



CITY OF LIBERTY PUBLIC WORKS

2024 CITY OF LIBERTY FIRE HYDRANT REPLACEMENT PROJECT

BID NO. 2023-13

ADDENDUM NUMBER 1

DATE: JANUARY 8, 2024

GENERAL

The following changes, additions, or deletions shall be made to the following documents as indicated and all other conditions shall remain the same:

1. BID SCHEDULE

- Remove Bid Schedule sheet (12) and replace with sheet (12) marked Addendum no. 1, see attached.

2. GENERAL NOTES

- Remove sheet (84) and Replace with sheets (84) marked Addendum No. 1, see attachment.
- Remove sheet (85) and Replace with sheets (85) marked Addendum No. 1, see attachment.

3. EXHIBIT A

- Remove Exhibit sheet (89) and Replace with sheets (89) marked Addendum No. 1, see attachment.
- Add TCP sheets (1-1-18), (1-2-18), (1-3-18), (1-4-18), (1-5-18), (1-6-18) and (WZ(RS)-22) SEE sheet marked Addendum No. 1, see attachments.

SUBMITTED QUESTIONS

- **WHAT ARE THE DEPTHS OF THE WATER AND EXACT LOCATIONS OF WATER MAINS?**
ANSWER: THE CITY DOES NOT HAVE EXACT LOCATIONS OF THE WATER MAINS, OUR MAPPING IS APPROXIMATE. ON SHEET 89 WE IDENTIFIED WHETHER THE MAIN IN IN THE ROADWAY.
- **WE'VE NOTICED ON THE BID FORM THERE ISN'T A LINE ITEM REPLACING THE CONCRETE/ASPHALT IN THE ROADS.**
ANSWER: THE CONCRETE AND ASPHALT RESTORATION WILL BE SUBSIDIDARY TO VARIOUS BID ITEMS AND WILL NOT BE PAID SEPARATELY. SHEET 89 MARKED "ADDENDEM NO.1" .
- **DO WE NEED TO DO ANY CMT TESTING FOR THE MATERIAL USED FOR THE SCOPE OF WORK?**
ANSWER: A DESIGN NEEDS TO BE SUBMITTED FOR THE PROPOSED ASPHALT AND CONCRETE PRIOR TO REPAIRS. TESTING WILL ONLY BE REQUIRED AT THE CONTRACTOR'S EXPENSE IF THERE ARE ISSUES WITH THE MATERIAL'S PREFORMANCE.

Section 0210
BID SCHEDULE
 For construction of: 2024 CITY OF LIBERTY FIRE HYDRANT REPLACEMENT PROJECT
 For the City of Liberty, Texas

ITEM NO.	ITEM CODE	ALT	DESCRIPTION	ESTIMATED QUANTITIES	UNIT	UNIT PRICE	UNIT PRICE (WRITTEN)	TOTAL
			TOTAL BID					
1			COMPLETE REMOVAL: FIRE HYDRANT ASSEMBLY	20	EA		And /100 Dollars	
2			COMPLETE VALVE INSTALLATION: 6" VALVE HOT ON MAIN	9	EA		And /100 Dollars	
3			COMPLETE INSTALLATION: 8" VALVE HOT ON MAIN	2	EA		And /100 Dollars	
4			COMPLETE INSTALLATION: 12" VALVE HOT ON MAIN	4	EA		And /100 Dollars	
5			COMPLETE INSTALLATION AND REMOVAL: 6" LINE STOP	13	EA		And /100 Dollars	
5			COMPLETE INSTALLATION AND REMOVAL: 8" LINE STOP	3	EA		And /100 Dollars	
5			COMPLETE INSTALLATION AND REMOVAL 12" LINE STOP	6	EA		And /100 Dollars	
6			COMPLETE INSTALLATION: FIRE HYDRANT ASSEMBLY W/6"VALVE	21	EA		And /100 Dollars	
7			MOBILIZATION / DEMOBILIZATION (NOT TO EXCEED 5%)	1	LS		And /100 Dollars	
8			BARRICADES, TRAFFIC CONTROL AND SIGNS	4	MON		And /100 Dollars	

