

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

DEPARTMENT: Capital Improvement
AGENDA DATE: October 12, 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: 8

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 \$264,139.21 to J.A.R. Concrete Inc. for the increase in landscaping, irrigation and other elements to the project under Contract No. 2019-452 Paso Del Norte (PDN) Port of Entry (POE) Roundabout Improvements. This notice provides for the additional scope of work, which allows for additional capacity to the awarded contract. The new contract sum, including this change order notice and previous change order notices is \$2,662,492.51. The City Manager, or designee, is authorized to execute any documents and contract amendments needed to carry out the intent of this resolution.

BACKGROUND / DISCUSSION:

This change order is to provide additional landscaping and irrigation at the Paso del Norte Roundabout located at the Paso del Norte Port of Entry. The scope of work includes constructing, furnishing, and installing additional plant material, planters, landscape rock, irrigation system, and traffic control. In addition, the public art piece will be elevated by one foot. The total amount of the change order is \$264,139.21.

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:

2018 CO's

BOARD / COMMISSION ACTION:

N/A

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

DEPARTMENT HEAD:

Gvette Hernandez

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 \$264,139.21 to J.A.R. Concrete Inc. for the increase in landscaping, irrigation and other elements to the project under Contract No. 2019-452 Paso Del Norte (PDN) Port of Entry (POE) Roundabout Improvements. This notice provides for the additional scope of work, which allows for additional capacity to the awarded contract. The new contract sum, including this change order notice and previous change order notices is \$2,662,492.51. The City Manager, or designee, is authorized to execute any documents and contract amendments needed to carry out the intent of this resolution.

ADOPTED THIS _____ DAY OF _____ 2021.


CITY OF EL PASO:

Oscar Leeser
Mayor

ATTEST:

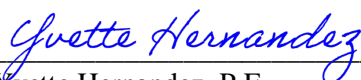
Laura D. Prine
City Clerk

APPROVED AS TO FORM:



Omar De La Rosa
Assistant City Attorney

APPROVED AS TO CONTENT



Yvette Hernandez, P.E.
Grant Funded Program Director

CITY OF EL PASO CONSTRUCTION CHANGE ORDER

CONSTRUCTION CHANGE ORDER NO.: <u>3</u>		DATE: <u>July 30, 2020</u>		<input type="checkbox"/> SCOPE CHANGE
PROJECT: <u>Paso Del Norte (PDN) Port of Entry (POE) Roundabout Improvements</u>		SOLICITATION NO.: _____		<input checked="" type="checkbox"/> CONSTRUCTION CHANGE
		CSJ: 0924-06-530 Solicitation: 2019-452		
Original Contract Amount: \$ <u>2,394,924.50</u>			Contract Time to Substantial Completion: <u>218</u>	
Net Change by previous Change Orders: \$ <u>3,428.80</u>			Total days added due to Change Orders and CQN's: <u>0</u>	
Net Change by previous Construction Quantity Notices: \$ <u>-</u>			Total days added for this Change Order: <u>0</u>	
Amount of this Construction Change Order: \$ <u>264,139.21</u>			New Contract Time to Substantial Completion: <u>218</u>	
New Amended Contract Amount: \$ <u>\$2,662,492.51</u>			Current Substantial Completion Due Date: <u>NA</u>	
Change Order Percentage: <u>11.17%</u>				
CONTRACTOR NAME: <u>J.A.R. Concrete Inc.</u>				

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

- **Scope of work:** Increase in landscaping and irrigation elements as well as introduction to various elements that were not previously part of the original drawings. Increase elevation of the Art piece by a foot. The Scope of Work shall include constructing, furnishing, and installing all the new elements in accordance with the updated drawings, details, dimensions, and requirements.
- **Specifications:** Specifications shall remain unchanged, using TxDOT Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges Items 192 Landscaping Planting, 193 Landscape Establishment, 1002 Landscape Amenity, 1005 Loose Aggregate for Groundcover. Include new specification 160 Topsoil
- **Drawings:** Revised sheets Structural Sheets S,0 – S,5, Landscape General Notes LG-001 – LG-002, Landscape Plan Sheets LP101 – LP104, Irrigation Schedules LI-101 – LI-103, Construction Details LC-501 – LC-510, Landscape Details Sheets LP-501, Irrigation Details LI-501.

- Cost and Bid Schedule:

- Add new item 192-6002 PLANT MATERIAL (1-GAL) with an estimated quantity of 435 EA with a unit price of \$20.94/EA.
 - Add new item 192-6074 PLANT MATERIAL (25-GAL) with an estimated quantity of 12 EA with a unit price of \$376.12/EA.
 - Add new item 192-6004 PLANT MATERIAL (5-GAL) (CACTUS) with an estimated quantity of 282 EA with a unit price of \$44.47/EA.
 - Add new item 193-6003 PLANT REPLACEMENT (1-GAL) with an estimated quantity of 340 EA with a unit price of \$20.14/EA.
 - Add new item 193-6010 PLANT REPLACEMENT (30-GAL) with an estimated quantity of 12 EA with a unit price of \$424.00/EA.
 - Add new item 1002-6002 112"X18" PLANTER with an estimated quantity of 7 EA with a unit price of \$7,416.03/EA.
 - Add new item 1002-6003 96"x16" PLANTER with an estimated quantity of 18 EA with a unit price of \$3,813.88/EA.
 - Add new item 1002-6004 60"x14" PLANTER with an estimated quantity of 10 EA with a unit price of \$2,053.75/EA.
 - Add new item 10005-6003 LOOSE AGGRE FOR GROUNDCOVER (TYPE III) with an estimated quantity of 12 CY with a unit price of \$ 143.10/CY.
 - Add new item STAR STRUCTURE MODIFICATION with a quantity of 1 LS with a unit price of \$1060.00/LS
 - Add new item STAR STRUCTURE ADDITIONAL REINFORCEMENT with an estimated quantity of 10 CY with a unit price of \$40.50/CY
 - Add new item 160-6005 FURNISHING AND PLACING TOP SOIL with an estimated quantity of 13 CY with a unit price of \$104.89/CY
 - Add new item FRENCH DRAIN with an estimated quantity of 80 LF with a unit price of \$13.52/LF
 - Add new item 531-6032 CONC SIDEWALKS SPECIAL (TYPE A) (PLANTER BASE) with an estimated quantity of 75 SY with a unit price of \$62.20/SY
- The items below already exist in the contract but will be added at a different unit price
- Add new item 170 6001 IRRIGATION SYSTEM with a quantity of 1 LS with a unit price of \$46,878.28/LS
 - Add new item 193 6007 IRRIGATION OPER AND MAINT with a quantity of 12 MO with a unit price of \$174.90/MO
 - Add new item 193 6001 PLANT MAINTENANCE with a quantity of 12 MO with a unit price of \$492.90/MO
 - Add new item 192 6004 PLANT MATERIAL (5-GAL) with an estimated quantity of 86 EA with a unit price of \$34.72/EA
 - Add new item 192 6017 VEGETATION BARRIER with an estimated quantity of 207 SY with a unit price of \$2.09/SY
 - Add new item 193 6005 PLANT REPLACEMENT (5-GAL) with an estimated quantity of 260 EA with a unit price of \$31.80/EA
 - Add new item 1005 6002 LOOSE AGGR FOR GROUNDCOVER (TYPEII) with an estimated quantity of 17 CY with a unit price of \$130.38/CY
 - Add new item 500 6001 BARRICADES SIGNS AND TRAFFIC HANDLING with an estimated quantity of 1 MO with a unit price of \$6,450.00/MO

- **Time:** 60 working days will be allowed in order for this work to take place.

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

- Summary:

INCREASE contract amount by \$264,139.21

INCREASE in the contract time. 60 days will be allotted for this work to take place. Additional contract time will depend on when work change directive is given

STANDARD WORKWEEK DAYS ADDED TO COMPLETION TIME: _____ TOTAL CHANGE ORDER AMOUNT: \$ 264,139.21

CONTRACTOR: JAR Construction

I, Joe A. Rosales Jr. of J.A.R Concrete agree and accept the terms and conditions of this change order.

Signature: _____

Date: 10/01/2021

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.: 3 DATE: July 30, 2020 SCOPE CHANGE
PROJECT: Paso Del Norte (PDN) Port of Entry (POE) Roundabout Improvements SOLICITATION NO. CSJ: 0924-06-539
Solicitation: 2019-452 CONSTRUCTION CHANGE

Project Number <u>PCP14IB001</u>	Project Number <u>PCP14IB001</u>	PURCHASE ORDER # <u>2000000333</u>
Class <u>38290</u>	Class <u>38290</u>	
Department <u>190</u>	Department <u>4950</u>	
Fund <u>4743</u>	Fund <u>190</u>	
Account <u>580270</u>	Account <u>580270</u>	

CONTRACTOR NAME: J.A.R. Concrete Inc.


PROVIDE REASON/JUSTIFICATION FOR CHANGE ORDER:

Prior to commencing construction, the City Manager was made aware of the improvements done to the area and had recommended additional landscaping amenities to the project that were not part of the original scope. Coordination began with the Engineer of record to make the changes to the landscaping and irrigation to reflect the comments provided by the City Manager.

Costs were justified by comparison of the contractor's proposal to an estimate based on TxDOT low average bid cost, they existing and similar bid items from on recent projects adjusted for inflation and found to be fair and reasonable.

Contractor will be given 60 working days to complete all of the work from the date the work change directive is issued.

STANDARD WORKWEEK DAYS ADDED TO COMPLETION TIME: 0 TOTAL CHANGE ORDER AMOUNT: \$ 264,139.21

Project Manager recommends approval: 
Alex Pedroza

Engineering Division Manager recommends approval: 
Margaret Schroeder, P.E.

