



CITY OF WACO

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Date: 09/25/2020
RFB No: 2020-051
Commodity: Street Improvements – 2019 Reclamation Phase 1
Purchasing Agent: Mr. Kasey Gamblin

Closing Time: 2:00 P.M. CST, Thursday, October 1, 2020
Opening Time: 2:01 P.M. CST, Thursday, October 1, 2020

RFB Opening Location: Operations Center, Purchasing Services Office, 1415 N. 4th St.,
 Waco, TX 76707

Addendum No: 2
Questions and Answers
Changes to Specifications and Drawings
Updated Bid Form

The above-mentioned RFB invitation has been changed in the following manner. **Sign and return addendum to the Purchasing Office by the closing time and date with your RFB response.** Returning this page signed by your authorized agent will serve to acknowledge this change. All other requirements of the invitation remain unchanged. If you have any questions, please call or stop by the Purchasing Office at the above address.

Firm: _____

Address _____

Signature of Person
 Authorized to Sign Bid: _____

Signor's Name and Title
 (print or type): _____

E-mail Address: _____

Date: _____ Telephone: _____ Fax: _____

2019 Street Preservation Phase 1 – Contractor Questions (Addendum No.2)

1. Following up to the response to Question 1 on Addendum 1:
 - a. As I understand the response, we are to cement treat whatever depth of existing material is available on the street, then add plant mix cement treated base on top of this to achieve 8" where the existing pavement depth is not 8"? Is this correct?
 - b. If we are cement treating the existing roadway, and we add material on top of this to achieve 8" where it is less than this, it would appear that we are changing the cross slope of the roadway. Is this correct?
 - c. If the existing cross slopes and elevations are supposed to remain unchanged, then in order to achieve the 8" depth where the road is not 8" would require removing and stockpiling the existing road base, cutting the subgrade to the depth needed to have 8" of cement treated base, then replacing and cement treating the base. Please clarify that this is not the intent.
 - d. Would it not be more constructible to grind up the existing roadway and surfacing, then add enough flexible base to achieve the desired 8" depth, and then cement treat this all at one time? There is already a cement item set up for 8" of roadway. Additionally, plant mix cement treated base has a time limit on how long it is workable. On projects where additional pavement depth is desired, it is usually done by bringing in additional road base, mixing with the existing and cement treating together with the existing roadway.
 - e. Please clarify what item 12 MATERIAL HAUL OFF is supposed to be used for. It would appear to be off-setting the 2" of TY C overlay, but this doesn't make sense in light of the need for more material to achieve 8" on portions of the roadways.
2. What is the depth of the subsidiary cement treated base under the new curb and gutter?
3. The plan notes call for priming the cement treated base, then also applying tack coat. Is the tack coat needed since the plans also call out a bonding course under the overlay?
4. Please clarify what type of material is called out as Type B on the curb & Gutter Detail shown on Sheet C802. Is it Class B Concrete or Type B HMA? Historically it has been Class B concrete.
5. There is a light pole shown on Sheet C200 that is designated to be relocated. Who will per this work?
6. Will the City be clearing the trees around the Cherry Street bridge to give access to the bridge bid items?
7. There are a few specific clearing notes shown for Cherry street. Is this the extent of the clearing?
8. What is the section composition for the 2' and 4' transitions?
9. The rail on the Cherry street bridge appears to be galvanized and in good shape. Painting this rail is likely to be very expensive. Is the paint necessary?

City of Waco Responses:

Please see below for responses to contractor questions.

1. See below for follow up questions from responses to Addendum No. 1 questions:
 - a. This is correct. Where the depth of existing pavement and base is less than 8", additional cement treated based shall be added to achieve at least an 8" thick section of cement treated base. See responses to other questions for additional clarification.
 - b. This is not correct. See Notes 3 and 4 on Sheet C418. In general, for N 38th St., N 40th St., and N 43rd St., the proposed pavement surface elevations shall match the existing pavement elevations (i.e., no change in cross slope). For Cherry St., the proposed pavement surface elevations is (in general) 2" above the existing pavement elevations.
 - c. The procedure as described in the question is correct. In order to provide a new pavement section with 8" of cement treated base and 2" of TY C HMAC, the Contractor will need to remove and stockpile/windrow the existing road base and remove enough subgrade so that the finished pavement surface elevations match the existing pavement surface elevations. As noted in Section 15.12 of the Special Project Provisions (Sheet C007), "Any haul off required to meet grade in plans shall be taken from subgrade material."
 - d. Plant mix cement treated base will not be required if additional base material is needed to achieve an 8" thickness. Instead, the Contractor shall add gravel base course (per the City of Waco Standard Specifications for Construction, Part 2.3.A) to the existing base material and cement-treat all the material together on site.
 - e. As noted in the above responses, haul off of the existing subgrade material will be required to ensure the final pavement surface elevations match the existing pavement elevations for 38th, 40th, 43rd and are only 2" higher on Cherry St.
2. The depth of the subsidiary cement treated based under and behind the new curb and gutter is 8 inches.
3. The Bonding Course referenced in the Special Project Provisions, Section 13.11 is only applicable to pavement sections that will receive mill and overlay. These Bonding Course products are not to be used for reclamation. The prime and tack coat products for reclamation are specified in Sections 16.4 and 16.5, respectively.
4. The material called out as Type B shall be revised to say "2000 PSI CONCRETE." Details on C802 have been revised. Note that the 2000 psi concrete shall only be used for pavement transitions between new curb & gutter and existing pavement. Reference the Typical Street Sections on C418 for new curb & gutter in areas to be reclaimed.
5. The City will coordinate relocation of the light pole with Oncor. Note on C200 will be revised to clarify.
6. No. The Contractor will be required to clear any trees or vegetation required to access the Cherry Street Bridge work items. Section 1.14 of the Special Project Provisions has been revised to clarify.
7. Please reference Section 1.14 of the Special Project Provisions. In addition to clearing the right of way for equipment clearance, the Contractor shall clear the right of way as needed to construct the Typical Street Sections show on C418, including the 6' wide shoulder backfill for Cherry St. Specific areas for clearing were identified on Cherry St. as they were particularly overgrown and/or covering City utilities. Additional clearing may be required.

8. The section shall be 2" of TYP C HMAC over 8" of 2000 psi concrete. Details on C801 and C802 have been revised.
9. Upon further investigation, the rail will not need to be painted. Sheets C005, C008, and C419 have been revised.

As a result of these responses, Sheets C004, C005, C006, C007, C008, C200, C418, C419, C801, and C802 have been revised and re-issued via Addendum No. 2.

**BID PROPOSAL FOR
STREET IMPROVEMENTS 2019 RECLAMATION PHASE 1 (18ST2003C)**

ITEM NO	DESCRIPTION	EST QTY	UNIT	UNIT PRICE	ITEM AMOUNT
1	MOBILIZATION	1	LS		
2	SWPP PLAN AND IMPLEMENTATION	1	EA		
3	TRAFFIC CONTROL PLAN AND IMPLEMENTATION	1	EA		
4	BETTER STREETS WACO SIGN ASSEMBLY AND INSTALLATION	2	EA		
5	MILLING (2")	694	SY		
6	2" D-GR HMAC TY-C SAC-B PG 64-22 (OVERLAY)	694	SY		
7	CEMENT TREAT (EXIST MATL) (CTRB), 8" DEPTH (NOT INCLUDING CEMENT)	14,937	SY		
8	CEMENT SLURRY (58 65 LBS/SY FOR 8" DEPTH)	549	TN		
9	IMPORTED GRAVEL BASE COURSE (COW 2.3.A)(NOT INCLUDING CEMENT)	436	CY		
10	LIME TREAT (SUBGRADE)(6")	2,678	SY		
11	LIME (HYDRATED LIME (SLURRY)) (EST. @ 35 LB LIME/SY FOR 6" DEPTH)	47	TN		
12	MATERIAL HAUL OFF	1,570	CY		
13	2" D-GR HMA TY-C SAC B PG 64-22 FOR RECLAMATION	17,620	SY		
14	3" D-GR HMA TY-B PG64-22 FOR RECLAMATION	2,683	SY		
15	REMOVE EXISTING REINFORCED CONCRETE DRIVE APPROACH	770	SF		
16	REMOVE EXISTING CURB AND GUTTER	1,366	LF		
17	REMOVE EXISTING GUTTER	4	LF		
18	REMOVE EXISTING SIDEWALK	1,174	SF		
19	REMOVE EXISTING SIDEWALK RAMP	52	SF		
20	REMOVE EXISTING SOD	3,452	SF		
21	PROPOSED REINFORCED CONCRETE DRIVE APPROACH	1,370	SF		
22	PROPOSED GRAVEL DRIVE - CRUSHED ROCK (D=6")	88	SY		
23	PROPOSED CURB AND GUTTER	1,496	LF		
24	PROPOSED GUTTER	4	LF		
25	PROPOSED CONCRETE VALLEY GUTTER AND/OR CONCRETE FILLET	1,522	SF		
26	SIDEWALK TIE-IN	320	SF		
27	PROPOSED 6" TOPSOIL & SOD	2,409	SF		
28	ADJUST MANHOLE COVER TO GRADE & INSTALL CONCRETE DIAMOND	19	EA		
29	ADJUST WATER VALVE COVER TO GRADE & INSTALL CONCRETE DIAMOND	11	EA		
30	REPLACE OLD WATER VALVE CAN & COVER, ADJUST TO GRADE & INSTALL CONCRETE DIAMOND	7	EA		
31	MOVE FIRE HYDRANT	1	EA		
32	TXDOT TYPE 2 RAMP (REINFORCED)	2	EA		

ALL PAGES OF THE BID PROPOSAL SHOULD BE RETURNED

1 OF 3

BID PROPOSAL FOR

2019 RECLAMATION PH 1

33	TXDOT TYPE 5 RAMP (REINFORCED)	1	EA		
34	TXDOT TYPE 7 RAMP (REINFORCED)	14	EA		
35	TXDOT TYPE 10 RAMP (REINFORCED)	2	EA		
36	REFL PAV MRK TY 1 (W)24"(SLD)(100MIL)	180	LF		
37	REFL PAV MRKR TY II-B-B	15	EA		
38	MOVE TRAFFIC SIGN	3	EA		
39	REMOVE TREES	6	EA		
40	REMOVE DRIFT AT BRIDGE CULVERT INLET	1	LS		
41	(ITEM NOT USED)	0	LS		
42	BRIDGE MARKERS AND DELINEATORS	5	EA		
43	RIP RAP BEDDING MATERIAL (TXDOT ITEM 432)	12	CY		
44	18" GROUTED RIP RAP (TXDOT ITEM 432)	124	CY		
45	18" RCP (CLASS III) INCLUDING EXCAVATION & BACKFILL	82	LF		
46	24" RCP (CLASS III) INCLUDING EXCAVATION & BACKFILL	172	LF		
47	10' STANDARD CURB INLET (COMPLETE-IN-PLACE)	2	EA		
48	15' STANDARD INLET	2	EA		
49	6' STANDARD INLET	1	EA		
50	C900 PVC 6"	40	LF		
51	45 DEG BENDS (6" WATER LINE)	4	EA		
52	BROADCAST SEED (PERM)(URBAN)(CLAY)(INCL WATERING)	1,600	SY		

TOTAL AMOUNT BID:

BID PROPOSAL FOR

2019 RECLAMATION PH 1

I WILL USE THE FOLLOWING SUBCONTRACTORS FOR THIS WORK:

<u>SUBCONTRACTOR</u>	<u>TYPE OF WORK</u>
----------------------	---------------------

FIRM NAME: _____

BY (SIGNED): _____

TITLE: _____

ADDRESS: _____

Contractor acknowledges and agrees that the official TOTAL AMOUNT OF BID is determined by multiplying the unit bid prices by the respective estimated quantities shown in this bid proposal and then totaling all of the extended amounts. Extended amounts SHOULD NOT be rounded up or down. All dollar amounts should be either written legibly or typed. Any mistakes should be rewritten and initialed by the Contractor.

