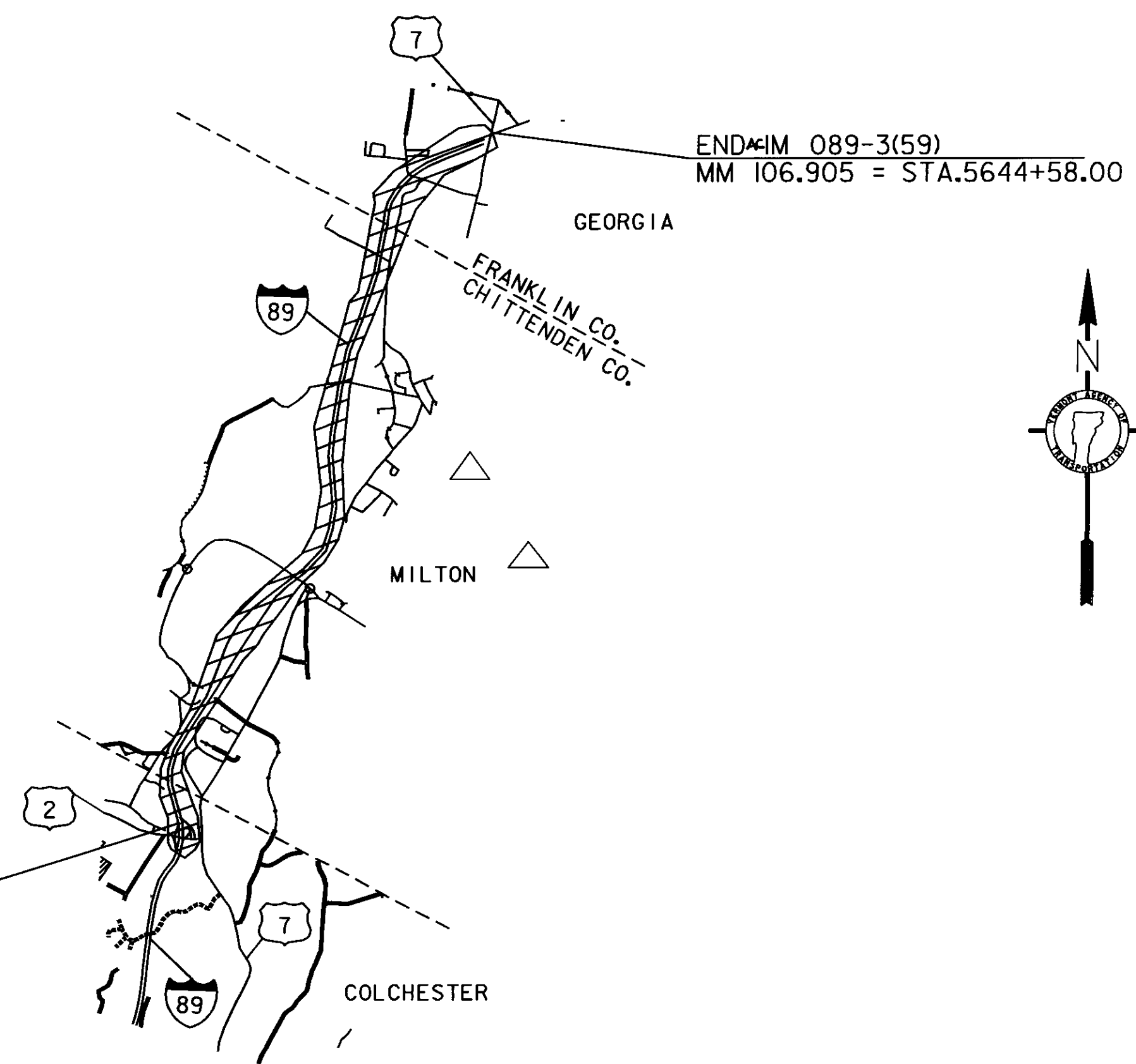


PROPOSED IMPROVEMENT
TOWNS OF COLCHESTER, MILTON,
AND GEORGIA
COUNTIES OF CHITTENDEN AND FRANKLIN
INTERSTATE ROUTE 89 (SB)

BEGINNING IN THE TOWN OF COLCHESTER AT MILE MARKER 98.000 = STA. 5174+40.00 AND EXTENDING NORTHERLY ALONG INTERSTATE ROUTE 89 FOR A DISTANCE OF 47,018 FT (8.90 MILES) TO AN ENDING POINT AT MILE MARKER 106.905 = STA. 5644+58.00

LENGTH OF ROADWAY 47,018.00 FT (8.90 MILES)
LENGTH OF PROJECT 47,018.00 FT (8.90 MILES)

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING, RESURFACING WITH A LEVELING COURSE AND WEARING COURSE; NEW PAVEMENT MARKINGS; NEW SIGNS; GUARDRAIL IMPROVEMENTS; DRAINAGE IMPROVEMENTS AND INCIDENTAL ITEMS. WORK INCLUDES SOUTHBOUND MAINLINE AND U-TURN IMPROVEMENTS AS WELL AS THE EXIT 17 SOUTHBOUND RAMPS B, A, AND F AND EXIT 18 SOUTHBOUND RAMPS C AND D.



**BITUMINOUS CONCRETE PAVEMENT
SUPERPAVE MIXTURE DESIGN CRITERIA**

DESIGN LANE / DESIGN LIFE ESAL	14,746,000
DESIGN NUMBER OF GYRATIONS	100
PERFORMANCE GRADE ASPHALT BINDER	PG 64-28

TRAFFIC DATA

SECTION	ADT		DHV		ESAL'S (2006-2016)	ESAL'S (2006-2026)
	2006	2016	2006	2016		
MM 98.000 TO MM 106.550	10700	12900	1400	1700	5,240,000	14,746,000
MM 106.550 TO MM 106.900	9400	11400	1200	1500	4,621,000	13,043,000

CONVENTIONAL SYMBOLS

COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

DuBois & King INC.

engineering planning management development

DATUM

VERTICAL N/A

HORIZONTAL N/A

RECORD PLANS

CONTRACTOR: PIKE INDUSTRIES, INC - BERLIN, VT

RESIDENT ENGINEER: DELVIN WARNER

CONSTRUCTION BEGAN: APRIL 7, 2006

CONSTRUCTION COMPLETE: JULY 15, 2006

RECORD PLANS BY: DELVIN WARNER & MIKE BOOTH

I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN

BY: *Delvin Warner* RESIDENT ENGINEER

DATE: 04/30/09

NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATOR

APPROVED: *Mark D. Woolaver* DATE 1-24-06

DIRECTOR OF PROGRAM DEVELOPMENT

APPROVED: *John F. Feltus* DATE 1-3-06

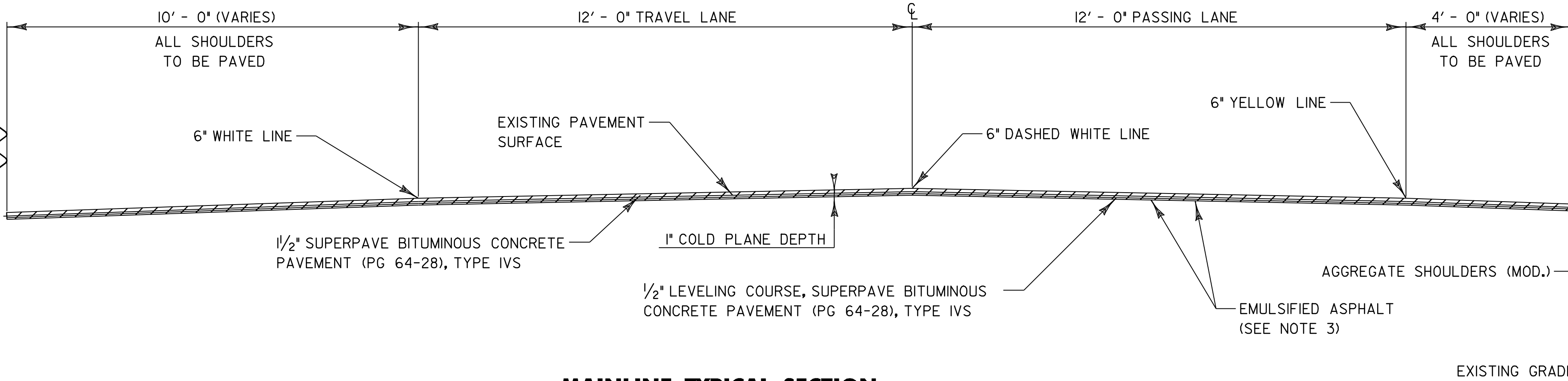
PROJECT MANAGER: MARK WOOLAVER

PROJECT NAME: COLCHESTER - GEORGIA

PROJECT NUMBER: AC IM 089-3 (59)

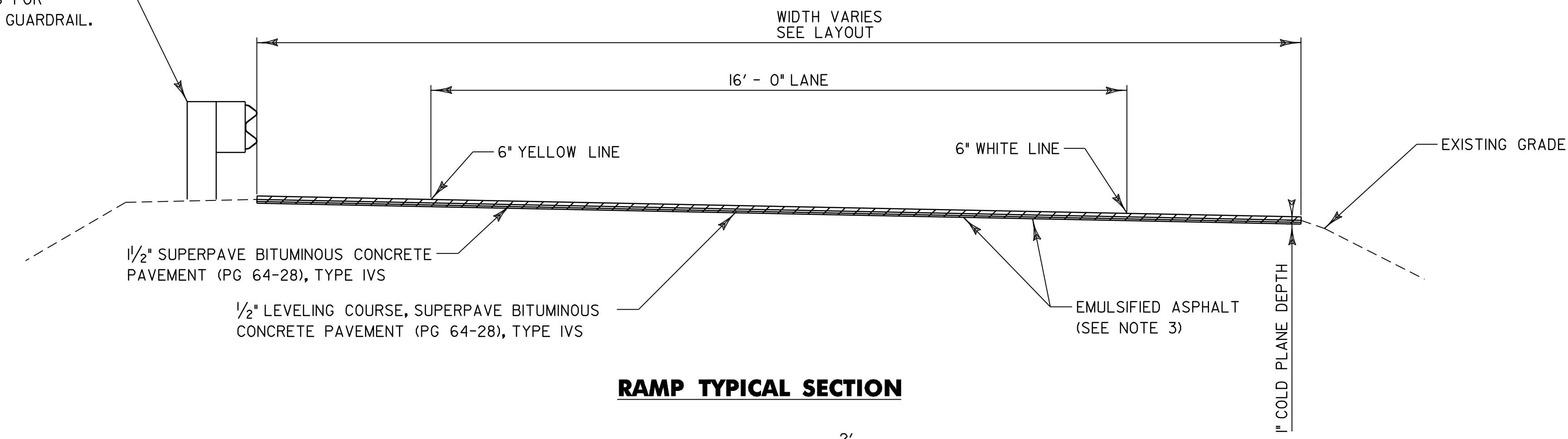
SHEET 1 OF 22 SHEETS

SEE LAYOUT AND ITEM
DETAIL SHEETS FOR
LOCATIONS OF GUARDRAIL



MAINLINE TYPICAL SECTION

SEE LAYOUT AND ITEM
DETAIL SHEETS FOR
LOCATIONS OF GUARDRAIL.



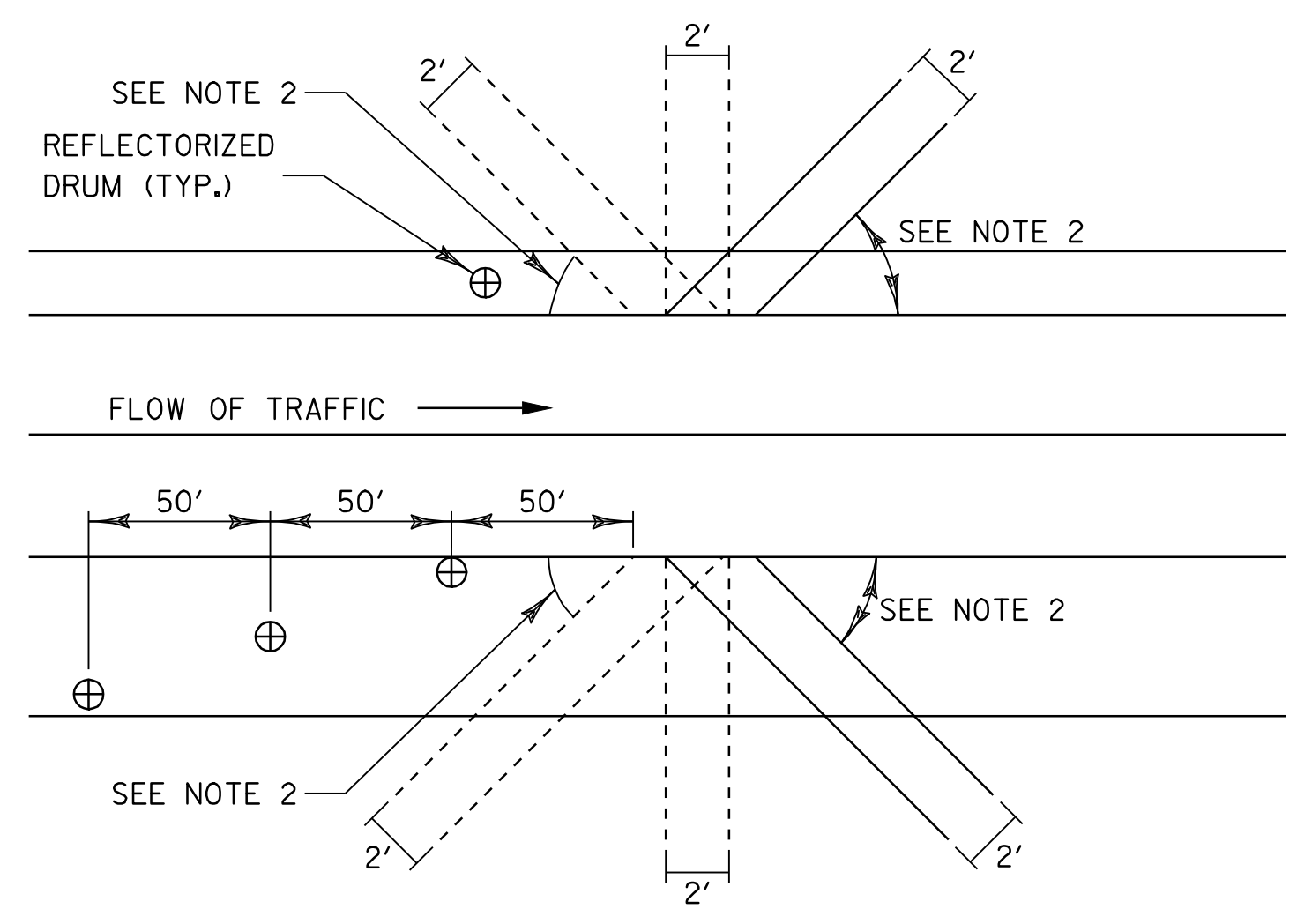
RAMP TYPICAL SECTION

**SEEDING FORMULA
RURAL AREAS**

% WT.	LBS./A.	NAME	PUR %	GERM %
37.5	22.5	CREeping RED FESCUE	98	85
37.5	22.5	TALL FESCUE	95	90
5.0	3.0	RED TOP	95	90
15.0	9.0	BIRDSFOOT TREFOIL	98	85
5.0	3.0	ANNUAL RYEGRASS	95	85
100.0	60.0			

GENERAL NOTES

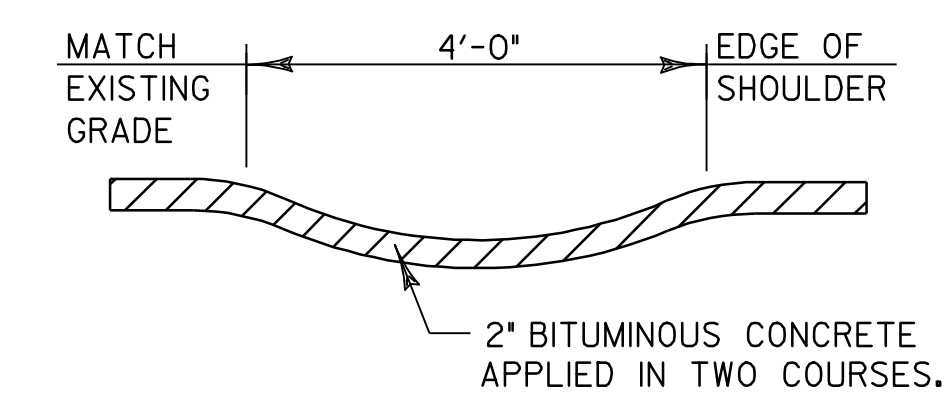
- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.
- FERTILIZER: FORMULA 10-20-10, TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
- AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
- HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- YIELDING MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.



BLEEDER DETAIL

BLEEDER DETAIL NOTES:

- BLEEDERS ARE TO BE CUT WHILE COLD PLANING, AT LOCATIONS SPECIFIED BY THE RESIDENT ENGINEER.
- ANGLE BLEEDERS TO BEST ACCEPT WATER FLOW.
- CUT ALL BLEEDERS TO THE DEPTH OF COLD PLANING AND GRADE TO DRAIN. PAYMENT INCIDENTAL TO ITEM 210.10.
- BLEEDERS ARE TO BE FILLED DURING PAVING WITH ITEM 490.30 OR AS DESIGNATED BY THE RESIDENT ENGINEER.
- REFLECTORIZED DRUMS MUST BE PLACED AS SHOWN TO WARN MOTORISTS OF THE GAP IN THE SHOULDER.
- BLEEDERS ARE NOT REQUIRED IF THE COLD PLANED AREAS ARE PAVED BACK THE SAME DAY.



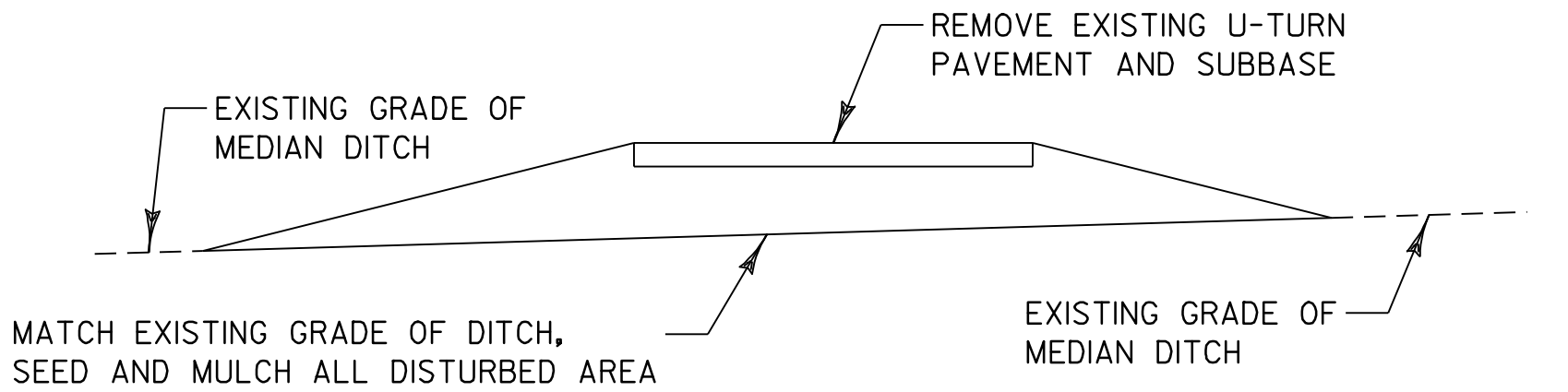
BITUMINOUS CONCRETE GUTTER DETAIL

EXIT 18 STA. 4+25 RAMP D
EXIT 18 STA. 7+25 RAMP D

DETAILS ARE NOT TO SCALE

NOTES:

- COLD PLANING TO BE COMPLETED ACCORDING TO THE TYPICAL OR AS NOTED OTHERWISE ON THE PLANS. A FULL DEPTH BUTT JOINT SHALL BE CONSTRUCTED AT THE PROJECT BEGINNING/END AND AT ALL RAMP APPROACHES AS DENOTED ON THE PROJECT PLANS OR AS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL USE CAUTION WHEN COLD PLANING AND PAVING OPERATIONS OCCUR ADJACENT TO EXISTING DROP INLETS OR CATCH BASINS. ANY DAMAGE WHICH OCCURS TO THESE DRAINAGE STRUCTURES AS A RESULT OF THESE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE OF VERMONT.
- EMULSIFIED ASPHALT SHALL BE APPLIED ON ALL EXISTING PAVEMENT SURFACES, ON ALL COLD PLANED SURFACES AND BETWEEN ALL COURSES OF PAVEMENT AT A RATE OF 0.015 GAL / SY OR AS DIRECTED BY THE RESIDENT ENGINEER.
- SUPERPAVE BITUMINOUS CONCRETE PAVEMENT TOLERANCE = +/- 1/4 INCH (TOTAL PAVEMENT THICKNESS EXCLUDING LEVELING).
- ALL EDGES OF PAVEMENT SHALL BE BACKED UP FULL HEIGHT WITH COLD PLANE GRINDINGS AS DIRECTED BY THE RESIDENT ENGINEER AND WILL BE PAID FOR UNDER ITEM 402.12, "AGGREGATE SHOULDERS (MOD.)".
- THREE FEET OF BACKING IS REQUIRED BEHIND THE FACE OF GUARDRAIL WITH 6 FOOT POSTS. IF THIS CANNOT BE OBTAINED THEN 8 FOOT POSTS SHALL BE USED.
- ESTIMATED QUANTITIES OF ITEM 608.25, "EXCAVATOR RENTAL", AND 608.37, "TRUCK RENTAL", HAVE BEEN INCLUDED FOR THE PROVISION OF CONSTRUCTING GUARD RAIL END SECTIONS WITH EXCAVATED DITCHING MATERIAL. IF SUFFICIENT DITCHING MATERIAL IS NOT AVAILABLE, ITEM 203.30, "EARTH BORROW" WILL BE USED. THE GUARD RAIL END SECTIONS SHALL BE CAPPED WITH AN ESTIMATED 3-INCH DEPTH OF AGGREGATE SHOULDERS (MOD.) UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE QUANTITIES INCLUDED REFLECT 5 TONS OF AGGREGATE SHOULDERS (MOD.) FOR EACH GUARD RAIL TERMINAL AND 25 CY OF EARTH BORROW.
- BITUMINOUS CONCRETE PAVEMENT WORK WHICH COULD INVOLVE SOME HAND-WORK (SUCH AS SIDE ROAD APPROACHES AND AROUND DRAINAGE AND UTILITY STRUCTURES) SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR ITEM 490.30, "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28)".
- AREAS ADJACENT TO THE SHOULDER, WHERE EXISTING GUARDRAIL IS BEING RETAINED, THAT HAVE BUILT UP EXCESS MATERIAL ARE TO BE GRADED IN ORDER TO ALLOW THE SHOULDER TO DRAIN. PAYMENT IS TO BE INCLUDED UNDER ITEM 203.99, "SHOULDER BERM REMOVAL".
- PAVED GUTTERS WITHIN THE PROJECT AREA ARE TO BE OVERLAID. THIS SHALL BE PAID FOR INCIDENTAL TO ITEM 490.30 "SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (PG 64-28)", AND TO BE CONSTRUCTED AS SHOWN ON THE DETAIL ON THIS SHEET.
- ALL DELINEATORS WITHIN THE PROJECT AREA ARE TO BE REPLACED. THESE ARE TO BE PAID FOR UNDER ITEM 676.10, "DELINEATORS W/ STEEL POSTS".



