



SHELBY COUNTY

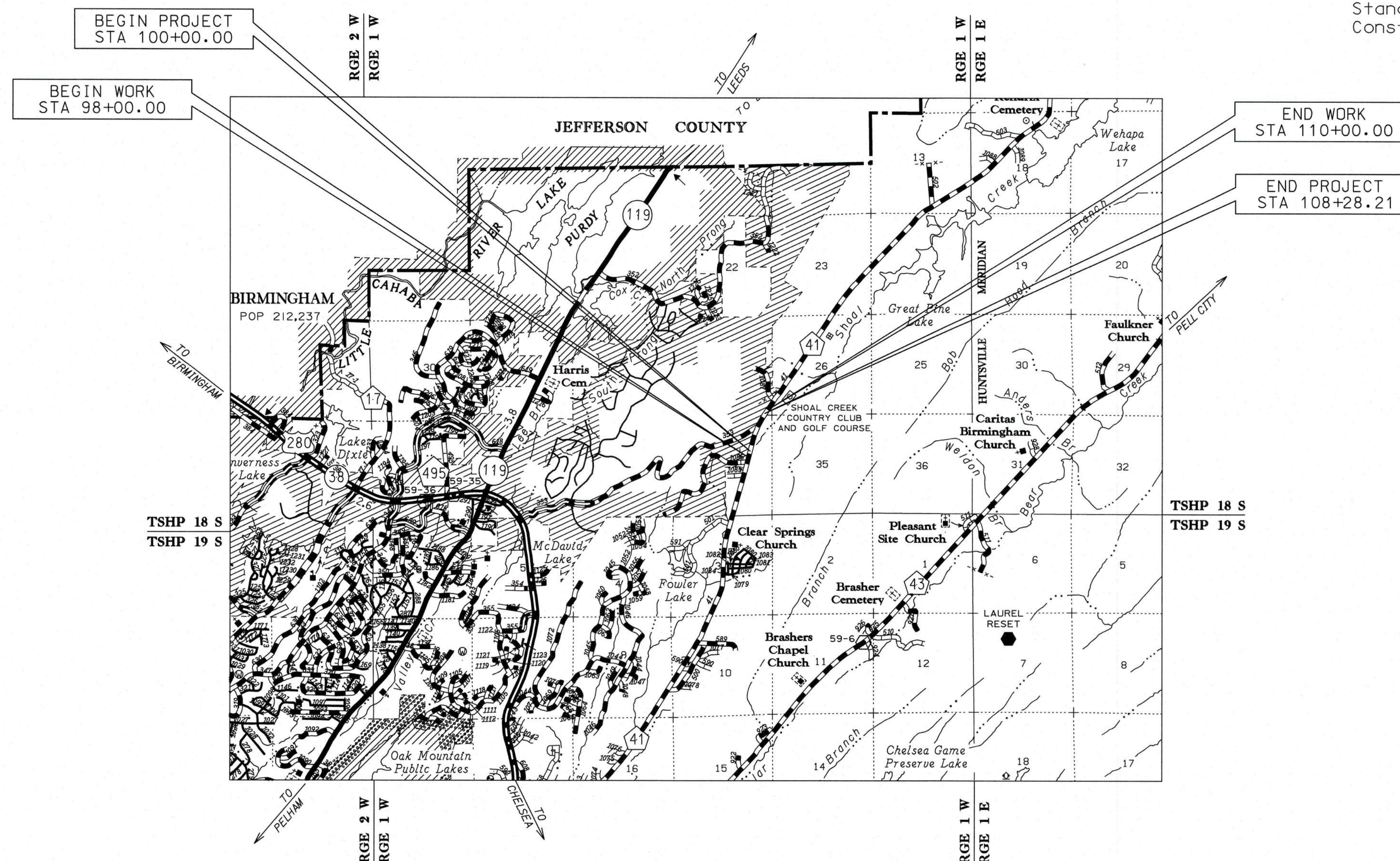
PLANS OF PROPOSED PROJECT NUMBER
SCP 59-900-19

INTERSECTION IMPROVEMENTS AT CR-41 AND HUGH DANIEL DRIVE
BASE AND PAVE, WIDENING, AND TRAFFIC SIGNAL
SHELBY COUNTY

STATE	REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.	LAST SHEET NO.
AL	SCP 59-900-19	2020	1	100
CONTRACT ID NO				

Design Designation	
ADT (2019)	XX
ADT (2039)	XX
K	XX
D	XX
TDHV	XX
TADT	XX
V (Design Speed) (m.p.h.)	40
Min. Stopping Sight Dist.	305'

These plans have been prepared to conform to the Alabama Department of Transportation Standard Specifications for Highway Construction, 2020 Edition.



SHELBY COUNTY HIGHWAY DEPARTMENT
Submitted for Approval
COUNTY ENGINEER


Total Stationing of Project	828.21 FT	
Equations & Exceptions	N/A	
Net Length of Project	828.21 FT	0.156 MI
Net Length of Bridges	N/A	0.156 MI
Net Length of Roadways	828.21 FT	0.156 MI


VICINITY MAP
POPULATIONS ARE FROM 2010 CENSUS

PLANS PREPARED BY:
GONZALEZ - STRENGTH & ASSOCIATES, INC.
ENGINEERING, LAND PLANNING, SURVEYING, TRAFFIC/TRANSPORTATION



James R. Brown 1-29-20
JAMES R. BROWN, P.E.
AL PROFESSIONAL REGISTRATION NO. 15858


INDEX TO SHEETS						REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
						SCP 59-900-19	2020	1-A
SHEET NO	SHEET NO	DESCRIPTION	DESCRIPTION					
1		TITLE SHEET						
1-A		INDEX TO SHEETS						
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11 THRU 19		OMIT						
20		SIGNING AND STRIPING LAYOUT SHEET						
21 THRU 29		OMIT						
30		UTILITY PLAN SHEET						
31		TRAFFIC SIGNAL PLAN SHEET						
32		TRAFFIC SIGNAL DETAILS						
33 THRU 39		OMIT						
40		TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION AND QUANTITIES						
41		TRAFFIC CONTROL PLAN TYPICAL SECTION						
42		TRAFFIC CONTROL PLAN - PHASE II						
43		TRAFFIC CONTROL PLAN - PHASE III						
44 THRU 46		TRAFFIC CONTROL PLAN SPECIAL PROJECT DETAILS						
47 THRU 49		OMIT						
50		EROSION AND SEDIMENT CONTROL PLANS LEGEND						
51		EROSION AND SEDIMENT CONTROL PLAN SHEETS (INITIAL PHASE)						
52		EROSION AND SEDIMENT CONTROL PLAN SHEETS (INTERMEDIATE PHASE)						
53		EROSION AND SEDIMENT CONTROL PLAN SHEETS (FINAL CONSTRUCTION)						
54 THRU 59		OMIT						
60		DRAINAGE CROSS SECTION SHEET						
61 THRU 69		OMIT						
70 THRU 74		ROADWAY CROSS SECTIONS						
75 THRU 99		OMIT						
100		EARTHWORK SUMMARY SHEET						
				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
				FINAL			INDEX TO SHEETS	CR-41

INDEX TO SPECIAL AND STANDARD DRAWINGS							REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
							SCP 59-900-19	2020	1-B
THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL & STANDARD HIGHWAY DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENTS) DATED 2020 WHICH APPLY TO THIS PROJECT:									
INDEX NO.	DRAWING NO.	DESCRIPTION				INDEX NO.	DRAWING NO.	DESCRIPTION	
61905	HW-614-B (PC) (SHEET 1 OF 2)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE				71060	SHS-1	STANDARD HIGHWAY SIGNS	
61906	HW-614-B (PC) (SHEET 2 OF 2)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE				71069	SHS-10	STANDARD HIGHWAY SIGNS	
61909	HW-614-B (SHEET 1 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE				71075	SHS-13	STANDARD HIGHWAY SIGNS	
61910	HW-614-B (SHEET 2 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE				71090	SHS-26	STANDARD HIGHWAY SIGNS	
65901	ESC-509	DETAILS OF ROLLED AND HYDRAULIC EROSION CONTROL PRODUCT INSTALLATION				71092	SHS-28	STANDARD HIGHWAY SIGNS	
66501	ESC-100-1	BEST MANAGEMENT PRACTICE REFERENCE MATRIX				71093	SHS-29	STANDARD HIGHWAY SIGNS	
66502	ESC-100-2	BEST MANAGEMENT PRACTICE REFERENCE MATRIX				71094	SHS-30	STANDARD HIGHWAY SIGNS	
66505	ESC-200-1	TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS				71095	SHS-31	STANDARD HIGHWAY SIGNS	
66506	ESC-200-2	DETAILS OF TEMPORARY SLOPE DRAIN, BERMS, AND ENERGY DISSIPATOR				74001	B-107-2	PERFORATED SQUARE STEEL TUBING (PSST) BARRICADES TYPE I, TYPE II, AND TYPE III & VERTICAL PANELS TYPE I AND TYPE II	
66507	ESC-200-3	DETAILS OF SEDIMENT BARRIER APPLICATIONS							
66508	ESC-200-4	DETAILS OF SILT FENCE INSTALLATION							
66509	ESC-200-5	DETAILS OF SEDIMENT RETENTION BARRIER							
66512	ESC-300-1	DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS							
66513	ESC-300-2	DETAILS OF HAY BALE DITCH CHECKS							
66514	ESC-300-3	DETAILS OF SANDBAG DITCH CHECKS							
66515	ESC-300-4	DETAILS OF EROSION CONTROL WATTLE DITCH CHECKS							
66516	ESC-300-5	DETAILS OF SILT DIKE DITCH CHECKS							
66517	ESC-300-6	DETAILS OF ROCK DITCH CHECKS							
66418	ESC-300-7	DETAILS OF ROCK DITCH CHECKS WITH SUMP EXCAVATION							
66519	ESC-300-8	DETAILS OF SILT FENCE DITCH CHECKS							
66522	ESC-400-1	INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS							
66523	ESC-400-2	INLET PROTECTION DETAILS OF COARSE AGGREGATE ON GRADES AND SAGS							
66524	ESC-400-3	INLET PROTECTION DETAILS OF WATTLES							
66525	ESC-400-4	INLET PROTECTION DETAILS OF SILT FENCE							
66526	ESC-400-5	INLET PROTECTION DETAILS OF SAND BAGS							
66529	ESC-501	FLOATING BASIN BOOM							
66532	ESC-502	STABILIZED CONSTRUCTION ENTRANCE							
66535	ESC-503	TEMPORARY DEWATERING STRUCTURES							
66538	ESC-504	TEMPORARY CULVERT STREAM CROSSING							
66541	ESC-505	TEMPORARY STREAM DIVERSION							
66544	ESC-506-1	SUSPENDE PIPE DIVERSION (DOWNSTREAM)							
66545	ESC-506-2	SUSPENDE PIPE DIVERSION (UPSTREAM)							
66548	ESC-507	TEMPORARY SEDIMENTATION BASIN							
67201	ESC-508	FLOCCULANT USAGE GUIDE							
68001	GN-2 NOTES	STANDARD DESIGN NOTES FOR PLAN ASSEMBLIES							
68004	TO-107	DETAILS OF INTERSECTIONS AND TURNOUTS							
70101	PS-701-6	DETAILS OF TRAFFIC STRIPING FOR 2 LANE HIGHWAYS							
70133	PS-701-7	STRIPING DETAILS OF DROP LANES AND TURN LANES							
70301	TCM-703 (SHEET 1 OF 2)	PAVEMENT LEGENDS AND MARKINGS							
70302	TCM-703 (SHEET 2 OF 2)	PAVEMENT LEGENDS AND MARKINGS							
70501	PM-705-1	DETAILS OF PAVEMENT MARKERS CLASS A, A-H, AND B							
70504	PM-705-2	DETAILS SHOWING APPLICATION OF PAVEMENT MARKERS							
71017	IHS-710-12	DETAILS OF ROADWAY SIGN POSTS (SMALL CHANNEL AND TUBULAR SECTION)							
71032	IHS-710-21	DETAILS OF LOCATION AND MOUNTING OF STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS							
71035	IHS-710-23	LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS							
71041	SL-710	TYPICAL STOP AND YIELD SIGN LOCATIONS							
71050	SHS-0 (SHEET 1 OF 4)	STANDARD HIGHWAY SIGNS INDEX							
71051	SHS-0 (SHEET 2 OF 4)	STANDARD HIGHWAY SIGNS INDEX							
71052	SHS-0 (SHEET 3 OF 4)	STANDARD HIGHWAY SIGNS INDEX							
71053	SHS-0 (SHEET 4 OF 4)	STANDARD HIGHWAY SIGNS INDEX							
					PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
					FINAL			INDEX TO SPECIAL AND STANDARD DRAWINGS	CR-41

PLANS LEGEND					REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO			
					SCP 59-900-19	2020	1-C			
ROADWAY					UTILITIES					
<div>CENTER LINE55+00</div> <div>STATE BOUNDARY LINE</div> <div>COUNTY BOUNDARY LINE</div> <div>CITY OR TOWN LIMITS</div> <div>SECTION LINESSEC 22 SEC 23</div> <div>QUARTER-SECTION LINES</div> <div>RANGE-TOWNSHIP LINESR-17-E R-18-E</div> <div>PROPERTY LINESR</div> <div>PRESENT ROW</div> <div>ACQUIRED ROWO</div> <div>DENIED ACCESS</div> <div>REQUIRED FENCEx x x</div> <div>CONSTRUCTION LIMITSCONST LIM</div> <div>CLEARING LIMITSx x x x x</div> <div>RAILROAD </div> <div>EXISTING WOOD FENCE/ /</div> <div>EXISTING BARBED WIRE FENCEx x</div> <div>EXISTING CHAIN LINK FENCEo o</div> <div>EXISTING ELECTRIC FENCEo o</div> <div>EXISTING HOG WIRE FENCEx x</div> <div>TREES⊙ ⊙ ⊙</div> <div>WOODS LINE~ ~ ~ ~ ~</div> <div>MARSH~ ~ ~ ~ ~</div> <div>EXISTING DITCH.....> > ></div> <div>REQUIRED DITCH.....> > ></div> <div>GRAVEL ROAD- - - - -</div> <div>EXISTING GUARDRAILo o o o</div> <div>REQUIRED GUARDRAIL- - - - -</div> <div>SATELLITE DISH⊙</div> <div>TRAFFIC LIGHT⊙</div> <div>BENCH MARK⊙</div> <div>SURVEY POINT⊙</div> <div>ENVIRONMENTAL CLEARED LIMITSENV</div>					<div>EXISTING PIPE- - - - -</div> <div>REQUIRED PIPE (WITH PIPE END TREATMENT).....□</div> <div>REQUIRED PIPE END TREATMENT.....□</div> <div>EXISTING BOX CULVERT </div> <div>REQUIRED BOX CULVERT </div> <div>EXTENDED CULVERT </div> <div>DROP INLET OR JUNCTION BOX (SEE PLANS DESCRIPTION).....□</div> <div>BRIDGE </div> <div>PIPE CULVERT (ELEVATION VIEW) FL=410.25</div> <div>BOX CULVERT (ELEVATION VIEW) FL=420.55</div>			<div>POWER POLE</div> <div>LIGHT POLE</div> <div>TELEPHONE POLE</div> <div>ANCHOR</div> <div>STUB (POWER)</div> <div>STUB (TELEPHONE)</div> <div>ELECTRIC DUCT</div> <div>BURIED ELECTRIC CABLE</div> <div>OVERHEAD ELECTRIC CABLE</div> <div>ELECTRIC MANHOLE</div> <div>TOWER</div> <div>TELEPHONE PEDESTAL</div> <div>TELEPHONE DUCT</div> <div>BURIED TELEPHONE CABLE</div> <div>OVERHEAD TELEPHONE CABLE</div> <div>TELEPHONE MANHOLE</div> <div>SANITARY SEWER</div> <div>WATER LINE</div> <div>WATER MAIN</div> <div>WATER VALVE</div> <div>FIRE HYDRANT</div> <div>WATER METER</div> <div>GAS LINE</div> <div>GAS MAIN</div> <div>GAS VALVE</div> <div>GAS REGULATOR</div> <div>BURIED CABLE TELEVISION.....</div> <div>OVERHEAD CABLE TELEVISION.....</div>		
<div>DRAINAGE STRUCTURE INDEX NUMBERS</div> <div>DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.</div> <div><div>8 88</div><div>9 88</div><div>REQD 18" RCP</div><div>ROADWAY PIPE EXAMPLE</div></div> <div><div>SD 4</div><div>REQD 18"</div><div>SIDE DRAIN PIPE EXAMPLE</div></div> <div>DIRECTION OF FLOW></div>					<div>EXISTING</div> <div>PROPOSED</div> <div>EL 4MTD</div> <div>BE</div> <div>OE</div> <div>TP 4MTD</div> <div>BTC</div> <div>OTC</div> <div>TMH</div> <div>SS</div> <div>W</div> <div>WM</div> <div>G</div> <div>GM</div> <div>BTV</div> <div>OTV</div>					
<div>EXISTING PAVEMENT (RETAIN).....</div> <div>EXISTING PAVEMENT (REMOVE).....</div> <div>EXISTING PAVEMENT (RETAIN, PLANE AND OVERLAY).....</div> <div>CONCRETE (EXISTING OR REQUIRED).....</div> <div>EXISTING CONCRETE (REMOVE).....</div> <div>RIP RAP (EXISTING OR REQUIRED).....</div>										
PLAN SUBMITTAL					SHEET TITLE			ROUTE		
FINAL								PLANS LEGEND	CR-41	

				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
				FINAL			PLANS LEGEND	CR-41

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	1-D

			PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
			FINAL			PLANS ABBREVIATIONS SHEET	CR-41

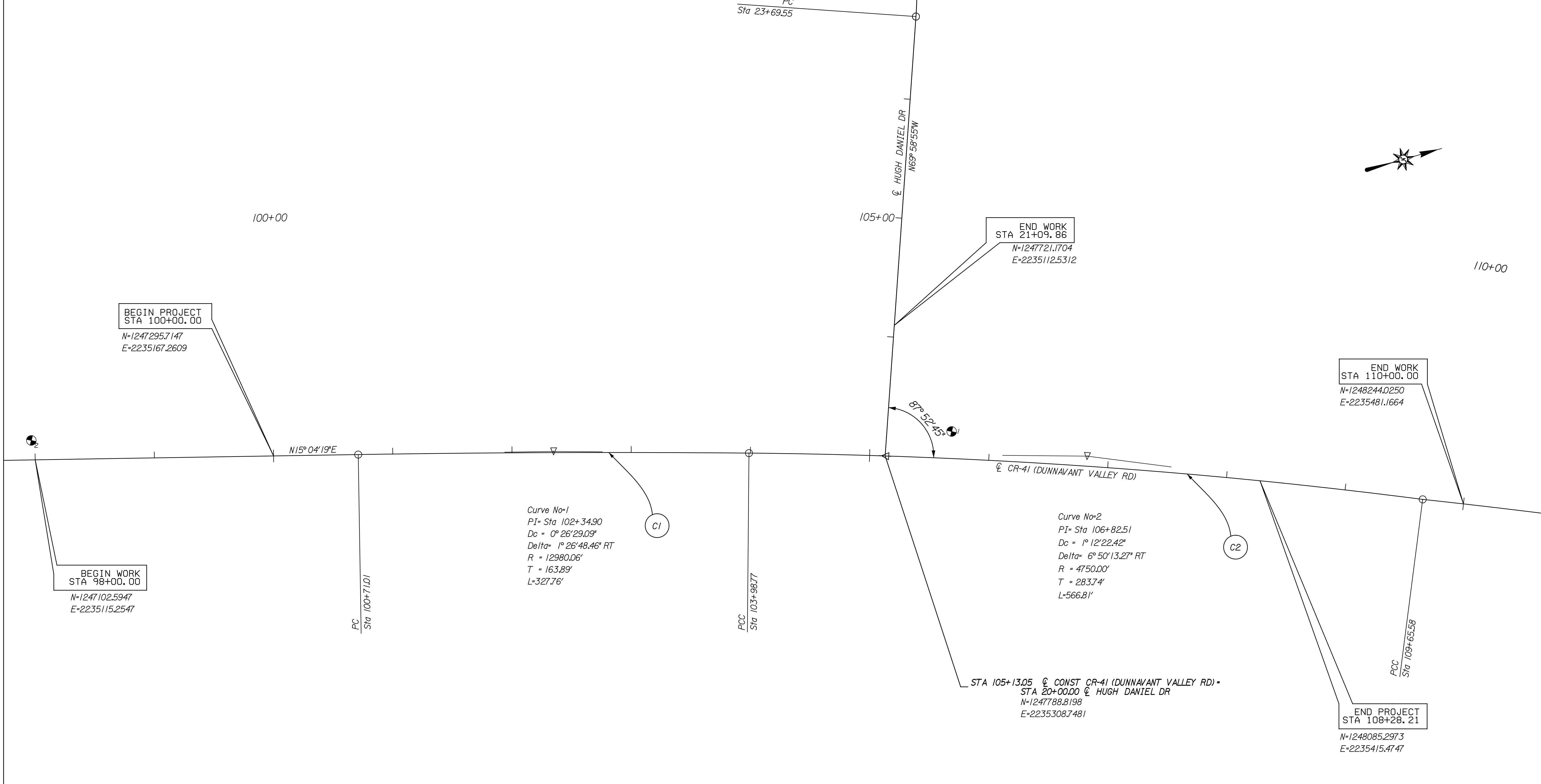
TRAFFIC SIGNAL AND ITS LEGEND

REFERENCE PROJECT NO.	FISCAL YEAR	SHEET NO.
SCP 59-900-19	2020	1-E

ELECTRICAL BOXES			MISCELLANEOUS EQUIPMENT			ABBREVIATIONS		
	EXISTING	REQUIRED		EXISTING	REQUIRED			
METALLIC PULL BOX			TRAFFIC SIGNAL HEAD				AMERICAN WIRE GAUGE	AWG
FIBER OPTIC COMMBOX TYPE F1			TRAFFIC SIGNAL HEAD WITH BACKPLATE				CLOSED CIRCUIT TELEVISION	CCTV
FIBER OPTIC COMMBOX TYPE F2			PEDESTRIAN SIGNAL HEAD				CONDUIT.....	C
TRAFFIC SIGNAL JUNCTION BOX			8 FOOT PEDESTAL POLE AND PEDESTRIAN SIGNAL HEAD				CURB AND GUTTER	C&G
CABLE IN CONDUIT			PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN				DYNAMIC MESSAGE SIGN	DMS
	EXISTING	REQUIRED	PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN				EASTBOUND ROADWAY	EBR
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)			PUSH BUTTON ASSEMBLY				EMERGENCY VEHICLE PREEMPTION	EVP
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)			SPAN/MASTARM MOUNTED SIGN				END ANCHOR	E/A
FIBER OPTIC CABLE IN CONDUIT (BRIDGE ATTACHED)			OMNI DIRECTIONAL ANTENNA				FLASHING BEACON	FB
FIBER OPTIC CABLE (AERIAL INSTALLATION)			DIRECTIONAL ANTENNA				GALVANIZED RIGID CONDUIT.....	GRC
INTERCONNECT CABLE IN CONDUIT (UNDERGROUND)			EMERGENCY VEHICLE PREEMPTION SENSOR				GUARDRAIL	GR
INTERCONNECT CABLE (AERIAL INSTALLATION)			BLANKOUT MESSAGE SIGN				HIGH DENSITY POLYETHYLENE	HDPE
CONDUIT			TRAFFIC CONTROL CENTER				HIGHWAY ADVISORY RADIO	HAR
ENCASEMENT			HIGHWAY ADVISORY RADIO				INDIVIDUAL LOWERING DEVICE	ILD
OVERHEAD ELECTRIC			HUB BUILDING				INTELLIGENT TRANSPORTATION SYSTEM(S)...	ITS
BURIED ELECTRIC			DYNAMIC MESSAGE SIGN (OVERHEAD)				JUNCTION BOX	JB
VEHICULAR DETECTORS			DYNAMIC MESSAGE SIGN (ROADSIDE)				LEFT	LT
	EXISTING	REQUIRED	DYNAMIC MESSAGE SIGN (CANTILEVER)				LIGHT EMITTING DIODE	LED
PRESENCE LOOP DETECTOR			(NOTE: # INDICATES SIGNAL HEAD NUMBER)				LIGHT POLE	LP
QUADRUPOLE LOOP DETECTOR			POLES				LUMINAIRE	LUM
	EXISTING	REQUIRED		EXISTING	REQUIRED		MILEPOST.....	MP
6'x 6' LOOP DETECTOR			METAL POLE				NORTHBOUND ROADWAY	NBR
VEHICLE DETECTION CAMERA			CONCRETE POLE				NON-METALLIC CONDUIT	NMC
VIDEO DETECTION ZONE			METAL MASTARM POLE				PAN TILT ZOOM.....	PTZ
RADAR DETECTION UNIT			CLASS 3 WOOD SERVICE POLE WITH DISCONNECT				PRIMARY FIBER DISTRIBUTION UNIT.....	PFDU
CABINETS			WOOD POLE				PROPERTY LINE	PL
	EXISTING	REQUIRED	DOWN GUY				PUBLIC ACCESS CAMERA.....	PAC
CABINET			LUMINAIRE				PULL BOX.....	PB
CAMERAS							RADIUS	R
	EXISTING	REQUIRED					RAILROAD	RR
CCTV CAMERA, FIXED							RIGHT	RT
CCTV CAMERA, PTZ							RIGHT OF WAY.....	ROW
							ROADWAY	RDWY
							SECONDARY FIBER DISTRIBUTION UNIT	SFDU
							SCHOOL.....	SCH
							SOUTHBOUND ROADWAY	SBR
							STANDARD DRAWING	STD-DWG
							STATION	STA
							TRAFFIC CONTROL CENTER	TCC
							TRAFFIC SIGNAL OPERATING PLAN	TSOP
							TRANSPORTATION MANAGEMENT CENTER ...	TMC
							TURNOUT	TO
							VEHICLE DETECTION CAMERA	VDC
							WESTBOUND ROADWAY	WBR

RESPONSIBLE PE: Cody Long, P.E.	SUPERVISOR: Cody Long, P.E.	DESIGNER: Cody Long, P.E.	PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
DATE: February 10, 2020	DATE: February 10, 2020	DATE: February 10, 2020	FINAL			TRAFFIC SIGNAL AND ITS LEGEND	CR 41

HORIZONTAL ALIGNMENT DATA PLAN VIEW SHEET



HORIZONTAL AND VERTICAL CONTROL POINTS							
POINT NO.	STATION	ROADWAY	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
PT 1	105+67.85	CO-RD 41	22.70 LT	826.59	1247848.092	2235304.3717	CP-GSA CAPPED
PT 2	97+97.04	CO-RD 41	16.36 LT	830.89	1247103.990	2235098.6868	CP-GSA CAPPED

NOTES:
1. POINT COORDINATES ARE BASED ON THE HORIZONTAL DATUM-NAD 83/92 (HPGN) ALABAMA STATE WEST ZONE, VERTICAL DATUM-NAVD 88, AND U.S. SURVEY FOOT UNIT OF MEASURE WITH AN AVERAGE COMBINED SCALE FACTOR OF 0.99997976973590.
2. SEE SHEET 1-G FOR THE HORIZONTAL ALIGNMENT DATA SHEET.

