

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: F 2024(934)

CONTROL: 0118-06-077

COUNTY: NACOGDOCHES

LETTING: 06/06/2024

REFERENCE NO: 0521

**PROPOSAL ADDENDUMS**

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X PROPOSAL COVER

X BID INSERTS (SH. NO.: 1-4, 3-4 )

X GENERAL NOTES (SH. NO.: E )

\_ SPEC LIST (SH. NO.: )

\_ SPECIAL PROVISIONS: )

ADDED:

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

\*\*\*PROPOSAL COVER\*\*\*

CHANGED NUMBER OF WORKING DAYS.

\*\*\*BID INSERTS\*\*\*

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS: 3081-6007, 502-6001.

\*\*\*SPECIFICATION DATA\*\*\*

SHEET 14B: (GENERAL NOTES): ITEM 354 REMOVED VARIABLE PLANNING NOTE.

\*\*\*PLAN SHEETS\*\*\*

SHEET 2: (INDEX OF SHEETS): ADDED SHEET 32A TCP(2-4)-18.

SHEET 15: (ESTIMATE & QUANTITY SHEET): REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS: 3081-6007, 502-6001.

SHEET 15B: (ESTIMATE & QUANTITY SHEET): REVISED QUANTITIES FOR THE DESCRIPTION OF ABOVE CHANGES (CONTINUED)  
(INCLUDING PLANS SHEET CHANGES)

FOLLOWING BID ITEMS: 3081-6007, 502-6001.

SHEET 16: (QUANTITY SUMMARIES): REVISED BID ITEM RATE AND QUANTITY  
3081-6007.


SHEET 32A: (TCP(2-4)-18): SHEET ADDED.

**SHEET NO. DESCRIPTION**

**GENERAL**

- 1 TITLE SHEET
- 2 INDEX OF SHEETS
- 3 LOCATION MAP
- 4-13 TYPICAL SECTIONS
- 14, 14A-14E GENERAL NOTES
- 15, 15A-15C ESTIMATE & QUANTITY SHEET
- 16-18 QUANTITY SUMMARIES

**TRAFFIC CONTROL PLAN**

- # 19-30 BC (1) -21 THRU BC (12) -21
- # 31 TCP (2-1) -18
- # 32 TCP (2-2) -18
- # 32A TCP (2-4) -18 
- # 33 TCP (3-1) -13
- # 34 TCP (3-3) -14
- # 35 TCP (3-4) -13
- # 36 TCP (S-1) -08A
- # 37 WZ (RS) -22
- # 38 WZ (STPM) -23

**ROADWAY DETAILS**

- 39 CONCRETE JOINT & BASE REPAIR DETAIL

**TRAFFIC ITEMS**

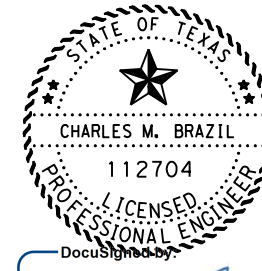
- # 40-42 PM (1) -22 THRU PM (3) -22
- # 43 PM (4) -22A
- # 44-45 RCD (1) -22 THRU RCD (2) -22

**ENVIRONMENTAL ISSUES**

- 46 EPIC

**RAILROAD**

- 47-48 RAILROAD SCOPE OF WORK
- 49-50 RAILROAD REQUIREMENTS FOR NON-BRIDGE CONSTRUCTION PROJECTS




DocuSigned by:  
**ccm31, P.E.**  
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 5/22/2024

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED BY # HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

**ccm31, P.E.** 5/22/2024  
 AF852E728AEC4C0... DATE  
 CHARLES M. BRAZIL, P.E.

 **ADDENDUM #1** 05/21/2024  
 ADDED SHEET 32A; TCP (2-4)-18

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		© 2024	
<b>INDEX OF SHEETS</b>			
CONT	SECT	JOB	HIGHWAY
0118	06	077, ETC.	BS 21P, ETC.
DIST	COUNTY		SHEET NO.
LFK	NACOGDOCHES		2

Blade the existing paved shoulders prior to planing operations to remove existing overgrowth. This work will be subsidiary to Item 354.

Cut the existing shoulder pavement to drain water away from planed travel lanes. This work will be subsidiary to various bid items.

Use an approved ski device to control longitudinal grade.

Contractor to remove all HMA from gutters. This work will be considered subsidiary to item 354.