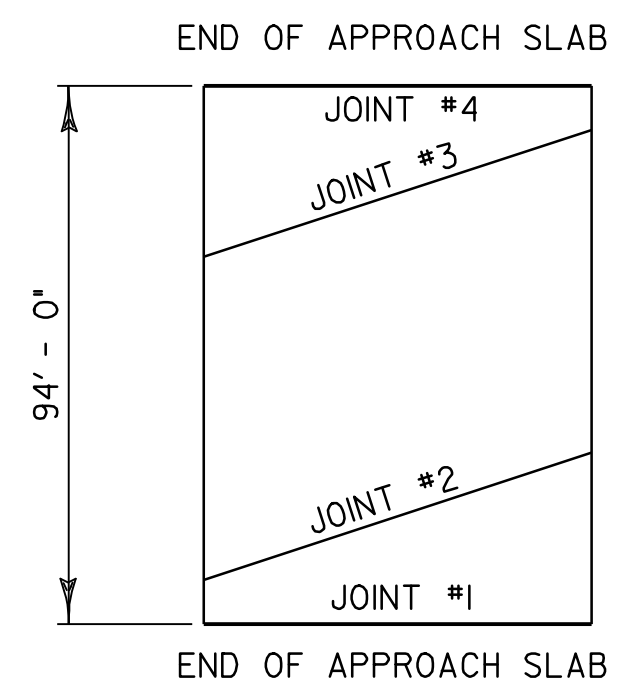
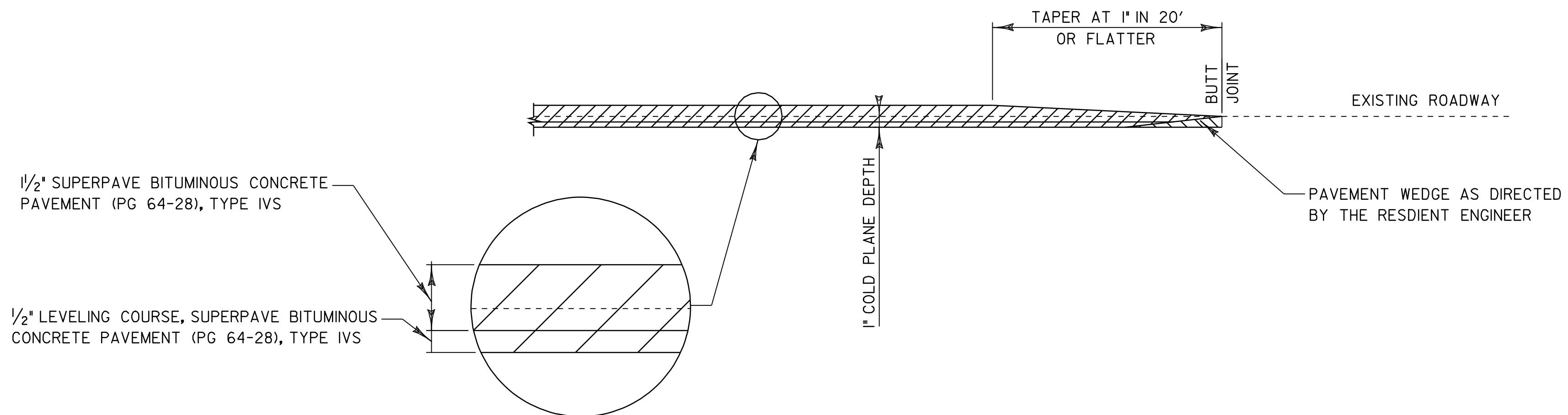
U-TURN REMOVAL DETAIL (SB MM 101.577 / 5363+26.56)

U-TURN NOTES:

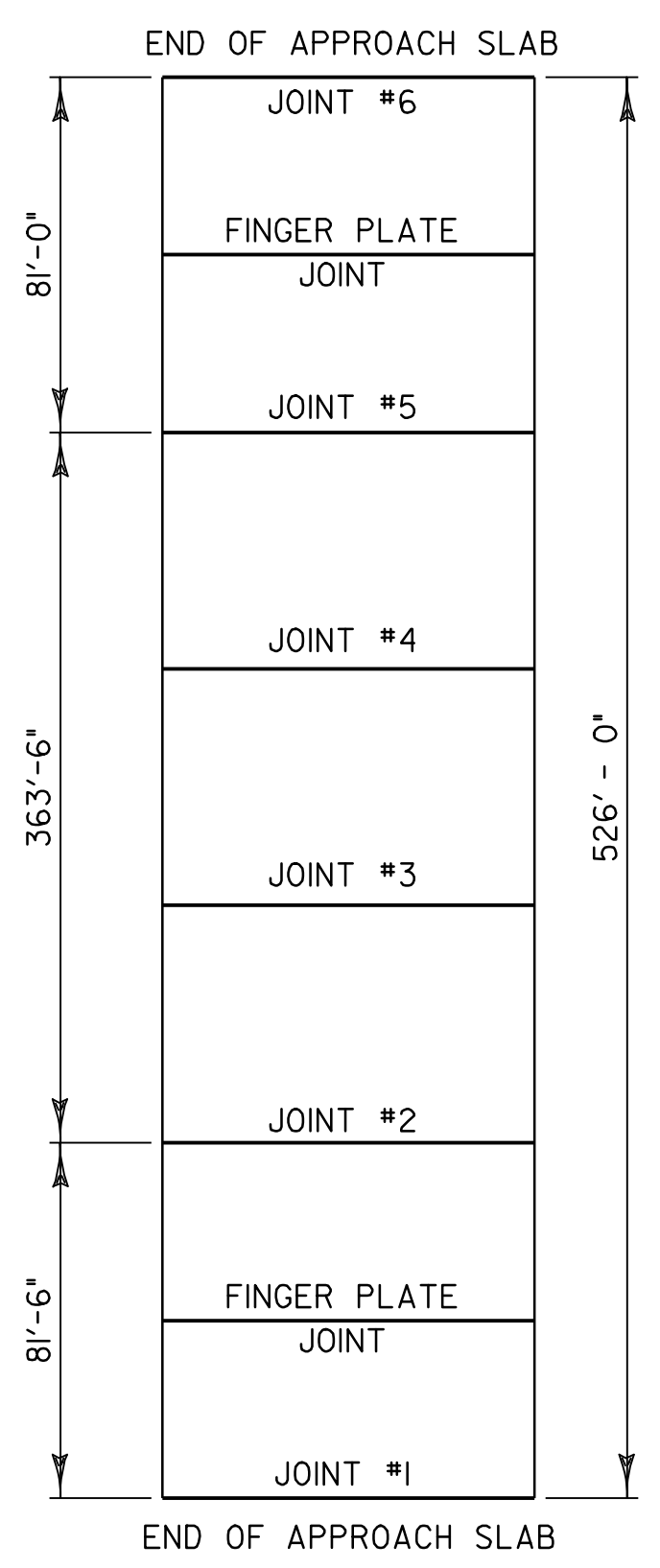
- REMOVE PAVEMENT AND SUBBASE OF THE EXISTING U-TURN TO MATCH THE GRADE OF THE EXISTING MEDIAN DITCH.
- PAYMENT TO REMOVE THE EXISTING PAVEMENT AND SUBBASE SHALL BE MADE UNDER ITEM 203.15, "COMMON EXCAVATION".
- THE CONTRACTOR SHALL SAW CUT THE PAVEMENT AT THE EDGE OF THE NB AND SB SHOULDERS PRIOR TO EXCAVATING. THE COST OF SAW CUTTING SHALL BE INCIDENTAL TO ITEM 203.15. EXISTING MATERIAL DEEMED SUITABLE BY THE RESIDENT ENGINEER SHALL BE USED AS SUBBASE MATERIAL TO CONSTRUCT THE NEW U-TURN AT MM 101.055. PAYMENT FOR THE USE OF ANY REMOVED MATERIAL FOR THE PURPOSE OF CONSTRUCTING THE NEW U-TURN WILL BE THE AMOUNT OF IN-PLACE MATERIAL REMOVED AND USED MULTIPLIED BY A FACTOR OF 1.15.
- ITEM 651.35, "TOPSOIL", WILL BE SPREAD 6" THICK AFTER U-TURN IS EXCAVATED.

**PROJECT
TYPICAL
SHEET**

PROJECT NAME: COLCHESTER - GEORGIA	PLOT DATE: 12-OCT-2010 16:38
PROJECT NUMBER: IM 089-3(59)	DRAWN BY: RHB/SJB
FILE NAME: p04g030.DGN	CHECKED BY: EPD
PROJECT LEADER: EPD	SHEET 2 OF 22
DESIGNED BY: JDA	
PLOT FILE:	

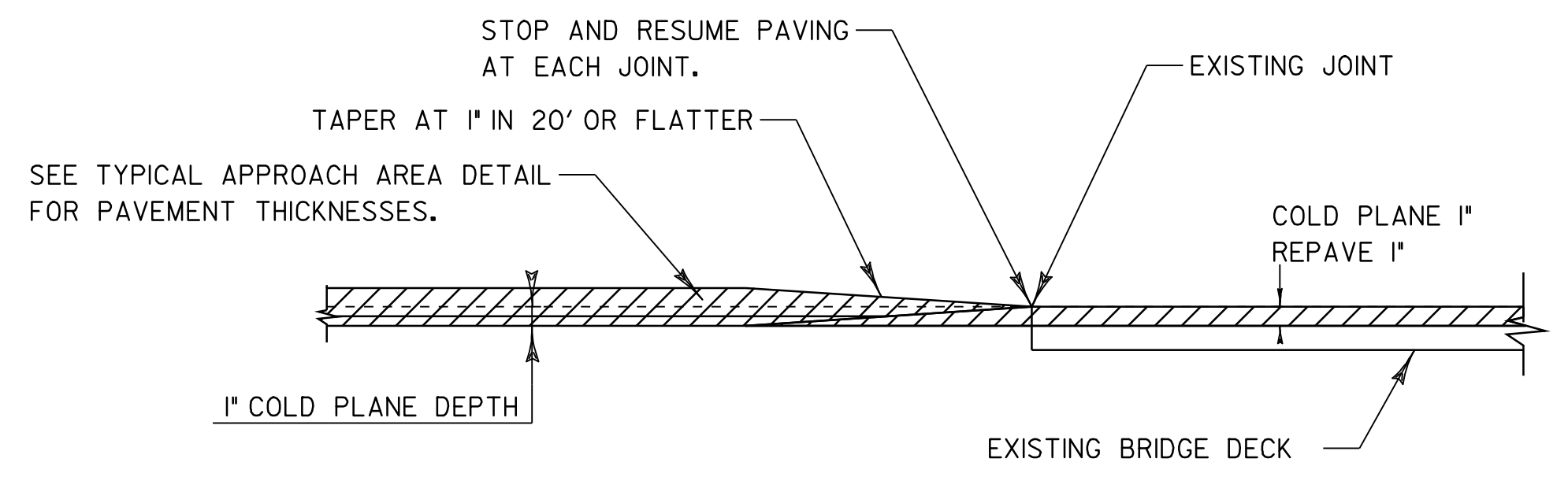


JOINT	STATION	LENGTH
1	5578+93	4' - 10"
2	5579+18	44' - 6"
3	5579+62	44' - 6"
4	5579+87	4' - 10"
BRIDGE #84S		172' - 8"
TOTAL LENGTH OF JOINT		



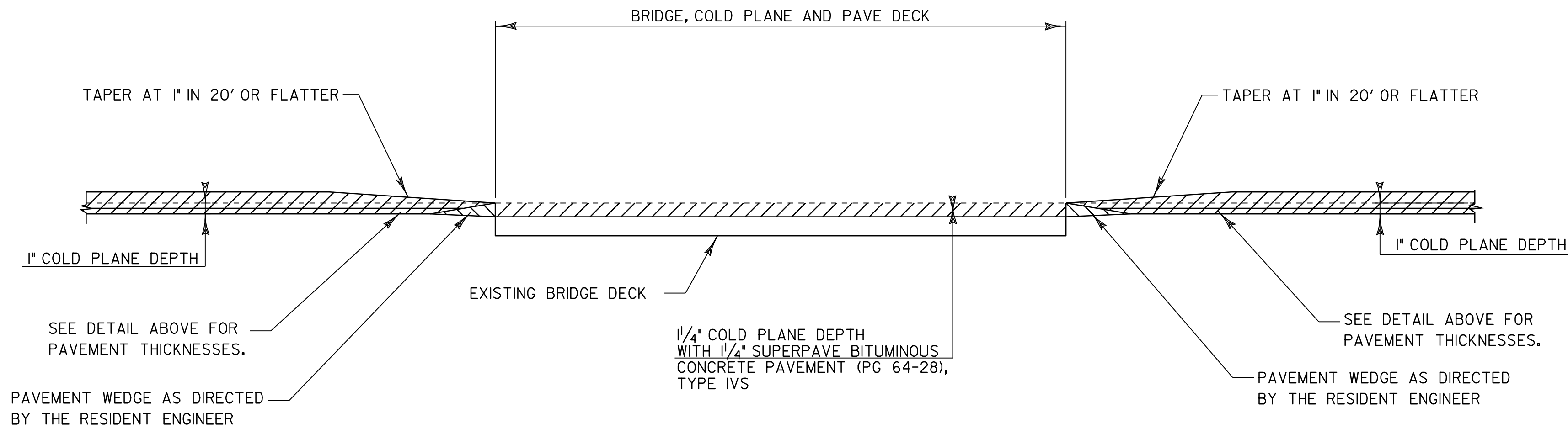
JOINT	STATION	LENGTH
1	5363+78.0	35' - 4"
2	5364+59.5	
3	5365+80.7	
4	5367+01.9	
5	5368+23.1	
6	5369+04.1	35' - 4"
BRIDGE #81S		75' - 8"
TOTAL LENGTH OF JOINT		

JOINTS 2, 3, 4, AND 5 ARE VERTICAL PLATE JOINTS AND, THEREFORE, DO NOT REQUIRE ASPHALTIC PLUG JOINTS.



BRIDGE #81S
STA. 5366+18.00 (MM 101.632)
COLD PLANE AND PAVE

BRIDGE NO. 81S DETAIL
LOCATION
STA. 5366+18.00 (MM 101.632)



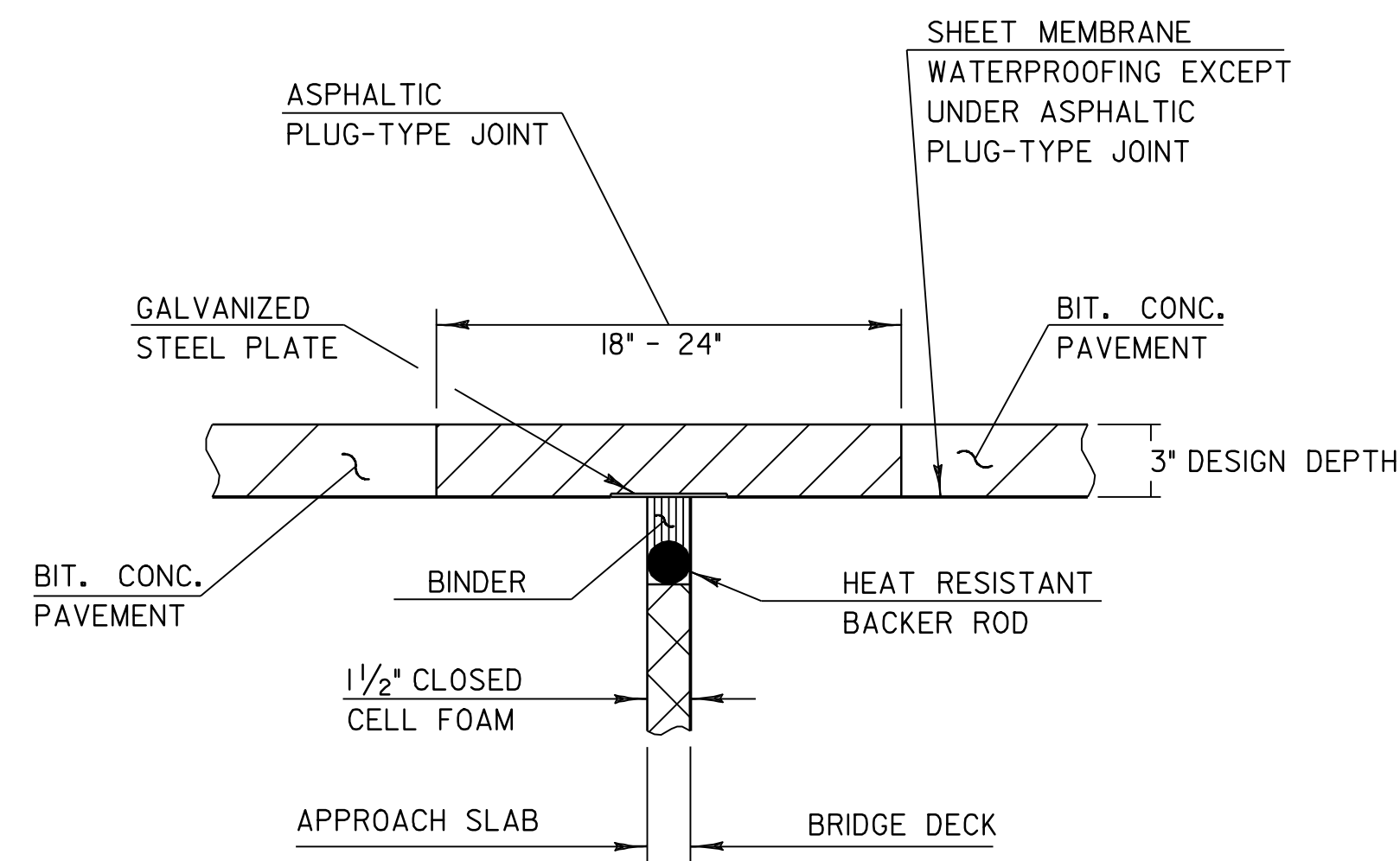
BRIDGE NO. 84S COLD PLANE DETAIL
LOCATION
STA. 5579+40.00 (MM 105.670)

NOTES:

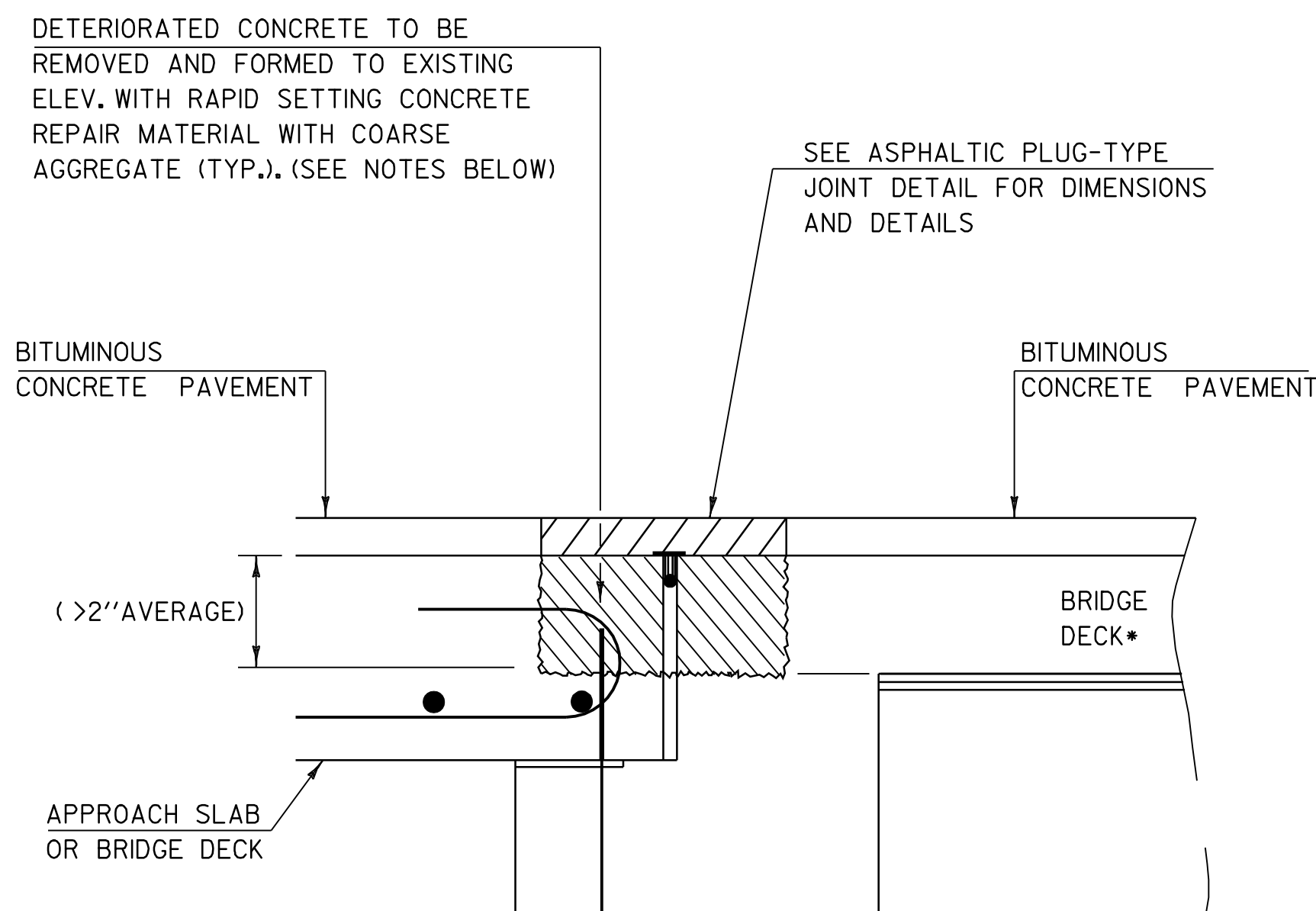
- REFER TO SHEET 4 FOR ASPHALTIC PLUG JOINT AND DETAILS. ALL NEW JOINTS TO BE PAID FOR UNDER ITEM 516.10, "BRIDGE EXPANSION JOINT (ASPHALTIC PLUG)".
- BRIDGE #81S HAS DROP INLET AND/OR DOWNSPOUT OPENINGS LOCATED AT THE CURB LINE. THESE DRAINAGE OPENINGS WILL NOT REQUIRE REHABILITATION OR HEIGHT ADJUSTMENT.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID THE ACCUMULATION OF DEBRIS IN THE DRAINAGE STRUCTURES LOCATED AT CURB LINE AND IN THE EXPANSION JOINTS. THE CONTRACTOR SHALL EXAMINE THESE BRIDGE FEATURES ON A REGULAR BASIS TO ENSURE THAT DEBRIS HAS NOT ACCUMULATED. ANY DEBRIS WHICH IS PRESENT SHALL BE REMOVED BY THE CONTRACTOR AT NO COST TO THE STATE.
- THE CONTRACTOR SHALL PERFORM COLD PLANING WITH CAUTION AT THESE LOCATIONS. ANY DAMAGE WHICH OCCURS TO THESE MEMBRANES AS A RESULT OF COLD PLANE OPERATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE MEMBRANE WILL BE REPAIRED OR REPLACED AT NO COST TO THE STATE.