STREET IMPROVEMENTS 2019 RECLAMATION PHASE 1 - SCHEDULE OF QUANTITIES

GENERAL CONDITIONS

ITEM NO	UNIT	DESCRIPTION						TOTAL QTY
1	LS	MOBILIZATION						1
2	EA	SWPP PLAN AND IMPLEMENTATION						1
3	EA	TRAFFIC CONTROL PLAN AND IMPLEMENTATION						1
4	EA	BETTER STREETS WACO SIGN ASSEMBLY AND INSTALLATION						2
ITEM NO	UNIT	DESCRIPTION	N 38TH ST	PARROTT AVE	N 40TH ST	N 43RD ST	CHERRY ST	TOTAL QTY
5	SY	MILLING (2")	-	-	114	218	362	694
6	SY	2" D-GR HMA TY-C SAC-B PG 64-22 (OVERLAY)	-	0	114	218	362	694
7	SY	CEMENT TREAT (EXIST MATL) (CTRB). 8" DEPTH (NOT INCLUDING CEMENT)	4,723	203	5,896	4,115	-	14,937
8	TN	CEMENT SLURRY (65 LBS/SY FOR 8" DEPTH)	171	7	234	136	-	549
9	CY	IMPORTED GRAVEL BASE COURSE (COW 2.3.A) (NOT INCLUDING CEMENT)	121	6	293	16	-	436
10	SY	LIME TREAT (SUBGRADE)(6")	-	-	-	-	2,678	2,678
11	TN	LIME (HYDRATED LIME (SLURRY)) (EST. @ 35 LB LIME/SY FOR 6" DEPTH)	-	-	-	-	47	47
12	CY	MATERIAL HAUL OFF	409	18	653	267	223	1,570
13	SY	2" D-GR HMA TY-C SAC B PG 64-22 FOR RECLAMATION	4,723	203	5,896	4,115	2,683	17,620
14	SY	3" D-GR HMA TY-B PG64-22 FOR RECLAMATION	-	-	-	-	2,683	2,683
15	SF	REMOVE EXISTING REINFORCED CONCRETE DRIVE APPROACH	551	140	-	79	-	770
16	LF	REMOVE EXISTING CURB AND GUTTER	698	-	543	125	-	1,366
17	LF	REMOVE EXISTING GUTTER	-	-	4	-	-	4
18	SF	REMOVE EXISTING SIDEWALK	530	-	482	162	-	1,174
19	SF	REMOVE EXISTING SIDEWALK RAMP	52	-	-	-	-	52
20	SF	REMOVE EXISTING SOD	1,362	-	1,258	832	-	3,452
21	SF	PROPOSED REINFORCED CONCRETE DRIVE APPROACH	799	492	-	79	-	1,370
22	SY	PROPOSED GRAVEL DRIVE - CRUSHED ROCK (D=6")	14	-	-	-	74	88
23	LF	PROPOSED CURB AND GUTTER	869	236	300	91	-	1,496
24	LF	PROPOSED GUTTER	-	-	4	-	-	4
25	SF	PROPOSED CONCRETE VALLEY GUTTER AND/OR CONCRETE FILLET	655	-	867	-	-	1,522
26	SF	SIDEWALK TIE-IN	135	-	136	49	-	320
27	SF	PROPSD 6" TOPSOIL & SOD	1,022	-	829	558	-	2,409
28	EA	ADJUST MANHOLE COVER TO GRADE & INSTALL CONCRETE DIAMOND	7	1	3	3	5	19
29	EA	ADJUST WATER VALVE COVER TO GRADE & INSTALL CONCRETE DIAMOND	2	2	4	-	3	11
30	EA	REPLACE OLD WATER VALVE CAN & COVER, ADJUST TO GRADE & INSTALL CONCRETE DIAMOND	2	-	-	4	1	7
31	EA	MOVE FIRE HYDRANT	-	1	-	-	-	1
32	EA	TXDOT TYPE 2 RAMP (REINFORCED)	2	-	-	-	-	2
33	EA	TXDOT TYPE 5 RAMP (REINFORCED)	1	-	-	-	-	1
34	EA	TXDOT TYPE 7 RAMP (REINFORCED)	4	-	6	4	-	14
35	EA	TXDOT TYPE 10 RAMP (REINFORCED)	1	-	1	-	-	2
36	LF	REFL PAV MRK TY 1 (W)24"(SLD)(100MIL)	20	-	120	40	-	180

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STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
SCHEDULE OF QUANTITIES - 1 OF 2

ADDENDUM NO. 2	09/23	
ADDENDUM NO. 1	09/10	
NO.	REVISION	DATE



Design: MLZ Approved: JSH
Checked: JSH Project Mgr.: JSH

Project No: 18ST2003C Sheet No: C004
Issue Date: AUGUST 2020

STREET IMPROVEMENTS 2019 RECLAMATION PHASE 1 - SCHEDULE OF QUANTITIES (CONTINUED)

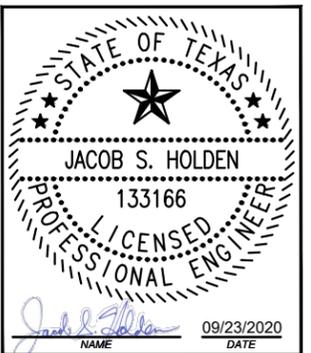
ITEM NO	UNIT	DESCRIPTION	N 38TH ST	PARROTT AVE	N 40TH ST	N 43RD ST	CHERRY ST	TOTAL QTY
37	EA	REFL PAV MRKR TY II-B-B	3	-	7	4	1	15
38	EA	MOVE TRAFFIC SIGN	1	-	1	1	-	3
39	EA	REMOVE TREES	6	-	-	-	-	6
40	LS	REMOVE DRIFT AT BRIDGE CULVERT INLET	-	-	-	-	1	1
41	LS	PAINT STEEL BRIDGE RAILS (INCLUDING POSTS AND BASE PLATES) ITEM NOT USED	-	-	-	-	1	1
42	EA	BRIDGE MARKERS AND DELINEATORS	-	-	-	-	5	5
43	CY	RIP RAP BEDDING MATERIAL (TXDOT ITEM 432)	-	-	-	-	12	12
44	CY	18" GROUTED RIP RAP (TXDOT ITEM 432)	-	-	-	-	124	124
45	LF	18" RCP (CLASS III) INCLUDING EXCAVATION & BACKFILL	-	82	-	-	-	82
46	LF	24" RCP (CLASS III) INCLUDING EXCAVATION & BACKFILL	-	172	-	-	-	172
47	EA	10' STANDARD CURB INLET (COMPLETE-IN-PLACE)	-	2	-	-	-	2
48	EA	15' STANDARD INLET	-	2	-	-	-	2
49	EA	6' STANDARD INLET	-	1	-	-	-	1
50	LF	C900 PVC 6"	-	40	-	-	-	40
51	EA	45 DEG BENDS (6" WATER LINE)	-	4	-	-	-	4
52	SY	BROADCAST SEED (PERM) (URBAN) (CLAY) (INCL WATERING)	-	-	-	-	1,600	1,600

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STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
SCHEDULE OF QUANTITIES - 2 OF 2

ADDENDUM NO. 2	09/23
NO.	REVISION DATE



Design: MLZ Approved: JSH
Checked: JSH Project Mgr.: JSH

Project No: 18ST2003C Sheet No: C005
Issue Date: AUGUST 2020

SPECIAL PROJECT PROVISIONS

- 1. GENERAL**
- 1.1. **Project Specifications** - In addition to the project's Special Project Provisions and the instructions provided in the drawings, the following specifications shall be followed as noted:
- 1.1.1. **City of Waco Standard Specifications for Construction (2013) and City of Waco Manual of Standard Details (2015):** The *City of Waco Standard Specifications for Construction (2013)* and the *City of Waco Manual of Standard Details (2015)* are incorporated herein by reference for all intents and purposes. If a standard specified in the *City of Waco Standard Specifications* and/or *City of Waco Manual of Standard Details* conflicts with a standard included within the project's Special Project Provisions and/or drawings, the project's Special Project Provisions and/or drawings control. If the standard is unclear, the City Engineer for the City of Waco will determine which standard controls and their determination shall be final. The *City of Waco Standard Specifications for Construction* include any Special Provisions published by the City Engineer on the City's website (<https://www.waco-texas.com/engineering-specifications.asp>). Copies of the *City of Waco Standard Specifications for Construction* and the *City of Waco Manual of Standard Details* may be obtained by contacting the Public Works Department for the City of Waco (254-750-5440) or by accessing the City of Waco's website (<https://www.waco-texas.com/engineering-specifications.asp>).
- 1.1.2. **Texas Department of Transportation Specifications and Special Provisions:** Portions of this project require the Contractor to follow *Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges* adopted by the Texas Department of Transportation (November 2014). A copy of these specifications may be found on the Texas Department of Transportation's (TxDOT) website: <https://ftp.txdot.gov/pub/txdot-info/cmd/cserve/specs/2014/standard/specbook-2014.pdf>. Any TxDOT Special Provisions to Specifications referenced in this project and published on their website: (<http://www.dot.state.tx.us/apps-cg/specs/toc.asp?year=4&type=SP&list=sd>) shall be followed. TxDOT Specifications and Special Provisions utilized for this project include, but are not limited to:
- | ITEM | TITLE |
|------|---|
| 104 | REMOVING CONCRETE |
| 164 | SEEDING FOR EROSION CONTROL |
| 502 | BARRICADES, SIGNS, AND TRAFFIC HANDLING |
| 658 | DELINEATOR AND OBJECT MARKER ASSEMBLIES |
| 666 | RETROREFLECTORIZED PAVEMENT MARKINGS |
| 672 | RAISED PAVEMENT MARKERS |
| 3076 | DENSE-GRADED HOT-MIX ASPHALT |
- 1.1.3. **TxDOT Standard Plans and Details:** The Contractor shall follow the TxDOT standard plans and details provided in the drawings.
- 1.2. **TxDOT Waco District General Notes:** For TxDOT Standard Specification and Special Provision Items utilized on this project, the Contractor shall follow the General Notes utilized by TxDOT's Waco District. Requirements included in the General Notes are included at the end of these Special Project Provisions.
- 1.3. **Construction Surveying** - All construction staking shall be provided by the Contractor. This provision supersedes the most current Standard Specifications for Construction and all other city contract documents.
- 1.4. **Site Restoration** - All areas (vegetated, gravel, paved, etc.) disturbed by the work of this contract must be restored to pre-project or better condition. Payment for this work will be considered to be subsidiary to completion of the associated work item unless otherwise provided. All existing vegetated areas must be restored to existing condition or better with topsoil and either seed or sod as appropriate. In yards, sod shall be utilized and shall match existing turf. In undeveloped areas, Contractor shall use seed or sod. Contractor is responsible for watering and all required care until project acceptance. This work will be considered subsidiary to the project, unless otherwise specified.
- 1.5. **Protection of Facilities in Right of Way** - The Contractor shall be responsible for adequately protecting all facilities (mailboxes, trees, bushes, sidewalks, handicap ramps, etc.) not designated for removal. Any facilities that sustain damage shall be restored to existing or better condition, and the cost of the restoration shall be subsidiary to the work.
- 1.6. **Underground Utilities** - The attention of the Bidder is drawn to requirements in State law regarding location of underground utilities prior to excavation and the reporting of damage to any gas line.
- 1.7. **Above Ground Utilities** - The Contractor is responsible for coordinating with the appropriate utilities owning any poles or signs that may be impacted during the work of this contract. Bracing and protective measures per the requirements of the signs' owners shall be provided by the Contractor and shall be considered subsidiary to the work.
- 1.8. If the Contractor chooses to utilize a private lot(s) as a staging area, the Contractor shall provide the City written permission from the property owner(s). The project shall not be finalized until the Contractor provides a written letter from the property owner(s) saying that the property owner is satisfied with the said lot(s) once the Contractor demobilizes.
- 1.9. Material on hand shall not be considered for payment.
- 1.10. All earthwork (cut and fill) required for the work of this contract, unless otherwise specified, is subsidiary to payment for the various bid items.
- 1.11. The Contractor shall coordinate all work with schools affected by the construction at the beginning of construction and maintain communication until final acceptance of the roadway. Coordination will be required if any bus routes (Waco ISD, Midway ISD, Waco Transit, or other) are affected or there is a school within one block of construction.