16. If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to the City. If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.
17. Material on hand will not be paid for.
18. **Prior to final acceptance, all fire hydrants shall be tested for pressure and flow.**
19. Move existing signs, mailboxes, delineators and any other similar obstructions that interfere with construction to temporary locations approved by the engineer. Move them back to their permanent positions when the work progresses to the point where this is possible. Place the sign post back in accordance with the applicable standard. This will not be paid for directly and will be considered subsidiary to various bid items.
20. Maintain adequate drainage throughout the limits of the project during all construction phases.
21. **Verify all locations for proposed.**
22. **Concrete shall be 3,000 psi and asphalt shall be type "D" asphalt or approved high performance cold mix.**
23. The Contractor will establish the project control point, points, or tangency, PI's (points of intersection), point of curvature (PC, PI, and PT) and bench marks at the beginning and end of the project on the plan view only. Contractor shall establish and maintain these points throughout construction. There will be no separate payment for this work, but it shall be considered subsidiary to various bid items.
24. **Schedule work so that the street restoration work is performed safely, to reduce the hazard to the traveling public and to prevent undue delay caused by wet weather.**
25. The Contractor shall schedule each work day so the roadway is compacted and open to traffic.
26. When design details are not shown on the traffic control plans, provide signs and arrows conforming to the latest "Standard Highway Sign Designs for Texas" manual.
27. All materials, labor and incidentals required for the contractor to provide for traffic across the streets and for temporary ingress and egress to private property shall be furnished by the contractor at no additional cost to the city and shall be considered as incidental to the various bid items in this project.
28. Contractor must keep working equipment readily available throughout the contract. Each street must be open to traffic at the end of each day. Streets shall not be closed over-night unless approved by the Public Works Director.
29. Any saw-cutting required for the project shall not be paid for directly but shall be considered subsidiary to various bid items.

30. The Contractor will notify the Engineer 48 hours in advance of completed work per site. The Engineer will inspect each site and submit a punch list per location to the Contractor as necessary. If work needs to be done after the inspection, the contractor will not be paid for re-mobilization.
31. **The restoration of concrete and asphalt shall not be paid separate and will be considered subsidiary to various bid items.**

2. ITEM 5: CONTROL OF WORK

1. Station the project prior to commencing work. Mark the stations every 100 feet. Contractor shall maintain stationing throughout the duration of the project. Remove the station markings at the completion of the project. Consider this work to be subsidiary to the various bid items of the contract.

3. ITEM 7: LEGAL RELATIONS AND RESPONSIBILITIES

1. Furnish all materials, labor and incidentals required to provide for traffic across the street and for temporary ingress and egress to private property in accordance with article 7.7 of the standard specifications at no additional cost to the City. Consider this work to be subsidiary to the various bid items of the contract.
2. Maintain the roadway slope stability. Temporary retaining structures or shoring may be required. Before installing any proposed temporary retaining structures or shoring, secure written approval. Submit design calculations, working drawings and a plan of operations including sequencing. Maintaining slope stability is subsidiary to the various bid items.

4. ITEM 8: PROSECUTION AND PROGRESS

1. Compute and charge working days in accordance with Article 8.3.1.3 Monday thru Sunday Work Week. However, there will be no work performed on Saturday or Sunday and the work day time is 7am to 6pm.
2. Gather information and direct attention to the aspects of adjoining projects that may be in the progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects so as not to interfere with, or hinder the completion of the work in progress on the adjoining projects. Coordinate projects to ensure an uninterrupted flow of traffic.

5. ITEM 9: MEASUREMENT AND PAYMENT

1. The Contractor shall submit all tickets, As-Built drawings and updated schedule with each payrequest.
2. The City will withhold a 5% retainage from each pay request.