DETAILS ARE NOT TO SCALE

BRIDGE LOCATION AND DETAIL SHEET	PROJECT NAME: COLCHESTER - GEORGIA	
	PROJECT NUMBER: IM 089-3(59)	
FILE NAME: p04g030.DGN	PLOT DATE: 12-OCT-2010 16:38	
PROJECT LEADER: EPD	DRAWN BY: RHB/SJB	
DESIGNED BY: JDA	CHECKED BY: EPD	
PLOT FILE:	SHEET 3 OF 22	



ASPHALTIC PLUG TYPE JOINT DETAIL

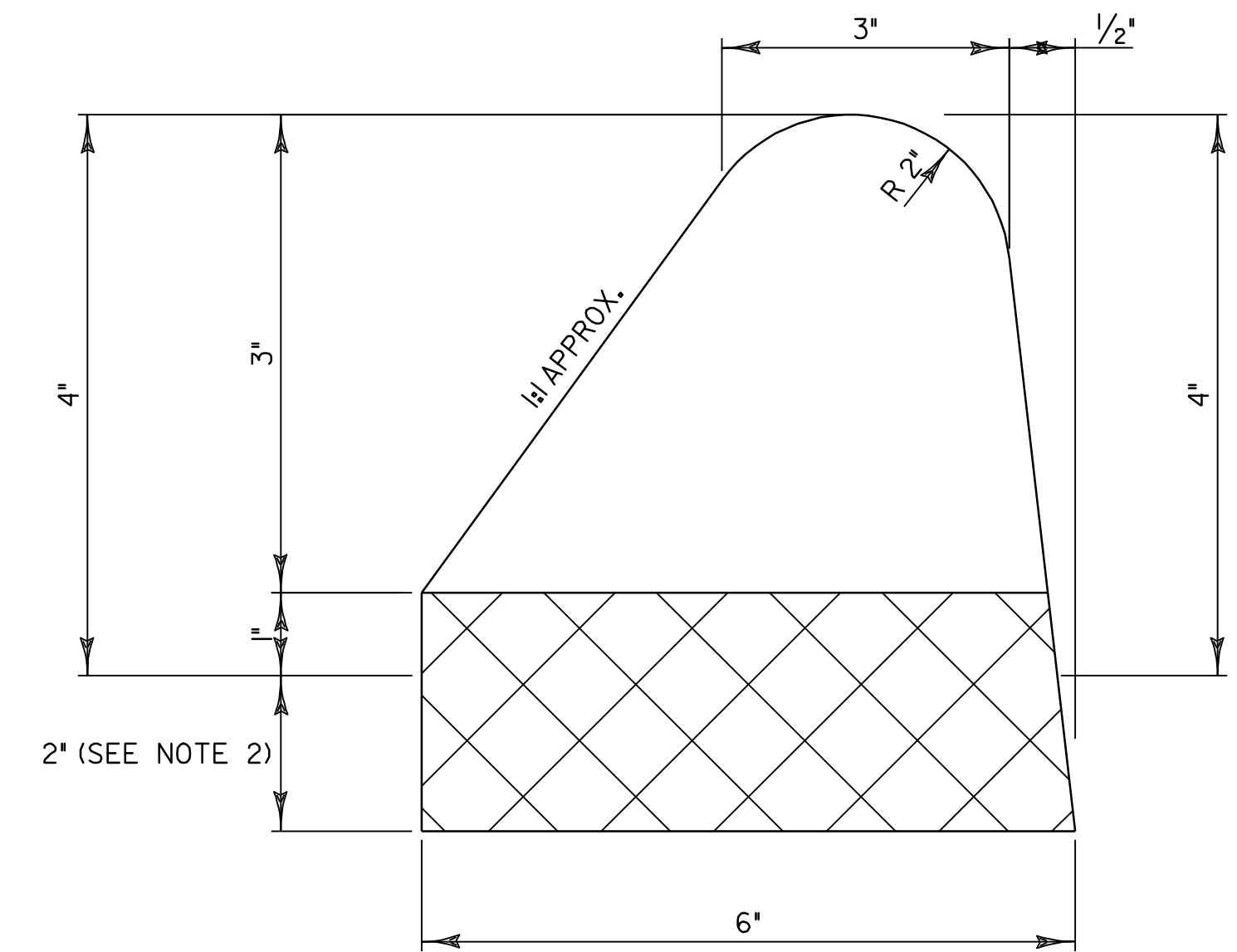


*BRIDGE DECK REINFORCEMENT NOT SHOWN FOR CLARITY

**ASPHALTIC PLUG-TYPE JOINT DETAIL
REMOVAL OF >2\"**

NOTES:

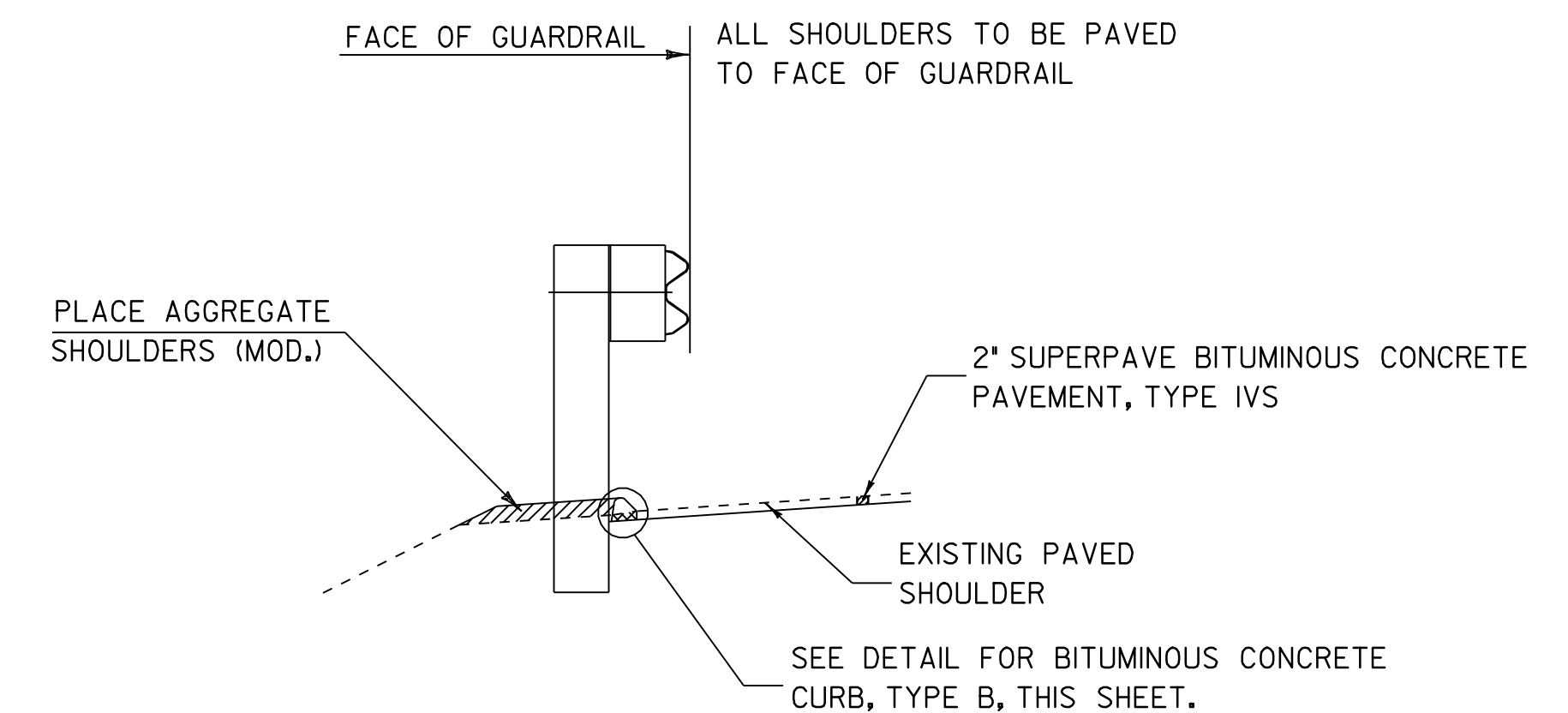
1. UPON ENCOUNTERING GREATER THAN 2\"
2. REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 "RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE".
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.



DETAIL FOR BITUMINOUS CONCRETE CURB, TYPE B

NOTE:

1. BITUMINOUS CONCRETE CURB IS TO BE PLACED PRIOR TO THE INSTALLATION OF GUARDRAIL AND THE PLACEMENT OF THE WEARING COURSE OR AS DIRECTED BY THE RESIDENT ENGINEER.
2. MATCH 2\"
3. IN AREAS OF EXISTING BRIDGE CURB, BITUMINOUS CONCRETE CURB SHALL BE TRANSITIONED INTO THE EXISTING BRIDGE CURB AS DIRECTED BY THE RESIDENT ENGINEER.
4. REMOVAL OF EXISTING CURB TO BE PAID FOR UNDER ITEM 616.41, "REMOVAL OF EXISTING CURB". NEW CURB TO BE PAID FOR UNDER ITEM 616.31, "BITUMINOUS CONCRETE CURB, TYPE B".



**TYPICAL SECTION AT GUARDRAIL
(EXISTING STEEL BEAM WITH CURBING)**

NOTE:

1. AN ESTIMATED QUANTITY OF BITUMINOUS CONCRETE CURB, TYPE B, IS INCLUDED IN THE QUANTITIES TO REPLACE DAMAGED OR MISSING CURB, AS DIRECTED BY THE RESIDENT ENGINEER. THIS ITEM WILL ALSO BE USED WHERE D'S ARE BEING REHABBED ALONG EXISTING BITUMINOUS CURB. AT THESE LOCATIONS, FOUR-FEET OF CURBING WILL BE REPLACED AT THE DI. SEE DETAIL FOR BITUMINOUS CURB, TYPE B, ON THIS SHEET.
2. THE CROSS HATCHED AREA SHALL BE CONSIDERED INCIDENTAL TO ITEM 616.31, "BITUMINOUS CONCRETE CURB, TYPE B".

DETAILS ARE NOT TO SCALE

NOTES:

1. UPON ENCOUNTERING UP TO 2\"
2. REMOVAL OF THE DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED AS SHOWN IN THE DETAIL ABOVE IF DIRECTED BY THE RESIDENT ENGINEER.

**BRIDGE
LOCATION
AND
DETAIL
SHEET**

PROJECT NAME: COLCHESTER - GEORGIA
PROJECT NUMBER: IM 089-3(59)

FILE NAME: p04g030.DGN
PROJECT LEADER: EPD
DESIGNED BY: JDA
PLOT FILE:

PLOT DATE: 12-OCT-2010 16:38
DRAWN BY: RHB/SJB
CHECKED BY: EPD
SHEET 4 OF 22

STATE OF VERMONT
AGENCY OF TRANSPORTATION

ITEM DETAIL SHEET

BEGIN STATION	END STATION	POS.	201.31 THIN TRIM FOR SIGNS	203.15 COMMON EXCAV.	203.30 EARTH BORROW	203.99 SHOULDER BERM REMOVAL	204.20 TRENCH EXCAV. OF EARTH	WASTE DITCHING MATERIAL	402.12 AGG. SHOULD.	402.12 AGG. SHOULD. (MOD.)	604.41 REHAB. D. I. CLASS I	616.47 BITUM. CONC. GUTTERS	620.75 SNOW BARRIER GALV.	621.20 STEEL BEAM G.R. (GALVANIZED)	621.20 STEEL BEAM G.R. (GALVANIZED) (MOD. W/8FT POSTS)	621.505 MANUF. TERMINAL SECTION (FLARED)	621.52 TRAILING END TERMINAL	621.70 G.R. APP. SECTION TYPE I (GALVANIZED)	621.76 REPLACE G.R. POST	621.77 REPLACE G.R. BEAM	621.80 REMOVE & DISP. OF G.R.	621.81 REMOVE & DISP. OF GUIDE POSTS	676.10 DEL. INE. WITH STEEL POSTS	REMARKS	
			EACH	CY	CY	FT	CY	CY	TON	TON	EACH	TON	FT	FT	FT	EACH	EACH	EA	EA	EA	FT	FT	EACH		
5329+71.0	5330+08.5	NB LT															1								
5330+08.5	5334+83.5	NB LT	I												475.0										
5334+83.5	5334+96.0	NB LT																							
5358+79.0	5359+16.5	NB LT															1								
5359+16.5	5363+66.5	NB LT	G												450.0						187.5				TO BRIDGE
5363+66.5	5363+79.0	NB LT																							
5367+77.0	5367+89.5	NB LT	K												12.5						12.5				
5367+89.5	5368+02.0	NB LT																							
5447+61.5	5447+99.0	NB LT															1								
5447+99.0	5452+74.0	NB LT	E												475.0										
5452+74.0	5452+86.5	NB LT																							
5571+52.0	5571+89.5	NB LT	J														1	1							
5571+89.5	5576+39.5	NB LT													450.0						425.0				TO BRIDGE, ADDED DUE TO DAMAGED GUARD RAIL
5620+97.0	5621+34.5	NB LT															1								
5621+34.5	5626+09.5	NB LT	B												475.0										
5626+09.5	5626+22.0	NB LT																							
5457+33.5	5457+71.0	SB RT															1								
5452+33.5	5457+33.5	SB RT	D												500.0						207				
5452+21.0	5452+33.5	SB RT																							
RAMP D	7+50	LT													37.5		1				37.5				
RAMP C	8+57	RT													37.5		1				37.5				
	7+60	LT													37.5		1				37.5				
5389+91	5391+03.5	SB LT													112.5						112.5				ADDED DUE TO DAMAGED GUARD RAIL
5635+49.5	5635+87.0	SB LT															1								
5635+12.0	5635+49.5	SB LT													37.5						37.5				
5630+59.0	5630+71.5	SB LT																							

**ITEM
DETAIL
SUMMARY
SHEET #1**

PROJECT NAME: COLCHESTER - GEORGIA
PROJECT NUMBER: IM 089-3(59)
FILE NAME: p04g030.DGN
PROJECT LEADER: EPD
DESIGNED BY: JDA
PLOT FILE:
PLOT DATE: 12-OCT-2010 16:38
DRAWN BY: RHB/SJB
CHECKED BY: EPD
SHEET 6C OF 21

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

ITEM DETAIL SHEET

BEGIN STATION	END STATION	POS.	201.31	203.15	203.30	203.99	204.20	WASTE DITCHING MATERIAL	402.12	402.12	604.41.2	616.47	620.75	621.20	621.20	621.505	621.52	621.70	621.76	621.77	621.80	621.81	676.10	REMARKS	
			THIN TRIM FOR SIGNS	COMMON EXCAV.	EARTH BORROW	SHOULDER BERM REMOVAL	TRENCH EXCAV. OF EARTH		AGG. SHOULD.	AGG. SHOULD. (MOD.)	REHAB. D. I. CLASS 1	BITUM. CONC. GUTTERS	SNOW BARRIER GALV.	STEEL BEAM G. R. (GALVANIZED)	STEEL BEAM G. R. (MOD. W/8FT POSTS)	MANUF. TERMINAL SECTION (FLARED)	TRAILING END TERMINAL	G. R. APP. SECTION TYPE I (GALVANIZED)	REPLACE G. R. POST	REPLACE G. R. BEAM	REMOVE & DISP. OF G. R.	REMOVE & DISP. OF GUIDE POSTS	DEL. INE. WITH STEEL POSTS		
			EACH	CY	CY	FT	CY	CY	TON	TON	EACH	TON	FT	FT	FT	EACH	EACH	EA	EA	EA	EA	FT	FT	EACH	
5174+40.00	5644+32.00	LT, RT				12000		400		3500	34								30	240			342	ESTIMATED QUANTITIES TO BE USED AS DIRECTED BY THE RESIDENT ENGINEER.	
5187+25.48	5187+37.98	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5187+37.98	
5187+12.00	5189+07.00	LT												37.50		1				2		37.5		98/241-98/278	
5188+34.60	5188+72.10	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5188+34.60	
5270+62.00	5273+89.00	LT												37.50		1					4	37.5		99/822-99/884	
5272+21.60	5272+59.10	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5272+21.60	
5272+82.00	5273+19.50	RT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5272+82.00	
5271+19.00	5275+31.00	RT												37.50		1					8	37.5		99/833-99/911 RT	
5274+69.04	5275+06.54	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5274+69.04	
5275+89.06	5276+26.56	RT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5275+89.06	
5277+21.00	5284+36.00	LT												37.50		1				18		37.5		99/947-100/083	
5278+60.63	5278+73.13	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5278+73.13	
5279+47.71	5279+85.21	RT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5279+47.71	
5277+97.00	5287+92.00	RT												37.50		1				10		37.5		99/962-100/150 RT	
5285+93.44	5286+30.94	LT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5285+93.44	
5289+46.40	5289+83.90	RT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5289+46.40	
5317+17.50	5317+30.00	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5317+30.00	
5315+16.00	5323+07.00	LT												37.50		1					4	37.5		100/666-100/816	
5321+62.84	5321+75.34	RT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5321+75.34	
5324+18.32	5324+55.82	LT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5324+18.32	
5319+60.00	5324+06.00	RT												37.50		1				4		37.5		100/750-100/834 RT	
5325+22.35	5325+59.85	RT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5325+22.35	
5350+13.98	5350+26.48	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5350+26.48	
5349+30.00	5361+95.00	LT												2.00					4	52				101/312-101/552 BES	
5362+65.05	5362+77.55	RT			25												1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 5362+77.55	
5370+06.48	5370+43.98	RT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5370+06.48	
5367+64.00	5391+21.00	LT												112.50		1				27		112.5		101/660-102/106	
5391+05.99	5391+43.49	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5391+05.99	
5396+16.00	5398+91.00	LT												275.0								275		102/200-102/252 DIP AREA	
5396+26.49	5396+38.99	LT			25												1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 5396+38.99	
5395+72.00	5408+46.00	LT												37.50		1				16		37.5		102/192-102/433 (TOTAL RUN AROUND DIP AREA)	
5405+46.72	5405+84.22	LT			25											1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5405+46.72	
5412+40.94	5412+53.44	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5412+53.44	
5412+00.00	5431+38.00	LT												37.50		1					20	37.5		102/500-102/867	
5430+70.17	5431+07.12	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5430+70.17	
5443+47.74	5443+60.24	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5443+60.24	
5443+10.00	5452+70.00	LT												37.50		1			1	12		37.5		103/089-103/271	
	SUBTOTAL				575	12000		400		3615	34			764.50		1114	0 8		5 90	240		762.5		365	THE STATIONS FOR MANUFACTURED TERMINAL SECTIONS AND TRAILING END
																									TERMINALS ARE TAKEN AT THE CONNECTION WITH THE STEEL BEAM GUARD RAIL.

**ITEM
DETAIL
SUMMARY
SHEET #1**

PROJECT NAME: COLCHESTER - GEORGIA
PROJECT NUMBER: IM 089-3(59)
FILE NAME: p04g030.DGN
PROJECT LEADER: EPD
DESIGNED BY: JDA
PLOT FILE:
PLOT DATE: 12-OCT-2010 16:38
DRAWN BY: RHB/SJB
CHECKED BY: EPD
SHEET 7 OF 22

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

ITEM DETAIL SHEET

BEGIN STATION	END STATION	POS.	201.31 THIN TRIM FOR SIGNS EACH	203.15 COMMON EXCAV. CY	203.30 EARTH BORROW CY	203.99 SHOULDER BERM REMOVAL FT	204.20 TRENCH EXCAV. OF EARTH CY	WASTE DITCHING MATERIAL CY	402.12 AGG. SHOULD. TON	402.12 AGG. SHOULD. (MOD.) TON	604.41.2 REHAB. D. I. CLASS 1 EACH	616.47 BITUM. CONC. GUTTERS TON	620.75 SNOW BARRIER GALV. FT	621.20 STEEL BEAM G. R. (GALVANIZED) FT	621.20 STEEL BEAM G. R. (GALVANIZED) (MOD. W/8FT POSTS) FT	621.505 MANUF. TERMINAL SECTION (FLARED) EACH	621.52 TRAILING END TERMINAL EACH	621.70 G. R. APP. SECTION TYPE I (GALVANIZED) EA	621.76 REPLACE G. R. POST EA	621.77 REPLACE G. R. BEAM EA	621.80 REMOVE & DISP. OF G. R. FT	621.81 REMOVE & DISP. OF GUIDE POSTS FT	676.10 DEL. INE. WITH STEEL POSTS EACH	REMARKS	
5452+17.73	5452+54.69	LT			25					5						1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5452+17.73	
5463+40.00	5466+10.00	LT												37.5		1					37.5			1	103/473-103/525
5463+44.44	5463+56.94	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5463+56.94	
5465+44.96	5465+82.46	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5465+44.96	
5483+03.80	5483+16.30	LT			25					5							1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 5483+16.30	
5483+28.00	5487+28.00	LT												37.5		1				2	37.5			1	103/850-103/926
5486+24.82	5486+62.32	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5486+24.82	
5525+05.51	5525+18.01	LT			25					5							1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 5525+18.01	
5526+07.00	5535+53.00	LT												37.5		1				19	37.5			1	104/660-104/840
5533+69.20	5534+06.70	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5533+69.20	
5557+38.69	5557+51.19	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5557+51.19	
5556+89.00	5563+80.00	LT												37.5		1				6	37.5			1	105/244-105/375
5558+11.28	5558+23.78	RT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5558+23.78	
5557+60.00	5564+08.00	RT												37.5		1				6	37.5			1	105/258-105/380 RT
5563+39.74	5563+77.24	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5563+39.74	
5563+64.95	5564+02.45	RT			25					5						1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5563+64.95	
5573+93.00	5575+20.00	RT																	2	2				1	105/567-105/591 RT
5574+15.95	5574+28.45	RT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5574+28.45	
5573+93.00	5575+20.00	LT																	0	0				1	105/567-105/591 EXISTING RAIL O.K.
5574+43.37	5574+55.87	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5574+55.87	
5579+06.40	5579+43.90	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5579+06.40	
5577+26.00	5579+90.00	LT														1			1	6	37.5			1	105/630-105/680
5580+42.41	5580+79.91	RT			25					5													1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5580+42.41	
5616+52.55	5616+65.05	LT			25					5							X						X	INSTALL NEW TRAILING END TERMINAL AT STA. 5616+65.05	
5615+28.00	5618+44.00	LT												2		1				6	37.5			1	BES 106/350-106/410
5619+09.46	5619+46.96	LT			25					5						1							1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5619+09.46	
5622+97.58	5623+10.08	LT			25					5							1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 5623+10.08	
5624+78.00	5628+48.00	LT												2		1				13	37.5			1	BES 106/530-106/600
5625+80.34	5626+17.84	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5625+80.34	
5630+03.59	5630+16.09	LT			25					5							1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 5630+16.09	
5630+59.00	5635+87.00	LT														1	1		1	6	37.5			1	106/640-106/740
5634+57.81	5634+95.31	LT			25					5						X							X	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 5634+57.81	
EXIT 18 RAMP C																									2+80
2+90.69	3+28.19	RT	2+80	8+57	25					5				37.5		1				22	37.5		1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 2+90.69	
3+23.17	3+60.67	LT	3+20	7+59	25					5				37.5		1				17	37.5		1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 3+23.17	
6+82.60	7+20.10	LT			25					5							1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 7+20.10	
7+30.32	7+67.82	RT			25					5							1						1	INSTALL NEW TRAILING END TERMINAL AT STA. 7+67.82	
	4+24.57	RT																							
	5+74.69	RT																							
	SUBTOTAL				625					125	2			266.5		11	1		4	105	412.5		25		THE STATIONS FOR MANUFACTURED TERMINAL SECTIONS AND TRAILING END TERMINALS ARE TAKEN AT THE CONNECTION WITH THE STEEL BEAM GUARD RAIL.