Where the underlying flexible base is exposed during the planing operation, prime exposed area with asphalt at the rate directed and patch with an approved HMA material at the end of the day's operation in which it occurs. These items of work will not be paid for directly but will be subsidiary to Item 354.

**Item 502: Barricades, Signs, and Traffic Handling**

Traffic Control Plan (TCP):

Ensure the Contractor's Responsible Person (CRP) or their alternate for Barricades, Signs and Traffic Handling is available at all times and able to receive instructions from the Engineer or authorized Department representative. The CRP shall be a person that is usually at the project site during normal working hours.

For protection of the traveling public, direct traffic through the work area using signs, flaggers and other devices. Required signs are shown in the plans on the Barricade and Construction Standards and Traffic Control Plan Sheets. The latest edition of the "Texas Manual on Uniform Traffic Control Devices" shall also be used as a guide for handling traffic on this project.

Use "Do Not Pass" (R4-1) signs to mark the beginnings of roadway sections where passing is prohibited and use "Pass With Care" (R4-2) signs to mark the beginnings of roadway sections where passing is permitted. Install signs at the time signing for project limits are erected. Sign placement shall be verified and approved.

This project requires speed reduction signs during construction. Fabricate, provide and maintain speed limit signs (XX mph) as shown on the applicable BC standards. Remove or cover regulatory (black and white) speed limit signs, when not applicable. These signs are required for both lanes of travel on divided highways regardless of the location of work.

Furnishing, erecting, relocating and removing temporary speed zone signs is subsidiary to Item 502.

When pavement work begins, use flashing arrow panels and flaggers 24 hr. per day during inclement weather or as directed.

Install "No Center Line" (CW8-12) signs at 2-mile intervals. Install "Loose Gravel" (CW8-7) and "Next XX Miles" (CW7-3aP) signs as directed prior to the start of surface treatment operations.

Restrict construction work to single lane widths with only minor disruptions in traffic flow. Lane closures shall conform to the Traffic Control Plan for lane closures as shown in the plans.

No overnight closures will be permitted.

Limit lane closures for multilane roads (4 or more lanes) to 2 mi. in length, unless otherwise approved.

Limit lane closures for 2 lane roads to 1 mi. in length, unless otherwise approved.

Lane closure lengths can exclude the end tapers.

Plan the sequence of work to minimize the time lane closures are in place. Install lane closures only where construction operations are anticipated to start within 1 hr. and limited to the amount of lane that can be reached by the construction activity within 2 hr. unless otherwise approved.

Provide flashing arrow panels to supplement required signs and devices for lane closures.

Provide temporary rumble strips as shown on work zone rumble strip standards. Temporary rumble strips shall be a product listed on the Compliant Work Zone Traffic Control Devices and shall be a two-piece rumble strip that hinges in the middle.

Provide a pilot car to lead traffic through the work area. The pilot car will not be paid for directly, but will be subsidiary to various bid items.

Halt traffic during the time asphalt is being applied to the roadway. No vehicles will be allowed to pass the asphalt distributor during asphalt application.

Provide adequate flaggers to protect the traveling public when working on or near a roadway carrying traffic. All flaggers shall wear hardhats and reflective vests.

Install "Be Prepared to Stop" (CW3-4) and "Flagger Ahead" (CW20-7aD) signs when flaggers are present. Position the signs where good visibility and traffic control can be maintained.

Use a flashing arrow board in addition to the required signs to warn motorists of flaggers.

Use additional flaggers at roadway intersections to direct traffic entering the work area, when deemed necessary by the Engineer.

Open all traffic lanes to traffic at the close of work each day.

Provide one high-intensity yellow, rotating dome-light on all equipment such as distributors, spreader boxes, lay-down machines, dump trucks, rollers, backhoes, road graders, loaders, etc. within the work zone. Mount lights high enough to be visible from all directions and operating



# Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0118-06-077

DISTRICT Lufkin  
HIGHWAY BS 21P, BS 7N, BU 59F, FM 2259

COUNTY Nacogdoches

CONTROL SECTION JOB				0059-01-061		0118-06-077		0118-08-092		0118-08-093		0118-08-095		0175-08-048	
PROJECT ID				A00195872		A00195870		A00195871		A00195873		A00199099		A00195856	
COUNTY				Nacogdoches		Nacogdoches		Nacogdoches		Nacogdoches		Nacogdoches		Nacogdoches	
HIGHWAY				BS 7N		BS 21P		BS 21P		BS 7N		BS 21P		BU 59F	
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL	EST.	FINAL
	104-6022	REMOVING CONC (CURB AND GUTTER)	LF							20.000				230.000	
	134-6002	BACKFILL (TY B)	STA									36.900			
	351-6008	FLEXIBLE PAVEMENT STRUCTURE REPAIR(12")	SY	20.000				40.000		60.000				100.000	
	354-6045	PLANE ASPH CONC PAV (2")	SY	20,480.000		40,576.000		19,023.000		29,263.000		13,151.000		66,147.000	
	479-6001	ADJUSTING MANHOLES	EA	10.000		20.000		11.000		6.000		10.000		56.000	
	479-6002	ADJUSTING INLETS	EA					2.000						3.000	
	479-6005	ADJUSTING MANHOLES (WATER VALVE BOX)	EA	7.000		8.000		11.000		15.000		4.000		79.000	
	500-6001	MOBILIZATION	LS	0.125		0.125		0.125		0.125		0.125		0.125	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO			20.000									
	529-6008	CONC CURB & GUTTER (TY II)	LF							20.000				230.000	
	662-6067	WK ZN PAV MRK REMOV (W)6"(SLD)	LF	640.000		2,790.000		1,820.000		2,530.000		1,130.000		8,290.000	
	662-6098	WK ZN PAV MRK REMOV (Y)6"(SLD)	LF	1,415.000		2,511.000		1,783.000		2,400.000		2,911.000		8,296.000	
	666-6035	REFL PAV MRK TY I (W)8"(SLD)(090MIL)	LF	342.000		27.000		842.000		366.000		154.000		1,397.000	
	666-6305	RE PM W/RET REQ TY I (W)6"(BRK)(090MIL)	LF	640.000		2,790.000		1,802.000		2,530.000		1,130.000		8,290.000	
	666-6308	RE PM W/RET REQ TY I (W)6"(SLD)(090MIL)	LF	3,639.000		10,713.000		7,831.000		9,352.000		11,389.000		12,761.000	
	666-6317	RE PM W/RET REQ TY I (Y)6"(BRK)(090MIL)	LF											6,940.000	
	666-6320	RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL)	LF	6,288.000		11,159.000		7,924.000		10,666.000		12,936.000		33,399.000	
	668-6075	PREFAB PAV MRK TY C (W) (18") (SLD)	LF												
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	12.000				242.000		300.000				1,792.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	1.000				1.000		4.000		2.000		14.000	
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	1.000				1.000		4.000		2.000		11.000	
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA					4.000							
	672-6007	REFL PAV MRKR TY I-C	EA	52.000		140.000		96.000		158.000		57.000		1,657.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	51.000		31.000		200.000		212.000		1,282.000		1,718.000	
	677-6006	ELIM EXT PAV MRK & MRKS (18")	LF												
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	12.000				242.000		300.000				1,792.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	1.000				1.000		4.000		2.000		14.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	1.000				1.000		4.000		2.000		11.000	
	677-6016	ELIM EXT PAV MRK & MRKS (RR XING)	EA					4.000							
	3077-6011	SP MIXES SP-C PG64-22	TON											7,277.000	
	3077-6022	SP MIXES SP-C SAC-A PG70-22	TON	2,253.000		4,463.000		2,093.000		3,219.000		3,396.000			
	3081-6007	TOM-C PG76-22 SAC-A	TON											4,729.000	
	3084-6001	BONDING COURSE	GAL	1,024.000		2,029.000		951.000		1,463.000		1,544.000		8,885.000	
	6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA			2.000									
	6185-6002	TMA (STATIONARY)	DAY			197.000									
	6185-6005	TMA (MOBILE OPERATION)	DAY			34.000									
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS			1.000									