- 1.12. The Contractor shall coordinate all work with the City's Waste Management Division to avoid interruption of service on trash pickup days. Contact information is provided in the plans.
- 1.13. **Projectmates**
- 1.13.1. The City has setup an Internet-based project management system called Projectmates for managing design and construction projects. The Contractor will be required to utilize Projectmates as follows:
- 1.13.2. Contract management related processes including RFIs, submittals, field reports, meeting minutes, change orders, pay application, punch lists, and close-out documents shall be submitted, tracked, and responded to, by the Contractor, City, and Project Engineer through Projectmates over the Internet. Paper copies shall not be accepted unless specifically requested.
- 1.13.3. The City of Waco Projectmates software portal is: <https://cityofwaco.projectmates.com>
- 1.13.4. One (1) Projectmates user license will be provided to the Contractor by the City without charge. The City will recover the license upon project completion.
- 1.13.5. The Contractor shall be familiar with Projectmates prior to the pre-construction meeting. Training can be arranged by contacting software vendor Systemates Inc. Training expenses shall be borne by the Contractor. Contact Systemates, Inc. Richardson, Texas 214-217-4100 or email info@systemates.com
- 1.14. **Right of Way Clearing** - The Contractor shall be responsible for clearing the right of way of trees, shrubs, and other vegetative growth as needed for equipment clearance, access to bridge work, construction of street components, and any other work required for this Project, prior to beginning construction and in areas specifically identified on the drawings. Any cut limbs shall be sealed with Spectracide Pruning Seal, or approved equal. This work shall be subsidiary to all pay items unless otherwise noted on the drawings.
- 2. CHANGE MANAGEMENT**
- 2.1. See section 4 in the General Provisions of the City of Waco Standard Specifications for Construction.
- 3. COMMUNICATION**
- 3.1. Contractor shall contact the Engineering Inspector (EI) a minimum of seventy-two (72) hours and a maximum of ninety-six (96) hours prior to beginning (or recommencing after a hiatus) work; and notify the EI immediately upon any change in schedule.
- 3.2. All homeowners and businesses affected by the construction shall be notified by the Contractor **a minimum of seventy-two (72) hours and a maximum of ninety-six (96) hours** in advance of any street/construction work. See Attachment "A" in the plans for a flier example. Should the work not occur on the specified day, new notification will be distributed when required. The notification shall be in a form of written posting, with the contractor's representative's local cellular telephone number and stating the time and date the work will take place. Flier shall be submitted for approval prior to distribution.
- 3.3. **Portable Changeable Message Signs** - The Contractor shall provide two portable changeable message signs at each work location in accordance with TxDOT Item 6001. A work location is generally defined as a neighborhood, section of neighborhood, or individual street (collectors and arterials). The signs shall be placed at the beginning and end of the neighborhood or street seven (7) days before construction or any major traffic pattern changes/shifts. This item shall be subsidiary to the Traffic Control Plan and Implementation bid item.
- 4. HOUSEKEEPING**
- 4.1. During the progress of the Work and on a daily basis, Contractor shall keep all the premises (including any staging areas) free from accumulation of all waste materials, rubbish and other debris resulting from the Work.
- 4.2. The Contractor shall remove all material stockpiles, equipment left overnight or any obstructions within thirty (30) feet of a travel way or clearly mark by warning lights and barricades.
- 4.3. At the completion of the Work, Contractor shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery and surplus materials. Contractor shall leave the site clean and ready for the Owner prior to initiating project completion process (requesting punch list, etc.).
- 4.4. It shall be the responsibility of the Contractor to keep the roadway, drive approaches, and sidewalk clean of mud, sand, rock, and other debris.
- 4.5. If the Contractor fails to comply with these requirements, the Owner may do so and pass along all related costs to the Contractor.
- 5. SAFETY**
- 5.1. **Temporary Traffic Control Plans (TCP)** - TCPs shall be compiled by licensed or certified personnel (Texas Licensed Professional Engineer; IMSA Certified Work Zone - Work Zone Traffic Control Safety Certification; TEEEX, Texas A&M Engineering Extension Services, American Traffic Safety Service Association (ATSSA) Traffic Control Design Specialist (TCDS); or Work Zone Traffic Control Certification, HWS002). Documentation of current certification shall be submitted with all TCPs. The TCP's shall be drawn in AutoCAD and provided to the City in PDF format.
- 5.1.1. After the contract has been awarded and during the submittal phase, the Contractor shall provide acceptable Traffic Control Plans along with evidence of certification for the person creating the Traffic Control Plans. Each TCP must be developed to address the specific conditions of the planned construction work zone location. Multiple phases of construction will require a separate TCP for each phase. All may be submitted at one time for acceptance. The Contractor shall incorporate the various TxDOT Barricade Standards, Traffic Control Plan Standards, and Work Zone Standards included in the project plans into the TCPs as appropriate.
- 5.2. **Construction Constraints** - The Contractor shall be constrained to the following when planning and executing the Work:
- 5.2.1. Street and lane closures shall be limited to working hours between 8:00 AM and

5:00 PM. Outside of those working hours, the Contractor shall provide access to existing driveways and smooth transitions at each end of the working limits.

5.2.2. No more than one block's length of street may be left without reclaimed cement treated base at any one time.

- 6. EROSION CONTROL**
- 6.1. The Contractor shall use Best Management Practices (BMPs) to provide erosion control measures for this project. This is subsidiary to the "SWPP PLAN" and "SWPPP IMPLEMENTATION" line items. Erosion control measures to be used must be submitted in writing to the Engineer and approved by the Engineer before work begins. Contractor shall be responsible for providing a plan that meets regulatory requirements and implementation of that plan across the entire project site. Additional erosion control measures beyond what is shown in the plans may be required and shall be subsidiary to the SWPPP IMPLEMENTATION line item.
- 7. PERMITS - NOT USED**
- 8. SCHEDULE**
- 8.1. The pre-construction meeting will be scheduled by City of Waco staff. The construction schedule for this project is set at **110 working days**, beginning on the Notice to Proceed date and ending on the date of final acceptance. The Notice to Proceed will be issued after receipt of executed contracts and completion of the pre-construction meeting.
- 8.2. A Working Day is defined as any day of the week, not including Saturdays, Sundays, or Legal Holidays during which conditions under the CONTRACTOR's control will permit work for a continuous period of not less than seven (7) hours between 7:00 a.m. and 6:00 p.m. Upon agreement with the Owner's Representative, work on Saturdays, Sundays and/or Legal Holidays may be allowed and will be considered a Working Day. The project schedule includes time to:
- 8.3.1. Develop, submit, review, approve and implement the SWP3/erosion control plan;
- 8.3.2. Develop, submit, review, and approve safety and material submittals;
- 8.3.3. Complete and commission the Work;
- 8.3.4. Complete the project closure activities and paperwork.
- 8.4. The Contractor shall maintain a work force adequate to accomplish the work within the contract time. The Contractor agrees to employ only orderly, competent, and knowledgeable workers, skillful in performance of the type of work required under this contract.
- 8.5. Contractor's representative (City of Waco Standard Specifications for Construction, General Provisions, Section 8.7, page 58) - "Before starting work, the Contractor shall designate in writing a representative who shall have complete authority to act for it. . . The representative or alternate shall be present at the Work site whenever work is in progress . . ."
- 8.6. The Contractor is required to provide an approved construction schedule within two weeks of the effective date of the notice to proceed. The schedule shall be in a Gantt, CPM, or PERT format suitable to depict the project work plan.
- 8.7. The Contractor shall supply the Project Engineer with a tentative schedule at least ten (10) days in advance of placement, along with weekly schedule.
- 8.8. The Contractor shall also provide updated schedules as warranted by the progress of the work or as requested by Project Engineer or Representative.
- 8.9. Work in conflict with special events or ongoing utility work may be suspended, delayed, or redirected when determined by the City at no additional expense to the City.
- 9. PROJECT COMPLETION**
- 9.1. It is expected that the Contractor shall complete the "final" phase of the project in no more than ten (10) working days after completion of pay items, within the constraints of paragraphs 7.3 and 7.4.
- 9.2. When Contractor completes all work or pay items, the Contractor shall submit a written request for a punch list.
- 9.3. The EI will coordinate a "walk of the project" with the Contractor and other City representatives and issue the punch list.
- 9.4. When Contractor deems all punch list items are complete, the Contractor shall submit a written request for a final inspection.
- 9.5. When the EI finds all items complete to their satisfaction the EI shall submit a letter of final acceptance which will request the Contractor submit a one-year guarantee and an all bills paid affidavit, both notarized.
- 9.5.1. The final acceptance letter will include an accurate description of the Work being accepted.
- 9.5.2. If private property is used the EI shall receive from the Contractor a written release from the property owner accepting the condition of their property.
- 9.5.3. Once the guarantee and affidavit are received the project will be deemed final.
- 9.6. **Warranty** - (City of Waco Standard Specifications for Construction, General Provisions, Section 7.7, page 51). The EI will schedule a warranty walk approximately eleven (11) months after project completion. If any issues arise during the warranty period, the EI will send written request to the Contractor to remedy the issue(s).
- 10. SUBMITTALS**
- 10.1. All submittals shall be complete shop drawings and design data, providing the information necessary to document compliance with all specifications. See section 2.6 C in the General Provisions of the City of Waco Standard Specifications for Construction.
- 11. CURB, GUTTER AND PEDESTRIAN IMPROVEMENTS**
- 11.1. The Contractor will be responsible for construction of all curb and gutter, and other tie-ins to meet existing grades as shown in the plans and described in all details and notes.
- 11.2. The Contractor shall work with property owners when working on or near driveways in order to ensure that access is maintained at all times.



STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
SPECIAL PROJECT PROVISIONS - 1 OF 3

NO.	REVISION	DATE
2	ADDENDUM NO. 2	09/23



Design: MLZ Approved: JSH
Checked: JSH Project Mgr.: JSH

Project No: 18ST2003C	Sheet No. C006
Issue Date: AUGUST 2020	

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SPECIAL PROJECT PROVISIONS

- 11.3. All subgrade, fill, and HMAC work required in the curb and gutter details in the plans shall be subsidiary to the Curb and Gutter bid item. This work includes the asphalt removal and replacement in front of curb and gutter, drive approaches, and concrete fillets required to provide a smooth transition between the existing pavement elevation and the new edge of gutter/drive approach/fillet elevation.
- 11.4. The following shall be used to clarify the Curb and Gutter notes shown in the City of Waco Details with regards to new curb and gutter:
 - 11.4.1. Contractor shall extend the depth of the curb or curb and gutter if the extension required is less than 4".
 - 11.4.2. If the extension required is greater than 4", Contractor may either extend the depth of the concrete or use compacted road gravel.
 - 11.4.3. In all cases for new curb and gutter, the Contractor shall stabilize the subgrade to a depth of 6" with a lime application rate of 30 lb/SY. Reference the City of Waco Standard Specifications for Construction for additional requirements.
- 11.5. The EI and Contractor will walk lanes to receive surface treatment and determine where curb and gutter replacement is required, and the specific locations/elevations given in the plans may change. The final decision will be the City's. The unit price as bid will be used regardless of the quantity.
- 11.6. Where vegetation is to be established in an area where concrete or asphalt is being removed, Contractor will be paid per square foot for the work. This pay item includes watering and all required care until project acceptance. Either cool weather or warm weather seed/sod shall be used (depending on the season), and quantities have been estimated based on a two-foot-wide strip behind sidewalk and/or curb and gutter. For erosion control in the cool season, temporary seed must be placed and then followed by either permanent seed or block sodding. Sod will be required for developed properties.
- 11.7. All earthwork (cut and fill) required for the work of this contract, unless otherwise specified, is subsidiary to payment for the sidewalk, retaining wall, etc.
- 11.8. At all pedestrian ramp locations, the change in elevation between the curb and gutter and beginning of the ramp rise shall not exceed 1/4-inch.
- 11.9. The maximum cross slope in any direction on the new sidewalk shall be 2% and graded to drain with a minimum slope of 0.5%, unless otherwise noted on plans.
- 11.10. The maximum slope in any direction across a landing shall be 2%. Landings shall be graded to drain with a minimum slope of 0.5%, unless otherwise noted on plans.
- 11.11. The Contractor may scale the length of ramps, dimensions of landings, etc. from the plans for estimating purposes, but these lengths and dimensions are approximate. The Contractor will be responsible for construction of all ramps and landings, sidewalk, vegetated areas, driveways and other tie-ins to comply with maximum and minimum slopes and widths and to meet existing grades as shown in the plans and described in all details and notes.
- 11.12. Each ramp will be bid as a unit price item. The unit price bid will be full compensation for materials, tools, labor and incidentals to construct the ramp, upper and lower landings, detectable warning surface, and flares as shown on the plans.
- 11.13. Each ramp will be bid as a unit price item. The unit price bid will be full compensation for materials, tools, labor and incidentals to construct the ramp, upper and lower landings, detectable warning surface, curbs, and flares as shown on the plans.

EXISTING PAVEMENT THICKNESS	MILL DEPTH	HMAC OVERLAY DEPTH
< 2"	TO BASE	2"
≥ 2"	2"	2"

- 13.2. Adjustments to mill depth shall be made based on the geotechnical boring information provided in the contract book, plans, and/or varying site conditions. The following table shall be used to determine mill and overlay depth based on existing pavement thickness:

EXISTING PAVEMENT THICKNESS	MILL DEPTH	HMAC OVERLAY DEPTH
< 2"	TO BASE	2"
≥ 2"	2"	2"
- 13.3. The minimum thickness of the HMAC overlay in all locations shall be 2 inches. HMAC milling shall be adjusted over a 4-foot width (min) at edges of pavement to ensure final surface course matches the elevation of the gutter lip. Edge milling to depths exceeding those in the table above (i.e. milling into the base if the existing asphalt is less than 2" thick) will be allowed to ensure the new 2" pavement surface matches the existing or proposed gutter lip.
- 13.4. **Exposed base shall receive a prime coat the same day it is exposed.**
- 13.5. Overlay must occur within 7 days of milling.
- 13.6. Do not mill or overlay concrete pavement.
- 13.7. Milling shall be done to match the grade of new and existing surfaces at concrete aprons and valleys, utility vaults (transition so that utility vaults do not need adjustment and a smooth ride is achieved), concrete street intersections, and along intersecting streets identified in the plans.
- 13.8. Where, due to milling, there is a transverse joint greater than 1/2" in depth in a travel way a temporary ramp acceptable to the EI shall be placed prior to opening to traffic.
- 13.9. Millings shall become the property of the Contractor and removed from site. This removal is subsidiary to the unit price for milling.
- 13.10. **Prime Coat**
 - 13.10.1. The Contractor shall utilize a prime coat asphalt applied as a solid and uniform coat over any base material that will receive new HMAC. Prime coat material shall be AE-P, MC-30, or approved equal. Before the prime coat is applied, the surface shall be cleaned thoroughly to the satisfaction of the EI. The rate of application shall be 0.16 gal/SY of residual asphalt and shall provide complete and uniform coverage of the repair surface. The EI must approve proper coverage and may suspend paving operations until satisfactory prime coat has been applied. This item shall be subsidiary to the unit price for base failure repair.
 - 13.10.2. If base material is exposed, the Contractor shall apply a prime coat of the same material and application rate above within the same day of exposure. Base material shall not be left without a prime coat overnight or if rain is forecasted within 8 hours. This item shall be subsidiary to the mill and overlay work.
- 13.11. **Bonding Course**
 - 13.11.1. **General** - For the mill and overlay bonding course only, the Contractor has the option of using either Spray Applied Underseal Membrane (per TxDOT Special Specifications 3002 and 3042) or Tracking-Resistant Asphalt Interlayer (TRAIL), product type Hot Asphalt (per TxDOT Special Specification 3042). Bonding Course materials shall not be used for the reclamation portion of the work.
 - 13.11.2. **Spray Applied Underseal Membrane** - City specifications call for RC-2, but for this project, spray applied underseal membrane shall be used (see TxDOT Special Specification 3002, "Spray Applied Underseal Membrane"), with a solid and uniform coat of oil which shall be a consistently dark color over the entire area. Before the bonding course is applied the surface shall be cleaned thoroughly to the satisfaction of the EI or designated representative. This membrane shall be applied at the rate of 0.19 GAL/SY (residual asphalt) to provide complete and uniform coverage of the underlying milled material. The Contractor shall also apply a uniform coat to all contact surfaces including curbs, castings, structures and joints to provide a closely bonded, watertight joint. The EI or designated representative must approve proper coverage and may suspend paving operations until satisfactory underseal membrane has been applied. This item shall be subsidiary to the unit price for milling.
 - 13.11.3. **TRAIL, product type Hot Asphalt** - Tracking-Resistant Asphalt Interlayer (TRAIL) of the product type Hot Asphalt shall be used per TxDOT Special Specification 3042. The following TRAIL product manufacturers are acceptable for use, without exception:
 - *UltraFuse - Trackless Hot Applied* by Blackidge
 - *Underseal* by Jebro
 - *eTac-HB* by Ergon Asphalt and Emulsions
 - *DOT-C-LT* by Texas Materials Group
 Before the bonding course is applied the surface shall be cleaned thoroughly to the satisfaction of the EI or designated representative. This product shall be applied at a minimum rate of 0.19 GAL/SY to provide complete and uniform coverage of the underlying milled material. The Contractor shall also apply a uniform coat to all contact surfaces including curbs, castings, structures and joints to provide a closely bonded, watertight joint. The Engineer or designated representative must approve proper coverage and may suspend paving operations until satisfactory coverage has been achieved. This item shall be subsidiary to the unit price for milling.