ITEM DETAIL SUMMARY SHEET #2	PROJECT NAME: COLCHESTER - GEORGIA
	PROJECT NUMBER: IM 089-3(59)
	FILE NAME: p04g030.DGN
	PLOT DATE: 12-OCT-2010 16:38
	PROJECT LEADER: EPD
	DESIGNED BY: JDA
	CHECKED BY: EPD
	PLOT FILE:
	DRAWN BY: RHB/SJB
	CHECKED BY: EPD
	SHEET 8 OF 22

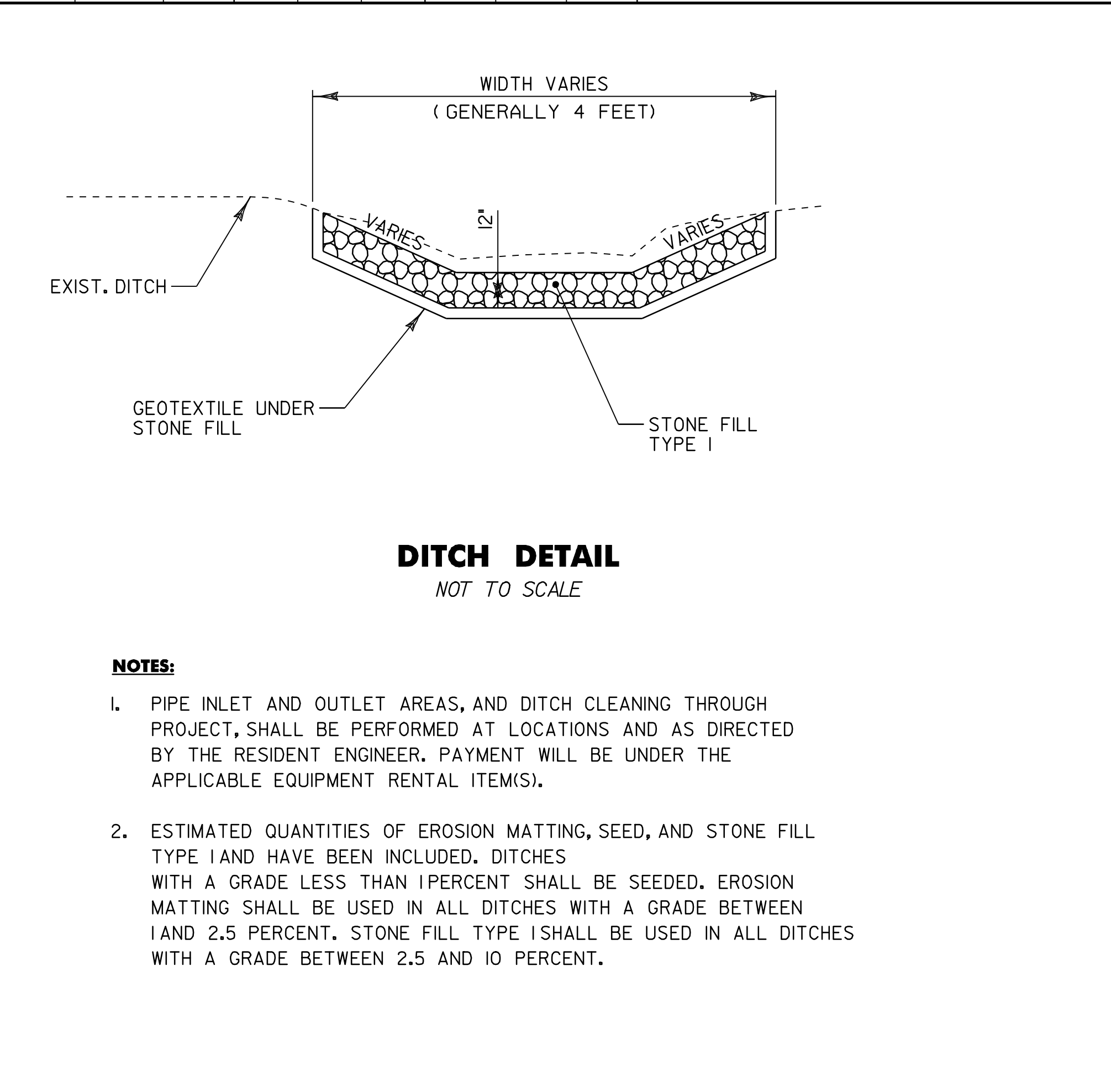
**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

ITEM DETAIL SHEET

BEGIN STATION	END STATION	POS.	201.31 THIN TRIM FOR SIGNS	203.15 COMMON EXCAV.	203.30 EARTH BORROW	203.99 SHOULDER BERM REMOVAL	204.20 TRENCH EXCAV. OF EARTH	WASTE DITCHING MATERIAL	402.12 AGG. SHOULD.	402.12 AGG. SHOULD. (MOD.)	604.41.2 REHAB. D. I. CLASS 1	616.47 BITUM. CONC. GUTTERS	620.75 SNOW BARRIER GALV.	621.20 STEEL BEAM G. R. (GALVANIZED)	621.20 STEEL BEAM G. R. (GALVANIZED) (MOD. W/8FT POSTS)	621.505 MANUF. TERMINAL SECTION (FLARED)	621.52 TRAILING END TERMINAL	621.70 G. R. APP. SECTION TYPE I (GALVANIZED)	621.76 REPLACE G. R. POST	621.77 REPLACE G. R. BEAM	621.80 REMOVE & DISP. OF G. R.	621.81 REMOVE & DISP. OF GUIDE POSTS	676.10 DEL. INE. WITH STEEL POSTS	REMARKS			
			EACH	CY	CY	FT	CY	CY	TON	TON	EACH	TON	FT	FT	FT	EACH	EACH	EA	EA	EA	FT	FT	EACH				
EXIT 18 RAMP D																											
3+98.14	4+35.64	LT			25					5						1								1	INSTALL NEW MANUFACTURED TERMINAL SECTION (FLARED) AT STA. 3+98.14		
7+17.23	7+54.73	LT			25					5							1							1	INSTALL NEW TRAILING END TERMINAL AT STA. 7+54.73		
BULLNOSE AT BR. 80 (TOWN HIGHWAY 6 OVER I-89)																											
5329+71.00	5340+08.50	NB, LT			50					10				987.5		1	1						94	2	REMOVE EXISTING BULLNOSE GUARDRAIL; INSTALL NEW STEEL BEAM GUARD RAIL, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
5333+95.00	5339+13.00	SB, RT			50					10				437.5		1	1						94	2	REMOVE EXISTING BULLNOSE GUARDRAIL; INSTALL NEW STEEL BEAM GUARD RAIL, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
BR 80 (TOWN HIGHWAY 6 OVER I-89)																											
													225														
BRIDGE 81 (I-89 OVER LAMOILLE RIVER)																											
5361+41.50	5369+16.50	NB, LT			50					10				150		1	1	1					103.5	2	INSTALL NEW GUARDRAIL APPROACH SECTION, MANUFACTURED TERMINAL SECTION (FLARED) AND TRAILING END TERMINAL.		
5363+16.50	5373+54.00	SB, RT			50					10				412.5		1	1	1					51.5	2	INSTALL NEW GUARDRAIL APPROACH SECTION, MANUFACTURED TERMINAL SECTION (FLARED) AND TRAILING END TERMINAL.		
SEE PAGES 13, 14, 15																											
5363+79.0		NB/SB												39.0									39.0		REPLACE EXISTING GUARDRAIL BETWEEN SOUTHBOUND AND NORTHBOUND.		
5368+54.0		NB/SB												39.0									39.0		REPLACE EXISTING GUARDRAIL BETWEEN SOUTHBOUND AND NORTHBOUND.		
BULLNOSE AT BR. 82 (TOWN HIGHWAY 3 OVER I-89)																											
5447+61.50	5457+99.00	NB, LT			50					10				987.5		1	1						95	2	REMOVE EXISTING BULLNOSE GUARDRAIL; INSTALL NEW STEEL BEAM GUARDRAIL AND TRAILING END MANUFACTURED TERMINAL SECTIONS.		
5451+87.50	5457+08.50	SB, RT			50					10				437.5		1	1						95	2	REMOVE EXISTING BULLNOSE GUARDRAIL; INSTALL NEW STEEL BEAM GUARDRAIL, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
BR 82 (TOWN HIGHWAY 3 OVER I-89)																											
													225														
BRIDGE 84 (I-89 OVER TOWN HIGHWAY 6)																											
5574+93.00	5580+42.50	NB, LT			50					10				412.5		1	1	1					183.5	2	INSTALL NEW GUARDRAIL APPROACH SECTION, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
5578+32.5	5584+80.00	SB, RT			50					10				412.5		1	1	1					158.5	2	INSTALL NEW GUARDRAIL APPROACH SECTION, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
5578+95.0		NB/SB												121.0									121.0		REPLACE EXISTING GUARDRAIL BETWEEN SOUTHBOUND AND NORTHBOUND.		
5579+80.0		NB/SB												121.0									121.0		REPLACE EXISTING GUARDRAIL BETWEEN SOUTHBOUND AND NORTHBOUND.		
BULLNOSE AT BR. 85 (U. S. ROUTE 7 OVER I-89)																											
5620+97.00	5631+34.50	NB, LT			50					10				987.5		1	1						109	2	REMOVE EXISTING BULLNOSE GUARDRAIL; INSTALL NEW STEEL BEAM GUARDRAIL, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
5625+23.50	5630+59.00	SB, RT			50					10				450		1	1						109	2	REMOVE EXISTING BULLNOSE GUARDRAIL; INSTALL NEW STEEL BEAM GUARDRAIL, MANUFACTURED TERMINAL SECTION (FLARED), AND TRAILING END TERMINAL.		
BR 85 (U. S ROUTE 7 OVER I-89)																											
													225														
SUBTOTAL																											
					550					110			675	5995		11	11	4				1093	22				
SHEET 7 SUBTOTAL																											
					575	12000		400		3615	34					14	9					30	240		365		
SHEET 8 SUBTOTAL																											
					625					125	2					13	12							25			
ROUNDING																											
					50	-				50	-		-	55		-	-	-				10	20		48		
TOTAL																											
					1800	12000		400		3900	36		675	6050		38	32	4			40	260	1125	460	THE STATIONS FOR MANUFACTURED TERMINAL SECTIONS AND TRAILING END TERMINALS ARE TAKEN AT THE CONNECTION WITH THE STEEL BEAM GUARD RAIL.		

ITEM DETAIL SUMMARY SHEET #3	PROJECT NAME: COLCHESTER - GEORGIA
	PROJECT NUMBER: IM 089-3(59)
	FILE NAME: p04g030.DGN
	PLOT DATE: 12-OCT-2010 16:38
	PROJECT LEADER: EPD
	DRAWN BY: RHB/SJB
	DESIGNED BY: JDA
	CHECKED BY: EPD
	PLOT FILE:
	SHEET 9 OF 22

LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS	LOCATION				FEET OF DITCHING			MISC. ITEMS			REMARKS		
SITE	STATION	STATION	POS.	PERCENT GRADE			EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL		SITE	STATION	STATION	POS.	PERCENT GRADE			EROS. MATT.	STONE FILL TYP. I	GEOT. UNDER STONE FILL			
				0-1	1-2.5	2.5-10									0-1	1-2.5	2.5-10					654.10	613.10
COLCHESTER - GEORGIA VT I-89							SY	CY	SY								SY	CY	SY				
1	8+23	5187+07	LT		1825		811.1																EXIT 17 RAMP B
2	5319+60		RT, LT	50																			SEE NOTE 1
3	5259+08	5259+47	LT	50																			
4	5296+31	5296+80	LT			50		7.4	22.2														
5	5335+60	5347+15	LT			1172		173.6	520.9														
6	5392+59	5392+99	LT	40																			
7	5403+02		RT, LT	50																			SEE NOTE 1
8	5450+84	5451+33	RT		50		22.2																
9	5451+60		RT, LT	50																			SEE NOTE 1
10	5567+03	5567+42	RT, LT	80																			
11	5488+56		RT, LT	50																			SEE NOTE 1
12	5493+84		RT, LT	50																			SEE NOTE 1
13	5499+12		RT, LT	50																			SEE NOTE 1
14	5503+87		RT, LT	50																			SEE NOTE 1
15	5527+10		RT, LT	5																			REMOVE METAL GRATE. SEE NOTE 2
16	5558+78		RT, LT	10																			CLEAN INLET & OUTLET OF PIPE
17	5575+68		RT, LT	50																			SEE NOTE 1
18	5+50	10+50	RT			500		74.1	222.2														EXIT 18 RAMP D
SUB-TOTAL				585	1875	1722	833.3	255.1	765.3														
ROUNDING				-	-	-	16.7	14.9	14.7														
TOTAL				585	1875	1722	850.0	270.0	780.0														



NOTE:

- CLEAN INLET AND OUTLET OF PIPE AND RUN DITCH FROM END OF PIPE (IN MEDIAN) TO NORTHBOUND BARREL.
- REMOVE METAL GRATE FROM PIPE. TO BE PAID FOR IN THE SAME MANNER AS DITCHING.

DITCH CLEANING DETAIL SHEET	PROJECT NAME: COLCHESTER - GEORGIA	PLOT DATE: 12-OCT-2010 16:39
	PROJECT NUMBER: IM 089-3(59)	DRAWN BY: RHB/SJB
	FILE NAME: p04g030.DGN	CHECKED BY: EPD
	DESIGNED BY: JDA	SHEET 10 OF 22

REFER TO INTERCHANGE 18
DETAILS ON SHEET 19

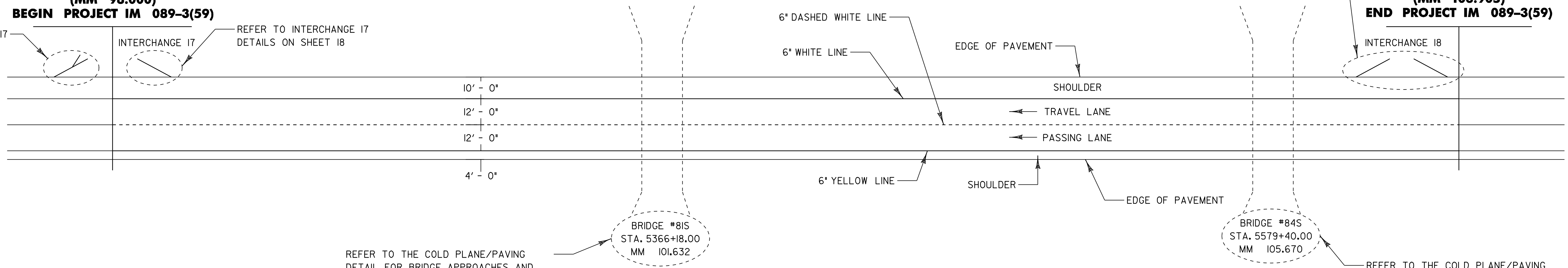
**INTERSTATE ROUTE 89
SOUTHBOUND
STA. 5174+40.00
(MM 98.000)
BEGIN PROJECT IM 089-3(59)**

**INTERSTATE ROUTE 89
SOUTHBOUND
STA. 5644+58.00
(MM 106.905)
END PROJECT IM 089-3(59)**

REFER TO INTERCHANGE 17
DETAILS ON SHEET 18

REFER TO INTERCHANGE 17
DETAILS ON SHEET 18

INTERCHANGE 18



REFER TO THE COLD PLANE/PAVING
DETAIL FOR BRIDGE APPROACHES AND
BRIDGE JOINT DETAILS ON SHEETS 3-4.

REFER TO THE COLD PLANE/PAVING
DETAIL FOR BRIDGE APPROACHES AND
BRIDGE JOINT DETAILS ON SHEET 3-4.

604.412 REHABILITATION OF DI, CB OR MH, CLASS J

- STA. 5280+03.70 RT
- STA. 5282+49.66 RT
- STA. 5284+93.69 RT
- STA. 5286+90.89 RT
- STA. 5299+85.92 LT
- STA. 5352+40.11 LT
- STA. 5354+81.34 LT
- STA. 5357+22.15 LT
- STA. 5359+16.87 LT
- STA. 5361+10.77 LT
- STA. 5370+20.55 LT
- STA. 5375+38.44 LT
- STA. 5376+87.62 LT
- STA. 5383+22.82 LT
- STA. 5385+17.52 LT
- STA. 5387+64.71 LT
- STA. 5396+46.24 LT
- STA. 5398+45.16 LT
- STA. 5416+76.59 LT
- STA. 5418+24.68 LT
- STA. 5420+28.46 LT
- STA. 5423+66.75 LT
- STA. 5425+64.13 LT
- STA. 5427+59.59 LT
- STA. 5445+81.31 LT
- STA. 5483+26.08 LT
- STA. 5525+34.15 LT
- STA. 5527+07.47 LT
- STA. 5529+25.77 LT
- STA. 5531+25.18 LT
- STA. 5560+31.30 RT
- STA. 5624+75.13 LT
- STA. 5626+17.84 LT
- STA. 5633+15.42 LT

- 646.414 DURABLE 6" WHITE LINE (MOD. - RETROREFLECTIVITY/INLAID)
 STA. 5174+40.00 LT - STA. 5174+57.00 LT (SOLID)
 STA. 5182+11.00 LT - STA. 5613+48.00 LT (SOLID)
 STA. 5628+21.00 LT - STA. 5637+18.00 LT (SOLID)
 STA. 5174+40.00 CL - STA. 5644+58.00 CL (DASHED)

- 646.415 DURABLE 6" YELLOW LINE (MOD. - RETROREFLECTIVITY/INLAID)
 STA. 5174+40.00 RT - STA. 5644+58.00 RT (SOLID)

- 646.614 TEMPORARY 6" WHITE LINE (PAINT)
 STA. 5174+40.00 LT - STA. 5174+57.00 LT (SOLID)
 STA. 5182+11.00 LT - STA. 5613+48.00 LT (SOLID)
 STA. 5628+21.00 LT - STA. 5637+18.00 LT (SOLID)
 STA. 5174+40.00 CL - STA. 5644+58.00 CL (DASHED)

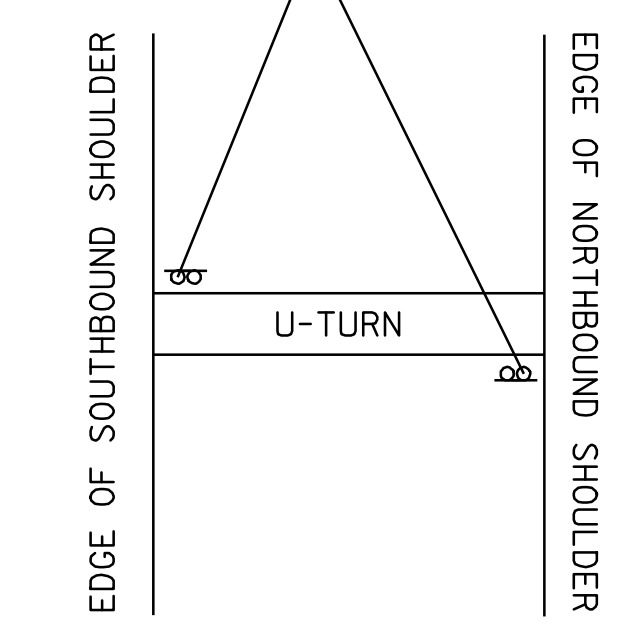
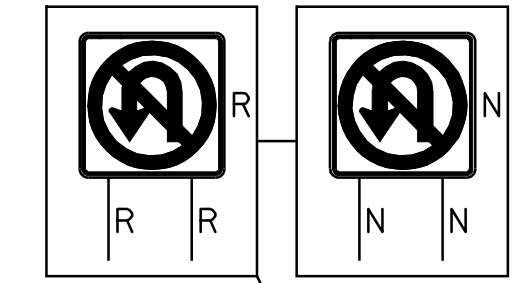
- 646.615 TEMPORARY 6" YELLOW LINE (PAINT)
 STA. 5174+40.00 RT - STA. 5644+58.00 RT (SOLID)

- 621.505 MANUFACTURED TERMINAL SECTIONS (FLARED)
 SEE ITEM DETAIL SUMMARY SHEET

- 621.52 TRAILING END TERMINAL
 SEE ITEM DETAIL SUMMARY SHEET

- 675.50 REMOVING SIGNS
 SEE U-TURN SIGNS SHOWN AT RIGHT - 10

REPLACE U-TURN SIGNS
AT THE LOCATIONS INDICATED BELOW



- MM 98.296
- MM 101.055
- MM 101.809
- MM 103.640
- MM 106.323

U-TURN NOTES:

1. EACH U-TURN AREA LOCATED WITHIN THE PROJECT LIMITS SHALL BE PAVED, EXCEPT FOR THE U-TURN AT M.M. 101.577 (SEE NOTE 2). SEE VTRANS STANDARD B-17 FOR U-TURN DETAILS.
2. THE U-TURN AT M.M. 101.577 SHALL BE REMOVED. SEE THE U-TURN REMOVAL DETAIL ON SHEET 2 FOR DETAILS ON THE REMOVAL OF THIS U-TURN.
3. A NEW U-TURN SHALL BE CONSTRUCTED AT M.M. 101.055. COSTS ASSOCIATED WITH TRANSPORTING AND PLACING MATERIALS FOR THE NEW U-TURN SHALL BE INCIDENTAL TO PAY ITEMS 608.25 AND 608.37. A QUANTITY OF ITEM 301.35, "SUBBASE OF DENSE GRADED CRUSHED STONE" HAS BEEN INCLUDED IN THE QUANTITIES IN THE EVENT THAT THE MATERIAL REMOVED FROM THE U-TURN AT M.M. 101.577 IS CONSIDERED UNSUITABLE.

**PAVING PROJECT
LAYOUT**

PROJECT NAME: COLCHESTER - GEORGIA
PROJECT NUMBER: IM 089-3(59)

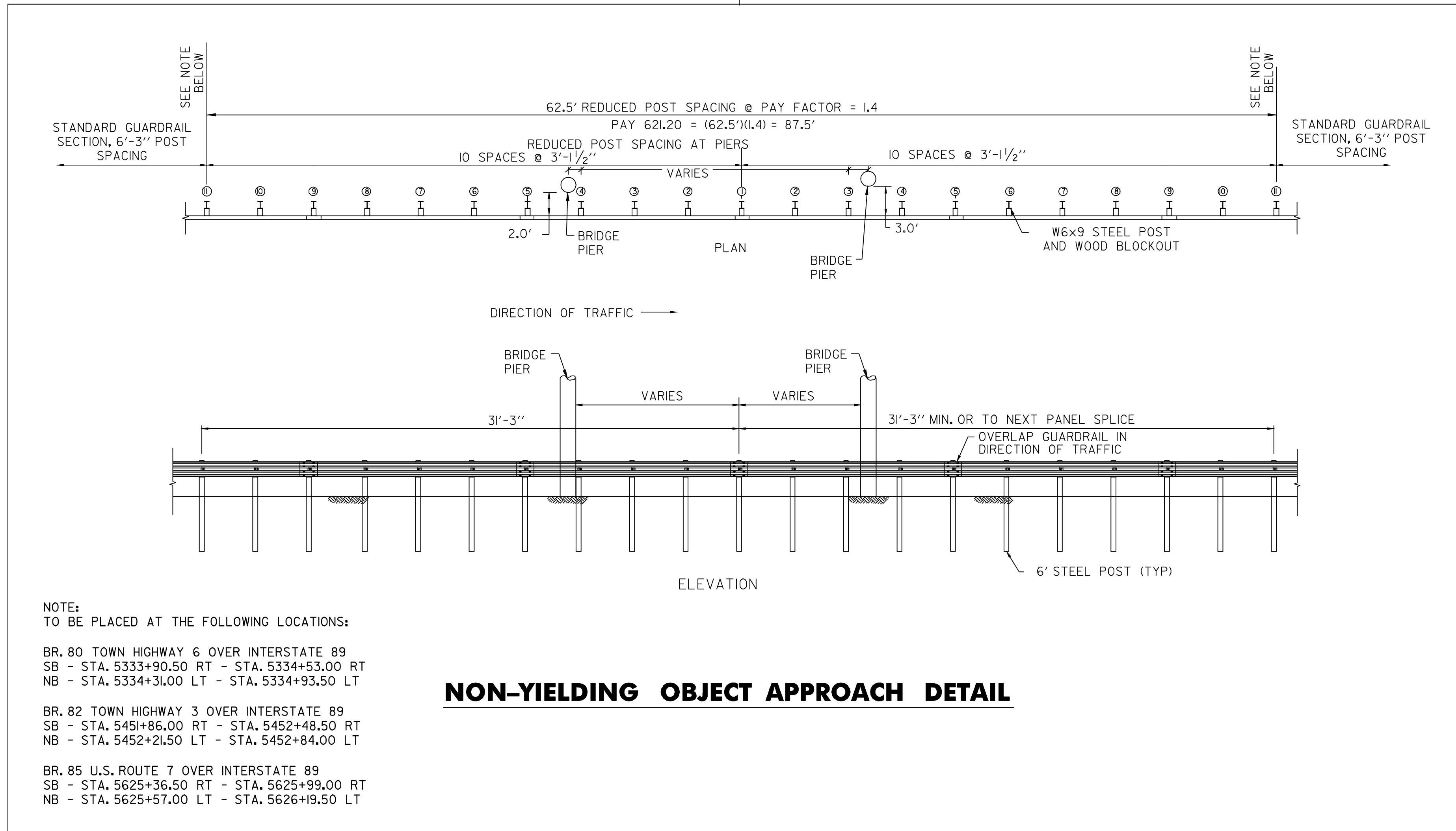
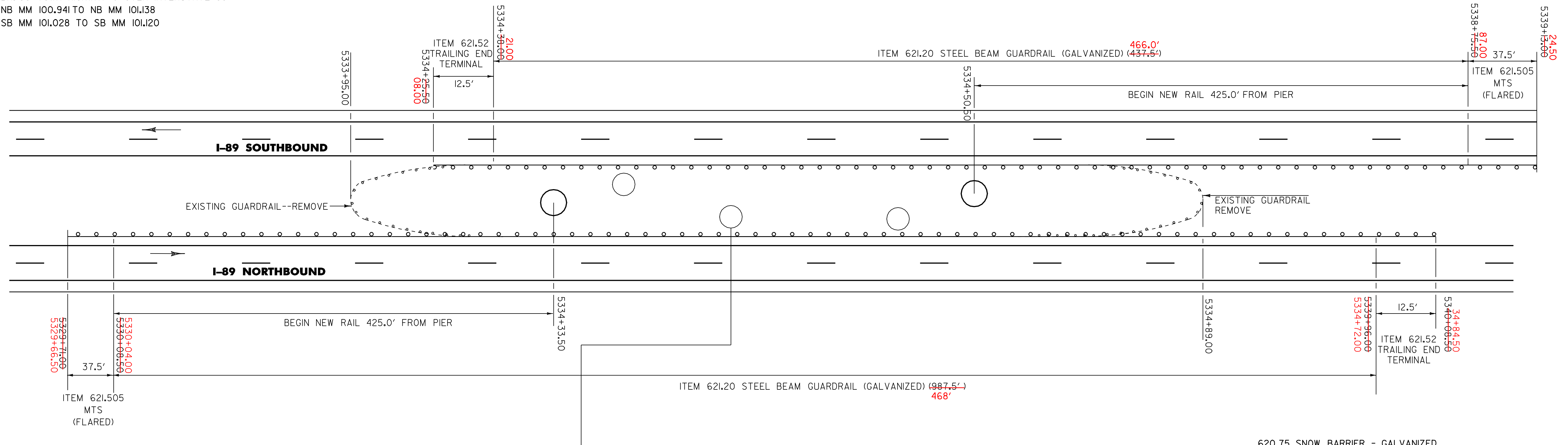
FILE NAME: p04g030.DGN
PROJECT LEADER: EPD
DESIGNED BY: JDA
PLOT FILE:

PLOT DATE: 12-OCT-2010 16:39
DRAWN BY: RHB/SJB
CHECKED BY: EPD
SHEET 11 OF 22

LOCATIONS:

BR. 80 TOWN HIGHWAY 6 OVER INTERSTATE 89
 NB MM 100.941 TO NB MM 101.138
 SB MM 101.028 TO SB MM 101.120

GUARDRAIL TREATMENT AT BULLNOSE LOCATIONS—OVERPASSES



620.75 SNOW BARRIER - GALVANIZED

5334+26.0 (10 LF)
 5334+58.0 (15 LF)

621.20 STEEL BEAM GUARDRAIL (GALVANIZED)

NB-- STA. 5330+08.50 LT - STA. 5339+96.00 LT
 SB-- STA. 5334+38.00 RT - STA. 5338+75.50 RT
 SEE CHANGES ABOVE

621.505 MANUFACTURED TERMINAL SECTION (FLARED)

NB--STA. 5329+71.00 LT - STA. 5330+08.50 LT
 SB--STA. 5338+75.50 RT - STA. 5339+13.00 RT
 SEE CHANGES ABOVE

621.52 TRAILING END TERMINAL

NB--STA. 5339+96.00 LT - STA. 5340+08.50 LT
 SB--STA. 5334+25.50 RT - STA. 5334+38.00 RT
 SEE CHANGES ABOVE

621.80 REMOVAL & DISPOSAL OF GUARDRAIL

NB--STA. 5333+95.00 LT - STA. 5334+89.00 LT (94.00 LF)
 SB--STA. 5333+95.00 RT - STA. 5334+89.00 RT (94.00 LF)
 SEE CHANGES ABOVE

BULLNOSE TREATMENT DETAIL

PROJECT NAME: COLCHESTER - GEORGIA
 PROJECT NUMBER: IM 089-3(59)

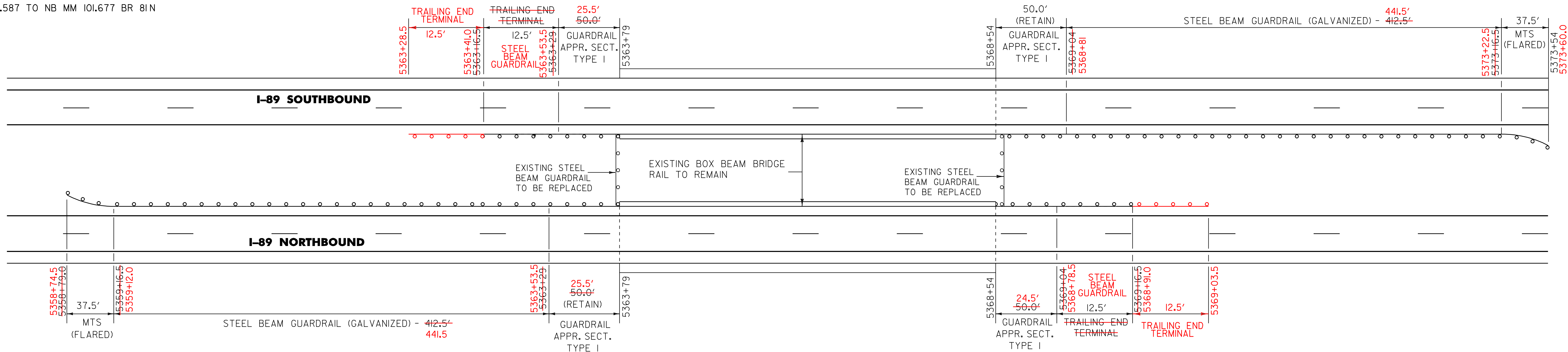
FILE NAME: p04g030.DGN
 PROJECT LEADER: EPD
 DESIGNED BY: JDA
 PLOT FILE:

PLOT DATE: 12-OCT-2010 16:39
 DRAWN BY: RHB/SJB
 CHECKED BY: EPD
 SHEET 13 OF 22

THE CONTRACTOR SHALL WIDEN WITH EARTH BORROW ADJACENT TO THE 4.0' SHOULDER TO PROVIDE BACKING FOR THE NEW GUARDRAIL AND TO CONSTRUCT A FLARE FOR THE END TERMINAL. CONSTRUCTION OF THE WIDENING AND TERMINAL FLARE SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD G-19.

GUARDRAIL TREATMENT AT BULLNOSE LOCATIONS - BRIDGES

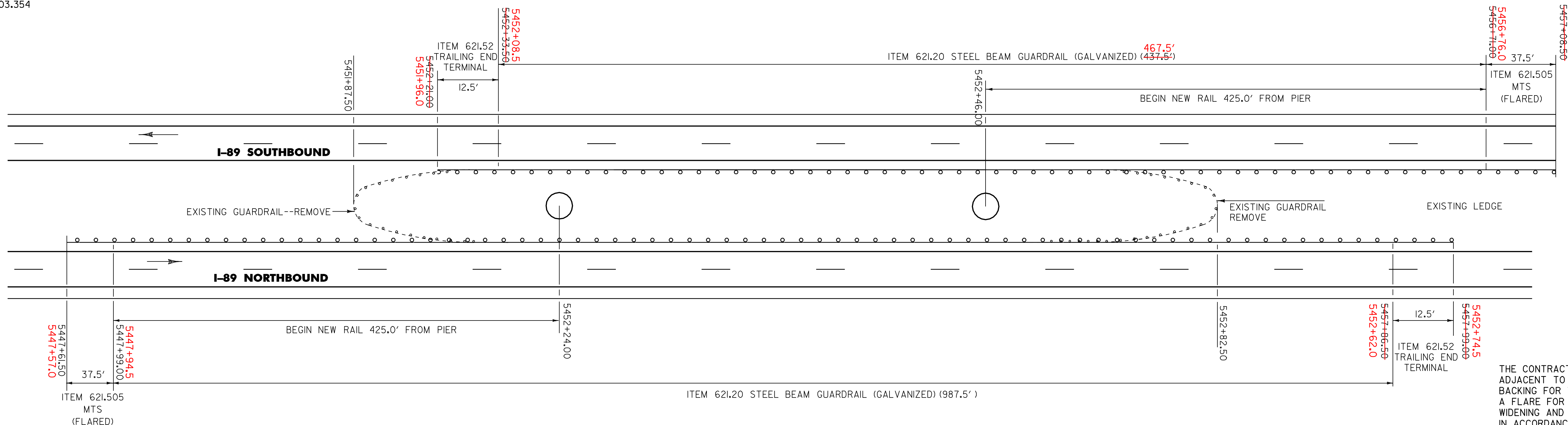
LOCATIONS:
 BR. 81 INTERSTATE 89 OVER LAMOILLE RIVER
 SB MM 101.587 TO SB MM 101.677 BR 81S
 NB MM 101.587 TO NB MM 101.677 BR 81N



621.20 STEEL BEAM GUARDRAIL (GALVANIZED) NB -- 5359+16.5 - 5363+29.0 LT SB -- 5369+04.0 - 5373+16.5 RT NB & SB -- 5363+79 (39.0 LF) NB & SB -- 5368+54 (39.0 LF) SEE CHANGES ABOVE	621.80 REMOVING AND DISPOSAL OF GUARDRAIL NB -- 5361+41.5 - 5361+79.0 LT (64.50 LF) SB -- 5370+79.0 - 5370+91.5 RT (12.50 LF) NB & SB -- 5363+79 (39.0 LF) NB & SB -- 5368+54 (39.0 LF) SEE CHANGES ABOVE	621.505 MANUFACTURED TERMINAL SECTION (FLARED) NB -- 5358+79.0 - 5359+16.5 LT SB -- 5373+16.5 - 5373+54 RT SEE CHANGES ABOVE	621.52 TRAILING END TERMINAL NB -- 5369+04 - 5369+16.5 LT SB -- 5373+16.5 - 5363+29 RT SEE CHANGES ABOVE	621.70 GUARDRAIL APPROACH SECTION TYPE I (GALVANIZED) NB -- 5368+54.0 - 5369+04.0 LT SB -- 5363+29.0 - 5363+79.0 RT SEE CHANGES ABOVE
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------

GUARDRAIL TREATMENT AT BULLNOSE LOCATIONS—OVERPASSES

LOCATIONS:
 BR. 82 TOWN HIGHWAY 3 OVER INTERSTATE 89
 NB MM 103.175 TO NB MM 103.371
 SB MM 103.261 TO SB MM 103.354



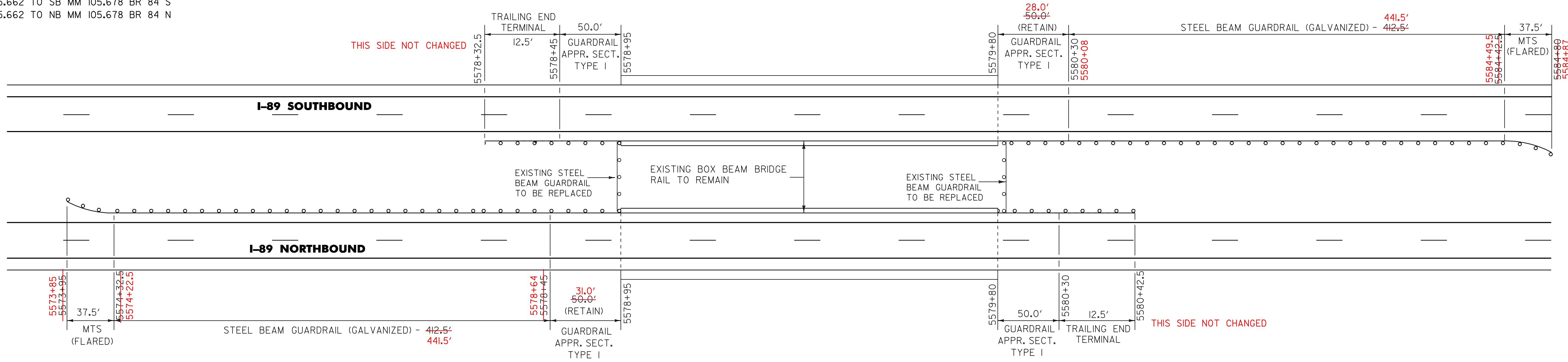
THE CONTRACTOR SHALL WIDEN WITH EARTH BORROW ADJACENT TO THE 4.0' SHOULDER TO PROVIDE BACKING FOR THE NEW GUARDRAIL AND TO CONSTRUCT A FLARE FOR THE END TERMINAL. CONSTRUCTION OF THE WIDENING AND TERMINAL FLARE SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD G-19.

620.75 SNOW BARRIER - GALVANIZED 5452+16.5 (110 LF) 5452+90.0 (115 LF)	621.505 MANUFACTURED TERMINAL SECTION (FLARED) NB--STA. 5447+61.50 LT - STA. 5447+99.00 LT SB--STA. 5456+71.00 RT - STA. 5457+08.50 RT SEE CHANGES ABOVE	621.52 TRAILING END TERMINAL NB--STA. 5457+86.50 LT - STA. 5457+99.00 LT SB--STA. 5452+21.00 RT - STA. 5452+33.50 RT SEE CHANGES ABOVE	621.80 REMOVAL & DISPOSAL OF GUARDRAIL NB--STA. 5451+87.50 LT - STA. 5452+82.50 LT (95.00 LF) SB--STA. 5451+87.50 RT - STA. 5452+82.50 RT (95.00 LF) SEE CHANGES ABOVE
-------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

BULLNOSE TREATMENT DETAIL	PROJECT NAME: COLCHESTER - GEORGIA PROJECT NUMBER: IM 089-3(59)
	FILE NAME: p04g030.DGN PROJECT LEADER: EPD DESIGNED BY: JDA PLOT FILE:
	PLOT DATE: 12-OCT-2010 16:39 DRAWN BY: RHB/SJB CHECKED BY: EPD SHEET 14 OF 22

GUARDRAIL TREATMENT AT BULLNOSE LOCATIONS - BRIDGES

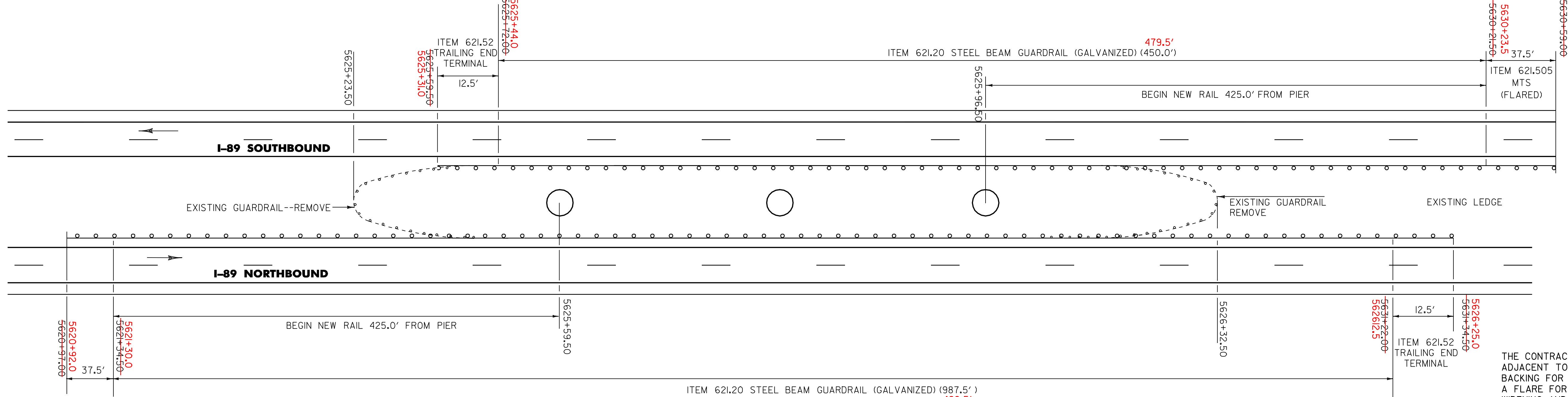
LOCATIONS:
 BR. 84 INTERSTATE 89 OVER TOWN HIGHWAY 6
 SB MM 105.662 TO SB MM 105.678 BR 84 S
 NB MM 105.662 TO NB MM 105.678 BR 84 N



- | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>621.20 STEEL BEAM GUARDRAIL (GALVANIZED)
 NB -- 5574+32.5 - 5578+45.0 LT
 SB -- 5580+30.0 - 5584+42.5 RT
 NB & SB -- 5578+95 (I21.0 LF)
 NB & SB -- 5579+80 (I21.0 LF)
 SEE CHANGES ABOVE</p> | <p>621.80 REMOVING AND DISPOSAL OF GUARDRAIL
 NB -- 5574+93.0 - 5575+05.5 LT (I2.5 LF)
 NB -- 5579+80.0 - 5580+30.0 LT (50.0 LF)
 SB -- 5583+57.0 - 5583+94.5 RT (37.5 LF)
 NB & SB -- 5578+95 (I21.0 LF)
 NB & SB -- 5579+80 (I21.0 LF)
 SEE CHANGES ABOVE</p> | <p>621.505 MANUFACTURED TERMINAL SECTION (FLARED)
 NB -- 5573+95.0 - 5574+32.5 LT
 SB -- 5584+42.5 - 5584+80.0 RT
 SEE CHANGES ABOVE</p> | <p>621.52 TRAILING END TERMINAL
 NB -- 5580+30 - 5580+42.5 LT
 SB -- 5578+32.5 - 5578+45 RT
 SEE CHANGES ABOVE</p> | <p>621.70 GUARDRAIL APPROACH SECTION TYPE I (GALVANIZED)
 NB -- 5579+80.0 - 5580+30.0 LT
 SB -- 5578+45.0 - 5578+95.0 RT
 SEE CHANGES ABOVE</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

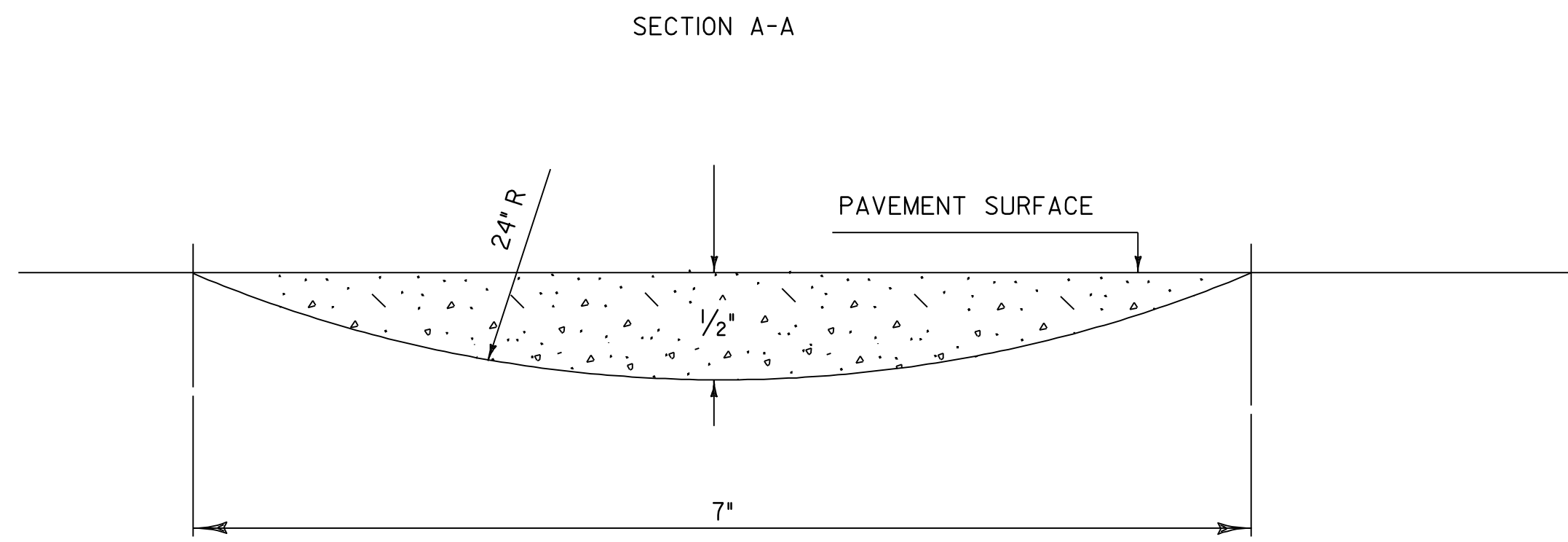
LOCATIONS:
 BR. 85 U.S. ROUTE 7 OVER INTERSTATE 89
 NB MM 106.458 - NB MM 106.654
 SB MM 106.544 - SB MM 106.640

- | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>620.75 SNOW BARRIER - GALVANIZED
 5625+52.0 (I10 LF)
 5626+04.0 (I15 LF)</p> | <p>621.20 STEEL BEAM GUARDRAIL (GALVANIZED)
 NB-- STA. 5621+34.50 LT - STA. 5631+22.00 LT
 SB-- STA. 5625+72.00 RT - STA. 5630+21.50 RT
 SEE CHANGES BELOW</p> | <p>621.505 MANUFACTURED TERMINAL SECTION (FLARED)
 NB--STA. 5620+97.00 LT - STA. 5621+34.50 LT
 SB--STA. 5630+21.50 RT - STA. 5630+59.00 RT
 SEE CHANGES BELOW</p> | <p>621.52 TRAILING END TERMINAL
 NB--STA. 5631+22.00 LT - STA. 5631+34.50 LT
 SB--STA. 5625+59.50 RT - STA. 5625+72.00 RT
 SEE CHANGES BELOW</p> | <p>621.80 REMOVAL & DISPOSAL OF GUARDRAIL
 NB--STA. 5625+23.50 LT - STA. 5626+32.50 LT (I09.00 LF)
 SB--STA. 5625+23.50 RT- STA. 5626+32.50 RT (I09.00 LF)
 SEE CHANGES BELOW</p> |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

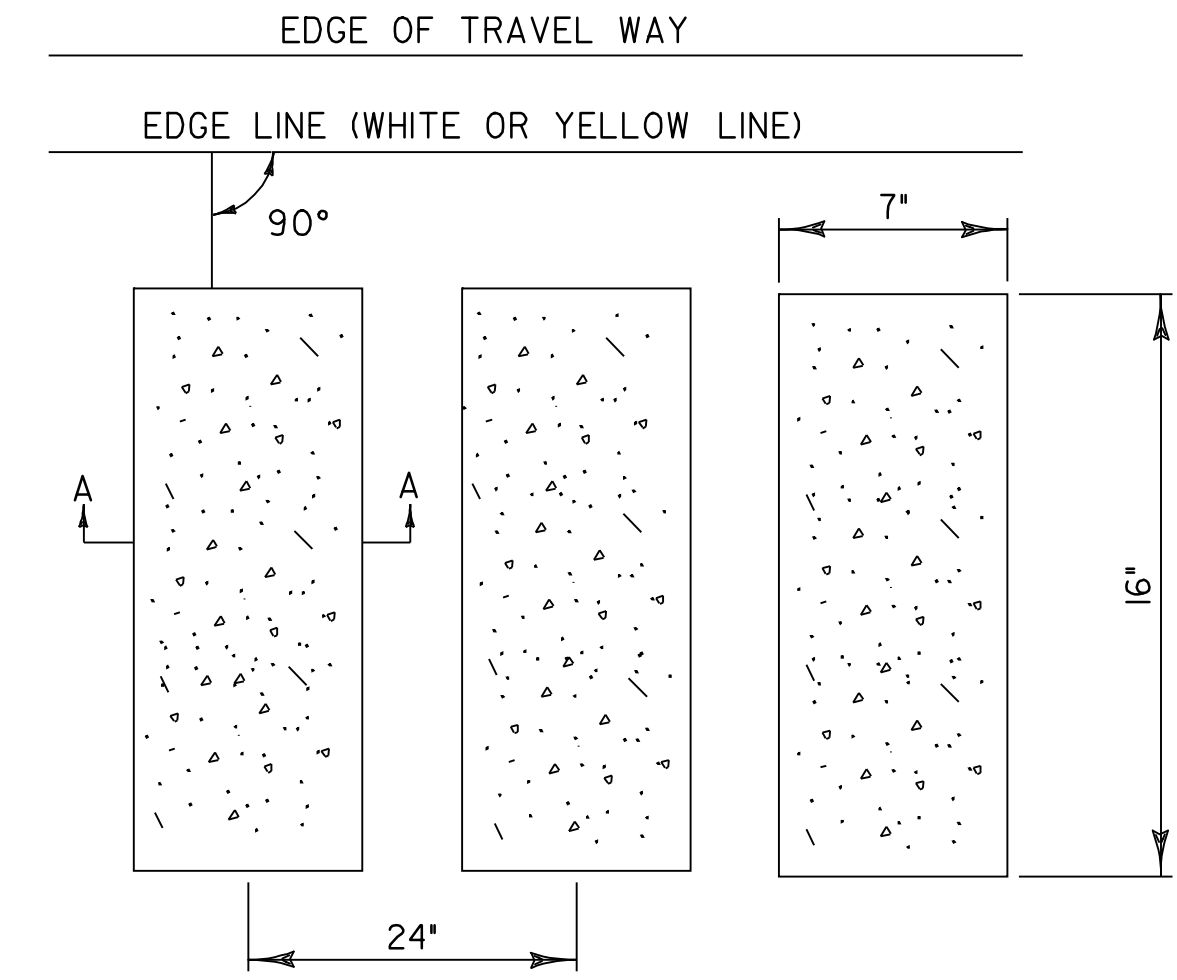


THE CONTRACTOR SHALL WIDEN WITH EARTH BORROW ADJACENT TO THE 4.0' SHOULDER TO PROVIDE BACKING FOR THE NEW GUARDRAIL AND TO CONSTRUCT A FLARE FOR THE END TERMINAL. CONSTRUCTION OF THE WIDENING AND TERMINAL FLARE SHALL BE COMPLETED IN ACCORDANCE WITH STANDARD G-19.

