

**CITY OF EL PASO, TEXAS
AGENDA SUMMARY FORM**



REVISED
10:23 am, Mar 05, 2026

DEPARTMENT / COUNCIL OFFICE:

AGENDA DATE:

PUBLIC HEARING DATE:

CONTACT PERSON NAME:

PHONE NUMBER:

2nd CONTACT PERSON NAME:

PHONE NUMBER:

DISTRICT(S) AFFECTED:

AGENDA ITEM:

ISSUE STATEMENT:

BACKGROUND:

COUNCIL OPTIONS:

COMMITTEE REVIEW AND/OR RECOMMENDATION:

COMMUNITY AND STAKEHOLDER OUTREACH (if applicable, as an attachment) – please include:

RELATED CITY POLICIES:

PRIOR COUNCIL ACTION:

LEGAL REVIEW:

Legal counsel reviewed as a part of Council packet

Legal counsel reviewed in advance of packet as an individual item

AMOUNT AND SOURCE OF FUNDING:

REPORTING OF CONTRIBUTION OR DONATION TO CITY COUNCIL:

NAME	AMOUNT (\$)

ATTACHMENTS:

FOR MORE INFORMATION:

*****REQUIRED AUTHORIZATION*****

SIGNATURE:

Gvette Hernandez

(If Agenda Summary Form is initiated by Purchasing, client department should sign also)

RESOLUTION

WHEREAS, on August 13, 2024, the City of El Paso (“City”) and ZTEX Construction, Inc. (“Contractor”) entered into Contract No. 2024-0472 Traffic Signal Improvements (“Project”); and

WHEREAS, the original contract amount for the Project was \$2,557,478.40 (“Contract Amount”); and

WHEREAS, the Project’s Scope of Work included the installation of school flashers, pavement striping, signage, landscaping, and concrete improvements at the intersection of Frontera Road and Roxbury Drive; and

WHEREAS, pursuant to the El Paso City Code, Section 12.20.190, when school flasher signals are requested, the applicant requesting said installation (“Applicant”) is responsible for the payment of 100% of the costs associated with the installation and must execute an agreement with City setting forth Applicant’s responsibilities; and

WHEREAS, at this time, Applicant has chosen not to proceed with an agreement for payment to the City; and

WHEREAS, due to the absence of a payment agreement with Applicant, City wishes to remove from the Project’s Scope of Work the installation of school flashers, pavement striping, signage, landscaping, and concrete improvements at the intersection of Frontera Road and Roxbury Drive and seeks approval of a deductive change order in the amount of \$436,798.22 from the original Contract Amount.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

1. THAT the City Council approves the attached deductive change order in the amount of \$436,798.22 to Contract No. 2024-0472 Traffic Signal Improvements. The new amended contract amount, including this change order and all previous change orders, is \$1,731,323.61. There is no change in contract time resulting from this change order.
2. THAT the City Engineer is authorized to sign the attached deductive change order and any documents necessary to carry out the intent of this Resolution.

(Signatures begin on the following page)

APPROVED THIS ___ DAY OF _____, 2026.

CITY OF EL PASO:

Renard U. Johnson
Mayor

ATTEST:

Laura D. Prine
City Clerk

APPROVED AS TO FORM:



Roberta Brito
Senior Assistant City Attorney

APPROVED AS TO CONTENT:



Yvette Hernandez, P.E.
City Engineer / Deputy City Manager

CITY OF EL PASO CHANGE ORDER and CHANGE QUANTITY NOTICE LOG

Project Name: 2024-0472 Traffic Signal Improvements
 Solicitation (Contract) No.: 2024-0472
 PEDFY23016
 PCP23D1TSGNLPN7
 PCP23D1FLSHRRF1
 Project Number: PCP23D3TSGNLHW6
 PO No.: 2500000161
 Contractor: ZTEX

Original Contract	
Notice to Proceed:	8/25/2025
Substantial Completion Period:	187 Consecutive Calendar Days
Substantial Completion Date:	2/28/2026
Final Completion Period:	30 Consecutive Calendar Days
Final Completion Date:	3/30/2026
Contract Amount:	\$ 2,557,478.40
Contingency Budget:	\$ 281,005.54

Modified Contract	
Total Days Added:	20 Consecutive Calendar Days
Substantial Completion Period:	207 Consecutive Calendar Days
Substantial Completion Date:	3/20/2026
Final Completion Date:	4/19/2026
Total Cost Added:	-\$826,154.79
Remaining Contingency:	\$1,107,160.33
Change Order Percentage:	-32.71%

CO #	Date	Description	Days	Cost
1	5/16/2025	1. Cellular Modem	0	-\$453,371.60
2	7/29/2025	Paseo Del Norte and West Towne Traffic Signals Redesign	20	\$53,524.62
3	12/5/2025	Frontera and Roxbury	0	-\$436,798.22
4	1/0/1900	0	0	\$0.00
5	1/0/1900	0	0	\$0.00
6	1/0/1900	0	0	\$0.00
7	1/0/1900	0	0	\$0.00
8	1/0/1900	0	0	\$0.00
9	1/0/1900	0	0	\$0.00
10	1/0/1900	0	0	\$0.00
11	1/0/1900	0	0	\$0.00
12	1/0/1900	0	0	\$0.00
13	1/0/1900	0	0	\$0.00
14	1/0/1900	0	0	\$0.00
15	1/0/1900	0	0	\$0.00
16	1/0/1900	0	0	\$0.00
17	1/0/1900	0	0	\$0.00
18	1/0/1900	0	0	\$0.00
19	1/0/1900	0	0	\$0.00
20	1/0/1900	0	0	\$0.00

SUBTOTAL FOR CHANGE ORDERS: 20 -\$836,645.20

CQN #	Date	Description	Days	Cost
1	11/6/2025	This CQN is required to adjust and reflect installed quantities. Utilization of existing bid items was determined through the contracted performance period. -Contract bid item No. 618-6030 - CONDT (PVC)(SCH 40)(3")BORE, complete is 120 LF, but actual quantity bored by contractor is	0	\$10,490.41
2	1/0/1900	0	0	\$0.00
3	1/0/1900	0	0	\$0.00
4	1/0/1900	0	0	\$0.00
5	1/0/1900	0	0	\$0.00
6	1/0/1900	0	0	\$0.00
7	1/0/1900	0	0	\$0.00
8	1/0/1900	0	0	\$0.00
9	1/0/1900	0	0	\$0.00
10	1/0/1900	0	0	\$0.00

SUBTOTAL FOR CHANGE QUANTITY NOTICES: 0 \$10,490.41

CITY OF EL PASO CONSTRUCTION CHANGE ORDER

CONSTRUCTION CHANGE ORDER NO.: 3 DATE: December 5, 2025 SCOPE CHANGE
 PROJECT: 2024-0472 Traffic Signal Improvements SOLICITATION #: 2024-0472 CONSTRUCTION CHANGE

Original Contract Amount: \$ <u>2,557,478.40</u>	Original Contract Substantial Completion Date: <u>2/28/2026</u>
Net Change by previous Change Orders: \$ <u>(399,846.98)</u>	Total days added due to Change Orders and CQN's: <u>20</u>
Net Change by previous Construction Quantity Notices: \$ <u>10,490.41</u>	Total days added for this Change Order: <u>0</u>
New Amended Contract Amount: \$ <u>1,731,323.61</u>	New Substantial Completion Date: <u>3/20/2026</u>
Total amount added for this Change Order: \$ <u>(436,798.22)</u>	
Change Order Percentage: <u>-32.71%</u>	

Existing Drawing Reference:

Sheets C60 - C70 dated June 15, 2023.

Existing Specification Reference:

N/A

New Drawings/Specifications Reference:

N/A

Detailed Scope of Work of the Change Order:

Frontera and Roxbury:

Description:

All work detailed on sheets C60-C70, which includes the installation of school flashers, pavement striping, signage, landscaping, and concrete improvements (sidewalks, curbs, and ADA ramps), shall be excluded from the scope of work of the 2024-0472 Traffic signals project. This revision results in a credit to the City of El Paso in the net amount of \$461,450, with no impact on the contract time.

The contractor shall deliver all materials previously ordered for this portion of the work to the Streets and Maintenance Department. These materials include:

1. 12" LED Yellow Ball with 12" 1-Section Housing & Visor
2. 1-Section Back Plates (Flat Black)
3. SMA-24-80 Traffic Signal Pole (24' Arm)
4. SMA-36-80 Traffic Signal Pole (36' Arm)
5. Anchor Bolts Ø1-½" x 40" (17" B.C.) for SMA-24-80
6. Anchor Bolts Ø1-¾" x 46" (19" B.C.) for SMA-36-80
7. Enclosure for Electrical Service Type D 120/240 060 (NS)(GS)(N)GC(O) [Enclosure Only]
8. Material Handling and Delivery

These material have a cost impact in the net amount of \$24,652.38, with no impact to contract time.

This amount will be covered by the credit and will result in a credit to the City of El Paso in the net amount of \$436,798.22.

Unless specifically noted, this change order addresses all compensation for time and money including all direct and indirect costs associated with the scope of work noted above.

CONSECUTIVE CALENDAR DAYS ADDED TO COMPLETION TIME: 0 TOTAL CHANGE ORDER AMOUNT: -\$436,798.22

CONTRACTOR (OWNER/AUTHORIZED OWNER REPRESENTATIVE)

I, Genaro Roldan, Vice President, of ZTEX agree and accept the terms and conditions of this change order.

Signature: _____ Date: 01/12/2026

CITY OF EL PASO (CITY ENGINEER)

I, Yvette Hernandez, P.E. of the City of El Paso hereby authorize and direct the Contractor to proceed with additional work as described in this form.

Signature: Yvette Hernandez Date: 2/26/26

CITY OF EL PASO CONSTRUCTION CHANGE ORDER- Pg. 2

CONSTRUCTION CHANGE ORDER NO.: 3 DATE: December 5, 2025 SCOPE CHANGE
 PROJECT: 2024-0472 Traffic Signal Improvements SOLICITATION #: 2024-0472 CONSTRUCTION CHANGE

Method Utilized for Implementing change:

<input checked="" type="checkbox"/>	Unit Bid Prices	✓
<input type="checkbox"/>	Lump Sum	
<input type="checkbox"/>	Actual Cost (Force Account)	

Identified by: CID Contractor User Dept.

Type of Change Order: User Request Error & Omission Value Engineering CID Initiated
 Differing Site Contractor Initiated

Contractors Proposal Cost: \$24,652.38 ✓
 Final Negotiated Amount: (\$436,798.22) ✓

Time Requested: 0 Consecutive Calendar Days ✓
 Time Justified: 0 Consecutive Calendar Days

Reason/Justification for Change Order:

During pre-construction coordination, CID was informed that one requirement for installing school flashers is a formal reimbursement agreement with the school requesting signals as per Texas code of Ordinances, chapter 12, section 12.20.190. It was confirmed that there was no agreement between the City and the school for the reimbursement. The school has chosen not to proceed with this agreement at this time. Therefore, it has been decided to remove all work outlined on sheets C60 to C70 from the scope of work for the 2024-04725 Traffic Signal Improvements project.

*Price and Time:
 The PM used the contract bid items/bid tab and the contractor's material invoices to compare the total credit owed against the charges for materials already delivered. The contractor submitted a proposal showing a total credit of \$461,450.60 and \$24,652.38 in costs for the delivered materials, resulting in the net credit of \$436,798.22 with no additional time to the contract. The PM determined the proposal was reasonable based on a comparison of the contractor's proposal

Attachments: RFI Final Contractor proposal Schedule
 RFP Budget Status Report (PeopleSoft) Change Order Log
 ASI (if applicable) Independent Cost Estimate Utility Commitment Letter (if applicable)

AS A RESULT OF THIS CHANGE ORDER, PLEASE MAKE THE FOLLOWING ADJUSTMENT TO THE PURCHASE ORDER:

PO LINE	ADDED AMOUNT	ACCOUNT
3	\$ (436,798.22)	580272

TOTAL NET CHANGE TO PURCHASE ORDER: -\$436,798.22 **C.O. Amount** -\$436,798.22

Additional Funding/Direction:

Project Manager: Nancy Lopez 12/05/2025
 Nancy Lopez Date

Division Manager: Alondra Gurrola 12/9/2025
 Alondra Gurrola Date

Assistant Director: Gilbert Guerrero 12/9/2025
 Gilbert Guerrero Date



CAPITAL IMPROVEMENT DEPARTMENT

Request for Proposal

July 17, 2025

MAYOR

Renard U. Johnson

ZTEX Construction Inc.
Attn: Ezri Navarro
1326 Henry Brennan Dr.
El Paso, Texas 79936

CITY COUNCIL

District 1

Alejandra Chávez

Subject: 2024-0472 Traffic Signals – RFP #4 Frontera and Roxbury School Flashers.