ITEM 9001

GATE VALVE INSTALLATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Installation of 6", 8" or 12" EZ-Valve (installed on a hot waterline) or approved equal on an existing water main. Valves for fire hydrant assembly will be specified in the fire hydrant detail (Exhibit "A")

EXHIBIT "A"

LIST OF FIRE HYDRANTS FOR REPLACEMENT

NO.	LOCATION	LEAKING	MAIN SIZE	EXISTING CONDITION	WATER MAIN LOCATION	PROPOSED WORK	
						LINE STOP	EZ VALVE
1	700 FM 563	NO	6"	NO VALVE, LEANING BAD	AC PIPE; NOT IN STREET	1 - 6" LS	1 - 6" VALVE
2	1611 FM 563	NO	8"	HAS A VALVE IS A KENNEDY HYDRANT	AC PIPE; NOT IN STREET	1 - 8" LS	-
3	500 FM 563	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; NOT IN STREET	1 - 6" LS	1 - 6" VALVE
4	COS & FANNIN	NO	8"	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (CONCRETE)	1 - 8" LS	1 - 8" VALVE
5	3323 BEAUMONT	NO	12"	NO VALVE, BROKEN STEM	AC PIPE; EDGE OF THE STREET (ASPHALT)	1 - 12" LS	1 - 12" VALVE
6	1707 TWIN OAKS	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; NOT IN STREET	1 - 6" LS	-
7	4500 NORTH MAIN	NO	12"	NO VALVE, LEANING BAD	AC PIPE; NOT IN STREET	1 - 12" LS	1 - 12" VALVE
8	2700 CORNELL	NO	6"	HAS A VALVE IS A KENNEDY HYDRANT	AC PIPE; IN THE STREET (ASPHALT)	1 - 6" LS	-
9	WEBSTER & MAIN	NO	6"	NO VALVE, HYDRANT WILL NOT OPEN	AC PIPE; IN THE STREET (CONCRETE)	1 - 6" LS	1 - 6" VALVE
10	MIZELL RD	NO	6"	NO VALVE, HIT BY VEHICLE	AC PIPE; IN THE STREET (ASPHALT)	1 - 6" LS	1 - 6" VALVE
11	4402 MAIN ST	NO	12"	NO VALVE, HIT BY VEHICLE	AC PIPE; NOT IN STREET	1 - 12" LS	1 - 12" VALVE
12	WOODSPRINGS & BYPASS	NO	12	NO VALVE, HIT BY VEHICLE	AC PIPE; NOT IN STREET	1 - 12" LS	1 - 12" VALVE
13	MILAM & COS	NO	8"	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (CONCRETE)	1 - 8" LS	1 - 8" VALVE
14	1000 MLK	NO	12	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (CONCRETE)	1 - 6" LS	-
15	LAYL & AVENUE D	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; EDGE OF THE STREET (ASPHALT)	1 - 6" LS	1 - 6" VALVE
16	LAYL & LONE OAK	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (CONCRETE)	1 - 6" LS	1 - 6" VALVE
17	3446 NORTH MAIN ST	NO	6"	HAS VALVE	AC PIPE; NOT IN STREET	1 - 6" LS	-
18	KENTUCKY & GRAND	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (CONCRETE)	1 - 6" LS	1 - 6" VALVE
19	1900 KIPLING	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (ASPHALT)	1 - 6" LS	1 - 6" VALVE
20	HOLLY & HAWTHORNE	NO	6"	NO VALVE, BROKEN STEM	AC PIPE; IN THE STREET (ASPHALT)	1 - 6" LS	1 - 6" VALVE
21	WOODSPRINGS 2000' WEST OF BYPASS	NO	12"	NO VALVE, BROKEN STEM	PVC; NOT IN STREET	2 - 12" LS	

*** INFORMATION IN TABLE ARE ESTIMATED LOCATIONS AND CONDITIONS. FIELD VERIFICATION IS REQUIRED

EXHIBIT "A"

