

**CITY OF EL PASO, TEXAS  
AGENDA ITEM  
DEPARTMENT HEAD'S SUMMARY FORM**

**DEPARTMENT:** Capital Improvement  
**AGENDA DATE:** September 14, 2021  
**CONTACT PERSON/PHONE:** Yvette Hernandez, P.E., CID Director of Grant Funded Programs, 212-1860  
Sam Rodriguez, P.E., City Engineer, 212-0065

**DISTRICT(S) AFFECTED:** Citywide

**STRATEGIC GOAL: No. 7: Enhance and Sustain El Paso's Infrastructure Network**

**SUBJECT:**

That the City Council approves a change order in the amount of One Hundred Forty-Six Thousand and Eight Hundred Fourteen and 02/100 Dollars (\$146,814.02) to Allied Paving Company of El Paso, Inc. for the additional installation of median improvements on Airway Blvd under Contract No. 2018-656 Street Median and Parkway Landscape Improvements. This notice provides for the additional scope of work, which allows for additional capacity to the awarded contract. Forty (40) working days will be allowed for the completion of the work. The new contract sum, including this change order notice is Six Million Forty-Four Thousand, Nine Hundred Ninety-Eight and 00/100 Dollars (\$6,044,998.00)

**BACKGROUND / DISCUSSION:**

This change order is to install protective low profile concrete barrier (LPCB) around the public art structures in the median on Airway Blvd. The LPCB will prevent vehicle damage to the public art structures. The scope of work includes earthwork, installing the LPCB, acid staining the concrete, and relocating the irrigation line so that it is not in conflict with the LPCB. The total amount of the change order is \$146,814.02.

**COUNCIL REPRESENTATIVE BRIEFING:**

Was a briefing provided?  Yes or  Not Applicable (Routine)  
If yes, select the applicable districts.

- District 1
- District 2
- District 3
- District 4
- District 5
- District 6
- District 7
- District 8
- All Districts

**PRIOR COUNCIL ACTION:**

NA

**AMOUNT AND SOURCE OF FUNDING:**

Public Art Fund

**BOARD / COMMISSION ACTION:**

N/A

\*\*\*\*\*REQUIRED AUTHORIZATION\*\*\*\*\*

**DEPARTMENT HEAD:**

*Yvette Hernandez*

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**RESOLUTION**

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:**

That the City Council approves a change order in the amount of One Hundred Forty Six Thousand and Eight Hundred Fourteen and 02/100 Dollars (\$146,814.02) to Allied Paving Company of El Paso, Inc. for the additional installation of median improvements on Airway Blvd under Contract No. 2018-656 Street Median and Parkway Landscape Improvements. This notice provides for the additional scope of work, which allows for additional capacity to the awarded contract. Forty (40) working days will be allowed for the completion of the work. The new contract sum, including this change order notice is Six Million Forty Four Thousand, Nine Hundred Ninety Eight and 00/100 Dollars (\$6,044,998.00).

ADOPTED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2021.

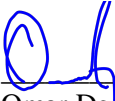
CITY OF EL PASO:

\_\_\_\_\_  
Oscar Leeser  
Mayor

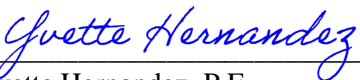
ATTEST:

\_\_\_\_\_  
Laura D. Prine  
City Clerk

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Omar De La Rosa  
Assistant City Attorney

APPROVED AS TO CONTENT

  
\_\_\_\_\_  
Yvette Hernandez, P.E.  
Grant Funded Programs Director

# CITY OF EL PASO'S CONSTRUCTION CHANGE ORDER

CONSTRUCTION CHANGE ORDER NO.:	22	DATE:	August 31, 2021	<input checked="" type="checkbox"/>	SCOPE CHANGE
PROJECT:	Street Median and Parkway Landscaping Improvements	SOLICITATION NO.:	CSJ 0924-06-498 Solicitation 2018-656	<input checked="" type="checkbox"/>	CONSTRUCTION CHANGE

Original Contract Amount: \$	6,112,689.90	Contract Time to Substantial Completion	240
Net Change by previous Change Orders:	\$342,693.94	Total days added due to Change Orders and CQN's	207
Net Change by previous Construction Quantity Notices:	(\$557,199.86)	Total days added for this Change Order	See below
Amount of this Construction Change Order:	\$146,814.02	New Contract Time to Substantial Completion:	NA
New Amended Contract Amount: \$	6,044,998.00	Current Substantial Completion Due Date	NA
Change Order Percentage:	8.01%		

CONTRACTOR NAME: Allied Paving Company

**Please provide a detailed scope of work of the change order (see back for reason/justification):**

Changes to bid schedule: Add Change Order 22: Additional work required to protect public art structures in Airway median. Quantity 1 - Lump Sum. Total Cost \$146,814.02.  
 Changes to Specifications: Add Change Order 22: Additional work required to protect public art structures in Airway median. Description: Measurement shall be made per lump sum.  
 Payment shall include all labor, equipment, materials, and fees to complete the following:  
 On Airway Blvd median, approximately 350 ft south of Edgemere Blvd  
 - Mobilize, excavate 4", place 4" two sack, place 32 LPCB Type 1 and 4 LPCB Type 2 as shown on attached plans, install traffic control according to contractor's traffic control plan approved by City of El Paso, place TMA's according to traffic control plan approved by City of El Paso  
 - Remove and stockpile landscape rock, excavate and removed existing asphalt in conflict with proposed irrigation line, install new irrigation line, install new weed barrier and replace clean landscape rock  
 - Acid stain all LPCB with color selected by COEP  
 Changes to Drawings: Reference attached plans sheets C1-C5, LG-001, LD-101, LP-101, LI-101 to LI-104. Update redlines as required.  
 Total cost of change: \$146,814.02  
 Time: 40 working days will be allowed for this work. Time charges will start as soon as change order is executed by City Engineer.  
 Unless specifically noted this change order addresses all compensation for time and money, including all direct and indirect costs associated with the above scope of work.

CONSECUTIVE CALENDAR DAYS ADDED TO COMPLETION TIME: see scope TOTAL CHANGE ORDER AMOUNT: \$ 146,814.02

**CONTRACTOR**

I, Salvador Chacon of Allied Paving Company agree and accept the terms and conditions of this change order.  
 Signature: [Signature] Date: 9-02-21

**CITY OF EL PASO (OWNER)**

I, Sam Rodriguez of the City of El Paso hereby authorize and direct the Contractor to proceed with additional work as described in this form.  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Sam Rodriguez, P.E., City Engineer

# CITY OF EL PASO CONSTRUCTION CHANGE ORDER- Pg. 2

CONSTRUCTION CHANGE ORDER NO.: 22 DATE: August 31, 2021  SCOPE CHANGE

PROJECT: Street Median and Parkway Landscaping Improvements SOLICITATION NO. CSJ 0924-06-498 Solicitation 2018-656  CONSTRUCTION CHANGE

Project Number	<u>PCP15TRAN03</u>	Project Number	<u>PCP15TRAN03</u>	PURCHASE ORDER #	<u>CEP35-1900000058</u>
Class	<u>38170</u>	Class	<u>38170</u>		
Department	<u>190</u>	Department	<u>190</u>		
Fund	<u>4950</u>	Fund	<u>4950</u>		
Account	<u>580270</u>	Account	<u>580270</u>		

CONTRACTOR NAME: Allied Paving Company

**PROVIDE REASON/JUSTIFICATION FOR CHANGE ORDER:**

Change is required to protect public art structures in the Airway Blvd. median.  
Price: Design engineer prepared an estimate. CID project manager updated the cost estimate to include acid stain, asphalt removal, and TCP costs based on Street Median contract. PM determined the proposal was fair and reasonable based on comparison of the estimate with the contractor's proposal.  
Time: Additional scope will require 40 working days from the date of execution of this change order. Work is to be completed during maintenance period and after date of final completion.

CONSECUTIVE CALENDAR DAYS ADDED TO COMPLETION TIME: see scope TOTAL CHANGE ORDER AMOUNT: \$ - \$ **146,814.02**

Project Manager recommends approval: \_\_\_\_\_

Engineering Division Manager recommends approval: Margaret K Schroeder

Financing Department approval: \_\_\_\_\_  
(If Required)



## STANDARD FORM PROPOSAL

**CONTRACTING PARTY**

city of el paso

email:

Attn:

Tele:

**CONTRACTOR**

ALLIED PAVING COMPANY

5165 Hercules

El Paso TX 79904 Tele: (915) 755-7625

Fax: (915) 755-7628

Project: **airway****revised****DATE:**

Job Name: parkway

Job Location: airway

Plans: revised

Date: 8/25/2021

File Name:

This proposal is valid for next 30 days, thereafter subject to change. Contractor proposes to furnish the following items of work. This proposal with all its terms and conditions must become incorporated into any subsequent contract.

<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT</u>		
1.) mobilization earth work, excavation, embankment, two sack, low profile barrier ( 720 lf) traffic control, TMA'S	1	ls	\$	115,833.76
2.) remove and stockpile landscape rock, excavate and remove existing asphalt, install new irrigation line, place existing landscape rock	1	ls	\$	20,980.26
3.) acis stain barrier	1	ls		\$10,000.00
			<b>Total</b>	<b>\$ 146,814.02</b>

**Exclusions:** Herbicide treatment, permits, landscaping.

**PLANS & SPECIFICATION:** The work to be done is limited to items described above in this proposal, and any work not specifically listed herein is not part of this proposal or the subsequent agreement. If plans and specifications are attached or this proposal states they will be followed, then they form a part of this contract. In case of conflict between the provisions stated in such plans and specifications and terms within this contract, the terms contained in this form shall govern. Items or work to be furnished by others unless specifically listed above are (1) Site preparation, (2) Pavement patching of utility trenches/ street cuts / drives etc., (3) Demolition: removal of structures, paving, concrete, contaminated soils, (4) structural excavation or backfill, (5) testing, (6) Grading permit, (7) Layout of building lines and grade, (8) Killing of grass or vegetation, (9) Design and engineering (10) Paint Striping, (11) Blasting, hard pan or rock excavation.

**CHANGES:** All directions given by the owner or contracting party shall be compensated for as extra work if not specifically included in this original agreement. The officer whose signature appears below on behalf of contractor is the sole person authorized to negotiate change orders, and absent his signature any change orders/agreements are voidable at contractor's option. Contracting party will reimburse second time mobilization cost occasioned by delay / rescheduling or other changes by the owner, or contracting party, or other subcontractor of the Contracting Part. If quantity of work increases over those stated or on plans due to no fault of the contractor, contractor will be entitled to an equitable adjustment.

**ARBITRATION:** Any controversy / claim arising out of or relating to this contract, or the breach thereof, shall be settled by binding arbitration in accordance with the Construction Industry Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrators may be entered in any court having jurisdiction thereof. Such Arbitration shall be conducted in El Paso County, Texas with Texas law controlling where the above rules make no provision.

**ACCESS TO SITE:** Contracting party agrees to close the site to traffic and give to contractor free use of the site and sufficient adjacent grounds by ease of construction, and to provide all necessary permission and clearance to perform the entire work at one time. Contracting Party will notify utility companies for clearance, and provide for the field marking of any underground lines.

**STAKING OF WORK:** In all cases, engineering control and staking (field furnishing of reference points and elevations for line and grade) will be furnished by others; and contractor is not responsible nor liable for the accuracy or absence of such controls.

**INDEPENDENT CONTRACTOR:** Parties agree jointly that contractor is an independent contractor and is responsible for it's own employees and the accomplishment of the work listed above; and no instruction nor commitment to or from any employees will be considered valid without first gaining approval from contractor's contracting officer whose signature appears below.

**EXTENSION OF TIME TO PERFORM:** In the event that contractor is delayed in the performance or completion of the work under this agreement by any act, neglect or default of the Contracting Party, the Owner, the architect/ engineer, or any other contractors/subcontractors or workman employed by the Contracting Party or the Owner, transportation delays, acts of God, acts of war, or strikes, or by any circumstances beyond Contractor's control, the time fixed for the completion of the work shall be extended equal to the delay period plus the time it takes to repair the work previously accomplished.

**INSPECTION OF WORK:** Contracting party shall inspect work daily and immediately notify contractor in writing of any conditions inconsistent with the contract requirements.

**ADDITIONAL TERMS AND CONDITIONS** are listed on the back or second page, and they are part of this proposal.

**WARRANTY:** Contractor's work and materials shall be free from failure or defects for a period of one year from date of applications; provided further, any guarantees/ warranties are effective only if the contracting party has complied with all conditions and terms, payment and other provisions of this contract. No warranty against failure or defects in work or materials done by others is implied or stated. Contracting Party agrees to supply, free of expense to contractor, current soil test of the site, which will be relied upon by the contractor; and if no soil test is provided, contractor shall not be held responsible for delays, extra cost, or other damages resulting from poor or improper soil conditions Contractor is not responsible for

defects in work due to: fills put in by others, underground lines, soil filled by others, expansive soil, sites containing cesspools/septic tank, drainage pipe, irrigation pipe, underground electrical conduit, or obstructions not apparent from an inspection of the surface, underground or surface water or chemical which interfere with the construction of the work or use of finished job; inadequate access to the job site preventing construction equipment from doing the work; and / or failures resulting from neglect or mistreatment by others. The contracting party shall at his own cost and expense procure and maintain insurance against loss or damage by fire, vandalism, or flooding; payable to the owner or contractor to reimburse actual losses. All underground utilities, structures, and obstructions not clearly shown on plans will be repaired by others at no cost to contractor. When the proposed work is placed over base / subgrade prepared by others or over existing pavement, contractor is not responsible for failures or damages attributable to underlying work nor for inefficient drainage caused by others. If driveways or structures are damaged through normal transportation of materials to or from the job, such will not be backcharged to the Contractor. Occasionally grass, weeds, and other vegetation will protrude paving; and contractor is not responsible for such occurring. Herbicide application is to be done by others. Upon completion of paving, contractor will not be held responsible for deficient surface drainage when the design slope is less than 1/8 inch per foot.