Financing Department approval: _____
(If Required)

Attachment 1, 20 S-2 Documenting Change Order Cost Reasonableness, Sample Summary, Page 1

Contract Change Order Documentation Summary and Determination of Cost Reasonableness:

Contract Name: Paso Del Norte (PDN) Port of Entry (POE) Roundabout Improvements

Solicitation /Project Number: 2019-452

Change Order Number: 3

Prepared By: Alex Pedroza

RFP: NA

In response to an (Select one and entry number and date) **RFP number** _____ **or Field Directive number** _____ dated _____ (Attach Copy). Or In response to _____ (describe the situation that resulted in the unsolicited proposal) _____

_____ and unsolicited proposal was provided .

Initial Cost Estimate:

Check all that apply:

_____ No initial estimate of the change order costs was attempted. (Attach Justification countersigned by assigned DM)

A ROM Estimate in the amount of \$ 276,557.48 was prepared on Date 9/9/21 attach copy

_____ A Detailed Estimate in the amount of \$ _____ was prepared on Date _____ attach copy.

_____ The Design Consultant provided a detailed estimate in the amount of \$ _____ was prepared on Date _____ attach copy.

cover sheet indicates proposal
\$272,337 +/-

Contractors Proposal: July 08, 2020

The contractor provided a proposal Dated July 08, 2020 (attach copy) in the amount of \$264,139.21 and requesting 60 Calendar/Working days to perform the entire work. Any of these days that fall outside of the contract time will be added as work days.

The proposal was reviewed as to the required Scope of work and found to accurately reflect the Scope of Work **Yes** **No** _____. If No a formal revision was requested on this date _____ (attach Copy(s) of request) and received date _____, in the amount of \$ _____ and requesting _____ Calendar/Working days **Or Check if applicable** _____ after review with assigned DM the city elected to proceed with negotiations and address the scope inconsistencies in Negotiations without a proposal revision (list inconsistencies to be addressed in negotiations). _____

Attach continuation sheet if necessary

Attachment 1, 20 S-2 Documenting Change Order Cost Reasonableness, Sample Summary, Page 2

Cost evaluation: Cost reasonableness was determined using the following methods check all that apply.

Utilizing existing Bid Item

Price Analysis ✓

Cost Analysis

(Provide narrative description for each method utilized and how reasonableness was determined)

Attach mark up a proposal with negotiation objectives, including accepted cost, Dated and initialed by the Preparer and Assigned Division Manager. Label Marked UP Proposal:

Narrative description of determination of reasonableness: (Attach Continuation sheets as necessary, include detailed table showing Proposed/Objective /and Negotiated when appropriate. (Sample included)

Narrative: I created a cost estimate using existing bid item prices for items already in the contract, ✓ researching sale price and shipping costs and adding O&P for other items, and using TxDOT low average bid for other items.

For planters, I found a vendor selling the same planters as proposed on the plans. Cost and shipping were taken for the planters and 15% was added for overhead and profit for the installation. When talking to the contractor about this item, they mentioned they are including careful handling into the cost as these planters are large, heavy and fragile and they are at risk of damaging the planters while they are under their care. The cost the contractor provided was reasonable compared to our estimate. ✓

For irrigation, I met with Tyson to discuss the item provided in the contractor's cost proposal. The original bid price was for \$8,875.00/LS ✓ for a system with one valve and only irrigation on the median on 6th Ave. The new irrigation system includes 7 valves and approximately 228 emitters whereas the original irrigation system had 1 valve and 17 emitters. Tyson agreed we can multiply the system by 7 to get an approximate cost for the system of \$62,125 ✓. The Irrigation was adjusted to \$52,000 ✓ after reviewing irrigation costs for similar projects like the Rich Beem Roundabout. The cost the contractor provided was reasonable compared to our estimate.

Plant Maintenance and Irrigation maintenance estimates were both calculated using ratios between plants installed on the original design vs plants installed on the redesign. The proposal cost the contractor provided was reasonable compared to this estimate and costs from similar projects. ✓

25 Gallon tree was found using CBDIV 30 gallon tree item (25 gallon tree was not found on other projects) ✓. Upon checking with Brent Pearson, we found out the Crape Myrtle tree was found locally for \$180 EA ✓ brought this to the contractor's attention and they insisted the trees for sale locally were not quality trees and the contractor wanted to provide a tree the city would be pleased with from out of town. After asking for proof of this and going back and forth, the contractor negotiated to a price of \$376 EA. ✓

Star modification proposal was broken down to provide manpower and material cost for modifications done to the star monument. This work was necessary to mount the star monument per revised plans and provide thicker steel for structure.

Star structure additional reinforcement and concrete was necessary to modify footing for star and spiral per new plans. The price was found fair and reasonable based on the CY price of concrete per yard.

4" concrete slab necessary for planter mounting. This item cost was found to be higher compared to our estimate based on sidewalk pricing. This cost was justified by the increase in labor necessary to form 35 individual round slabs which are more labor intensive than placing normal sidewalk.

All of the other items were compared to existing contract bid items and were found to be fair and reasonable.

Below is a table showing the initial costs proposed by the contractor, our estimated price based on the estimate generated, and the final contractor proposal cost.

*Aggregate type 3 was not initially priced due to omission on contractor's part.

ITEM	QUANTITY	UOM	Initial proposal cost	CID estimated price	Final proposal cost
1 GAL PLANT	435	EA	\$ 20.94	\$ 21.67	\$ 20.94
5 GALLON PLANT	86	EA	\$ 34.72	\$ 40.00	\$ 34.72
CACTUS	282	EA	\$ 44.47	\$ 40.00	\$ 44.47
WEED BARRIER	207	SY	\$ 2.09	\$ 2.00	\$ 2.09
25 GALLON TREE	12	ES	\$ 514.10	\$ 300.00	\$ 376.12
PLANT MAINTENANCE	12	MO	\$ 492.90	\$ 1,458.00	\$ 492.90
1 GAL PLANT REPLACEMENT	340	EA	\$ 20.14	\$ 21.67	\$ 20.14
5 GAL PLANT REPLACEMENT	260	EA	\$ 31.80	\$ 40.00	\$ 31.80
IRRIGATION MAINTENANCE	12	MO	\$ 174.90	\$ 500.00	\$ 174.90
30 GAL PLANT REPLACEMENT	12	EA	\$ 487.60	\$ 5,851.20	\$ 424.00
AGGREGATE TYPE 2	17	CY	\$ 130.38	\$ 145.00	\$ 130.38
AGGREGATE TYPE 3	12	CY	\$ -	\$ 145.00	\$ 143.10
PLANTERS LARGE	7	EA	\$ 7,416.03	\$ 6,598.69	\$ 7,416.03
PLANTERS MEDIUM	18	EA	\$ 3,813.88	\$ 3,388.00	\$ 3,813.88
PLANTERS SMALL	10	EA	\$ 2,053.75	\$ 1,924.00	\$ 2,053.75
BACKFILL PLANTERS	13	CY	\$ 104.89	\$ 13.00	\$ 104.89
IRRIGATION	1	LS	\$ 44,878.28	\$ 52,000.00	\$ 46,286.50
FRENCH DRAIN	80	LF	\$ 13.52	\$ 28.78	\$ 13.52
Star modifications	1	LS	\$ 1,060.00	\$ 1,060.00	\$ 1,060.00
STAR STRUCTURE ADDITIONAL REINFORCEMENT	10	CY	\$ 40.50	\$ 150.00	\$ 40.50
4" CONCRETE SLAB	75	SY	\$ 62.20	\$ 40.00	\$ 62.20
BARRICADES & TRAFFIC HANDLING	1	MO	\$ 6,450.00	\$ 6,450.00	\$ 6,450.00

Below is the back up information used in order to estimate pricing for items.

Back up information

Contractor initially sent a request of 90 additional work days to be added to the contract in order to perform the extra irrigation and landscape work. The designer was tasked with finding the appropriate amount of work days that should be given for the additional work. The designer calculated a total of 30 workdays that should be added to the contract. The contractor was advised that his requested amount of days did not line up with the designer's amount. The contractor was requested to send his schedule of work in order to justify the additional days. The contractor sent the schedule found in this change order requesting 60 days. When asked about why they are including the entire landscaping on this

schedule, the contractor answered that it would take them 60 days to do the entire work and not only the added work. The contractor requested that any of the 60 days that fall outside of the contract time be added to the contract as additional days with a start date of the 60 days starting with the work change directive. With an estimated work change directive date of 10/12/21, an estimated 33 days will be added to the contract using this method.



Wed 6/16/2021 4:39 PM

Alan Herrera <aherrera@ceagroup.net>

FW: PDN Landscape revision time

To Pedroza, Alejandro

You forwarded this message on 6/17/2021 2:56 PM.

[Click here to download pictures.](#) To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Phish Alert V2

Good afternoon Alex,

As per today's phone conversation, please see below recommendation from Landscape Architect, which is 30 working days, approximately 45 calendar days.

Thank you,

Alan D. Herrera, P.E.
CEA Group

From: David Parra <david@greenway-studio.com>

Sent: Tuesday, June 15, 2021 2:50 PM

To: Alan Herrera <aherrera@ceagroup.net>

Subject: Re: PDN Landscape revision time

Alan,

Apologies for the delayed response.

I believe the new tasks will amount to 30 additional work days. Below are the tasks considered however the pot production and shipping will hopefully not produce any idle time, see below.

1 ft. Earthwork Increment
Sleeves and Irrigation Pot Prep.
Pot base form and Leveling
Pot Soil, amendments and mulch.