FIRE HYDRANT DETAIL

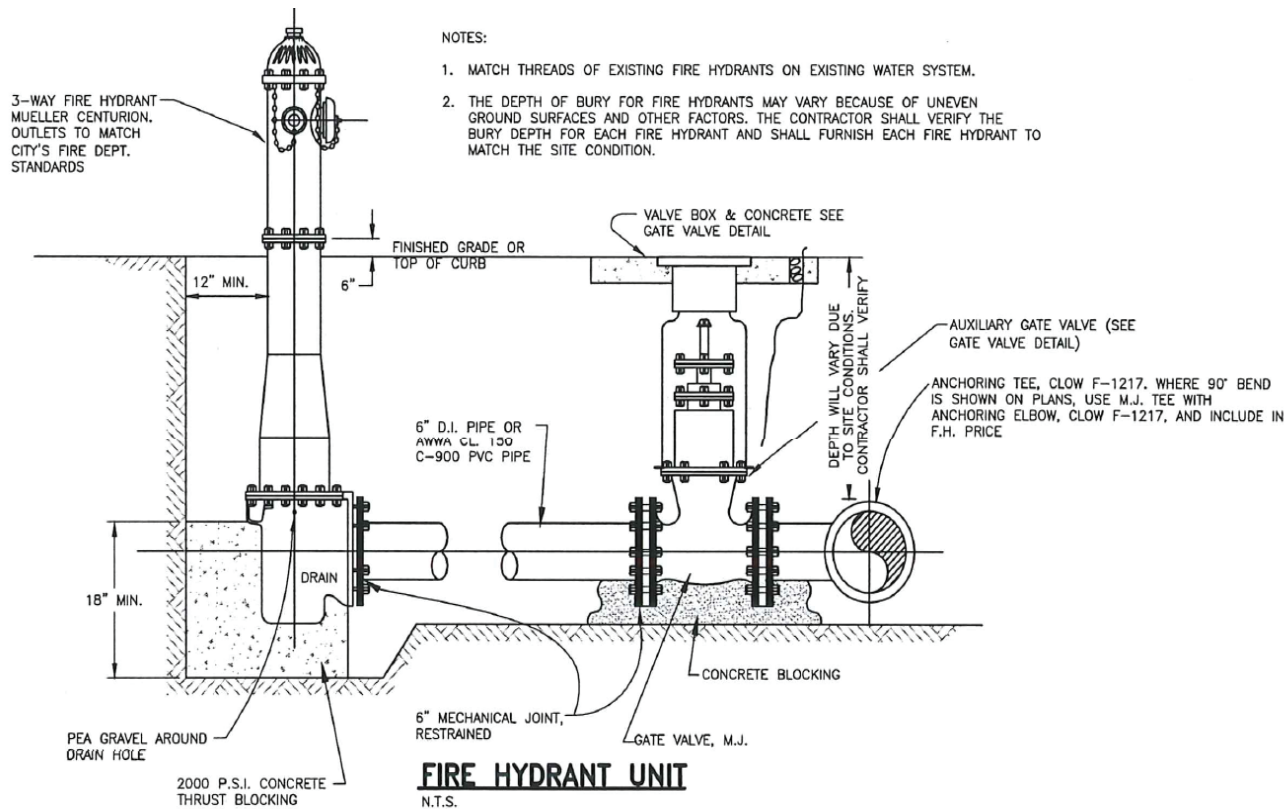
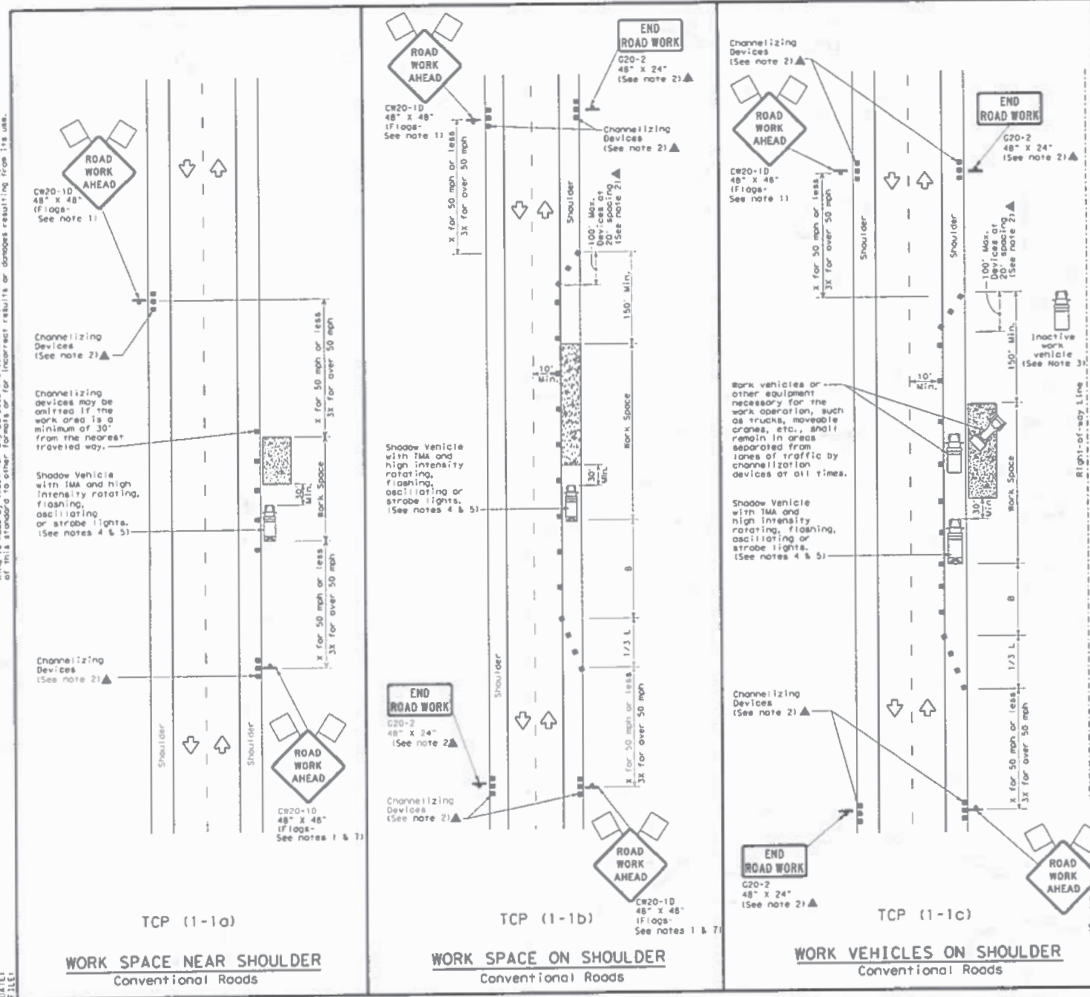