Dear Mr. Navarro,

District 2

Dr. Josh Acevedo

Due to unforeseen circumstances, it has been decided to remove from the scope of work the installation of the school flashers for the Frontera and Roxbury location (Base bid 3). You are requested to submit a cost/credit proposal by 4:00 PM on July 31, 2025, for the following:

District 3

Deanna M. Rocha

District 4

Cynthia Boyar Trejo

Deductive Scope of work:

District 5

Ivan Niño

1. Removal from the scope of work all work outlined on Sheets C60-C70, related to the installation of the school flashers at Frontera and Roxbury.

District 6

Art Fierro

Existing drawings reference:

District 7

Lily Limón

1. Sheets C60-C70 out of C137 dated June 15, 2023, and January 4, 2024.

District 8

Chris Canales

Your proposal shall contain a complete itemized breakdown in sufficient detail to permit an analysis of all material ordered, labor, equipment, subcontractor costs (if applicable), and markups. State additional time required, if necessary. Justify your request with a description of the delays that you anticipate. Support your position with a marked-up progress chart depicting the impact of this proposed change on the original contract work.

CITY MANAGER

Dionne Mack

Sincerely,

Nancy Lopez – Engineer Associate

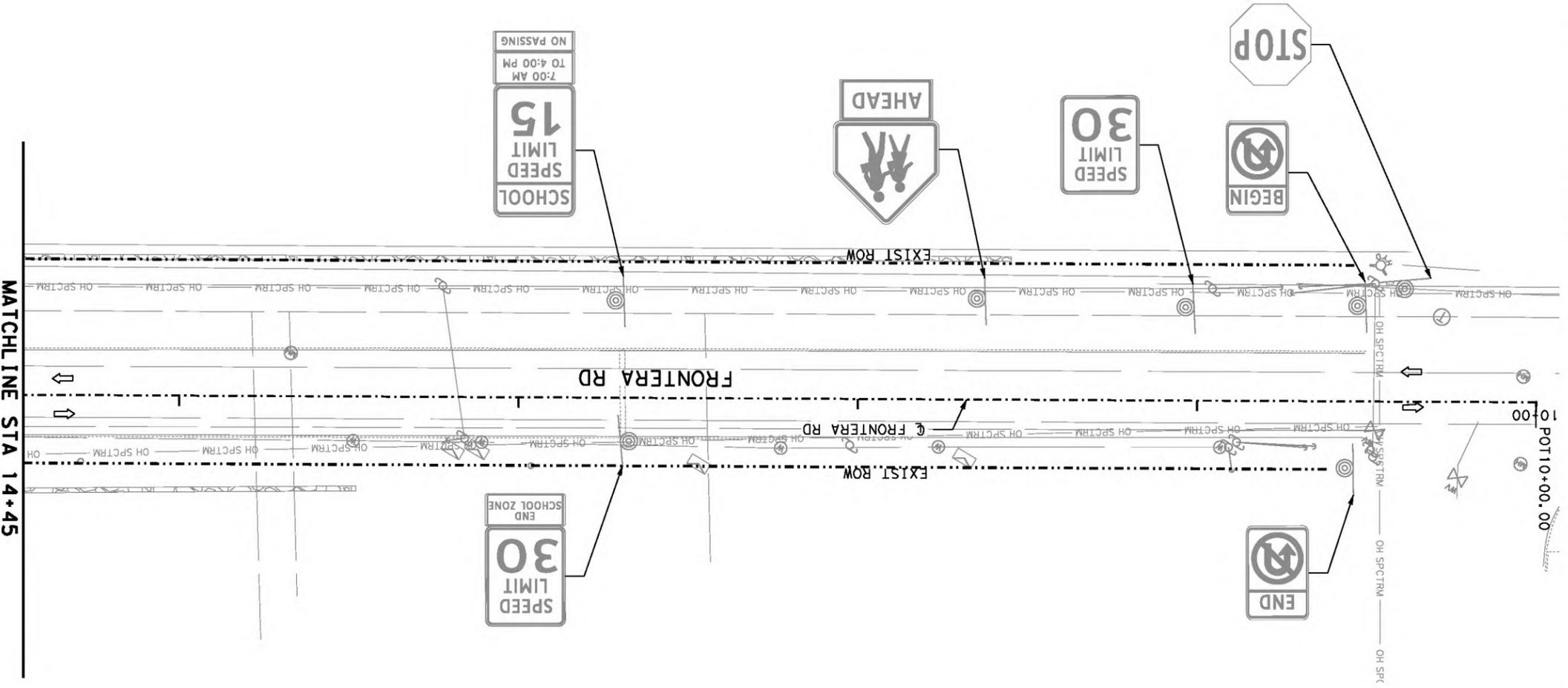
Capital Improvement Department | 218 N. Campbell | El Paso, TX 79901
C: (915) 979-7954 | Email: Lopezni@elpasotexas.gov

Yvette Hernandez, P.E., – City Engineer

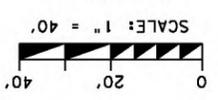
City 2 | 218 N. Campbell, 2nd Floor | El Paso, Texas 79901 | (915) 212-0065



DELIVERING EXCEPTIONAL SERVICES



- LEGEND**
- ⊙ EXISTING SIGN
 - ⇨ TRAFFIC FLOW
 - ⊕ BENCHMARK
 - ⊙ IRRIGATION CONTROL VALVE
 - ⊙ SANITARY SEWER MANHOLE
 - ⊙ TELEPHONE MANHOLE
 - ⊙ TELEPHONE BOLLARD
 - ↑ GUYWIRE
 - ⊙ FTYRE HYDRANT
 - ⊙ WATER METER
 - ⊙ LIGHT POLE
 - ⊙ WATER VALVE
 - ⊙ POWER POLE
 - ⊙ CITY MONUMENT
 - ⊙ MAILBOX
 - ⊙ WATER MANHOLE



238752
 SHEET C 60 OF C 137

BASE BID 3:
 FRONTERRA ROAD
 NEAR ROXBURY
 EXISTING
 CONDITIONS

1507 N. MESA, STE #208 EL PASO, TX 79902
 PHONE: (915) 313-3880

F-12040

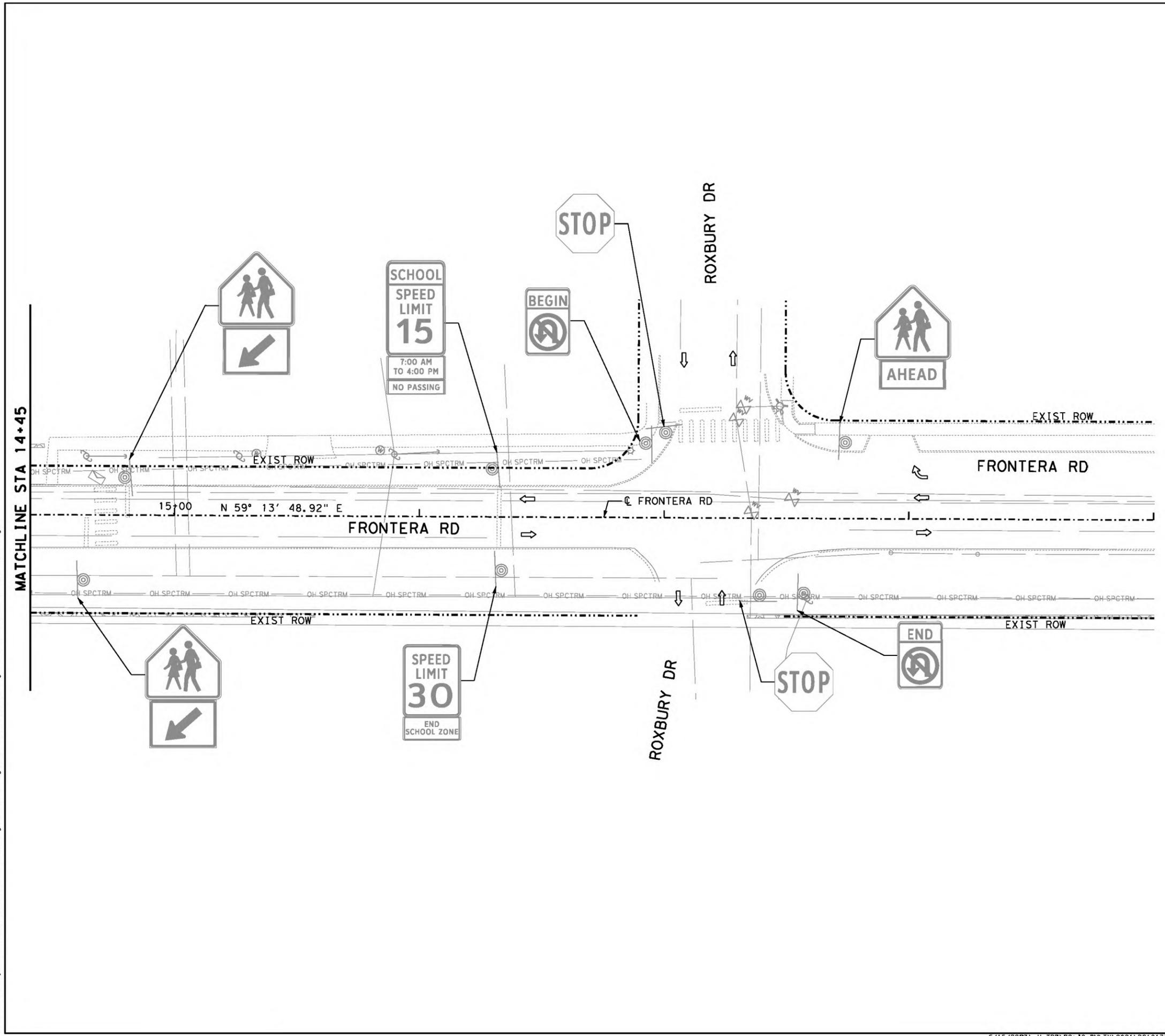
STREET & MAINTENANCE

PROJECT NAME
 INSTALLATION
 OF TRAFFIC SIGNALS

DATE	DESIGN BY	DATE	CHKD BY
06/15/2023	EDUARDO LEISMA		
DATE	APPD BY	DATE	APPD BY

DATE	REVISIONS
DATE	REVISIONS

4:59:40 PM
6/15/2023
P:_V-TPD\Projects\TX\2021\0210137TX.10\1_Design\500_CADD\dgn\02_Plan Files\08_signal\C_XXX_S_LCL_FRONTERA_RD_02.dgn



- LEGEND**
- EXISTING SIGN
 - TRAFFIC FLOW
 - BENCHMARK
 - IRRIGATION CONTROL VALVE
 - SANITARY SEWER MANHOLE
 - TELEPHONE MANHOLE
 - TELEPHONE BOLLARD
 - GUYWIRE
 - Fyre HYDRANT
 - WATER METER
 - LIGHT POLE
 - WATER VALVE
 - POWER POLE
 - CITY MONUMENT
 - MAILBOX
 - WATER MANHOLE

REFERENCES - BENCHMARKS

FILE:	
DATE:	
REVISIONS:	

ENGINEER'S SEAL

SCALE

HOR. SCALE:	1" = 40'
VER. SCALE:	1" = 10'