**MATERIALS FURNISHED BY OTHERS:** Whenever Contracting Party purchases materials directly from outside vendor, and Contractor is providing a price for Equipment with Operators to install the paving, no tax will be due. Additionally, Contractor will use best efforts to minimize waste of materials but will not be backcharged for any waste that occurs. Quality requirements of the materials will not be the responsibility of Contractor.

**PAYMENT:** Contracting party promises to pay the contractor monthly installments for 90% value of the work performed. Failure to pay promptly shall result in lien, joint check, escrow of remaining funds, or any other measures deemed necessary by contractor to secure collection. Interest shall be charged to and paid by contracting party on any billings or amounts due over 30 days at the rate of 18% per annum or the highest rate permitted under law. Payment shall be in El Paso, Texas. If at any time before or during performance of the contract, an escrow deposit or letter of credit covering money established at the option of and for the benefit of contractor, as it appears necessary to do so, without impairing other rights of the parties as agreed to in the contract.

**DEFAULT:** In the event of default by contracting party of any provision of this contract, such party agrees to pay all collection cost, interest from date of default, and reasonable attorney's fees. If the work under this contract shall be stopped for a period exceeding 7 days through no fault or act of the contractor or, if contractor should fail to receive within 7 days after its maturity and presentation any sum certified by architect/engineer or awarded by arbitrators, then contractor may upon 7 days notice in writing to the other stop work and terminate this contract and recover from the payment for all work done and reasonable damages.

**LIEN** In consideration of contractor doing the work in this agreement, and in order to secure the payment further of said sum due or to become due, the undersigned promises to pay said sums and does hereby grant to it and its assigns, an express contractual lien and then recognize the right of the contractor to a constitutional and statutory Mechanic's Lien on the improvements and on said promises should the Contracting Party be in default hereunder. This lien was given prior to the movement of any materials onto the building site and prior to the commencement of any work by the contractor.

**SALES TAX:** On commercial remodeling or tax exempt jobs, Sales tax is not included in the prices for work proposed. Contracting Party must pay the additional sales tax, or provide to contractor a valid resale or tax exemption certificate. New Mexico gross receipts tax are not included.

**ESCALATOR CLAUSE:** Current and anticipated refining costs coupled with other economic factors in the asphalt market have recently resulted in substantially increased asphalt prices. Contractor's asphalt supplier has notified Contractor that additional price increases will be forthcoming and advised Contractor that current prices are only valid for a period 30 day period. Accordingly, Contractor reserves the right to increase the amount to reflect any increases in asphalt costs which occur prior to the date of actual performance.

**ACCEPTANCE OF CONTRACT:** By signing below, Contracting Party accepts the prices, specifications, and conditions contained herein and hereby issues Notice to proceed. Payment will be for stated prices for work + tax if applicable.

**REPRESENTATION OF CONTRACTING PARTY:** Contracting party represents that he/she is either the property owner or the owner's representative and that he/she has complete authority to enter into this contract for construction improvements at the above named location. Contractor Allied Paving Co. is relying on this representation as an inducement to perform the improvements for this project.

**GUARANTY:** As an inducement for extending credit for the above work, it is required that the undersigned individuals, jointly and severally unconditionally guarantee the full and prompt payment due contractor under the above referenced proposal. In the event of default, contractor may seek payment directly from the undersigned before going to the contracting party. The undersigned individual/s agree to remain fully bound in their individual capacity on this guaranty, regardless of any extension, forbearance, or waiver, or release, discharge or substitution of any collateral or security for the debt. This guaranty shall be binding upon and inure to the benefit of the parties, their assigns, and personal representatives.

Contractor. ALLIED PAVING COMPANY

Contracting Party.

by \_\_\_\_\_ Title President By Individual Guarantor \_\_\_\_\_  
Dated effective this \_\_\_\_\_ Day of \_\_\_\_\_ (authorized signature & Title)















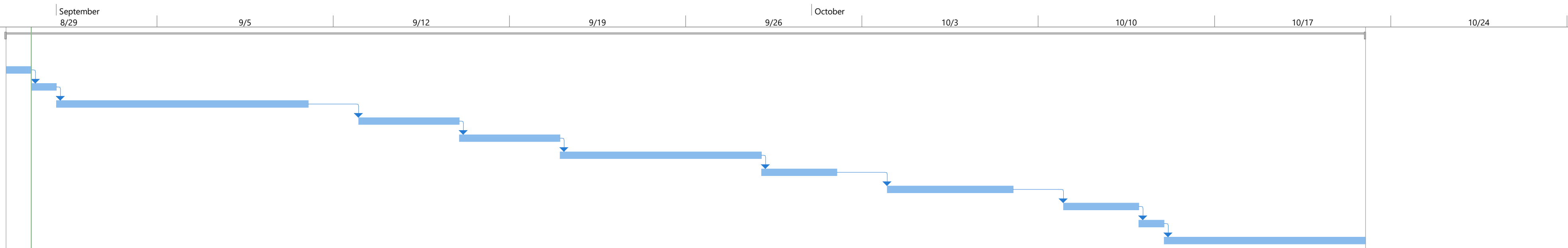








ID	Task Mode	Task Name	Duration	Start	Finish
0		<b>Commercial Construction</b>	<b>40 days</b>	<b>Mon 8/30/21</b>	<b>Fri 10/22/21</b>
1					
2		SET TCP	1 day	Mon 8/30/21	Mon 8/30/21
3		REMOVE LANDSCAPE ROCK	1 day	Tue 8/31/21	Tue 8/31/21
4		EXCAVATE TO RELOCATE IRRIGATION LINE	8 days	Wed 9/1/21	Fri 9/10/21
5		INSTALL NEW IRRIGATION LINE	4 days	Mon 9/13/21	Thu 9/16/21
6		PLACE EMBANKMENT ON IRRIGATION LINE	2 days	Fri 9/17/21	Mon 9/20/21
7		EXCAVATE AND GRADE FOR BARRIER	6 days	Tue 9/21/21	Tue 9/28/21
8		PLACE TWO SACK FOR BARRIER	3 days	Wed 9/29/21	Fri 10/1/21
9		SET BARRIER	5 days	Mon 10/4/21	Fri 10/8/21
10		PRESURE WASH BARRIER	3 days	Mon 10/11/21	Wed 10/13/21
11		PLACE EXSISTING LANDSCAPE ROCK	1 day	Thu 10/14/21	Thu 10/14/21
12		ACID STAIN	6 days	Fri 10/15/21	Fri 10/22/21



**Opinion of Probable Cost**

**Airway LPCB**

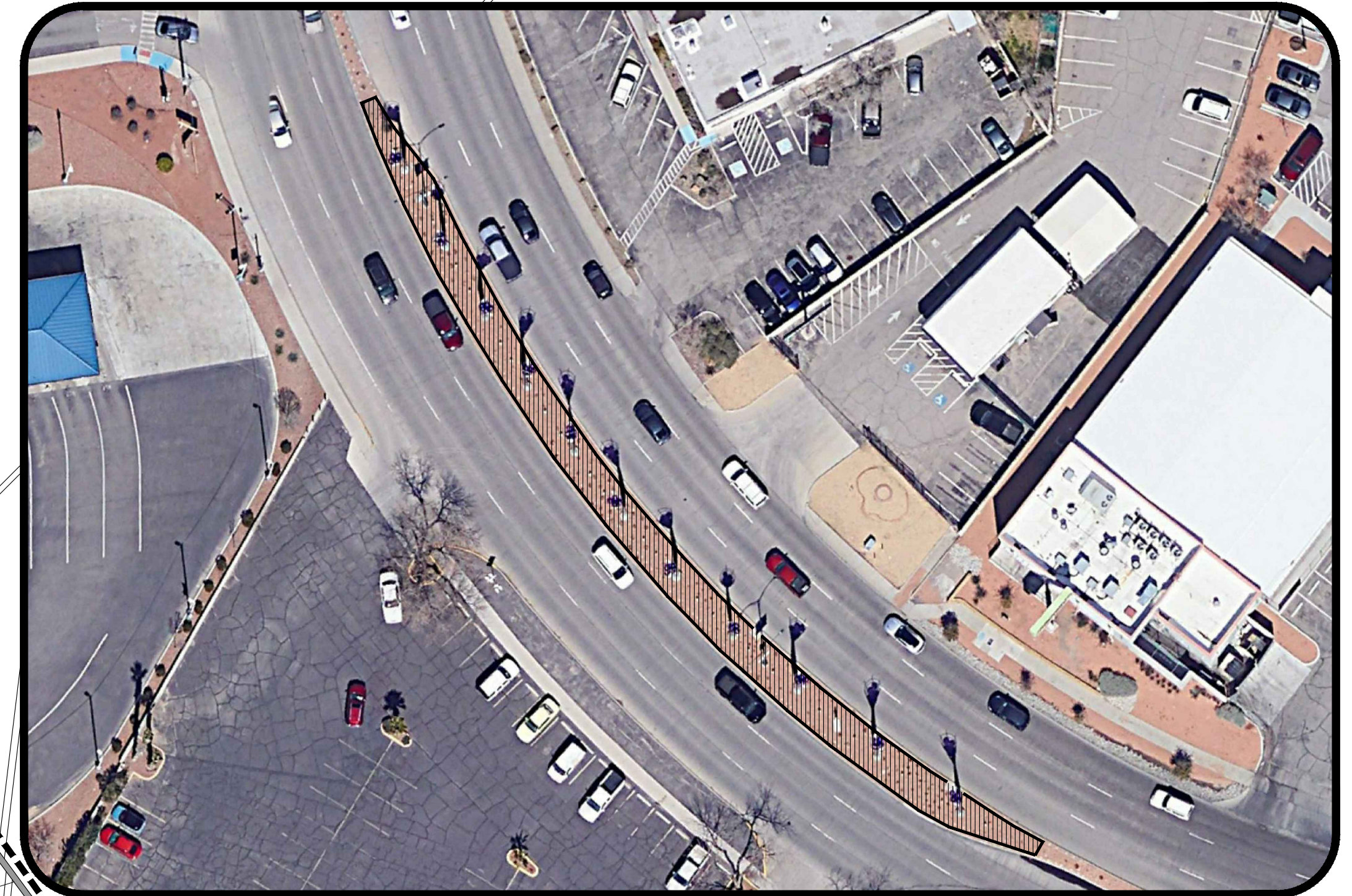
8/31/2021

<b>Item Description</b>	<b>OPCC</b>	<b>Source</b>
Mobilization/Demobilization	\$ 3,860.00	Designer's OPCC
Earthwork/2 sack		
Traffic Control	\$ 10,500.00	Street Median Bid Proposal (\$7000/corridor/month)
TMA's	\$ 16,500.00	Street Median Bid Proposal (\$275/day)
LPCB	\$ 65,600.00	Designer's OPCC
Landscape Demolition	\$ 1,000.00	Designer's OPCC
Irrigation Installation	\$ 5,000.00	Designer's OPCC
asphalt removal	\$ 2,932.00	Based on 2ft x 350ft removal at twice Street Median rate for riprap removal - \$18.85/sy (similar approach to CO#8)
acid stain barrier	\$ 12,225.00	Based on 3 internet sites that said the average cost of acid staining concrete is \$2-4/sf
<b>TOTAL</b>	<b>\$ 117,617.00</b>	