**ADDENDUM #1**  
**REVISED 502-6001**  
**& 3081-6007**  
**QUANTITIES**  
  
5/21/2024



DISTRICT	COUNTY	CCSJ	SHEET
Lufkin	Nacogdoches	0118-06-077	15



# Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0118-06-077

DISTRICT Lufkin  
HIGHWAY BS 21P, BS 7N, BU 59F, FM 2259

COUNTY Nacogdoches

CONTROL SECTION JOB				0176-01-117		2116-01-025		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00199098		A00195858			
COUNTY				Nacogdoches		Nacogdoches			
HIGHWAY				BU 59F		FM 2259			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	104-6022	REMOVING CONC (CURB AND GUTTER)	LF	80.000				330.000	
	134-6002	BACKFILL (TY B)	STA					36.900	
	351-6008	FLEXIBLE PAVEMENT STRUCTURE REPAIR(12")	SY	40.000		20.000		280.000	
	354-6045	PLANE ASPH CONC PAV (2")	SY	55,295.000		33,631.000		277,566.000	
	479-6001	ADJUSTING MANHOLES	EA	21.000		30.000		164.000	
	479-6002	ADJUSTING INLETS	EA	3.000		7.000		15.000	
	479-6005	ADJUSTING MANHOLES (WATER VALVE BOX)	EA	15.000		28.000		167.000	
	500-6001	MOBILIZATION	LS	0.125		0.125		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO					20.000	1
	529-6008	CONC CURB & GUTTER (TY II)	LF	80.000				330.000	
	662-6067	WK ZN PAV MRK REMOV (W)6"(SLD)	LF	4,600.000				21,800.000	
	662-6098	WK ZN PAV MRK REMOV (Y)6"(SLD)	LF	4,738.000		4,136.000		28,190.000	
	666-6035	REFL PAV MRK TY I (W)8"(SLD)(090MIL)	LF	379.000				3,507.000	
	666-6305	RE PM W/RET REQ TY I (W)6"(BRK)(090MIL)	LF	4,600.000				21,782.000	
	666-6308	RE PM W/RET REQ TY I (W)6"(SLD)(090MIL)	LF	7,736.000		11,029.000		74,450.000	
	666-6317	RE PM W/RET REQ TY I (Y)6"(BRK)(090MIL)	LF	3,740.000				10,680.000	
	666-6320	RE PM W/RET REQ TY I (Y)6"(SLD)(090MIL)	LF	19,187.000		18,380.000		119,939.000	
	668-6075	PREFAB PAV MRK TY C (W) (18") (SLD)	LF	102.000				102.000	
	668-6076	PREFAB PAV MRK TY C (W) (24") (SLD)	LF	478.000		188.000		3,012.000	
	668-6077	PREFAB PAV MRK TY C (W) (ARROW)	EA	6.000				28.000	
	668-6085	PREFAB PAV MRK TY C (W) (WORD)	EA	5.000				24.000	
	668-6089	PREFAB PAV MRK TY C (W) (RR XING)	EA					4.000	
	672-6007	REFL PAV MRKR TY I-C	EA	274.000				2,434.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA	633.000		242.000		4,369.000	
	677-6006	ELIM EXT PAV MRK & MRKS (18")	LF	102.000				102.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	478.000		188.000		3,012.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	6.000				28.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	5.000				24.000	
	677-6016	ELIM EXT PAV MRK & MRKS (RR XING)	EA					4.000	
	3077-6011	SP MIXES SP-C PG64-22	TON					7,277.000	
	3077-6022	SP MIXES SP-C SAC-A PG70-22	TON	6,084.000		3,700.000		25,208.000	
	3081-6007	TOM-C PG76-22 SAC-A	TON					4,729.000	1
	3084-6001	BONDING COURSE	GAL	2,764.000		1,681.000		20,341.000	
	6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA					2.000	
	6185-6002	TMA (STATIONARY)	DAY					197.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY					34.000	
	18	EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS					1.000	

1 ADDENDUM #1  
REVISED 502-6001  
& 3081-6007  
QUANTITIES  
5/21/2024



DISTRICT	COUNTY	CCSJ	SHEET
Lufkin	Nacogdoches	0118-06-077	15B

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**SUMMARY OF ROADWAY ITEMS**