DATE: 01/26/23
DESIGN BY: [Signature]
DRAWN BY: [Signature]
CHKD. BY: [Signature]
APPD. BY: [Signature]

PROJECT NAME
INSTALLATION OF TRAFFIC SIGNALS

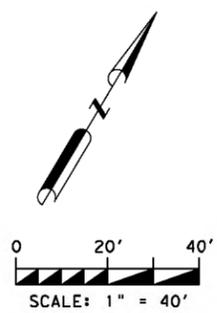
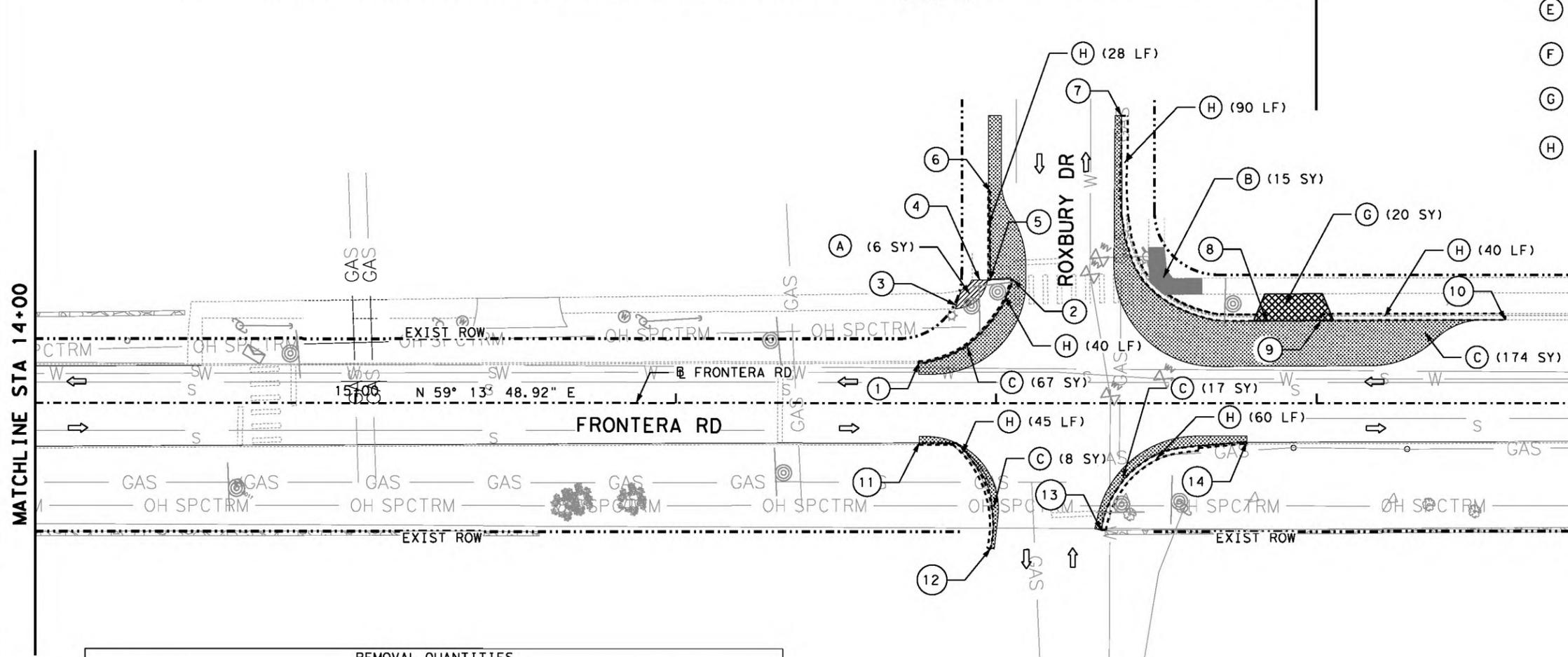
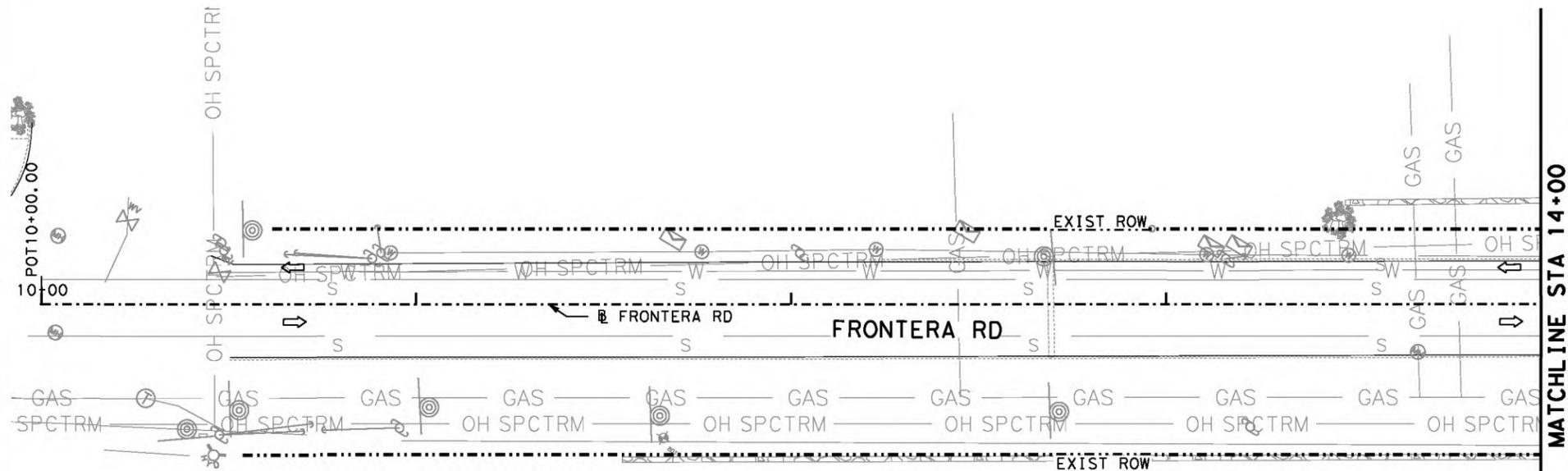
STREET & MAINTENANCE

1501 N. MESA STE #200, EL PASO, TX 79902
PHONE: (817) 313-3680
F-12040

SHEET TITLE
BASE BID 3 - FRONTERA ROAD NEAR ROXBURY DRIVE EXISTING CONDITIONS

SHEET
C 61 of C 137

238752



LEGEND

- (A) [Hatched Pattern] REMOVE CONCRETE SIDEWALK
- (B) [Solid Grey] REMOVE CONCRETE WHEELCHAIR RAMP
- (C) [Cross-hatched] REMOVE ASPHALT PAVEMENT
- (D) [Brick Pattern] REMOVE LANDSCAPE
- (E) [Grid Pattern] REMOVE MISCELLANEOUS
- (F) [Hexagonal Pattern] REMOVE CONCRETE PAVEMENT
- (G) [Diagonal Cross-hatch] REMOVE CONCRETE DRIVEWAY
- (H) [Dashed Line] REMOVE CONCRETE CURB & GUTTER
- [Dotted Line] EXIST ROW
- [Dashed Line] EXIST CURB & GUTTER
- [Arrow] TRAFFIC FLOW
- [Valve Symbol] EXIST WATER VALVE
- [Pole Symbol] EXIST POWER POLE
- [Hydrant Symbol] EXIST FIRE HYDRANT
- [Sign Symbol] EXIST SIGN

ITEM	REMOVAL QUANTITIES DESCRIPTION	UNIT	QTY
104 6015	REMOVING CONC (SIDEWALKS)	SY	6
104 6017	REMOVING CONC (DRIVEWAYS)	SY	20
104 6029	REMOVING CONC (CURB OR CURB & GUTTER)	LF	303
104 6032	REMOVING CONC (WHEELCHAIR RAMP)	SY	15
105 6069	REMOVING STAB BASE & ASPH PAV (4" - 6")	SY	266

REMOVAL LIMITS		
NUMBER	STATION	OFFSET
1	16+75.93	12.52' LT
2	17+05.36	38.48' LT
3	16+88.18	32.34' LT
4	16+94.97	38.37' LT
5	16+98.12	38.39' LT
6	16+98.14	66.06' LT
7	17+39.08	89.55' LT
8	17+84.30	25.58' LT
9	18+01.40	25.76' LT
10	18+58.76	25.98' LT
11	16+76.05	12.34' RT
12	16+98.28	45.21' RT
13	17+32.75	39.50' RT
14	17+78.16	12.12' RT

REFERENCES - BENCHMARKS

FILE	
DATE	
REVISIONS	

ENGINEER'S SEAL

SCALE

HOR. SCALE	1" = 40'
VER. SCALE	1" = 10'

DATE: 01/26/23
DESIGN BY: EP
DRAWN BY: EP
CHKD. BY: LL
APP. BY: LL

PROJECT NAME

INSTALLATION OF TRAFFIC SIGNALS

STREET & MAINTENANCE

1507 N. MESA STE #200, EL PASO, TX 78902
PHONE: (817) 313-3680

SHEET TITLE

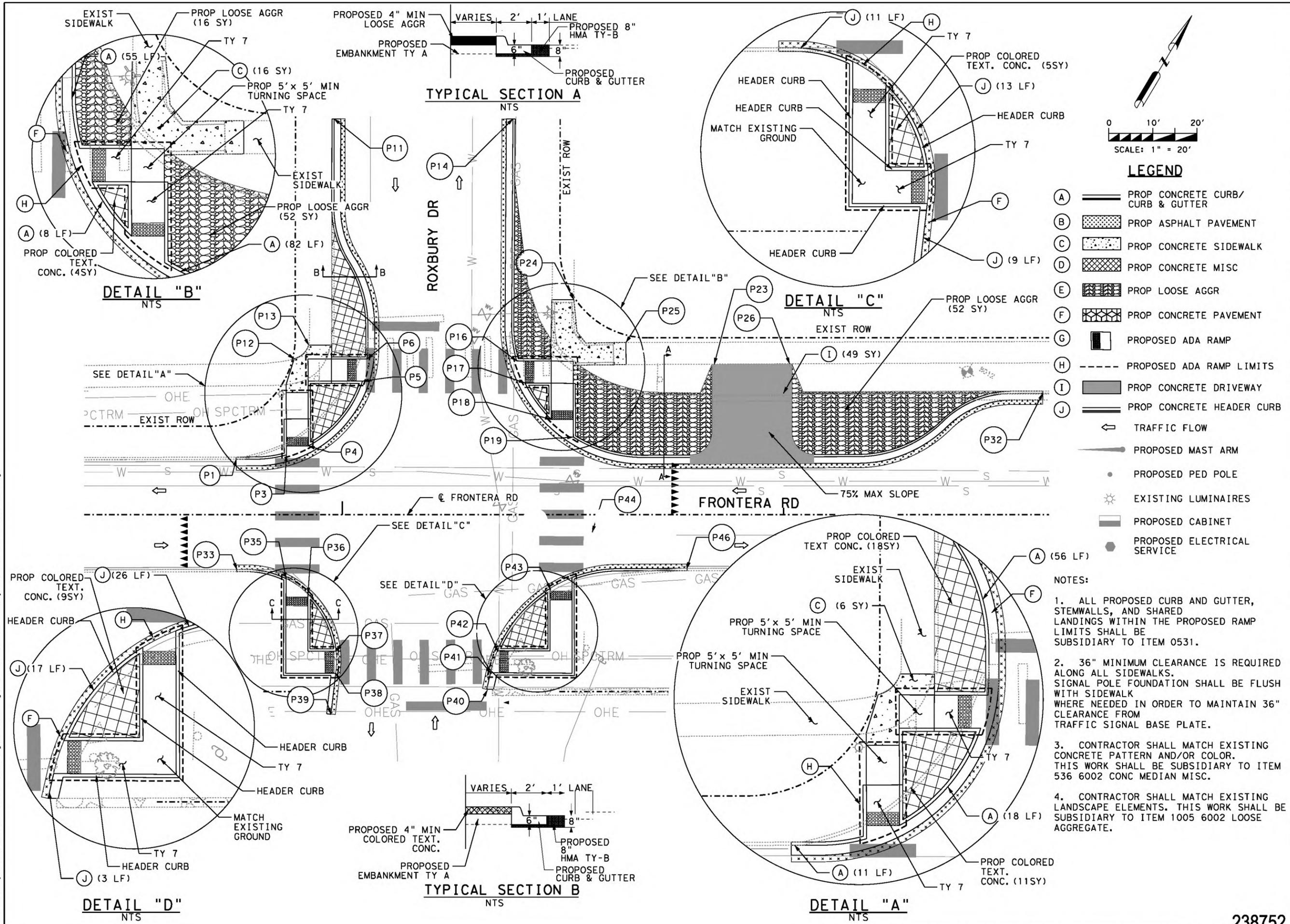
BASE BID 3- FRONTERA NEAR ROXBURY REMOVAL LAYOUT

SHEET

C 62 of C 137

238752

5:00:08 PM
 6/15/2023
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TYPICAL SECTION A
NTS