Thank you

DAVID A. PARRA, RLA, CNU-A, ASLA

PRINCIPAL / LANDSCAPE ARCHITECT

GREENWAY STUDIO, LLC

a: 817 Olive Avenue, El Paso, TX 79901

[Home](#) / [Rosetta Bowl Planter 112in.Dia. X 18in.H](#)



Rosetta Bowl Planter 112in.Dia. X 18in.H

\$4,661.85

Made to Order
Ships In 8-10 Weeks
SKU#: F1-ROS-R11218

Choose Color ▾ - Mocha



Mocha ▾

Choose Paint Finish ▾

Matte ▾

1/2" Diameter Drainage Holes ▾

Yes ▾

Qty

1


ADD TO CART



Need something custom?
Let's make it happen. [REQUEST A QUOTE >](#)

Shopping Cart

Item	Price	Qty	Subtotal
------	-------	-----	----------

 <p>Rosetta Bowl Planter 112in.Dia. X 18in.H SKU: FI-ROS-R11218-M-DRG Choose Color: 7 x Mocha Choose Paint Finish: 7 x Matte 1/2" Diameter Drainage Holes: 7 x Yes</p>	\$4,661.85	7	\$32,632.95
--	------------	---	-------------

Made to Order

Please Note: Made to Order items begin production immediately upon order placement and are built to your specifications. Lead times are approximate, and can fluctuate. As a result, the item(s) cannot be cancelled, changed, returned or refunded at any time. For quantities larger than 12 units, please give us a call for updated lead times. Your payment will be processed when the order is placed. Upon shipping, your payment will be applied to the invoice and tracking will be provided.



UPDATE SHOPPING CART

Gift options ▾

Apply Discount Code ▾

Gift Cards ▾

Summary

Estimate Shipping and Tax ^

Country

State/Province

Zip/Postal Code

Shipping
 Ground \$6,248.22

Subtotal	\$32,632.95
Shipping (Shipping - Ground)	\$6,248.22
Tax	\$3,110.50

Order Total \$41,991.67

PROCEED TO CHECKOUT

[Home](#) / Rosetta Bowl Planter 96in.Dia. X 16in.H



Rosetta Bowl Planter 96in.Dia. X 16in.H

\$2,851.85

Made to Order
Ships In 8-10 Weeks
SKU#: F1-ROS-R9616

Choose Color • - Mocha



Mocha

Choose Paint Finish •

Matte

1/2" Diameter Drainage Holes •

Yes

Qty




1

ADD TO CART





Need something custom?
Let's make it happen. [REQUEST A QUOTE >](#)


Shopping Cart

Item	Price	Qty	Subtotal
 <p>Rosetta Bowl Planter 96in.Dia. X 16in.H SKU: F1-ROS-R9616-M-DRG Choose Color: 18 x Mocha Choose Paint Finish: 18 x Matte 1/2" Diameter Drainage Holes: 18 x Yes</p> <p>Made to Order Please Note: Made to Order items begin production immediately upon order placement and are built to your specifications. Lead times are approximate, and can fluctuate. As a result, the item(s) cannot be cancelled, changed, returned or refunded at any time. For quantities larger than 12 units, please give us a call for updated lead times. Your payment will be processed when the order is placed. Upon shipping, your payment will be applied to the invoice and tracking will be provided.</p> <p> </p>	\$2,851.85	18	\$51,333.30


UPDATE SHOPPING CART

Gift options 

Apply Discount Code 

Gift Cards 

Summary

Estimate Shipping and Tax 

Country

State/Province

Zip/Postal Code

Shipping
 Ground \$9,824.18

Subtotal \$51,333.30
 Shipping (Shipping - Ground) \$0.00
 Tax \$4,106.66

Order Total \$55,439.96

PROCEED TO CHECKOUT

[Home](#) / Rosetta Bowl Planter 60in.Dia. X 14in.H

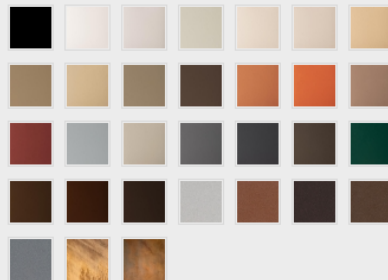


Rosetta Bowl Planter 60in.Dia. X 14in.H

\$1,358.85

Made to Order
Ships In 8-10 Weeks
SKU#: F1-ROS-R6014

Choose Color ▾



-- Please Select -- ▾

Choose Paint Finish ▾

-- Please Select -- ▾

1/2" Diameter Drainage Holes ▾

-- Please Select -- ▾

Qty

1

ADD TO CART



Need something custom?
Let's make it happen. [REQUEST A QUOTE >](#)

Shopping Cart

Item	Price	Qty	Subtotal
 <p>Rosetta Bowl Planter 60in.Dia. X 14in.H SKU: F1-ROS-R6014-M-DRG Choose Color: 10 x Mocha Choose Paint Finish: 10 x Matte 1/2" Diameter Drainage Holes: 10 x Yes</p>	\$1,358.85	10	\$13,588.50

Made to Order

Please Note: Made to Order items begin production immediately upon order placement and are built to your specifications. Lead times are approximate, and can fluctuate. As a result, the item(s) cannot be cancelled, changed, returned or refunded at any time. For quantities larger than 12 units, please give us a call for updated lead times. Your payment will be processed when the order is placed. Upon shipping, your payment will be applied to the invoice and tracking will be provided.



UPDATE SHOPPING CART

Gift options ▾

Apply Discount Code ▾

Gift Cards ▾

Summary

Estimate Shipping and Tax ^

Country

State/Province

State/Province

Zip/Postal Code

Shipping
 Ground \$2,605.05

Subtotal	\$13,588.50
Shipping (Shipping - Ground)	\$2,605.05
Tax	\$1,295.48

Order Total \$17,489.03

PROCEED TO CHECKOUT

PDN Roundabout bid tab

12.	192 6004	EA	91	PLANT MATERIAL (5-GAL)	\$40.00	\$3,640.00	\$50.00	\$4,550.00		
-----	----------	----	----	------------------------	---------	------------	---------	------------	--	--

Yarbrough Bridge 2020

16	192	6002		PLANT MATERIAL (1-GAL)	EA	61	\$32.00	\$1,952.00	\$21.00	\$1,281.00	\$12.00	\$732.00
----	-----	------	--	------------------------	----	----	---------	------------	---------	------------	---------	----------

PDN Roundabout

13.	192 6017		SY	393	VEGETATION BARRIER	\$2.00	\$786.00	\$3.00	\$1,179.00
-----	----------	--	----	-----	--------------------	--------	----------	--------	------------

CBD4 plant material 25 gal tree (didn't find 25 gallon)

16	192 6024				PLANT MATERIAL (30 GAL) (TREE)	EA	513	\$625.00	\$320,625.00	\$560.00	\$287,280.00	\$850.00	\$436,050.00
----	----------	--	--	--	--------------------------------	----	-----	----------	--------------	----------	--------------	----------	--------------

TxDOT low average bid for French drain

556 6008	PIPE UNDERDRAINS (TY 8) (6")	LF	4,960.000	19.50000	82,612.000	25.66080	12
----------	------------------------------	----	-----------	----------	------------	----------	----

Richbeem Edgemere roundabout plant maintenance and irrigation maintenance

16.	193-6001		MO	12	PLANT MAINTENANCE	\$1,000.00	\$12,000.00	\$800.00	\$9,600.00	\$960.13	\$11,521.56
17.	193-6007		MO	12	IRRIGATION SYSTEM OPER AND MAINT	\$850.00	\$10,200.00	\$300.00	\$3,600.00	\$800.00	\$9,600.00

Rich Beem and Edgemere roundabout irrigation system

7.	170-6001		LS	1	IRRIGATION SYSTEM	\$43,000.00	\$43,000.00	\$89,000.00	\$89,000.00	\$42,000.00	\$42,000.00
----	----------	--	----	---	-------------------	-------------	-------------	-------------	-------------	-------------	-------------

University Avenue Plant maintenance

8.	193 6001		MO	12	PLANT MAINTENANCE	\$875.00	\$10,500.00	\$1,745.16	\$20,941.92	\$3,996.28	\$47,955.38
----	----------	--	----	----	-------------------	----------	-------------	------------	-------------	------------	-------------

PDN Roundabout Loose aggregate groundcover

91.	1005 6002		CY	12	LOOSE AGGR FOR GROUNDCOVER (TYPE II)	\$145.00	\$1,740.00	\$225.00	\$2,700.00		
-----	-----------	--	----	----	--------------------------------------	----------	------------	----------	------------	--	--

Designer concurrence on initial proposal pricing and comments



Thu 7/8/2021 11:20 AM

David Parra <david@greenway-studio.com>

Re: PDN Proposals

To: Alan Herrera; Rene Cano

[Click here to download pictures.](#) To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

Good Morning Alan,

We are in agreement with most of the contractor's costs however there seems to be a few discrepancies in the landscape contractor's following line items:

25 Gal. Tree - \$485 ea (This cost is high and in fact higher than the cost of a 3" Caliper Tree, item needs review.)

30 Gal. Plant Replacement - \$460 ea (This cost is high and does not match gallon size of proposed plant material, item needs review.)

1 Gal Plant Replacement - \$19 ea

5 Gal Plant Replacement - \$30 ea

30 Gal Plant Replacement - \$460 ea (Cost is high and not comparable with item below)

65 Gal Plant Replacement - \$400 ea (Why less than above?)

(The plant replacement items above assume a 100% mortality rate for all plants. This should be in accordance with standard mortality rates **within** the 1 year warranty, items need review.)