PROJECT REF NO.	LIMITS		LENGTH	AVG WIDTH	AREA	BACKFILL (TY B)	BROADCAST SEED (PERM) (RURAL) (SANDY)	VEGETATIVE WATERING	(1) PLANE ASPH CONC PAV (2")	BONDING COURSE	SP MIXES SP-C PG64-22	BONDING COURSE	SP MIXES SP-C PG70-22 SAC-A	BONDING COURSE	TOM-C PG76-22 SAC-A	PORTABLE CHANGEABLE MESSAGE SIGN (3)							
																	(10 GAL/SY/2 APPS)	(0.05 GAL/SY)	(220 LBS/SY)	(0.05 GAL/SY)	(220 LBS/SY)	(0.05 GAL/SY)	(84.75 LBS/SY)
																	STATION	TO	STATION	FT	FT	SY	STA
<b>CSJ: 0118-08-092 (NACOGDOCHES COUNTY) (BS 21P)</b>																							
1	0+26.50	TO	14+42.50	1418.20	40	6304			6304				315	693									
	14+42.50	TO	16+83.40	240.90	44	1178			1178				59	130									
	16+83.40	TO	40+44.00	2360.60	44	11541			11541				577	1270									
	<b>CSJ: 0118-08-092 TOTALS</b>						<b>0</b>			<b>19023</b>	<b>0</b>	<b>0</b>	<b>951</b>	<b>2093</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>CSJ: 0118-06-077 (NACOGDOCHES COUNTY) (BS 21P)</b>																							
2	40+44.00	TO	97+50.00	5706.00	64	40576			40576				2029	4463		2							
	<b>CSJ: 0118-06-077 TOTALS</b>						<b>0</b>			<b>40576</b>	<b>0</b>	<b>0</b>	<b>2029</b>	<b>4463</b>	<b>0</b>	<b>0</b>	<b>2</b>						
<b>CSJ: 0118-08-093 (NACOGDOCHES COUNTY) (BS 7N)</b>																							
3	0+10.00	TO	34+00.00	3390.00	44	16574			16574				829	1823									
	34+00.00	TO	35+00.00	100.00	54	600			600				30	66									
	35+00.00	TO	52+00.00	1700.00	64	12089			12089				604	1330									
	<b>CSJ: 0118-08-093 TOTALS</b>						<b>0</b>			<b>29263</b>	<b>0</b>	<b>0</b>	<b>1463</b>	<b>3219</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>CSJ: 0118-08-095 (NACOGDOCHES COUNTY) (BS 21P)</b>																							
4	52+00.00	TO	54+00.00	200.00	64	1423			1423				71	157									
	54+00.00	TO	70+35.10	1635.10	44	7994			7994				400	879									
	38+08.80	TO	64+00.00	2591.20	42	12093	25.9	3455	69.1				605	1330									
	64+00.00	TO	75+00.00	1100.00	46	5623	11.0	1467	29.3				281	619									
	75+00.00	TO	82+00.00	700.00	48	3734			3734				187	411									
<b>CSJ: 0118-08-095 TOTALS</b>						<b>36.9</b>	<b>4922</b>	<b>98.4</b>	<b>13151</b>	<b>0</b>	<b>0</b>	<b>1544</b>	<b>3396</b>	<b>0</b>	<b>0</b>	<b>0</b>							
<b>CSJ: 0059-01-061 (NACOGDOCHES COUNTY) (BS 7N)</b>																							
5	65+80.00	TO	94+60.00	2880.00	64	20480			20480				1024	2253	0	0							
	<b>CSJ: 0059-01-061 TOTALS</b>						<b>0</b>			<b>20480</b>	<b>0</b>	<b>0</b>	<b>1024</b>	<b>2253</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>CSJ: 2116-01-025 (NACOGDOCHES COUNTY) (FM 2259)</b>																							
6	500+15.00	TO	532+15.00	3200.00	22	7823			7823				391	861									
	532+15.00	TO	550+77.00	1862.00	36	7448			7448				372	819									
	0+01.78	TO	43+50.00	4348.22	38	18360			18360				918	2020									
	<b>CSJ: 2116-01-025 TOTALS</b>						<b>0</b>			<b>33631</b>	<b>0</b>	<b>0</b>	<b>1681</b>	<b>3700</b>	<b>0</b>	<b>0</b>	<b>0</b>						
<b>CSJ: 0176-01-117 (NACOGDOCHES COUNTY) (BU 59F)</b>																							
7	929+00.00	TO	970+72.70	4172.70	51	23646			23646				1182	2601									
	0+00.00	TO	38+00.00	3800.00	51	21534			21534				1077	2369									
	38+00.00	TO	44+68.54	668.54	56	4160			4160				208	458									
	54+60.21	TO	56+50.00	189.79	61	1287			1287				64	142									
	56+50.00	TO	57+50.00	100.00	56	623			623				31	69									
	57+50.00	TO	64+50.00	700.00	52	4045			4045				202	445									
<b>CSJ: 0176-01-117 TOTALS</b>						<b>0</b>			<b>55295</b>	<b>0</b>	<b>0</b>	<b>2764</b>	<b>6084</b>	<b>0</b>	<b>0</b>	<b>0</b>							
<b>CSJ: 0175-08-048 (NACOGDOCHES COUNTY) (BU 59F)</b>																							
8	64+50.00	TO	79+90.00	1540.00	51	8727								436	370								
	79+90.00	TO	160+30.00	8040.00	51	45560			45560	2278	5012			2278	1931								
	160+30.00	TO	169+78.82	948.82	51	5377								269	228								
	0+00.00	TO	20+30.00	2030.00	64	14436								722	612								
	20+30.00	TO	49+25.00	2895.00	64	20587			20587	1029	2265			1029	872								
	49+25.00	TO	73+00.00	2375.00	64	16889								844	716								
<b>CSJ: 0175-08-048 TOTALS</b>						<b>0</b>			<b>66147</b>	<b>3307</b>	<b>7277</b>	<b>0</b>	<b>0</b>	<b>5578</b>	<b>4729</b>	<b>0</b>							
<b>PROJECT TOTALS</b>						<b>37</b>	<b>4922</b>	<b>98</b>	<b>277566</b>	<b>3307</b>	<b>7277</b>	<b>11456</b>	<b>25208</b>	<b>5578</b>	<b>4729</b>	<b>2</b>							