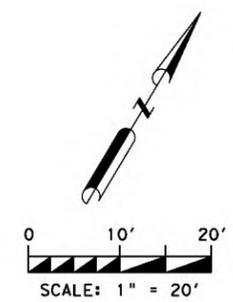
TYPICAL SECTION B
NTS

DETAIL "C"
NTS

DETAIL "B"
NTS

DETAIL "D"
NTS

DETAIL "A"
NTS



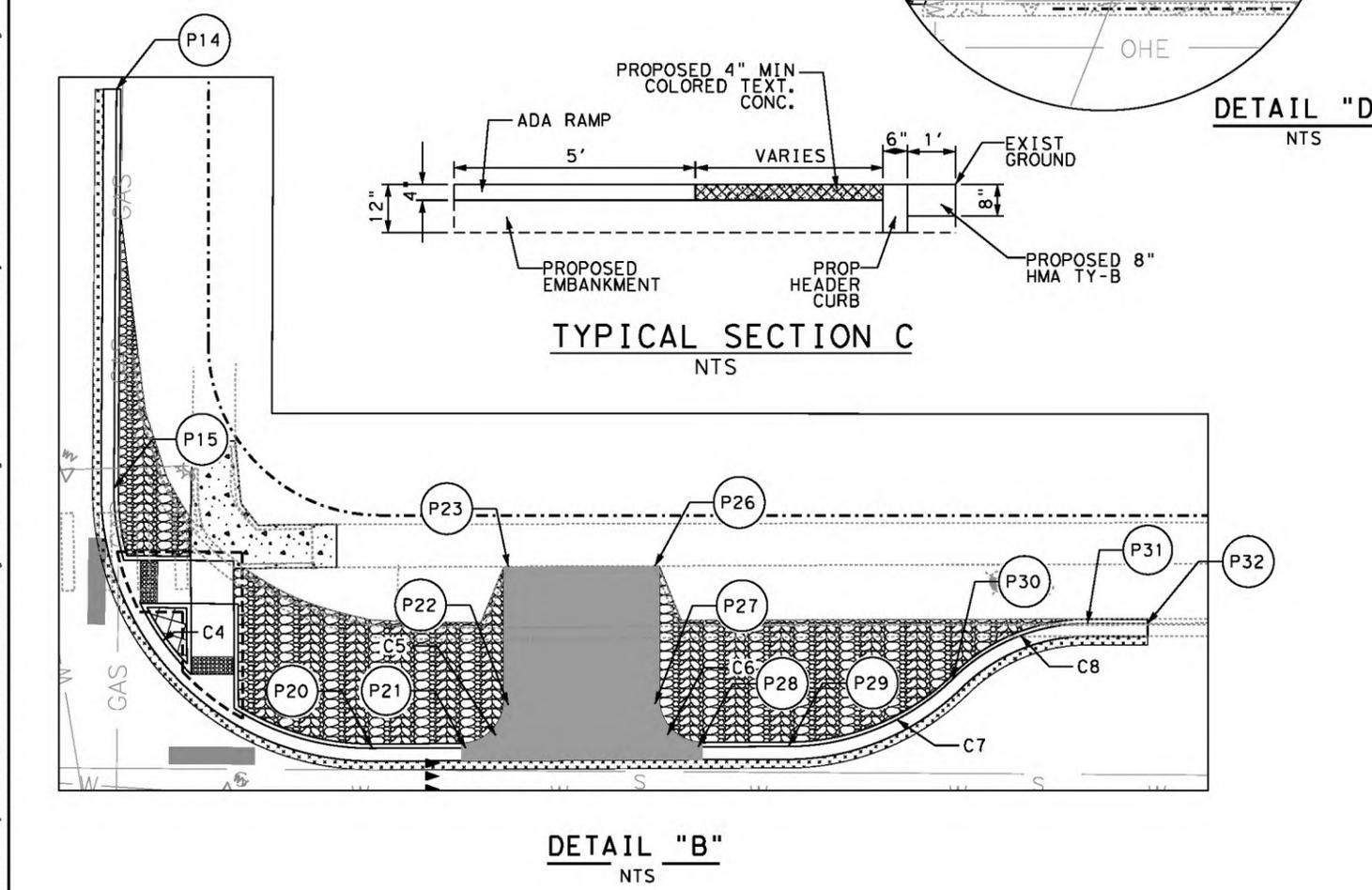
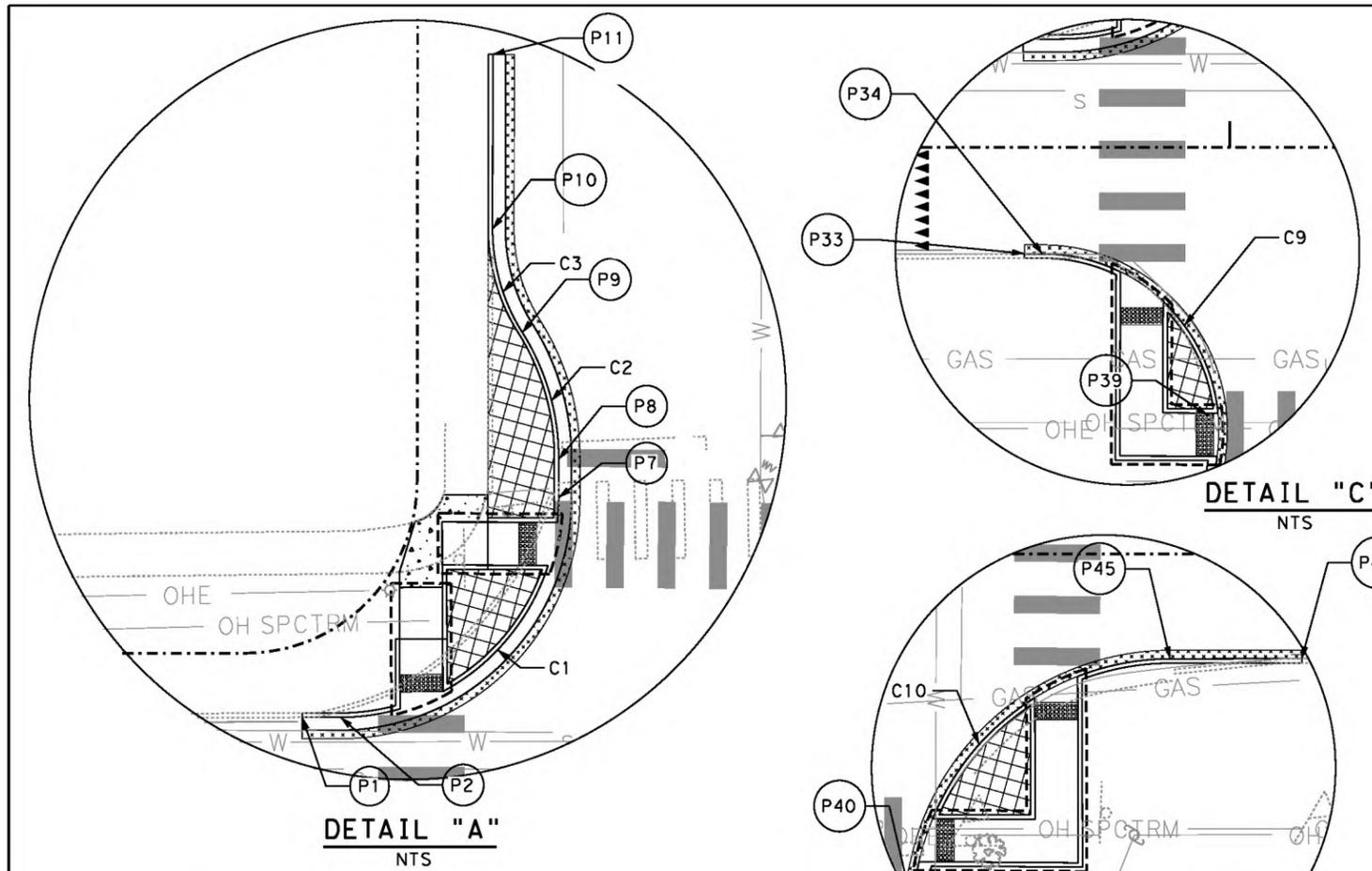
LEGEND

- (A) ——— PROP CONCRETE CURB/
CURB & GUTTER
- (B) [Pattern] PROP ASPHALT PAVEMENT
- (C) [Pattern] PROP CONCRETE SIDEWALK
- (D) [Pattern] PROP CONCRETE MISC
- (E) [Pattern] PROP LOOSE AGGR
- (F) [Pattern] PROP CONCRETE PAVEMENT
- (G) [Symbol] PROPOSED ADA RAMP
- (H) [Symbol] PROPOSED ADA RAMP LIMITS
- (I) [Pattern] PROP CONCRETE DRIVEWAY
- (J) ——— PROP CONCRETE HEADER CURB
- [Arrow] TRAFFIC FLOW
- [Symbol] PROPOSED MAST ARM
- [Symbol] PROPOSED PED POLE
- [Symbol] EXISTING LUMINAIRES
- [Symbol] PROPOSED CABINET
- [Symbol] PROPOSED ELECTRICAL SERVICE

- NOTES:
1. ALL PROPOSED CURB AND GUTTER, STEMWALLS, AND SHARED LANDINGS WITHIN THE PROPOSED RAMP LIMITS SHALL BE SUBSIDIARY TO ITEM 0531.
 2. 36" MINIMUM CLEARANCE IS REQUIRED ALONG ALL SIDEWALKS. SIGNAL POLE FOUNDATION SHALL BE FLUSH WITH SIDEWALK WHERE NEEDED IN ORDER TO MAINTAIN 36" CLEARANCE FROM TRAFFIC SIGNAL BASE PLATE.
 3. CONTRACTOR SHALL MATCH EXISTING CONCRETE PATTERN AND/OR COLOR. THIS WORK SHALL BE SUBSIDIARY TO ITEM 536 6002 CONC MEDIAN MISC.
 4. CONTRACTOR SHALL MATCH EXISTING LANDSCAPE ELEMENTS. THIS WORK SHALL BE SUBSIDIARY TO ITEM 1005 6002 LOOSE AGGREGATE.