Additionally, we are not sure why the original contract amount is summed up with the new contract? Only a couple of items have been deducted in the new quote and others remain.

Thank you

DAVID A. PARRA, RLA, CNU-A, ASLA

PRINCIPAL / LANDSCAPE ARCHITECT

GREENWAY STUDIO, LLC

a: 817 Olive Avenue, El Paso, TX 79901

e: david@greenway-studio.com

w: www.greenway-studio.com

t: 915.873.7393

c: 915.215.9488



Sender notified by
[Mailtrack](#) ...



August 6, 2021

J A R Construction
 8000 Escobar
 El Paso, TX 79907
 Attn: Mr. Jesus Valenzuela

Re: Construction Schedule
 Paseo Del Norte Roundabout

12 trees can be done in 2 days

1 gallon and cactus can be done concurrently. 5 days total

No additional days. Less on revised

No additional day. Less boulders

Can be done in 1 day

1 additional day for both

1 additional day

Valenzuela,
 As per your request, please find listed below our construction schedule for the above project.

Irrigation	10	20	Days
French Drain	1	4	Days
25-Gal Plants	2	3	Days
1-Gal Plants	3	4	Days
5-Gal Plants	0	1	Days
Cactus	2	4	Days
Boulders	0	1	Days
Weed Barrier	1	4	Days
Aggregate Type I	.5	2	Days
Aggregate Type II	.5	2	Days
Aggregate Type III	1	2	Days
Planters Large	2	3	Days
Planters Medium	3	4	Days
Planters Small	2	3	Days
Backfill Plants	1	3	Days
Total Working Days	60	Days	

1 month for installation of additional irrigation? This can be done in 2 weeks or 10 days

French drain can be done in 1 day. Most of the work here will be done by JAR

Planters may take less to install

Can be done in 1 day

29 additional working days

Please Note: This schedule may change due to the delivery of the planters. Manufacture is telling us delivery after receipt of order is 8 – 10 weeks out.

Plant Maintenance, Plant Replacement, Irrigation maintenance is not part of this schedule.

Should you have any questions, please don't hesitate to call.

Sincerely,

Joe L. Aguilar, Jr.

CID Estimate

CID Estimate

ITEM	QUANTITY	UOM	UNIT PRICE	COST
1 GAL PLANT	435	EA	21.67	\$ 9,426.45
5 GALLON PLANT	86	EA	40	\$ 3,440.00
CACTUS	282	EA	40	\$ 11,280.00
WEED BARRIER	207	SY	2	\$ 414.00
25 GALLON TREE	12	ES	300	\$ 3,600.00
PLANT MAINTENANCE	12	MO	1458	\$ 17,496.00
1 GAL PLANT REPLACEMENT	340	EA	21.67	\$ 7,367.80
5 GAL PLANT REPLACEMENT	260	EA	40	\$ 10,400.00
IRRIGATION MAINTENANCE	12	MO	500	\$ 6,000.00
30 GAL PLANT REPLACEMENT	12	EA	678	\$ 8,136.00
AGGREGATE TYPE 2	17	CY	145	\$ 2,465.00
AGGREGATE TYPE 3	12	CY	145	\$ 1,740.00
PLANTERS LARGE	7	EA	6598.69	\$ 46,190.83
PLANTERS MEDIUM	18	EA	3388	\$ 60,984.00
PLANTERS SMALL	10	EA	1924	\$ 19,240.00
BACKFILL PLANTERS	13	CY	13	\$ 169.00
IRRIGATION	1	LS	52000	\$ 52,000.00
FRENCH DRAIN	80	LF	28.78	\$ 2,302.40
STAR MODIFICATIONS	1	LS	1000	\$ 1,000.00
STAR STRUCTURE ADDITIONAL REINFORCEMENT	10	CY	150	\$ 1,500.00
4" CONCRETE SLAB	75	SY	40	\$ 3,000.00
BARRICADES AND TRAFFIC HANDLING	1	MO	6450	\$ 6,450.00
			Total	\$ 274,601.48

Westside Welding Inc.
GENERAL CONTRACTORS

Star structure
proposal

Estimate

Date	Estimate #
6/9/2021	7090
Phone #	915-877-5345

Name / Address
J.A.R. Construction Inc 8000 Escobar Dr. El Paso, Texas 79907

P.O. No.	Project

Description	Qty	Rate	Total
Roundabout Change Order Material and labor for modifications of frame for Star Sculpture. Material: \$400.00 Labor: 1 man x \$75.00/hr x 8 hrs = \$600.00	1	1,000.00	1,000.00
Thank you for your business.		Subtotal	\$1,000.00
westsidewelding@sbcglobal.net	Web Site	Sales Tax (8.25%)	\$0.00
Estimate is only good by the end of day!	westsidewelding.net	Total	\$1,000.00

Disclaimer: Westside Welding completes projects as per customer request, specs, or drawings. Safety lids, decals, rails, and other safety equipment are only installed as per customer request. Customer agrees that work was completed as ordered. Westside Welding will not be held liable for any safety items not requested by customer.

X _____

Third proposal
with breakdown

Change Order

OWNER :
City of El Paso
218 N. Campbell, 2nd Floor
El Paso, TX 79901

PROJECT :
Paso del Norte Roundabout
Improvements

Change Order **1**

CONTRACTOR :
J.A.R. Construction, Inc.
8000 Escobar Drive
El Paso, TX 79907

**CONTRACTOR'S
PROJECT NO. :** 2019-452

Description	Unit	Quantity	Unit Price	Total Amount
Landscape & Irrigation Re-design				
Accent Landscape				
Total Add from New Plan	LS	1	\$234,419.50	\$234,419.50
Total Deduct from New Plan	LS	1	-\$6,535.00	-\$6,535.00
Original Contract Amount	LS	1	\$27,915.46	\$27,915.46
Westside Welding				
Star Structure Modifications	LS	1	\$1,000.00	\$1,000.00
J.A.R Concrete Inc				
Existing Subgrade Prep below planters	CY	35	\$46.50	\$1,627.50
4" Concrete Slab (No Wire Mesh) for planters	SY	75	\$40.50	\$3,037.50
Concrete Footing Steel Reinforcement	CY	10	\$40.50	\$405.00
Subtotal				\$261,869.96
General Contractor Markup	@	5.00% Markup		\$13,093.50
Bond	@	1.00% Markup		\$2,618.70
			Total	\$277,582.16



Accent
Landscape Contractors Inc.

August 23, 2021

JAR Construction, Inc.
8000 Escobar Drive
El Paso, Texas 79936
Attn: Mr. Jesus Valenzuela

Re: Paseo Del Norte Roundabout

Dear Mr. Valenzuela,

As per your request, please find listed below our revised breakdown of the new pricing for the above referenced project, as per revised drawing by Greenway Studios dated March 2021. We have broken down pricing and quantities from our original bid to the revised proposal.

	Original Plan Quantity	New Plan Quantity	Adds	Deducts	Unit Price	Total Add	Total Deduct
1 Gal. Plant	0	435 ea.	435		\$19.75	\$8,591.25	\$0.00
5 Gal. Plant	91 ea.	53 ea.	38		\$40 \$32.75	\$1,244.50	-1,520 \$0.00
Cactus	0	282 ea.	282		\$41.95	\$11,829.90	\$0.00
Weed Barrier	393 Syds.	600 Syds.	207		2.00 \$1.97	\$407.79	\$0.00
3" Tree	1 ea.	0	-	1 to remain	\$450.00	\$0.00	-\$450.00
25 Gal. Tree	0	12 ea.	12		\$354.83	\$4,257.96	\$0.00
Plant Maintenance	1,485- 11 months	5,580 - 12 ea.	12		\$465.00	\$5,580.00	\$0.00
1 Gal. Plant Replacement	0	340 ea.	340		\$19.00	\$6,460.00	\$0.00
5 Gal. Plant Replacement	20 ea.	280 ea.	260		\$36 \$30.00	\$7,800.00	\$0.00
Irrigation Maintenance	550- 11 months	1980- 12 ea.	12		\$165.00	\$1,980.00	\$0.00
30 Gal. Plant Replacement	0	12 ea.	12		\$400.00	\$4,800.00	\$0.00
65 Gal. Plant Replacement	1 ea.	0	1 to remain		\$460.00	\$0.00	-\$460.00
Boulders	37 ea.	12 ea.	-	25	\$225.00	\$0.00	-\$5,625.00
Aggregate Type I	29 cyds.	29 cyds.	0	0	\$0.00	\$0.00	\$0.00
Aggregate Type II	12 cyds.	29 cyds.	17		\$123.00	\$2,091.00	\$0.00
Aggregate Type III	0	12 cyds.			\$135.00	\$1,620.00	\$0.00
Planters Large	0	7 ea.	7		\$6,996.25	\$48,973.75	\$0.00
Planters Medium	0	18 ea.	18		\$3,598.00	\$64,764.00	\$0.00
Planters Small	0	10 ea.	10		\$1,937.50	\$19,375.00	\$0.00
Backfill Planters	0	13 cyds.	13		\$98.95	\$1,286.35	\$0.00
Irrigation	1	1	49,733	7,395		\$42,338.00	\$0.00
French Drain	0	80 L.F.	80		\$12.75	\$1,020.00	\$0.00
						\$234,419.50	-\$6,535.00



Total Add from New Plan	\$234,419.50
Total Deduct from New Plan	(\$6,535.00)
Original Contract Amount	<u>\$27,915.46</u>
New Total Contract Amount	\$255,799.96

If you have any questions, please don't hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Joe L. Aguilar, Jr." in a cursive style.