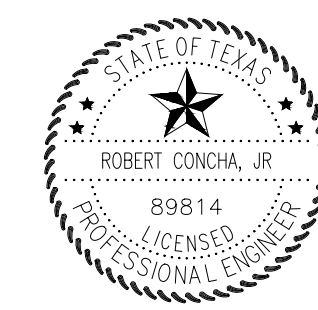
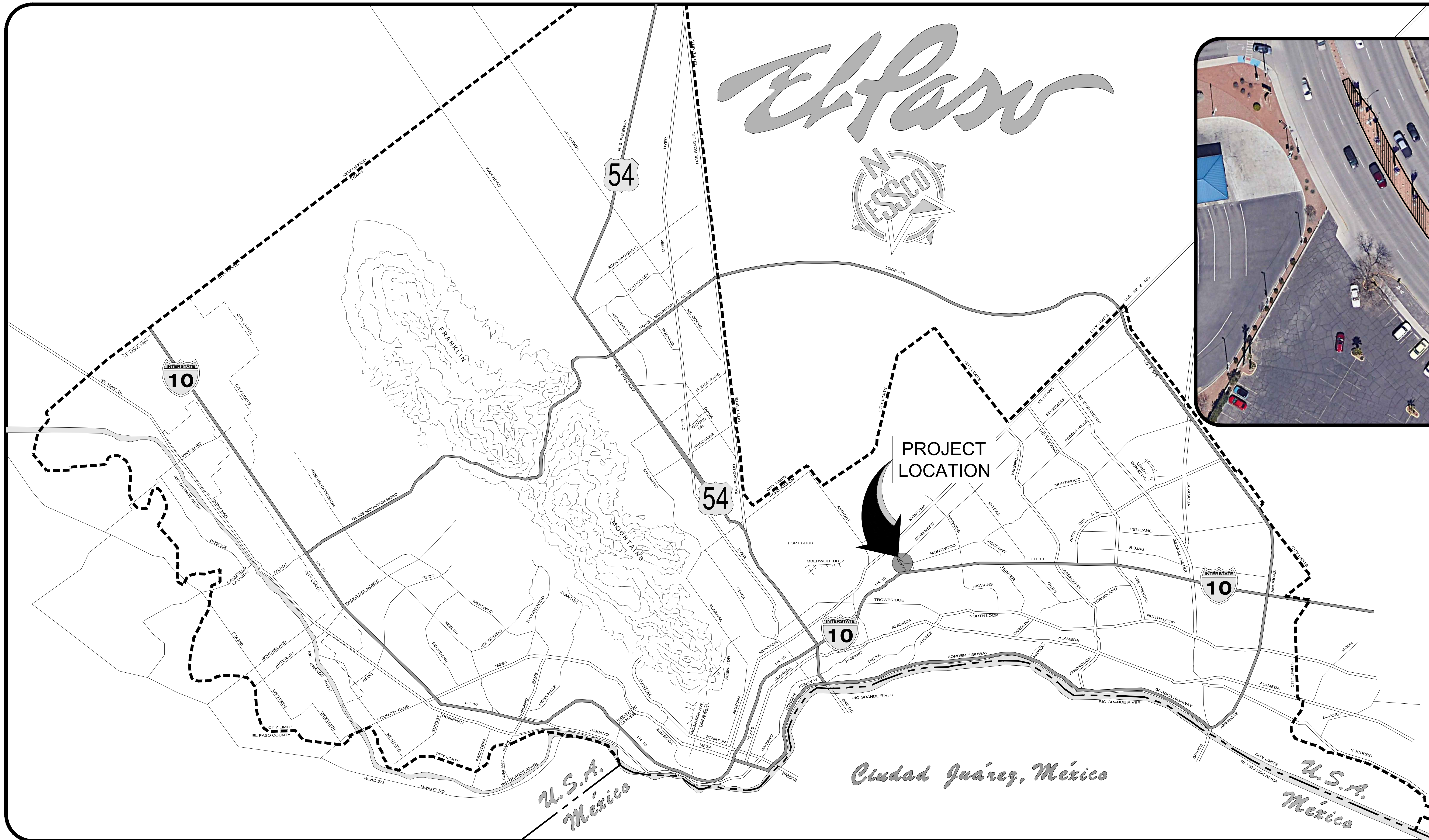
\*assuming 30 workdays or 6 wks of work

\*\* markups allowed under TxDOT General Conditions 1-9L are not included in above estimate

# El Paso



AIRWAY LPCTB  
IMPROVEMENTS  
LOCATION MAP  
SCALE: N.T.S.



06/22/2021  
Robert Concha, Jr.  
Professional Engineer

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ROBERT CONCHA, JR. PE 99814

**DESCRIPTION**

COVER	C-1
GENERAL NOTES	C-2
SITE PLAN	C-3
DETAILS	C-4
LANDSCAPE GENERAL NOTES	LG-001
LANDSCAPE DEMOLITION PLAN	LD-101
LANDSCAPE PLAN	LP-101
LANDSCAPE IRRIGATION PLAN	LI-101
LANDSCAPE IRRIGATION AS-BUILT	LI-102, LI-103, LI-104

**SHEET NO.**

## AIRWAY LPCTB IMPROVEMENTS

THE CITY OF EL PASO, TEXAS  
CAPITAL IMPROVEMENT DEPARTMENT  
218 N. CAMPBELL ST. 2nd FLOOR  
EL PASO, TX. 79901  
TELEPHONE : 915 - 212 - 0065



1000 Newman  
El Paso, Texas 79902  
tel. (915) 533-1102  
fax (915) 533-1103

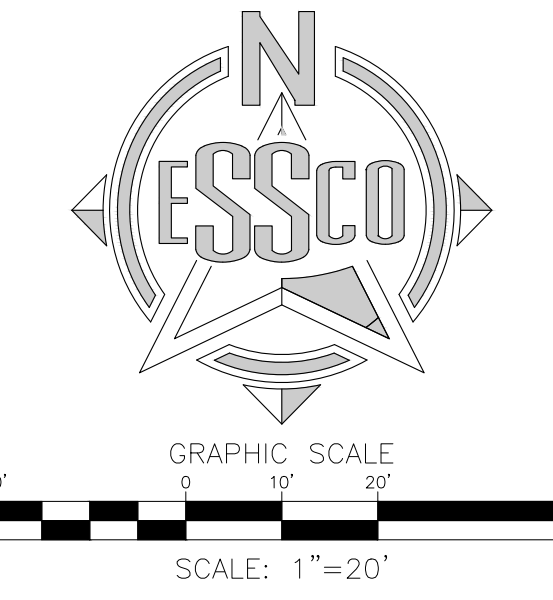
ESSCO International Inc. - Firm Registration Number: 006959

AIRWAY LPCTB IMPROVEMENTS





**PLAN**  
SCALE: 1"=20'

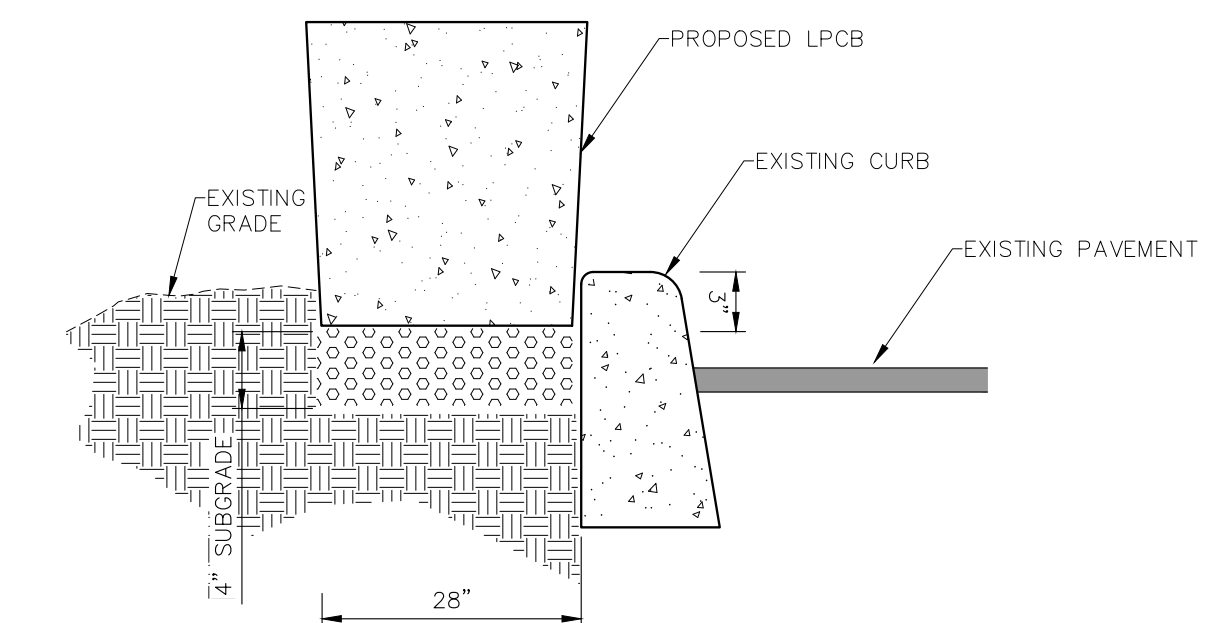


**LEGEND**

	LOW PROFILE CONCRETE BARRIER
	SIGN
	EXISTING LIGHT POLE
	TREE
	UTILITY BOX
	SUBGRADE

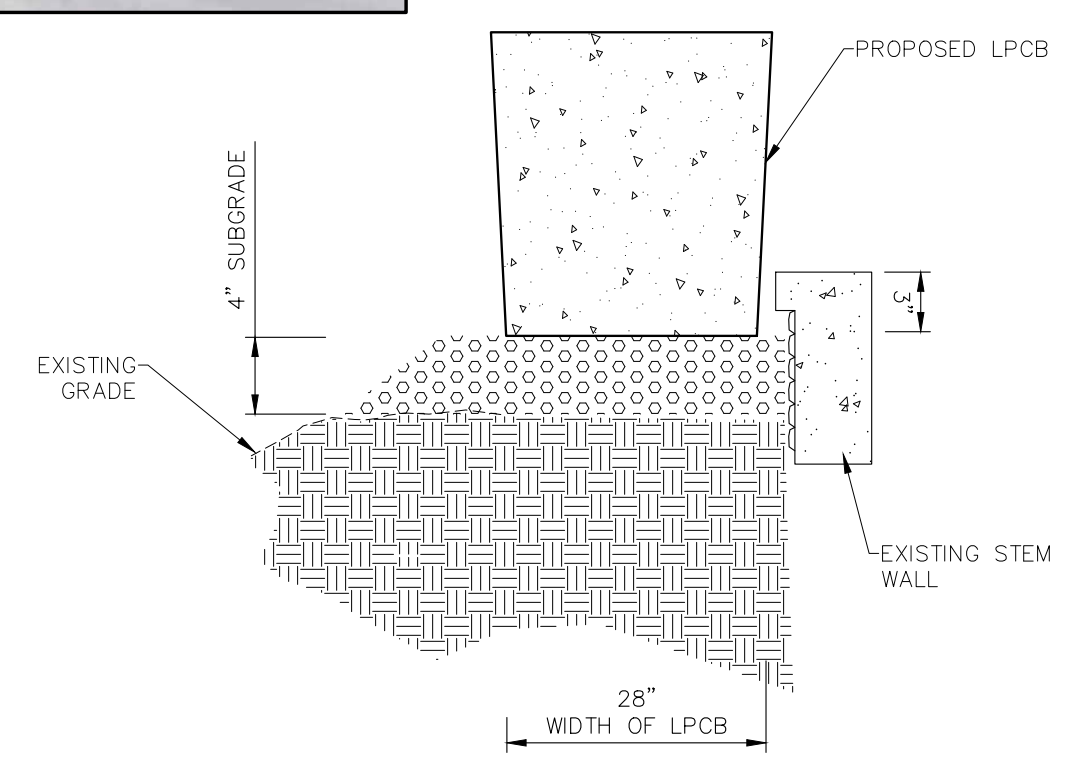
- GENERAL NOTES:**
- CONTACT UTILITY COMPANIES FOR EXACT LOCATION OF UNDERGROUND UTILITIES IN THIS AREA BEFORE EXCAVATION.
  - USE CAUTION WHEN DIGGING IN THE AREA OF EXISTING ELECTRIC, GAS MAINS, AT&T, ETC.
  - EMERGENCY RESPONSE NOTE: THE CONTRACTOR SHALL IMMEDIATELY CALL AND NOTIFY THE EL PASO WATER UTILITIES DISPATCHER AT 594-5775 WHEN A WATER OR SANITARY SEWER MAIN IS BROKEN DURING CONSTRUCTION EXCAVATION AND THE EXTEND OF THE BREAK FOR IMPLEMENTATION OF UTILITIES EMERGENCY RESPONSE ACTION PLAN. THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY THE EL PASO WATER UTILITIES FIELD INSPECTOR PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR MUST SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY OF EL PASO FOR REVIEW AND APPROVAL.

- CONSTRUCTION NOTES:**
- THE CONTRACTOR SHALL FOLLOW ALL CITY OF EL PASO STANDARDS AND SPECIFICATIONS DURING INSTALLATION INCLUDING PROVIDING AND MAINTAINING TRAFFIC CONTROL.
  - LOW PROFILE CONCRETE BARRIERS SHALL BE INSTALLED AS PER DETAIL A OR DETAIL B PENDING FIELD CONDITIONS.
  - CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.



- NOTES:**
- PROPOSED LPCB SHALL BE PLACED FLUSH WITH BACK OF EXISTING CURB.
  - SUBGRADE SHALL BE 4" CLASS II OR CLASS III MATERIAL WITH DENSITY @ 95% PER A.S.T.M. D-1557.
  - USE CAUTION WHEN DIGGING IN THE AREA OF EXISTING ELECTRIC, GAS MAINS, AT&T, ETC.
  - EMERGENCY RESPONSE NOTE: THE CONTRACTOR SHALL IMMEDIATELY CALL AND NOTIFY THE EL PASO WATER UTILITIES DISPATCHER AT 594-5775 WHEN A WATER OR SANITARY SEWER MAIN IS BROKEN DURING CONSTRUCTION EXCAVATION AND THE EXTEND OF THE BREAK FOR IMPLEMENTATION OF UTILITIES EMERGENCY RESPONSE ACTION PLAN. THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY THE EL PASO WATER UTILITIES FIELD INSPECTOR.