EXHIBIT "A"

****USE MUELLER FIRE HYDRANT OR APPROVED EQUAL**

DISCLAIMER: This standard is governed by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any use of these plans other than for the project and location for which they were prepared. TxDOT is not responsible for any errors or omissions in these plans or for any consequences resulting from their use.

DATE: 1/1/01



LEGEND

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

Posted Speed	Formula	Minimum Desirable Taper Lengths ft.	Suggested Maximum Spacing of Channelizing Devices ft.	Minimum Spacing of Channelizing Devices ft.	Suggested Length of Buffer ft.
30	L = 1.5S	10' 11' 12'	On a Taper	60'	120'
35		150' 165' 180'	30'	70'	160'
40		205' 225' 245'	40'	80'	240'
45		265' 295' 320'	45'	90'	320'
50	L = WS	450' 495' 540'	50'	100'	400'
55		500' 550' 600'	55'	110'	500'
60		600' 660' 720'	60'	120'	600'
65		650' 715' 780'	65'	130'	700'
70		700' 770' 840'	70'	140'	800'
75		750' 825' 900'	75'	150'	900'

* Conventional Roads Only
 W: Work Vehicle Length
 S: Taper Length
 L: Length of Taper (ft.)
 W: Width of Taper (ft.)
 S: Posted Speed

TYPICAL USAGE

MOBILE	SHORT DURATION	INTERMEDIATE DURATION	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 stored elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
 - Inactive work vehicles or other equipment should be parked near the right-of-way line and not parked on the paved shoulder.
 - 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 longer present but road or work conditions require the traffic 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 off the paved surface, next to those shown in order to protect other work spaces.
 - See TCEIS-1 for shoulder work on divided highways, expressways and freeways.
 - CEIS-15 SHOULDER WORK signs may be used in place of CEIS-10 ROAD WORK AHEAD signs for shoulder work on conventional roadways.