Joe L. Aguilar, Jr.



Accent
Landscape Contractors Inc.

August 23, 2021

JAR Construction, Inc.
8000 Escobar Drive
El Paso, Texas 79936
Attn: Mr. Jesus Valenzuela

Re: Paseo Del Norte Roundabout

Dear Mr. Valenzuela,

As per the City of El Paso's request please find listed below our breakdown of the items requested. Please note that the pricing for the 25 gal. trees has been corrected and the quantity for the 30 gal. tree has been changed to reflect the quantity the City of El Paso requested.

Material

7 ea.	Large Planters @ \$5,335.68/ea.	=	\$ 37,349.78
18 ea.	Medium Planters @ \$2,722.77/ea.	=	\$ 49,009.78
10 ea.	Small Planters @ \$1,351.57/ea.	=	\$ 13,515.67
1 ea.	Freight	=	\$ 7,682.72

Labor Unloading

17 hrs.	Operator @ \$22.00/hr.	=	\$ 374.00
17 hrs.	Labor @ \$18.95/hr.	=	\$ 322.15
L.S.	Labor Burden @ 28%	=	\$ 194.92

Labor to Install

53 hrs.	Operator @ \$22.00/hr.	=	\$ 1,166.00
70 hrs.	Labor @ \$18.95/hr.	=	\$ 1,326.50
L.S.	Labor Burden @ 28%	=	\$ 697.90

Rental Equipment

2 weeks	Sky Track @ \$2,058.72/week	=	\$ 4,117.44
---------	-----------------------------	---	-------------

Subtotal	=	\$ 115,756.86
15% O & P	=	\$ 17,363.53
Total	=	\$ 133,120.39

Backfill Planters

18 tons	Topsoil @ \$17.66/ton	=	\$ 317.88
35 bags	Peat Moss @ \$12.05/bag	=	\$ 421.75

Labor

20 hrs.	Labor @ \$18.95/hr.	=	\$ 379.00
Subtotal	=	\$ 1,118.63	
15 % O & P	=	\$ 167.79	
Total	=	\$ 1,286.42	

If you have any questions, please don't hesitate to contact me.

Sincerely,

Joe L. Aguilar, Jr.

Fourth Proposal

Change Order

OWNER :
City of El Paso
218 N. Campbell, 2nd Floor
El Paso, TX 79901

PROJECT: Paso del Norte Roundabout Improvements

Change Order

CONTRACTOR :
J.A.R. Construction, Inc.
8000 Escobar Drive
El Paso, TX 79907

**CONTRACTOR'S
PROJECT NO.** 2019-452

Description	Qty	Unit	Unit Price	Total	JAR Markup 6% Unit Price	Change Order Total	
1 Gal. Plant	435	EA	\$19.75	\$8,591.25	\$20.94	\$9,106.73	
5 Gal. Plant	86	EA	\$32.75	\$2,816.50	\$34.72	\$2,985.49	
Cactus	282	EA	\$41.95	\$11,829.90	\$44.47	\$12,539.69	
Weed Barrier	207	SY	\$1.97	\$407.79	\$2.09	\$432.26	
25 Gal. Tree	12	EA	\$354.83	\$4,257.96	\$376.12	\$4,513.44	
Plant Maintenance	12	MONTH	\$465.00	\$5,580.00	\$492.90	\$5,914.80	
1 Gal. Plant Replacement	340	EA	\$19.00	\$6,460.00	\$20.14	\$6,847.60	
5 Gal. Plant Replacement	260	EA	\$30.00	\$7,800.00	\$31.80	\$8,268.00	
Irrigation Maintenance	12	MONTH	\$165.00	\$1,980.00	\$174.90	\$2,098.80	
30 Gal. Plant Replacement	12	EA	\$400.00	\$4,800.00	\$424.00	\$5,088.00	
Aggregate TypeII	17	CY	\$123.00	\$2,091.00	\$130.38	\$2,216.46	
Aggregate TypeIII	12	CY	\$135.00	\$1,620.00	\$143.10	\$1,717.20	
Planters Large	7	EA	\$6,996.25	\$48,973.75	\$7,416.03	\$51,912.18	
Planters Medium	18	EA	\$3,598.00	\$64,764.00	\$3,813.88	\$68,649.84	
Planters Small	10	EA	\$1,937.50	\$19,375.00	\$2,053.75	\$20,537.50	
Backfill Planters	13	CY	\$98.95	\$1,286.35	\$104.89	\$1,363.53	
Irrigation	1	LS	\$42,338.00	\$42,338.00	\$44,878.28	\$44,878.28	
French Drain	80	LF	\$12.75	\$1,020.00	\$13.52	\$1,081.20	
Star Structure Modifications	1	LS	\$1,000.00	\$1,000.00	\$1,060.00	\$1,060.00	
Star Structure Additional Reinforcement	10	CY			\$40.50	\$405.00	
4" Concrete Slab	75	SY			\$62.20	\$4,665.00	
Barricades & Traffic Handling	3	MONTH			\$6,450.00	\$19,350.00	
				Sub-Amount	\$236,991.50	GC Amount	\$275,630.99

The items above are additional quantities/items which reflect the new irrigation and landscape plans. The original contract items will remain as part of the contract except for items "Plant Maintenance" & "Irrigation Maintenance", which will end up getting removed from the original contract bid items in a CQN at the end of the project. Additional months for Barricades and Traffic Handling shall be issued to JAR Concrete as previously discussed.
TOTAL AMOUN for CHANGE ORDER - \$275,630.99

Please provide a prompt written approval directive; our suppliers will only hold the material prices until 09/17/2021.

Fifth proposal

Change Order

OWNER : City of El Paso
218 N. Campbell, 2nd Floor
El Paso, TX 79901

PROJECT: Paso del Norte Roundabout Improvements

Change Order

CONTRACTOR : J.A.R. Construction, Inc.
8000 Escobar Drive
El Paso, TX 79907

CONTRACTOR'S PROJECT NO. 2019-452

Description	Qty	Unit	Unit Price	Total	JAR Markup 6% Unit Price	Change Order Total
1 Gal. Plant	435	EA	\$19.75	\$8,591.25	\$20.94	\$9,106.73
5 Gal. Plant	86	EA	\$32.75	\$2,816.50	\$34.72	\$2,985.49
Cactus	282	EA	\$41.95	\$11,829.90	\$44.47	\$12,539.69
Weed Barrier	207	SY	\$1.97	\$407.79	\$2.09	\$432.26
25 Gal. Tree	12	EA	\$354.83	\$4,257.96	\$376.12	\$4,513.44
Plant Maintenance	12	MONTH	\$465.00	\$5,580.00	\$492.90	\$5,914.80
1 Gal. Plant Replacement	340	EA	\$19.00	\$6,460.00	\$20.14	\$6,847.60
5 Gal. Plant Replacement	260	EA	\$30.00	\$7,800.00	\$31.80	\$8,268.00
Irrigation Maintenance	12	MONTH	\$165.00	\$1,980.00	\$174.90	\$2,098.80
30 Gal. Plant Replacement	12	EA	\$400.00	\$4,800.00	\$424.00	\$5,088.00
Aggregate TypeII	17	CY	\$123.00	\$2,091.00	\$130.38	\$2,216.46
Aggregate TypeIII	12	CY	\$135.00	\$1,620.00	\$143.10	\$1,717.20
Planters Large	7	EA	\$6,996.25	\$48,973.75	\$7,416.03	\$51,912.18
Planters Medium	18	EA	\$3,598.00	\$64,764.00	\$3,813.88	\$68,649.84
Planters Small	10	EA	\$1,937.50	\$19,375.00	\$2,053.75	\$20,537.50
Backfill Planters	13	CY	\$98.95	\$1,286.35	\$104.89	\$1,363.53
Irrigation	1	LS	\$42,338.00	\$42,338.00	\$44,878.28	\$44,878.28
French Drain	80	LF	\$12.75	\$1,020.00	\$13.52	\$1,081.20
Star Structure Modifications	1	LS	\$1,000.00	\$1,000.00	\$1,060.00	\$1,060.00
Star Structure Additional Reinforcement	10	CY			\$40.50	\$405.00
4" Concrete Slab	75	SY			\$62.20	\$4,665.00
Barricades & Traffic Handling	1	MONTH			\$6,450.00	\$6,450.00
				Sub-Amount	\$236,991.50	
					GC Amount	\$262,730.99

The items above are additional quantities/items which reflect the new irrigation and landscape plans. The original contract items will remain as part of the contract except for items "Plant Maintenance" & "Irrigation Maintenance", which will end up getting removed from the original contract bid items in a CQN at the end of the project. Additional months for Barricades and Traffic Handling shall be issued to JAR Concrete as previously discussed. TOTAL AMOUN for CHANGE ORDER - \$262,730.99

Please provide a prompt written approval directive; our suppliers will only hold the material prices until 09/17/2021.