- 14.3. The Contractor shall provide results from the mix prior to construction.
- 14.4. A City of Waco representative shall inspect the stockpile prior to construction.
- 15. **RECLAMATION MATERIALS**
 - 15.1. **General** - The reclamation process consists of the following: break up and process surfacing, base and cement; compact & sweep base; moisten (no standing water); keep moist; prime coat; sub-surface course (if included) with bonding course, and final surface course. See section 2.3.D of the City of Waco Standard Specifications for additional requirements.
 - 15.2. When reclaiming more than one section of continuous street, the Engineer or designated representative will have the final decision whether to reclaim cross streets.
 - 15.3. In locations where the lip of the gutter is displaced along the street and matching at these points proves difficult, it shall be the Contractor's primary responsibility to maintain a "smooth ride" and secondarily to attempt to follow the lip of the gutter while still maintaining a 2" minimum depth of asphalt along the lip.
 - 15.4. At various locations, hot-mix that currently exists in the gutter shall be milled to the gutter level. Payment for this work shall be subsidiary to various bid items in the contract.
 - 15.5. Hot-mix Asphalt Concrete (HMAC) shall be TxDOT Special Specification 3076 Dense-Graded Hot-Mix Asphalt Type C performance graded asphalt 64-22 (final surface) and TxDOT Special Specification 3076 Dense-Graded Hot-Mix Asphalt Type B performance graded asphalt 64-22.
 - 15.5.1. Contractor shall use a laydown machine for all HMAC placement. "Balding in" HMAC Type B is prohibited.
 - 15.5.2. Contractor shall allow sufficient time for each HMAC lift to cool prior to placing next lift or surface course.
 - 15.6. The Contractor shall provide results from the mix prior to construction.
 - 15.7. The Engineer or designated representative shall inspect the stockpile prior to construction.
 - 15.8. The Contractor shall windrow the mixed base to the side and excess subgrade will be excavated and hauled off. Excess material shall become the property of the Contractor and removed from the site.
 - 15.9. For this reclamation work RC-250 or AE-P shall be considered an approved equal to RC-2, using the same procedure within Section 2.5 of the Standard Specifications for Construction (2013).
 - 15.10. The prime coat must be solid and uniform, with a consistently dark color over the entire area. The street shall be clean of any sediment or debris prior to paving. The oil may need to be reapplied as required to ensure a solid, uniform, and complete coat prior to paving.
 - 15.11. Application rates for the oils utilized shall be discussed and approved by the Project Engineer or designated representative.
 - 15.12. Any haul off required to meet grade in plans shall be taken from subgrade material.
 - 15.13. **Imported Gravel Base Course** - The volume of the existing pavement and base material is not sufficient to provide an 8-inch depth of cement treated base across the entire road. Imported gravel base conforming to Section 2.3.A of the City of Waco Standard Specifications shall be brought in and mixed with the existing material to fill the deficit. Portland cement rate shall be the same as that specified in Section 16.1 of these Special Project Provisions. Measurements and payment for this item shall be by the cubic yard (CY) of gravel base delivered, cement treated, and compacted in place.

12. STREET WORK

- 12.1. The Contractor may pave any time (during working hours established in Section 7) the roadway has no standing water on the roadway surface, the roadway surface temperature is at least 60°F and the ambient temperature is at least 50°F and rising. Place mixtures only when the EI determines the roadway surface weather and moisture conditions are suitable. The EI may restrict the Contractor from paving if the ambient temperature is below 60°F and falling. Cease placement twenty-four (24) hours before the National Weather Service forecast predicts temperatures below 32°F unless otherwise approved.
- 12.2. No asphalt treatments will be applied just prior to a rain event that could result in chemical asphalt or any asphalt by-product pollutant being washed into a stream or stormwater collection system.
- 12.3. No AC or Emulsion for surface treatment items will be placed between October 1 and April 1 unless approved in writing by the Project Engineer.
- 12.4. Installation of new curb and gutter, concrete fillets and valley gutters; completion of base failure repair; and HMAC grinding and level up work **shall all be completed prior to the HMAC work.**
- 12.5. All aggregate for each project will come from the same source or blended sources approved by the Project Engineer.
- 12.6. Remove all dirt and debris accumulated in the curb and gutter sections prior to beginning paving. Likewise, remove all vegetation from pavement edges prior to operations. This work will be subsidiary to bid items.
- 12.7. The Contractor shall submit phasing plans for each roadway including request(s) for night work for approval prior to construction.
- 12.8. Surfacing required as repair due to unsatisfactory workmanship by the Contractor will not be paid for directly but shall be deemed the cost responsibility of the Contractor.
- 12.9. Any tracking of asphalt material will be the responsibility of the Contractor to mitigate at no additional expense to the City.
- 12.10. Any conflicts between City of Waco specifications and Texas Department of Transportation specifications will be directed to the Project Engineer to provide clarification.
- 12.11. The elevation adjustment of any "SWB Manholes" shall be coordinated through Calvin Pewitt of AT&T who can be contacted at (254)757-7810 (office), (254)715-7869 (mobile) or at cp8237@att.com.
- 12.12. Any signs removed shall be replaced the same day.

13. MILL AND OVERLAY

- 13.1. **General Process** - The mill and overlay process generally consists of milling to a depth of 2" where HMAC is to be placed (unless otherwise specified), base failure repair if needed, cleaning, and applying a bonding course (either Tracking-Resistant Asphalt Interlayer of product type Hot Asphalt or placing Spray-Applied Underseal Membrane), and placement of 2" of HMAC, Type C.

14. HOT-MIX ASPHALT CONCRETE (HMAC)

- 14.1. The Contractor may not place the pavement course until approval is requested and written approval is received by the Contractor from the Engineer.
- 14.2. HMAC utilized on this project shall be either TxDOT Special Specification 3076 Dense-Graded Hot-Mix Asphalt Type C or Type B (as shown on the plans) performance graded asphalt 64-22 and shall be applied at a rate of 110 lbs/SY/in of compacted pavement.

16. RECLAMATION PROCESS - CEMENT STABILIZATION

- 16.1. Portland Cement shall be placed at a rate of 65 lbs/SY for an 8-inch depth on average. The Contractor shall work with the testing laboratory hired by the City to determine the appropriate amount of cement required as the subgrade is exposed. Variations in cement quantities may occur based on soil characteristics. **Slurry Portland Cement is required.**
- 16.2. After the mixing has occurred, not sooner than twenty-four (24) hours nor after seventy-two (72) hours, roll the finished course with a vibratory roller to induce microcracking. The vibratory roller shall be performed in accordance with TxDOT Item 270, "Rolling," with a static weight equal to or more than 12 tons and the vibratory drum must be not less than 20 in. wide. The roller must travel at a speed of 2 mph, vibrating at maximum amplitude, and make 2 to 4 passes with 100% coverage exclusive of the outside 1 ft. of the surface crown, unless otherwise directed by the Project Engineer. Additional passes may be required to achieve the desired crack pattern as directed. Notify the Project Engineer 24 hours before the microcracking begins. Maintain in a thorough and continuously moist condition by sprinkling until prime coat is applied.
- 16.3. **Protection and Cover:** After the cement treated course has been finished, the surface shall be protected against rapid drying by the following curing method. The protection method shall be continued: (a) for the specified period, but in no case less than 7 days or (b) until the surface course is placed.
 - 16.3.1. Maintain in a thorough and continuously moist condition by sprinkling until prime coat is applied.
- 16.4. **Prime Coat**
 - 16.4.1. Before prime coat is applied the surface shall be cleaned thoroughly to the satisfaction of the Engineer or designated representative. Immediately prior to application of the curing seal, the section shall be wetted so that voids in the surface are filled with water, but without free water standing on the surface.

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STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
SPECIAL PROJECT PROVISIONS - 2 OF 3

	ADDENDUM NO. 2	09/23
	ADDENDUM NO. 1	09/10
NO.	REVISION	DATE



Design: MLZ Approved: JSH
Checked: JSH Project Mgr.: JSH

Project No: 18ST2003C	Sheet No. C007
Issue Date: AUGUST 2020	

SPECIAL PROJECT PROVISIONS

- Yellow markings: 175 mcd/m2/lx

- 19.0.1. Contractor shall complete the retroreflectivity testing in accordance with TxDOT Item 666 and shall provide written report with test results confirming conformance the required retroreflectivity values.
- 19.1. Placement of Raised Pavement Markers shall be done in accordance with TxDOT Item 672, "Raised Pavement Markers."
- 19.2. The Contractor will supply and install the blue raised reflective markers utilized for all fire hydrants within the work limits. This item shall be subsidiary to the various bid items.
- 19.3. Two-way left-turn use arrow pavement markings are to be placed, with 16 feet typical spacing, at or just downstream from the beginning of the two-way left-turn lane, as indicated in plans, per the Texas Manual on Uniform Traffic Control Devices, Section 3B.20.
- 19.4. Pedestrian Crossings are to have 10 feet long by 2 feet wide white bars with 2 feet spacing.
- 19.5. Reflective pavement markings of the break type shall be measured and paid for by the linear feet of pavement marking applied. Contractor shall note that the length and spacing of the yellow and white break lines shown on the plans may not be to scale. The length of the lines shall be 10' and the length of the spacing shall be 30'.
- 19.6. Contractor shall arrange construction operations to prevent the hauling of materials through the completed pavement sections unless otherwise approved by the EI or City Engineer.
- 19.7. The Contractor shall open the pavement to traffic each night.
- 19.8. When work is within 400 feet of a signalized intersection, Contractor shall call for utility locates (811) to identify location of loop detectors, conduits, etc. Any damage to these facilities done by the Contractor shall be repaired by the Contractor to the City of Waco standards and shall be subsidiary to the work.
- 19.9. Removal of raised pavement markers as work progresses shall be subsidiary to the various bid items.

20. WATER VALVE BOXES AND MANHOLE LIDS

- 20.1. Manhole and water valve lids shall be adjusted in accordance with the details provided in the plans.
- 20.2. Adjustment of manholes and valves shall be made to within 1/4" of adjacent proposed grade. Manhole and water valve lids shall be adjusted in accordance with COW Standard Details, and all shall include a concrete pad as shown in the "Manhole Lid Height Adjustment" detail and "Valve Box Height Adjustment" detail. Note that abandoned valves may exist and will be addressed by the EI during construction. If old style valve boxes are encountered during the raising process, the Contractor shall replace them with boxes meeting the new details. The boxes will be either raised or replaced and paid for by the appropriate bid item. **Contractor will not be paid for both.** Salvage all water valve covers and deliver to the City's Utilities Department at 200 Colcord Avenue.

21. CHERRY STREET BRIDGE REQUIREMENTS

- 21.1. Contractor shall paint all exposed metal surfaces (rail, posts, base plates) in accordance with TxDOT Item 446, "Field Cleaning and Painting Steel". SEE SHEET C419 FOR DETAILS
- 21.2. Contractor shall use paint System II.
- 21.3. Per TxDOT Item 446, Contractor shall provide a plan with details on how painting application will be contained from adversely affecting the waterway below the bridge. This containment plan and implementation shall be subsidiary to the painting work.