Texas Department of Transportation

TRAFFIC CONTROL PLAN
CONVENTIONAL ROAD
SHOULDER WORK

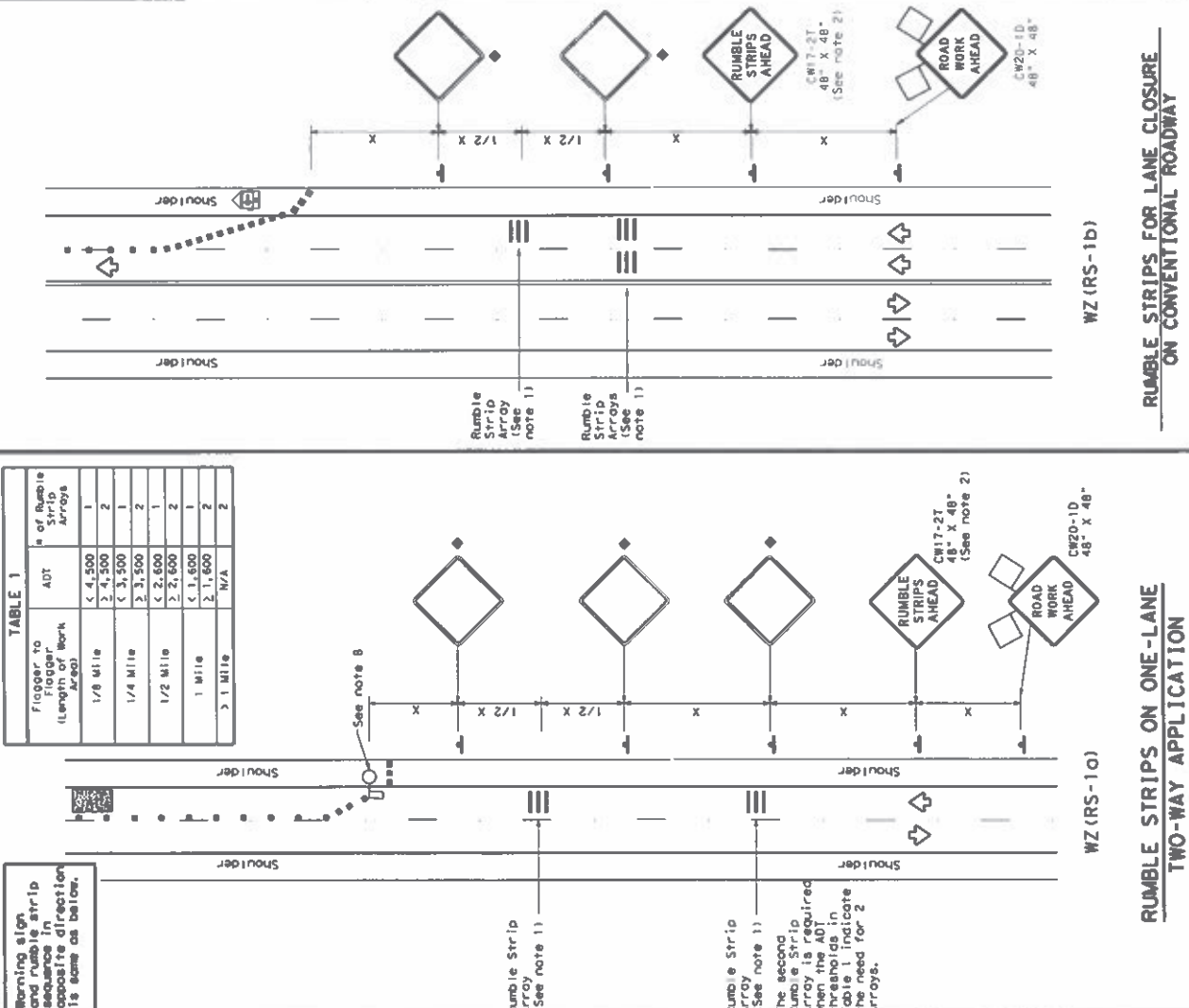
TCP (1-1)-18

FILE: TCP(1-1)-18.gpj	DATE: 1/1/01	DESIGNER: 1585	CHECK: 1585
2-94 4-98	REVISIONS	DATE	BY
0-95 2-12			
1-97 2-18			

Warning sign and rumble strip sequence in opposite direction is same as below.