Final Proposal

Change Order

OWNER : City of El Paso
218 N. Campbell, 2nd Floor
El Paso, TX 79901

PROJECT: Paso del Norte Roundabout Improvements

Change Order

CONTRACTOR : J.A.R. Construction, Inc.
8000 Escobar Drive
El Paso, TX 79907

**CONTRACTOR'S
PROJECT NO.** 2019-452

Description	Qty	Unit	Unit Price	Total	JAR Markup 6% Unit Price	Change Order Total
1 Gal. Plant	435	EA	\$19.75	\$8,591.25	\$20.94	\$9,106.73
5 Gal. Plant	86	EA	\$32.75	\$2,816.50	\$34.72	\$2,985.49
Cactus	282	EA	\$41.95	\$11,829.90	\$44.47	\$12,539.69
Weed Barrier	207	SY	\$1.97	\$407.79	\$2.09	\$432.26
25 Gal. Tree	12	EA	\$354.83	\$4,257.96	\$376.12	\$4,513.44
Plant Maintenance	12	MONTH	\$465.00	\$5,580.00	\$492.90	\$5,914.80
1 Gal. Plant Replacement	340	EA	\$19.00	\$6,460.00	\$20.14	\$6,847.60
5 Gal. Plant Replacement	260	EA	\$30.00	\$7,800.00	\$31.80	\$8,268.00
Irrigation Maintenance	12	MONTH	\$165.00	\$1,980.00	\$174.90	\$2,098.80
30 Gal. Plant Replacement	12	EA	\$400.00	\$4,800.00	\$424.00	\$5,088.00
Aggregate TypeII	17	CY	\$123.00	\$2,091.00	\$130.38	\$2,216.46
Aggregate TypeIII	12	CY	\$135.00	\$1,620.00	\$143.10	\$1,717.20
Planters Large	7	EA	\$6,996.25	\$48,973.75	\$7,416.03	\$51,912.18
Planters Medium	18	EA	\$3,598.00	\$64,764.00	\$3,813.88	\$68,649.84
Planters Small	10	EA	\$1,937.50	\$19,375.00	\$2,053.75	\$20,537.50
Backfill Planters	13	CY	\$98.95	\$1,286.35	\$104.89	\$1,363.53
Irrigation	1	LS	\$43,666.51	\$43,666.51	\$46,286.50	\$46,286.50
French Drain	80	LF	\$12.75	\$1,020.00	\$13.52	\$1,081.20
Star Structure Modifications	1	LS	\$1,000.00	\$1,000.00	\$1,060.00	\$1,060.00
Star Structure Additional Reinforcement	10	CY			\$40.50	\$405.00
4" Concrete Slab	75	SY			\$62.20	\$4,665.00
Barricades & Traffic Handling	1	MONTH			\$6,450.00	\$6,450.00
Sub-Amount				\$238,320.01	GC Amount	\$264,139.21

The items above are additional quantities/items which reflect the new irrigation and landscape plans. The original contract items will remain as part of the contract except for items "Plant Maintenance" & "Irrigation Maintenance", which will end up getting removed from the original contract bid items in a CQN at the end of the project. A TOTAL AMOUNT for CHANGE ORDER - \$264,139.21



September 17, 2021

JAR Construction, Inc.
 8000 Escobar Drive
 El Paso, Texas 79936
 Attn: Mr. Jesus Valenzuela

Re: Paseo Del Norte Roundabout

Dear Mr. Valenzuela,

As per your request, please find listed below our revised breakdown of the new pricing for the above referenced project, as per revised drawing by Greenway Studios dated March 2021. We have broken down pricing and quantities from our original bid to the revised proposal.

	Original Plan Quantity	New Plan Quantity	Adds	Deducts	Unit Price	Total Add	Total Deduct
1 Gal. Plant	0	435 ea.	435		\$19.75	\$8,591.25	\$0.00
5 Gal. Plant	91 ea.	53 ea.	86		\$32.75	\$2,846.50	\$0.00
Cactus	0	282 ea.	282		\$41.95	\$11,829.90	\$0.00
Weed Barrier	393 Syds.	600 Syds.	207		\$1.97	\$407.79	\$0.00
3" Tree	1 ea.	0	-	1	\$450.00	\$0.00	-\$450.00
25 Gal. Tree	0	12 ea.	12		\$354.83	\$4,257.96	\$0.00
Plant Maintenance	1,485- 11 months	5,580 - 12 ea.	12		\$465.00	\$5,580.00	\$0.00
1 Gal. Plant Replacement	0	340 ea.	340		\$19.00	\$6,460.00	\$0.00
5 Gal. Plant Replacement	20 ea.	280 ea.	260		\$30.00	\$7,800.00	\$0.00
Irrigation Maintenance	550- 11 months	1980- 12 ea.	12		\$165.00	\$1,980.00	\$0.00
30 Gal. Plant Replacement	0	12 ea.	12		\$400.00	\$4,800.00	\$0.00
65 Gal. Plant Replacement	1 ea.	0	-	1	\$460.00	\$0.00	-\$460.00
Boulders	37 ea.	12 ea.	-	25	\$225.00	\$0.00	-\$5,625.00
Aggregate Type I	29 cyds.	29 cyds.	0	0	\$0.00	\$0.00	\$0.00
Aggregate Type II	12 cyds.	29 cyds.	17		\$123.00	\$2,091.00	\$0.00
Aggregate Type III	0	12 cyds.			\$135.00	\$1,620.00	\$0.00
Planters Large	0	7 ea.	7		\$6,996.25	\$48,973.75	\$0.00
Planters Medium	0	18 ea.	18		\$3,598.00	\$64,764.00	\$0.00
Planters Small	0	10 ea.	10		\$1,937.50	\$19,375.00	\$0.00
Backfill Planters	0	13 cyds.	13		\$98.95	\$1,286.35	\$0.00
Irrigation	1	1	51,061.51	7,395		\$43,666.51	\$0.00
French Drain	0	80 L.F.	80		\$12.75	\$1,020.00	\$0.00
						\$237,320.01	-\$6,535.00

Total Add from New Plan	\$237,320.01	→	Change Order Total
Total Deduct from New Plan	(\$6,535.00)	←	Original Irrigation/Landscape Amount will remain as is, a CQN will be provided to JAR for any quantities not used
Original Contract Amount	\$27,915.46	←	
New Total Contract Amount	\$257,128.47		

If you have any questions, please don't hesitate to contact me.

Sincerely,



Joe L. Aguilar, Jr.

First proposal

Change Order

OWNER :
City of El Paso
218 N. Campbell, 2nd Floor
El Paso, TX 79901

PROJECT :
Paso del Norte Roundabout
Improvements

Change Order 1

CONTRACTOR :
J.A.R. Construction, Inc.
8000 Escobar Drive
El Paso, TX 79907

**CONTRACTOR'S
PROJECT NO. :** 2019-452

Description	Unit	Quantity	Unit Price	Total Amount
Landscape & Irrigation Re-design				
Accent Landscape				
Total Add from New Plan	LS	1	\$222,936.54	\$222,936.54
Original Contract Amount	LS	1	\$27,915.46	\$27,915.46
Westside Welding				
Star Structure Modifications	LS	1	\$1,000.00	\$1,000.00
J.A.R Concrete Inc				
Existing Subgrade Prep below planters	CY	35	\$46.50	\$1,627.50
4" Concrete Slab (No Wire Mesh) for planters	SY	75	\$40.50	\$3,037.50
Concrete Footing Steel Reinforcement	CY	10	\$40.50	\$405.00
Subtotal				\$256,922.00
General Contractor Markup	@	5.00% Markup		\$12,846.10
Bond	@	1.00% Markup		\$2,569.22
			Total	\$272,337.32



April 22, 2021

JAR Construction, Inc.
 8000 Escobar Drive
 El Paso, Texas 79936
 Attn: Mr. Jesus Valenzuela

Re: Paseo Del Norte Roundabout

Dear Mr. Valenzuela,

As per your request, please find listed below our breakdown of the new pricing for the above referenced project, as per revised drawing by Greenway Studios dated March 2021. We have broken down pricing and quantities from our original bid to the revised proposal.

	Original Plan Quantity	New Plan Quantity	Adds	Deducts	Unit Price	Total Add	Total Deduct
1 Gal. Plant	0	435 ea.	435	21.67 yarbrough avg	\$19.75	\$8,591.25	\$0.00
5 Gal. Plant	91 ea.	177 53 ea.	38	\$45 PDN	\$32.75	\$1,244.50	\$0.00
Cactus	0	234 282 ea.	282	\$45 PDN	\$41.95	\$11,829.90	\$0.00
Weed Barrier	393 Syds.	600 Syds.	207	\$2 PDN	\$1.97	\$407.79	\$0.00
3" Tree	1 ea.	0	-	1	\$450.00	\$0.00	-\$450.00
25 Gal. Tree	0	6 ea.	6	\$678 for 30 gal CBD 4 avg \$180 per tree at east side nursery	\$485.00	\$2,910.00	\$0.00
Plant Maintenance	1,485- 11 months	5,580 - 12 ea.	12		\$465.00	\$5,580.00	\$0.00
1 Gal. Plant Replacement	0	340 ea.	340		✓ \$19.00	\$6,460.00	\$0.00
5 Gal. Plant Replacement	20 ea.	280 ea.	260		✓ \$30.00	\$7,800.00	\$0.00
Irrigation Maintenance	550- 11 months	1980- 12 ea.	12		\$165.00	\$1,980.00	\$0.00
30 Gal. Plant Replacement	0	6 ea.	6	\$678 for 30 gal CBD 4 avg	✓ \$460.00	\$2,760.00	\$0.00
65 Gal. Plant Replacement	1 ea.	0	-	1	✓ \$400.00	\$0.00	-\$400.00
Boulders	37 ea.	12 ea.	-	25	\$250 PDN \$225.00	\$0.00	-\$6250 - \$5,625.00
Aggregate Type I	29 cyds.	29 cyds.	0	0	\$0.00	\$0.00	\$0.00
Aggregate Type II	12 cyds.	29 cyds.	17	\$145 PDN	\$123.00	\$2,091.00	\$0.00
Planters Large	0	7 ea.	7	\$41,991 for planters \$6,998.25	\$6,998.25	\$48,973.75	\$0.00
Planters Medium	0	18 ea.	18	\$55,439 for planters \$3,598.00	\$3,598.00	\$64,764.00	\$0.00
Planters Small	0	10 ea.	10	\$17,489 for planters \$1,937.50	\$1,937.50	\$19,375.00	\$0.00
Backfill Planters	0	13 cyds.	13		\$98.95	\$1,286.35	\$0.00
Irrigation	1	1	49,733	7,395		\$42,338.00	\$0.00
French Drain	0	80 L.F.	80	\$25.66/LF ALB ✓	\$12.75	\$1,020.00	\$0.00
						\$229,411.54	\$6,475.00



Total Add From New Plan	\$ 222,936.54	\$222,141.54
Original Contract Amount	<u>\$ 27,915.46</u>	
New Total Contract Amount	\$ 250,852.00	

If you have any questions, please don't hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Joe L. Aguilar, Jr." The signature is written in dark ink and is positioned above the printed name.