**DETAIL A**  
N.T.S.

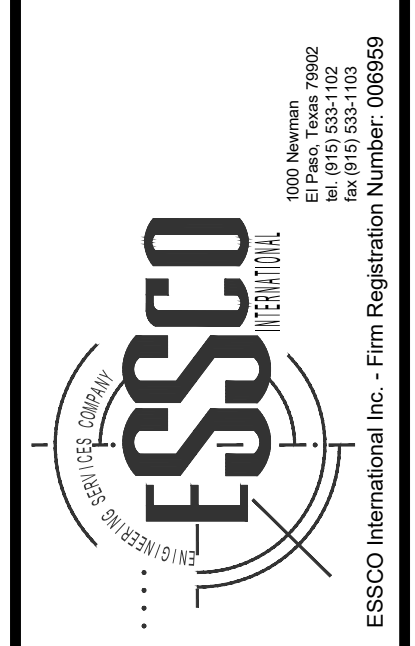
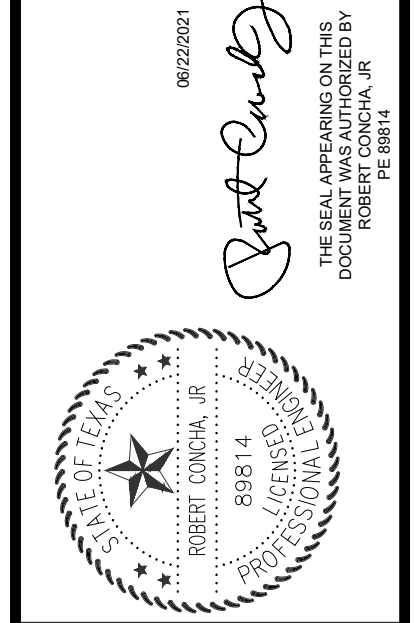


- NOTES:**
- PROPOSED LPCB SHALL BE PLACED FLUSH WITH BACK STEM WALL.
  - SUBGRADE SHALL BE 4" CLASS II OR CLASS III MATERIAL WITH DENSITY @ 95% PER A.S.T.M. D-1557.
  - SUBGRADE SHALL EXTEND 6" FROM THE EDGE OF LPCB AND TRANSITION AFTER 6" TO MATCH EXISTING GRADE.
  - USE CAUTION WHEN DIGGING IN THE AREA OF EXISTING ELECTRIC, GAS MAINS, AT&T, ETC.
  - EMERGENCY RESPONSE NOTE: THE CONTRACTOR SHALL IMMEDIATELY CALL AND NOTIFY THE EL PASO WATER UTILITIES DISPATCHER AT 594-5775 WHEN A WATER OR SANITARY SEWER MAIN IS BROKEN DURING CONSTRUCTION EXCAVATION AND THE EXTEND OF THE BREAK FOR IMPLEMENTATION OF UTILITIES EMERGENCY RESPONSE ACTION PLAN. THE CONTRACTOR SHALL ALSO IMMEDIATELY NOTIFY THE EL PASO WATER UTILITIES FIELD INSPECTOR.

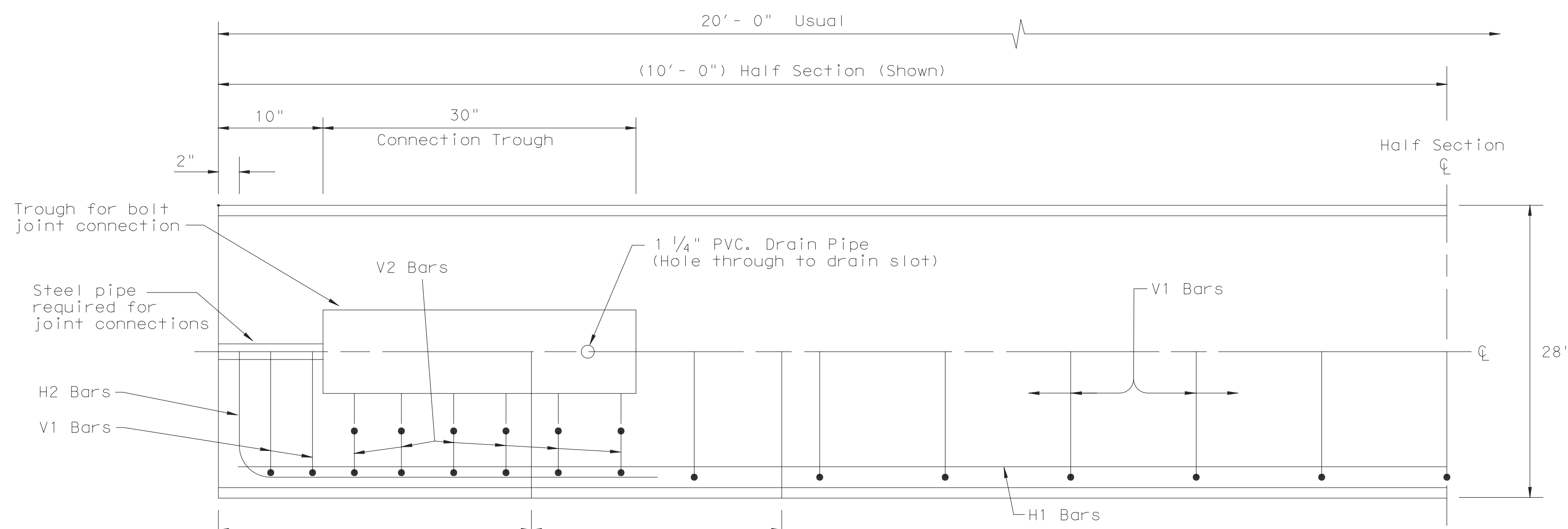
**DETAIL B**  
N.T.S.



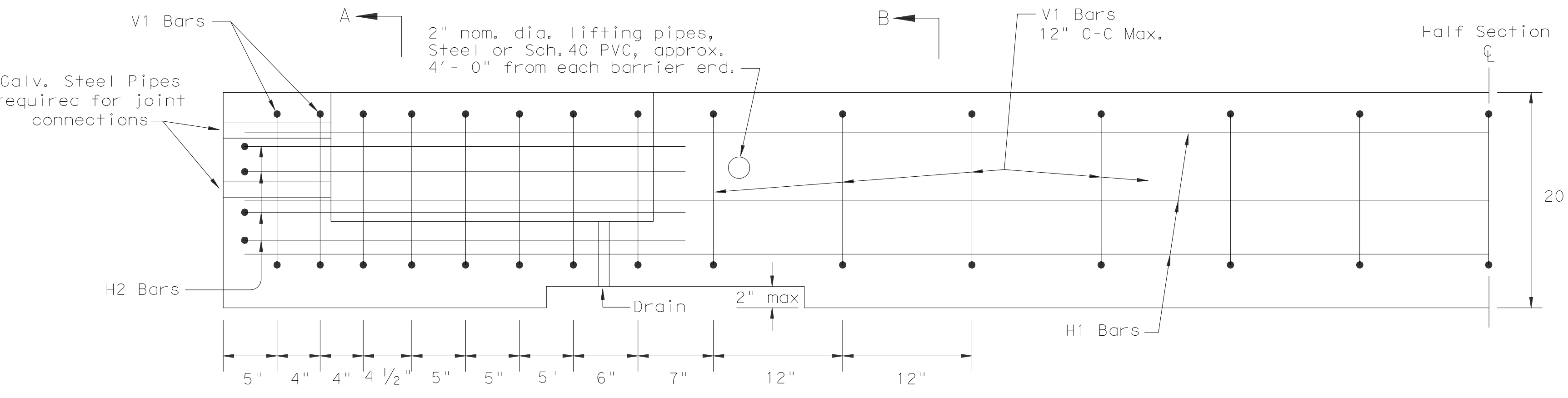
REFERENCES - BENCHMARKS	BENCHMARK:	
	DATE:	JUNE 2021
SCALE	HOR.:	
	VER.:	
PROJECT NAME	JOB:	AIRWAY LPCB IMPROVEMENTS
	DATE:	JUNE 2021
DESIGN BY: ESSCO	DATE:	
	APPD BY: ESSCO	



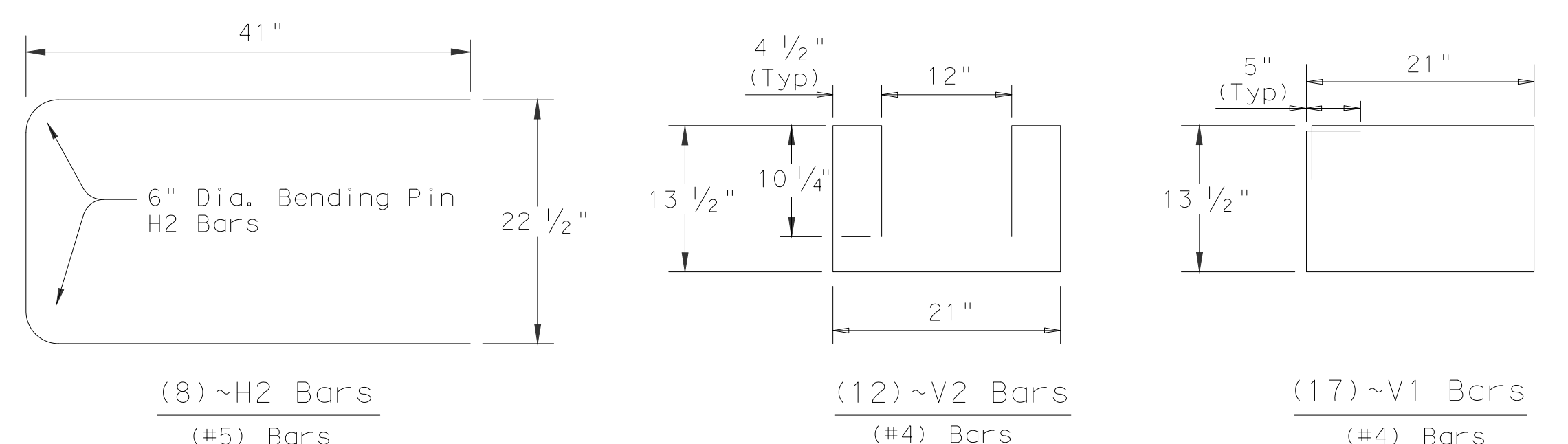
SHEET TITLE	SITE PLAN
SHEET NO.	C-3



PLAN  
(TYPE 1) BARRIER SEGMENT  
(SYMMETRICAL ABOUT CENTER LINES)

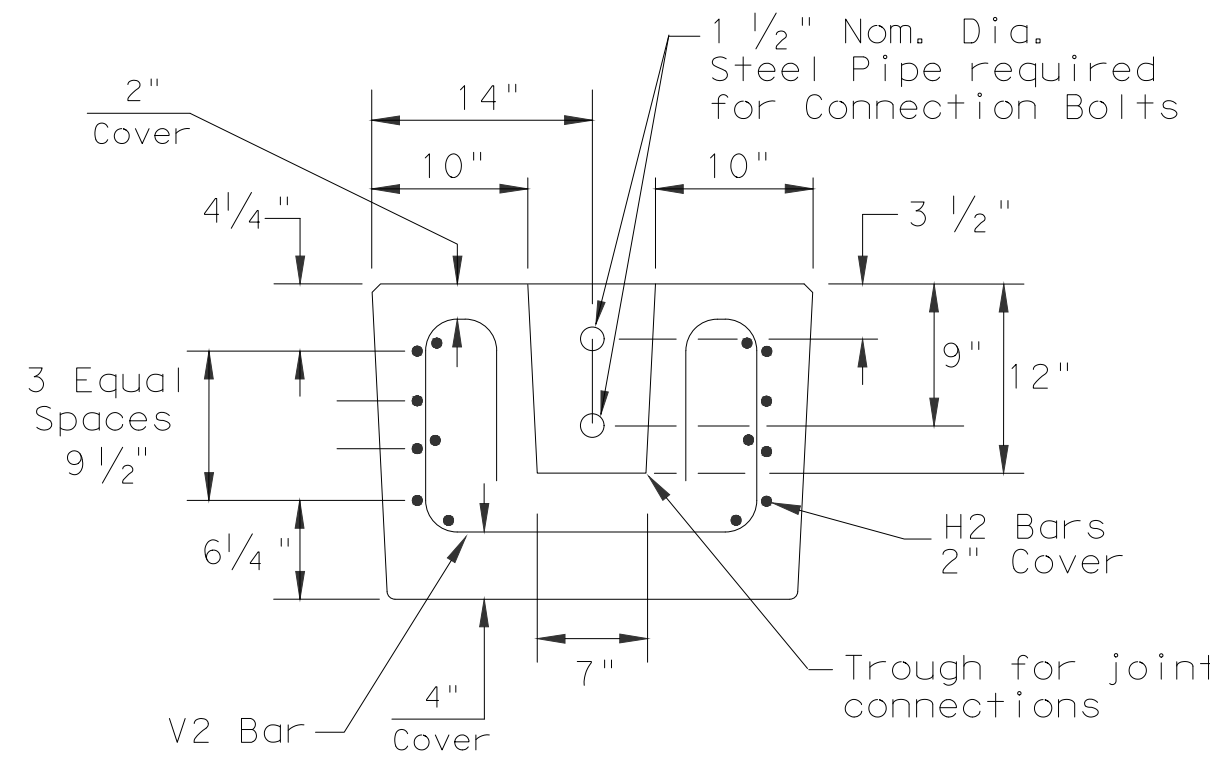


ELEVATION  
(TYPE 1) BARRIER SEGMENT  
(SYMMETRICAL ABOUT CENTER LINES)