BULLNOSE TREATMENT DETAIL	PROJECT NAME: COLCHESTER - GEORGIA	
	PROJECT NUMBER: IM 089-3(59)	
	FILE NAME: p04g030.DGN	PLOT DATE: 12-OCT-2010 16:39
	PROJECT LEADER: EPD	DRAWN BY: RHB/SJB
DESIGNED BY: JDA	CHECKED BY: EPD	
PLOT FILE:	SHEET 15 OF 22	



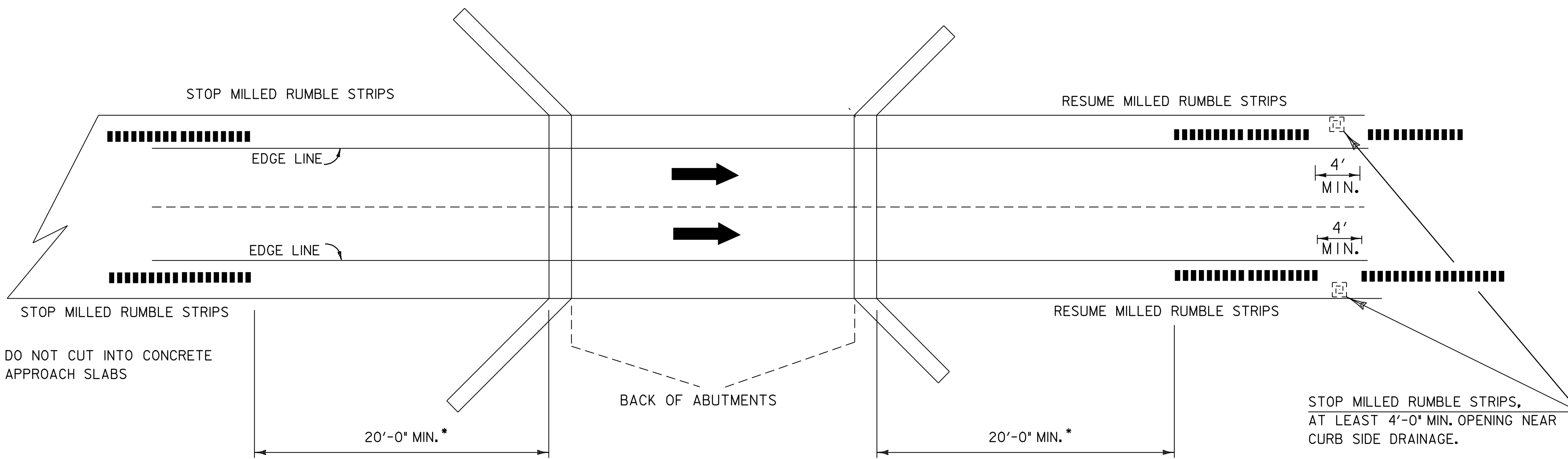
30" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS 6'-0" OR WIDER
 6" FROM EDGE LINES (WHITE OR YELLOW) FOR ALL SHOULDERS LESS THAN 6'-0" WIDE WITH NO GUARDRAIL.



NOTE: STOP MILLED RUMBLE STRIPS WITH GUARDRAIL WITHIN 4'-0" OF TRAVEL WAY.

TYPICAL RUMBLE STRIP MILLING DETAIL

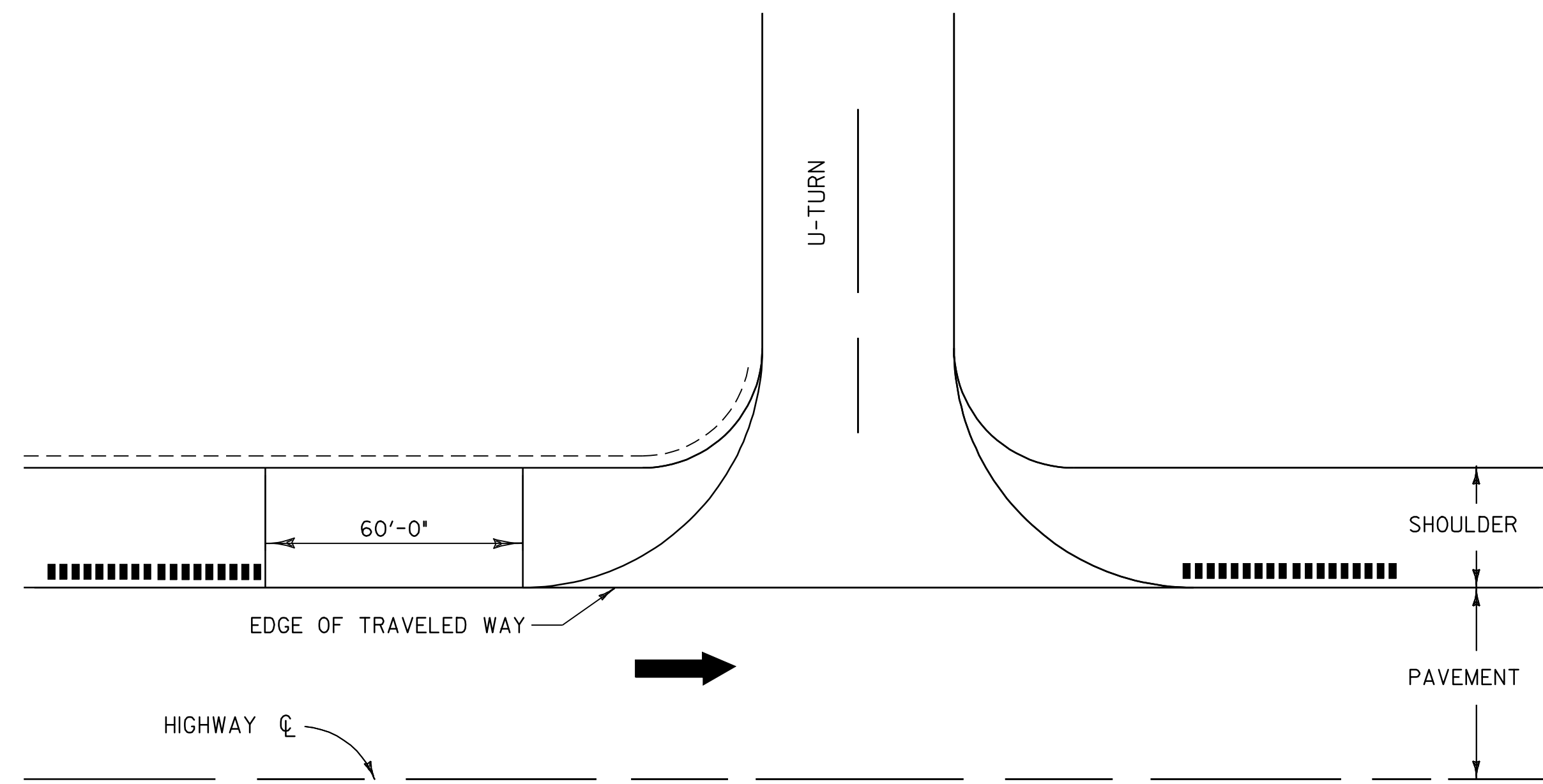
30" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS 6'-0" OR WIDER
 6" FROM EDGE LINE (WHITE OR YELLOW) FOR ALL SHOULDERS LESS THAN 6'-0" WIDE WITH NO GUARDRAIL



DO NOT CUT INTO CONCRETE APPROACH SLABS

STOP MILLED RUMBLE STRIPS, AT LEAST 4'-0" MIN. OPENING NEAR CURB SIDE DRAINAGE.

RUMBLE STRIP BRIDGE & DRAINAGE DETAIL



THIS DETAIL MAYBE MODIFIED AT THE RESIDENT ENGINEERS DISCRETION IF ACTUAL FIELD CONDITIONS NECESSITATE SUCH ACTIONS.

MILLED RUMBLE STRIPS U TURN DETAIL

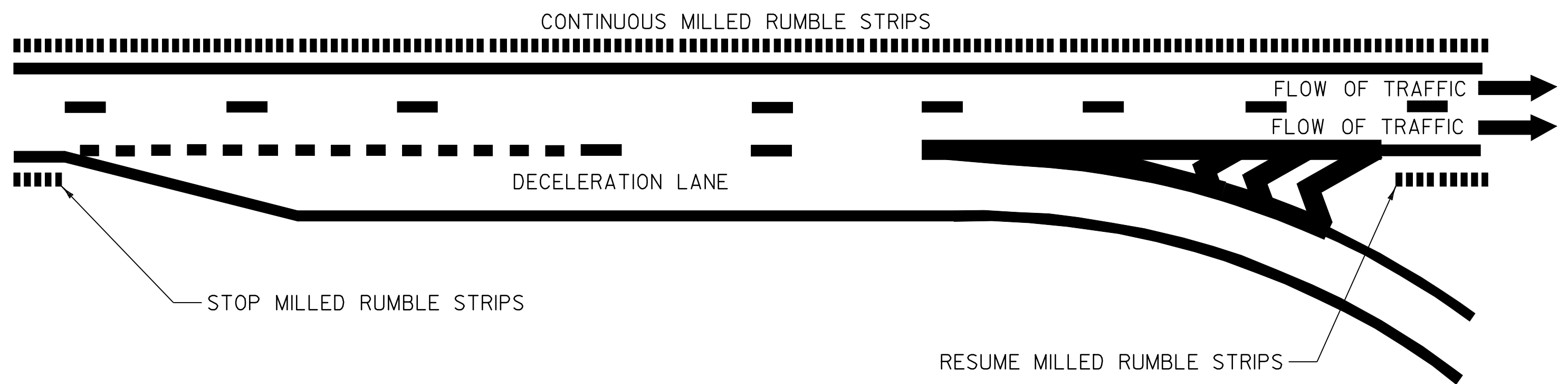
* NOTE: APPROACH RAIL WILL DETERMINE MINIMUM DISTANCE IN SOME CASES.

LEGEND	
	DIRECTION OF TRAFFIC FLOW
	MILLED RUMBLE STRIPS

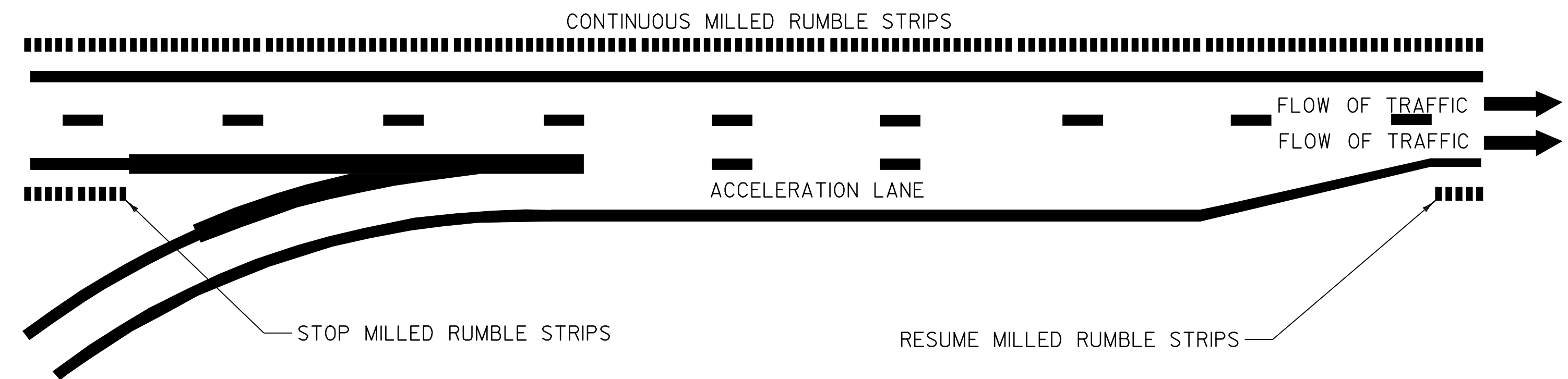
MILLED RUMBLE STRIP DETAILS

DETAILS NOT TO SCALE

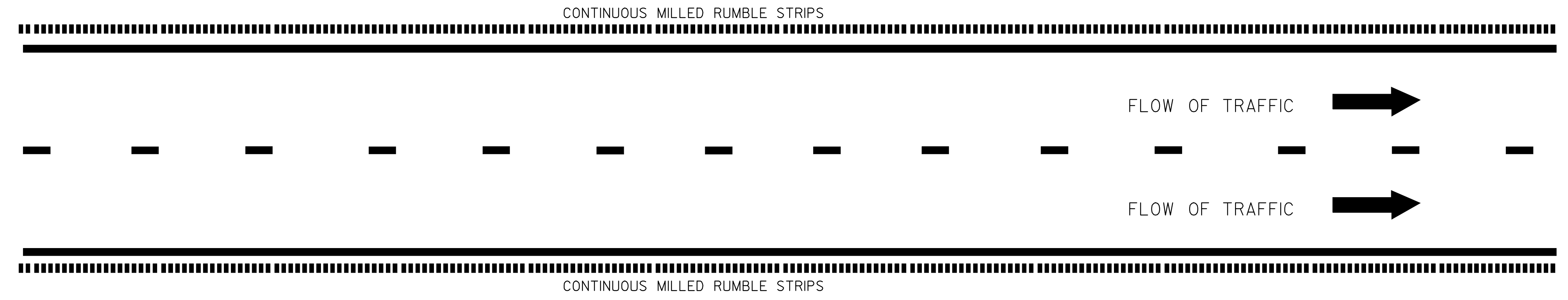
PROJECT NAME: COLCHESTER - GEORGIA	PLOT DATE: 12-OCT-2010 16:39
PROJECT NUMBER: IM 089-3(59)	DRAWN BY: RHB/SJB
FILE NAME: p04g030.DGN	CHECKED BY: EPD
PROJECT LEADER: EPD	SHEET 16 OF 22
DESIGNED BY: JDA	
PLOT FILE:	



**INTERCHANGE 17 EXIT RAMP B AND
INTERCHANGE 18 EXIT RAMP C SOUTHBOUND**





**INTERCHANGE 17 ON RAMP A SOUTHBOUND
INTERCHANGE 18 ON RAMP D SOUTHBOUND**

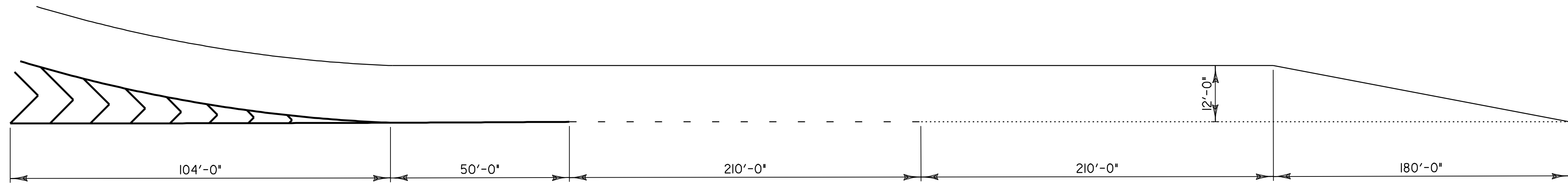


INTERSTATE 89 SOUTHBOUND

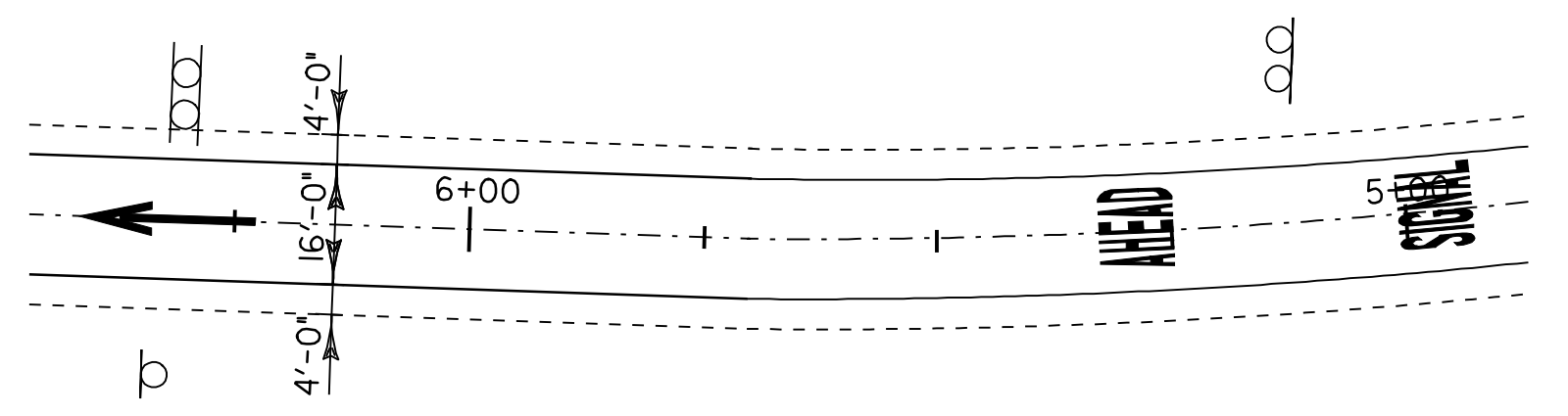
DETAILS NOT TO SCALE

LEGEND	
	DIRECTION OF TRAFFIC FLOW
	MILLED RUMBLE STRIPS

MILLED RUMBLE STRIPS DETAIL	PROJECT NAME: COLCHESTER - GEORGIA	PLOT DATE: 12-OCT-2010 16:39
	PROJECT NUMBER: IM 089-3(59)	DRAWN BY: RHB/SJB
	FILE NAME: p04g030.DGN	CHECKED BY: EPD
	DESIGNED BY: JDA	SHEET 17 OF 22
	PLOT FILE:	



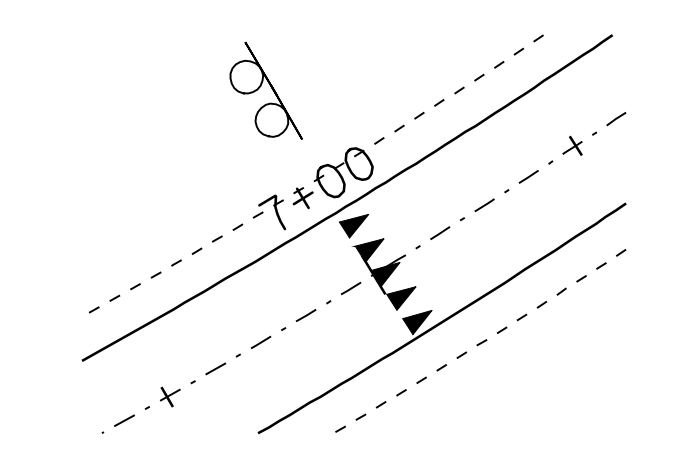
INSET A - GORE DETAIL AT EXIT 17 RAMP B



INSET B - EXIT 17 RAMP B

VEHICLE DETECTOR LOOPS								
LOOP NO.	LANE	CALL Ø	SIZE	TYPE & NO. TURNS	DELAY OR PRESENCE	INDUCTANCE CALC. ACT.	RESISTANCE CALC. ACT.	LEAKAGE TO GROUND
IA	WB RT	Ø 1	6x40	QUAD-2	PRESENCE	347	0.67	
IB	WB LT	Ø 1	6x40	QUAD-2	PRESENCE	350	0.71	

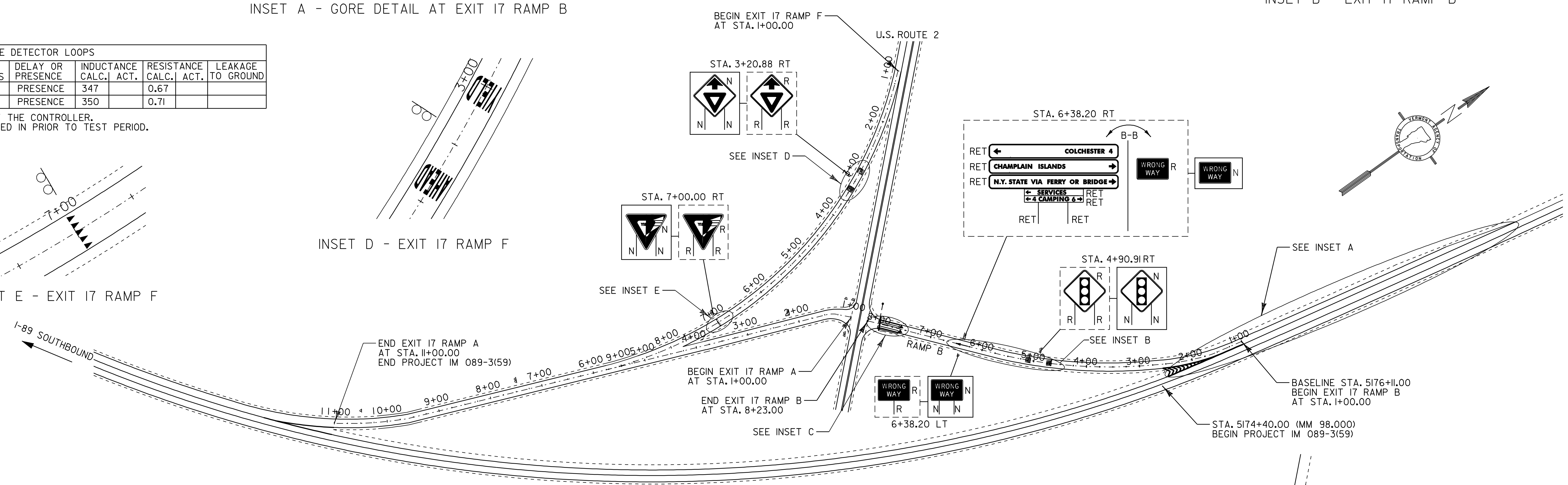
* ALL CALCULATED VALUES ARE AT THE CONTROLLER. MEASURED VALUES MUST BE FILLED IN PRIOR TO TEST PERIOD.



INSET E - EXIT 17 RAMP F

I-89 SOUTHBOUND

INSET D - EXIT 17 RAMP F



RAMP RADII INFORMATION

RAMP	RADII, FT	DESC.
A	716	RADII AT I-89 END OF RAMP
B	716	RADII AT I-89 END OF RAMP

LOOP DETECTOR NOTES

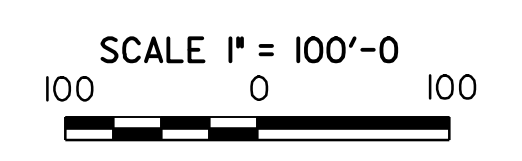
- LOOPS ON US 2 ARE NOT SHOWN ON THIS SHEET AS THERE WILL NOT BE ANY WORK DONE TO THESE LOOPS. NOT ALL SIGNAL EQUIPMENT IS SHOWN ON THIS SHEET.
- THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS, INCLUDING, BUT NOT LIMITED TO, UTILITIES, POLES, PULL BOXES, STRIPING, AND LOOP DETECTORS. THE CONTRACTOR SHALL CONFIRM ALL LOCATIONS IN THE FIELD WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.
- PRIOR TO COLD PLANING, THE CONTRACTOR SHALL DISCONNECT THE VEHICLE DETECTOR LOOP IN THE CONTROLLER CABINET AND CUT IT AT THE CURB OR SHOULDER. ONCE THE VEHICLE DETECTOR LOOP IS DISCONNECTED, THE SIGNAL PHASE THAT IT WAS CALLING SHALL BE SET ON MAXIMUM RECALL OR THE SIGNAL SHALL BE SET TO FLASH WHILE TRAFFIC IS BEING CONTROLLED BY A UNIFORMED TRAFFIC OFFICER.
- ALL PROPOSED VEHICLE DETECTOR LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE, WHICH IS IMMEDIATELY BELOW THE WEARING SURFACE. ONCE THE PROPOSED VEHICLE DETECTOR LOOP IS INSTALLED, THE INDUCTANCE, RESISTANCE AND LEAKAGE TO GROUND MUST BE TESTED USING PROPERLY CALIBRATED EQUIPMENT. THESE TEST RESULTS SHALL BE COMPARED WITH THE CALCULATED VALUES SHOWN ON THE LAYOUT PLANS AND THE FIELD MEASURED VALUES SHALL BE RECORDED ON THE LAYOUT PLANS. UPON COMPLETION OF THE INSTALLATION OF A PROPOSED VEHICLE LOOP DETECTOR, THE SIGNAL SHALL BE RETURNED TO NORMAL OPERATION.
- EXISTING TIMINGS WILL BE USED.
- WORK IMPROVEMENTS CONSISTING OF THOSE SHOWN ON PLANS SHALL BE PERFORMED ACCORDING TO SPECIFICATIONS AND STANDARD DRAWINGS OF VERMONT AGENCY OF TRANSPORTATION. VEHICLE DETECTOR LOOPS SHALL COMPLY WITH VTRANS STANDARD E-172.