<p>ENGINEER'S SEAL</p>	<p>REFERENCES - BENCHMARKS</p>
<p>SCALE</p> <p>DATE: 01/26/23</p> <p>DESIGN BY: [Name]</p> <p>DRAWN BY: [Name]</p> <p>CHECKED BY: [Name]</p> <p>APP'D BY: [Name]</p>	<p>PROJECT NAME</p> <p>INSTALLATION OF TRAFFIC SIGNALS</p>
<p>EPA TX</p> <p>STREET & MAINTENANCE</p>	
<p>consor</p> <p>1501 N. MESA STE #200, EL PASO, TX 79902</p> <p>PHONE: (915) 313-3680</p>	
<p>SHEET TITLE</p> <p>BASE BID 3- FRONTERA NEAR ROXBURY RAMP LAYOUT</p> <p>SHEET 1 OF 2</p>	
<p>SHEET</p> <p>C 63 OF C 137</p>	

S:\01431_PW
 6/15/2023
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ROADWAY & ADA RAMP QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
132 6001	EMBANKMENT (FINAL) (ORD COMP) (TY A)	CY	41
314 6005	EMULS ASPH (BS OR SUBGR TRT) (CSS-1H)	GAL	8
341 6010	D-GR HMA TY-B PG70-22	TON	23
528 6001	COLORED TEXTURED CONC (4")	SY	47
529 6008	CONC CURB & GUTTER (TY II)	LF	230
529 9999	CONCRETE HEADER CURB	LF	79
530 6004	DRIVEWAYS (CONC)	SY	49
531 6001	CONC SIDEWALKS (4")	SY	22
531 6010	CURB RAMPS (TY 7)	EA	8
536 9999	MISC LANDSCAPE- (MATCH EXISTING)	SY	68

POINT DATA TABLE					
ID	STATION	OFFSET	X	Y	ELEVATION
P1	16+75.95	12.5456' LT	360871.60	10680625.88	3736.22' MATCH EXIST.
P2	16+80.41	12.5601' LT	360875.42	10680628.17	3736.22'
P3	16+87.34	13.5421' LT	360880.87	10680632.56	3736.35'
P4	16+92.33	15.5604' LT	360884.13	10680636.84	3736.44'
P5	17+04.59	30.201' LT	360887.17	10680655.69	3736.46'
P6	17+05.67	35.1994' LT	360885.54	10680660.54	3736.42'
P7	17+05.83	38.0599' LT	360884.22	10680663.08	3736.40'
P8	17+05.83	42.5181' LT	360881.94	10680666.91	3736.55'
P9	17+01.59	57.2235' LT	360870.77	10680677.38	3736.74'
P10	16+98.12	69.2552' LT	360861.64	10680685.95	3736.75'
P11	16+98.15	89.5208' LT	360851.30	10680703.37	3736.76' MATCH EXIST.
P12	16+89.08	35.2693' LT	360871.26	10680652.12	3736.55' MATCH EXIST.
P13	16+92.41	38.3762' LT	360872.53	10680656.49	3736.40' MATCH EXIST.
P14	17+38.69	89.5208' LT	360886.12	10680724.11	3736.88' MATCH EXIST.
P15	17+38.38	43.1362' LT	360909.59	10680684.10	3736.88'
P16	17+39.51	34.7973' LT	360914.83	10680677.51	3736.40'
P17	17+41.42	29.7848' LT	360919.04	10680674.18	3736.78'
P18	17+47.37	21.5258' LT	360928.37	10680670.13	3736.78'
P19	17+52.39	17.5595' LT	360934.71	10680669.29	3736.78'
P20	17+68.51	12.9415' LT	360950.92	10680673.57	3736.84'
P21	17+79.32	12.9858' LT	360960.19	10680679.14	3736.88'
P22	17+84.30	17.9858' LT	360961.91	10680685.98	3736.96'
P23	17+84.30	34.0486' LT	360953.70	10680699.78	3737.01' MATCH EXIST.
P24	17+52.49	48.6228' LT	360918.91	10680696.03	3736.94' MATCH EXIST.
P25	17+64.30	38.9471' LT	360934.01	10680693.76	3737.09' MATCH EXIST.
P26	18+01.40	34.1232' LT	360968.35	10680708.60	3736.97' MATCH EXIST.
P27	18+01.40	18.0969' LT	360976.55	10680694.82	3736.95'
P28	18+06.42	13.0969' LT	360983.42	10680693.10	3736.93'
P29	18+16.92	13.1400' LT	360992.42	10680698.51	3736.97'
P30	18+36.06	20.9993' LT	361004.84	10680715.05	3737.01'
P31	18+51.76	27.4299' LT	361015.05	10680728.61	3737.06'
P32	18+58.76	27.4444' LT	361021.04	10680732.20	3737.09' MATCH EXIST.
P33	16+76.05	12.3595' RT	360884.43	10680604.53	3736.54' MATCH EXIST.
P34	16+78.16	12.3689' RT	360886.25	10680605.60	3736.55'
P35	16+87.25	14.4708' RT	360895.13	10680608.44	3736.56'
P36	16+92.24	17.9201' RT	360901.18	10680608.03	3736.52'
P37	16+98.61	30.8447' RT	360913.27	10680600.19	3736.51'
P38	16+98.50	35.8445' RT	360915.73	10680595.84	3736.50'
P39	16+97.44	45.1170' RT	360919.57	10680587.33	3736.49' MATCH EXIST.
P40	17+32.73	39.4729' RT	360947.00	10680610.23	3736.28' MATCH EXIST.
P41	17+33.59	35.7278' RT	360945.82	10680613.89	3736.29'
P42	17+35.16	30.7379' RT	360944.62	10680618.98	3736.20'
P43	17+47.07	16.6930' RT	360947.66	10680637.14	3736.36'
P44	17+52.06	14.2034' RT	360950.68	10680641.83	3736.56
P45	17+62.82	12.1812' RT	360958.89	10680649.07	3736.56'
P46	17+78.13	12.1475' RT	360972.03	10680656.93	3736.67' MATCH EXIST.

CURVE DATA TABLE					
NAME	PC	PT	RADIUS	BACK	AHEAD
C1	P1	P7	25.5'	N 59° 2' 42.24" E	N 30° 46' 11.08" W
C2	P8	P9	27.5'	N 30° 46' 11.08" W	-
C3	P9	P10	22.5'	-	N 30° 41' 11.10" W
C4	P15	P20	30.0'	N 30° 23' 50.36" W	N 58° 59' 43.13" E
C5	P21	P22	5.0'	N 58° 59' 43.13" W	N 30° 46' 11.08" W
C6	P27	P28	5.0'	N 30° 46' 11.08" W	N 58° 59' 43.13" E
C7	P29	P30	27.5'	N 58° 59' 43.13" E	-
C8	P30	P31	22.5'	-	N 59° 6' 40.78" E
C9	P34	P38	20.5'	N 59° 6' 11.48" E	N 24° 15' 14.24" W
C10	P41	P45	30.0'	N 17° 52' 6.26" W	N 59° 6' 11.48" E

REFERENCES - BENCHMARKS

ENGINEER'S SEAL

SCALE

PROJECT NAME

INSTALLATION OF TRAFFIC SIGNALS

STREET & MAINTENANCE

consor

1501 N. MESA STE #200, EL PASO, TX 79902
PHONE: (915) 313-3680

SHEET TITLE

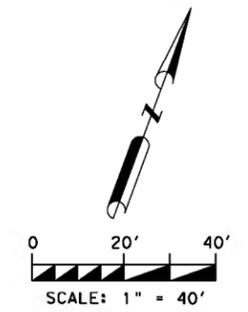
BASE BID 3-
FRONTERA NEAR
ROXBURY
RAMP LAYOUT

SHEET 2 OF 2

238752

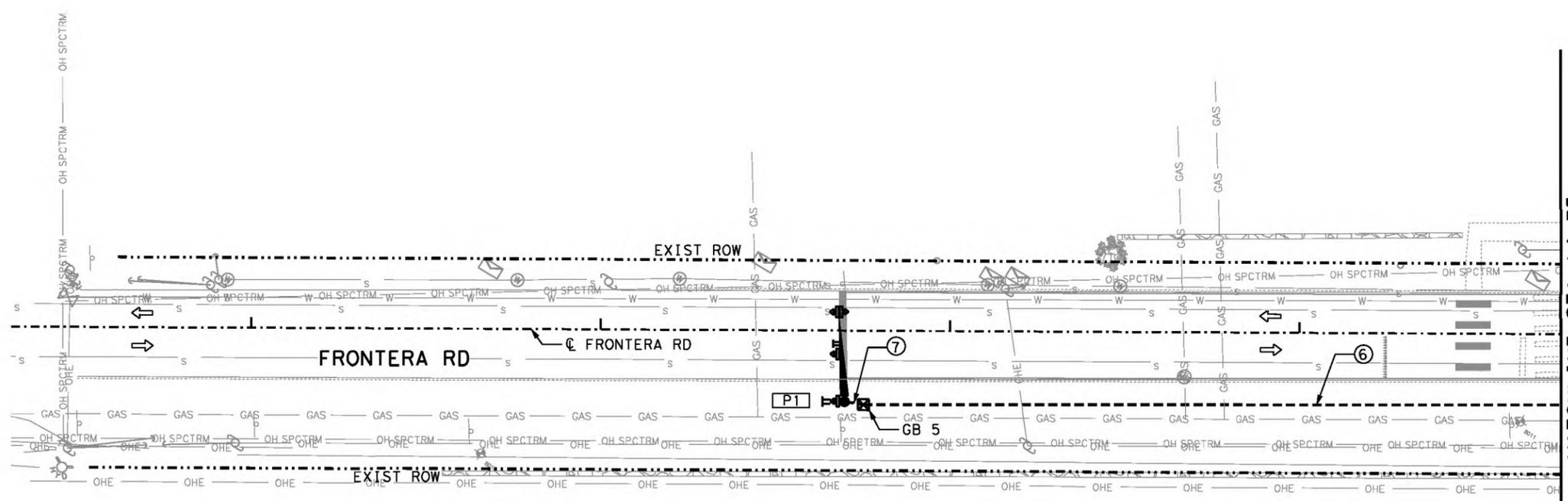
C 64 of C 137

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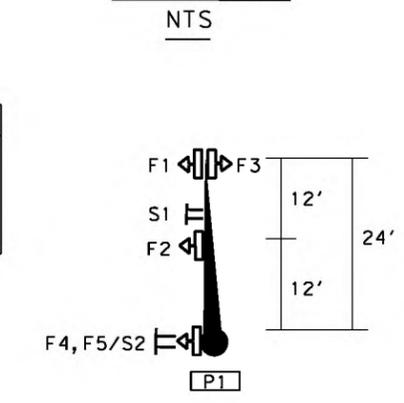


LEGEND

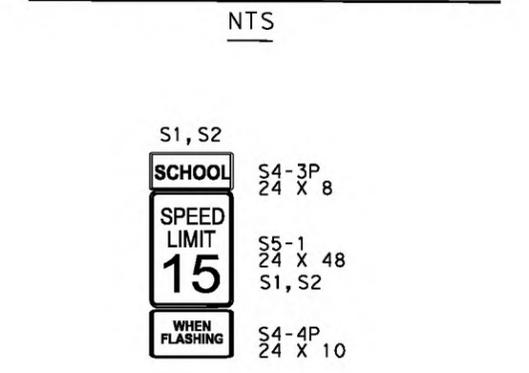
- # PROPOSED LED TRAFFIC SIGNAL W/BACKPLATE
- F# PROPOSED VEH SIG SEC (12IN) LED (Y)
- PROPOSED MAST ARM
- S# PROPOSED MAST ARM SIGNS
- V# PROPOSED VIVDS CAMERA
- W# PROPOSED PEDESTRIAN SIGNAL HEAD
- PB# PROPOSED PUSH BUTTON
- PROPOSED OPTICOM
- PROPOSED POLE MOUNTED TRAFFIC SIGNAL CONTROLLER
- PROPOSED GROUND BOX TY "D" W/APRON
- PROPOSED GROUND BOX TY "A" W/APRON
- PROPOSED PED SIGNAL POLE
- PROPOSED CONDUIT (TRENCH)
- PROPOSED CONDUIT (BORE)
- TRAFFIC FLOW
- PROPOSED ELECTRICAL SERVICE
- PROP CONCRETE SIDEWALK
- PROPOSED ADA RAMP