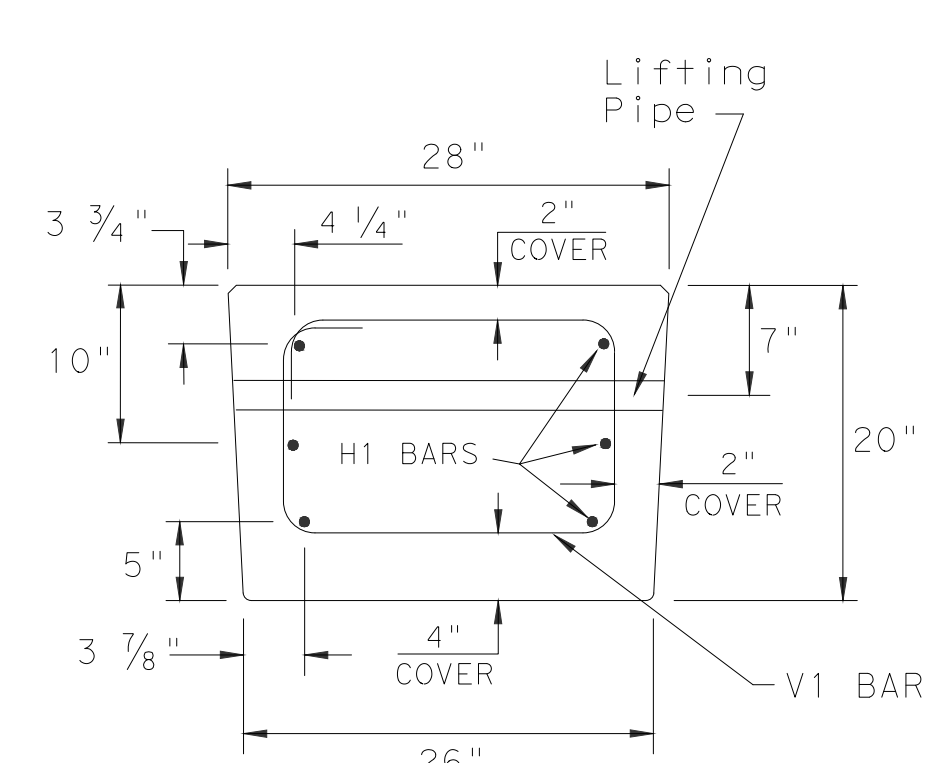


REINFORCING STEEL DETAILS  
TYPE 1 - BARRIER SEGMENT

Note: Use 2" Dia. Bending Pin, unless otherwise shown



SECTION A-A



SECTION B-B

GENERAL NOTES

1. Low Profile Concrete Barrier (LPCB), is approved for use in temporary work zone locations, where the posted speed is 45 mph, or less.
2. Concrete shall be Class H for precast barrier with a minimum compressive strength of 3,600 psi.
3. Where used, rebar reinforcement shall be Grade 60 and conform to ASTM A615.
4. Precast LPCB barrier length shall be 20 ft.
5. All barrier edges shall have 3/4" chamfer or a tooled radius.
6. Joint connection hardware shall be in accordance with Item 449, "Anchor Bolts," and is considered subsidiary.
7. Steel pipe required for joint connection bolts shall be galvanized in accordance with Item 445, "Galvanizing."
8. Welded wire reinforcement (WWR) may be used in lieu of conventional reinforcement for Type 1 barrier, and shall meet the requirements shown.

FOR CONTRACTORS INFORMATION ONLY

(TYPE 1) APPROX. QUANTITIES 20 FT. SECTION		
CONCRETE	CY	2.6
REINFORCING STEEL	LBS	330
TOTAL BARRIER WT.	LBS	11000

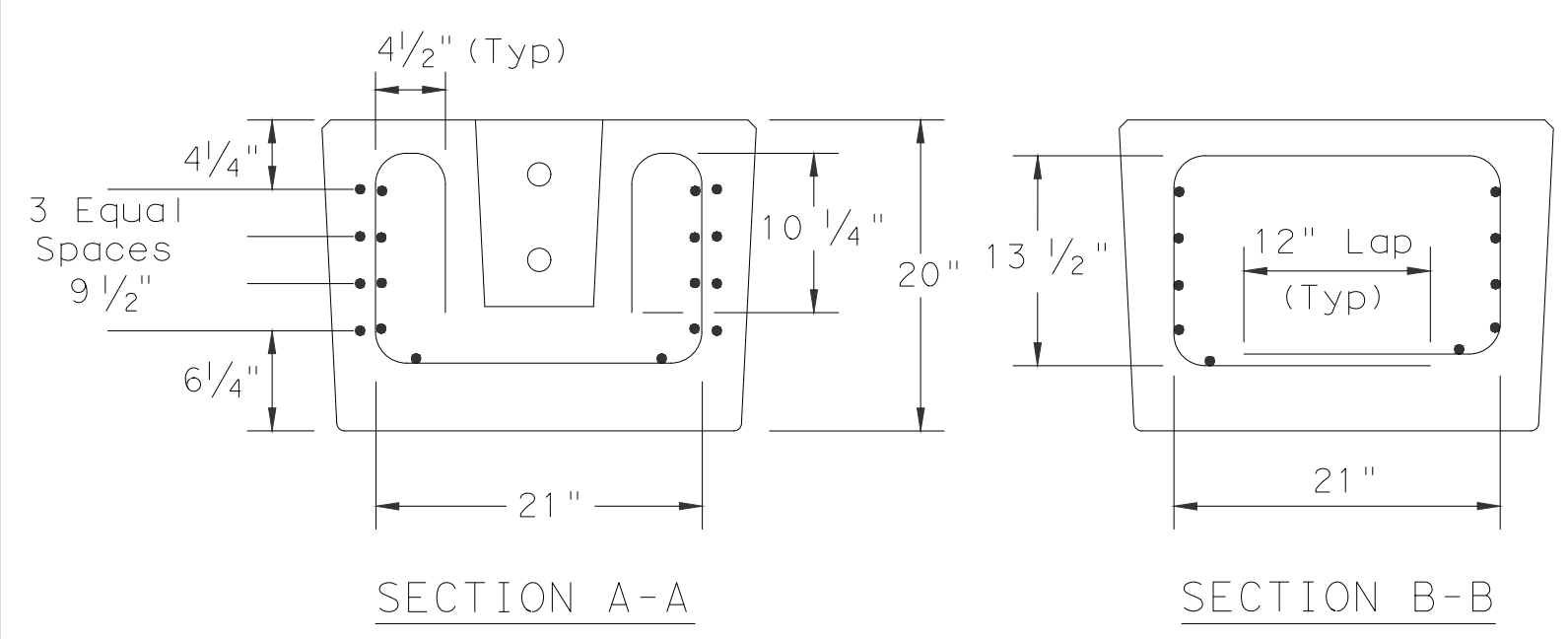
(WWR) GENERAL NOTES

1. Deformed Welded Wire Reinforcement shall conform to ASTM A497.
2. Welded wire cage may be cut or bent, if necessary, but must be approved by the Engineer.
3. Combinations of reinforcing steel and WWR are permitted, as directed by the Engineer. The dimensions from the end of the barrier section to the first wire shall not exceed 3".

REQUIRED (WWR) WIRE DESIGN

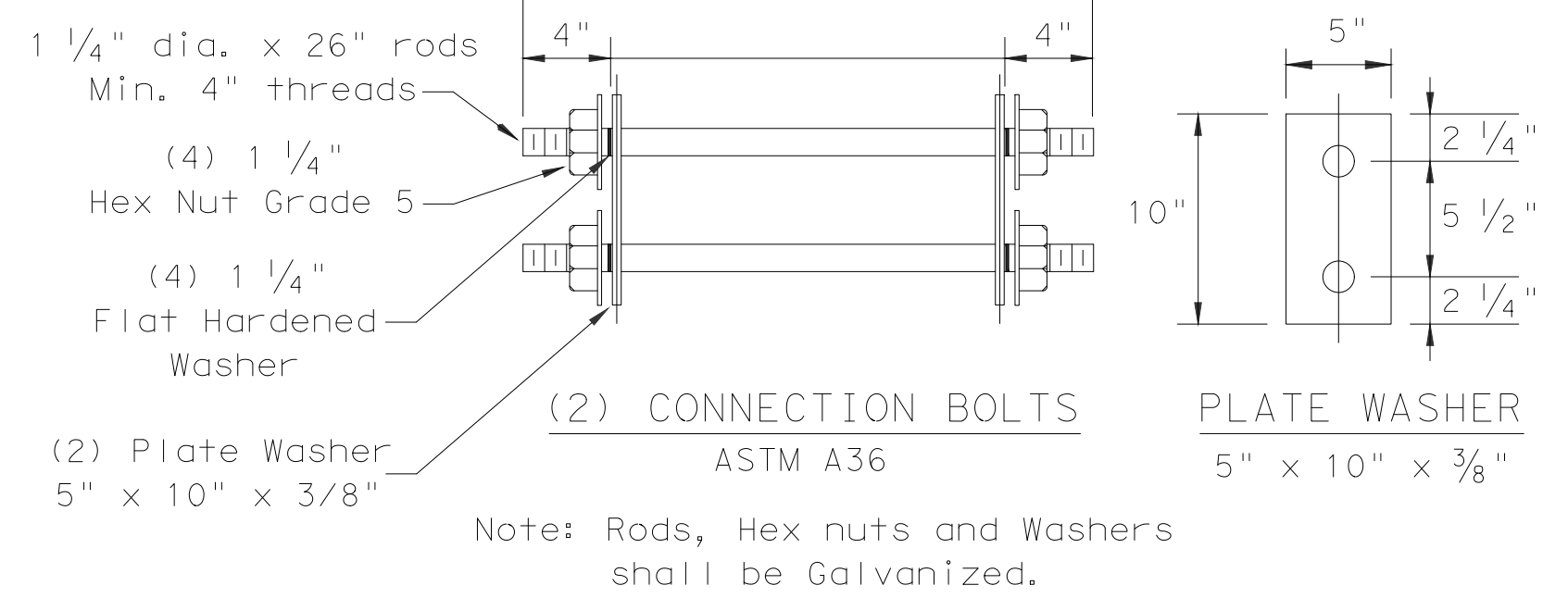
- 8 ~ (D31) Horizontal Wires (Equally spaced)
- 10 ~ (D20) Horizontal Wires (Equally spaced)
- 29 ~ (D20) Vertical Wires (Spaced as shown in Elevation View)

WELDED WIRE REINFORCEMENT (WWR) - OPTIONAL REINFORCING



SECTION A-A

SECTION B-B



Note: Rods, Hex nuts and Washers shall be Galvanized.

**Texas Department of Transportation**  
Design Division Standard

**LOW PROFILE CONCRETE BARRIER PRECAST BARRIER (TYPE 1) LPCB-13**

REFERENCES - BENCHMARKS

SCALE

PROJECT NAME: AIRWAY LPCB IMPROVEMENTS

DATE: JUNE 2021

DESIGN BY: ESSCO

APPD BY: ESSCO

ESSCO International Inc. - Firm Registration Number: 00859

THE SEAL APPEARING ON THIS DOCUMENT IS VALIDATED BY THE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS OF THE STATE OF TEXAS

06/22/2021

Robert Conner, P.E.

PROFESSIONAL ENGINEER

89814

CITY OF EL PASO

CAPITAL IMPROVEMENT

ENGINEER

ESSCO

DESIGN DIVISION STANDARD

SHEET TITLE: DETAILS

SHEET NO.: C-4





**GENERAL NOTES**

- THESE PLANS SHOW LANDSCAPE ARCHITECTURE CONSTRUCTION DOCUMENTS. THESE ARE NOT TO BE USED FOR STAKING OR SURVEYING LOT BOUNDARIES.
- LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS AND SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN ARE IN CONFLICT WITH THE PROPOSED WORK OF OTHER CONTRACTORS. IF PROBLEMS ARE DISCOVERED, CONTACT LANDSCAPE ARCHITECT TO DETERMINE A COURSE OF ACTION.
- EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION FOR ANY WORK CONTAINED IN THESE PLANS. CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. BEFORE YOU DIG, CALL:

EL PASO ELECTRIC COMPANY	(915) 543-5720
SBC	(800) DIG-TESS
TEXAS GAS SERVICE	(915) 544-6300
EMERGENCY HOTLINE	(915) 562-8411, (915) 562-2003
EL PASO WATER (WATER & SEWER)	(800) DIG-TESS
SPECTRUM	(915) 267-0254
EL PASO NATURAL GAS CO.	(800) 334-8047
TEXAS EXCAVATION SAFETY SYSTEM	(800) 344-8377

- CONTRACTOR SHALL NOTE THAT REQUESTS TO 811 DO NOT ACCOUNT FOR CITY OF EL PASO IT AND FIBER-OPTIC CABLES, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT CITY IT AT 915-212-0072 TO ACCOUNT FOR THE NEEDED SITE DATA.
- CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. KEEP AREAS FREE OF TRASH AND DEBRIS. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS AND PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT.
  - THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
  - CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS OF WORK. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