Joe L. Aguilar, Jr.

Westside Welding Inc.

GENERAL CONTRACTORS

Estimate

Date	Estimate #
6/9/2021	7090
Phone #	915-877-5345

Name / Address
J.A.R. Construction Inc 8000 Escobar Dr. El Paso, Texas 79907

P.O. No.	Project

Description	Qty	Rate	Total
Roundabout Change Order Material and labor for modifications of frame for Star Sculpture. What extra material was needed for the modifications?	1	1,000.00	1,000.00
Thank you for your business.		Subtotal	\$1,000.00
westsidewelding@sbcglobal.net	Web Site	Sales Tax (8.25%)	\$0.00
Estimate is only good by the end of day!	westsidewelding.net	Total	\$1,000.00

Disclaimer: Westside Welding completes projects as per customer request, specs, or drawings. Safety lids, decals, rails, and other safety equipment are only installed as per customer request. Customer agrees that work was completed as ordered. Westside Welding will not be held liable for any safety items not requested by customer.

X _____

Second proposal

Change Order

OWNER :
City of El Paso
218 N. Campbell, 2nd Floor
El Paso, TX 79901

PROJECT :
Paso del Norte Roundabout
Improvementes

Change Order **1**

CONTRACTOR :
J.A.R. Construction, Inc.
8000 Escobar Drive
El Paso, TX 79907

**CONTRACTOR'S
PROJECT NO. :** 2019-452

Description	Unit	Quantity	Unit Price	Total Amount
Landscape & Irrigation Re-design				
Accent Landscape				
Total Add from New Plan	LS	1	\$233,581.54	\$233,581.54
Original Contract Amount	LS	1	\$27,915.46	\$27,915.46
Westside Welding				
Star Structure Modifications	LS	1	\$1,000.00	\$1,000.00
J.A.R Concrete Inc				
Existing Subgrade Prep below planters	CY	35	\$46.50	\$1,627.50
4" Concrete Slab (No Wire Mesh) for planters	SY	75	\$40.50	\$3,037.50
Concrete Footing Steel Reinforcement	CY	10	\$40.50	\$405.00
Subtotal				\$267,567.00
General Contractor Markup	@	5.00% Markup		\$13,378.35
Bond	@	1.00% Markup		\$2,675.67
			Total	\$283,621.02



Accent
Landscape Contractors Inc.

July 28, 2021

JAR Construction, Inc.
8000 Escobar Drive
El Paso, Texas 79936
Attn: Mr. Jesus Valenzuela

Re: Paseo Del Norte Roundabout

Dear Mr. Valenzuela,

As per your request, please find listed below our revised breakdown of the new pricing for the above referenced project, as per revised drawing by Greenway Studios dated March 2021. We have broken down pricing and quantities from our original bid to the revised proposal.

	Original Plan Quantity	New Plan Quantity	Adds	Deducts	Unit Price	Total Add	Total Deduct
1 Gal. Plant	0	435 ea.	435		\$19.75	\$8,591.25	\$0.00
5 Gal. Plant	91 ea.	53 ea.	38		\$32.75	\$1,244.50	\$0.00
Cactus	0	282 ea.	282		\$41.95	\$11,829.90	\$0.00
Weed Barrier	393 Syds.	600 Syds.	207		\$1.97	\$407.79	\$0.00
3" Tree	1 ea.	0	-	1	\$450.00	\$0.00	-\$450.00
25 Gal. Tree	0	12 ea.	12		\$485.00	\$5,820.00	\$0.00
Plant Maintenance	1,485- 11 months	5,580 - 12 ea.	12		\$465.00	\$5,580.00	\$0.00
1 Gal. Plant Replacement	0	340 ea.	340		\$19.00	\$6,460.00	\$0.00
5 Gal. Plant Replacement	20 ea.	280 ea.	260		\$30.00	\$7,800.00	\$0.00
Irrigation Maintenance	550- 11 months	1980- 12 ea.	12		\$165.00	\$1,980.00	\$0.00
30 Gal. Plant Replacement	0	6 ea.	6		✓ \$400.00	\$2,400.00	\$0.00
65 Gal. Plant Replacement	1 ea.	0	-	1	✓ \$460.00	\$0.00	-\$460.00
Boulders	37 ea.	12 ea.	-	25	\$225.00	\$0.00	-\$5,625.00
Aggregate Type I	29 cyds.	29 cyds.	0	0	\$0.00	\$0.00	\$0.00
Aggregate Type II	12 cyds.	29 cyds.	17		\$123.00	\$2,091.00	\$0.00
Aggregate Type III	0	12 cyds.			\$135.00	\$1,620.00	\$0.00
Planters Large	0	7 ea.	7		\$6,996.25	\$48,973.75	\$0.00
Planters Medium	0	18 ea.	18		\$3,598.00	\$64,764.00	\$0.00
Planters Small	0	10 ea.	10		\$1,937.50	\$19,375.00	\$0.00
Backfill Planters	0	13 cyds.	13		\$98.95	\$1,286.35	\$0.00
Irrigation	1	1	49,733	7,395		\$42,338.00	\$0.00
French Drain	0	80 L.F.	80		\$12.75	\$1,020.00	\$0.00
						\$233,581.54	-\$6,535.00



Total Add from New Plan	\$233,581.54
Original Contract Amount	<u>\$ 27,915.46</u>
New Total Contract Amount	\$261,497.00

If you have any questions, please don't hesitate to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Joe L. Aguilar, Jr." in a cursive script.

Joe L. Aguilar, Jr.



RFP

Capital Improvement Department

MAYOR

Oscar Leeser

Request for Proposal No. 2

May 24, 2021

CITY COUNCIL

District 1

Peter Svarzbein

District 2

Alexandra Anello

District 3

Cassandra Hernandez

District 4

Joe Molinar

District 5

Isabel Salcido

District 6

Claudia L. Rodriguez

District 7

Henry Rivera

District 8

Cissy Lizarraga

CITY MANAGER

Tommy Gonzalez

JAR Construction
8000 Escobar Dr
El Paso, Texas 79907

RE: *Paso Del Norte Roundabout Improvements*
Solicitation No. 2019-452 TxDOT CSJ No. 0924-06-539
Landscape and irrigation revision RFP

Mr. Valenzuela,

The City of El Paso, Capital Improvement Department is requesting a Cost Proposal for the following items:

Scope of work:

Furnish all labor, materials, equipment and supervision to provide the additional landscaping described on sheets LG-001, LG-002, LP-101, LP-102, LP-103, LP-104, LI-101, LI-102, LI-103, LC-507, LC-508, LC-509, LC-510, LP-501, LI-501.

Specification Changes: N/A

Drawing Changes: LG-001, LG-002, LP-101, LP-102, LP-103, LP-104, LI-101, LI-102, LI-103, LC-507, LC-508, LC-509, LC-510, LP-501, LI-501.

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

This is not a Change Order, a Construction Change Directive or a direction to proceed with the work described in the proposed modifications. If the proposal is found acceptable, a Change Order will be processed and executed in accordance to the Contract's General Conditions. The Contract Sum and Contract Time may only be changed via an executed Change Order.

If you have any questions or comments, please do not hesitate to contact me at (915) 873-1677 or pedrozaax@elpasotexas.gov.

Sincerely,

Alex Pedroza
Project Manager

Yvette Hernandez, P.E. – Grant Funded Program Director
Capital Improvement Dept. | 218 N. Campbell | El Paso, TX 79901



GENERAL NOTES (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #192)

- 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW AND REFERENCE TXDOT SPECIFICATIONS.
- 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.
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.
- ALL LANDSCAPE AREAS SHALL BE GRADED TO FINISH SOIL DEPTH OF 4" BELOW TOP OF CURB AND EDGE OF SIDEWALK.
- 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. ADDITIONALLY, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO TRAFFIC SIGNAL INFRASTRUCTURE.
- APPROVAL OF TRAFFIC CONTROL PLAN BY TXDOT - ISSUE 48 HRS. PRIOR TO NOTICE TO PROCEED. 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.
- PRIOR TO TURNING OVER THE PROJECT, AS-BUILTS SHALL BE PROVIDED TO THE CITY OF EL PASO'S CAPITAL IMPROVEMENT DEPARTMENT (CID) PROJECT MANAGER, THE IRRIGATION TRANSMITTER SHALL ALSO BE SUBMITTED FOR PROGRAMMING.
- THE CONTRACTOR SHALL BE FAMILIAR AND REFER TO THE "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES" FOR CONSTRUCTION AND INSTRUCTIONS FOR THE ENTIRELY OF THE PROJECT. REFER TO <http://ftp.dot.state.tx.us/pub/txdot-info/des/spec-book-1114.pdf>
- THE LANDSCAPE ARCHITECT SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
- MAINTENANCE AND PROTECTION OF NEW PLANT MATERIAL SHALL CONTINUE FOR 90 DAYS AFTER PLANTING. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, REMOVAL OF DEAD MATERIAL AND DEBRIS, RESETTING OF TREES TO UPRIGHT POSITIONS AND SUCH OTHER OPERATIONS AS MAY BE NECESSARY FOR THE HEALTH OF THE PLANTED STOCK AND THE GENERAL APPEARANCE OF THE LANDSCAPED AREAS. PROTECTION SHALL INCLUDE CARE OF THE PLANTED STOCK FROM DAMAGES RESULTING FROM, EROSION (INCLUDING WATERING), WEATHER, DISEASE AND THE LIKE.
- ALL TREES, SHRUBS AND GROUND COVERS SHALL BE GUARANTEED FOR THE PERIOD OF 90 DAYS, BEGINNING AFTER ITEM 192 HAS BEEN COMPLETED AND ACCEPTED.
- CONTRACTOR SHALL APPLY A HERBICIDE AND PRE-EMERGENT TO ALL LANDSCAPE AREAS PRIOR TO COMMENCING WORK, AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS CONSULT THE LANDSCAPE ARCHITECT BEFORE PLANTING.
- PLANT OR INSTALL MATERIALS DURING NORMAL PLANTING SEASONS FOR EACH TYPE OF LANDSCAPE WORK REQUIRED.