- 646.414 DURABLE 6" WHITE LINE (MOD. - RETROREFLECTIVITY/INLAID)
 - STA. 5176+11LT - STA. 5182+11LT (SOLID)
 - STA. 5176+11LT - STA. 5178+21LT (DASHED)
 - STA. 5178+21LT - STA. 5182+11LT (DOTTED)
 - STA. 1+00 RT - STA. 4+25 RT EXIT 17 RAMP A (SOLID)
 - STA. 5+72 RT - STA. 11+00 RT EXIT 17 RAMP A (SOLID)
 - STA. 1+00 RT - STA. 8+23 RT EXIT 17 RAMP B (SOLID)
 - STA. 1+00 RT - STA. 9+25 RT EXIT 17 RAMP F (SOLID)
- 646.415 DURABLE 6" YELLOW LINE (MOD. - RETROREFLECTIVITY/INLAID)
 - STA. 1+00 LT - STA. 11+00 LT EXIT 17 RAMP A (SOLID)
 - STA. 2+53 LT - STA. 8+23 LT EXIT 17 RAMP B (SOLID)
 - STA. 1+00 LT - STA. 7+75 LT EXIT 17 RAMP F (SOLID)
- 646.44 DURABLE 12" WHITE LINE (MOD. - RETROREFLECTIVITY/INLAID)
 - STA. 5174+57 LT - STA. 5176+11LT (SOLID)
 - STA. 1+00 LT - STA. 2+53 LT EXIT 17 RAMP B (SOLID)
 - STA. 5174+57 LT - STA. 5176+11LT (HATCHED)
- 646.46 DURABLE 24" STOP BAR (THERMOPLASTIC)
 - STA. 8+00 EXIT 17 RAMP B

EXISTING	NEW	LEGEND
⊠	⊠	UTILITY POLE
—○—	—○—	LUMINAIRE
○	○	LIGHT OR WOOD POLE
⊙	⊙	STRAIN POLE
⊠	⊠	CONTROLLER CABINET
⊠	⊠	PULLBOX/JUNCTION BOX
—○—	—○—	SIGNAL HEAD
—BX—	—BX—	CONDUIT
⊠	⊠	VEHICLE LOOPS
⊙	⊙	PEDESTAL POST
—S	—S	STANCHION
—S	—S	SWEEP

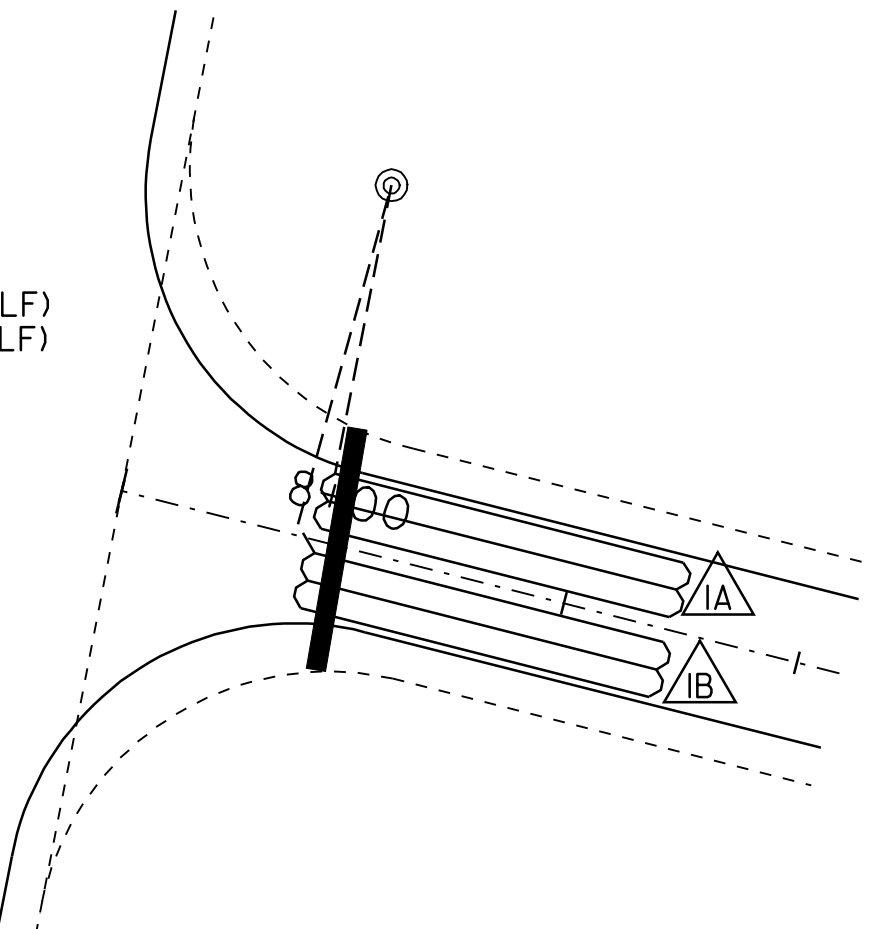
- 646.50 DURABLE LETTER OR SYMBOL (THERMOPLASTIC)
 - STA. 4+71EXIT 17 RAMP B "SIGNAL"
 - STA. 5+11EXIT 17 RAMP B "AHEAD"
 - STA. 6+39 EXIT 17 RAMP B "ARROW"
 - STA. 3+03 EXIT 17 RAMP F "YIELD"
 - STA. 3+43 EXIT 17 RAMP F "AHEAD"
 - STA. 7+00 EXIT 17 RAMP F "YIELD TRIANGLES" (5)
- 646.614 TEMPORARY 6" WHITE LINE (PAINT)
 - STA. 5176+11LT - STA. 5182+11LT (SOLID)
 - STA. 5176+11LT - STA. 5178+21LT (DASHED)
 - STA. 5178+21LT - STA. 5182+11LT (DOTTED)
 - STA. 1+00 RT - STA. 4+25 RT EXIT 17 RAMP A (SOLID)
 - STA. 5+72 RT - STA. 11+00 RT EXIT 17 RAMP A (SOLID)
 - STA. 1+00 RT - STA. 8+23 RT EXIT 17 RAMP B (SOLID)
 - STA. 1+00 RT - STA. 9+25 RT EXIT 17 RAMP F (SOLID)
- 646.615 TEMPORARY 6" YELLOW LINE (PAINT)
 - STA. 1+00 LT - STA. 11+00 LT EXIT 17 RAMP A (SOLID)
 - STA. 2+53 LT - STA. 8+23 LT EXIT 17 RAMP B (SOLID)
 - STA. 1+00 LT - STA. 7+75 LT EXIT 17 RAMP F (SOLID)
- 646.64 TEMPORARY 12" WHITE LINE (PAINT)
 - STA. 5174+57 LT - STA. 5176+11LT (SOLID)
 - STA. 1+00 LT - STA. 2+53 LT EXIT 17 RAMP B (SOLID)
 - STA. 5174+57 LT - STA. 5176+11LT (HATCHED)
- 646.66 TEMPORARY 24" STOP BAR (PAINT)
 - STA. 8+00 EXIT 17 RAMP B
- 646.70 TEMPORARY LETTER OR SYMBOL (PAINT)
 - STA. 4+71EXIT 17 RAMP B "SIGNAL"
 - STA. 5+11EXIT 17 RAMP B "AHEAD"
 - STA. 6+39 EXIT 17 RAMP B "ARROW"
 - STA. 3+03 EXIT 17 RAMP F "YIELD"
 - STA. 3+43 EXIT 17 RAMP F "AHEAD"
 - STA. 7+00 EXIT 17 RAMP F "YIELD TRIANGLES" (5)
- 675.50 REMOVING SIGN
 - AS SHOWN - 5

- 678.22 VEHICLE LOOP DETECTOR
 - STA. 7+65 RT - STA. 8+05 RT EXIT 17 RAMP B (92 LF)
 - STA. 7+65 LT - STA. 8+05 LT EXIT 17 RAMP B (92 LF)



LEGEND

- N = NEW
 - R = REMOVE
 - B-B = BACK TO BACK
 - RET = RETAIN
- REFER TO STANDARDS E-191 & E-192 FOR ADDITIONAL DETAILS.



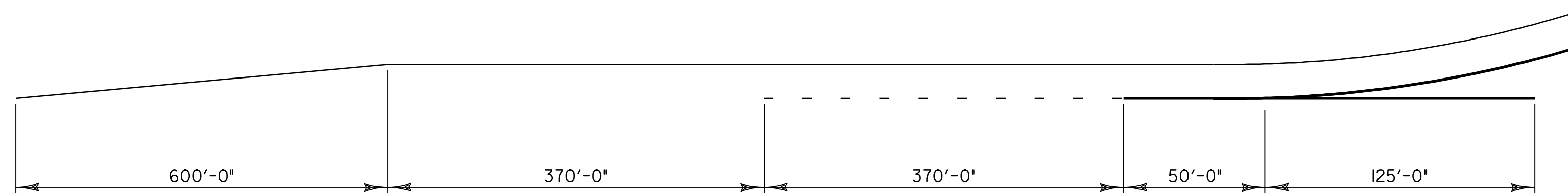
INSET C - EXIT 17 RAMP B

NOTE:

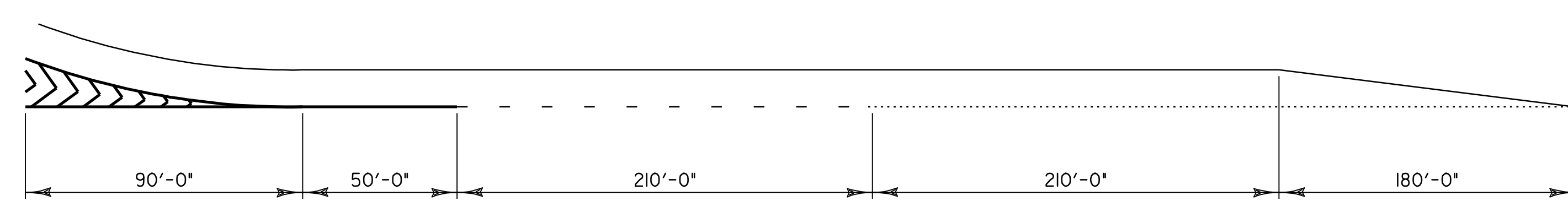
BURIED COMMUNICATION CABLES EXIST AT EXIT 17. BUT ARE NOT SHOWN ON THIS PLAN. THESE CABLES ARE TO BE AVOIDED DURING CONSTRUCTION.

RAMP DETAIL SHEET INTERCHANGE #17

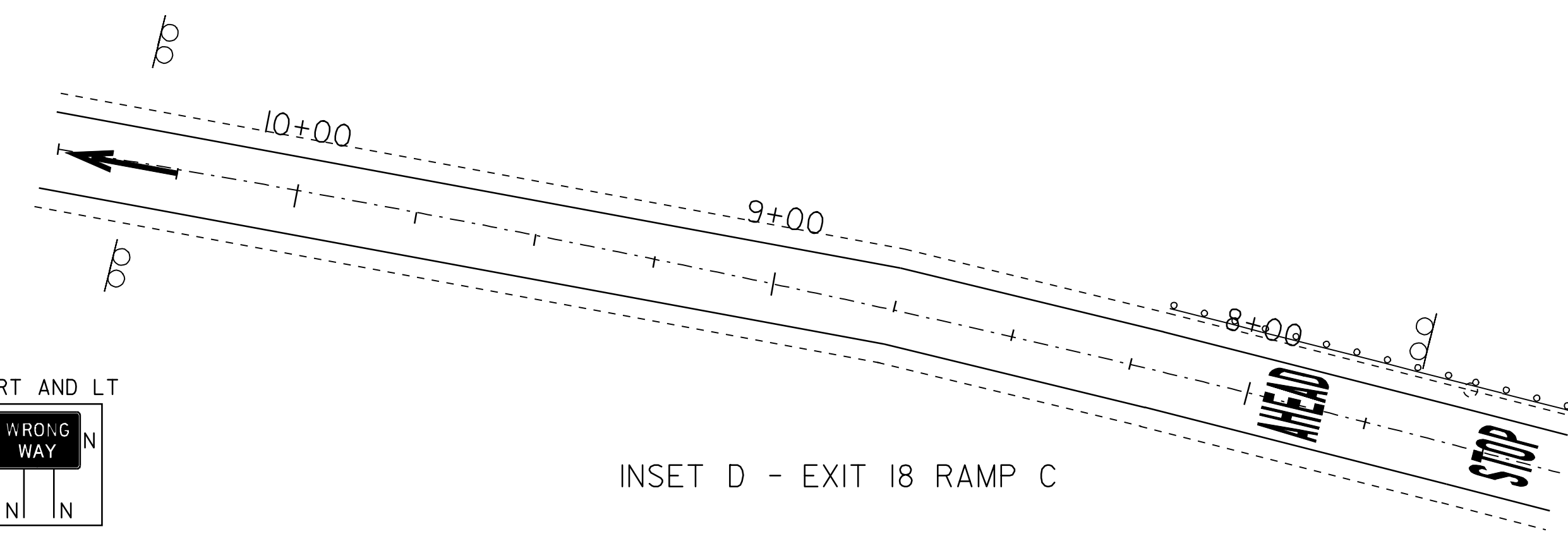
PROJECT NAME: COLCHESTER - GEORGIA	PLOT DATE: 12-OCT-2010 16:39
PROJECT NUMBER: IM 089-3(59)	DRAWN BY: RHB/SJB
FILE NAME: p04g030.DGN	CHECKED BY: EPD
PROJECT LEADER: EPD	DESIGNED BY: JDA
DESIGNED BY: JDA	SHEET 18 OF 22
PLOT FILE:	



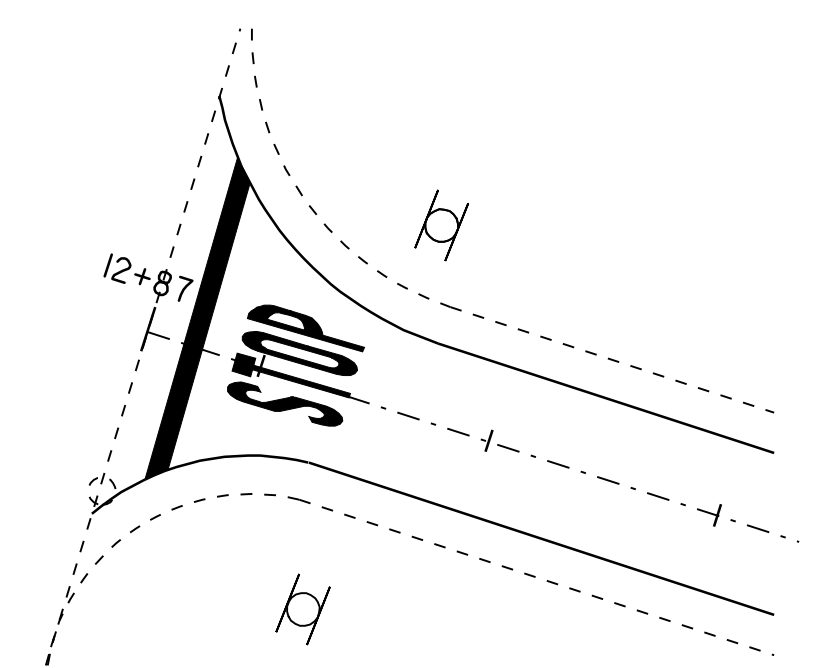
INSET A - GORE DETAIL AT EXIT 18 RAMP D



INSET B - GORE DETAIL AT EXIT 18 RAMP C



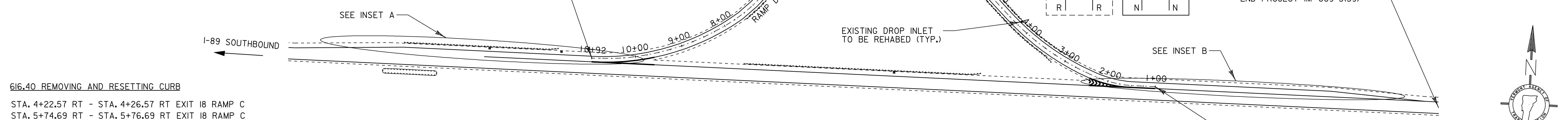
INSET D - EXIT 18 RAMP C



INSET C - EXIT 18 RAMP C

RAMP RADII INFORMATION

RAMP	RADII, FT	DESC.
C	477/2865	RADII AT I-89 END OF RAMP/RADII NEAR US 7
D	230/328/475	RADII FROM US 7 HEADING TOWARD I-89



616.40 REMOVING AND RESETTING CURB

STA. 4+22.57 RT - STA. 4+26.57 RT EXIT 18 RAMP C
 STA. 5+74.69 RT - STA. 5+76.69 RT EXIT 18 RAMP C

604.412 REHABING DI, CB OR MH CLASS 1

STA. 4+24.57 RT EXIT 18 RAMP C
 STA. 5+74.69 RT EXIT 18 RAMP C

621.505 MANUFACTURED TERMINAL SECTION (FLARED)

STA. 3+98.14 LT - STA. 4+35.64 LT EXIT 18 RAMP D
 STA. 2+90.69 RT - STA. 3+28.19 RT EXIT 18 RAMP C
 STA. 3+23.17 LT - STA. 3+60.67 LT EXIT 18 RAMP C

621.52 TRAILING END TERMINAL

STA. 7+42.23 LT - STA. 7+54.73 LT EXIT 18 RAMP D
 STA. 7+07.60 LT - STA. 7+20.10 LT EXIT 18 RAMP C
 STA. 7+55.32 RT - STA. 7+67.82 RT EXIT 18 RAMP C

646.414 DURABLE 6" WHITE LINE (MOD. - RETROREFLECTIVITY/INLAID)

STA. 5613+48 LT - STA. 5626+88 LT (SOLID)
 STA. 5622+75 LT - STA. 5626+45 LT (DASHED)
 STA. 1+00 RT - STA. 10+92 RT EXIT 18 RAMP D (SOLID)
 STA. 5638+58 LT - STA. 5644+58 LT (SOLID)
 STA. 5638+58 LT - STA. 5640+68 LT (DASHED)
 STA. 5640+68 LT - STA. 5644+58 LT (DOTTED)
 STA. 1+00 RT - STA. 12+87 RT EXIT 18 RAMP C (SOLID)

646.415 DURABLE 6" YELLOW LINE (MOD. - RETROREFLECTIVITY/INLAID)

STA. 1+00 LT - STA. 9+61 LT EXIT 18 RAMP D (SOLID)
 STA. 2+39 LT - STA. 12+87 LT EXIT 18 RAMP C (SOLID)

646.44 DURABLE 12" WHITE LINE (MOD. - RETROREFLECTIVITY/INLAID)

STA. 5626+45 LT - STA. 5628+21 LT (SOLID)
 STA. 9+59 LT - STA. 10+92 LT EXIT 18 RAMP D (SOLID)
 STA. 5637+18 LT - STA. 5638+58 LT (SOLID)
 STA. 1+00 LT - STA. 2+40 LT EXIT 18 RAMP C (SOLID)
 STA. 5637+18 LT - STA. 5638+58 LT (HATCHED)

646.46 DURABLE 24" STOP BAR (THERMOPLASTIC)

STA. 12+83 EXIT 18 RAMP C

646.50 DURABLE LETTER OR SYMBOL (THERMOPLASTIC)

STA. 7+48 EXIT 18 RAMP C "STOP"
 STA. 7+88 EXIT 18 RAMP C "AHEAD"
 STA. 10+33 EXIT 18 RAMP C "ARROW"
 STA. 12+72 EXIT 18 RAMP C "STOP"

646.614 TEMPORARY 6" WHITE LINE (PAINT)

STA. 5613+48 LT - STA. 5626+88 LT (SOLID)
 STA. 5622+75 LT - STA. 5626+45 LT (DASHED)
 STA. 1+00 RT - STA. 10+92 RT EXIT 18 RAMP D (SOLID)
 STA. 5638+58 LT - STA. 5644+58 LT (SOLID)
 STA. 5638+58 LT - STA. 5640+68 LT (DASHED)
 STA. 5640+68 LT - STA. 5644+58 LT (DOTTED)
 STA. 1+00 RT - STA. 12+87 RT EXIT 18 RAMP C (SOLID)

646.615 TEMPORARY 6" YELLOW LINE (PAINT)

STA. 1+00 LT - STA. 9+61 LT EXIT 18 RAMP D (SOLID)
 STA. 2+39 LT - STA. 12+87 LT EXIT 18 RAMP C (SOLID)

646.64 TEMPORARY 12" WHITE LINE (PAINT)

STA. 5626+45 LT - STA. 5628+21 LT (SOLID)
 STA. 9+59 LT - STA. 10+92 LT EXIT 18 RAMP D (SOLID)
 STA. 5637+18 LT - STA. 5638+58 LT (SOLID)
 STA. 1+00 LT - STA. 2+40 LT EXIT 18 RAMP C (SOLID)
 STA. 5637+18 LT - STA. 5638+58 LT (HATCHED)

646.70 TEMPORARY LETTER OR SYMBOL (PAINT)

STA. 7+48 EXIT 18 RAMP C "STOP"
 STA. 7+88 EXIT 18 RAMP C "AHEAD"
 STA. 10+33 EXIT 18 RAMP C "ARROW"
 STA. 12+72 EXIT 18 RAMP C "STOP"

646.66 TEMPORARY 24" STOP BAR (PAINT)

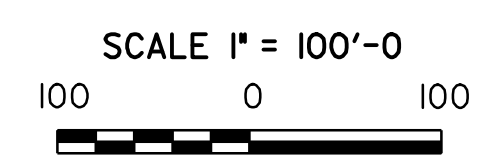
STA. 12+83 EXIT 18 RAMP C

675.50 REMOVING SIGN

AS SHOWN - 9

NOTE:

BURIED COMMUNICATION CABLES EXIST AT EXIT 18 BUT ARE NOT SHOWN ON THIS PLAN. THESE CABLES ARE TO BE AVOIDED DURING CONSTRUCTION.



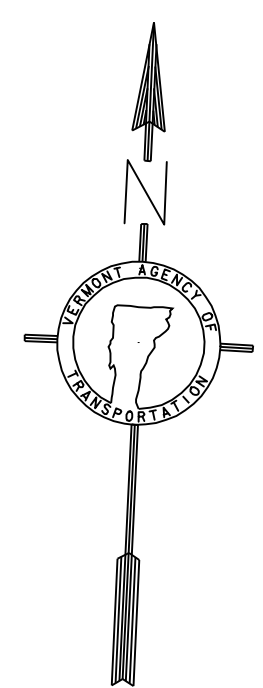
RAMP DETAIL SHEET INTERCHANGE #18

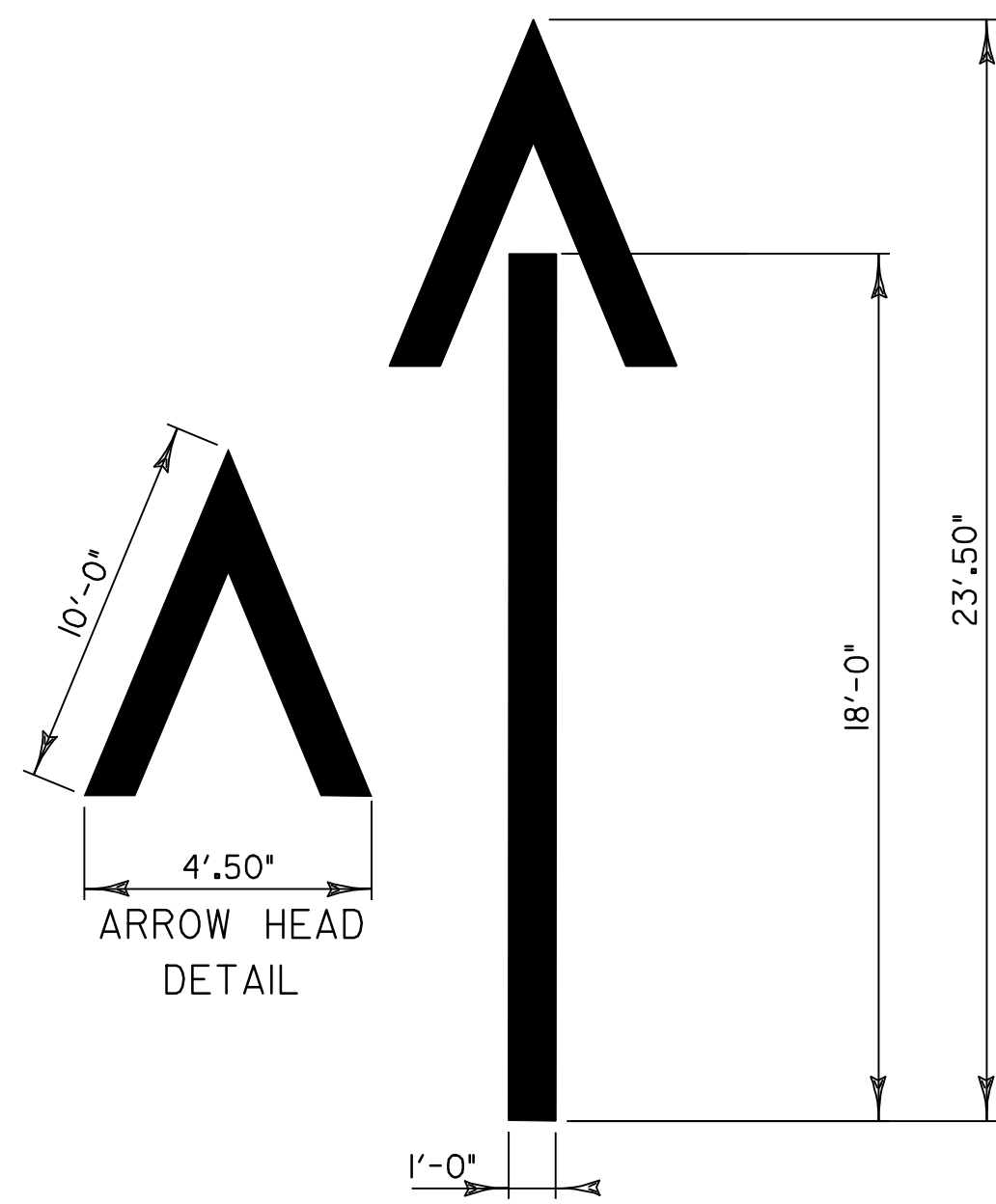
PROJECT NAME: COLCHESTER - GEORGIA
 PROJECT NUMBER: IM 089-3(59)

FILE NAME: p04g030.DGN
 PROJECT LEADER: EPD
 DESIGNED BY: JDA
 PLOT FILE:

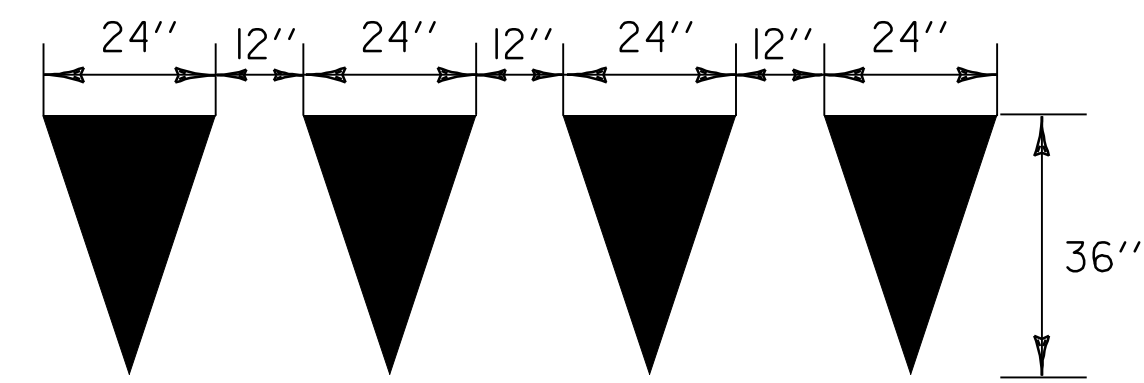
PLOT DATE: 12-OCT-2010 16:39
 DRAWN BY: RHB/SJB
 CHECKED BY: EPD
 SHEET 19 OF 22

LEGEND
 N = NEW
 R = REMOVE
 B-B = BACK TO BACK
 RET = RETAIN
 REFER TO STANDARDS E-191 & E-192 FOR ADDITIONAL DETAILS.