GEOMETRIC LAYOUT SHEET										REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
										SCP 59-900-19	2020	1-G
HORIZONTAL ALIGNMENT DATA SHEET												
<div><div><div>Project Name: CR-41 & Hugh Daniel</div><div>Description:</div><div>Horizontal Alignment Name: CR-41</div><div>Description:</div><div>Style: CI Construction</div></div><div><div>STATION</div><div>NORTHING</div><div>EASTING</div></div></div> <div><div>Element: Linear</div><div><div>POB (1)</div><div>95+44.25</div><div>1246855.642</div><div>2235048.752</div></div><div><div>PC (2)</div><div>100+71.01</div><div>1247364.277</div><div>2235185.724</div></div><div><div>Tangent Direction: N 15°04' 18.848" E</div><div>Tangent Length: 526.755</div></div></div> <div><div>① Element: Circular</div><div><div>PC (2)</div><div>100+71.01</div><div>1247364.277</div><div>2235185.724</div></div><div><div>PI ()</div><div>102+34.90</div><div>1247522.530</div><div>2235228.341</div></div><div><div>CC (3)</div><div>1243989.060</div><div>2247719.270</div></div><div><div>PCC (4)</div><div>103+98.77</div><div>1247679.656</div><div>2235274.940</div></div><div><div>Radius: 12980.056</div><div>Delta: 1°26' 48.463" Right</div></div><div><div>Degree of Curvature(Arc): 0°26' 29.090"</div><div>Length: 327.764</div><div>Tangent: 163.891</div><div>Chord: 327.755</div><div>Middle Ordinate: 1.035</div><div>External: 1.035</div></div><div><div>Tangent Direction: N 15°04' 18.848" E</div><div>Radial Direction: S 74°55' 41.152" E</div><div>Chord Direction: N 15°47' 43.079" E</div><div>Radial Direction: S 73°28' 52.689" E</div><div>Tangent Direction: N 16°31' 07.311" E</div></div></div>												

② Element: Circular

PCC (4)

103+98.77

1247679.656

2235274.940

PI ()

106+82.51

1247951.688

2235355.616

CC (5)

1246329.097

2239828.893

PCC (6)

109+65.58

1248212.180

2235468.102

Radius: 4750.000

Delta: 6°50' 13.274" Right

Degree of Curvature(Arc): 1°12' 22.417"

Length: 566.810

Tangent: 283.742

Chord: 566.474

Middle Ordinate: 8.452

External: 8.467

Tangent Direction: N 16°31' 07.311" E

Radial Direction: S 73°28' 52.689" E

Chord Direction: N 19°56' 13.948" E

Radial Direction: S 66°38' 39.415" E

Tangent Direction: N 23°21' 20.585" E

Non-collinear

③ Element: Circular

PCC (6)

109+65.58

1248212.180

2235468.102

PI ()

111+18.89

1248354.199

2235525.856

CC (7)

1246106.182

2240646.854

PT (8)

112+72.13

1248492.840

2235591.306

Radius: 5590.590

Delta: 3°08' 30.147" Right

Degree of Curvature(Arc): 1°01' 29.499"

Length: 306.550

Tangent: 153.313

Chord: 306.511

Middle Ordinate: 2.101

External: 2.102

Tangent Direction: N 22°07' 46.811" E

Radial Direction: S 67°52' 13.189" E

Chord Direction: N 23°42' 01.885" E

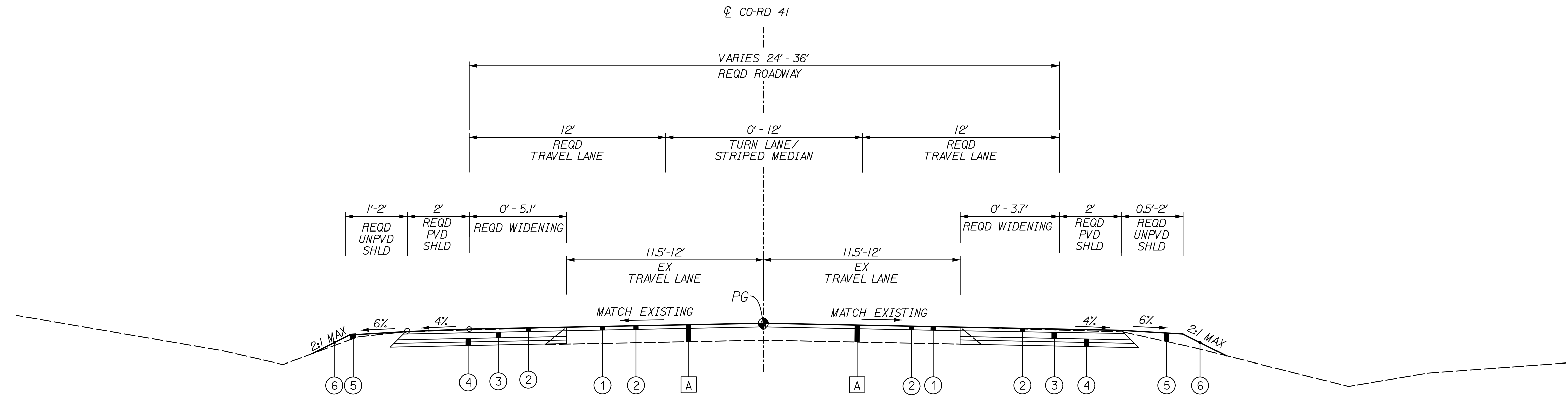
Radial Direction: S 64°43' 43.042" E

Tangent Direction: N 25°16' 16.958" E

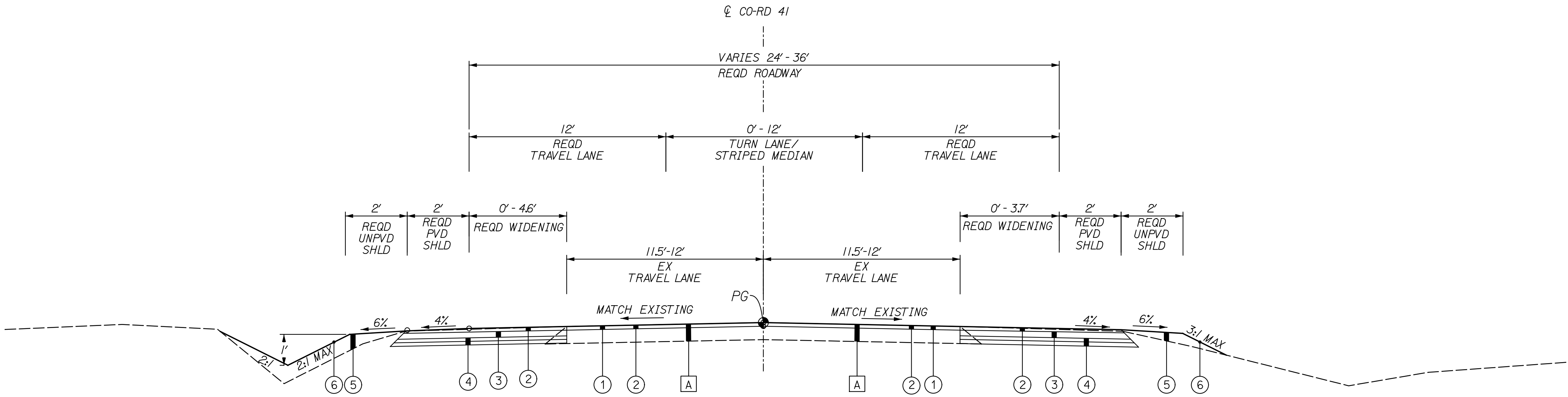
TYPICAL SECTION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	2


PROJECT NOTES:
201,203



TYPICAL SECTION FOR CO-RD 41
STA 100+00.00 TO STA 102+00.00
STA 103+30.00 TO STA 108+28.21

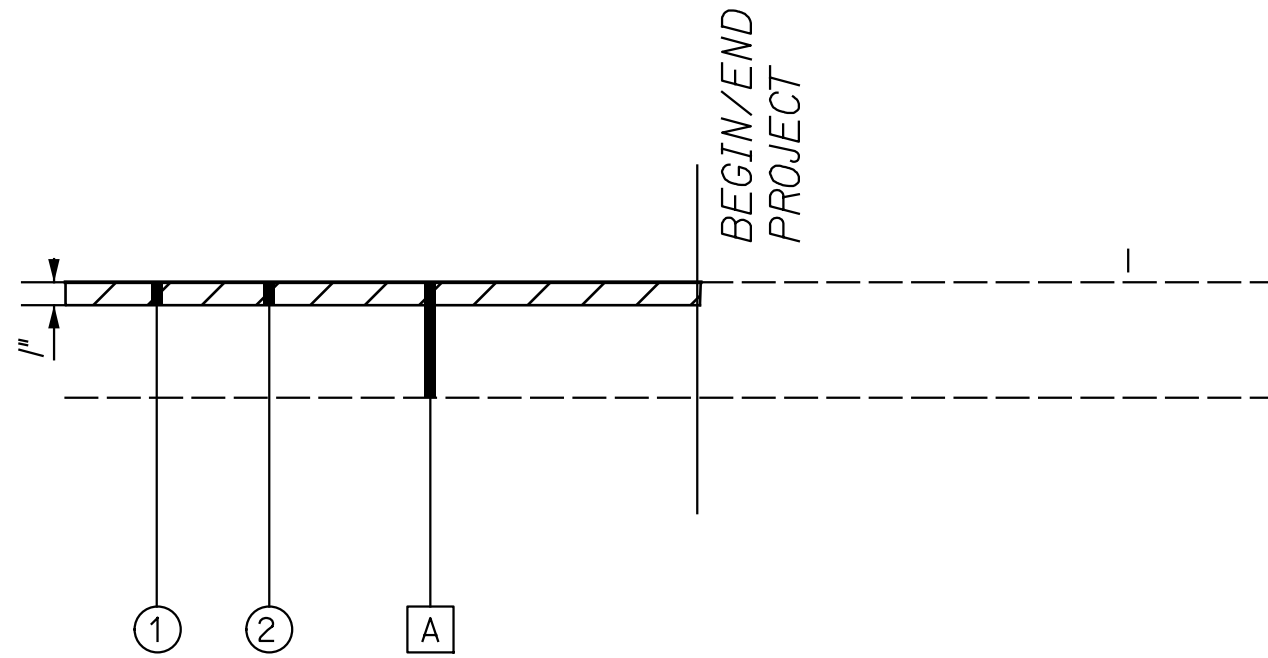


TYPICAL SECTION FOR CO-RD 41
STA 102+00.00 TO STA 103+30.00

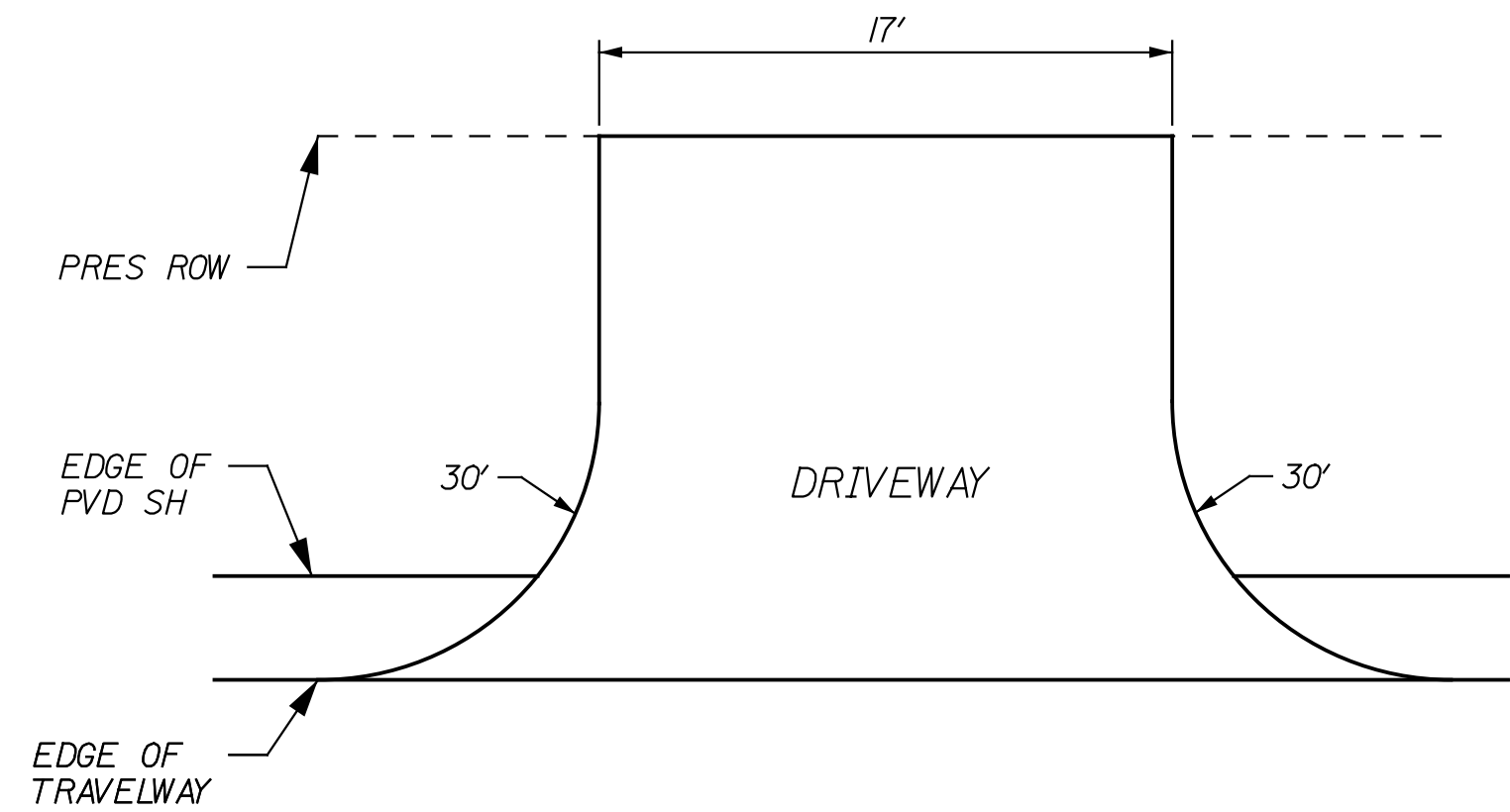
REQUIRED MATERIALS LEGEND											
DESCRIPTION											
LEGEND NO.		ITEM NO.									
①	408A-051	REQD PLANING EXISTING PAVEMENT (APP 0.00" THRU 1.0" THICK) (PLANE 1.0" THICK)									
②	424A-360	REQD SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 110 LB/SQ YD)									
③	424B-650	REQD SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 220 LB/SY)									
④	424C-370	REQD SUPERPAVE BITUMINOUS CONCRETE BASE LAYER, WIDENING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 890 LB/SY)									
⑤	210A-000 AND/OR 210D-000	UNCLASSIFIED EXCAVATION						IN-PLACE MATERIALS LEGEND			
		BORROW EXCAVATION						LEGEND NO.	DESCRIPTION		
⑥	654A-001	REQD SOLID SODDING (BERMUDA)						A	EXISTING BITUMINOUS PAVEMENT (RETAIN, PLANE AND OVERLAY)		
						PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT		NOT TO SCALE	SHEET TITLE	ROUTE
						FINAL				TYPICAL SECTION SHEET	CR-41

TYPICAL SECTION SHEET

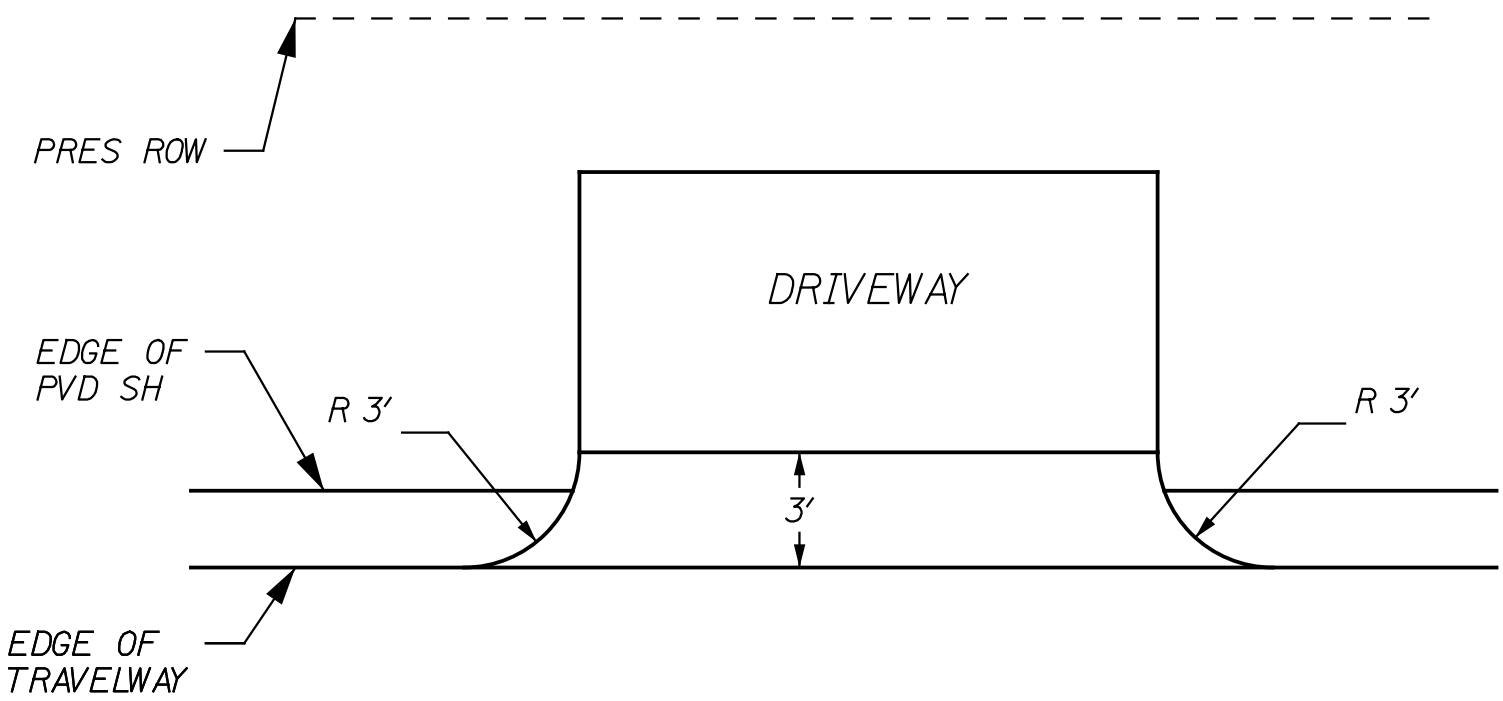
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	2-A




DETAIL FOR PAVEMENT TIE-IN
AT BEGIN/END PROJECT




DRIVEWAY TIE-IN DETAIL
STA 105+11.90 RT



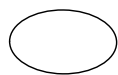
DRIVEWAY TIE-IN DETAIL
STA 102+11.22 RT

REQUIRED MATERIALS LEGEND							
DESCRIPTION							
LEGEND NO. ITEM NO.							
①	408A-051	REQD PLANING EXISTING PAVEMENT (APP 0.00" THRU 1.0" THICK) (PLANE 1.0" THICK)					
②	424A-360	REQD SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 110 LB/SQ YD)					
⑤	210A-000 AND/OR 210D-000	UNCLASSIFIED EXCAVATION	LEGEND NO.	IN-PLACE MATERIALS LEGEND			
		BORROW EXCAVATION	DESCRIPTION				
⑥	654A-001	REQD SOLID SODDING (BERMUDA)	A	EXISTING BITUMINOUS PAVEMENT (RETAIN, PLANE AND OVERLAY)			
			PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
			FINAL			TYPICAL SECTION SHEET	CR-41

PROJECT NOTE SHEET					REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO	
					SCP 59-900-19	2020	2-C	
NOTE NO.	NOTES							
200	THE PAVING LAYOUT SHEETS SHALL BE USED IN CONJUCTION WITH THE TYPICAL SECTIONS FOR PAVEMENT WIDTH TRANSITIONS, RADII LENGTHS, TURN LANES, TAPER LENGTHS,							
201	COMPACTION REQUIREMENTS FOR PLANT MIX IN AREAS 6' WIDE OR LESS IN WIDTH ARE WAIVED. COMPACTION OF PLANT MIX IN THESE AREAS SHALL BE TO THE SATISFACTION OF THE ENGINEER AND PAYMENT FOR THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE MATERIAL BEING PLACED.							
202	JOB MIX FORMULA AND L.A. ABRASION DATA ARE NOT AVAILABLE FOR THIS PROJECT.							
203	ON INTERSECTING ROADS AND TURNOUTS, PAVEMENT SHALL BE THE SAME AS MAINLINE TO BACK OF RADIUS.							
204	OMIT							
300	ITEMS TO BE REMOVED THAT ARE NOT PROVIDED FOR BY PAY ITEM OR SPECIFICALLY MENTIONED BY NOTE TO BE INCLUDED IN OTHER ITEMS OF WORK SHALL BE REMOVED IN ACCORDANCE WITH THE REQUIREMENTS FOR EXTRA WORK IN ARTICLE 104.3 OF THE STANDARD SPECIFICATIONS.							
301	OMIT							
400	OMIT							
401	OMIT							
800	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT WHETHER SHOWN ON THE PLANS OR NOT. THE LOCATION OF ANY REQUIRED SIGNS AND/OR ELECTRICAL/COMMUNICATIONS CONDUIT MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT ANY CONFLICTS WITH THESE UTILITIES. UTILITY LINE LOCATE REQUESTS WILL BE LIMITED TO INCREMENTS NOT TO EXCEED 2000 LINEAR FEET PER WORKING DAY OPERATION. MULTIPLE LOCATE REQUESTS WILL BE REQUIRED FOR PROJECTS GREATER THAN 2000 LINEAR FEET IN LENGTH.							
900	NPDES PERMIT COVERAGE IS NOT REQUIRED FOR THIS PROJECT.							
901	OMIT							
902	OMIT							
903	OMIT							
904	OMIT							
905	OMIT							
906	THERE SHALL BE NO FUEL TANKS STORED ON THE RIGHT OF WAY. IN ADDITIION, FUEL TRUCKS OR VEHICLES TRANSPORTING CHEMICALS, FERTILIZER, ETC., SHALL NOT BE LEFT							
				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
				FINAL			PROJECT NOTE SHEET	CR-41

TRAFFIC SIGNAL PLAN NOTES

IN THE EVENT CONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES
AND THE MUTCD, THE MUTCD WILL GOVERN.



NOTES THAT APPLY TO THIS PROJECT.

- 500 WHEN THE CONTROLLER IS IN THE FLASHING MODE, THE VEHICULAR SIGNAL HEADS SHALL FLASH YELLOW ON COUNTY ROAD 41, RED ON ALL CROSS STREETS, AND RED ON PROTECTED LEFT TURNS.

501. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE STATE INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR PERMANENT) AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS. THE SAME SHALL BE DELIVERED TO SHELBY COUNTY AS DIRECTED BY THE ENGINEER.

- 502 ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF SHELBY COUNTY INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, SIGNS, AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR PERMANENT) AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS.

- 503 THE LOCATION OF THE POWER SOURCE AS SHOWN IN THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE POWER SOURCE AND THE SHORTEST ROUTE TO SERVE THE TRAFFIC SIGNAL CONTROLLER CABINET AND LUMINAIRES.

504. FROM THE DATE TIME CHARGE BEGINS THE CONTRACTOR SHALL ASSUME TOTAL RESPONSIBILITY FOR ALL EXISTING, TEMPORARY, AND NEW TRAFFIC CONTROL UNIT(S) ON THE PROJECT. THE CONTRACTOR SHALL CONTINUE THE OPERATION AND MAINTENANCE OF THE EXISTING TRAFFIC CONTROL UNIT(S) UNTIL THE ENTIRE NEW PERMANENT TRAFFIC CONTROL UNIT(S) IS(ARE) OPERATIONAL AND ACCEPTED BY THE ALABAMA DEPARTMENT OF TRANSPORTATION.

505. THE CONTRACTOR, WITHOUT EXTRA COMPENSATION, SHALL BE RESPONSIBLE TO ENSURE THE CONTINUAL OPERATION AND MAINTENANCE OF THE EXISTING AND TEMPORARY TRAFFIC CONTROL UNIT(S) DURING THE PERIOD OF CONSTRUCTION. MAINTAINING CONTINUAL OPERATION SHALL INCLUDE THE RELOCATION OF VEHICULAR SIGNAL HEADS DURING CONSTRUCTION AND THE MATERIALS AND LABOR NECESSARY TO ENSURE THE CONTINUAL OPERATION OF THE TRAFFIC CONTROL UNIT(S) EQUIPMENT AT ALL TIMES.

- 506 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO LOCATE ALL OVERHEAD AND UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY COMPANY AND THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COST TO REPAIR ANY AND ALL DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR.

507. SHELBY COUNTY RESERVES THE RIGHT TO RESPOND TO TRAFFIC CONTROL UNIT(S) MALFUNCTIONS IN AN EMERGENCY OR NATURAL DISASTER. IN DOING SO THE CONTRACTOR'S LIABILITY AND RESPONSIBILITY RELATED TO MAINTAINING THE TRAFFIC UNIT(S) OR SYSTEM REMAINS IN EFFECT.

508. THE CONTRACTOR SHALL HAVE THE APPROVAL OF THE ENGINEER PRIOR TO THE REMOVAL OF ANY EXISTING TRAFFIC CONTROL UNIT. THE CONTRACTOR SHALL NOT REMOVE AN EXISTING TRAFFIC CONTROL UNIT UNTIL THE REQUIRED TRAFFIC CONTROL UNIT IS INSTALLED AND COMPLETELY OPERATIONAL.