22. TXDOT WACO DISTRICT, GENERAL NOTES

- 22.1. The following TxDOT Waco District General Notes shall be included as part of the contract documents:

ITEM GENERAL NOTES

164 SEEDING FOR EROSION CONTROL

- Temporary seeding mixtures (cool and warm) will also include three (3) lbs of Bermuda grass seed per acre, with all seeds being planted concurrently.
- Contractor will mow or disc wheat and or oats in spring prior to vegetation going to seed.
- Permanent seed mixes for both urban and rural projects including sand or clay soils in the Waco District will be bid and installed to include a minimum of one & one-half (1.5) pounds per acre Green Sprangletop seed and four (4) pounds per acre Bermudagrass seed, with other seed types also being included and quantities remaining unchanged.

658 DELINEATOR AND OBJECT MARKER ASSEMBLIES

- All flexible and GF2 delineators will have a tubular body.
- The delineator assembly BRF Class A (D-SW) and (D-SY) are to be single delineators (Class I) attached to a flat, plastic bracket to facilitate the mounting of the delineator on top of the bridge rail at the locations shown on the plans. Submit a sample for approval before ordering materials.

16.4.2. **RC-2, RC-250, or AE-P:** Apply an approved asphaltic material to the treated course. The application rate shall provide complete coverage and seal the total surface of the base and fill all voids. For bidding purposes, this residual rate of asphalt is estimated at 0.16 gallon per square yard and is subsidiary to the base work. The Project Engineer or designated representative reserves the right to increase this residual rate during construction with no adjustment to the unit cost. If the base will be opened to traffic before surface coat applied, it shall be the Contractor's responsibility to sand the surface in order to protect the membrane from being picked up by traffic. Prior to the HMAC subsurface or surface course, surface shall be swept clean and free of sand before applying tack coat. This additional layer of tack coat is subsidiary to the base work.

16.5. Tack Coat

- 16.5.1. For the reclamation area shall be the same as the prime coat. Before hot-mix surface course is applied the surface shall be cleaned thoroughly to the satisfaction of the Engineer or designated representative. The Contractor shall also apply a uniform coat to all contact surfaces including curbs and gutters, castings, structures and joints to provide a closely bonded, watertight joint. The Project Engineer or designated representative must approve proper coverage and may suspend paving operations until satisfactory tack has been applied. For bidding purposes this residual rate of asphalt is estimated at 0.06 gallons per square yard and is subsidiary to the base work.
- 16.5.2. The Project Engineer or designated representative may require the use of additional tack coat where insufficient adhesion is provided by the prime coat.
- 16.6. Pavement edge blading shall be subsidiary to the various pay items.
- 16.7. The tack coat shall not be placed within 300 feet of approaches to signalized intersections.

17. LIME STABILIZATION OF SUBGRADE

- 17.1. Lime stabilization of the existing subgrade shall meet the requirements in Section 2.4 of the City of Waco Standard Specifications for Construction.
- 17.2. Lime treatment shall include all portions of the work except the lime material and shall be measured and paid for by the square yard.
- 17.3. The lime material shall be measured and paid for by the ton.
- 17.4. **Hydrated lime slurry shall be used.**

18. PAVEMENT THICKNESS TESTING

- 18.1. Any pavement placed on this project shall be subject to the following testing and deficiency requirements, which supersede those provided in the City of Waco Standard Specifications for Construction.
- 18.2. During and upon completion of the work and before final acceptance and final payment shall be made, pavement thickness tests shall be made by the City or its authorized representative unless otherwise specified in these special project provisions or in the plans. The number and location of tests shall be at the discretion of the City, but will typically be not more than every 2,000 LF and in each lane. In the event a deficiency in thickness of pavement is revealed during normal testing operations, subsequent tests necessary to isolate the deficiency to the satisfactory of the City shall be made at the Contractor's expense and shall be completed by a City-approved laboratory. The cost for the additional coring tests shall be at the same rate charged by commercial laboratories.
- 18.3. **Pavement Thickness, Deficiencies, any Payment**
- 18.3.1. Any area of pavement with a specified depth of 2 inches or greater shall be removed and replaced at the Contractor's expense if the tested depth of the new pavement is less than 2 inches. Depending on the deficiency, the Project Engineer may give the Contractor the option to leave the material in place and forfeit payment for that material.
- 18.3.2. If the specified new pavement depth is greater than 2 inches, the following table shall be used to determine payment for deficiency in thickness:

Deficiency In Thickness Determined by Cores (inches)	Proportional Part of Contract Price Allowed
0.00 - 0.20	80 percent
0.21 - 0.30	70 percent
0.41 - 0.50	60 percent

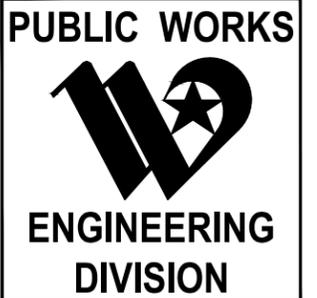
If the pavement thickness deficiency is less than 0.50 inches, the Contractor shall remove and replace the deficient pavement at their own expense.

This table shall not be used once the deficient pavement depth drops below 2 inches, in which case the preceding section will govern.

- 18.3.3. No additional payment over the contract unit price shall be made for any pavement of a thickness exceeding that required by the plans.

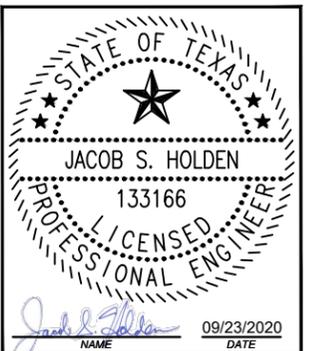
19. PAVEMENT MARKINGS

- 19.1. Temporary Markings shall be placed before lanes are open to traffic.
- 19.2. Place temporary traffic markings that meet the Texas Manual on Uniform Traffic Control Devices on all streets currently marked.
- 19.3. Placement of permanent markings on all streets shall be done as existing, unless indicated in plans. Markings shall meet the requirements of TxDOT Item 666, "RetroreflectORIZED Pavement Markings." This shall include any non-overlaid concrete sections within the street limits.
- 19.3.1. Type 1 markings must meet the following minimum retroreflectivity values for edgeline markings, centerline or no passing barrier-line, and lane lines when measured any time after 3 days, but not later than 10 days after application:
- White markings: 250 millicandelas per square meter per lux (mcd/m2/lx)



STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
SPECIAL PROJECT PROVISIONS - 3 OF 3

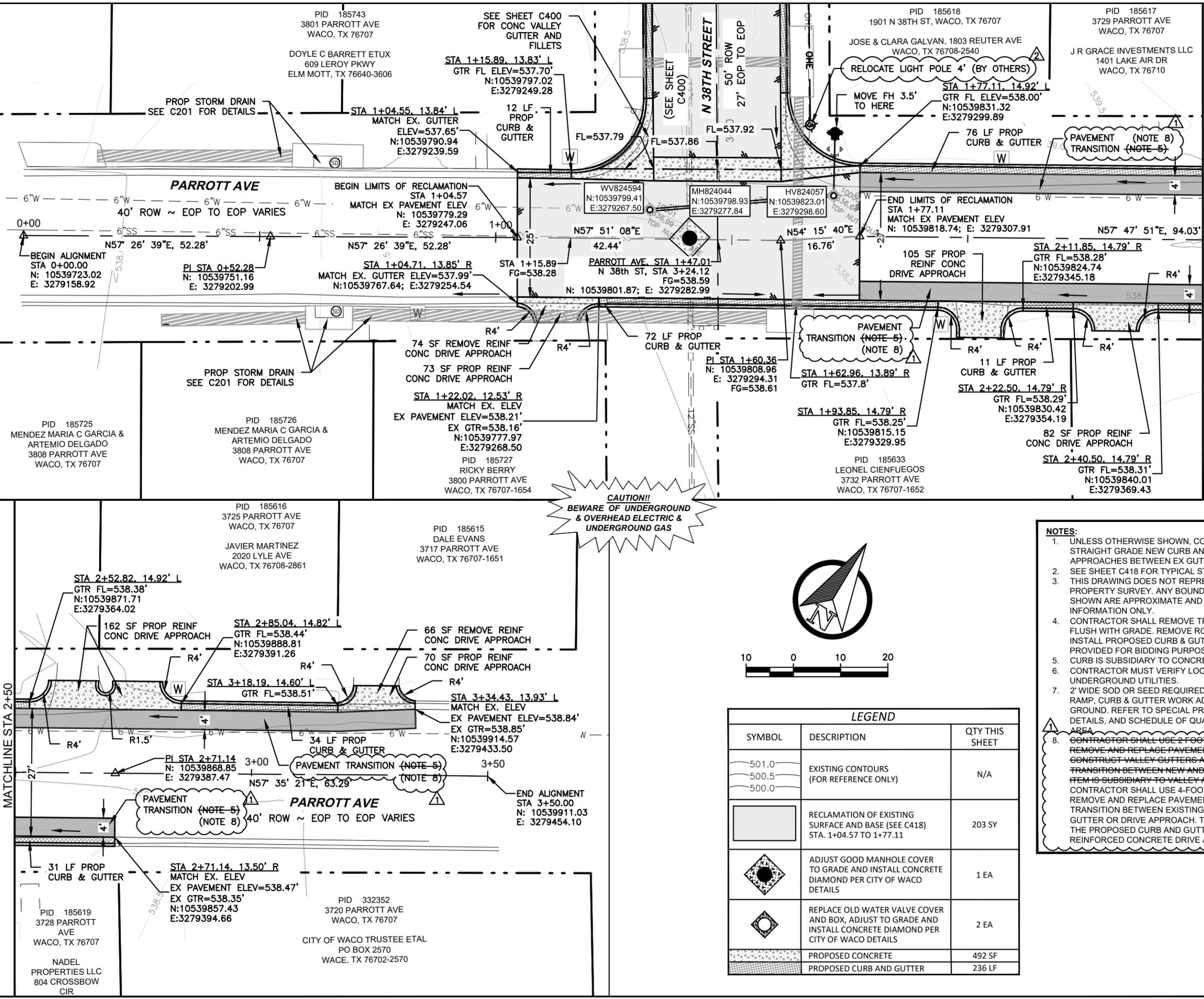
ADDENDUM NO. 2	09/23
NO.	REVISION DATE



Design: MLZ Approved: JSH
Checked: JSH Project Mgr.: JSH

Project No. 18ST2003C	Sheet No. C008
Issue Date: AUGUST 2020	

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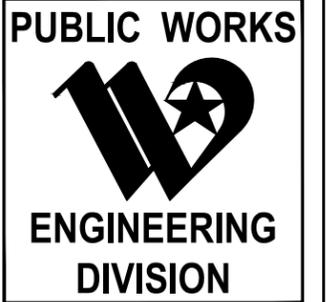


CAUTION!
BEWARE OF UNDERGROUND
& OVERHEAD ELECTRIC &
UNDERGROUND GAS



LEGEND		
SYMBOL	DESCRIPTION	QTY THIS SHEET
501.0	EXISTING CONTOURS (FOR REFERENCE ONLY)	N/A
500.5		
500.0		
[Hatched Box]	RECLAMATION OF EXISTING SURFACE AND BASE (SEE C418) STA. 1+04.57 TO 1+77.11	203 SY
[Diamond with Center]	ADJUST GOOD MANHOLE COVER TO GRADE AND INSTALL CONCRETE DIAMOND PER CITY OF WACO DETAILS	1 EA
[Diamond with Circle]	REPLACE OLD WATER VALVE COVER AND BOX, ADJUST TO GRADE AND INSTALL CONCRETE DIAMOND PER CITY OF WACO DETAILS	2 EA
[Stippled Box]	PROPOSED CONCRETE	492 SF
[Hatched Box]	PROPOSED CURB AND GUTTER	236 LF

- NOTES:**
- UNLESS OTHERWISE SHOWN, CONTRACTOR SHALL STRAIGHT GRADE NEW CURB AND GUTTER AND DRIVE APPROACHES BETWEEN EX GUTTER ELEVATIONS.
 - SEE SHEET C418 FOR TYPICAL STREET DETAILS.
 - THIS DRAWING DOES NOT REPRESENT A BOUNDARY OR PROPERTY SURVEY. ANY BOUNDARY OR PROPERTY LINES SHOWN ARE APPROXIMATE AND ARE FOR GENERAL INFORMATION ONLY.
 - CONTRACTOR SHALL REMOVE TREES AND GRIND STUMP FLUSH WITH GRADE. REMOVE ROOTS AS NEEDED TO INSTALL PROPOSED CURB & GUTTER. TRUNK DIAMETER PROVIDED FOR BIDDING PURPOSES.
 - CURB IS SUBSIDIARY TO CONCRETE FILLET BID ITEM.
 - CONTRACTOR MUST VERIFY LOCATION OF ALL UNDERGROUND UTILITIES.
 - 2' WIDE SOD OR SEED REQUIRED BEHIND ALL SIDEWALK, RAMP, CURB & GUTTER WORK ADJACENT TO NATURAL GROUND. REFER TO SPECIAL PROJECT PROVISIONS FOR DETAILS, AND SCHEDULE OF QUANTITIES FOR ESTIMATED AREA.
 - CONTRACTOR SHALL USE 2 FOOT WIDE SECTION TO REMOVE AND REPLACE PAVEMENT AS NEEDED TO CONSTRUCT VALLEY GUTTERS AND FILLETS AND TRANSITION BETWEEN NEW AND EXISTING PAVEMENT. THIS ITEM IS SUBSIDIARY TO VALLEY AND FILLET BID ITEM. CONTRACTOR SHALL USE 4-FOOT WIDE SECTION TO REMOVE AND REPLACE PAVEMENT AS NEEDED TO TRANSITION BETWEEN EXISTING PAVEMENT AND LIP OF GUTTER OR DRIVE APPROACH. THIS ITEM IS SUBSIDIARY TO THE PROPOSED CURB AND GUTTER AND PROPOSED REINFORCED CONCRETE DRIVE APPROACH BID ITEMS.



**STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
RECLAMATION MAP
PARROTT AVE
STA 0+00 TO 3+50**

ADDENDUM NO. 2	09/23	
ADDENDUM NO. 1	09/10	
NO.	REVISION	DATE

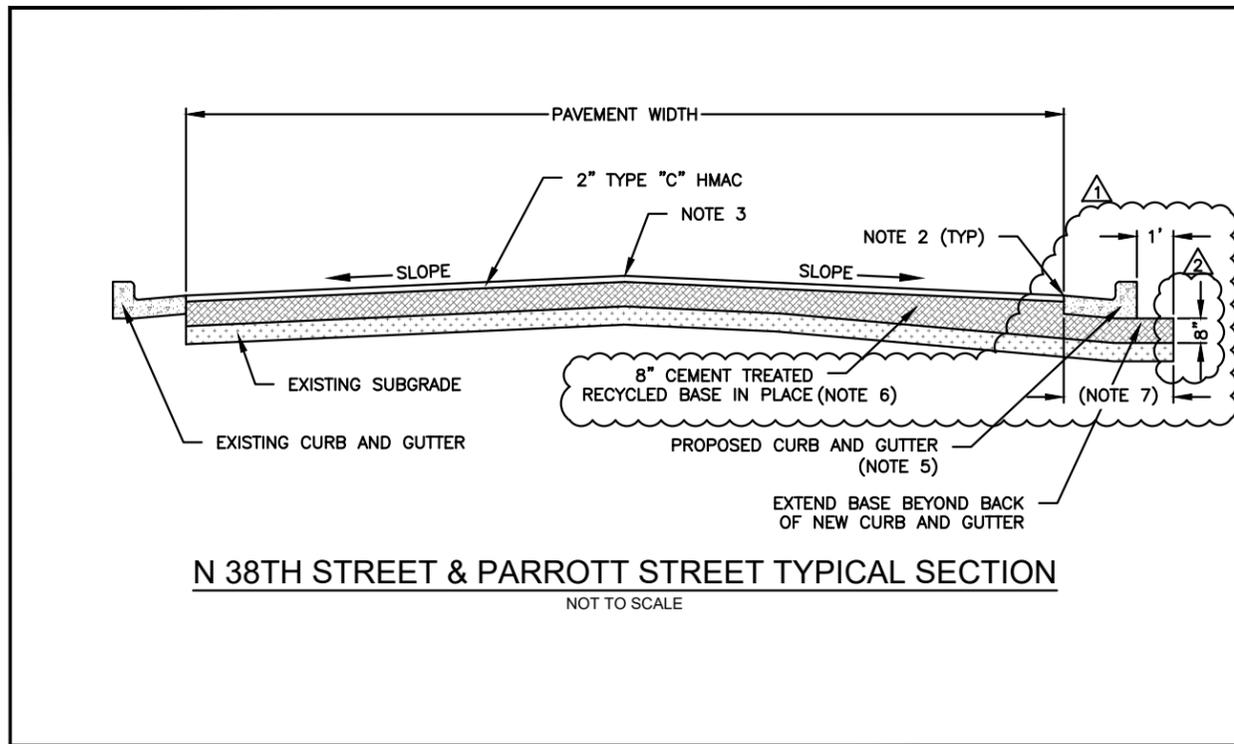


Design: MG Approved: JSH
Checked: JSH Project Mgr.: JSH

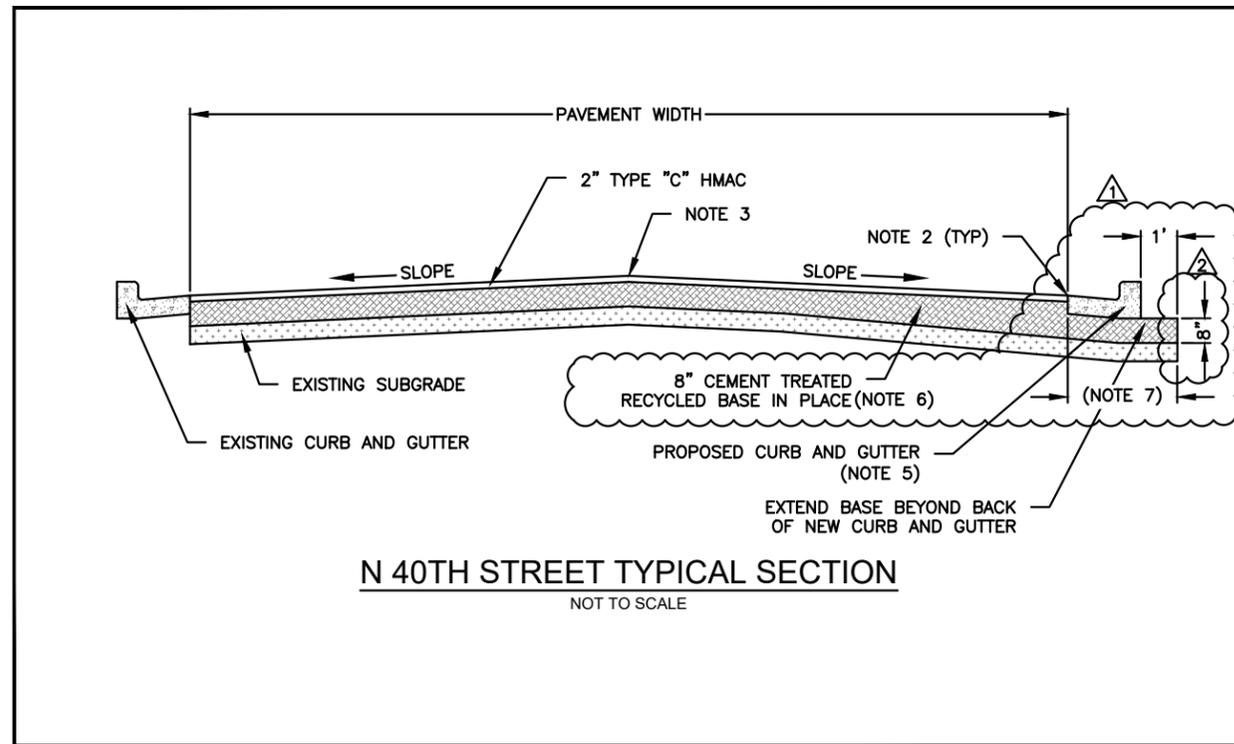
Project No: 18ST2003C Sheet No: C200
Issue Date: AUGUST 2020



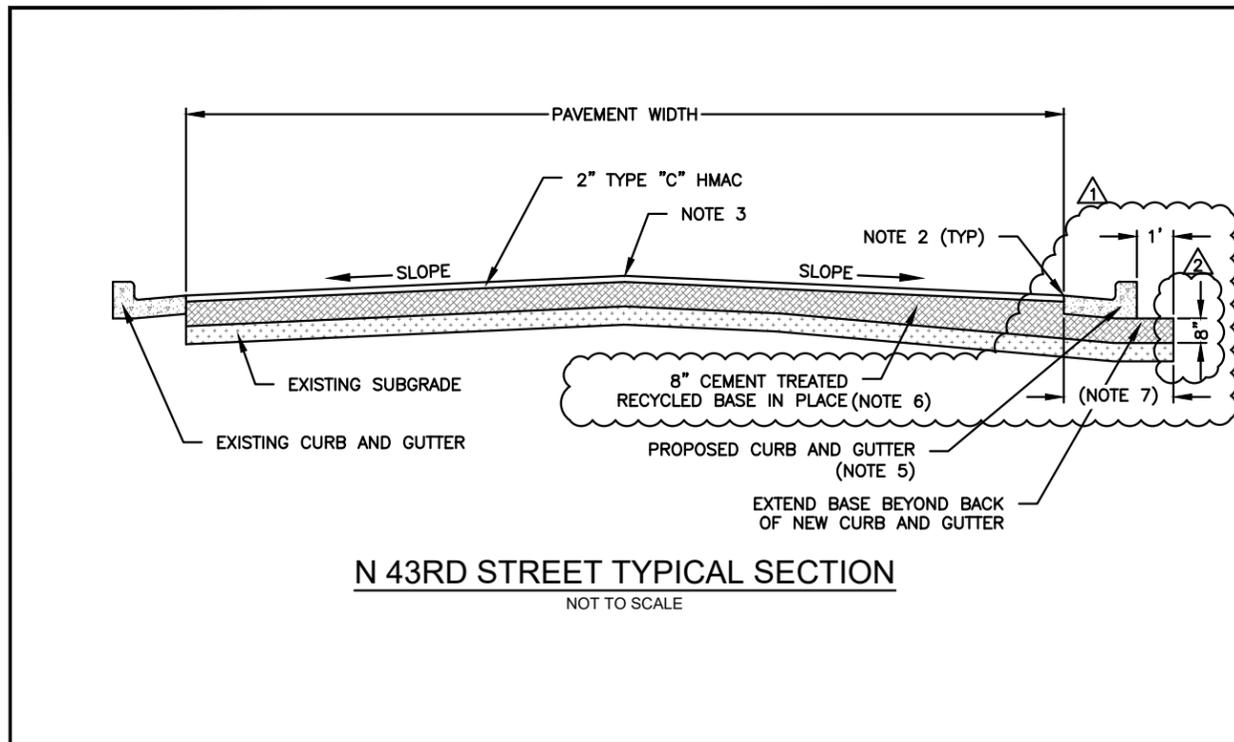
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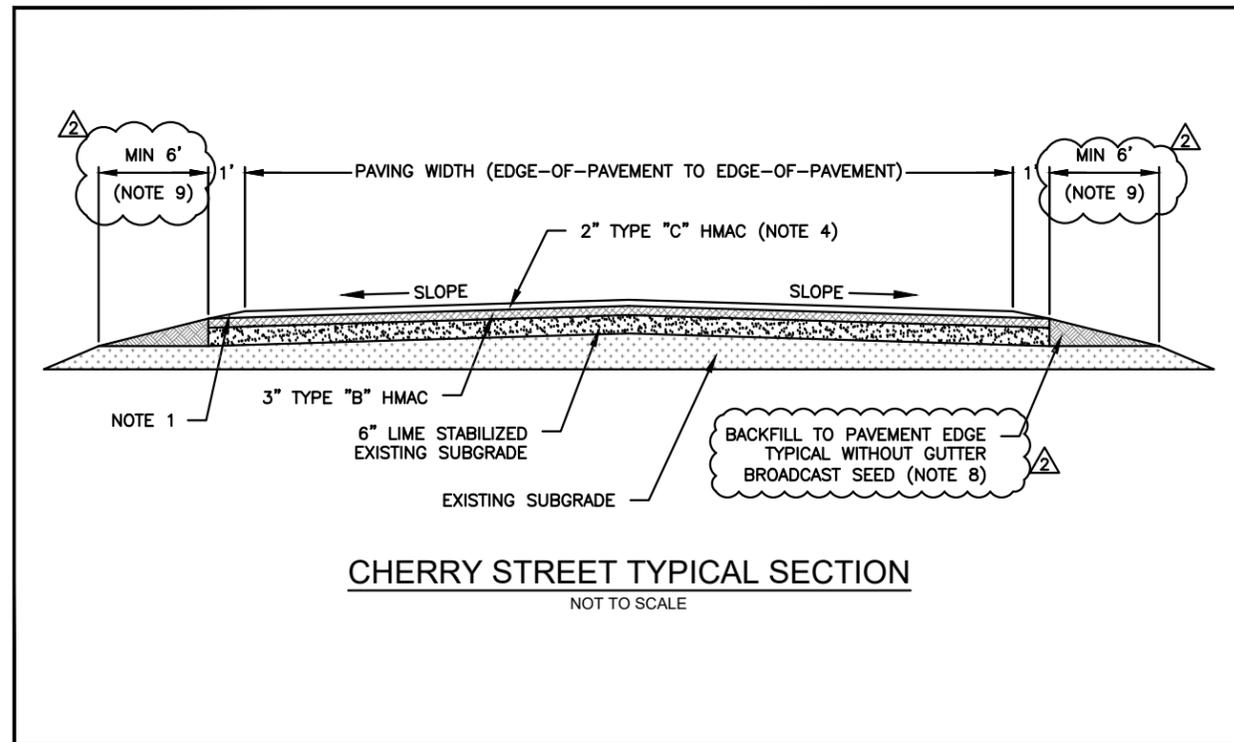
N 38TH STREET & PARROTT STREET TYPICAL SECTION
NOT TO SCALE



N 40TH STREET TYPICAL SECTION
NOT TO SCALE



N 43RD STREET TYPICAL SECTION
NOT TO SCALE



CHERRY STREET TYPICAL SECTION
NOT TO SCALE

NOTES (CONT'D):

6. IMPORTED GRAVEL BASE COURSE WILL BE REQUIRED IN ADDITION TO THE CEMENT TREATED RECYCLE BASE IN PLACE TO PROVIDE AN 8-INCH THICKNESS. SEE SPECIAL PROJECT PROVISIONS FOR ADDITIONAL REQUIREMENTS.
7. GRADING, EXCAVATION, AND HAUL OFF OF EXISTING MATERIAL AND INSTALLATION OF NEW CEMENT TREATED BASE SHALL BE CONSIDERED SUBSIDIARY TO THE PROPOSED CURB AND GUTTER BID ITEM. CONTRACTOR SHALL ASSUME THAT THE EXISTING BASE IS NOT SUITABLE FOR RECYCLING IN PLACE AND THAT THERE WILL NOT BE EXCESS MATERIAL FROM THE EXISTING ROADWAY. IMPORTED GRAVEL BASE COURSE (TREATED WITH CEMENT ONSITE), AS SPECIFIED IN THE SPECIAL PROJECT PROVISIONS, WILL BE REQUIRED.
8. CONTRACTOR SHALL BROADCAST SEED OVER 6 FOOT SHOULDER ON EACH SIDE OF THE STREET AND ALONG THE ENTIRE LENGTH OF THE STREET. ANY ADDITIONAL DISTURBED AREA BEYOND THE 6 FOOT SECTION SHALL ALSO RECEIVE BROADCASTED SEED. THE COST FOR ANY ADDITIONAL SEEDING SHALL BE SUBSIDIARY TO THIS BID ITEM. SEE THE SPECIAL PROJECT PROVISIONS AND TXDOT ITEM 164 FOR ADDITIONAL REQUIREMENT.
9. MATERIAL AND INSTALLATION OF 6' SECTION OF BACKFILL SHALL BE SUBSIDIARY TO THE LIME TREATMENT (SUBGRADE) BID ITEM.