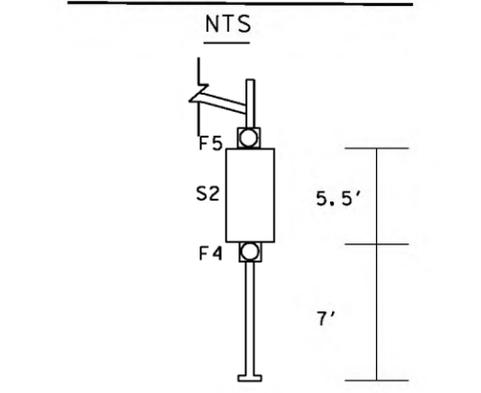
MAST ARM DETAIL (POLE 1)



PROPOSED SIGN MOUNTED ON MAST ARMS

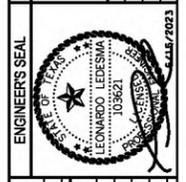


MAST ARM VERTICAL DETAIL (POLE 1)



PROPOSED TRAFFIC SIGNAL HEADS	
	ONE SECTION SIGNAL HEAD
F1, F2, F3, F4, F5	

REFERENCES - BENCHMARKS	
FILE	REVISIONS



SCALE	
HOR.	VER.
1"=40'	1"=40'

PROJECT NAME	
INSTALLATION OF TRAFFIC SIGNALS	

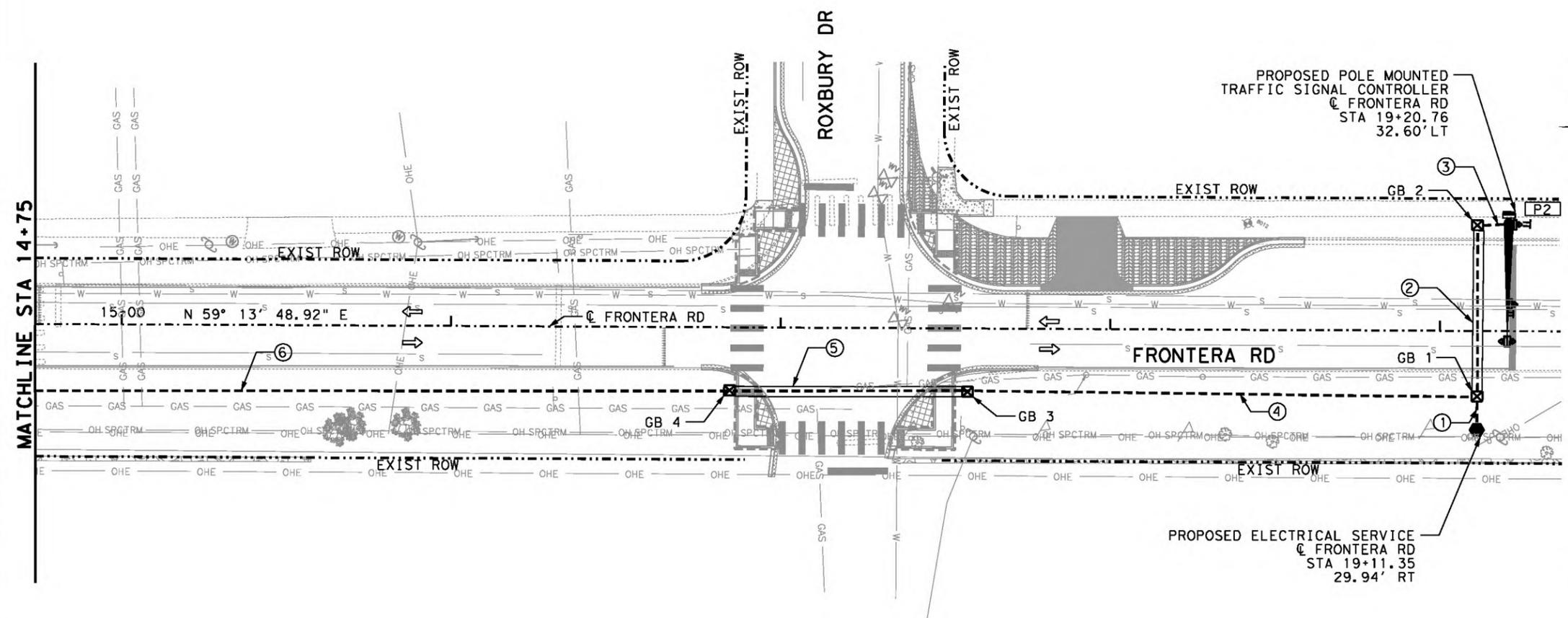
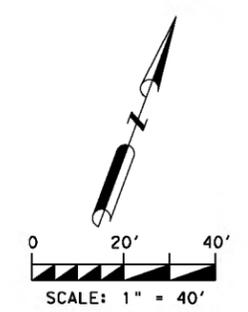


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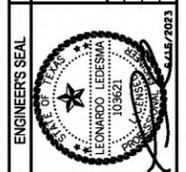
SHEET	
C 65	of C 137

238752

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- LEGEND**
- # [Symbol] PROPOSED LED TRAFFIC SIGNAL W/BACKPLATE
 - F# [Symbol] PROPOSED VEH SIG SEC (12IN) LED (Y)
 - [Symbol] PROPOSED MAST ARM
 - S# [Symbol] PROPOSED MAST ARM SIGNS
 - V# [Symbol] PROPOSED VIVDS CAMERA
 - W# [Symbol] PROPOSED PEDESTRIAN SIGNAL HEAD
 - PB# [Symbol] PROPOSED PUSH BUTTON
 - [Symbol] PROPOSED OPTICOM
 - [Symbol] PROPOSED POLE MOUNTED TRAFFIC SIGNAL CONTROLLER
 - [Symbol] PROPOSED GROUND BOX TY "D" W/APRON
 - [Symbol] PROPOSED GROUND BOX TY "A" W/APRON
 - [Symbol] PROPOSED PED SIGNAL POLE
 - [Symbol] PROPOSED CONDUIT (TRENCH)
 - [Symbol] PROPOSED CONDUIT (BORE)
 - [Symbol] TRAFFIC FLOW
 - [Symbol] PROPOSED ELECTRICAL SERVICE
 - [Symbol] PROP CONCRETE SIDEWALK
 - [Symbol] PROPOSED ADA RAMP



SCALE	DATE	DESIGN BY	DATE	APP. BY
1" = 40'	01/26/23	LEONARDO LEDESMA	01/26/23	

PROJECT NAME
INSTALLATION OF TRAFFIC SIGNALS



SHEET TITLE
BASE BID 3- FRONTERA RD NEAR ROXBURY DR SIGNAL LAYOUT

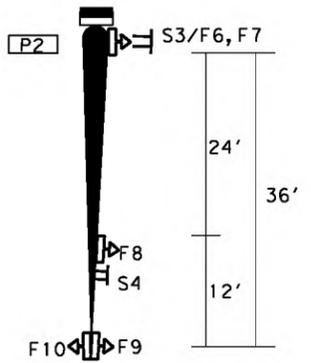
SHEET
C 66 of C 137

238752

MAST ARM DETAIL (POLE 2)

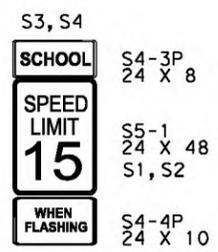
NTS

PROPOSED TRAFFIC SIGNAL HEADS	
 F6, F7, F8, F9, F10	ONE SECTION SIGNAL HEAD



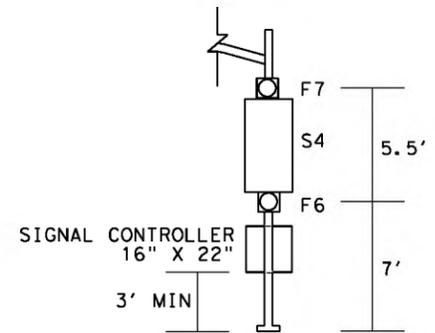
PROPOSED SIGN MOUNTED ON MAST ARMS

NTS



MAST ARM VERTICAL DETAIL (POLE 2)

NTS



CONDUIT AND CONDUCTOR SUMMARY						
RUN NO.	LENGTH (FT)	NUMBER OF CONDUCTORS			CONDUIT	
		NO. 6 (INSULATED) (POWER)	NO. 6 (INSULATED) (GROUND)	TRF SIG CBL (12 AWG) (12 CONDR)	TRENCHED PVC SCH 40 (2")	BORED PVC SCH 40 (2")
		1	10	2	1	
2	55	2	1	1	2	
3*	20	2	1	1	2	
4	155			1	1	
5	75			1	1	
6	410			1	1	
7	10			1	1	
TOTAL (FT)		200	100	755	635	185

*INCLUDES VERTICAL RUN TO POLE MOUNTED CONTROLLER CABINET.
ALL CONDUCTOR RUNS INCLUDE 5 LF OF SLACK.

CONDUCTOR FROM POLE BASE TO SIGNAL HEAD		
POLE NO.	PED SIGNAL HEAD NO.	TRF SIG CBL (12 AWG) (5 CONDR)
P1	F1	49
	F2	37
	F3	49
	F4	12
	F5	18
TOTAL (FT)		165

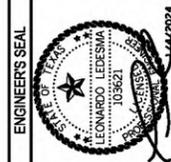
CONDUCTOR FROM POLE MOUNTED CONTROLLER TO SIGNAL HEAD		
POLE NO.	PED SIGNAL HEAD NO.	TRF SIG CBL (12 AWG) (5 CONDR)
P2	F6	10
	F7	5
	F8	39
	F9	51
	F10	51
TOTAL (FT)		156

TRAFFIC SIGNAL QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
416 6031	DRILL SHAFT (TRF SIG POLE) (30 IN)	LF	12
416 6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	14
618 6023	CONDT (PVC) (SCH 40) (2")	LF	635
618 6024	CONDT (PVC) (SCH 40) (2") (BORE)	LF	185
620 6010	ELEC CONDR (NO. 6) INSULATED	LF	300
624 6002	GROUND BOX TY A (122311)W/APRON	EA	5
628 6128	ELC SRV TY D 120/240 060(NS)GS(N)GC(O)	EA	1
680 6003	INSTALL HWY TRF SIG (SYSTEM)	EA	1
	*FLASHER CONTROLLER IN CABINET	EA	1
	*POLE MOUNTED CABINET	EA	1
682 6003	VEH SIG SEC (12")LED(YEL)	EA	10
684 6010	TRF SIG CBL (TY A) (12 AWG) (5 CONDR)	LF	321
684 6017	TRF SIG CBL (TY A) (12 AWG) (12 CONDR)	LF	755
686 6025	INS TRF SIG PL AM (S)1 ARM(24')	EA	1
686 6037	INS TRF SIG PL AM(S)1 ARM(36')	EA	1

* SUBSIDIARY TO ITEM 0680 6003 "INSTALL HWY TRF SIG (SYSTEM)"

POLE CHART				
POLE	DESCRIPTION	CENTERLINE	STATION	OFFSET
P1	PROPOSED 24' MAST ARM POLE	FRONTERA RD	12+69.81	18.45' RT
P2	PROPOSED 36' MAST ARM POLE	FRONTERA RD	19+20.76	32.60' LT