509. EACH REQUIRED TRAFFIC SIGNAL STRAIN POLE AND/OR
MAST ARM POLE MAY VARY IN LENGTH AND SIZE. THE
CONTRACTOR SHALL ASCERTAIN THAT THE POLE HEIGHTS
ARE SUFFICIENT TO PROVIDE THE REQUIRED VEHICULAR
TRAFFIC SIGNAL CLEARANCE. EXTENSIONS FOR MOUNTING
SIGNALS SHALL BE PROVIDED WHEN NECESSARY.

510. EACH MAST ARM MAY VARY IN LENGTH. THE CONTRACTOR SHALL ASCERTAIN THAT ALL ARM LENGTHS ARE SUFFICIENT SO THAT EACH VEHICULAR SIGNAL HEAD POSITION CONFORMS TO THE MUTCD.

511. THE TRAFFIC SIGNAL POLE LOCATION(S) AS SHOWN IN THE PLANS IS(ARE) APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE POLE LOCATION(S) WITH THE ENGINEER. THE CONTRACTOR SHALL ASCERTAIN THAT THE FINAL POLE LOCATION(S) PROVIDE FOR THE VEHICULAR TRAFFIC SIGNAL HEADS TO MEET THE DISTANCE REQUIREMENTS TO THE STOP LINE AS REQUIRED BY THE MUTCD. WHEN PEDESTRIAN SIGNAL HEADS AND/OR PEDESTRIAN CROSSWALKS ARE INVOLVED THE SAME SAID POLE LOCATION(S) SHALL ALSO CONFORM TO THE RELATIVE SECTIONS OF THE MUTCD.

- 512 THE CONTRACTOR SHALL LOCATE EACH REQUIRED AND/OR RELOCATED VEHICULAR TRAFFIC SIGNAL HEAD ON THE SPARE WIRE OR MAST ARM SO THAT EACH HEAD IS LOCATED IN THE APPROACH LANE FOR WHICH IT APPLIES. LOCATION OF SIGNAL HEADS SHALL CONFORM TO THE MUTCD.

- 513 THE TRAFFIC SIGNAL STRAIN POLE LOCATION(S) AS SHOWN
IN THE PLANS IS(ARE) APPROXIMATE. THE ENGINEER
SHALL APPROVE ALL FOUNDATION LOCATIONS PRIOR TO THE
CONTRACTOR EXCAVATING FOR EACH FOUNDATION.

514. BALANCE ADJUSTERS SHALL BE INSTALLED ON TRAFFIC SIGNAL HEADS FOR PROPER AIM. THE CONTRACTOR SHALL ALIGN THE SIGNAL HEADS IN ACCORDANCE WITH THE MUTC AND TO THE SATISFACTION OF THE ENGINEER.

- 515) A 12 INCH DRIP COIL WITH 3 LOOPS SHALL BE PROVIDED TO THE RIGHTS OF EACH VEHICULAR TRAFFIC SIGNAL HEAD. A DRIP LOOP SHALL BE FORMED SO THAT WATER CANNOT ENTER THE ENTRANCE CLAMP. THE WIRE SHALL ENTER THE CLAMP FROM THE BOTTOM OF THE DRIP LOOP.

- 516 WHEN PVC CONDUIT IS USED FROM THE CONTROLLER TO THE STEEL STRAIN POLE OR MAST ARM POLE, THE CONTRACTOR SHALL BOND THE CONTROLLER TO THE POLE WITH A #6-1C BONDING CABLE.

- 517 MARKING TAPE SHALL BE BURIED OVER CONDUIT. THE TAPE SHALL BE 4 INCH POLYETHYLENE, RED IN COLOR WITH BLACK LETTERING.

518. WHEN EXISTING LOOP WIRE AND VEHICLE LOOP DETECTORS ARE TO BE RETAINED AND REUSED, OR RELOCATED IN A NEW CONTROLLER CABINET, THE CONTRACTOR SHALL ASCERTAIN THE MANUFACTURER AND MODEL NUMBER OF EACH EXISTING DETECTOR AMPLIFIER AND PROVIDE A NEW WIRING HARNESS COMPLETELY WIRED IN THE CONTROLLER CABINET FOR EACH EXISTING DETECTOR AMPLIFIER.

519. WHEN SYSTEM TIMINGS ARE NOT INCLUDED IN THE PLANS FOR TIME BASE OR CLOSED LOOP SYSTEMS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO CALCULATE SYSTEM TIMINGS. THE COST OF CALCULATING SYSTEM TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.

520. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO INPUT THE TIMINGS AND FINE TUNE THE TIMINGS. THE COST OF INPUTTING AND FINE TUNING TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.

521. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR INPUTTING AND FINE TUNING THE TIMINGS.

522. WHEN EXISTING SPAN WIRE THAT IS TO BE RETAINED HAS SAGGED, THE CONTRACTOR SHALL ADJUST THE SPAN WIRE SO THAT SIGNAL HEADS COMPLY WITH THE CLEARANCE SHOWN ON THE STANDARD DETAIL DRAWING.

523. OMIT.

524. THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS TO SHELBY COUNTY.

- (525) BACKPLATES WITH A 1 INCH OR 3 INCH FLUORESCENT YELLOW REFLECTIVE BORDER SHALL BE INSTALLED ON ALL SIGNAL HEADS (EXISTING AND REQUIRED).

526. CONTROLLER SHALL BE A SIEMENS M60 OR ECONOLITE COBALT TS-2 CONTROLLER.

527. TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE A NEMA TS2 TYPE 2 CABINET WITH 16 LOAD SWITCH POSITIONS (LOADED).

528. THE INSTALLER IS REQUIRED TO CONSTRUCT AND PROVIDE A COMPLETE TRAFFIC SIGNAL INSTALLATION THAT FUNCTIONS PROPERLY AND MEETS SHELBY COUNTY REQUIREMENTS AND STANDARDS.

- 529 LUMINAIRES USED AS PART OF THIS PROJECT SHALL BE APPROVED FOR USE BY ALDOT AND SHALL BE LED TYPE FIXTURES.

- 530) D3 SIGNS USED AS PART OF THIS PROJECT SHALL BE EDGE
LIT LED TYPE SIGNS.



SUMMARY OF QUANTITIES SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	3

ROADWAY TOTAL	UNIT	ITEM NO.	ITEM DESCRIPTION	PROJECT NOTES
1	LUMP SUM	201A-002	CLEARING AND GRUBBING (MAXIMUM ALOOWABLE BID \$4000 PER ACRE) (APPROXIMATELY 1 ACRE)	
9	LINEAR FOOT	206D-000	REMOVING PIPE	
318	CUBIC YARD	210A-000	UNCLASSIFIED EXCAVATION	
500	CUBIC YARD	210D-000	BORROW EXCAVATION	
77	CUBIC YARD	214A-000	STRUCTURE EXCAVATION	
32	CUBIC YARD	214B-001	FOUNDATION BACKFILL, COMMERCIAL	
270	CUBIC YARD	260A-002	CEMENT MORTAR FLOWABLE BACKFILL, MIX 3	
305	GALLON	405A-000	TACK COAT	
1	MILE	407B-000	JOINT SEALANT FOR HOT MIX ASPHALT PAVEMENT	
3070	SQUARE YARD	408A-051	PLANING EXISTING PAVEMENT (APPROXIMATLEY 0.00" THRU 1.0" THICK)	
206	TON	424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	
82	TON	424B-650	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	
371	TON	424C-370	SUPERPAVE BITUMINOUS CONCRETE BASE LAYER, WIDENING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	
25	LINEAR FOOT	530A-002	24" ROADWAY PIPE (CLASS 3 R.C.)	
81	LINEAR FOOT	530B-002	29" SPAN, 18" RISE ROADWAY PIPE (CLASS 3 R.C.)	303
1	LUMP SUM	600A-000	MOBILIZATION	
18	TON	610C-001	LOOSE RIPRAP, CLASS 2	
33	SQYD	610D-003	FILTER BLANKET, GEOTEXTILE	
2	EACH	619A-003	24" ROADWAY PIPE END TREATMENT, CLASS 1	
2	EACH	619B-017	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1	
1	EACH	621A-011	JUNCTION BOXES, TYPE 1 OR 1P	
300	CUBIC YARD	650A-000	TOPSOIL	
1	ACRE	652A-100	SEEDING	
1200	SQUARE YARD	654A-001	SOLID SODDING (BERMUDA)	
1	ACRE	656A-010	MULCHING	
2	ACRE	665A-000	TEMPORARY SEEDING	
6	TON	665B-001	TEMPORARY MULCHING	
1000	LINEAR FOOT	665J-002	SILT FENCE	
1000	LINEAR FOOT	665O-001	SILT FENCE REMOVAL	
150	LINEAR FOOT	665Q-002	WATTLE	
1	LUMP SUM	680A-001	GEOMETRIC CONTROLS	
1940	LINEAR FOOT	701G-253	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	
2504	LINEAR FOOT	701G-265	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	
80	LINEAR FOOT	701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	
2	MILE	701C-001	SOLID TEMPORARY TRAFFIC STRIPE	
427	SQUARE FOOT	703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	
45	SQUARE FOOT	703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	
64	SQFT	703D-001	TEMPORARY TRAFFIC CONTROL MARKINGS	
37	EACH	705A-031	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	
70	EACH	705A-032	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	
6	EACH	705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	
120	EACH	705A-038	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	
18	SQUARE FOOT	710A-115	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE III OR TYPE IV BACKGROUND)	
28	LINEAR FOOT	710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2" 14 GA SQUARE TUBULAR STEEL)	
1	LUMP SUM	710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	
1	LUMP SUM	711A-000	ROADWAY SIGN RELOCATION	
1	LUMP SUM	730C-000	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT (
2	EACH	730E-000	METAL TRAFFIC SIGNAL POLE FOUNDATION	
1	EACH	730F-000	METAL TRAFFIC SIGNAL POLE WITH DUAL MAST ARMS (40 FT & 44 FT)	
1	EACH	730F-001	METAL TRAFFIC SIGNAL POLE WITH DUAL MAST ARMS (40 FT & 60 FT)	
3	EACH	730K-000	TRAFFIC SIGNAL JUNCTION BOX	
50	LINEAR FOOT	730L-002	1", METALLIC, CONDUIT	
50	LINEAR FOOT	730L-003	1", NON-METALLIC, CONDUIT	
260	LINEAR FOOT	730L-005	2", NON-METALLIC, CONDUIT	
4	EACH	730N-000	LUMINAIRE EXTENSION ASSEMBLY, 12 FEET	
7	EACH	730P-022	VEHICULAR SIGNAL HEAD, 12 INCH, 3 SECTION, TYPE LED	
1	EACH	730P-023	VEHICULAR SIGNAL HEAD, 12 INCH, 4 SECTION, TYPE LED	
1	EACH	730R-022	CONTROLLER ASSEMBLY, TYPE III, 8 PHASE	
1	LUMP SUM	730U-015	VIDEO DETECTION SYSTEM	
250	SQUARE FOOT	740B-000	CONSTRUCTION SIGNS	
75	EACH	740D-000	CHANNELIZING DRUMS	
50	EACH	740E-000	CONES (36 INCHES HIGH)	
50	EACH	740M-001	BALLAST FOR CONES	
2	EACH	742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	
120	LINEAR FOOT	756A-028	6" ELECTRICAL CONDUIT, 1 LINE, TYPE 5 INSTALLATION	

SUMMARY OF QUANTITIES SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	3-A

REQUIRED STRIPING															
ROADWAY	BEGIN STATION	END STATION	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE) (SSWTS)	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE) (SSYTS & DSYTS)	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE) (DWTS & DYTS)	SOLID TEMPORARY TRAFFIC STRIPE	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	SPECIAL AND STANDARD DRAWINGS	
			701G-		701B-	701C-	703A-	703B-	703D-	705A-					
			253	265	207	001	002	002	001	031	032	037	038		
			LIN FT	LIN FT	LIN FT	MILES	SQ FT	SQ FT	SQ FT	EACH	EACH	EACH	EACH		
CR-41			1775	2439	80	2	363	45		37	70	6	120	A,B,C,D	
HUGH DANIEL DR			165	65		0.09	64		64					A,B,C,D	
TOTAL			1940	2504	80	2	427	45	64	37	70	6	120		

REQUIRED GM SIGN REMOVAL					
ROADWAY	STATION	SIDE	R1-1	REMOVAL OF EXISTING ROADWAY SIGNS	ROADWAY SIGN RELOCATION
				710C-000	711A-000
				LUMP SUM	LUMP SUM
HUGH DANIEL DR	20+28.40	LT	1	1	
HUGH DANIEL DR	20+35.82	RT			1
TOTAL				1	1

REQUIRED DRAINAGE SUMMARY														
ROADWAY	BEGIN STATION	END STATION	FROM INDEX NO.	TO INDEX NO.	PLAN SHEET	ROADWAY PIPE (CLASS 3 R.C.)		ROADWAY PIPE END TREATMENT, CLASS 1	ROADWAY PIPE END TREATMENT, CLASS 1	STRUCTURE EXCAVATION	FOUNDATION BACKFILL, COMMERCIAL	JUNCTION BOXES , TYPE 1 OR 1P	PIPE END TREATMENT SLOPE (X:1)	SPECIAL AND STANDARD DRAWINGS
						530A-	530B-	619A-	619B-			621A-		
						002	002	003	017			011		
						24"	29" SPAN, 18" RISE	24"	29" SPAN, 18" RISE					
LIN FT	LIN FT	EACH	EACH	CU YD	CU YD	EACH								
CR-41	104+06.87	104+06.87	1	2	4	8.9		1		7.7	2.5	1	2	U, X
CR-41	104+06.94	104+06.94	3	4	4	16		1		7.2	3.7			
HUGH DANIEL DR	20+30.10	20+36.56	5	6	4		80.3		2	61.5	26		4	Y
TOTAL						25	81	2	2	77	32	1		

REQUIRED GROUND MOUNTED SIGNS									
SIGN ID NUMBER	SIGNING PLAN SHEET NO.	STATION	ROADWAY	SIDE	ROADWAY SIGN POST (#3 U-CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	NO. OF POSTS	W3-3	CLASS 4 ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STL. FLAT SIGN PANELS 14 GA. (TYPE III OR TYPE IV BACKGROUND)	STANDARD AND SPECIAL DRAWINGS
					710B-021			710A-115	
					LIN FT			SQ FT	
1	20		CR-41	RT	14	1	1	9	V,W
2	20		CR-41	LT	14	1	1	9	V,W
TOTAL					28			18	

REQUIRED EROSION AND SEDIMENT CONTROL															
ROADWAY	BEGIN STATION	END STATION	LOOSE RIPRAP, CLASS 2	FILTER BLANKET, GEOTEXTILE	TOPSOIL	SEEDING	SOLID SODDING (BERMUDA)	MULCHING	TEMPORARY SEEDING	TEMPORARY MULCHING	SILT FENCE	SILT FENCE REMOVAL	WATTLE	SPECIAL AND STANDARD DRAWINGS	
			610C-001 (TON)	610D-003 (SQ YD)	650A-000 (CU YD)	652A-100 (ACRE)	654A-001 (SQ YD)	656A-010 (ACRE)	665A-000 (ACRE)	665B-001 (TON)	665J-002 (LIN FT)	6650-001 (LIN FT)	665Q-002 (LIN FT)		
CR-41	100+00.00	108+28.21	18	33	300	1	1200	1	2	6	1000	1000	150	E,F,G	
TOTAL			18	33	300	1	1200	1	2	6	1000	1000	150		

REQUIRED PIPE REMOVAL							
ROADWAY	BEGIN STATION	END STATION	SIDE	PLAN SHEET	DESCRIPTION	REMOVING PIPE 206D-000 (LIN FT)	REMARKS
CR-41	104+06.88	104+06.88	LT	4	24" CMP	8.8	
TOTAL						9	

LEGEND

A:	PS-701-6	L:	ESC-504	W:	IHS-710-21
B:	PS-701-7	M:	ESC-505	X:	HW-614-B (PC)
C:	TCM-703	N:	ESC-506 (2 SHEETS)	Y:	HW-614-B
D:	PM-705-1	O:	ESC-507		
E:	ESC-100 (2 SHEETS)	P:	ESC-508		
F:	ESC-200 (4 SHEETS)	Q:	ESC-509		
G:	ESC-300 (8 SHEETS)	R:	OMIT		
H:	ESC-400 (5 SHEETS)	S:	OMIT		
I:	ESC-501	T:	OMIT		
J:	ESC-502	U:	JB-621-P		
K:	ESC-503	V:	SHS-13		

												REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
												SCP 59-900-19	2020	3B

REQUIRED TRAFFIC SIGNAL PAY ITEMS (LUMP SUM)					
SHEET NUMBER	DESCRIPTION (LOCATION)	REMOVAL OF EXISTING ROADWAY SIGNS	FURNISHING AND INSTALLING TRAFFIC CONTROL UNIT	VIDEO DETECTION SYSTEM	DRAWING NUMBERS
		710C-000	730C-000	730U-015	
		LUMP SUM	LUMP SUM	LUMP SUM	
30	TRAFFIC SIGNAL PLAN SHEET (COUNTY ROAD 41 AT HUGH DANIEL DRIVE)	1	1	1	A,B,C,D,E,F,G,H,I,J,K,L

LEGEND	
A. STANDARD DRAWING NO. T.S.D.-730-1 B. STANDARD DRAWING NO. T.S.D.-730-2A C. STANDARD DRAWING NO. T.S.D.-730-2B D. STANDARD DRAWING NO. T.S.D.-730-4 E. STANDARD DRAWING NO. T.S.D.-730-10 F. STANDARD DRAWING NO. T.S.D.-730-12 G. STANDARD DRAWING NO. T.S.D.-730-13 H. STANDARD DRAWING NO. T.S.D.-730-14 I. STANDARD DRAWING NO. T.S.D.-730-18 J. STANDARD DRAWING NO. TSOP NO.30 K. STANDARD DRAWING NO. SHS-13 L. STANDARD DRAWING NO. SHS-22	

REQUIRED TRAFFIC SIGNAL PAY ITEMS														
SHEET NUMBER	DESCRIPTION (LOCATION)	METAL TRAFFIC SIGNAL POLE FOUNDATION	METAL TRAFFIC SIGNAL POLE WITH DUAL MAST ARMS (40FT&44FT)	METAL TRAFFIC SIGNAL POLE WITH DUAL MAST ARMS (40FT&60FT)	TRAFFIC SIGNAL JUNCTION BOX	1" METALLIC CONDUIT	1", NON- METALLIC CONDUIT	2", NON- METALLIC CONDUIT	LUMINAIRE EXTENSION ASSEMBLY, 12 FOOT	VEHICULAR SIGNAL HEAD, 12 INCH, 3 SECTION, TYPE LED	VEHICULAR SIGNAL HEAD, 12 INCH, 4 SECTION, TYPE LED	CONTROLLER ASSEMBLY, TYPE III, 8 PHASE	6" ELECTRICAL CONDUIT, 1 LINE, TYPE 5 INSTALLATION	DRAWING NUMBERS
		730E-000	730F-000	730F-001	730K-000	730L-002	730L-003	730L-005	730N-000	730P-022	730P-023	730R-022	756A-028	
		EACH	EACH	EACH	EACH	LINEAR FOOT	LINEAR FOOT	LINEAR FOOT	EACH	EACH	EACH	EACH	LINEAR FOOT	
33	TRAFFIC SIGNAL PLAN SHEET (COUNTY ROAD 41 AT HUGH DANIEL DRIVE)	2	1	1	3	50	50	260	4	7	1	1	120	A,B,C,D,E,F,G,H,I,J,K,L
TOTALS		2	1	1	3	50	50	260	4	7	1	1	120	

February 10, 2020

AB4

REASSURED

No. 29156

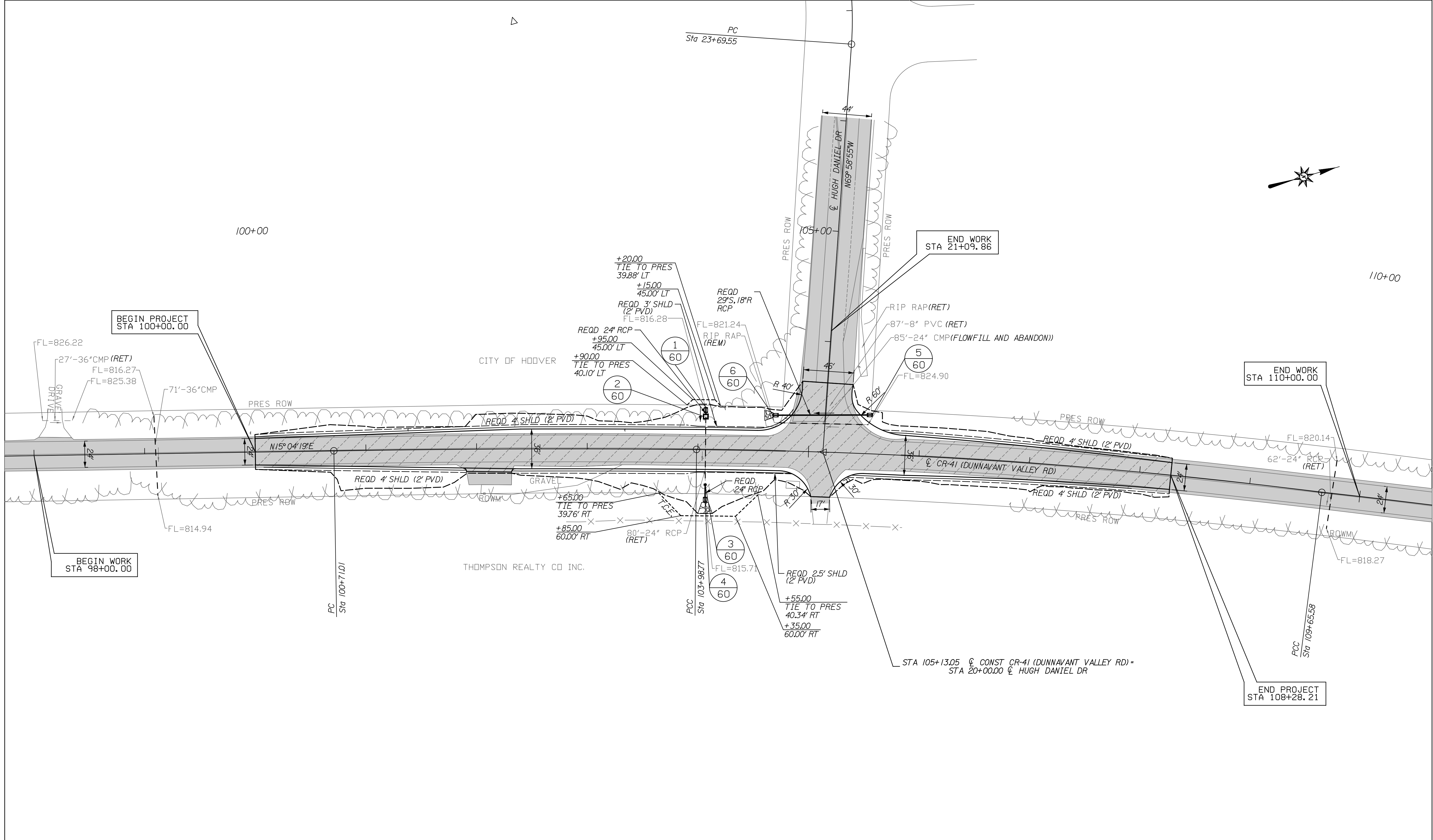
PROFESSIONAL


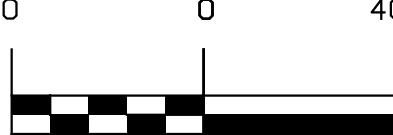
CODY LONG

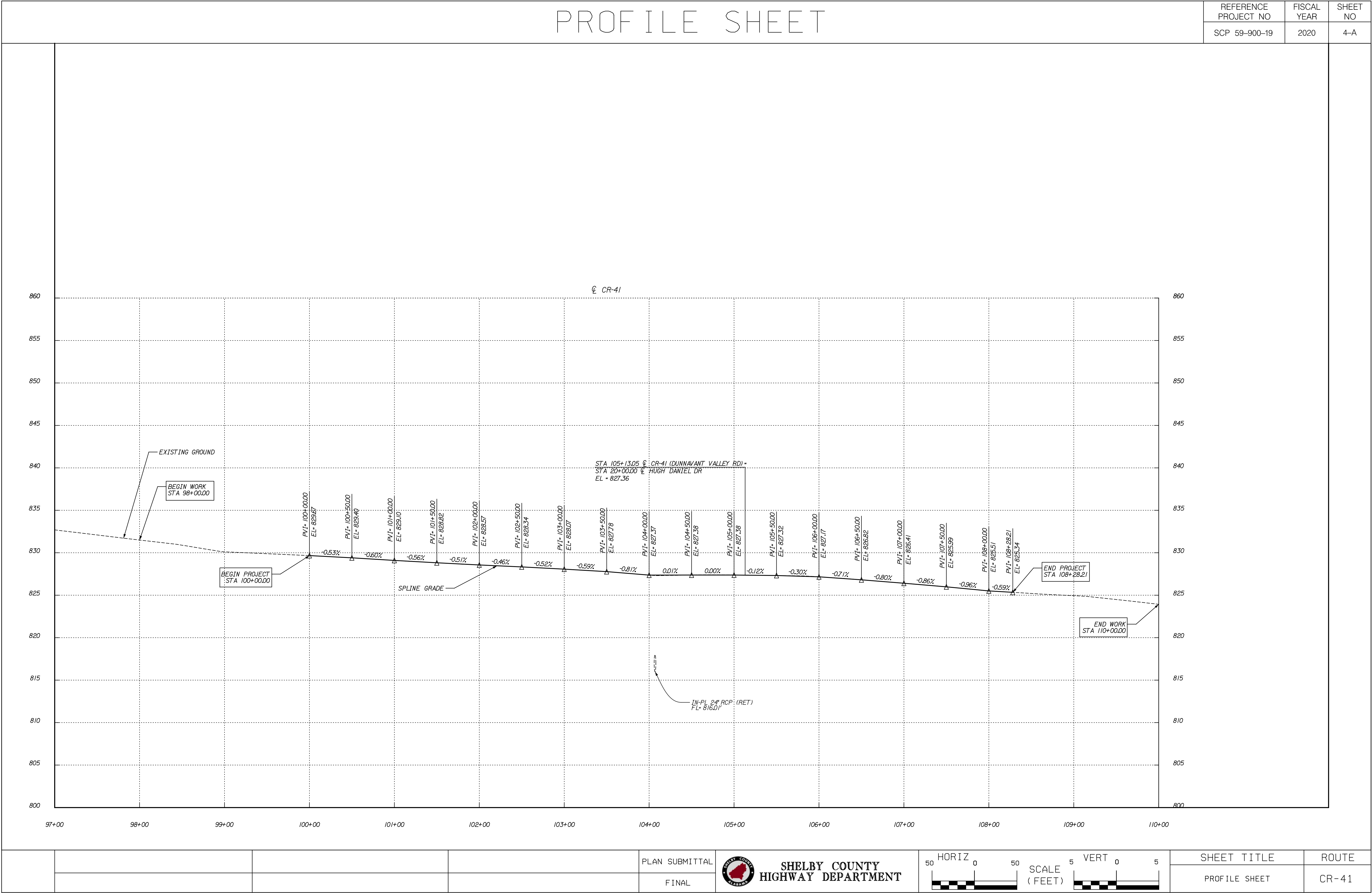
	RESPONSIBLE PE: Cody Long, P.E.	SUPERVISOR: Cody Long, P.E.	DESIGNER: Cody Long, P.E.	PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
	DATE: February 10, 2020	DATE: February 10, 2020	DATE: February 10, 2020	FINAL			SUMMARY OF QUANTITIES	CR 41

PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	4



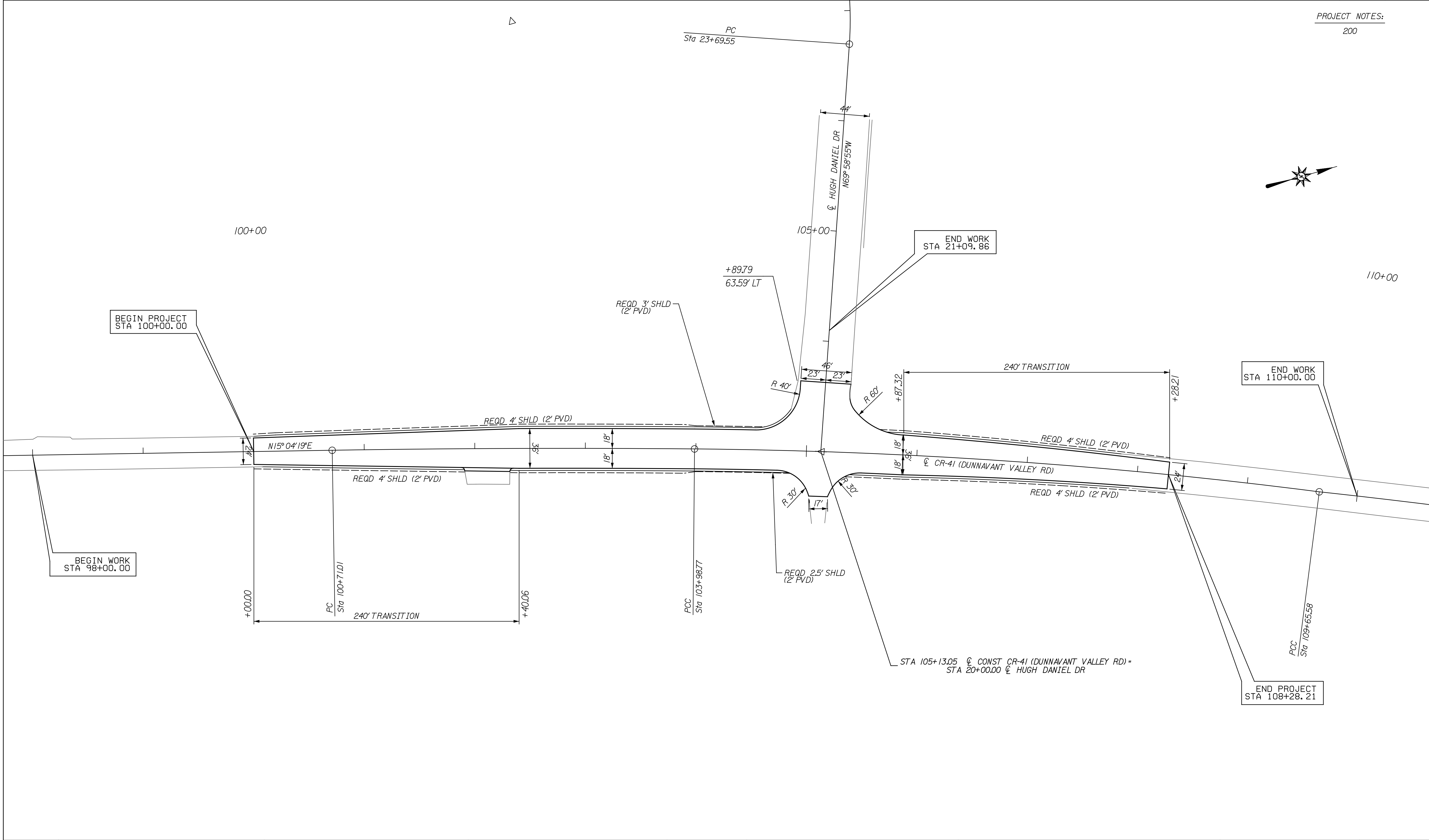
				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	HORIZ  SCALE (FEET)	SHEET TITLE	ROUTE
				FINAL			PLAN SHEET	CR-41


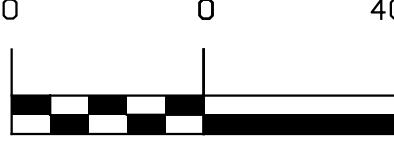


PAVING LAYOUT SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	10

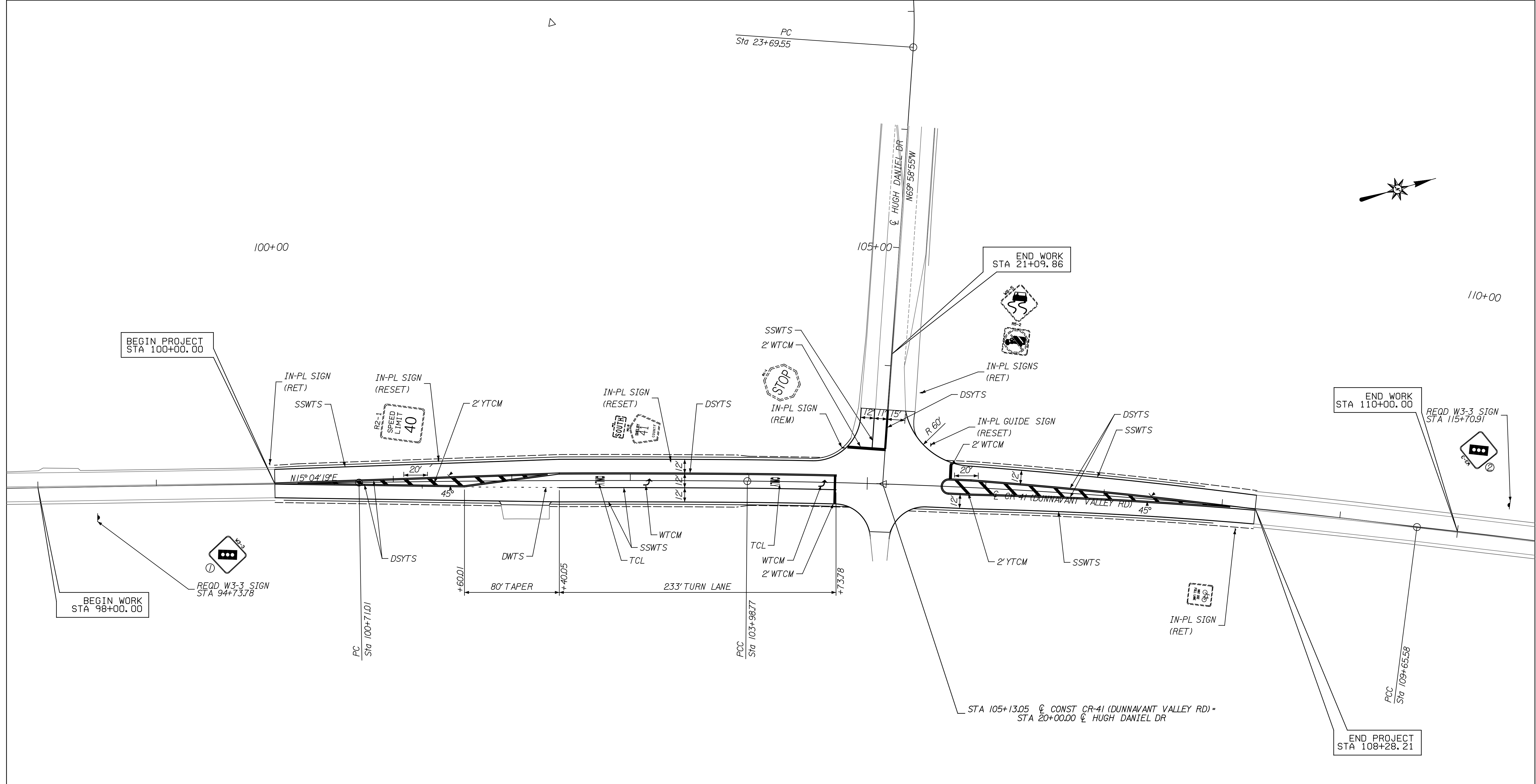
PROJECT NOTES:
200



				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	HORIZ  SCALE (FEET)	SHEET TITLE	ROUTE
				FINAL			PAVING LAYOUT SHEET	CR-41

SIGNING AND STRIPING SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	20



STRIPING PLANS ABBREVIATIONS

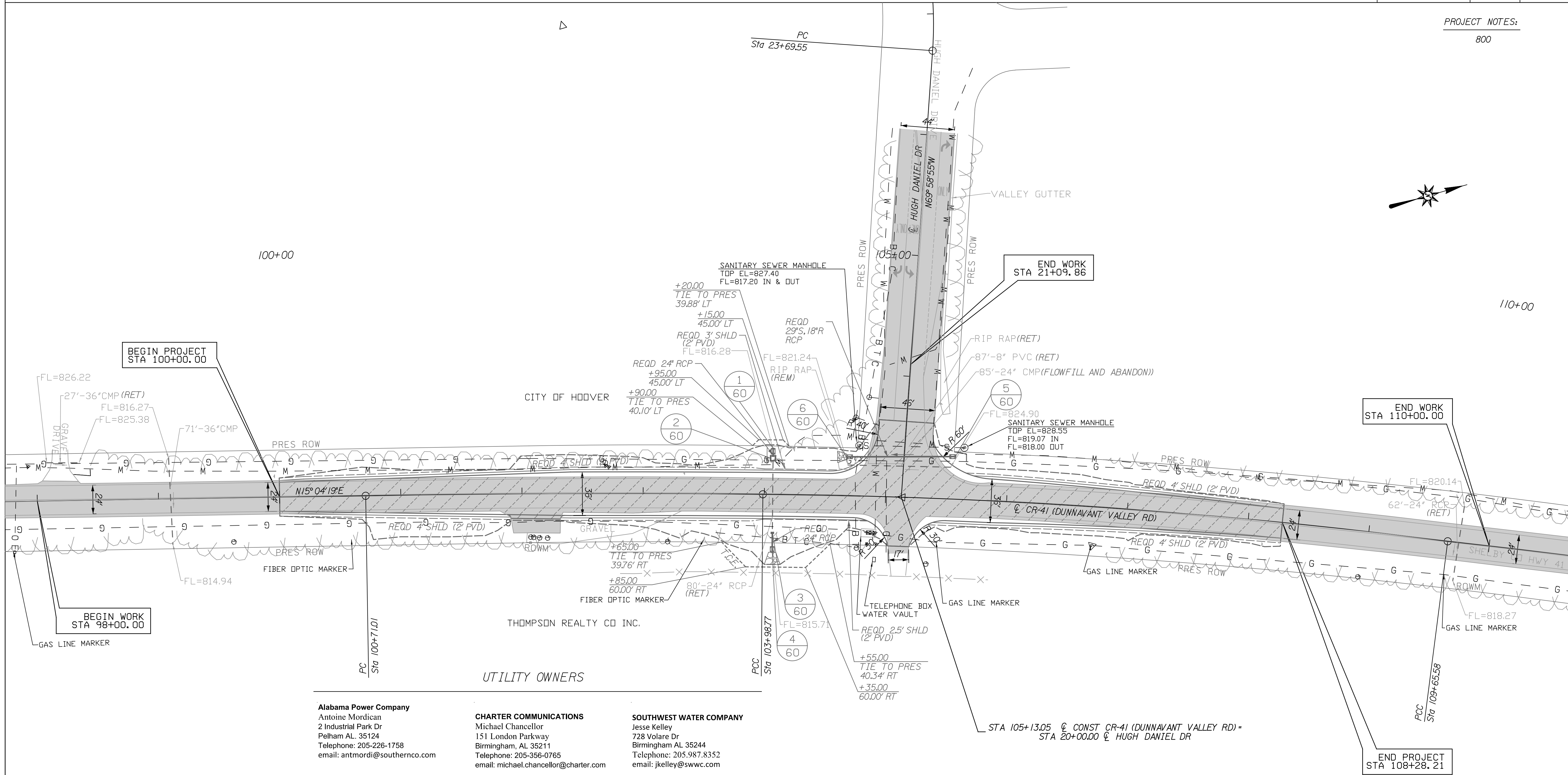
DOTTED WHITE TRAFFIC STRIPE.....	DWTS
DOUBLE SOLID YELLOW TRAFFIC STRIPE.....	DSYTS
SINGLE SOLID WHITE TRAFFIC STRIPE.....	SSWTS
TRAFFIC CONTROL LEGEND.....	TCL
WHITE TRAFFIC CONTROL MARKING.....	WTCM

UTILITY PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	30

PROJECT NOTES:

800



Alabama Power Company
Antoine Mordican
2 Industrial Park Dr
Pelham AL 35124
Telephone: 205-226-1758
email: antmordi@southernco.com

ALABAMA GAS
Mike Gorenflo
2951 Chestnut Street
Montgomery, AL 36107
Telephone: (334) 241-4302
email- Mike.Gorenflo@spireenergy.com

SHELBY COUNTY WATER
SHANE LOVETT
PO BOX 37
Columbiana, Alabama 35051
Telephone: (205) 670-6540
email - slovett@shelbyal.com

CHARTER COMMUNICATIONS
Michael Chancellor
151 London Parkway
Birmingham, AL 35211
Telephone: 205-356-0765
email: michael.chancellor@charter.com

AT&T
Jason Kyle
3196 Highway 280 E
Birmingham, AL 35243
Telephone: (205) 968-5592
email: jk7220@att.com

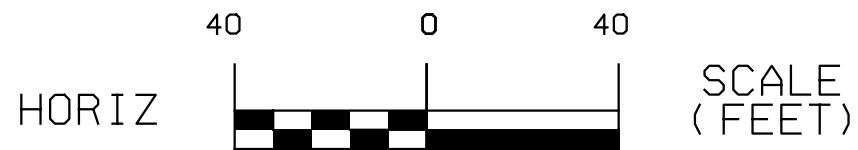
BIRMINGHAM WATER WORKS
Richard Pennington
716 Richard Arrington Jr. Blvd N
Birmingham, AL 35203
email: penningtonr@jccal.org
Telephone 205-521-7527

SOUTHWEST WATER COMPANY
Jesse Kelley
728 Volare Dr
Birmingham AL 35244
Telephone: 205.987.8352
email: jkelley@swwc.com

PLAN SUBMITTAL
FINAL



**SHELBY COUNTY
HIGHWAY DEPARTMENT**

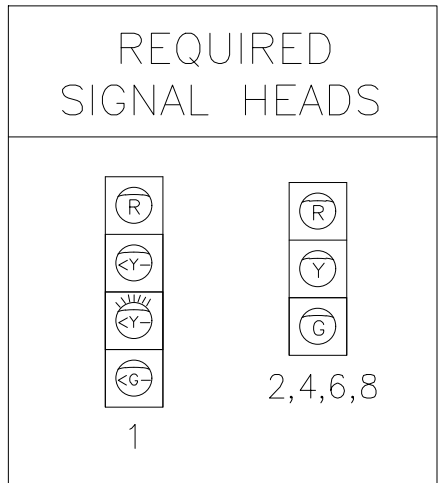


SHEET TITLE	ROUTE
UTILITY PLAN SHEET	CR-41

TRAFFIC SIGNAL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	31

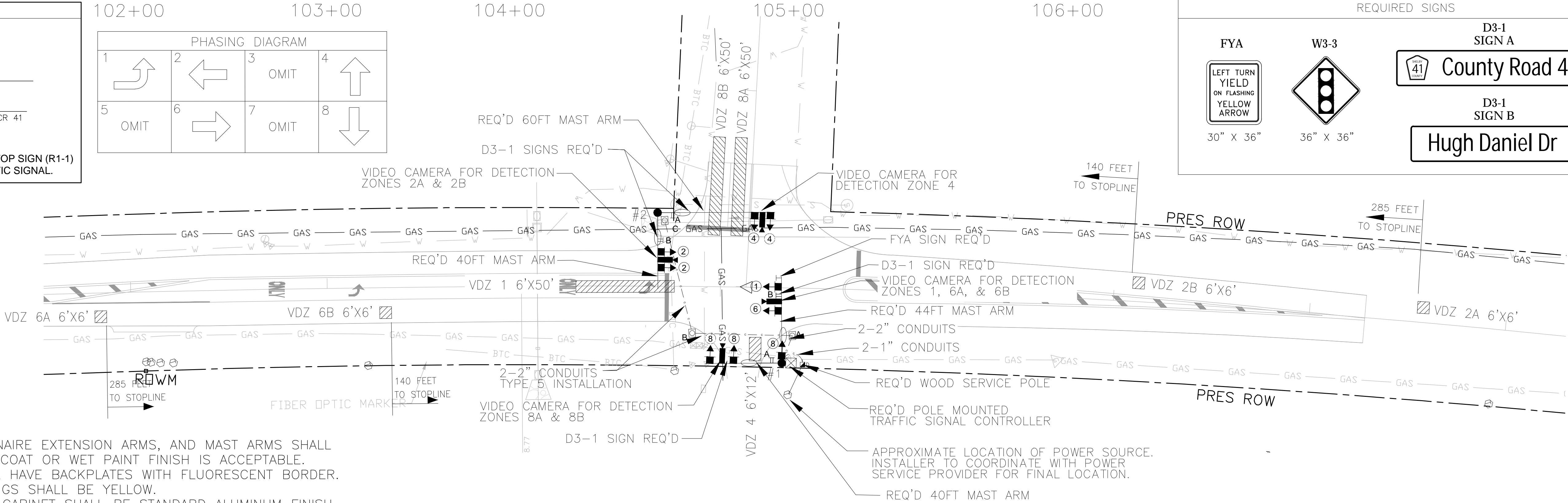
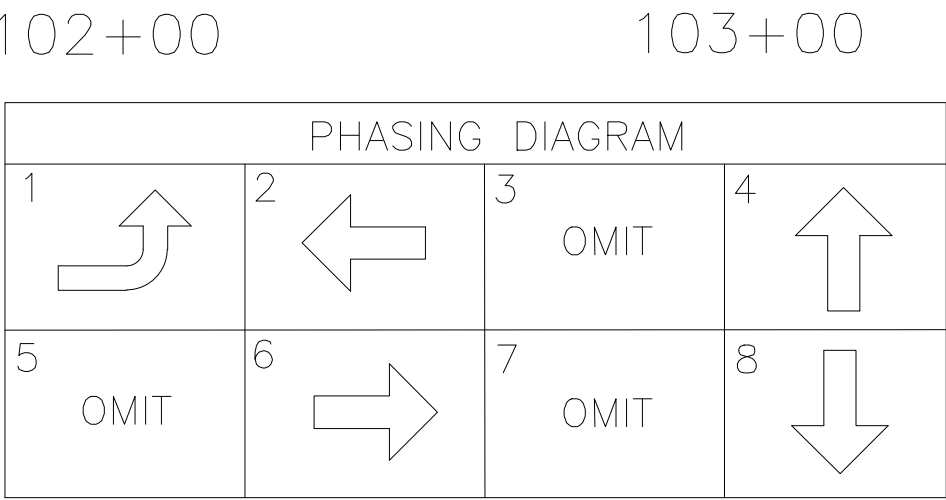
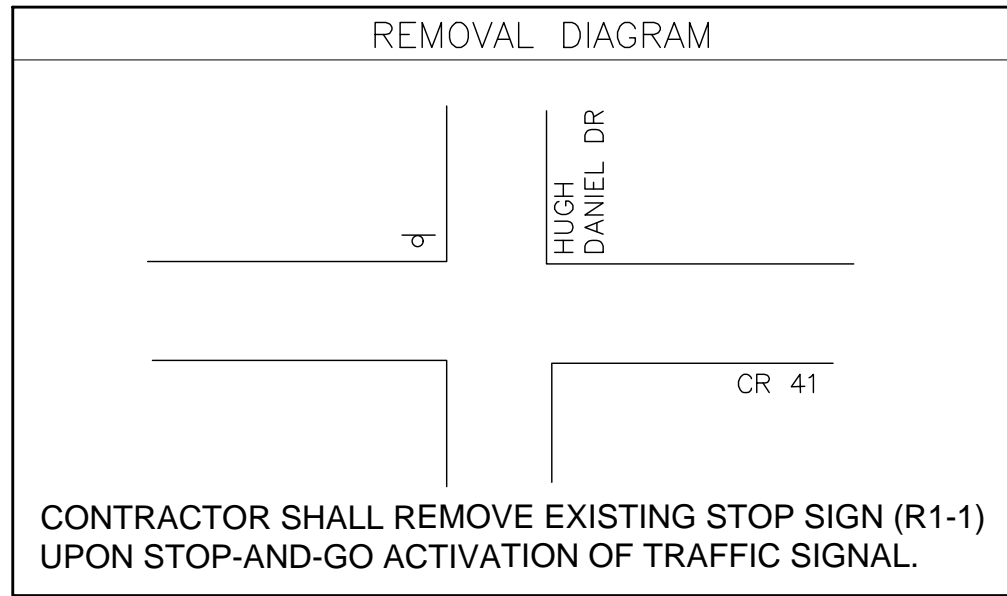
CONDUIT AND CONDUCTOR SCHEDULE			
CONDUIT	CONDUCTOR	FROM	TO
2-1" PVC	--	DISCONNECT	POLE #1/CONTROLLER
2-2" PVC	--	POLE #1	JUNCTION BOX A
2-2" PVC	--	JUNCTION BOX A	JUNCTION BOX B
HDPE SLEEVE	--		
2-2" PVC	--	JUNCTION BOX B	JUNCTION BOX C
HDPE SLEEVE	--		
--	3C#6 AWG	DISCONNECT SWITCH	CONTROLLER
--	1C#6 AWG	DISCONNECT SWITCH	GROUND
--	3C#8 AWG	DISCONNECT SWITCH	LIGHTNING ARRESTOR (EACH POLE)
--	3C#10 AWG	LIGHTNING ARRESTOR (EACH POLE)	LUMINAIRE (EACH)
--	7C#14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEAD 1
--	4C#14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS 2
--	4C#14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS 4
--	4C#14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEAD 6
--	4C#14 AWG IMSA 20-1	CONTROLLER	SIGNAL HEADS 8
--	RG-59/U COAX	CONTROLLER	VIDEO DETECTION CAMERAS
-	3C#16 AWG	CONTROLLER	VIDEO DETECTION CAMERAS
	3C#14 AWG	CONTROLLER	D3-1 SIGNS



LOCAL CONTROLLER PROGRAMMING CHART											
PHASE	MIN INITIAL	DENSITY ACTIVE	PASSAGE	YELLOW	ALL RED	MAX 1	MAX 2	PED OMIT	MIN RECALL	PHASE OMIT	NON- LOCK
1	7.0	N	3.0	4.3	1.5	25.0	25.0	Y	N	N	Y
2	17.0	N	2.2	4.7	1.8	40.0	40.0	Y	Y	N	N
3								Y		Y	
4	7.0	N	3.0	4.5	2.4	25.0	25.0	Y	N	N	Y
5								Y		Y	
6	17.0	N	2.2	4.7	1.8	40.0	40.0	Y	Y	N	N
7								Y		Y	
8	7.0	N	3.0	4.5	2.4	25.0	25.0	Y	N	N	Y

NOTES: SWITCH PHASE 1 TO PHASE 2 DURING PHASE 6.
DELAY OVERRIDE SHALL BE CONNECTED FOR PHASE 8 GREEN.

LOCAL SIGNAL TIMINGS SHALL
BE INSTALLED BY THE SIGNAL
CONTRACTOR.



TRAFFIC SIGNAL NOTES:

1. TRAFFIC SIGNAL POLES, LUMINAIRE EXTENSION ARMS, AND MAST ARMS SHALL BE PAINTED BLACK. POWDERCOAT OR WET PAINT FINISH IS ACCEPTABLE.
2. TRAFFIC SIGNAL HEADS SHALL HAVE BACKPLATES WITH FLUORESCENT BORDER.
3. TRAFFIC SIGNAL HEAD HOUSINGS SHALL BE YELLOW.
4. TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE STANDARD ALUMINUM FINISH (NO PAINT).
5. D3-1 SIGNS SHALL BE EDGE LIT AND MOUNTED ABOVE THE CENTER OF THE THROUGH LANES BETWEEN TRAFFIC SIGNAL HEADS. SEE DETAILS SHEET 5.
6. MAST ARMS SHALL BE UPSWEEP TYPE.
7. LUMINAIRE FIXTURES SHALL BE COBRAHEAD TYPE WITH LED FIXTURE.
8. TRAFFIC SIGNAL CONTROLLER SHALL BE A NEMA 8 PHASE CONTROLLER. THE MANUFACTURER AND SERIES SHALL BE SIEMENS M60 SERIES OR ECONOLITE COBALT ATC.

ESTIMATED EQUIPMENT AND MATERIAL SCHEDULE	
DESCRIPTION	
MISC. HARDWARE	
FYA, W3-3, & D3-1 SIGNS	
#14 SIGNAL CABLE, IMSA 20-1	
POWER SERVICE, 240 VOLTS	
TRAFFIC SIGNAL HEAD BACKPLATES WITH REFLECTIVE BORDER	

GENERAL CONSTRUCTION NOTES:

1. STANDARD TRAFFIC SIGNAL OPERATING PLAN NO. 30 TO BE USED. OMIT PHASES 3, 5, AND 7.
2. PAVEMENT MARKINGS SHOWN ARE FOR ILLUSTRATIVE PURPOSES UNLESS OTHERWISE NOTED.
3. VIDEO DETECTION CAMERA LOCATIONS SHOWN ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED IN THE FIELD TO MINIMIZE OCCLUSION.