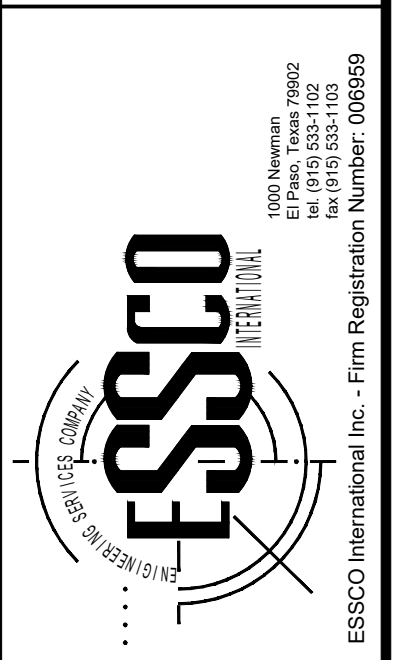
**IRRIGATION NOTES**

- ANY EXPOSED IRRIGATION PIPE SHOULD BE PROTECTED FROM FREEZE AND UV DAMAGED WITH INSULATED TAPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL SITE ELEMENTS & AREAS TO REMAIN. CONTRACTOR SHALL REPLACE IN KIND, ALL ITEMS DAMAGED DURING THE COURSE OF WORK, AS DETERMINED BY THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
- THIS DESIGN IS DIAGRAMMATIC AND FOR GRAPHIC CLARITY. ALL EQUIPMENT SHOWN IN PAVED AREA IS FOR DESIGN CLARITY ONLY AND CONSTRUCTED ELEMENTS AND OBSTRUCTIONS WHETHER NOTED ON THE PLANS OR NOT SHALL BE AVOIDED TO MINIMIZE SLEEVING. EQUIPMENT IS TO BE INSTALLED WITHIN PLANTING AREAS.
- ALL PIPE CUTS SHALL BE MITERED TO 90 DEGREES & ALL BURRS SHALL BE REMOVED PRIOR TO GLUING. PIPE THREE INCHES OR LARGER MUST HAVE FILED BEVELED EDGE A MINIMUM OF ONE FOURTH (1/4) THE WIDTH OF PIPE WALL TO ASSURE A PROPER SOLVENT WELD.
- PIPE SOLVENT WELDING PROCEDURES ON ALL JOINTS SHALL BE SPECIFIED AS FOLLOWS: FIRST USE IPS WELD-ON CLEANER, NEXT USE IPS WELD-ON PURPLE PRIMER P68 OR P70, THEN USE IPS WELD-ON GRAY GLUE #711 HEAVY DUTY. LASTLY, WIPE OFF ALL EXCESS CEMENT AND LET SET AS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL SET TIMES SHALL BE AS FOLLOWS: MIN. OF 5 MINUTES FOR 1/2" TO 1 1/4", 8 MINUTES FOR 1 1/2" TO 2" PIPE AND 2 HRS. FOR 2 1/2" TO 6" PIPE. CURE TIMES SHALL BE AS FOLLOWS: MIN. OF 20 MINUTES FOR 1/2" TO 1 1/4" PIPE, 30 MINUTES FOR 1 1/2" TO 2" PIPE, 4 HRS. FOR 2 1/2" TO 6" PIPE. WHEN HUMIDITY EXCEEDS 60%, INCREASE CURE TIME BY 50%. ONCE WELD IS SET, PIPE SHALL NOT BE MOVED FOR ANY REASON UNTIL SET TIMES HAVE BEEN ACHIEVED, WATER SHALL NOT BE TURNED ON UNTIL ALL CURE TIMES HAVE BEEN ACHIEVED.
- SLEEVING PIPE SHALL BE TWICE THE SIZE OF IRRIGATION PIPE BEING CARRIED. PIPE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. DURING CONSTRUCTION SLEEVES SHALL BE EXTENDED 24" BEYOND EDGE OF HARD SURFACES, WRAP ENDS WITH FOUR MIL PLASTIC AND TAPE WITH GOOD QUALITY PLASTIC TAPE, GRAY DUCT TAPE IS NOT ACCEPTABLE.

**IRRIGATION DEMOLITION NOTES**

- EXISTING CONDITIONS WERE DRAWN USING IRRIGATION AS-BUILTS (MARCH 2018) PROVIDED BY THE CITY OF EL PASO. IT'S CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING CONDITIONS ON SITE MATCH THE DRAWINGS. IF THERE'S ANY DISCREPANCIES, HE SHOULD NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
- CONTRACTOR SHALL FIELD VERIFY AND LOCATE EXISTING METER, BACKFLOW, CONTROLLER, AND COMPONENTS TO BE REUSED EXCEPT AS NOTED. CONTRACTOR SHALL ALSO VERIFY AND CONFIRM MINIMUM WATER PRESSURE OF 70 PSI AT POINT OF CONNECTION.
- FIELD LOCATE EXISTING MAIN LINE, REFER TO AS-BUILT LOCATION AS SHOWN ON PLANS.
- EXISTING MAINLINE AND MAILINE COMPONENTS SHALL BE REUSED EXCEPT AS INDICATED.
- EXISTING DRIP EMITTERS OUT OF LIMITS OF WORK SHALL REMAIN IN PLACE.
- REMOVE EXISTING DRIP EMITTERS THAT WILL NOT BE REUSED AND RETURN TO THE CITY OF EL PASO.

REFERENCES - BENCHMARKS	BENCHMARK:	
	BY	DATE
SCALE	HOR:	VER:
	DATE: JUNE 2021	DESIGN BY: JIP
PROJECT NAME	AIRWAY LOW PROFILE CONCRETE BARRIER	
	PROJECT NO. PCP000000	
APPD BY: JET		



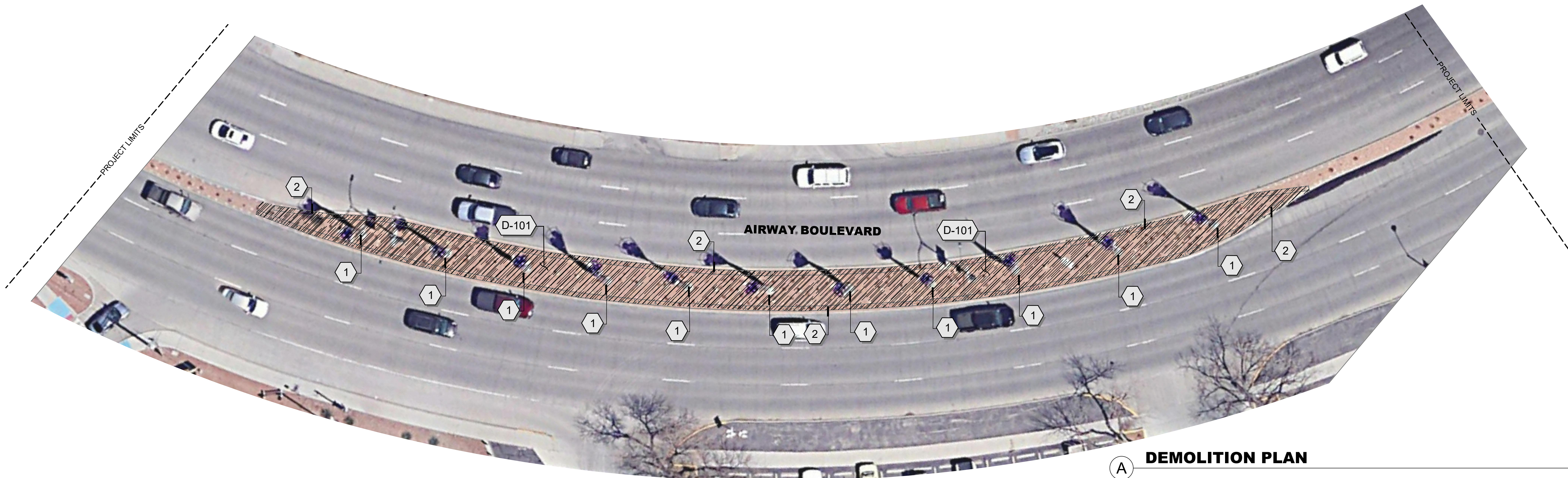
SHEET TITLE

**GENERAL NOTES**

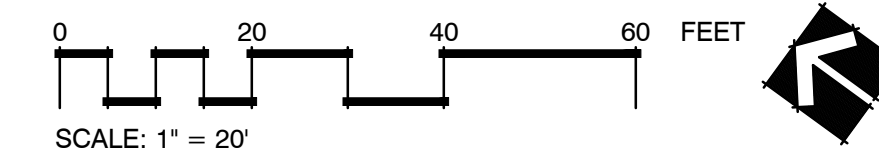
SHEET NO.

**LG-001**





**A DEMOLITION PLAN**



**KEYED NOTES**

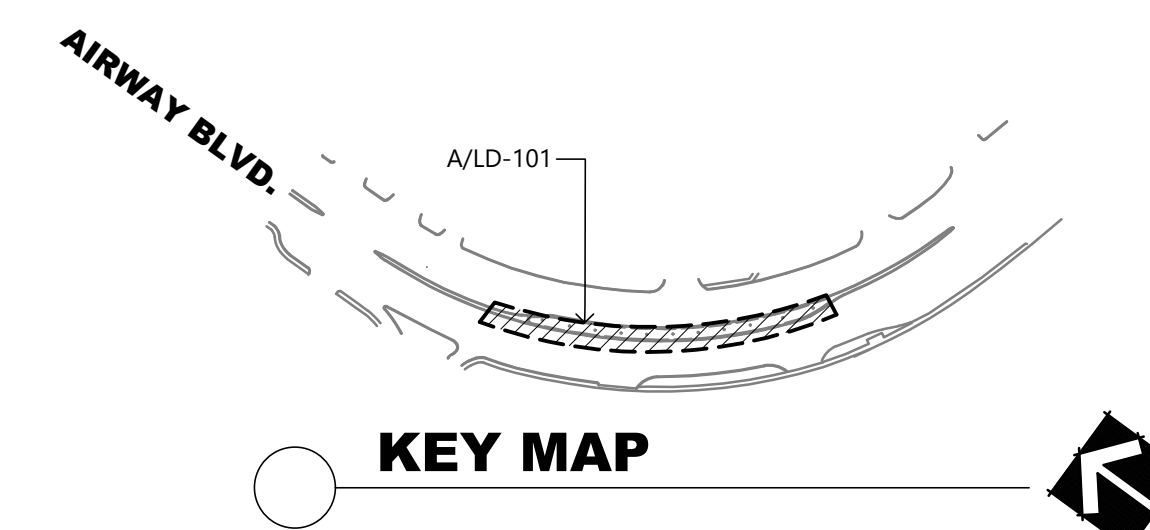
SYMBOL	DESCRIPTION	
1	EXISTING SCULPTURE TO PRESERVE AND PROTECT, REFER TO ENGINEERING PLANS.	
2	PROPOSED LOW PROFILE CONCRETE BARRIER, REFER TO ENGINEERING PLANS.	
<b>DEMOLITION</b>		
<b>SYMBOL DESCRIPTION</b>		
D-101	EXISTING LANDSCAPE MATERIAL TO BE REMOVED AND DISPOSED UNLESS OTHERWISE NOTED. EXISTING IRRIGATION TO BE ABANDONED AND CAPPED UNLESS OTHERWISE INDICATED, REFER TO IRRIGATION PLAN.	
<b>SYMBOL DESCRIPTION QTY</b>		
[Hatched Box]	EXISTING ROCK MULCH MATERIAL TO BE REMOVED AND DISPOSED.	5,112 SF

**NOTES:**

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL USE EXTREME PRECAUTION WHEN USING HEAVY MACHINERY; ALL VEHICLES ARE PROHIBITED WITHIN TREE DRIP-LINES. REFER TO TREE PROTECTION NOTES.

THE AREAS LISTED ARE STRICTLY APPROXIMATES AND HAVE BEEN PREPARED BY STANDARD BIM CALCULATIONS AND SHALL NOT BE USED FOR BIDDING PURPOSES. IT IS UNDERSTOOD THAT THIS IS ONLY AN APPROXIMATE AND THAT THE LANDSCAPE ARCHITECT WILL NOT BE LIABLE TO THE OWNER OR TO ANY THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE AREAS OF THE PROJECT, OR ANY PART THEREOF. THE AREA TOTALS WERE CREATED BASED ON A 2-D DRAWING AND THE AREAS COVERED DO NOT INCLUDE OR ACCOUNT FOR GRADING AND SLOPE VARIANCES.