WRONG WAY ARROW

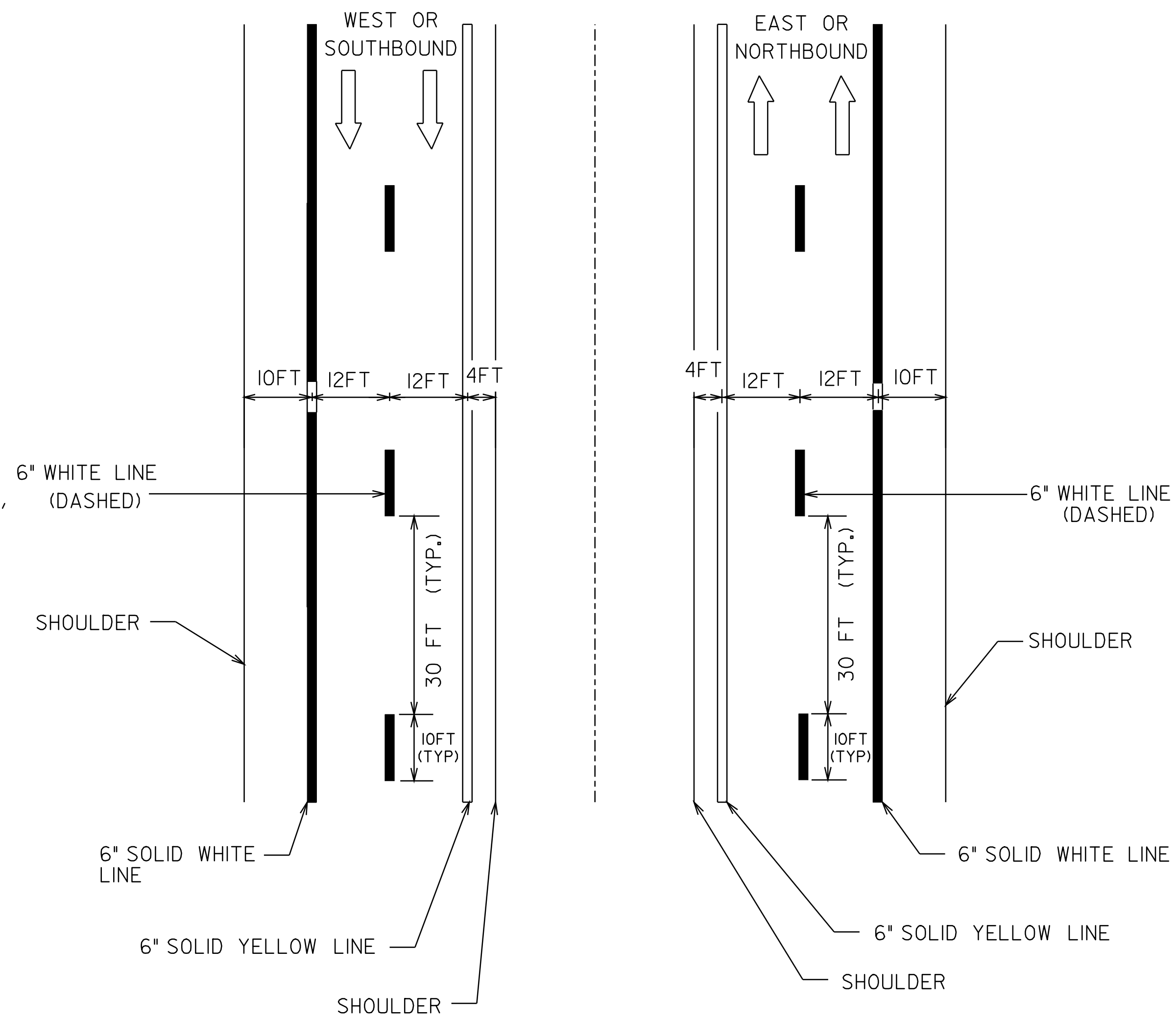


YIELD LINE DETAILS

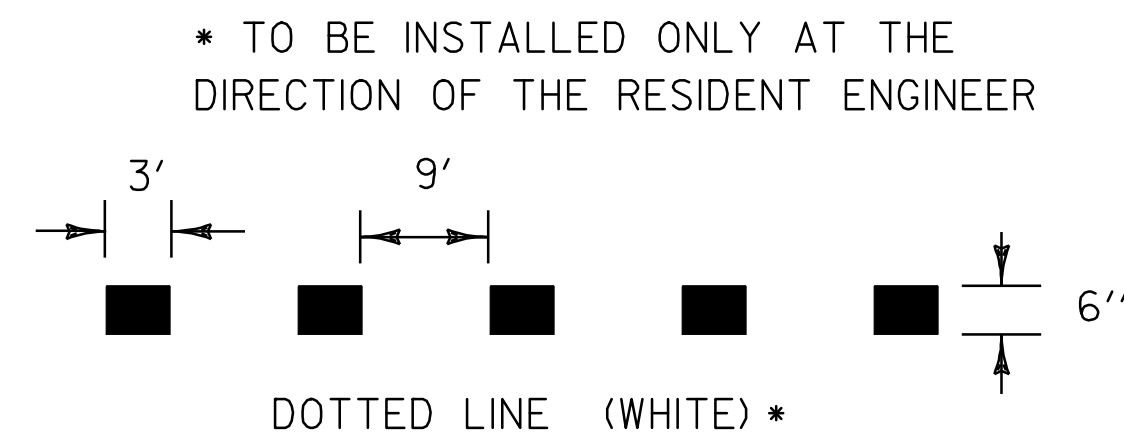
TO BE PAID AS ONE LETTER OR SYMBOL PER TRIANGLE.



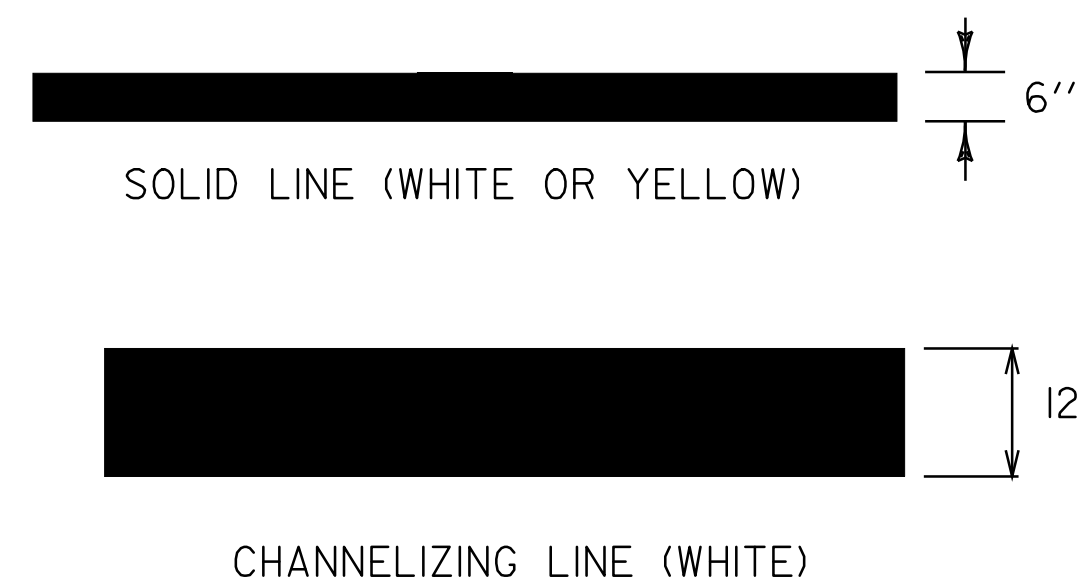
STOP BAR DETAIL



TYPICAL MAINLINE MARKING PLAN



DOTTED LINE (WHITE) *



SOLID LINE (WHITE OR YELLOW)

CHANNELIZING LINE (WHITE)

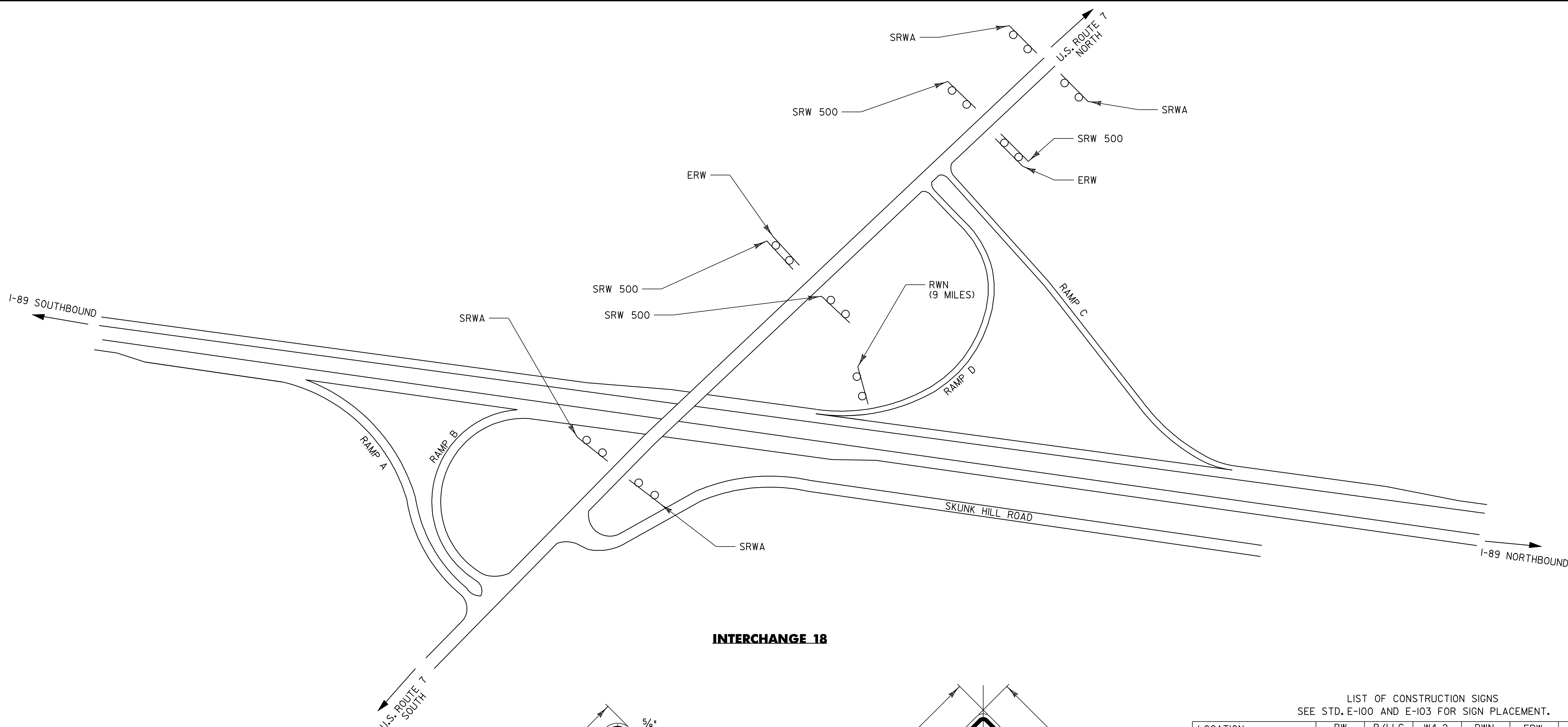
LEGEND

- 6" WHITE LINES
- 6" YELLOW LINES
- DIRECTION OF TRAFFIC FLOW

PAVEMENT MARKING LINE DETAILS

ALL DETAILS NOT TO SCALE

DETAILS SHEET	PROJECT NAME: COLCHESTER - GEORGIA	
	PROJECT NUMBER: IM 089-3(59)	
	FILE NAME: p04g030.DGN	PLOT DATE: 12-OCT-2010 16:39
	PROJECT LEADER: EPD	DRAWN BY: RHB/SJB
DESIGNED BY: JDA	CHECKED BY: EPD	
PLOT FILE:		SHEET 20 OF 22

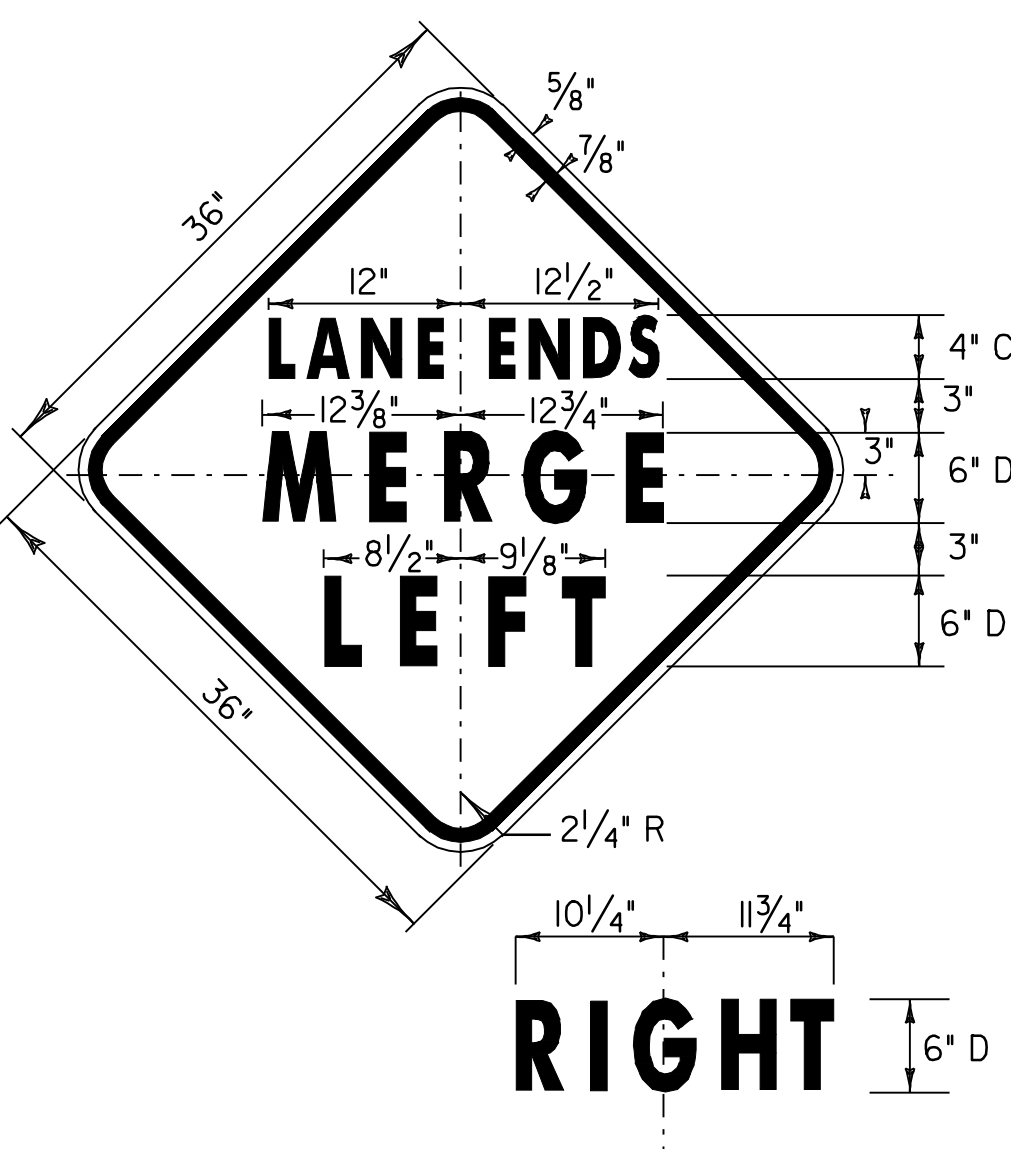


INTERCHANGE 18

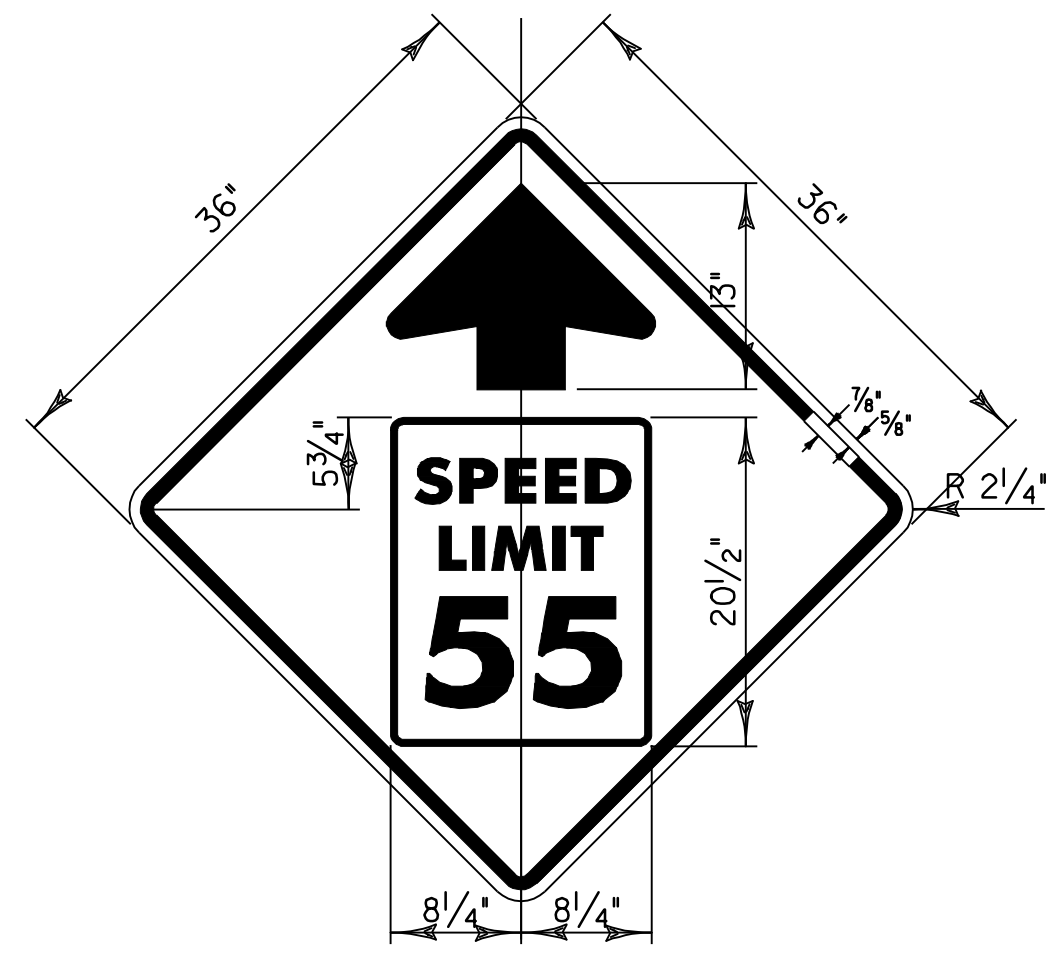
NOTES:

- ADDITIONAL RAMP SIGNING MAY BE REQUIRED AS DIRECTED BY THE RESIDENT ENGINEER.
- THE BID PRICE FOR TRAFFIC CONTROL, ITEM 641.10, SHALL INCLUDE ALL APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, BARRIERS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARD E-103, "MAINLINE TRAFFIC CONTROL - DIVIDED HIGHWAY". ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE RESIDENT ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY:

646.614, 646.615 AND 646.64 - TEMPORARY PAVEMENT MARKINGS
630.10 AND 630.15 - UNIFORMED TRAFFIC OFFICERS AND FLAGGERS
- PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE PROVIDED FOR USE ALONG THIS PROJECT. THE PLACEMENT OF THESE PORTABLE UNITS AS WELL AS THE MESSAGE WILL BE APPROVED BY THE RESIDENT ENGINEER. THIS QUANTITY IS PAID FOR AS PART OF ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN".
- ON VTRANS STANDARD E-103, SIGN W4-2 MAY BE REPLACED WITH W9-2:



NOTE:
1. "MERGE" - D (10% SPACING)



W3-5
BORDER & ARROW - BLACK
SYMBOL - INSERT R2-1
BACKGROUND - ORANGE (RETROREFLECTIVE)

LIST OF CONSTRUCTION SIGNS
SEE STD. E-100 AND E-103 FOR SIGN PLACEMENT.

LOCATION	RW 1 MILE	R/LLC 1/2 MILE	W4-2	RWN	ERW	SRWA	SRW 500
INTERSTATE 89 SB	4	4	4	4	4		
EXIT 18 RAMP D				1			
U.S. ROUTE 2					2	4	4
U.S. ROUTE 7					2	4	4
TOTALS	4	4	4	5	8	8	8

NOTE:
THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN APPROACH PACKAGE FOR EXPECTED LANE CLOSURES AND WORKZONE SPEED REDUCTIONS IN COMPLIANCE WITH STD. E-103. PAYMENT FOR THIS PACKAGE SHALL BE INCIDENTAL TO ITEM 641.10, "TRAFFIC CONTROL".



LEGEND

- RW 1 MILE = ROAD WORK 1 MILE
- R/LLC 1/2 MILE = RIGHT LANE CLOSED 1/2 MILE/OR LEFT LANE
- RWN = ROAD WORK NEXT (X MILES)
- ERW = END ROAD WORK
- SRWA = SIDE ROAD WORK AHEAD
- SRW 500 = SIDE ROAD WORK 500 FT

**CONSTRUCTION
APPROACH
SIGNING
INTERCHANGE
#18**

PROJECT NAME: COLCHESTER - GEORGIA
PROJECT NUMBER: IM 089-3(59)
FILE NAME: p04g030.DGN
PROJECT LEADER: EPD
DESIGNED BY: JDA
PLOT FILE:
PLOT DATE: 12-OCT-2010 16:39
DRAWN BY: RHB/SJB
CHECKED BY: EPD
SHEET 22 OF 22