REFERENCES - BENCHMARKS	FILE
REVISIONS	DATE



SCALE	N/A
HOR. VER.	N/A
DATE	11/20/24
DESIGN BY	EP
DRAWN BY	EP
CHK. BY	LD
APP. BY	LD

PROJECT NAME
INSTALLATION OF TRAFFIC SIGNALS

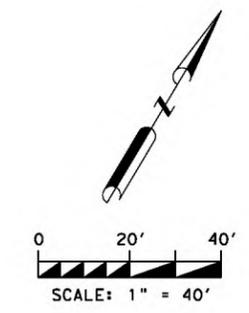
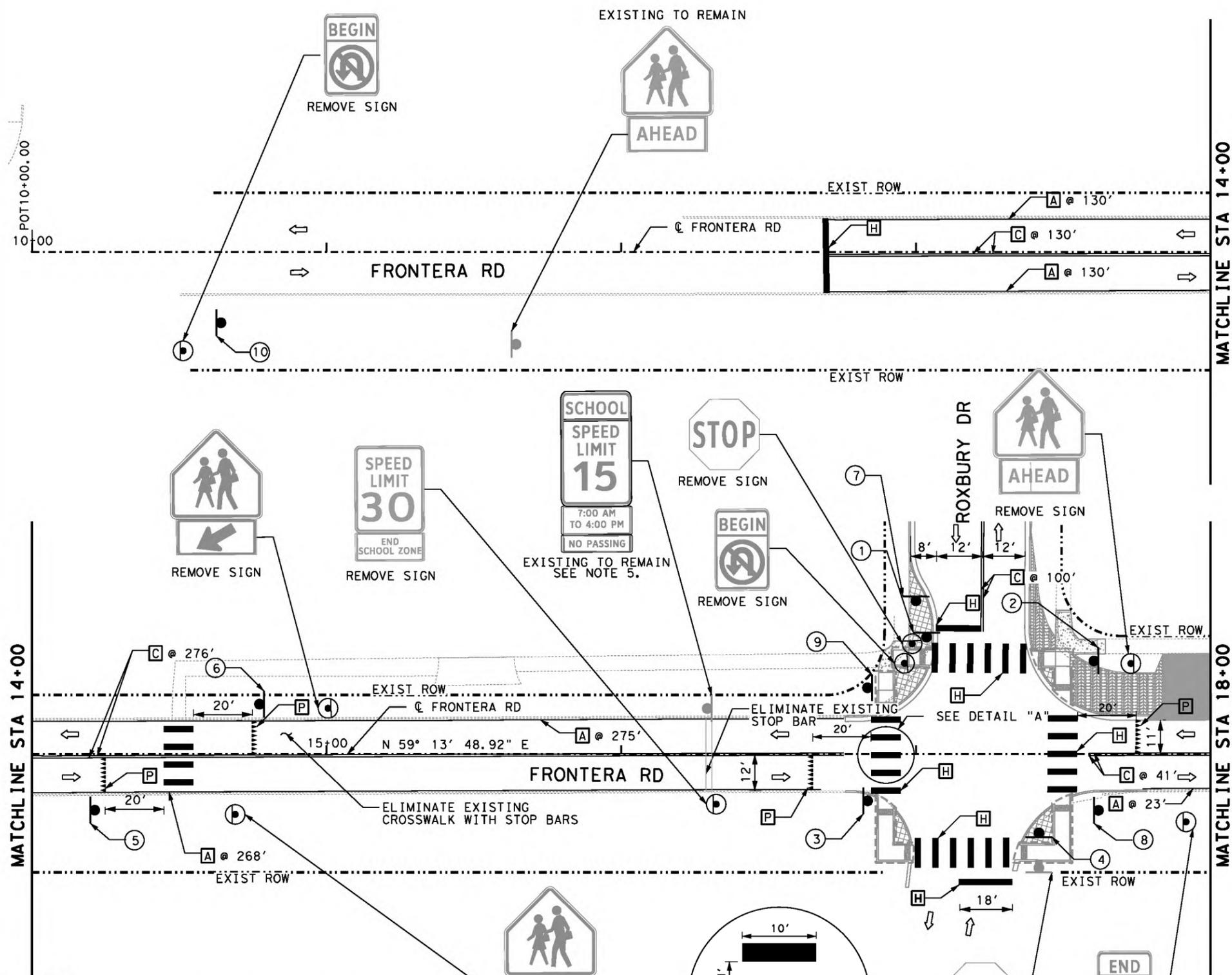


SHEET TITLE
BASE BID 3- FRONTERA RD NEAR ROXBURY DR TRAFFIC SIGNAL LAYOUT

SHEET
C 67 of C 137

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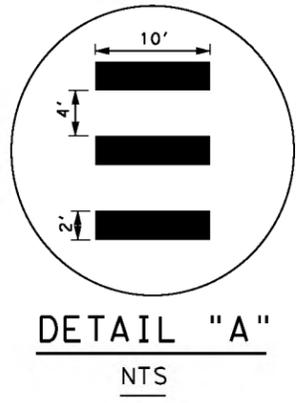
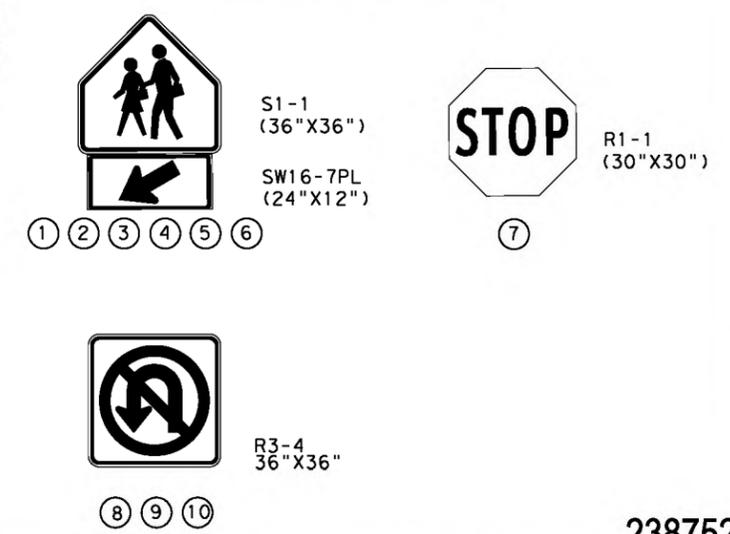
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LEGEND

- A RE PM W/RET REQ TY I(W)6" (SLD) (100MIL)
- B RE PM W/RET REQ TY I(W)6" (BRK) (100MIL)
- C RE PM W/RET REQ TY I(Y)6" (SLD) (100MIL)
- D REFL PAV MRK TY I(W)6" (DOT) (100MIL)
- E REFL PAV MRK TY I(W)8" (SLD) (100MIL)
- F REFL PAV MRK TY I(W)12" (SLD) (100MIL)
- G REFL PAV MRK TY I(W)12" (DOT) (100MIL)
- H REFL PAV MRK TY I(W)24" (SLD) (100MIL)
- I REFL PAV MRK TY I(W)8" (DOT) (100MIL)
- J REFL PAV MARK TY I (W) (ARROW) (100 MIL)
- K REFL PAV MARK TY I (W) (WORD) (100 MIL)
- L REFL PAV MRKR TY II-C-R
- M REFL PAV MRKR TY II-A-A
- N REFL PAV MRKR TY I-C
- O REF PM TY I(W) (BIKE SHARE LN) (100MIL)
- P REF PAV MRK TY I(W)18" (YLD TRI) (100MIL)
- Q REFL PAV MRK TY I(W) (DBL ARROW) (100MIL)
- R REFL PAV MRK TY I(W) (BIKE ARROW) (100MIL)
- S REF PROF PAV MRK TY I(Y)6" (SLD) (100MIL)
- T RE PM W/RET REQ TY I(Y)6" (BRK) (100MIL)
- U REFL PAV MRK TY I(Y) (MED NOSE) (100MIL)
- V PATT REFL PAV MRK AWT (W) 6" (SLD)
- W EXISTING SIGN TO BE REMOVED
- X EXISTING SIGN TO BE RELOCATED
- Y PROPOSED SIGN
- Z TRAFFIC FLOW
- * 20' MARKER SPACING
- ** 40' MARKER SPACING
- *** 80' MARKER SPACING

PROPOSED SIGNS

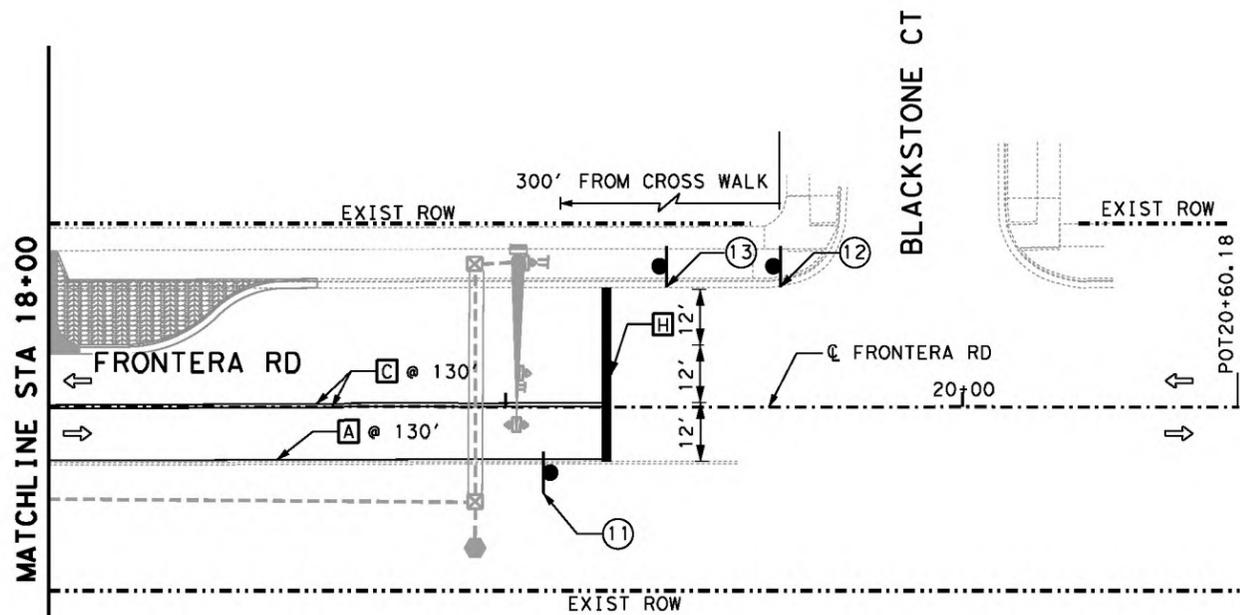


- NOTES:**
1. ALL EXISTING SIGNS ARE TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
 2. LIMITS OF PROPOSED PAVEMENT MARKINGS EXTEND 100' FROM STOP BAR OR CROSSWALK FOR EACH APPROACH OR AS SHOWN ON PLANS.
 3. REFER TO "PROPOSED RAMP LAYOUT" SHEET FOR WHEELCHAIR RAMP DETAILS.
 4. ELIMINATE EXISTING PAVEMENT MARKINGS AND RE-STRIPE ON TOP OF THEM AT ALL LOCATIONS.
 5. DAMAGED POLE FOUNDATION, CONTRACTOR TO USE ITEM 644 6001, "IN SM RD SN SUP&AM TY 10BWG(1)SA(P)" FOR INSTALLATION OF POLE FOUNDATION WITH EXISTING SIGN.