EQUATION NOTES:  
 CSJ: 0118-08-092  
 STA 9+78.80 BK = STA 9+76.60 FWD = 2.20 FT  
 CSJ: 0118-08-095  
 STA 70+35.10 BK = STA 38+08.80 FWD = 3,226.30 FT  
 CSJ: 2116-01-025  
 STA 550+77.00 BK = STA 0+01.78 FWD = 55,075.22 FT  
 CSJ: 0175-08-048  
 STA 169+78.82 BK = STA 0+00.00 FWD = 16,978.82 FT  
 CSJ: 0176-01-117  
 STA 970+72.70 BK = STA 0+00.00 FWD = 97,072.70 FT

ADDENDUM #1, TOM-C RATE 84.75 LBS/SY WAS 220 LBS/SY 5/21/24

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**Texas Department of Transportation**

## QUANTITY SUMMARIES

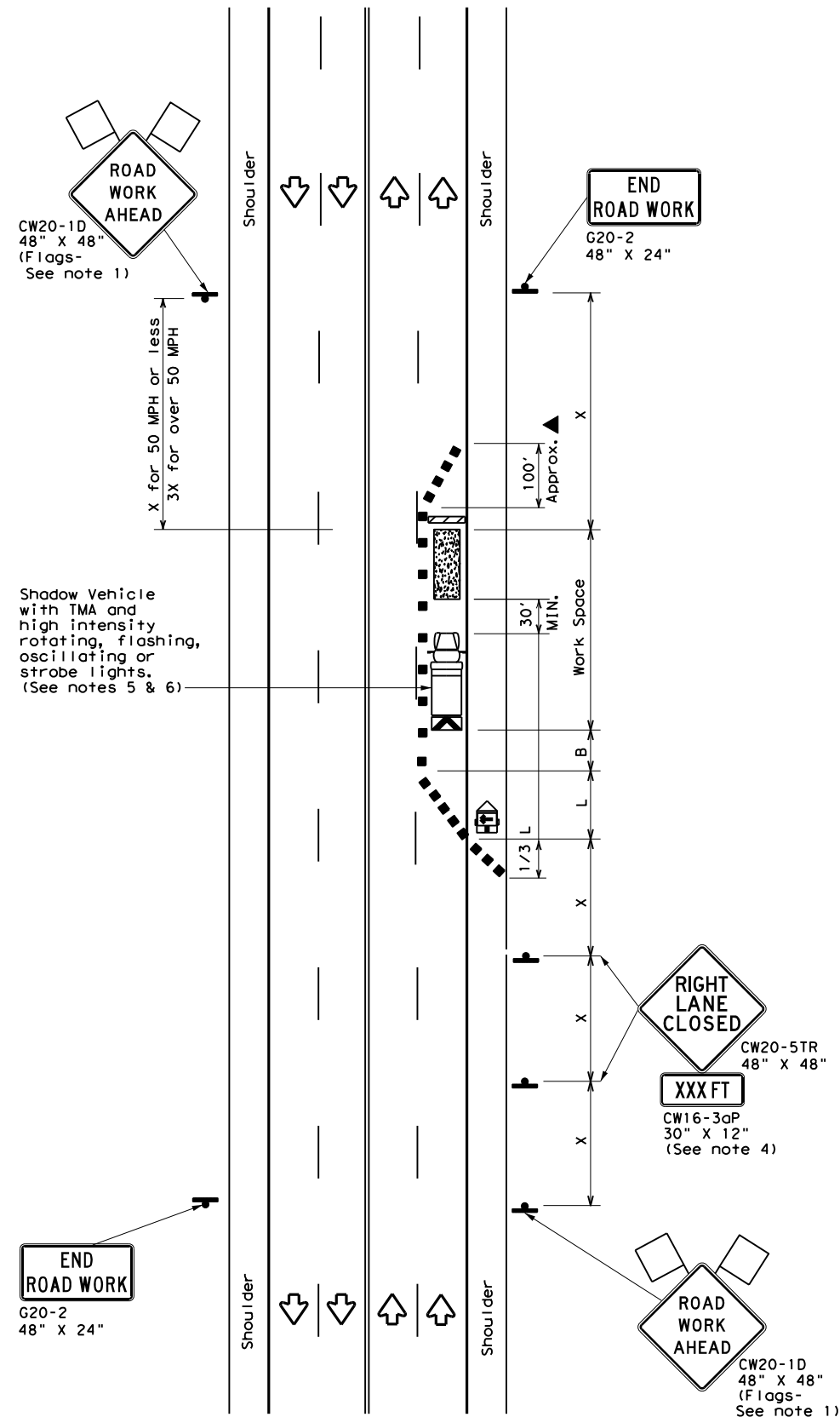
SHEET 1 OF 3

CONT	SECT	JOB	HIGHWAY
0118	06	077, ETC.	BS 21P, ETC.
DIST	COUNTY	SHEET NO.	
LFK	NACOGDOCHES	16	

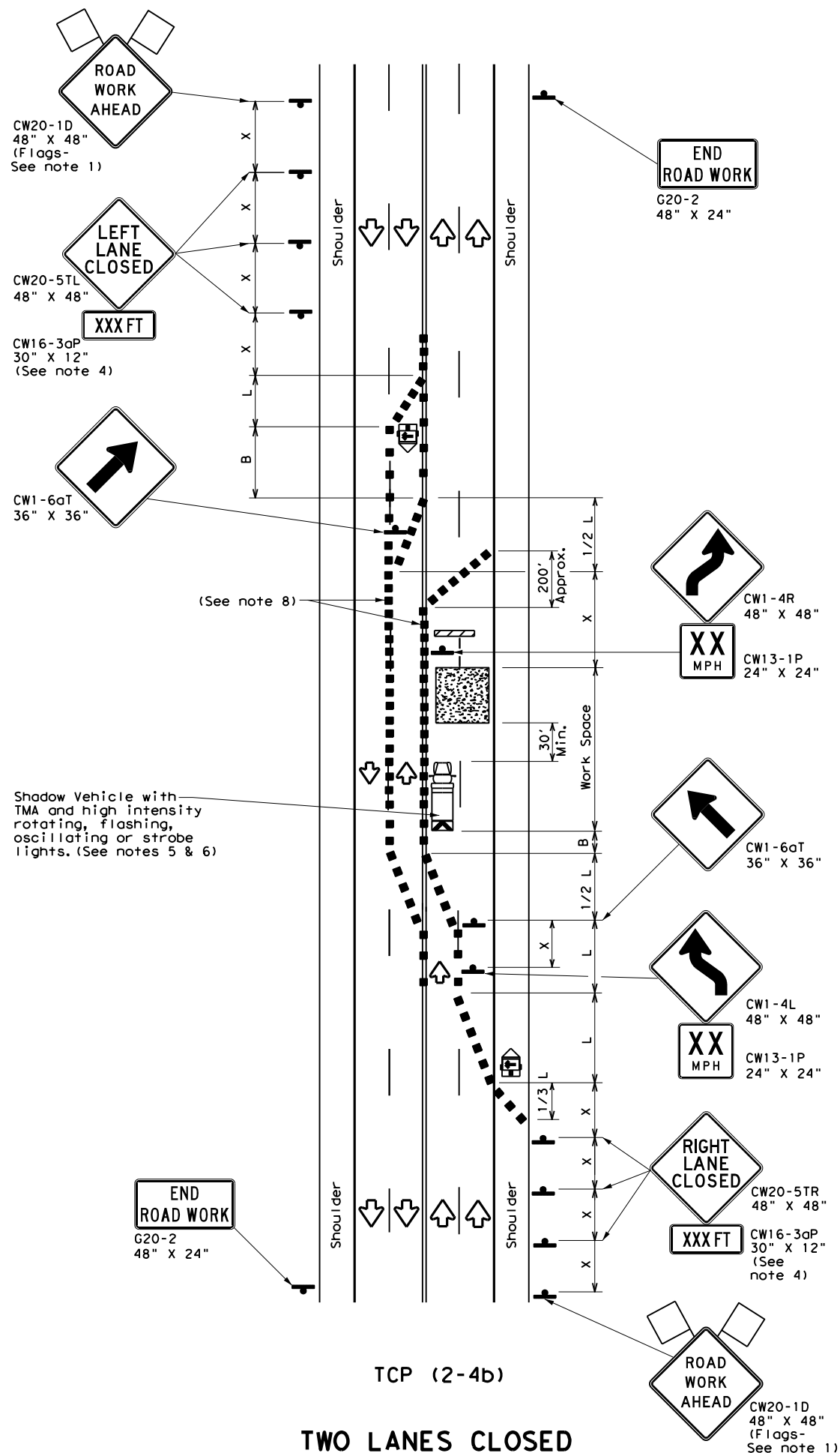
(1) PLANE ONLY WHAT CAN BE REPLACED IN ONE DAYS PRODUCTION (3) USE ON ALL RAILROADS AS DIRECTED BY ENGINEER (5) SUBSIDIARY TO ITEM 134  
 (2) USE AS DIRECTED BY ENGINEER (4) APPLY FERTILIZER ON PERMANENT SEEDING AS DIRECTED TONS = RATE\*(SGA)\*SY  
 2000