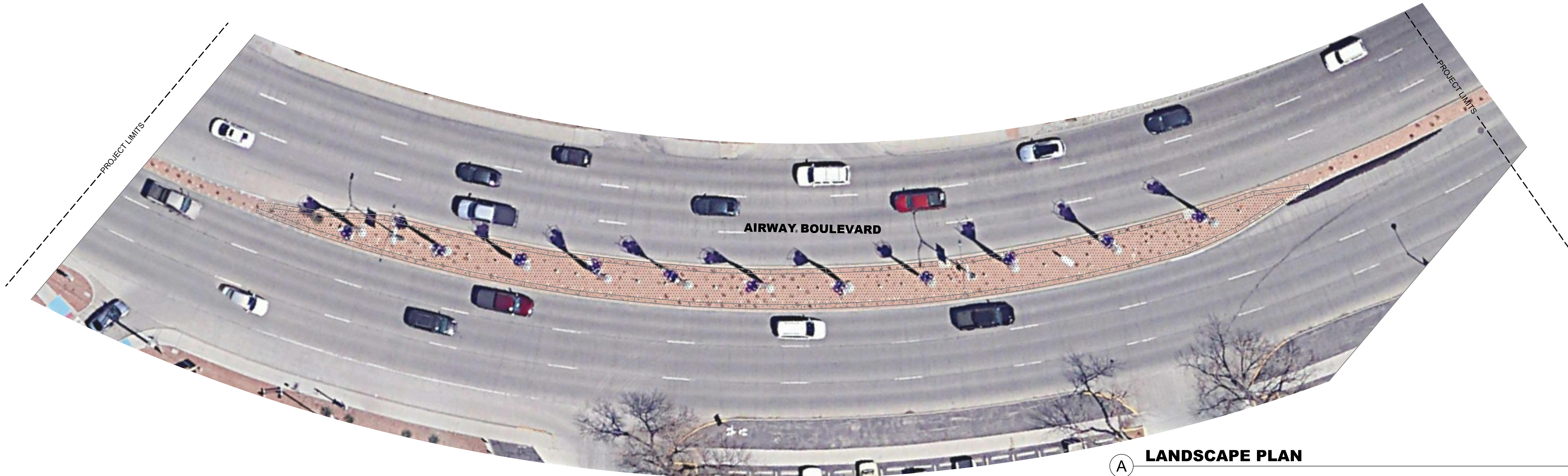


**KEY MAP**

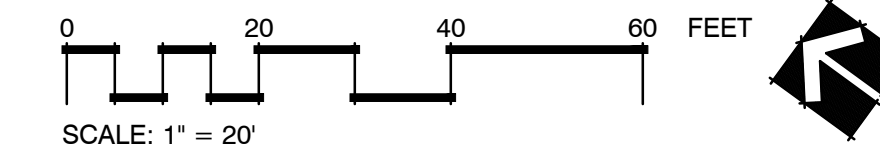
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<b>PROJECT NAME</b> AIRWAY LOW PROFILE CONCRETE BARRIER PROJECT NO. PCP000000	<b>SCALE</b> HOR: _____ VER: _____ JOB: _____ DATE: JUNE 2021 DESIGN BY: JIP APPD BY: JLT	<b>REFERENCES - BENCHMARKS</b> BENCHMARK: _____ REVISIONS BY: _____ DATE: _____
		SHEET TITLE <b>DEMOLITION PLAN</b>
SHEET NO. <b>LD-101</b>		ESSCO International Inc. - Firm Registration Number: 000589



**(A) LANDSCAPE PLAN**



**REFERENCE NOTES SCHEDULE**

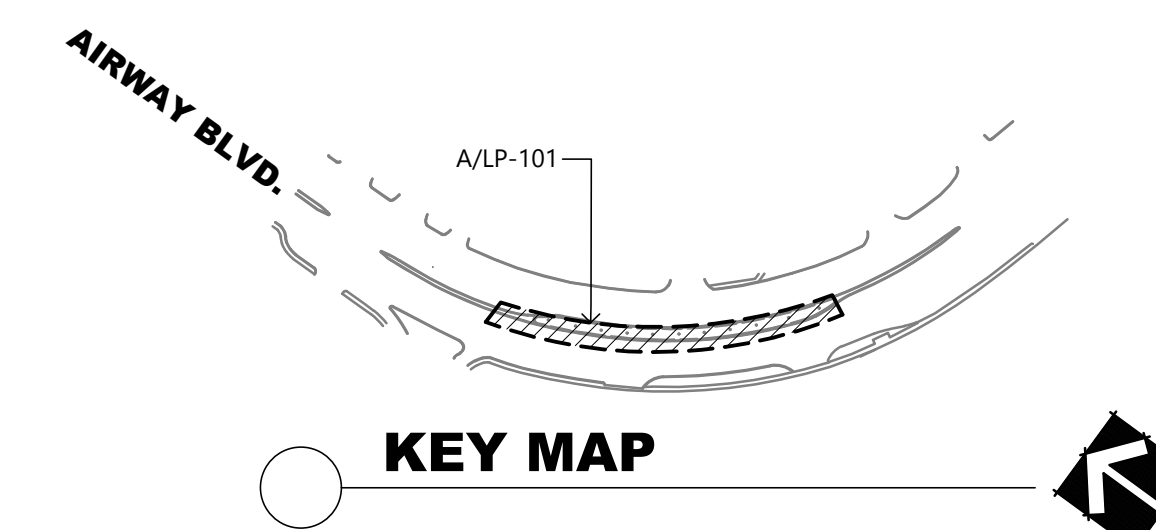
SYMBOL	DESCRIPTION	QTY
	PROVIDE AND INSTALL 3-6" ROCK MULCH, CONTRACTOR TO MATCH COLOR WITH EXISTING ROCK MATERIAL (DESERT GOLD), 6" DEPTH WITH GCI 500 SERIES FILTER FABRIC OR APPROVED EQUAL.	3,832 SF

**NOTES:**

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL USE EXTREME PRECAUTION WHEN USING HEAVY MACHINERY; ALL VEHICLES ARE PROHIBITED WITHIN TREE DRIP-LINES. REFER TO TREE PROTECTION NOTES.

THE AREAS LISTED ARE STRICTLY APPROXIMATES AND HAVE BEEN PREPARED BY STANDARD BIM CALCULATIONS AND SHALL NOT BE USED FOR BIDDING PURPOSES. IT IS UNDERSTOOD THAT THIS IS ONLY AN APPROXIMATE AND THAT THE LANDSCAPE ARCHITECT WILL NOT BE LIABLE TO THE OWNER OR TO ANY THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE AREAS OF THE PROJECT, OR ANY PART THEREOF. THE AREA TOTALS WERE CREATED BASED ON A 2-D DRAWING AND THE AREAS COVERED DO NOT INCLUDE OR ACCOUNT FOR GRADING AND SLOPE VARIANCES.

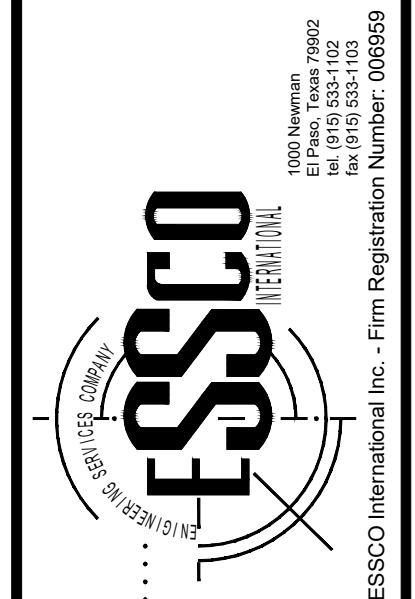


**KEY MAP**

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PROJECT NAME AIRWAY LOW PROFILE CONCRETE BARRIER PROJECT NO. PCP000000	SCALE	REFERENCES - BENCHMARKS
	HOR: _____ VER: _____ JOB: _____ DATE: JUNE 2021 DESIGN BY: JIP APPD BY: JET	BENCHMARK:
	DATE	REVISIONS
		BY

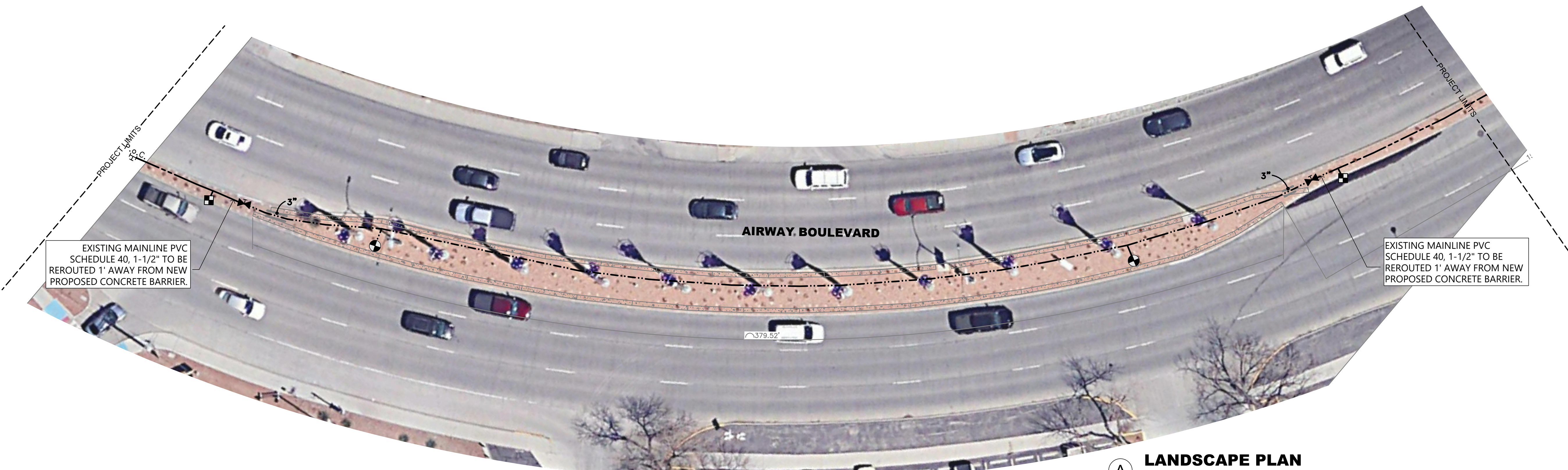


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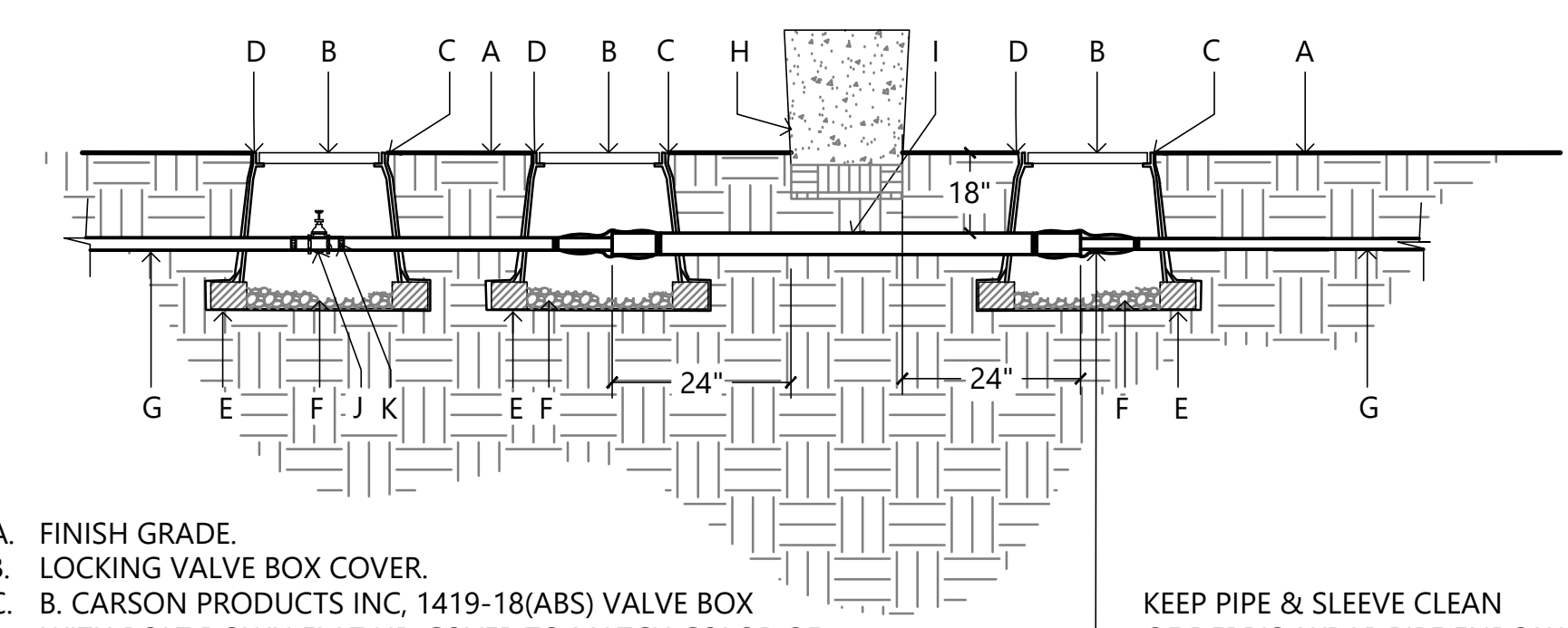
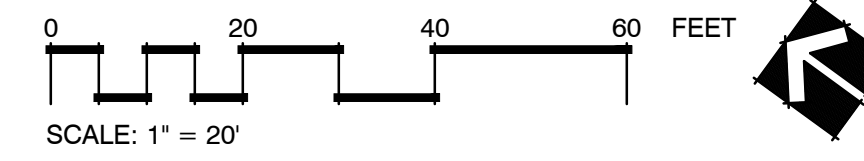
**LANDSCAPE PLAN**

SHEET NO.