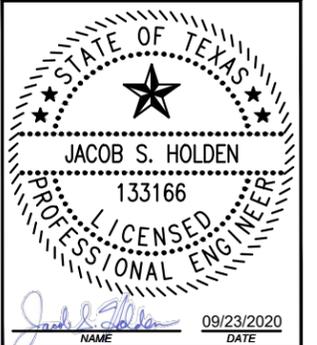
NOTES:

1. ANY EXISTING PAVEMENT BEYOND THE EXTENTS OF THE PROPOSED PAVEMENT SHALL BE REMOVED.
2. TOP OF PROPOSED PAVEMENT SHALL MATCH EXISTING OR PROPOSED EDGE OF GUTTER ELEVATION.
3. SEE PLANS FOR CENTERLINE ALIGNMENT AND FINISHED GRADE ELEVATIONS. IN GENERAL, THE PROPOSED CENTERLINE FINISHED GRADE ELEVATIONS SHALL MATCH EXISTING ELEVATIONS.
4. IN GENERAL, FOR CHERRY STREET, PROPOSED FINISHED GRADE ELEVATIONS OF 2 INCHES TYPE C LAYER ARE 2 INCHES HIGHER THAN EXISTING FINISHED GRADE ELEVATIONS. SEE PLANS FOR DETAILS.
5. SEE CITY OF WACO DETAILS FOR PROPOSED CURB AND GUTTER REQUIREMENTS.



**STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
TYPICAL STREET SECTIONS**

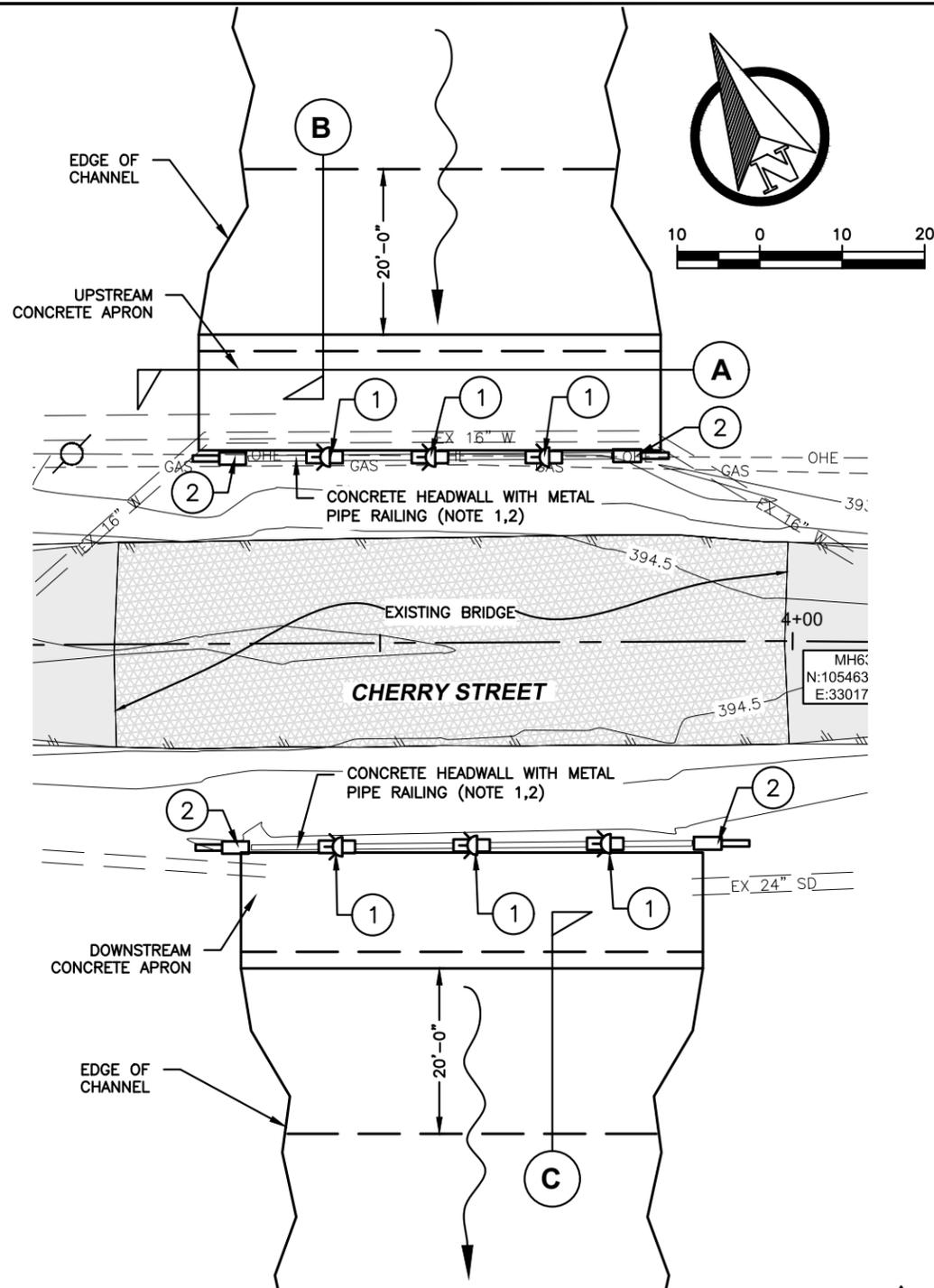
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Design: MLZ Approved: JSH
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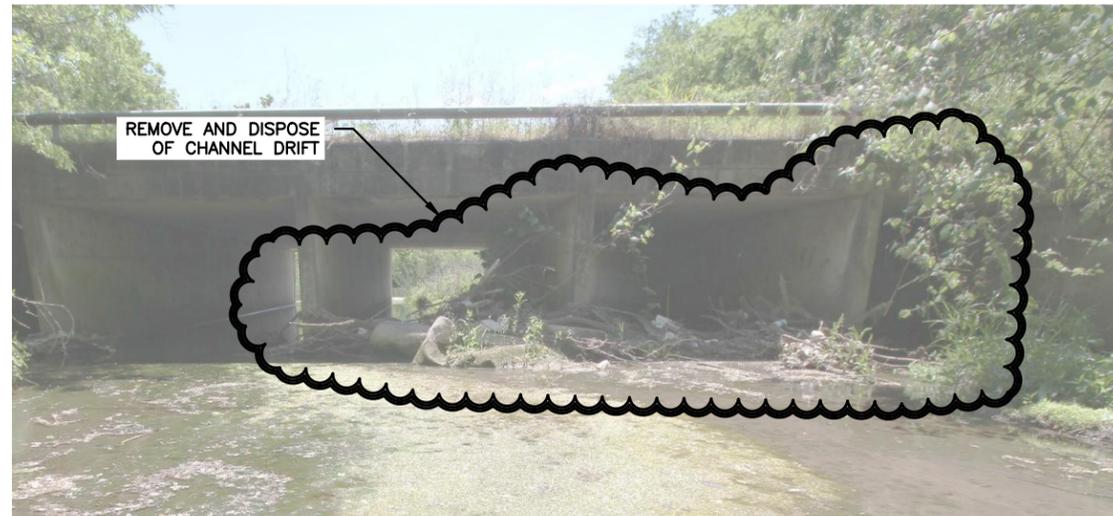
Project No: 18ST2003C Sheet No: **C418**
Issue Date: AUGUST 2020

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- NOTES:**
1. CONTRACTOR SHALL PAINT RAIL, POSTS, AND BASE PLATES AS REQUIRED IN THE SPECIAL PROJECT PROVISIONS. NOT USED
 2. CONTRACTOR SHALL ADD DELINEATORS AND OBJECT MARKERS TO BRIDGE AS SHOWN PER TXDOT DETAILS ON D+OM(5)-15. SEE SPECIAL PROJECT PROVISIONS FOR ADDITIONAL REQUIREMENTS.
 3. CONTRACTOR SHALL PROVIDE BEDDING MATERIAL PER TXDOT ITEM 432, TABLE 3.
 4. CONTRACTOR SHALL PROVIDE IN-PLACE PROTECTION RIP-RAP PER TXDOT ITEM 432, TABLE 1. RIP-RAP SHALL BE GROUDED.
 5. PRIOR TO ORDERING RIP-RAP AND BEDDING MATERIAL, CONTRACTOR SHALL DE-WATER BOTH 20 FOOT SECTIONS OF THE UPSTREAM AND DOWNSTREAM APRONS SO ENGINEER CAN VERIFY TYPE AND EXTENT OF PROPOSED REPAIR. DE-WATERING SHALL BE SUBSIDIARY TO RIP-RAP BID ITEM.

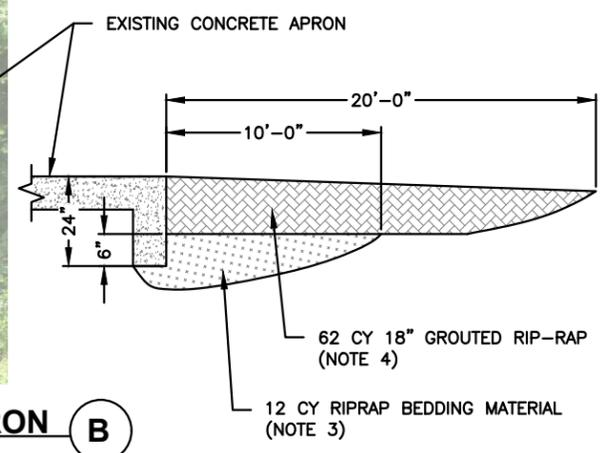
BRIDGE RAIL NOTES	
①	(6 TOTAL : 3 EACH BRIDGE EVENLY SPACED) INSTL DEM ASSM (D-SW) SZ 2 (BRF) GND (BI)
②	(4 TOTAL) INSTL OM ASSM (OM-2Y)(WV)(GND)



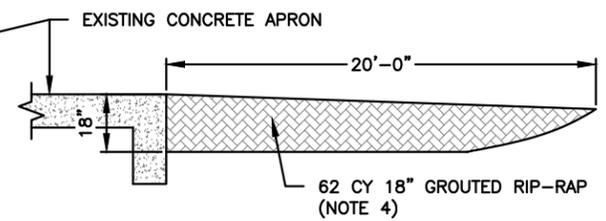
UPSTREAM VIEW (A)



UPSTREAM CONCRETE APRON (B)



DOWNSTREAM CONCRETE APRON (C)