SUPPORTING STRUCTURES				
POLE NO.	POLE LENGTH (APPROX.)	POLE LOCATION (APPROX.)	LUMINAIRE ARM EXT. LENGTH (APPROX.)	COMMENTS
1.	37FT	STA 105+31.85 RT39	12 FT	40FT & 44FT MAST ARMS
2.	37FT	STA 104+68.84 LT37	12 FT	40FT & 60FT MAST ARMS

VIDEO DETECTION ZONE CHART					
ZONE	CAMERA	PHASE	SIZE	TYPE	COMMENTS
1	VDC 1	1	6'X50'	PRESENCE	
2A	VDC 2	2	6'X6'	PULSE	285' TO STOPLINE
2B	VDC 2	2	6'X6'	PULSE	140' TO STOPLINE
4	VDC 4	4	6'X12'	PRESENCE	
6A	VDC 6	6	6'X6'	PULSE	285' TO STOPLINE
6B	VDC 6	6	6'X6'	PULSE	140' TO STOPLINE
8A	VDC 8	8	6'X50'	PRESENCE	
8B	VDC 8	8	6'X50'	PRESENCE	10 SEC DELAY

SIGNAL CONTRACTOR SHALL COORDINATE WITH THE PRIME CONTRACTOR TO ENSURE THAT ALL CONDUITS ACROSS HUGH DANIEL DRIVE AND COUNTY ROAD 41 ARE IN PLACE BEFORE PAVEMENT FOR HUGH DANIEL DRIVE AND COUNTY ROAD 41 ARE INSTALLED TO PREVENT BORINGS AND OPEN CUTS.

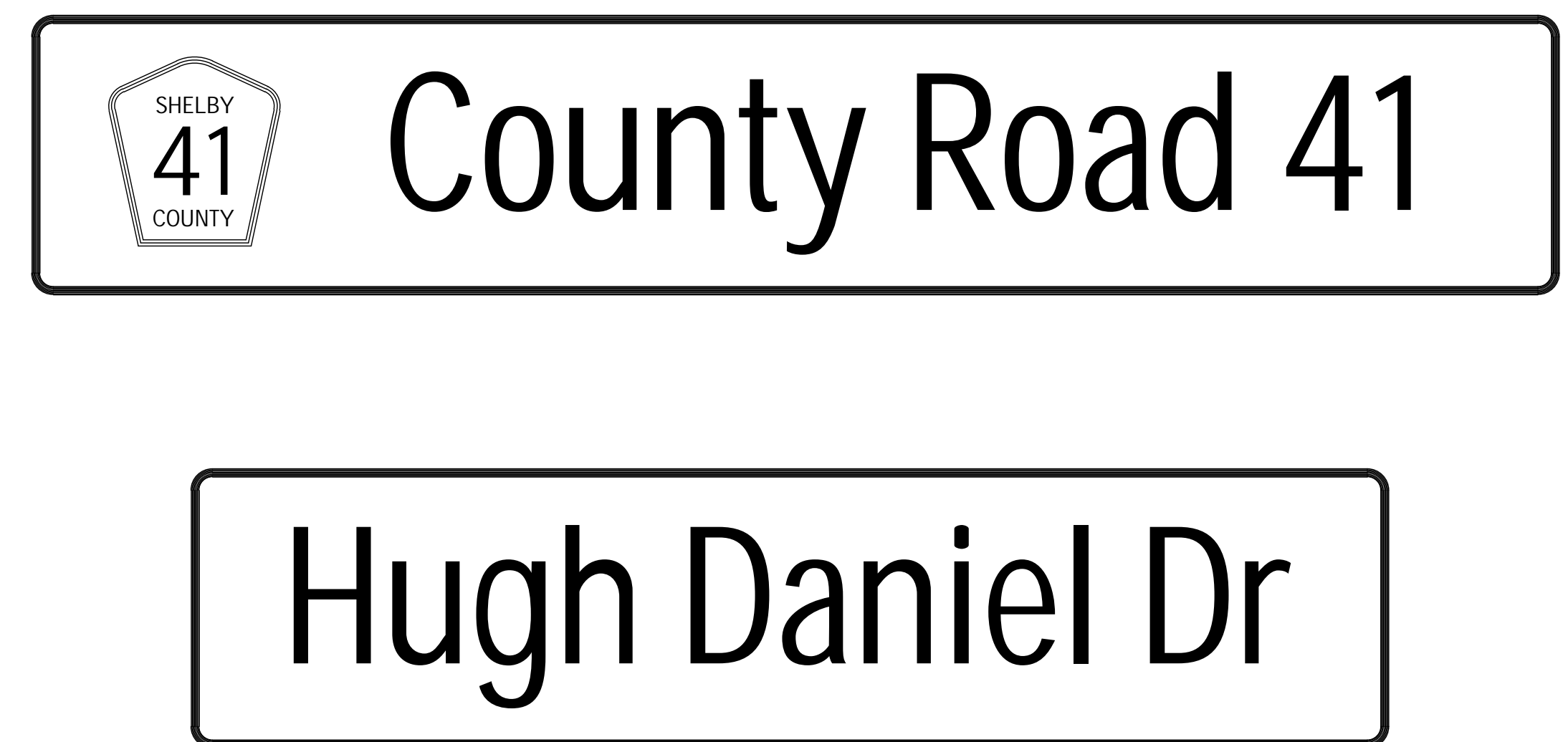


SKIPPER
CONSULTING INC

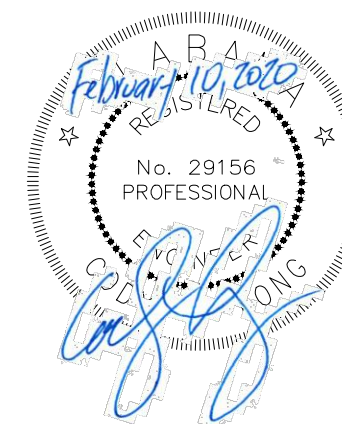
3644 VANN ROAD SUITE 100
BIRMINGHAM, ALABAMA 35235
TELEPHONE: (205)655-8855

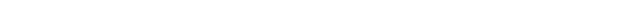
	RESPONSIBLE PE: Cody Long, P.E.	SUPERVISOR: Cody Long, P.E.	DESIGNER: Cody Long, P.E.	PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT	HORIZ 30 0 30 SCALE (FEET)	SHEET TITLE	ROUTE
	DATE: February 10, 2020	DATE: February 10, 2020	DATE: February 10, 2020	FINAL			TRAFFIC SIGNAL PLAN SHEET	CR 41

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	32



1. STREET NAME SIGNS SHALL BE TEMPLE EDGE LIT LED STREET NAME SIGNS OR APPROVED ALTERNATE.
2. STREET NAME SIGNS SHALL HAVE STANDARD GREEN BACKGROUNDS AND WHITE BORDER AS REQUIRED BY THE MUTCD LATEST EDITION.
3. STREET NAME SIGNS SHALL HAVE THE SHELBY COUNTY ROUTE SHIELD PLACED TO THE LEFT OF THE TEXT AS SHOWN IN THE DETAILS ABOVE. THE SHIELD SHALL SHOW THE APPROPRIATE COUNTY ROADWAY NUMBER.
4. STREET NAME SIGNS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE CENTER OF THE APPROACH OVER WHICH THE SIGN SHALL FACE. FINAL SIGN POSITIONING SHALL BE APPROVED BY SHELBY COUNTY.
5. THE STREET NAME SIGNS SHALL BE MOUNTED UNDER THE MAST ARM USING THE UNDERHANG TYPE MOUNT UNLESS OTHERWISE APPROVED BY SHELBY COUNTY.
6. THE SIGN MANUFACTURER SHALL SIZE THE STREET NAME SIGN ACCORDING TO THE REQUIRED TEXT AND SYMBOLS AND SUBMIT TO SHELBY COUNTY FOR APPROVAL PRIOR TO CONSTRUCTION.



	RESPONSIBLE PE: Cody Long, P.E.	SUPERVISOR: Cody Long, P.E.	DESIGNER: Cody Long, P.E.	PLAN SUBMITTAL	<div style="text-align: center;"> SHELBY COUNTY HIGHWAY DEPARTMENT </div>	<div style="text-align: center;"> <div>30 0 30</div> <div>HORIZ  SCALE (FEET)</div> </div>	SHEET TITLE	ROUTE
	DATE: February 10, 2020	DATE: February 10, 2020	DATE: February 10, 2020	FINAL			TRAFFIC SIGNAL DETAILS	CR 41

TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION AND QUANTITIES					REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO																																																																																																								
					SCP 59-900-19	2020	40																																																																																																								
<div>SEQUENCE OF CONSTRUCTION</div> <div>NOTE: ANY WORK CAN BE PERFORMED CONCURRENTLY, WITH APPROVAL OF THE ENGINEER, AS LONG AS IT DOES NOT CONFLICT WITH ANOTHER SEQUENCED ITEM OF WORK.</div> <div>PHASE I</div> <div><div>INSTALL ADVANCE WARNING SIGNS AND NECESSARY TRAFFIC CONTROL DEVICES.</div></div> <div>PHASE II:</div> <div><div>UTILIZE THE TRAFFIC CONTROL PLAN PHASE II (SEE SHEET 42) TO INSTALL ALL TRAFFIC CONTROL DEVICES AND SIGNING NECESSARY TO SHIFT ALL TRAFFIC TO THE CONFIGURATIONS SHOWN IN THE PLAN.</div><div>PERFORM THE REQUIRED GRADING, DRAINAGE AND PAVING OPERATIONS ALONG NORTHBOUND SIDE OF COUNTY ROAD 41, THROUGH THE UPPER BINDER LAYER.</div></div> <div>PHASE III</div> <div><div>UTILIZE THE TRAFFIC CONTROL PLAN PHASE III (SEE SHEET 43) TO INSTALL ALL TRAFFIC CONTROL DEVICES AND SIGNING NECESSARY TO SHIFT ALL TRAFFIC ONTO SOUTHBOUND LANE ON COUNTY ROAD 41.</div><div>PERFORM THE REQUIRED GRADING, DRAINAGE, AND PAVING OPERATIONS ALONG THE SOUTHBOUND SIDE ON COUNTY ROAD 41, AND HUGH DANIEL THROUGH THE UPPER BINDER LAYER.</div></div> <div><div>INSTALL TRAFFIC SIGNALS AT INTERSECTION OF COUTY ROAD 41 AND HUGH DANIEL DRIVE.</div></div> <div>PHASE IV</div> <div><div>MILL THEN PLACE THE WEARING SURFACE THROUGHOUT THE PROJECT. PLACE TEMPORARY STRIPE AND TEMPORARY MARKINGS, AS SHOWN ON SHEET 20.</div></div> <div>PHASE V</div> <div><div>INSTALL THE REQUIRED PERMANENT STRIPING, MARKINGS, LEGENDS AND MARKERS AS SHOWN ON SHEETS 20.</div><div>COMPLETE ALL REMAINING ITEMS OF WORK.</div><div>REMOVE ANY REMAINING TRAFFIC CONTROL SIGNS OR DEVICES AND OPEN ALL LANES TO TRAFFIC.</div></div>								<div>TCP NOTES: 700-705, 707-713, 715, 716, 720, 723, 725, 727-729, 732-737, 740, 742, 744, 747, 751, 752</div>																																																																																																							
<table><tr><th colspan="8">CONSTRUCTION SIGNS (740B-000)</th></tr><tr><th>SIGN NO</th><th>DESCRIPTION</th><th>SIZE</th><th>QUANTITY</th><th>AREA (SQ FT)</th><th>TOTAL AREA (SQ FT)</th><th>SPECIAL AND STANDARD DRAWINGS</th><th>SIGN MOUNT</th></tr><tr><td>G20-2</td><td>END ROAD WORK</td><td>48"X24"</td><td>2</td><td>8.00</td><td>16</td><td>SHS-30</td><td>P</td></tr><tr><td>R2-1</td><td>SPEED LIMIT 40</td><td>24"X30"</td><td>2</td><td>5.00</td><td>10</td><td>SHS-1</td><td>P</td></tr><tr><td>R2-1</td><td>SPEED LIMIT 35</td><td>24"X30"</td><td>2</td><td>5.00</td><td>10</td><td>SHS-1</td><td>P</td></tr><tr><td>R2-1</td><td>SPEED LIMIT 25</td><td>24"X30"</td><td>2</td><td>5.00</td><td>10</td><td>SHS-1</td><td>P</td></tr><tr><td>W3-5b</td><td>REDUCED SPEED AHEAD</td><td>48"X48"</td><td>2</td><td>16.00</td><td>32</td><td>SHS-26</td><td>P</td></tr><tr><td>W8-15</td><td>GROOVED PAVEMENT</td><td>30"X30"</td><td>3</td><td>6.25</td><td>18.75</td><td>SHS-28</td><td>P</td></tr><tr><td>W8-15p</td><td>MOTORCYCLE (PLAQUE)</td><td>24"X18"</td><td>3</td><td>3.00</td><td>9</td><td>SHS-28</td><td>P</td></tr><tr><td>W20-1</td><td>ROAD WORK AHEAD</td><td>48"X48"</td><td>3</td><td>16.00</td><td>48</td><td>SHS-29</td><td>P</td></tr><tr><td>W20-4</td><td>ONE LANE ROAD AHEAD</td><td>48"X48"</td><td>3</td><td>16.00</td><td>48</td><td>SHS-29</td><td>T</td></tr><tr><td>W20-7</td><td>FLAGGER</td><td>48"X48"</td><td>3</td><td>16.00</td><td>48</td><td>SHS-29</td><td>T</td></tr><tr><td colspan="5">TOTAL AREA</td><td>250</td><td colspan="2"></td></tr></table>								CONSTRUCTION SIGNS (740B-000)								SIGN NO	DESCRIPTION	SIZE	QUANTITY	AREA (SQ FT)	TOTAL AREA (SQ FT)	SPECIAL AND STANDARD DRAWINGS	SIGN MOUNT	G20-2	END ROAD WORK	48"X24"	2	8.00	16	SHS-30	P	R2-1	SPEED LIMIT 40	24"X30"	2	5.00	10	SHS-1	P	R2-1	SPEED LIMIT 35	24"X30"	2	5.00	10	SHS-1	P	R2-1	SPEED LIMIT 25	24"X30"	2	5.00	10	SHS-1	P	W3-5b	REDUCED SPEED AHEAD	48"X48"	2	16.00	32	SHS-26	P	W8-15	GROOVED PAVEMENT	30"X30"	3	6.25	18.75	SHS-28	P	W8-15p	MOTORCYCLE (PLAQUE)	24"X18"	3	3.00	9	SHS-28	P	W20-1	ROAD WORK AHEAD	48"X48"	3	16.00	48	SHS-29	P	W20-4	ONE LANE ROAD AHEAD	48"X48"	3	16.00	48	SHS-29	T	W20-7	FLAGGER	48"X48"	3	16.00	48	SHS-29	T	TOTAL AREA					250		
CONSTRUCTION SIGNS (740B-000)																																																																																																															
SIGN NO	DESCRIPTION	SIZE	QUANTITY	AREA (SQ FT)	TOTAL AREA (SQ FT)	SPECIAL AND STANDARD DRAWINGS	SIGN MOUNT																																																																																																								
G20-2	END ROAD WORK	48"X24"	2	8.00	16	SHS-30	P																																																																																																								
R2-1	SPEED LIMIT 40	24"X30"	2	5.00	10	SHS-1	P																																																																																																								
R2-1	SPEED LIMIT 35	24"X30"	2	5.00	10	SHS-1	P																																																																																																								
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W20-7	FLAGGER	48"X48"	3	16.00	48	SHS-29	T																																																																																																								
TOTAL AREA					250																																																																																																										
<table><tr><th colspan="5">TRAFFIC CONTROL SUMMARY OF QUANTITIES</th></tr><tr><th>ITEM NO</th><th>DESCRIPTION</th><th>UNIT</th><th>QUANTITY</th><th>SPECIAL AND STANDARD DRAWINGS</th></tr><tr><td>740B-000</td><td>CONSTRUCTION SIGNS</td><td>SQ FT</td><td>250</td><td>SHEET 55, IHS-710-12, IHS-710-21, IHS-710-23</td></tr><tr><td>740D-000</td><td>CHANNELIZING DRUMS</td><td>EACH</td><td>75</td><td>SHEET 55</td></tr><tr><td>740E-000</td><td>CONES (36 INCHES HIGH)</td><td>EACH</td><td>50</td><td>SHEET 55</td></tr><tr><td>740M-001</td><td>BALLAST FOR CONES</td><td>EACH</td><td>50</td><td>SHEET 55</td></tr><tr><td>742A-001</td><td>PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2</td><td>EACH</td><td>2</td><td>PCMS-710</td></tr></table> <div>*NOTE: IA-720-K, IA-720-L, IA-720-N, IA-720-Z, IA-720-P, IA-720-Q, IA-720-T, IA-720-V, IA-720-W, IA-720-X,</div> <div><div>LEGEND:</div><div>T: TEMPORARY</div><div>P: POST</div><div>B: BARRICADE</div></div>								TRAFFIC CONTROL SUMMARY OF QUANTITIES					ITEM NO	DESCRIPTION	UNIT	QUANTITY	SPECIAL AND STANDARD DRAWINGS	740B-000	CONSTRUCTION SIGNS	SQ FT	250	SHEET 55, IHS-710-12, IHS-710-21, IHS-710-23	740D-000	CHANNELIZING DRUMS	EACH	75	SHEET 55	740E-000	CONES (36 INCHES HIGH)	EACH	50	SHEET 55	740M-001	BALLAST FOR CONES	EACH	50	SHEET 55	742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	EACH	2	PCMS-710																																																																					
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742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	EACH	2	PCMS-710																																																																																																											
<div><div>*FOR SIGNS TO BE PLACED IN PAVED SHOULDER, MOUNT SIGN ON DRUM.</div><div><div><div><div><div>W8-15</div><div>SHOULDER PAVEMENT</div></div><div><div>W8-15p</div><div></div></div></div><div>150'</div><div>OR AS DIRECTED BY THE ENGINEER</div><div><div>REQD (1) W8-15 & (1) W8-15p SIGNS</div><div></div></div><div>MILLED AREA TO BE OPENED TO TRAFFIC</div></div><div>DETAIL FOR TYPICAL INSTALLATION OF W8-15 & W8-15p SIGNS</div></div></div>																																																																																																															
			PLAN SUBMITTAL	<div><div>SHELBY COUNTY</div><div>ALABAMA</div><div>SHELBY COUNTY HIGHWAY DEPARTMENT</div></div>	NOT TO SCALE	SHEET TITLE	ROUTE																																																																																																								
			FINAL			TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION AND QUANTITIES	CR-41																																																																																																								

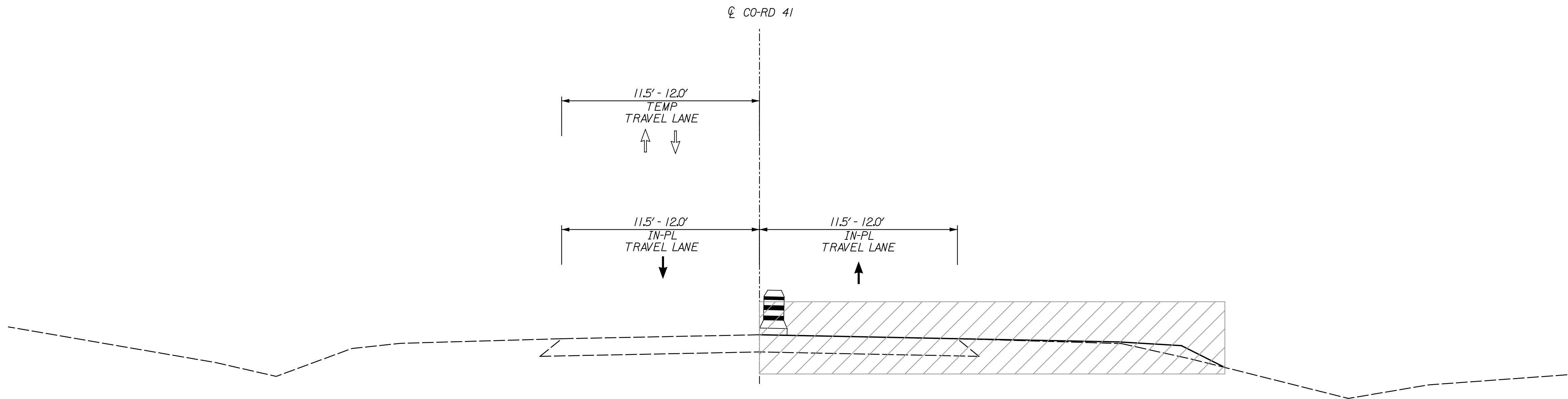
				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE
				FINAL			TRAFFIC CONTROL SEQUENCE OF CONSTRUCTION AND QUANTITIES	CR-41

TRAFFIC CONTROL PLAN

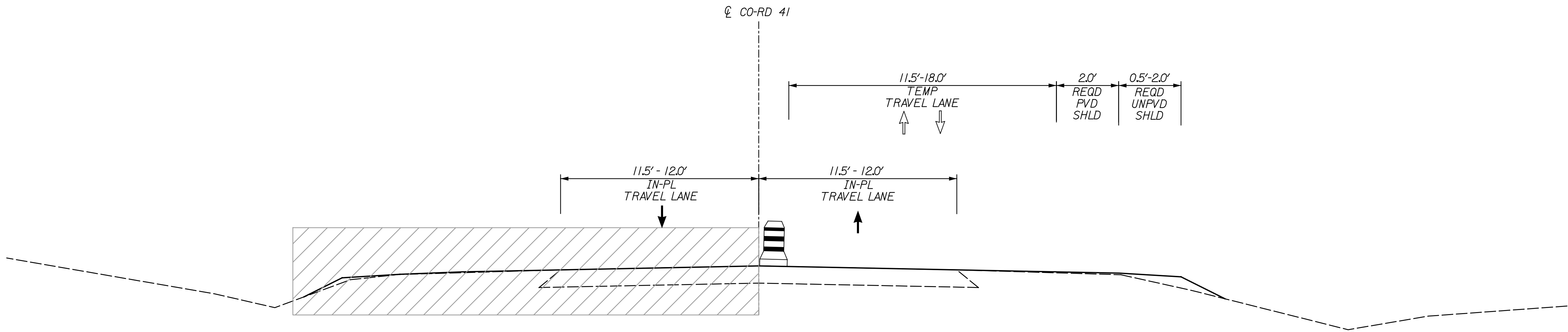
REFERENCE
PROJECT NO
SCP 59-900-19

FISCAL
YEAR
2020

SHEET
NO
41



TYPICAL SECTION FOR CO-RD 41
PHASE II



TYPICAL SECTION FOR CO-RD 41
PHASE III

LEGEND

↑

IN PLACE TRAFFIC

↑

TEMPORARY TRAFFIC

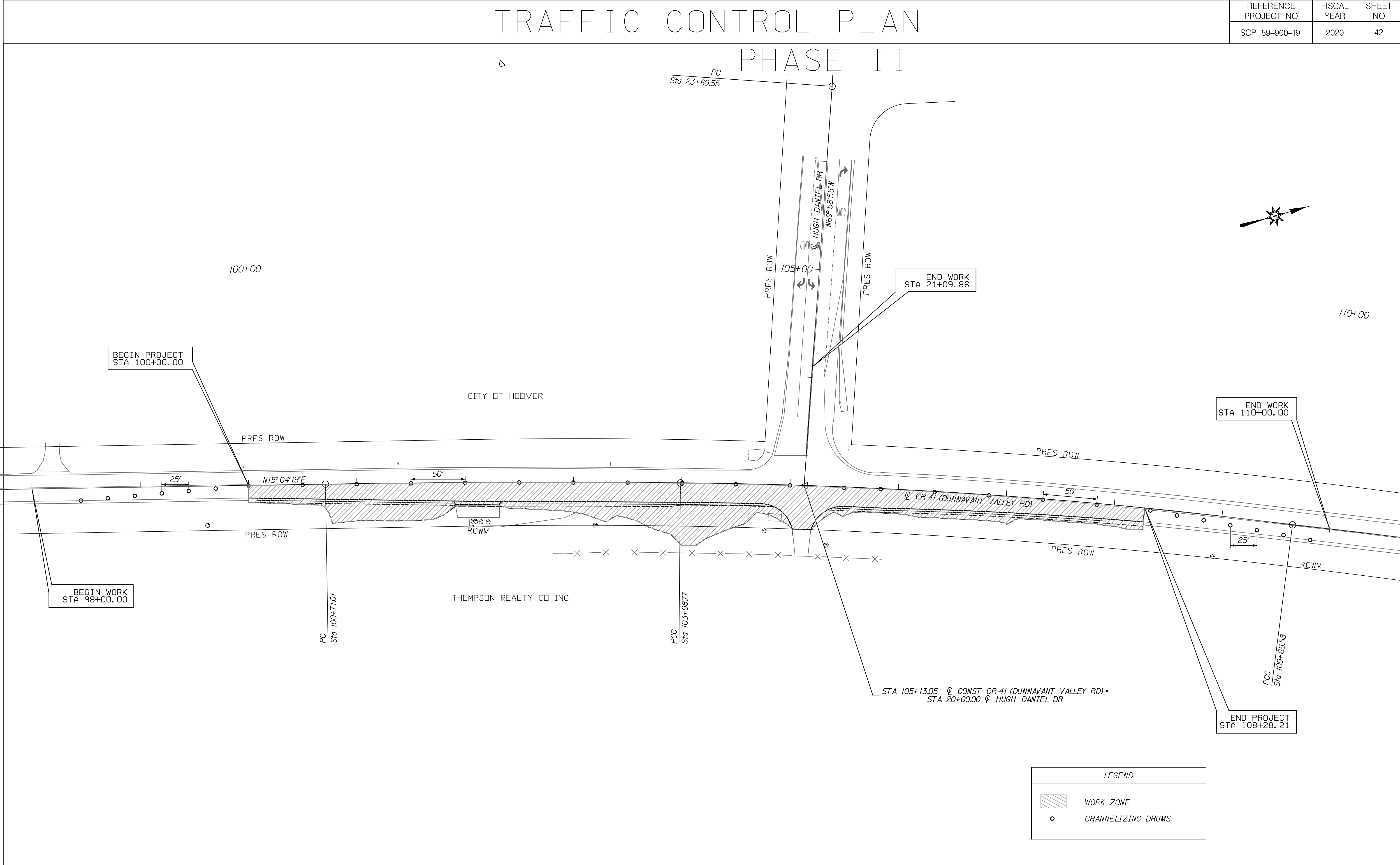
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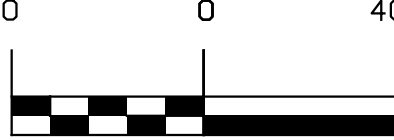
WORK ZONE