**LP-101**



**(A) LANDSCAPE PLAN**



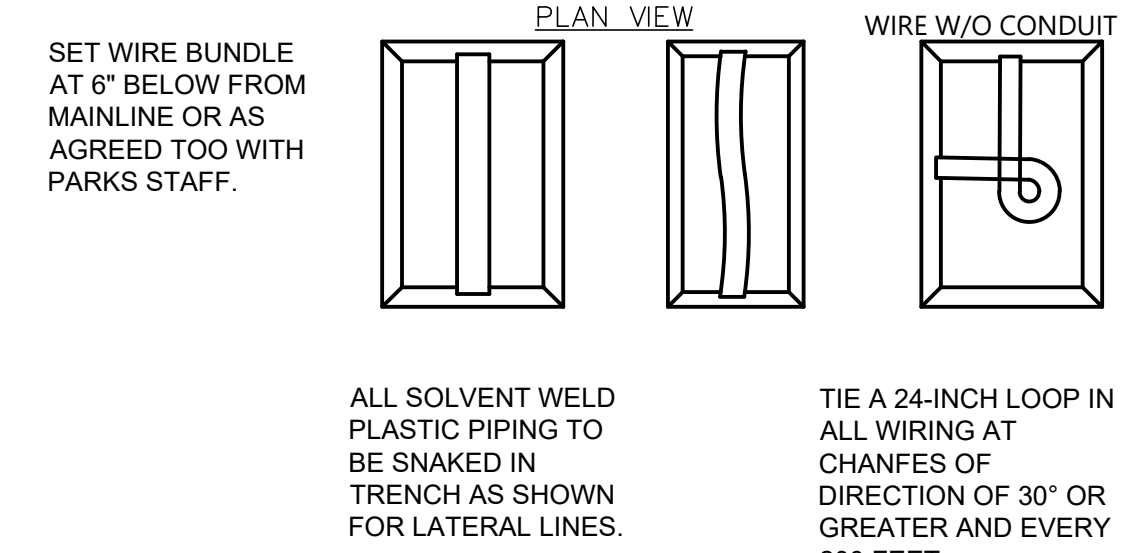
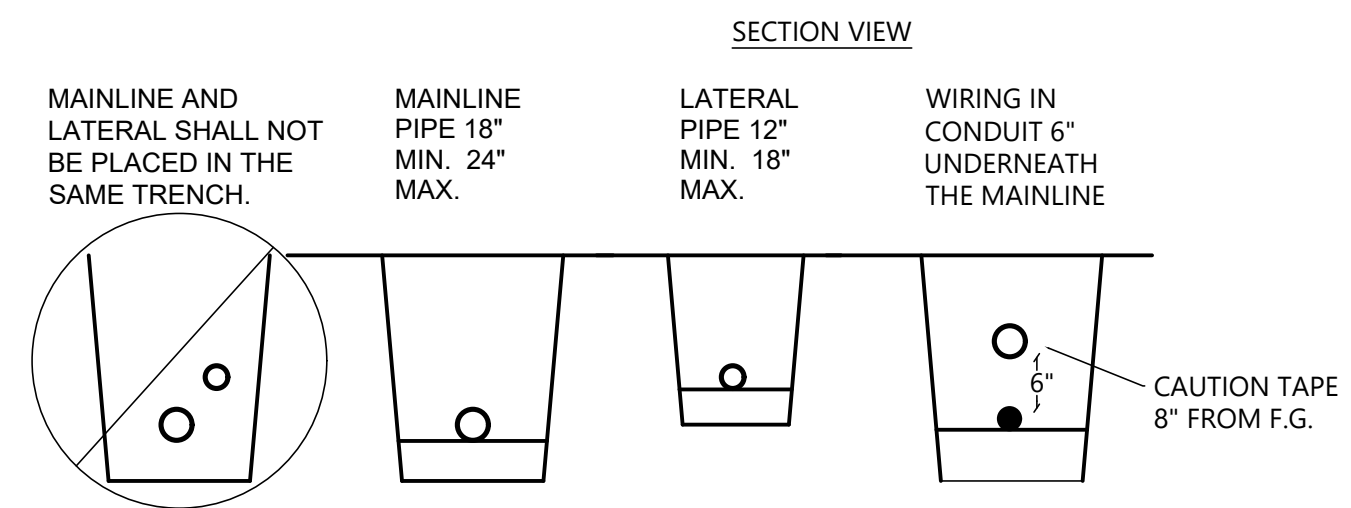
- A. FINISH GRADE.
- B. LOCKING VALVE BOX COVER.
- C. CARSON PRODUCTS INC, 1419-18(ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISH MATERIAL AND 8" EXTENSIONS AS NECESSARY.
- D. PROVIDE GC1 500 SERIES WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX.
- E. 8" X 8" X 16" CMU SOLID CONCRETE BLOCK.
- F. 4" LAYER OF 3/8" PEA GRAVEL.
- G. MAINLINE.
- H. PROPOSED LPCB.
- I. NEW PROPOSED PVC IRRIGATION SLEEVE, SEE PLAN.
- J. NEW ISOLATION VALVE.
- K. FLANGE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE).

KEEP PIPE & SLEEVE CLEAN OF DEBRIS. WRAP PIPE ENDS W/ 4 MIL PLASTIC & TAPE W/ 3M WEATHERPROOF TAPE (TYP).

NOTE: ADD CONTRACTOR SHALL PROVIDE AND INSTALL 18X24 VALVE BOXES AT EACH END OF SLEEVE OR CHANGE OF DIRECTION

**(B) IRRIGATION SLEEVE DETAIL**

NOT TO SCALE

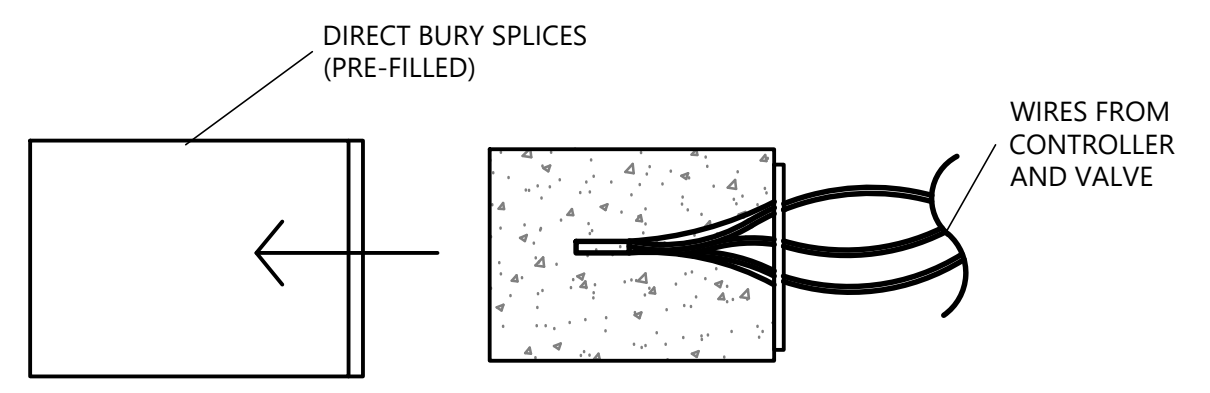


- MAINLINE AND LATERAL SHALL NOT BE PLACED IN THE SAME TRENCH.
- MAINLINE PIPE 18" MIN. 24" MAX.
- LATERAL PIPE 12" MIN. 18" MAX.
- WIRING IN CONDUIT 6" UNDERNEATH THE MAINLINE
- CAUTION TAPE 8" FROM F.G.
- SET WIRE BUNDLE AT 6" BELOW FROM MAINLINE OR AS AGREED TOO WITH PARKS STAFF.
- ALL SOLVENT WELD PLASTIC PIPING TO BE SNAKED IN TRENCH AS SHOWN FOR LATERAL LINES.
- TIE A 24-INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30" OR GREATER AND EVERY 200 FEET.

- NOTES:
- A. BOTTOM OF EXCAVATED TRENCH WHERE NONE ROCKY SOILS ARE EXPOSED (ENCOUNTERED).
  - B. IRRIGATION SYSTEM PIPING.
  - C. MINIMUM 4" DEEP BEDDING SANDY SOILS MATERIAL WHERE ROCKY SOILS ARE EXPOSED.
  - D. IRRIGATION SYSTEM VALVE WIRING.
  - E. BACKFILL SOILS MATERIAL MAY BE NATIVE SOILS IF IT IS FREE OF CALICHE OR STONES LARGER THAN 1" IN SIZE AND ORGANIC MATTER OR WASTE DEBRIS. SOILS COMPACTION IN TURF AREAS TO BE 80% TO 85% DENSITY BY ASTM D-1557 STANDARD AND AT 85% DENSITY UNDER PAVED OR HARDSCAPE SURFACES.

**(C) PIPE/WIRE IN TRENCH**

NOT TO SCALE

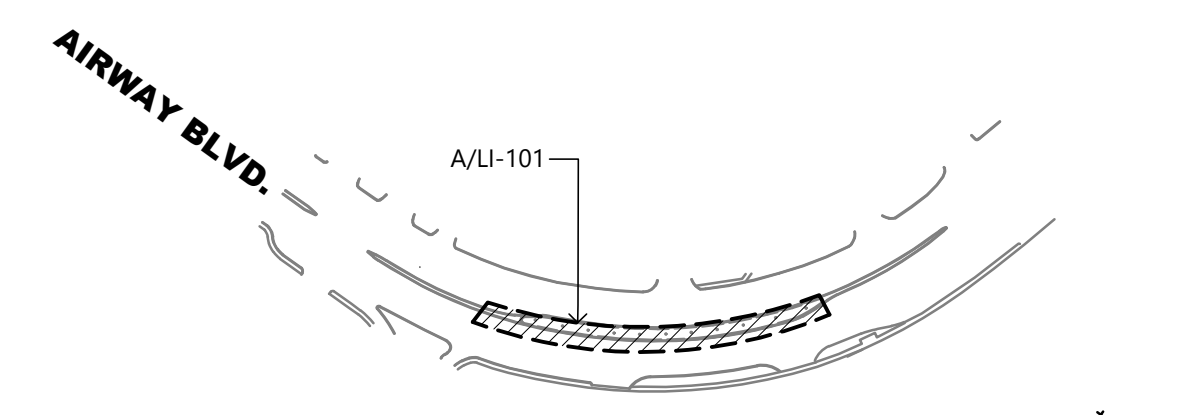


- NOTE:
- THREE STEP OPERATION DBR/Y-6 CONNECTORS ONLY.
  - WIRE NOT PROVIDED WITH KIT.
  - TWIST WIRES TOGETHER PRIOR INSERTION.

**(D) WIRE SPlicing DEAL**

NOT TO SCALE

- NOTES:
- CONTRACTOR TO PROVIDE AND INSTALL ALL ITEMS LISTED IN THE IRRIGATION SCHEDULE UNLESS OTHERWISE NOTED.
  - CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA AND ADJACENT SITES. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE SUB-CONTRACTOR'S EXPENSE.
  - CONTRACTOR SHALL ENSURE THE IRRIGATION IS NOT DISTURBED TO THE AREAS OUTSIDE THE SCOPE. IF ANY OF THE WORK TO BE PERFORMED WILL DISRUPT IRRIGATION, THE IRRIGATION OUTSIDE THE SCOPE WETHER INTENTIONALLY OR UNINTENTIONALLY FOR MORE THAN ONE WEEK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE AREAS AFFECTED AT NO ADDITIONAL COST TO THE OWNER.



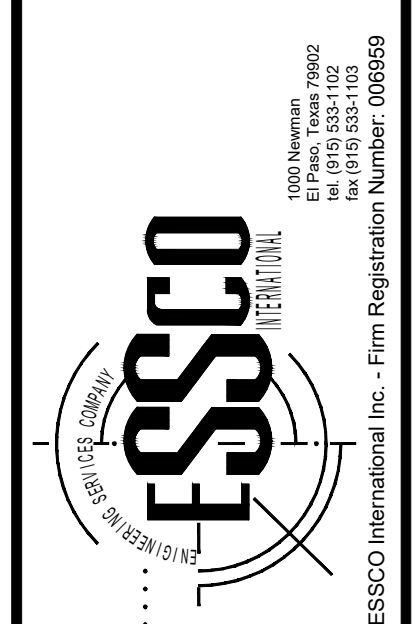
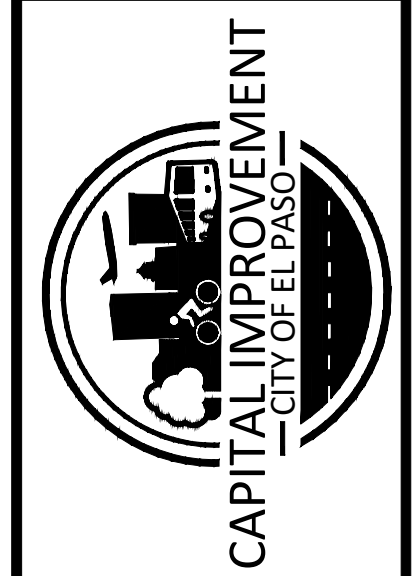
**KEY MAP**

IRRIGATION SCHEDULE	
SYMBOL	MANUFACTURER/MODEL
	NEW LOCATION FOR NEW VALVE. CONTRACTOR CONNECTED TO EXISTING LATERALS. CONTRACTOR TO VERIFY ALL EXISTING EMITTERS FROM ABANDONED LINES ARE RECONNECTED.
	EXISTING CONTROL VALVE TO BE REMOVED AND RETURNED TO STREET AND MAINTENANCE.
	NEW PROPOSED ISOLATION VALVE
	POINT OF CONNECTION 1-1/2"
	EXISTING IRRIGATION MAINLINE: TO PRESERVE AND PROTECT
	NEW PROPOSED IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout
	Valve Number
	Valve Flow
	Valve Size

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REFERENCES - BENCHMARKS	BENCHMARK:
SCALE	HOR: _____
PROJECT NAME	VER: _____
AIRWAY LOW PROFILE CONCRETE BARRIER	JOB: _____
PROJECT NO. PCP000000	DATE: JUNE 2021
	DESIGN BY: JIP
	DATE: _____
	APPD BY: JLT
	BY: _____
	REVISIONS
	DATE



SHEET TITLE  
**IRRIGATION PLAN**

SHEET NO.

**LI-101**