TABLE 1

Flagger's No. (Length of Work Area)	ADT	# of Rumble Strips in Array
1/8 Mile	< 4,500	1
1/8 Mile	2,4,500	2
1/4 Mile	< 3,500	1
1/4 Mile	2,3,500	2
1/2 Mile	< 2,600	1
1/2 Mile	2,2,600	2
1 Mile	< 1,600	1
> 1 Mile	2,1,600	2
	N/A	2



GENERAL NOTES

- Each Rumble Strip Array should consist of three rumble strips spaced center to center at the spacing shown in Table 2, placed transverse across the lane at locations shown.
- The CW17-2T "RUMBLE STRIPS AHEAD" sign should be located after the CW20-1D "ROAD WORK AHEAD" sign and spaced as shown. If traffic is observed to be queuing, or is expected to queue beyond the Rumble Strips, the CW17-2T sign and the CW20-1D sign may be used in conjunction with the CW20-1D sign as necessary to provide needed warning.
- Temporary Rumble Strips will be considered subsidiary to Item 505, and shall be a product listed on the Compliant Work Zone Traffic Control Devices.
- Remove Temporary Rumble Strips before removing the advanced warning signs.
- Temporary Rumble Strips should not be used on horizontal curves, loose gravel, soft or bleeding asphalt, heavily rutted pavements or unopened surfaces.
- Temporary Rumble Strips shall be installed and maintained as per manufacturer's recommendations.
- This standard sheet shall be used in conjunction with other appropriate TCD standards, MUTCD typical application or project specific detail for the project.
- The one-lane two-way application may utilize a flagger, an Automated Flagger Assistance Device (AFAD) or a Portable Traffic Signal (PTS).
- Replace defective Temporary Rumble Strips as directed by the Engineer.
- Temporary Rumble Strips may be used on freeways or expressways based on engineering judgment and written direction from the Engineer.

LEGEND

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

Posted Speed	Formula	Minimum Taper Length	Suggested Maximum Channelizing Device On e Devices	Minimum Sign Spacing	Supported Buffer Spacing
30	$L = 35$	150'	180'	30'	60'
35	$L = 60$	205'	225'	35'	70'
40		265'	295'	40'	80'
45		330'	370'	45'	90'
50		400'	450'	50'	100'
55	$L = 85$	500'	550'	55'	110'
60		600'	660'	60'	120'
65		715'	780'	65'	130'
70		840'	910'	70'	140'
75		990'	1080'	75'	150'

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

TYPICAL USAGE

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

- Signs are for illustrative purposes only. Signs required may vary depending on the TCD, MUTCD Typical Application, or project specific details for the project.
- For posted speeds in excess of 65 MPH, it is recommended that spacing be increased as speed limits increase. Increasing space between rumble strips will improve effectiveness.

TABLE 2

Speed	Approximate distance between strips in an array
≤ 40 MPH	10'
> 40 MPH & ≤ 55 MPH	15'
= 60 MPH	20'
≥ 65 MPH	= 35' +

TEMPORARY RUMBLE STRIPS

WZ (RS) - 22

FILE NO.	07422.dgn	DATE	11/01/12	BY	JAC	CHKD	JAC	DATE	11/01/12
PROJECT	0001	REVISION	1-22	BY	JAC	CHKD	JAC	DATE	11/01/12
DESIGNER	2-14	REVISION	1-22	BY	JAC	CHKD	JAC	DATE	11/01/12
DATE	4-16	REVISION	1-22	BY	JAC	CHKD	JAC	DATE	11/01/12

End of Addendum Number 1

City of Liberty Public Works Director

Damon Jones

A handwritten signature in blue ink, appearing to read 'Damon Jones', is written over the printed name. The signature is stylized with a large loop and a long horizontal stroke extending to the right.