PUBLIC WORKS

ENGINEERING DIVISION

**STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1**

CHERRY STREET BRIDGE DETAILS

NO.	REVISION	DATE
△	ADDENDUM NO. 2	09/23

Design: MLZ Approved: JSH
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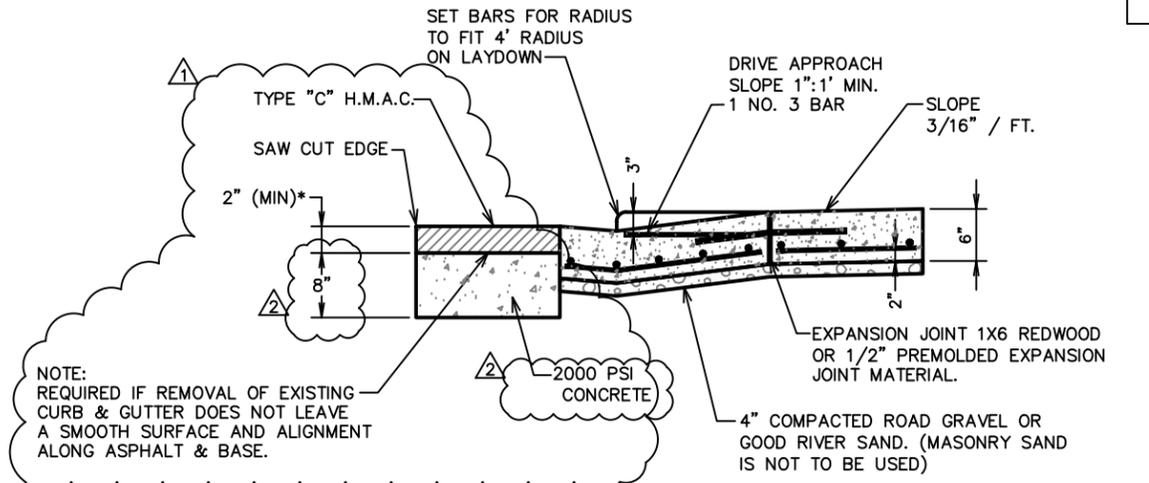
Project No: 18ST2003C	Sheet No. C419
Issue Date: AUGUST 2020	

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STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
CITY OF WACO STANDARD DETAILS
STREET TIE-IN
STANDARD VALLEY
CONCRETE CURB & GUTTER FILLET ST-12

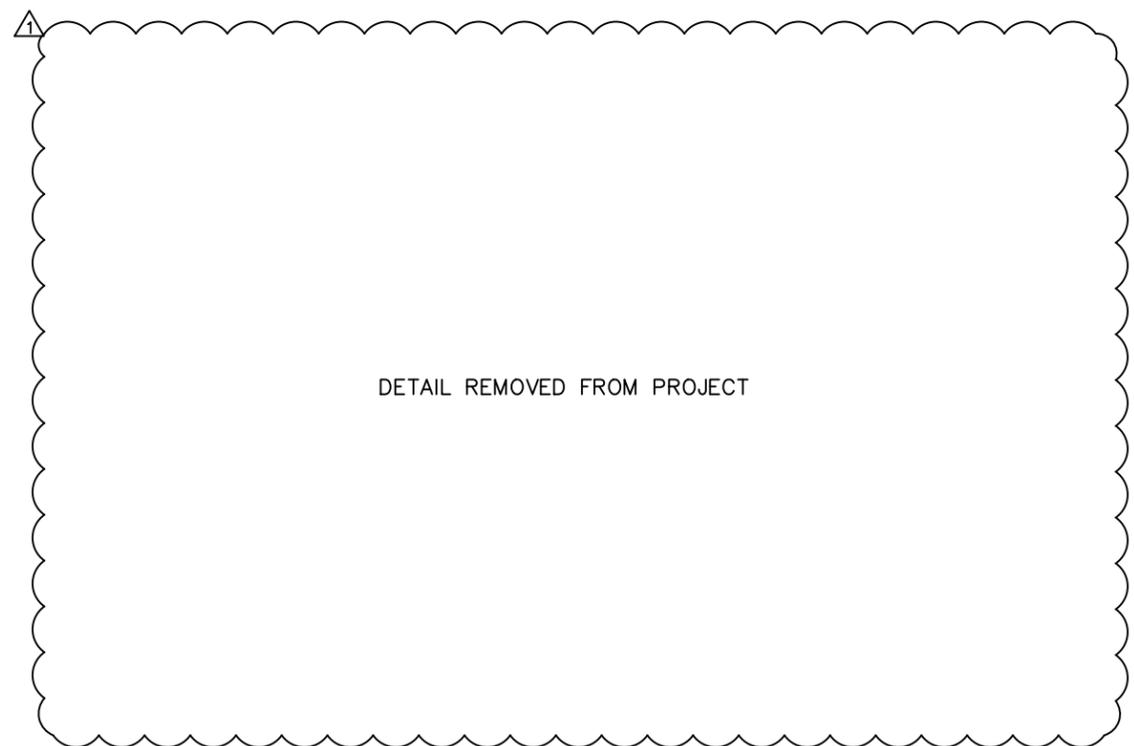
ST-12



NOTE:
REQUIRED IF REMOVAL OF EXISTING CURB & GUTTER DOES NOT LEAVE A SMOOTH SURFACE AND ALIGNMENT ALONG ASPHALT & BASE.

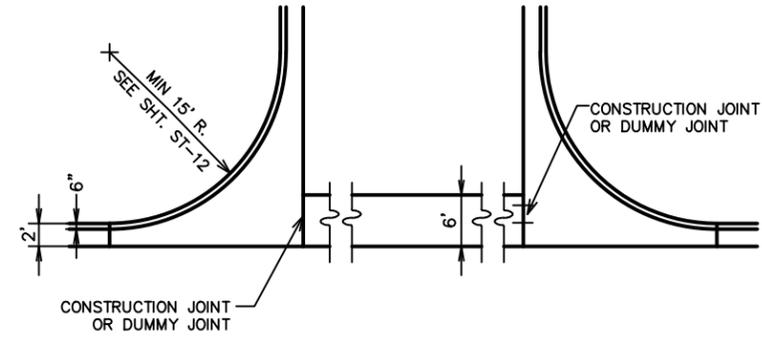
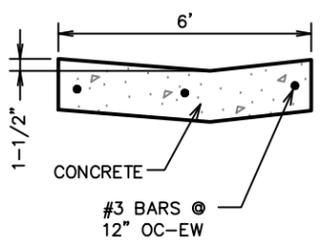
STREET TIE-IN

*TYPE "C" HMAC TIE IN SHALL ALSO BE USED FOR NEW VALLEY, FILLET, OR GUTTER ON EXISTING ASPHALT STREET

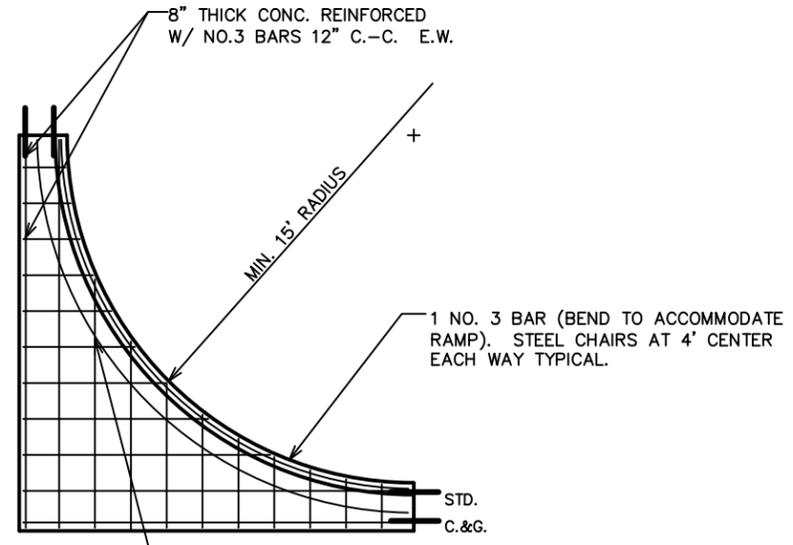


NOTE:
1. CURB & GUTTER TO BE PAID NOT USED FOR SEPARATELY FROM CONCRETE VALLEY AT THE CONTRACTOR UNIT PRICE FOR CURB & GUTTER.

- IF CURB RETURNS ARE NOT EXISTING VALLEY AND RETURNS SHALL BE MONOLITHIC WHEN CURB & GUTTER IS CALLED FOR.
- UPSTREAM RETURN IN VALLEY SHALL BE CONSTRUCTED SO WATER WILL NOT POND.
- VALLEY MAY BE PLACED IN TWO 1/2 SECTIONS.
- DEPTH OF CONCRETE VALLEY SHALL MATCH DEPTH OF PAVEMENT STRUCTURE INCLUDING THE SURFACING.



STANDARD VALLEY



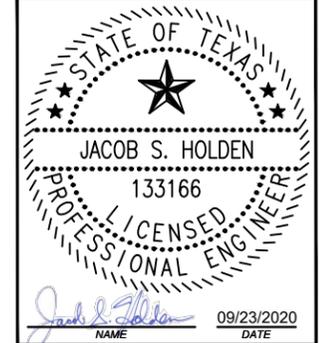
NOTE:
CURB RETURN & FILLET SHALL BE MONOLITHIC

CONCRETE CURB & GUTTER FILLET

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

REVISIONS			
NO.	COMMENTS	BY	DATE

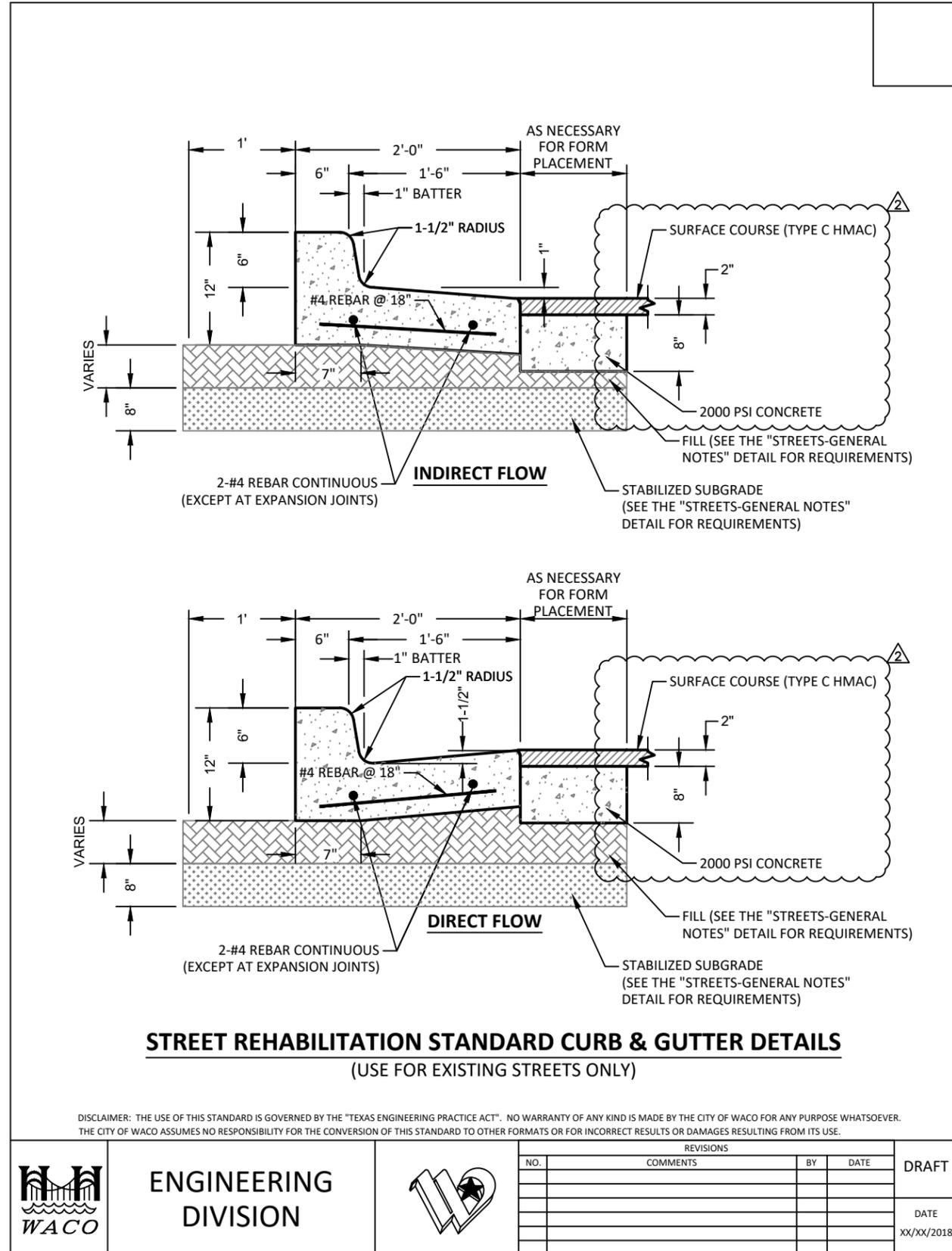
REVISIONS				DATE
NO.	COMMENTS	BY	DATE	
03	STANDARD VALLEY ADDED FROM ST-11; UPDATED	AG	07/28/2017	07/28/2017
02	REMOVE SEAL	DG	09/03/2014	
01	UPDATED	DG	10/01/2010	



Design: MLZ Approved: KLP
Checked: JSH Project Mgr.: JSH

Project No: 18ST2003C
Issue Date: AUGUST 2020
Sheet No: C801

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**STREET IMPROVEMENTS
2019 RECLAMATION PHASE 1
CITY OF WACO STANDARD DETAILS
STREET REHABILITATION STANDARD
CURB & GUTTER DETAILS**

NO.	REVISION	DATE
2	ADDENDUM NO. 2	09/23



Design: MLZ Approved: KLP
Checked: JSH Project Mgr.: JSH

Project No:	Sheet No.
18ST2003C	C802
Issue Date:	
AUGUST 2020	

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**ENGINEERING
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DATE
XX/XX/2018