TRAFFIC CONTROL PLAN

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	42

PHASE II

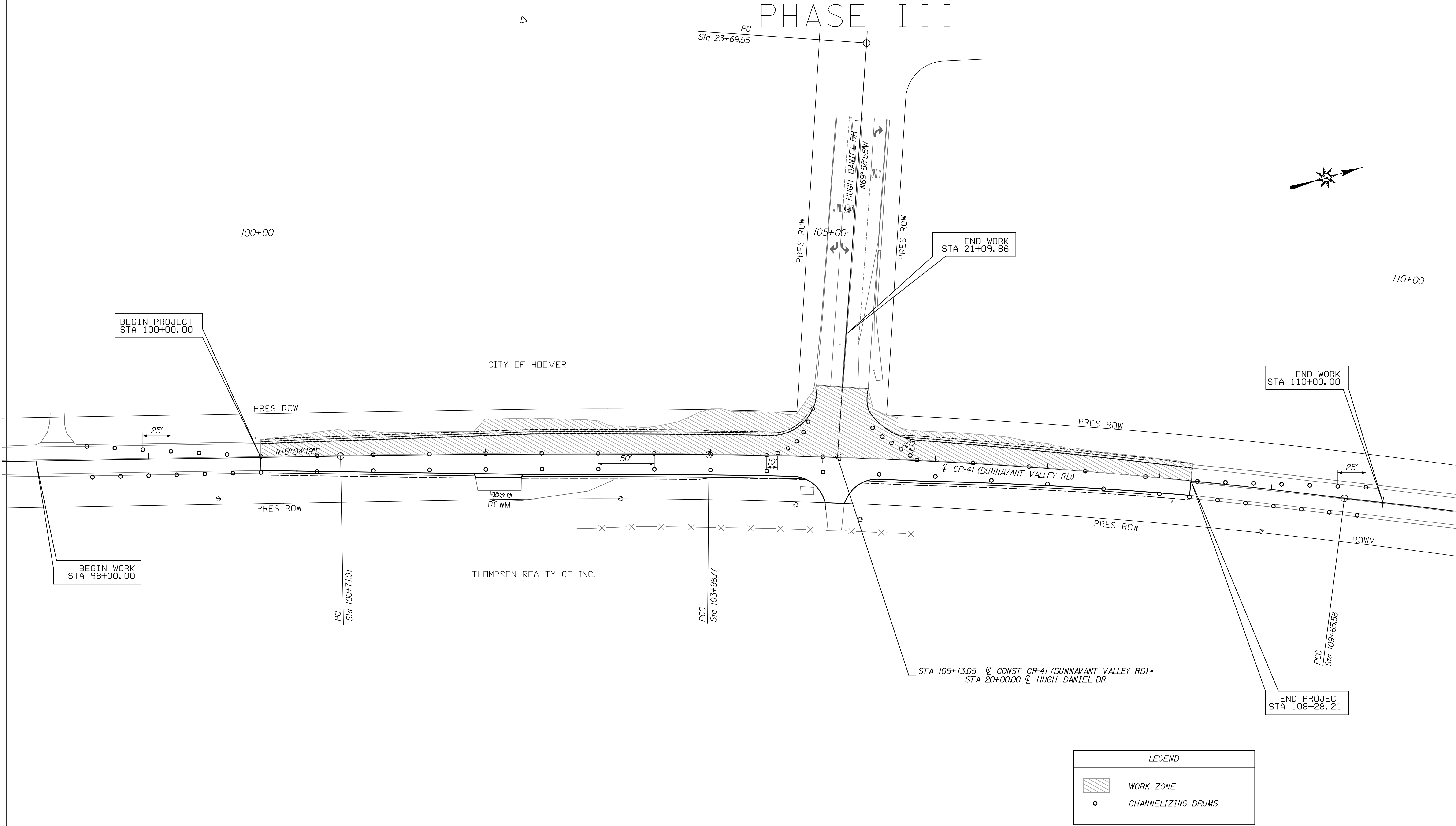



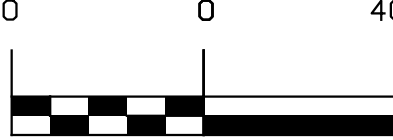
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				FINAL			TRAFFIC CONTROL PLAN PHASE II	CR-41

TRAFFIC CONTROL PLAN

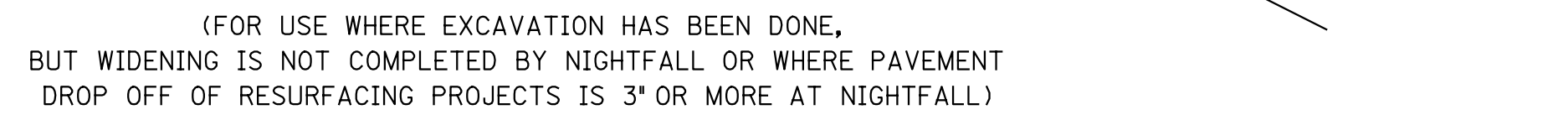
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SCP 59-900-19	2020	43

PHASE III



				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	HORIZ  SCALE (FEET)	SHEET TITLE	ROUTE
				FINAL			TRAFFIC CONTROL PLAN PHASE III	CR-41

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	44



NOTE: THE CONTRACTOR IS TO CONSTRUCT A WEDGE OF UNCLASSIFIED EXCAVATION OR CRUSHED AGGREGATE BASE .THE COST OF PLACING AND REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF THE ADJACENT LAYER.

[illegible]

1. SEE ALDOT'S GENERAL TRAFFIC CONTROL PLAN NOTE NO. 702.
2. DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT, MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER.
3. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

Diagram illustrating a road closure setup:

- Signs:**
 - ROAD CLOSED:** Dimensions: 30" X 30"
 - DETOUR:** Dimensions: 48" X 30"
 - Water Barrel Sign:** Dimensions: 48" X 18"
- Water Barrels:**
 - W1-6:** Dimensions: 48" X 24"
 - M4-10:** Dimensions: 48" X 18"

Diagram illustrating a road closure setup with two lanes. The left lane is closed, and the right lane is open.

Sign Dimensions:

- R5-1: 30" X 30"
- R11-2: 48" X 30"
- R11-3a: 60" X 30"
- W1-6: 48" X 24"
- M4-10: 48" X 18"

Sign Text:

- ROAD CLOSED
- DETOUR


Barrier Dimensions:

- W1-6: 48" X 24"
- M4-10: 48" X 18"

Sign Placement:

- R5-1 and R11-2 are placed on the left side of the closed lane.
- R11-3a is placed on the right side of the closed lane.
- W1-6 and M4-10 are placed on the right side of the closed lane.

1. SLOPE OF STRIPES ON BARRICADES SHALL BE IN ACCORDANCE WITH SECTION 6F.68 OF THE MUTCD AND DRAWING B-107-2.
2. IF SIGNS ARE REQUIRED TO BE USED IN CONJUNCTION WITH TYPE III BARRICADES TO BE PLACED INSIDE THE CLEAR ZONE, THEY SHALL BE POST MOUNTED TO THE SIDE OF THE BARRICADES AS SHOWN.
3. IF ROAD CLOSED OR DETOUR SIGNS ARE REQUIRED TO BE USED WITH TYPE III BARRICADES TO BE PLACED OUTSIDE THE CLEAR ZONE, THEY SHALL BE PLACED ON THE TOP OF THE BARRICADES NEAREST THE DETOUR.

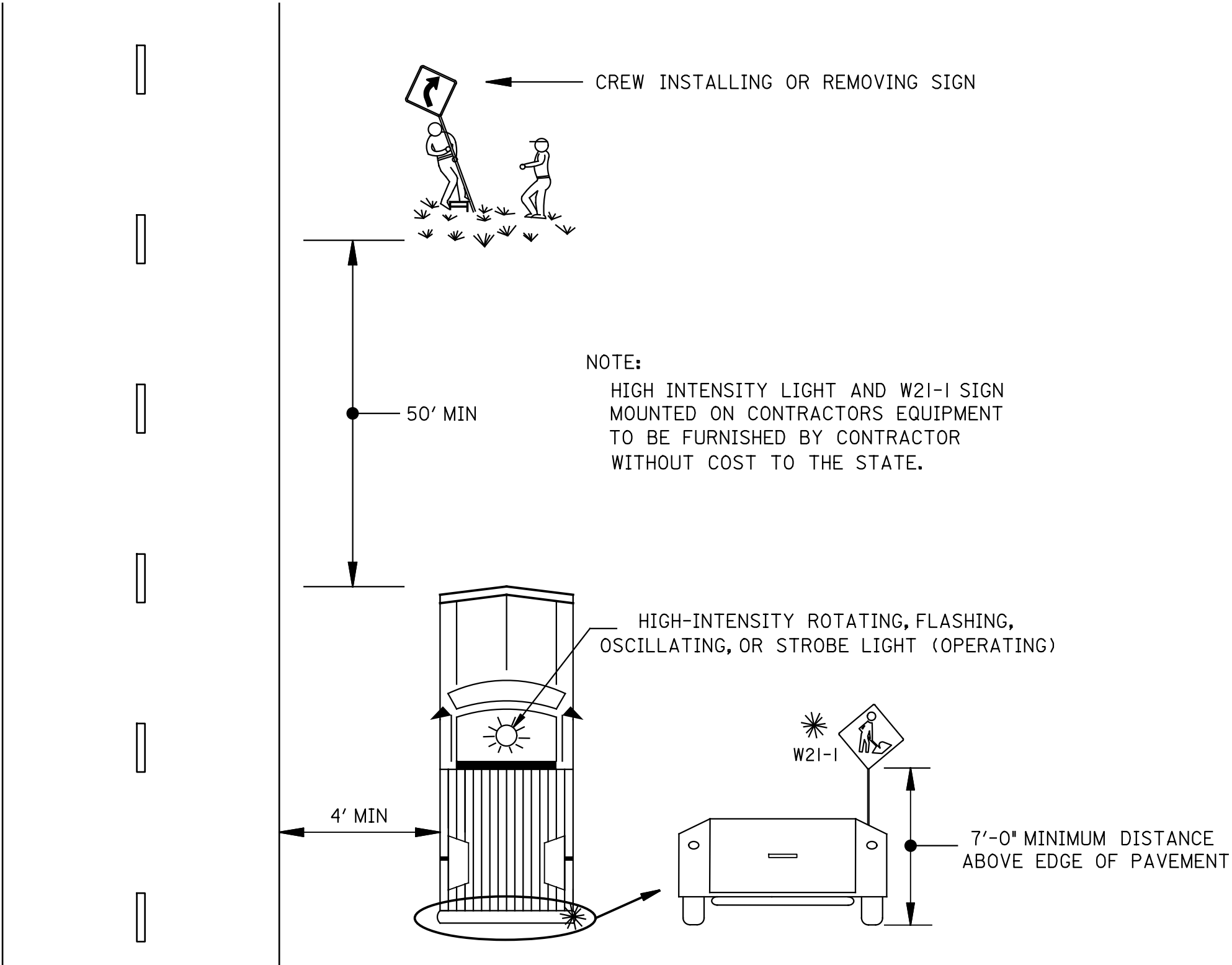


INDEX NO.
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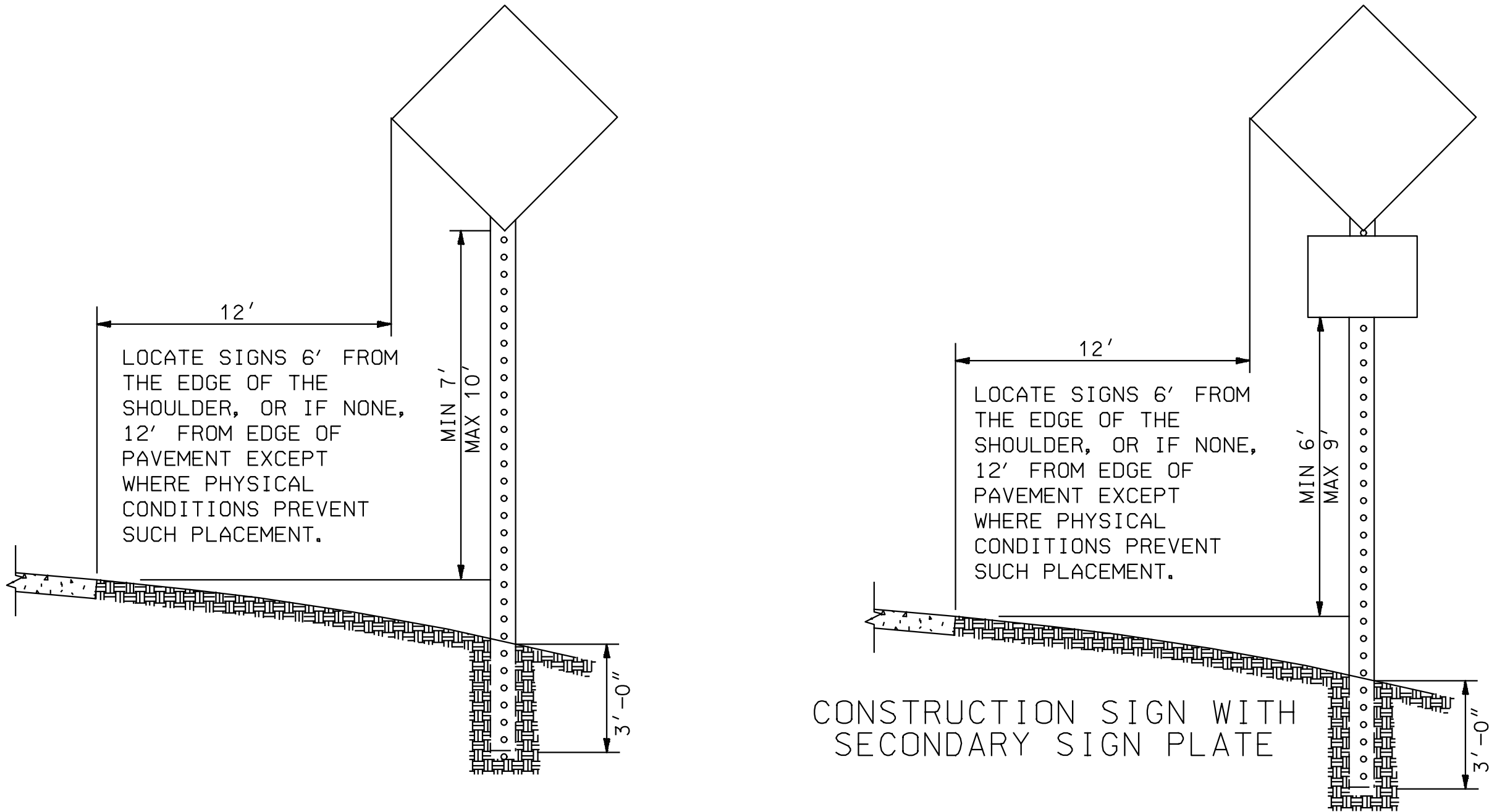


ROUTE

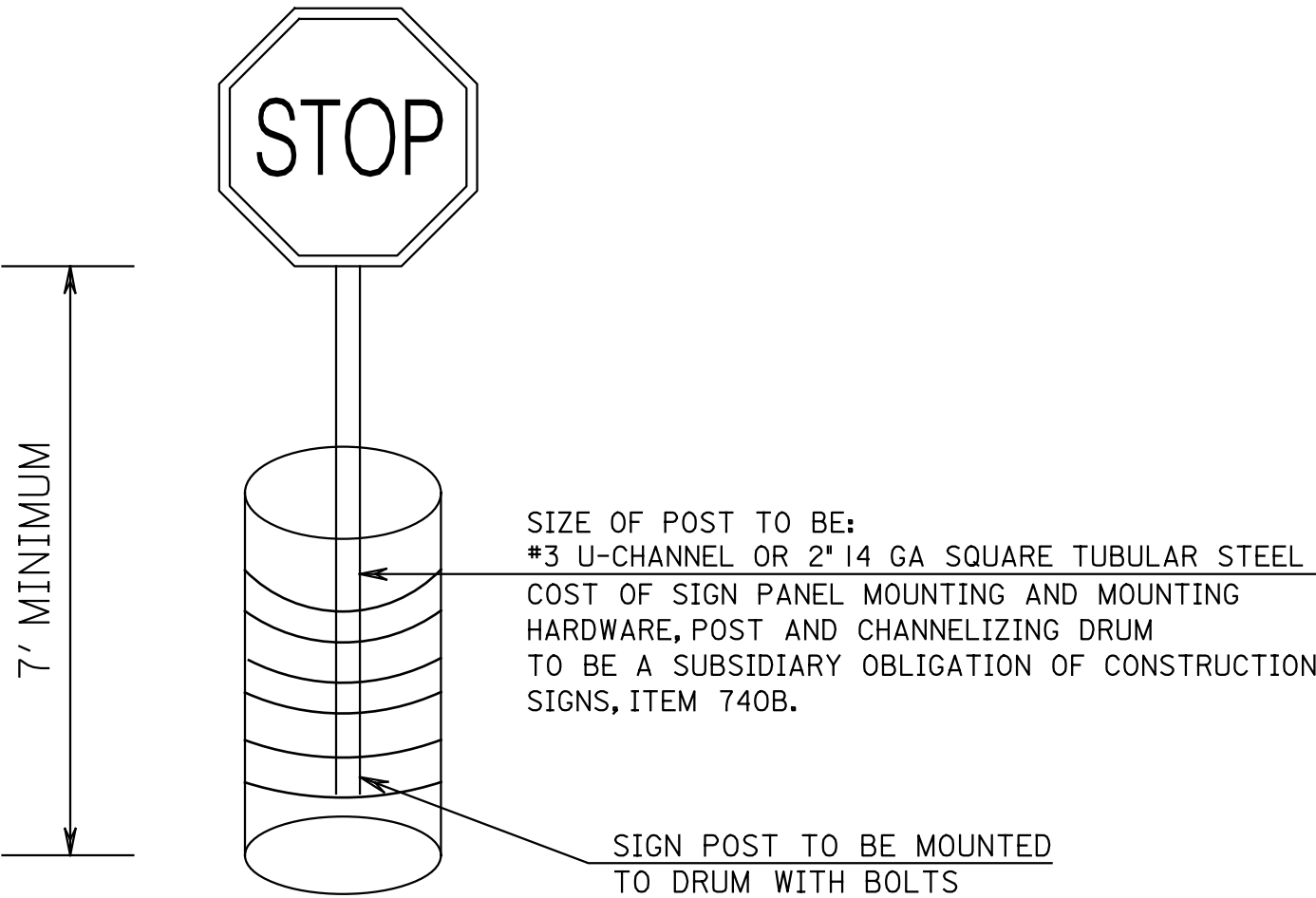
CR-41



TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS



HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

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ALABAMA DEPARTMENT OF TRANSPORTATION

1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
STANDARD DETAILS
FOR TRAFFIC CONTROL PLANS

DRAWN BY: _____
DATE DRAWN: 06/12/2019

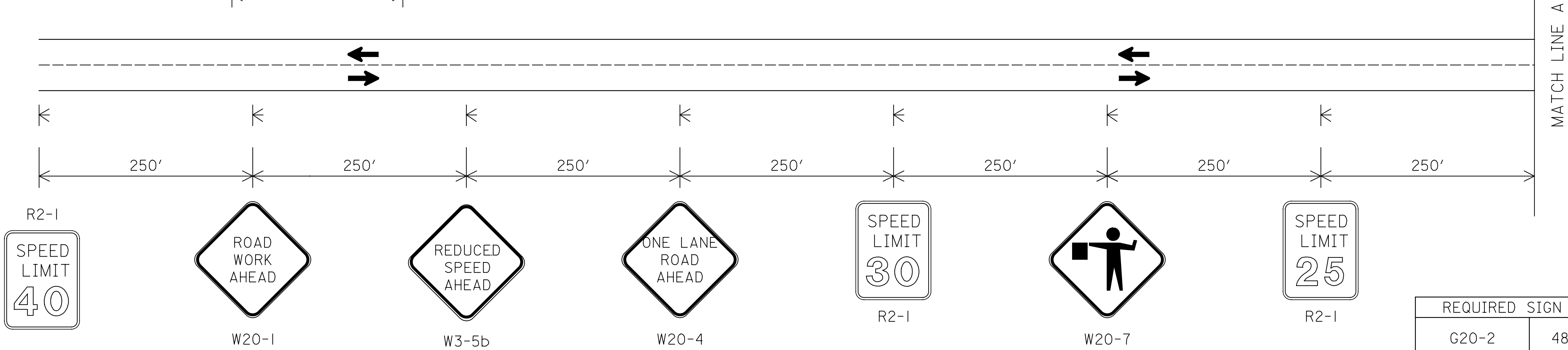
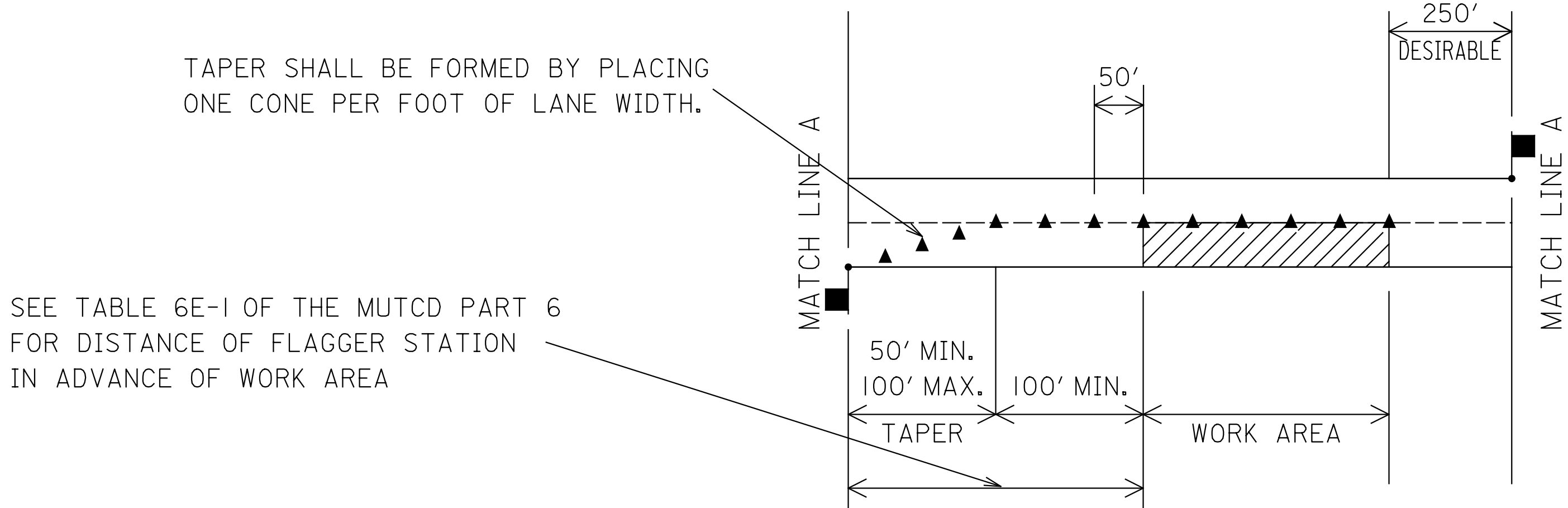
SPECIAL PROJECT DETAIL

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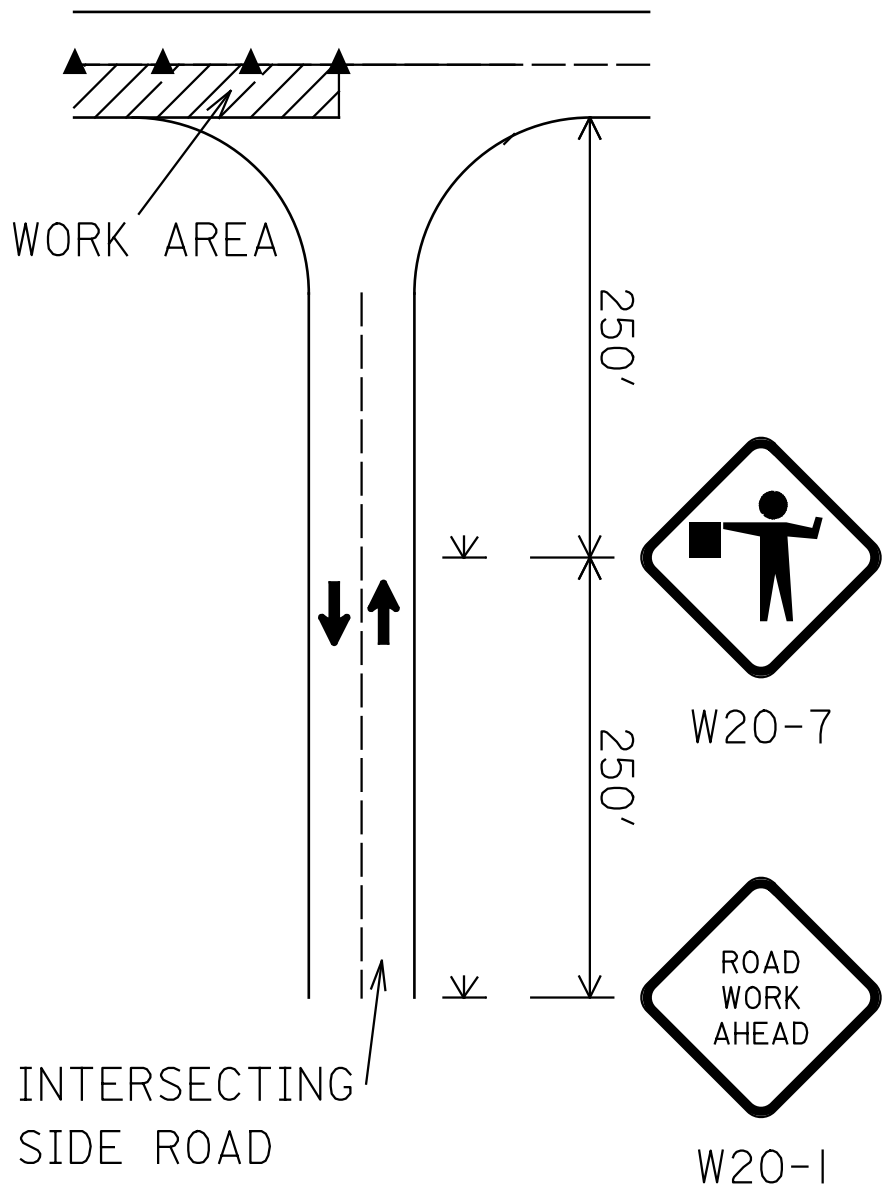
TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	46

TWO LANE HIGHWAY, ONE LANE CLOSURE



REQUIRED SIGN SIZES	
G20-2	48" X 24"
R2-1	24" X 30"
W3-5b	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

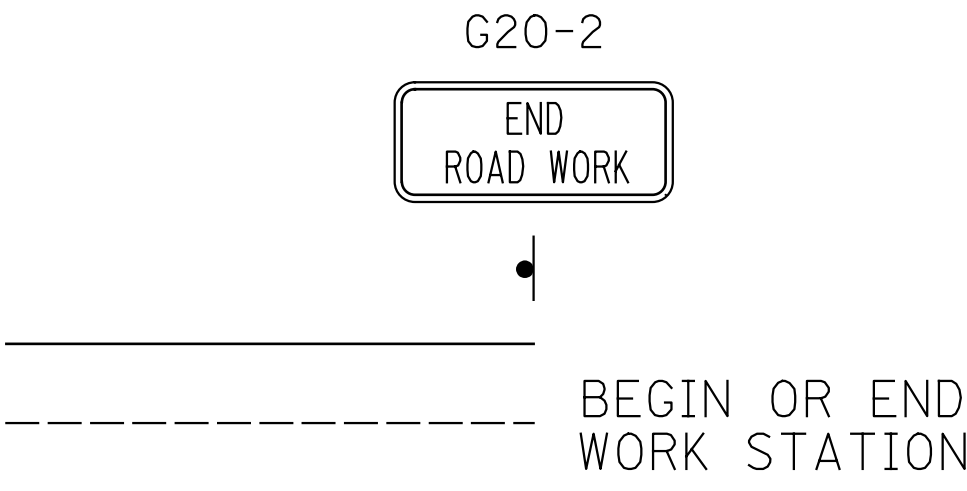


TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA

NOTE: THE W20-1 SIGN TO BE USED ON INTERSECTING ROADS SHALL BE 36"X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 SIGN SHOWN ON THE SIDE ROAD, WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.