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DATE: 5/22/2024 10:20:00 AM  
 FILE: c:\txdot\pw\_online\txdot3\andrew.corbett\d0818904\tcp2-4-18.dgn



TCP (2-4a)  
**ONE LANE CLOSED**



TCP (2-4b)  
**TWO LANES CLOSED**

LEGEND			
	Type 3 Barricade		Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Portable Changeable Message Sign (PCMS)
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed *	Formula	Minimum Desirable Taper Lengths **			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "x" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	L = WS <sup>2</sup> / 60	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L = WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

\* Conventional Roads Only  
 \*\* Taper lengths have been rounded off.  
 L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
		✓	✓	

- GENERAL NOTES**
- Flags attached to signs where shown, are REQUIRED.
  - All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
  - The downstream taper is optional. When used, it should be 100 feet minimum length per lane.
  - For short term applications, when post mounted signs are not used, the distance legend may be shown on the sign face rather than on a CW16-3aP supplemental plaque.
  - A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
  - Additional Shadow Vehicles with TMAs may be positioned in each closed lane, on the shoulder or off the paved surface, next to those shown in order to protect a wider work space.
- TCP (2-4a)**
- If this TCP is used for a left lane closure, CW20-5TL "LEFT LANE CLOSED" signs shall be used and channelizing devices shall be placed on the centerline to protect the work space from opposing traffic with the arrow board placed in the closed lane near the end of the merging taper.
- TCP (2-4b)**
- For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter devices spacing is intended for the area of conflicting markings, not the entire work zone.

		Traffic Operations Division Standard	
<b>TRAFFIC CONTROL PLAN</b>			
<b>LANE CLOSURES ON MULTILANE CONVENTIONAL ROADS</b>			
<b>TCP (2-4) - 18</b>			
FILE: tcp2-4-18.dgn	DN:	CK:	DW:
© TxDOT December 1985	CONT	SECT	JOB
REVISIONS	0118	06	077, ETC.BS 21P, ETC.
8-95 3-03	DIST	COUNTY	SHEET NO.
1-97 2-12	LFK	NACOGDOCHES	32A
4-98 2-18			

ADDENDUM #1  
 SHEET ADDED.  
 5/21/2024