REFERENCES - BENCHMARKS	FILE	DATE	REVISIONS
ENGINEER'S SEAL			
SCALE	T-40	DATE	BY
HOR. VER.	EM	DATE	BY
DESIGN BY	EM	DATE	BY
DRAWN BY	LD	DATE	BY
APP'D BY	LD	DATE	BY
PROJECT NAME	INSTALLATION OF TRAFFIC SIGNALS		
SHEET TITLE BASE BID 3- FRONTERA NEAR ROXBURY SIGNING & PAVEMENT MARKING LAYOUT SHEET 1 OF 2			
SHEET C 68 OF C 137			

238752

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PROPOSED SIGNS



R2-1
(30"X36")
S5-2aTP
(24"X10")

11



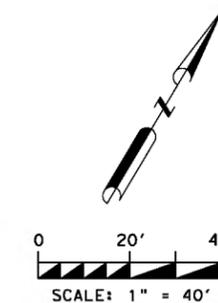
S1-1
(36"X36")
SW16-9P
(24"X12")

12



R3-4
36"X36"

13



LEGEND

- A RE PM W/RET REQ TY I(W)6" (SLD) (100MIL)
- B RE PM W/RET REQ TY I(W)6" (BRK) (100MIL)
- C RE PM W/RET REQ TY I(Y)6" (SLD) (100MIL)
- D REFL PAV MRK TY I(W)6" (DOT) (100MIL)
- E REFL PAV MRK TY I(W)8" (SLD) (100MIL)
- F REFL PAV MRK TY I(W)12" (SLD) (100MIL)
- G REFL PAV MRK TY I(W)12" (DOT) (100MIL)
- H REFL PAV MRK TY I(W)24" (SLD) (100MIL)
- I REFL PAV MRK TY I(W)8" (DOT) (100MIL)
- J REFL PAV MARK TY I (W) (ARROW) (100 MIL)
- K REFL PAV MARK TY I (W) (WORD) (100 MIL)
- L REFL PAV MRKR TY II-C-R
- M REFL PAV MRKR TY II-A-A
- N REFL PAV MRKR TY I-C
- O REF PM TY I(W) (BIKE SHARE LN) (100MIL)
- P REF PAV MRK TY I(W)18" (YLD TRI) (100MIL)
- Q REFL PAV MRK TY I(W) (UTURN ARW) (100MIL)
- R REFL PAV MRK TY I(W) (DBL ARROW) (100MIL)
- S REFL PAV MRK TY I(W) (BIKE ARROW) (100MIL)
- T REF PROF PAV MRK TY I(Y)6" (SLD) (100MIL)
- U RE PM W/RET REQ TY I(Y)6" (BRK) (100MIL)
- V REFL PAV MRK TY I(Y) (MED NOSE) (100MIL)
- W PATT REFL PAV MRK AWT (W) 6" (SLD)
- ⊙ EXISTING SIGN TO BE REMOVED
- ⊕ EXISTING SIGN TO BE RELOCATED
- ⊙# PROPOSED SIGN
- ↔ TRAFFIC FLOW
- * 20' MARKER SPACING
- ** 40' MARKER SPACING
- *** 80' MARKER SPACING

PAVEMENT MARKING			
ITEM	DESCRIPTION	UNIT	QTY
644 6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	13
644 6076	REMOVE SM RD SN SUP&AM	EA	8
666 6048	REFL PAV MRK TY I (W)24" (SLD) (100MIL)	LF	350
666 6099	REF PAV MRK TY I(W)18" (YLD TRI) (100MIL)	EA	32
666 6174	REFL PAV MRK TY II (W) 6" (SLD)	LF	956
666 6182	REFL PAV MRK TY II (W) 24" (SLD)	LF	350
666 6198	REFL PAV MRK TY II (W) 18" (YLD TRI)	EA	32
666 6210	REFL PAV MRK TY II (Y) 6" (SLD)	LF	1354
666 6308	RE PM W/RET REQ TY I (W)6" (SLD) (090MIL)	LF	956
666 6320	RE PM W/RET REQ TY I (Y)6" (SLD) (090MIL)	LF	1354
677 6007	ELIM EXT PAV MRK & MRKS (24")	LF	245
678 6002	PAV SURF PREP FOR MRK (6")	LF	2310
678 6008	PAV SURF PREP FOR MRK (24")	LF	350
678 6022	PAV SURF PREP FOR MRK (18") (YLD TRI)	EA	32

NOTES:

- ALL EXISTING SIGNS ARE TO REMAIN IN PLACE UNLESS NOTED OTHERWISE.
- LIMITS OF PROPOSED PAVEMENT MARKINGS EXTEND 100' FROM STOP BAR OR CROSSWALK FOR EACH APPROACH OR AS SHOWN ON PLANS.
- REFER TO "PROPOSED RAMP LAYOUT" SHEET FOR WHEELCHAIR RAMP DETAILS.
- ELIMINATE EXISTING PAVEMENT MARKINGS AND RE-STRIPE ON TOP OF THEM AT ALL LOCATIONS.

REFERENCES - BENCHMARKS	FILE
REVISIONS	DATE
BY	



SCALE	T-W	LD
HOR. VER.	DATE	APP. BY
	DESIGN BY	CHK. BY
	DRAWN BY	LD

PROJECT NAME
INSTALLATION OF TRAFFIC SIGNALS

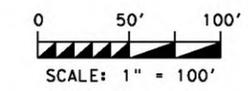
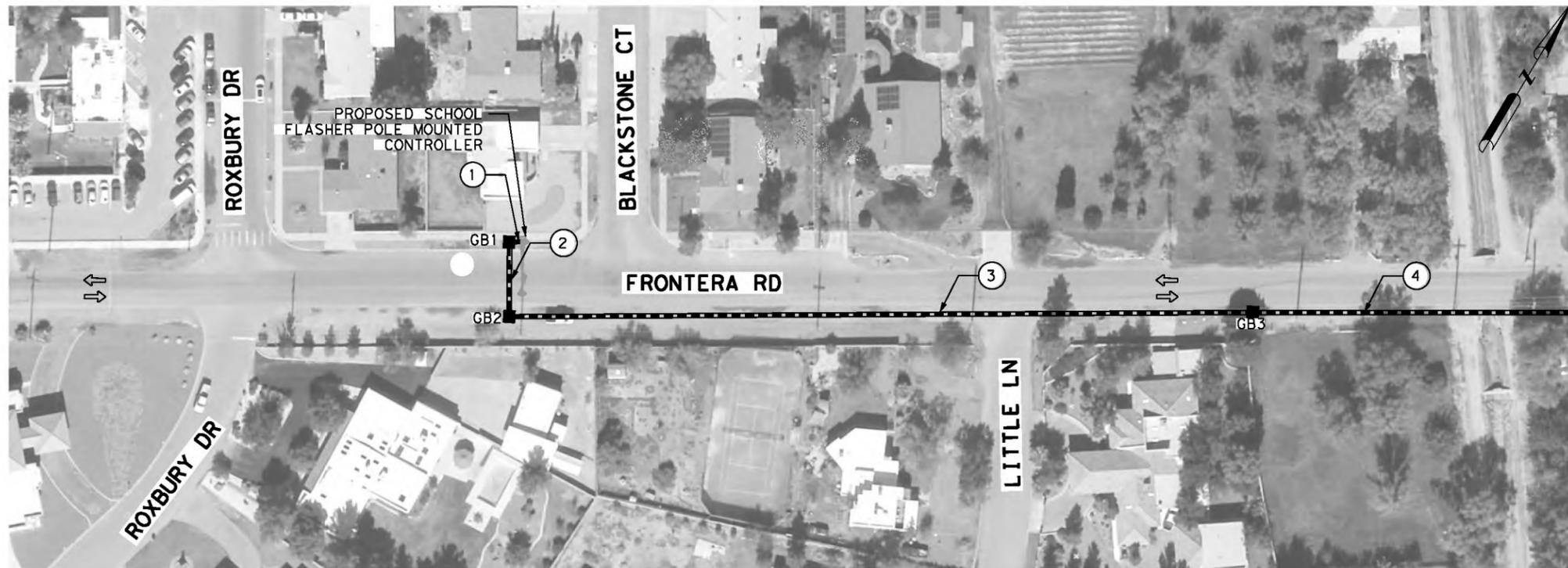


SHEET TITLE
BASE BID 3- FRONTERA NEAR ROXBURY SIGNING & PAVEMENT MARKING LAYOUT
SHEET 2 OF 2

SHEET
C 69 of C 137

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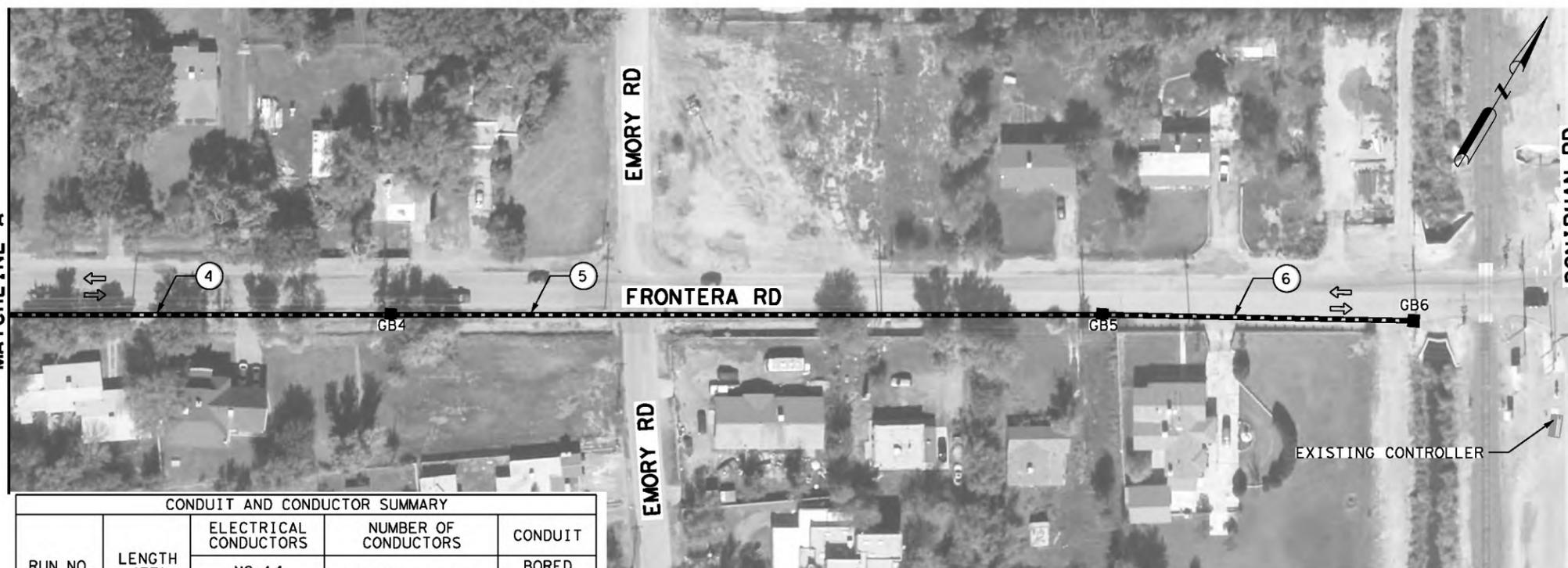
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- LEGEND**
- EXISTING TRAFFIC SIGNAL CONTROLLER
 - PROPOSED TRAFFIC SIGNAL CONTROLLER
 - PROPOSED ITS GROUND BOX TY 1
 - PROPOSED CONDUIT (BORE)
 - EXISTING TRAFFIC FLOW

MATCHLINE A

NOTE:
 1. ON/OFF OPERATION FOR SCHOOL FLASHERS WILL BE CONTROLLED BY TRAFFIC SIGNAL CABINET SHOWN ON PLANS.



MATCHLINE A

CONDUIT AND CONDUCTOR SUMMARY				
RUN NO.	LENGTH (FT)	ELECTRICAL CONDUCTORS	NUMBER OF CONDUCTORS	CONDUIT
		NO. 14 (INSULATED) (TRACER)	12-SINGLE MODE FIBER	BORED PVC SCH 40 (3")
1*	20	1	1	1
2	45	1	1	1
3	520	1	1	1
4	500	1	1	1
5	500	1	1	1
6	220	1	1	1
TOTAL (FT)		1835	1835	1805

*RUN INCLUDES VERTICAL LENGTH TO POLE MOUNTED CONTROLLER.
 ALL CONDUCTOR RUNS INCLUDE 5' OF SLACK

ITS QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
158 6005	SPEC EXCAV WORK (ORIGINAL)	CY	4
618 6030	CONDT (PVC) (SCH 40) (3") (BORE)	LF	1805
620 6002	ELEC CONDR (NO.14) INSULATED	LF	1835
6007 6011	FIBER OPTIC CBL (SNGLE-MODE) (12 FIBER)	LF	1835
6007 6023	FIBER OPTIC PATCH PANEL (12 POSITION)	EA	1
6186 6001	ITS GND BOX (PCAST) TY 1 (243636)	EA	6

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REFERENCES - BENCHMARKS

ENGINEER'S SEAL

SCALE

PROJECT NAME

INSTALLATION OF TRAFFIC SIGNALS

EPA TX STREET & MAINTENANCE

consor F-12040 1501 N. MESA STE #200, EL PASO, TX 79902 PHONE: (817) 313-3680

SHEET TITLE

BASE BID 3- FRONTERA RD NEAR ROXBURY DR INTERCONNECT LAYOUT

SHEET

C 70 of C 137

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