- LEGEND
- TEMPORARY MOUNTED SIGN
 - POST MOUNTED SIGN
 - CONES
 - CHANNELIZING DRUM
 - FLAGGER
 - WORK AREA

TYPICAL PLACEMENT OF ADVANCE WARNING SIGNS AT BEGINNING AND END OF PROJECT

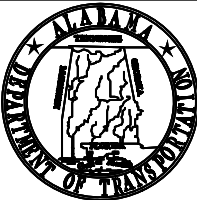


GENERAL NOTES

- THE ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.

THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.

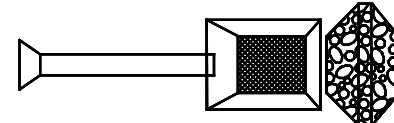


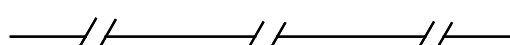
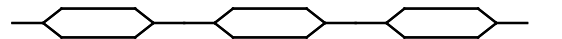


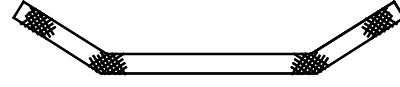
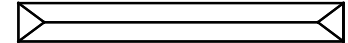
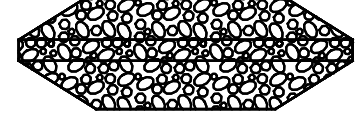
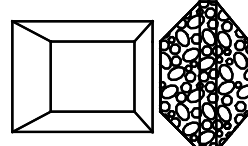
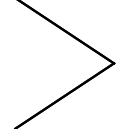
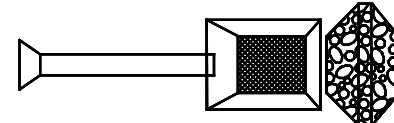


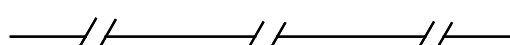
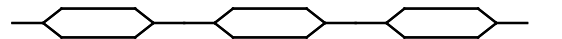


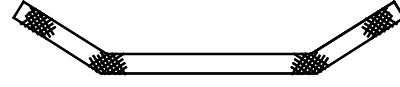
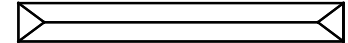
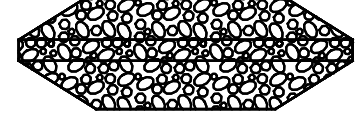
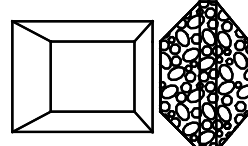
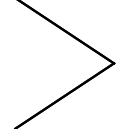
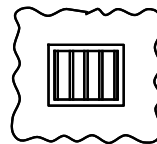


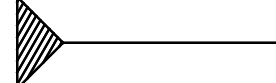





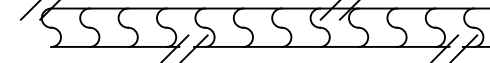
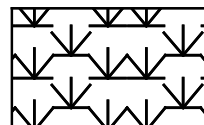
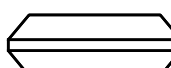
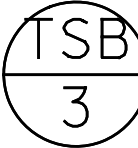

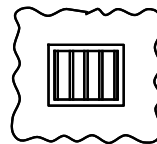


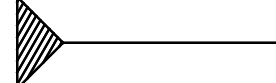





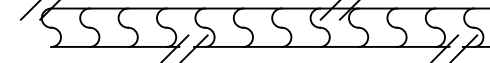
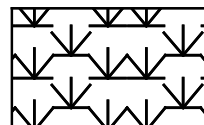
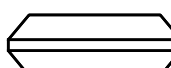
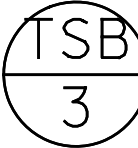

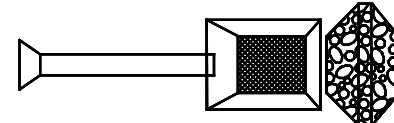


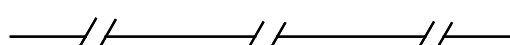
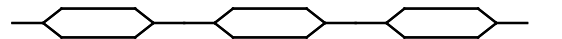


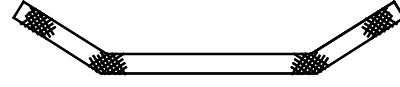
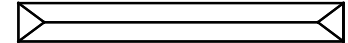
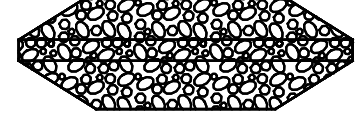
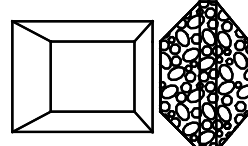
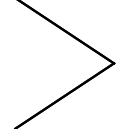
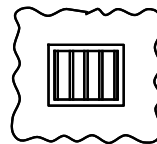


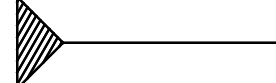





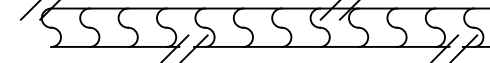
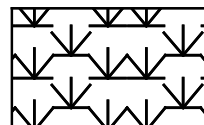
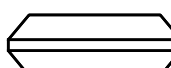
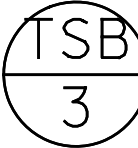





ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR
RESURFACING TWO LANE HIGHWAYS

DRAWN BY: _____	SPECIAL PROJECT DETAIL	INDEX NO.
DATE DRAWN: 06/12/2019		

				PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE		ROUTE	
				FINAL			TEMPORARY TRAFFIC CONTROL PLAN SHEET		CR-41	

EROSION AND SEDIMENT CONTROL PLANS LEGEND					REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO																																																						
					SCP 59-900-19	2020	50																																																						
BEST MANAGEMENT PRACTICES (BMP's)																																																													
<table><tr><td>TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION</td><td></td></tr><tr><td>TEMPORARY EARTH BERM</td><td></td></tr><tr><td>BRUSH BARRIER</td><td></td></tr><tr><td>SILT FENCE SEDIMENT BARRIER</td><td></td></tr><tr><td>FLOATING BASIN BOOM</td><td></td></tr><tr><td>HAY BALE DITCH CHECK</td><td></td></tr><tr><td>SAND BAG DITCH CHECK</td><td></td></tr><tr><td>WATTLE DITCH CHECK</td><td></td></tr><tr><td>SILT DIKE DITCH CHECK</td><td></td></tr><tr><td>ROCK DITCH CHECK</td><td></td></tr><tr><td>ROCK DITCH CHECK WITH SUMP EXCAVATION</td><td></td></tr><tr><td>SILT FENCE DITCH CHECK</td><td></td></tr></table>				TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION		TEMPORARY EARTH BERM		BRUSH BARRIER		SILT FENCE SEDIMENT BARRIER		FLOATING BASIN BOOM		HAY BALE DITCH CHECK		SAND BAG DITCH CHECK		WATTLE DITCH CHECK		SILT DIKE DITCH CHECK		ROCK DITCH CHECK		ROCK DITCH CHECK WITH SUMP EXCAVATION		SILT FENCE DITCH CHECK		<table><tr><td>INLET PROTECTION</td><td></td></tr><tr><td>STABILIZED CONSTRUCTION ENTRANCE</td><td></td></tr><tr><td>EROSION CONTROL PRODUCTS</td><td></td></tr><tr><td>SLOPE DRAIN</td><td></td></tr><tr><td>TEMPORARY EARTH BERM WITH POLYETHYLENE</td><td></td></tr><tr><td>DREDGE, FILL</td><td></td></tr><tr><td>PRIMARY STORMWATER DISCHARGE POINT</td><td></td></tr><tr><td>SECONDARY STORMWATER DISCHARGE POINT</td><td></td></tr><tr><td>BACKGROUND POINT</td><td></td></tr><tr><td>SEDIMENT RETENTION BARRIER</td><td></td></tr><tr><td>SOLID SODDING</td><td></td></tr><tr><td>TEMPORARY RIPRAP BERM</td><td></td></tr><tr><td>TEMPORARY SEDIMENTATION BASIN</td><td></td></tr><tr><td>PERMANENT DETENTION BASIN</td><td></td></tr></table>				INLET PROTECTION		STABILIZED CONSTRUCTION ENTRANCE		EROSION CONTROL PRODUCTS		SLOPE DRAIN		TEMPORARY EARTH BERM WITH POLYETHYLENE		DREDGE, FILL		PRIMARY STORMWATER DISCHARGE POINT		SECONDARY STORMWATER DISCHARGE POINT		BACKGROUND POINT		SEDIMENT RETENTION BARRIER		SOLID SODDING		TEMPORARY RIPRAP BERM		TEMPORARY SEDIMENTATION BASIN		PERMANENT DETENTION BASIN		<p>EROSION AND SEDIMENT CONTROL PHASES</p> <p>INITIAL PHASE - AS CLEARING BEGINS AND PRIOR TO ANY GRUBBING OR GRADING WORK.</p> <p>INTERMEDIATE PHASE - AS NEEDED. AS WORK IS ONGOING AND ADVANCING TOWARD COMPLETION.</p> <p>FINAL CONSTRUCTION - AS WORK IS COMPLETED AND PERMANENT VEGETATION IS ESTABLISHED.</p>	
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					<p>--SPECIFICATIONS--</p> <p>CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION</p> <div><div><p>THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE. ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.</p></div><div><div>REVISIONS</div><div><p>ALABAMA DEPARTMENT OF TRANSPORTATION 1409 COLISEUM BOULEVARD MONTGOMERY, AL 36130-3050</p><p>DESIGN BUREAU SPECIAL DRAWING</p><p>EROSION & SEDIMENT CONTROL LEGEND</p></div></div><div><div>Bureau Std Engr: _____ DRAWN BY: _____ DATE DRAWN: _____</div><div><p>SPECIAL DRAWING NO</p><p>SPECIAL PROJECT DETAIL</p></div><div>INDEX NO</div></div></div>																																																								
			PLAN SUBMITTAL	 <p>SHELBY COUNTY HIGHWAY DEPARTMENT</p>	NOT TO SCALE		SHEET TITLE	ROUTE																																																					
			FINAL				EROSION AND SEDIMENT CONTROL PLANS LEGEND	CR-41																																																					

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	51



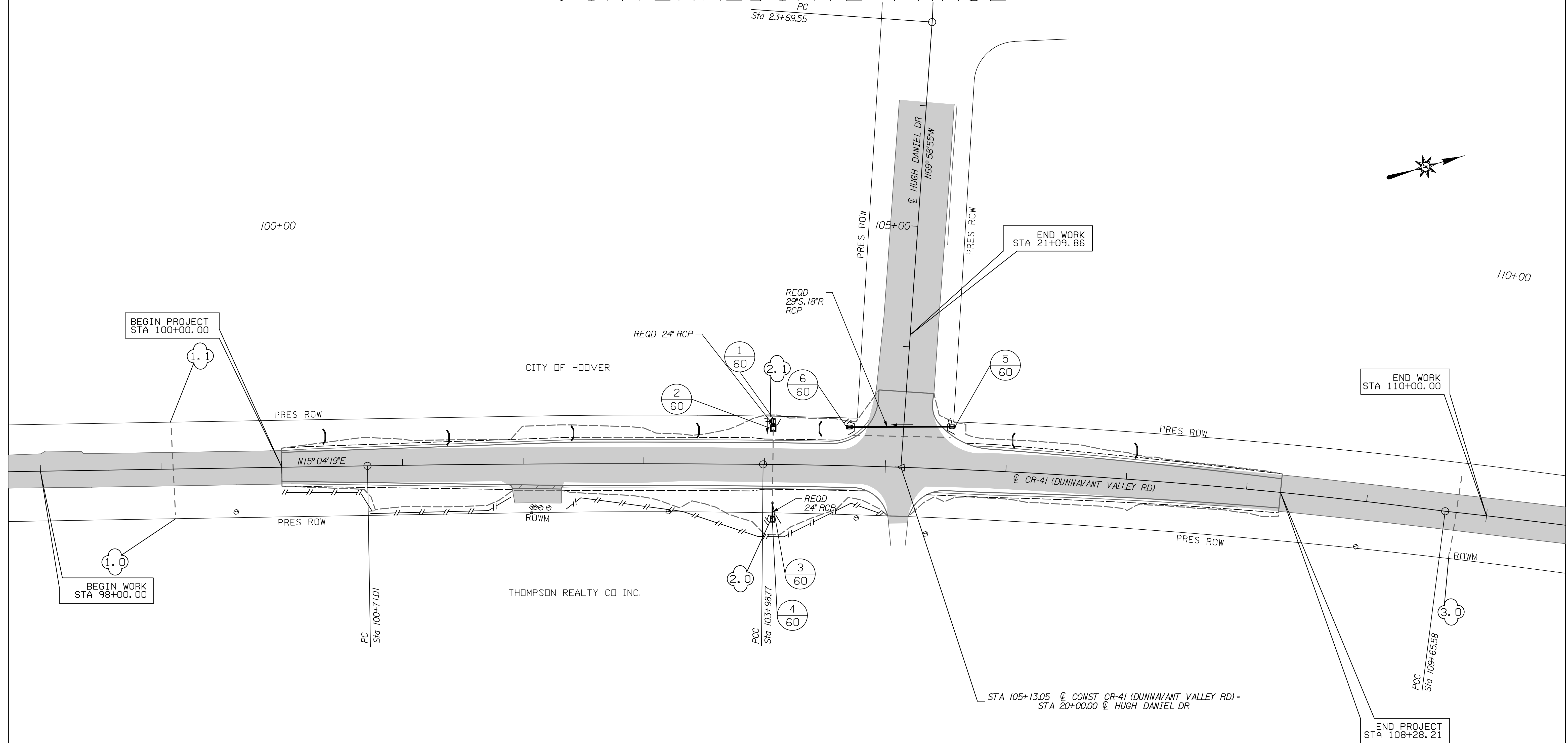
**SHELBY COUNTY
HIGHWAY DEPARTMENT**

SHEET TITLE	ROUTE
EROSION AND SEDIMENT CONTROL PLAN SHEET (INITIAL)	CR-41

EROSION AND SEDIMENT CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	52

INTERMEDIATE PHASE

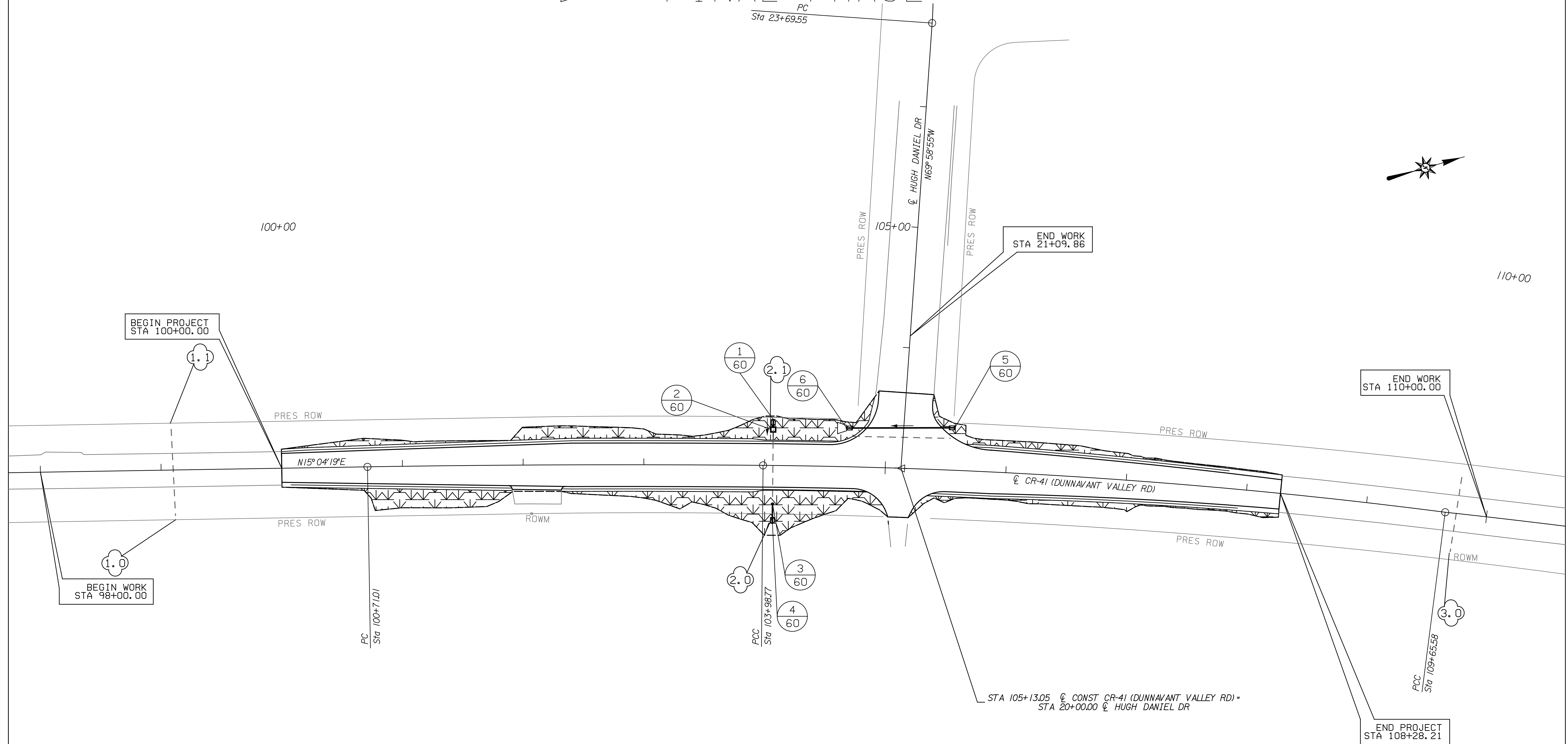




				PLAN SUBMITTAL	SHELBY COUNTY HIGHWAY DEPARTMENT	40 0 40 HORIZ SCALE (FEET)	SHEET TITLE	ROUTE
				FINAL			EROSION AND SEDIMENT CONTROL PLAN SHEET (INTERMEDIATE)	CR-41

EROSION AND SEDIMENT CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	53

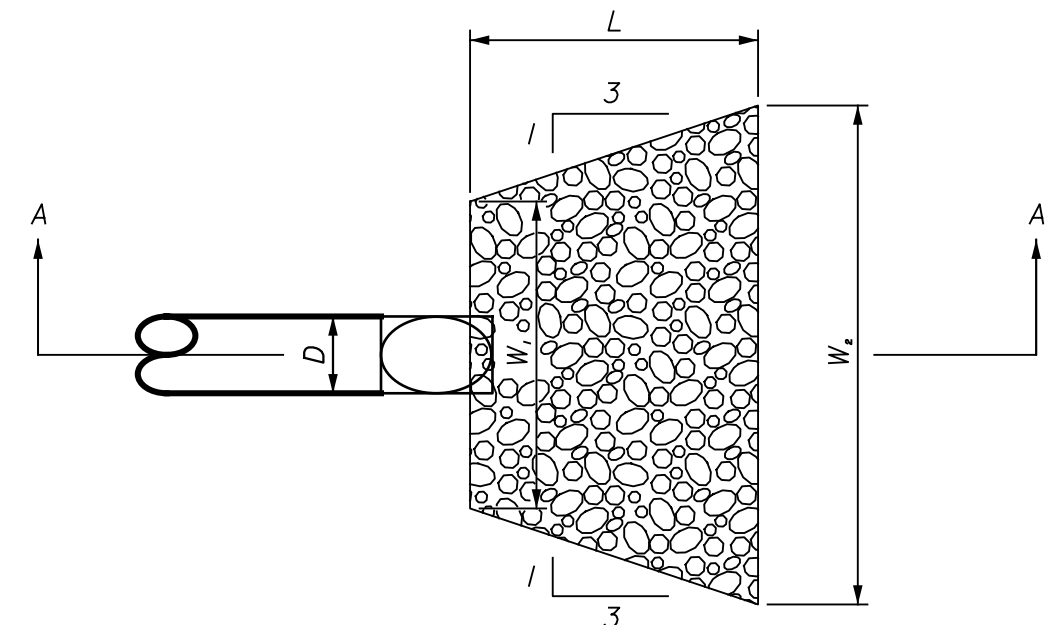
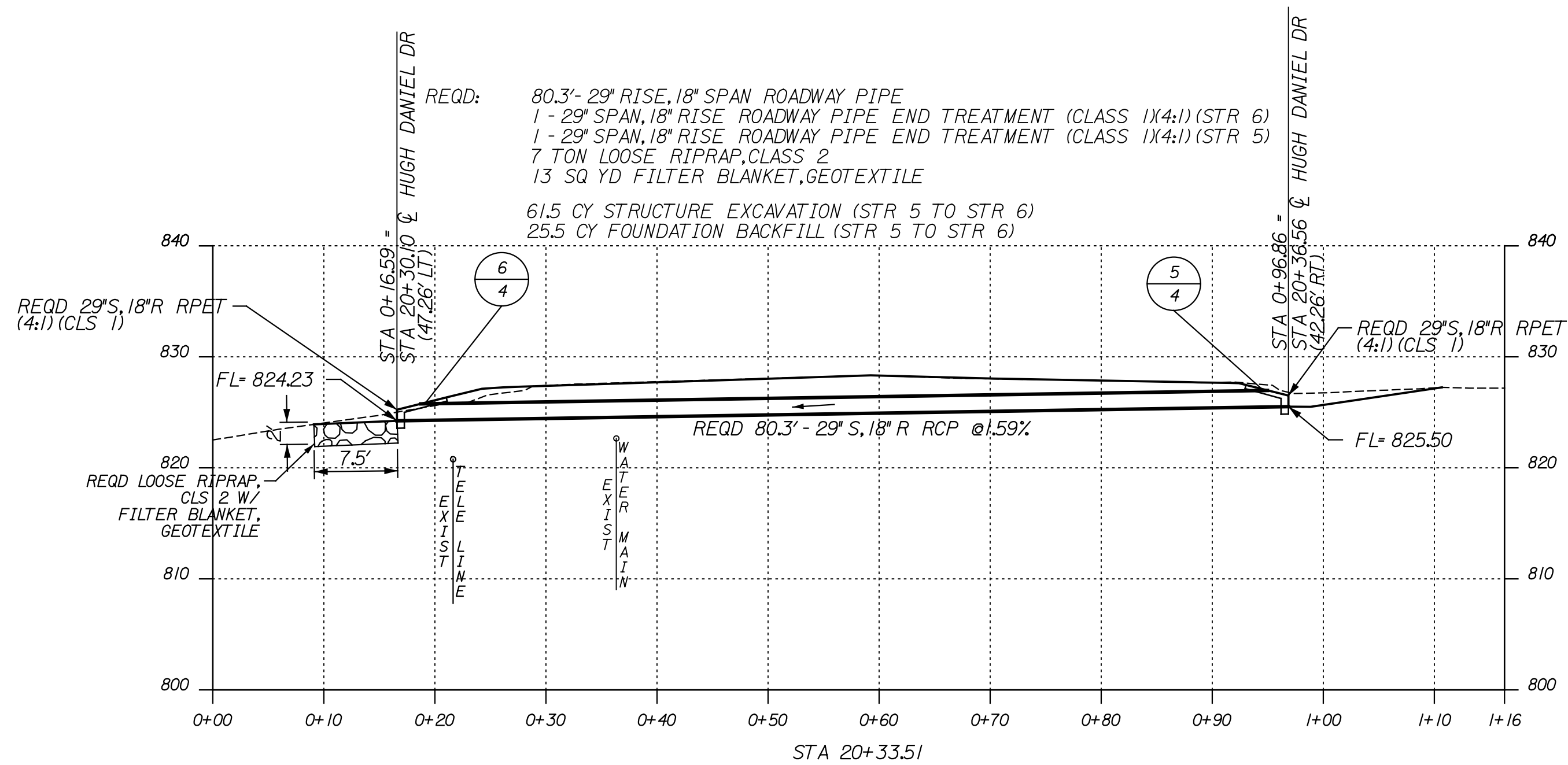
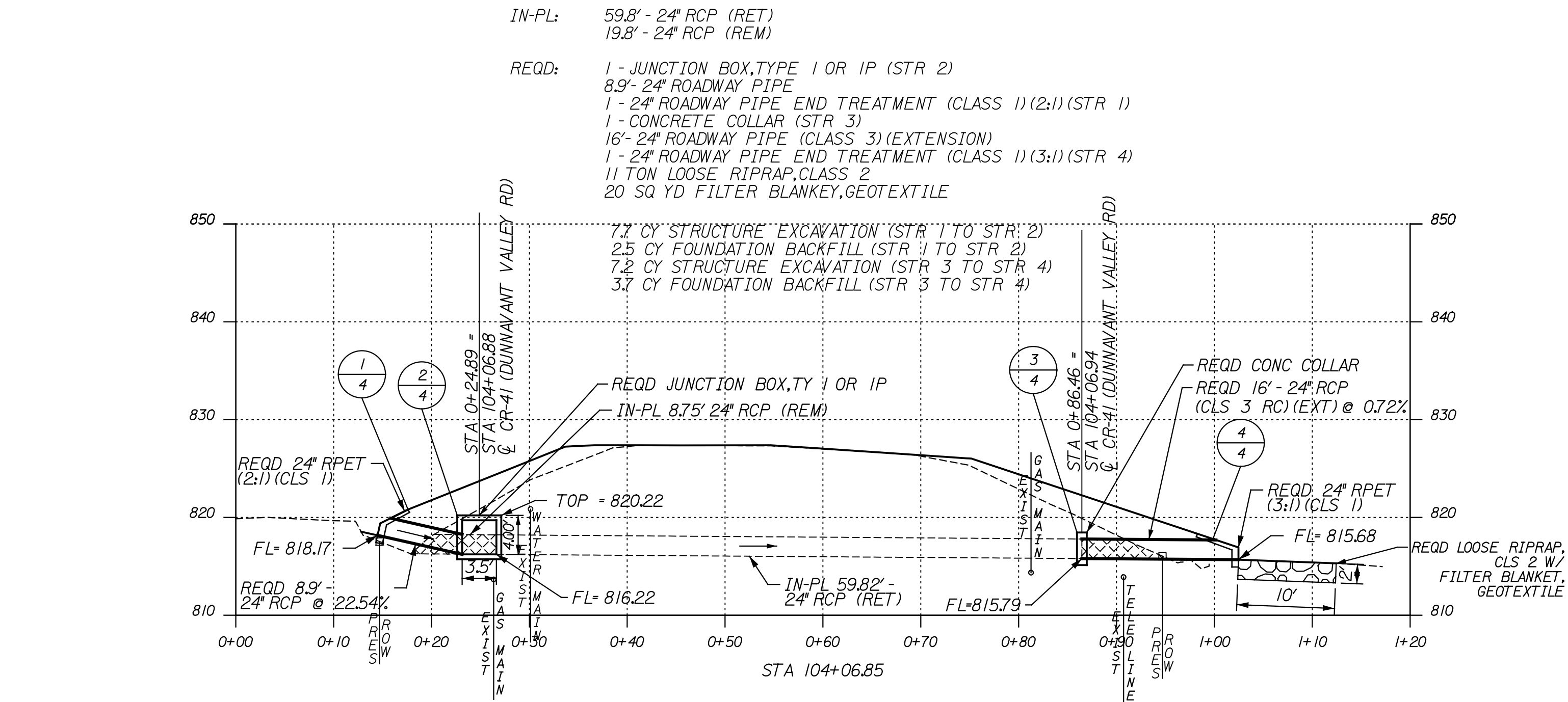
FINAL PHASE



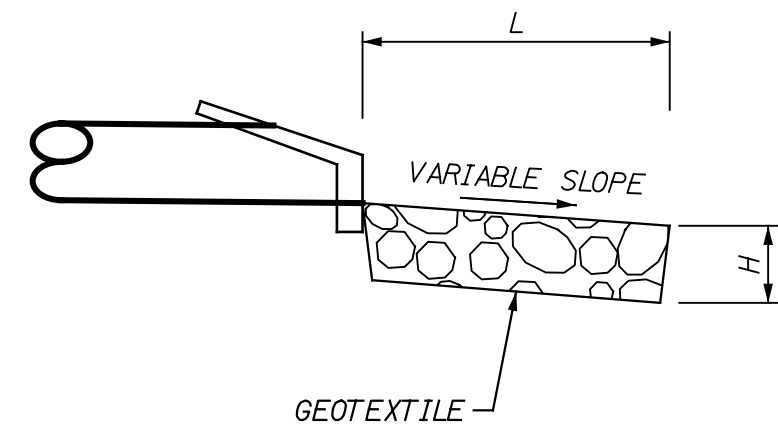
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				FINAL			EROSION AND SEDIMENT CONTROL PLAN SHEET (FINAL)	CR-41

DRAINAGE CROSS SECTION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	60



PLAN VIEW



INDEX NO.	DRAINAGE STRUCTURE SIZE (D)	CLASS RIPRAP	LENGTH OF APRON (L)	WIDTH AT BEGIN APRON (W1)	WIDTH AT END APRON (W2)	DEPTH OF APRON (H)
			LIN FT	(LIN FT)	(LIN FT)	(LIN FT)
6	29" SPAN, 18" RISE RCP	2	7.5	4.5	9.5	2
4	24" RCP	2	10	6	13	2

PLAN SUBMITTAL
FINAL



SHELBY COUNTY
HIGHWAY DEPARTMENT

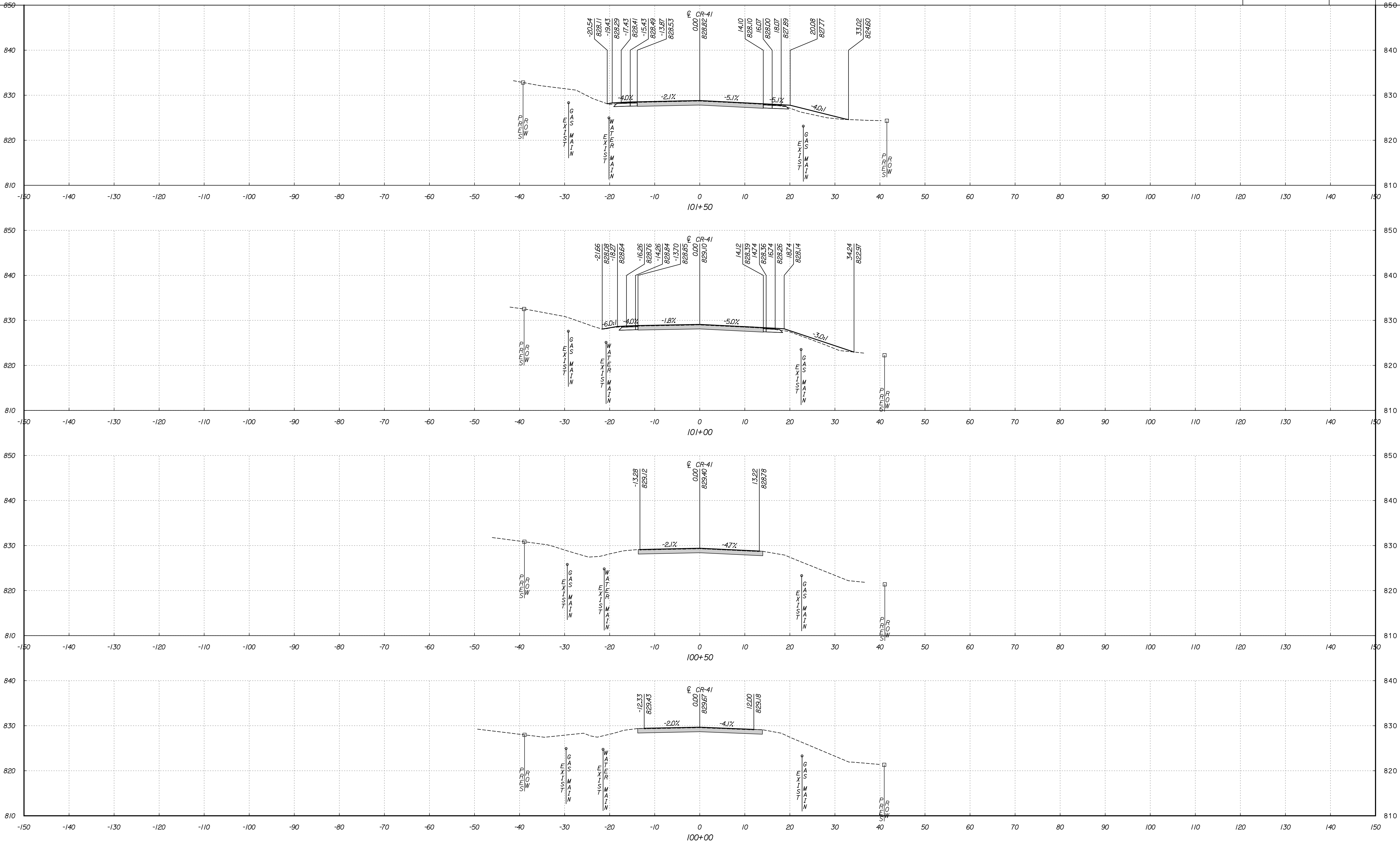


SHEET TITLE
DRAINAGE CROSS
SECTION SHEET

ROUTE
CR-41

ROADWAY CROSS SECTION SHEET

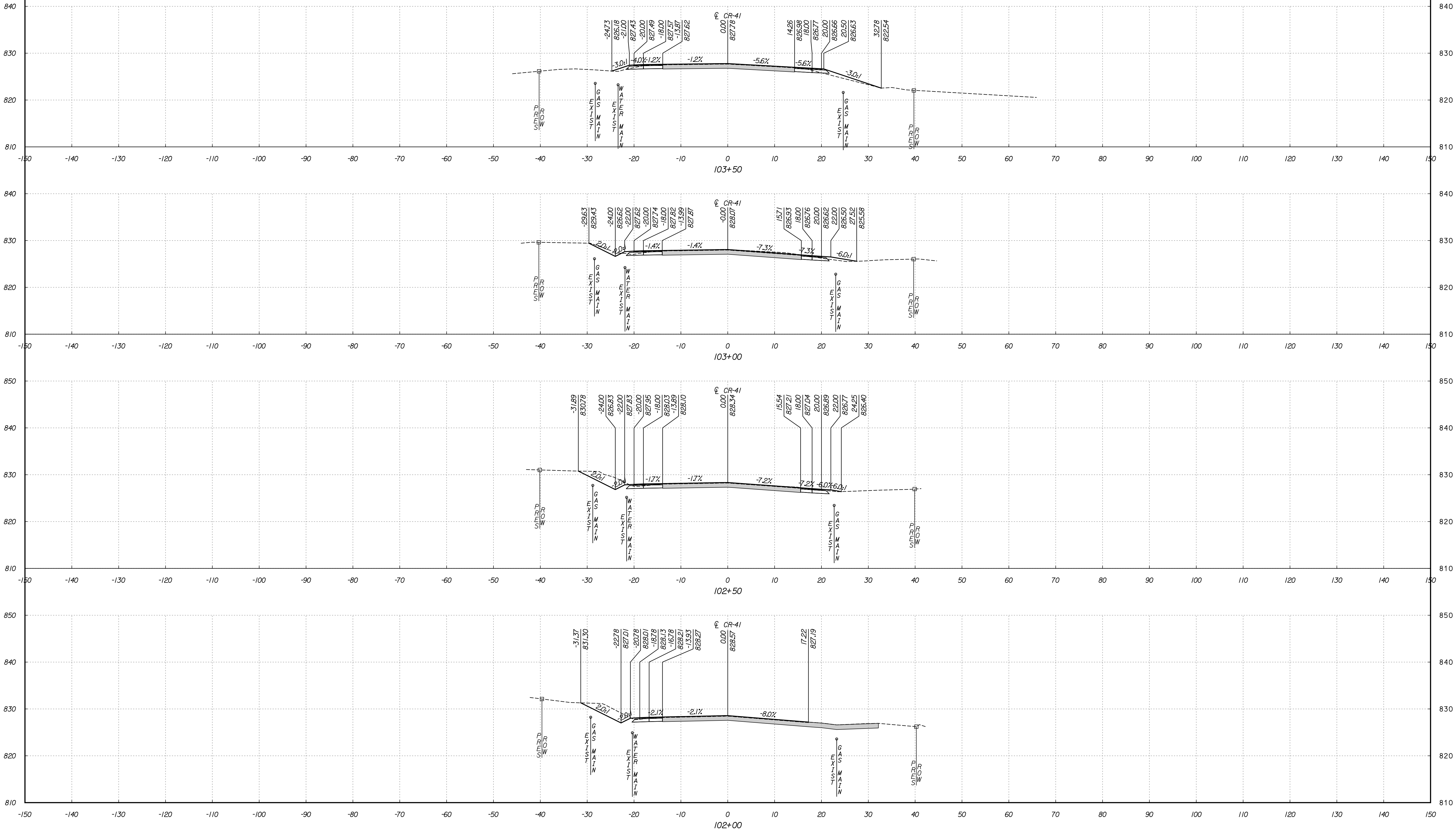
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	70



100+00.00 TO 101+50.00

ROADWAY CROSS SECTION SHEET

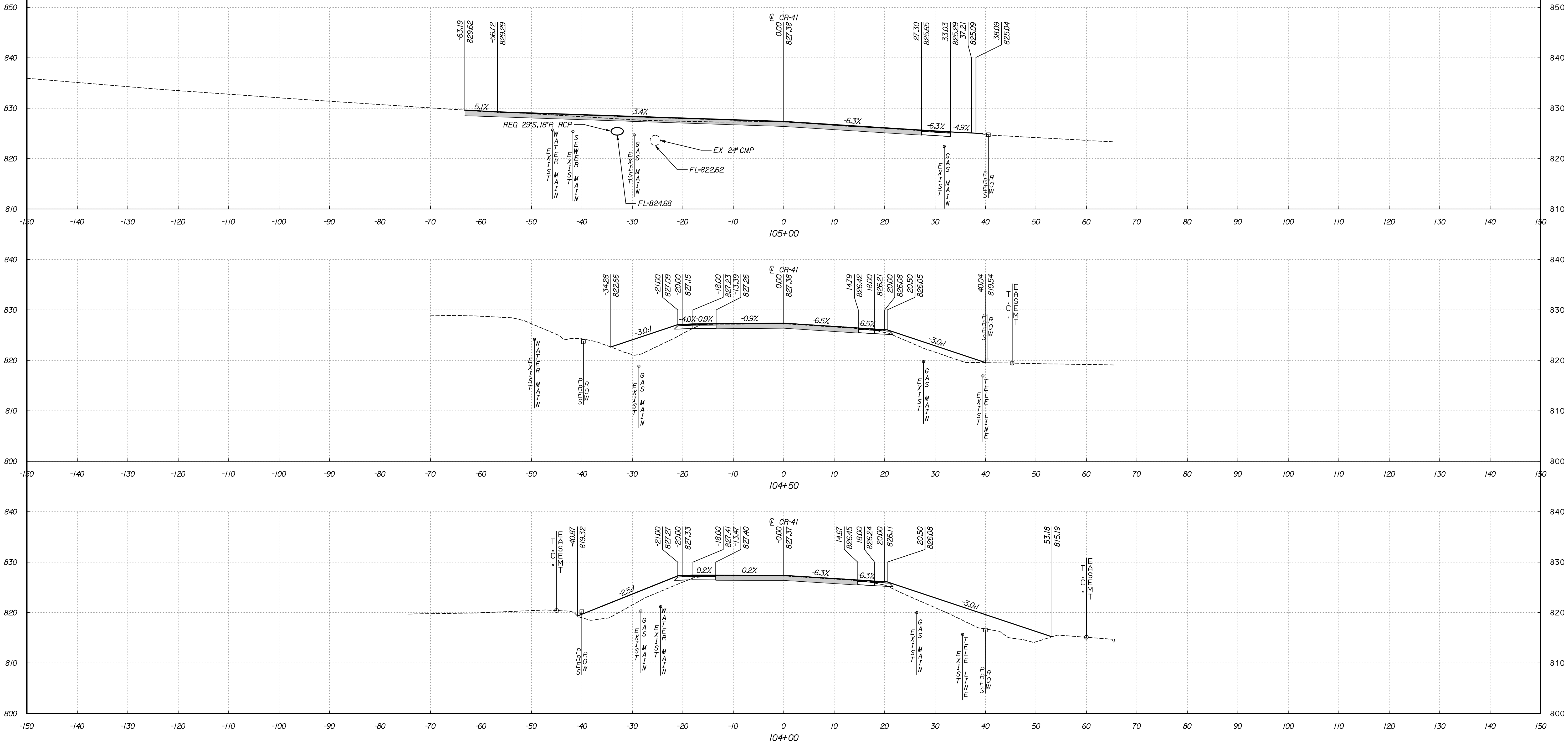
REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	71






102+00.00 TO 103+50.00

ROADWAY CROSS SECTION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	72

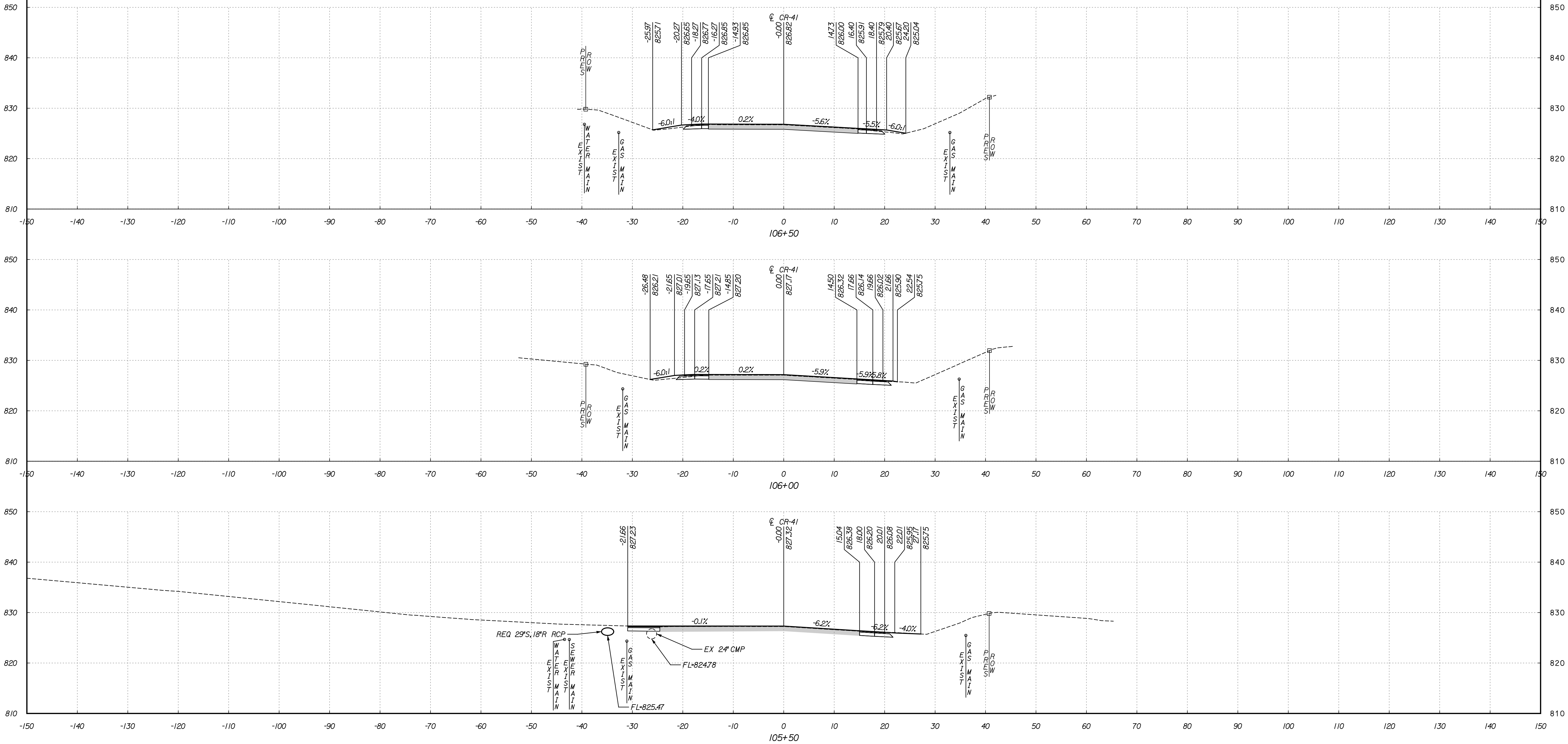


104+00.00 TO 105+00.00



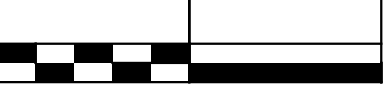
				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	10 HORIZ 0 10  SCALE (FEET) 10 VERT 0 10 	SHEET TITLE	ROUTE
							ROADWAY CROSS SECTION SHEET	CR-41

ROADWAY CROSS SECTION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	73

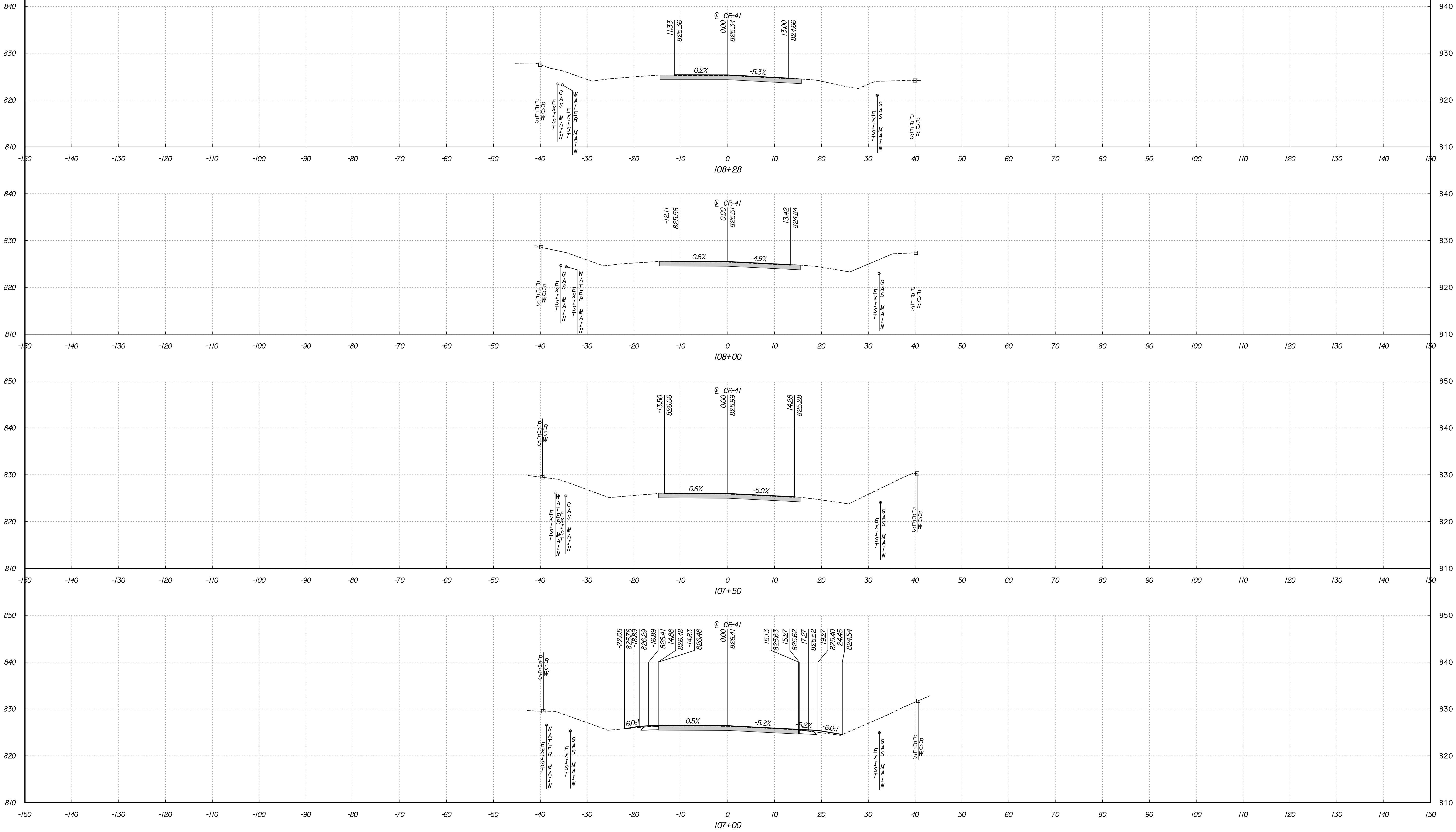


105+50.00 TO 106+50.00


				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	10' HORIZ 0 10'  SCALE (FEET) 10' VERT 0 10' 	SHEET TITLE	ROUTE
				FINAL			ROADWAY CROSS SECTION SHEET	CR-41

ROADWAY CROSS SECTION SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO
SCP 59-900-19	2020	74



107+00.00 TO 108+28.21

EARTHWORK SUMMARY SHEET					REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO																				
					SCP 59-900-19	2020	100																				
<div>PROJECT NOTES: GN-2 NOTES: 148</div>																											
<table><tr><th colspan="4">EARTHWORK SUMMARY</th></tr><tr><th>ROADWAY</th><th>UNCLASSIFIED EXCAVATION</th><th>BORROW EXCAVATION</th><th>REMARKS</th></tr><tr><td></td><td>210A-000 CU YD</td><td>210D-000 CU YD</td><td></td></tr><tr><td>FROM CROSS SECTIONS</td><td>318</td><td>500</td><td></td></tr><tr><td>TOTAL</td><td>318</td><td>500</td><td></td></tr></table>								EARTHWORK SUMMARY				ROADWAY	UNCLASSIFIED EXCAVATION	BORROW EXCAVATION	REMARKS		210A-000 CU YD	210D-000 CU YD		FROM CROSS SECTIONS	318	500		TOTAL	318	500	
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				PLAN SUBMITTAL	 SHELBY COUNTY HIGHWAY DEPARTMENT	NOT TO SCALE	SHEET TITLE	ROUTE																			
				FINAL			EARTHWORK SUMMARY SHEET	CR-41																			