PLANTING NOTES (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #192)

- ALL LANDSCAPE OPERATIONS SHALL CONFIRM TO EL PASO CITY CODE 18.46 AND THE "POLICY AND STANDARDS MANUAL FOR THE CARE OF TREES AND SHRUBS IN THE CITY OF EL PASO".
- ALL NEW PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS. EXISTING TREES AND SHRUBS SHALL BE PROTECTED WHEN PLANTING OPERATIONS INCLUDING THOSE HEAVY MACHINERY MAY COME IN PROXIMITY OF 20 FEET FROM EDGE OF CANOPY.
- PLANT MATERIAL SUBSTITUTIONS SHALL NOT BE MADE WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. THE SUBSTITUTION OF MATERIALS DIFFERING IN KIND, QUALITY OR SIZE FROM THAT SPECIFIED WILL BE ALLOWED ONLY AFTER THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IS CONVINCED THAT ALL MEANS OF OBTAINING THE SPECIFIED MATERIALS HAVE BEEN EXHAUSTED. CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE THAT ALL MATERIALS NECESSARY TO COMPLETE THE PROJECT AS SPECIFIED HAVE BEEN LOCATED AND ALL REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED NO LATER THAN 2 WEEKS PRIOR TO THE INITIATION OF WORK.
- PLANT MATERIAL QUALITY, SIZE AND CONDITION SHALL BE IN ACCORDANCE WITH AMERICAN STANDARD FOR NURSERY STOCK CURRENT EDITION, AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. ALL PLANTS SHALL HAVE NORMAL, WELL DEVELOPED BRANCHES AND VIGOROUS ROOT SYSTEMS. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, FREE FROM DEFECTS, DISFIGURING KNOTS, ABRASIONS OF THE BARK, SUNSCALD INJURIES, PLANT DISEASES, INSECT EGGS, BORES AND ALL OTHER FORMS OF INFECTIONS.
- UNLESS OTHERWISE STATED ON THE DRAWINGS OR APPROVED BY THE LANDSCAPE ARCHITECT, ALL PLANTS SHALL BE NURSERY GROWN AND SHALL BE TAGGED WITH NURSERY LABELS INDICATING SPECIES AND VARIETY. TAGS SHALL REMAIN ON UNTIL PROJECT IS ACCEPTED BY CITY OF EL PASO AND LANDSCAPE ARCHITECT; ALL TAGS SHALL THEN BE REMOVED.
- BALLED AND BURLAPPED PLANT MATERIAL SHALL HAVE A SOLID BALL OF EARTH OF MINIMUM SPECIFIED SIZE AND HELD IN PLACE SECURELY BY BURLAP AND A STOUT TWINE OR ROPE. BROKEN OR LOOSE BALLS WILL BE REJECTED.
- THE LANDSCAPE ARCHITECT AND CITY ARBORIST SHALL INSPECT ALL PLANT MATERIAL AT THE CONTRACTOR'S YARD PRIOR TO DELIVERY, DURING PLANTING AND AFTER PLANTING AT THE JOB SITE. CONTRACTOR SHALL SCHEDULE AND COORDINATE NURSERY VISIT WITH A MINIMUM OF TWO WEEKS IN ADVANCE FOR THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE TO INSPECT AND TAG PLANT MATERIAL AT A WHOLESALE NURSERY OF THE CONTRACTOR'S CHOICE PRIOR TO DELIVERY OF MATERIALS TO THE CONTRACTOR'S YARD.
- THE LANDSCAPE ARCHITECT / CITY ARBORIST SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. ALL REJECTED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND REPLACED WITH ACCEPTABLE MATERIAL AT NO ADDITIONAL COST TO OWNER.
- CONTAINER GROWN PLANT MATERIAL SHALL HAVE BEEN ESTABLISHED IN ITS DELIVERY CONTAINER FOR NOT LESS THAN SIX MONTHS, BUT FOR NOT MORE THAN TWO YEARS. ANY ROOTBOUND MATERIAL WILL NOT BE ACCEPTED.
- UNLESS SPECIFICALLY NOTED ON THE DRAWINGS, ALL TREES SHALL HAVE A SINGLE TRUNK THAT IS STRAIGHT AND FREE OF "DOG-LEGS", "CROOKS", "Y-CROTCHES", OR OTHER DISFIGURING SHAPES. THE CENTRAL LEADER OF ALL TREES SHALL NOT HAVE BEEN PRUNED. TREES WITH DOUBLE LEADERS ARE NOT ACCEPTABLE, UNLESS SPECIFIED AS MULTI-TRUNKED.
- ALL PLANT MATERIAL SHALL HAVE A UNIFORM SHAPE AROUND ITS COMPLETE CIRCUMFERENCE. PLANT MATERIAL WITH IRREGULAR BRANCHING PATTERNS OR WITH BRANCHING PATTERNS MORE HIGHLY DEVELOPED ON ONE SIDE THAN ON OTHER SIDES SHALL NOT BE ACCEPTABLE.
- TREE LOCATIONS AS SHOWN ARE SCHEMATIC AND MAY VARY BASED ON SIGNAGE & UNDERGROUND UTILITY LOCATIONS, AND OTHER SITE CONSTRAINTS. TREE LOCATIONS SHALL COMPLY WITH ALL JURISDICTIONAL ORDINANCES WHICH APPLY. PLANS ARE DIAGRAMMATIC AND APPROXIMATE DUE TO THE SCALE OF THE DRAWINGS, AND NOT ALL INDIVIDUAL SHRUBS AND/OR GROUND COVERS ARE NECESSARILY SHOWN.
- NO PLANTS SHALL BE LOCATED WITHIN 5 FT. RADIUS OF FIRE HYDRANT, LEAVE PLANTS OUT OR MORE OVER IF WITHIN 6" OF ORIGINAL PLANT LOCATION, AFTER LOCATING AND VERIFYING LOCATION OF FIRE HYDRANT, NOTIFY LANDSCAPE ARCHITECT / CITY ARBORIST AS TO NEW LOCATION FOR PLANT MATERIAL..
- TREES SHALL ONLY BE STAKED (BASED ON THE PLANTING SEASON) IF APPROVED BY AND AT THE DIRECTION OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AS PER THE APPROPRIATE TREE PLANTING DETAIL AND SHALL BE STAKED AT NO ADDITIONAL COST.
- PLANTING SOIL BACKFILL SHALL CONSIST OF CLEAN SOILS AND SHALL BE FREE FROM RUBBISH, ROCK, LARGE STONES BRUSH, SOD, FROZEN MATERIAL OR OTHER UNSUITABLE SUBSTANCE THAT IS DETRIMENTAL TO PLANT GROWTH.
- NO PLANTING AREA WILL BE LEFT UNCOVERED OR NOT TOP-DRESSED. ALL PLANTING AREAS WILL BE PLANTED WITH TREES, SHRUBS OR GROUND COVERS. ALL PLANTING AREAS WILL BE MULCHED AS PER PLANS.
- ADEQUATE VERTICAL CLEARANCE BELOW THE BRANCHES MUST BE MAINTAINED FOR PEDESTRIANS, CARS AND BICYCLIST. THE MINIMUM HEIGHT TO THE LOWEST BRANCH OVERHANGING A SIDEWALK SHALL BE SEVEN FEET.

PLANTING NOTES (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #192)

- CONTRACTOR SHALL APPLY A HERBICIDE AND PRE-EMERGENT TO ALL LANDSCAPE AREAS PRIOR TO COMMENCING WORK, AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL TRANSPORT ALL SPECIFIED PLANT MATERIAL DURING DAY TIME HOURS WITH TEMPERATURES BELOW 78 DEGREES FAHRENHEIT. ALL PLANT MATERIAL SHALL BE COVERED AND PROTECTED FROM EXPOSURE TO WIND AS THIS WILL DIRECTLY CAUSE LEAF WATER-LOSS AND PLANT-SHOCK. THE LANDSCAPE ARCHITECT / CITY ARBORIST SHALL BE THE JUDGE OF THE QUALITY AND ACCEPTABILITY OF ALL PLANT MATERIALS. CONTRACTOR TO COORDINATE ACCORDINGLY.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EXISTING LANDSCAPE AREAS, SECURING THE OVERALL HEALTH AND WELL-BEING OF EXISTING TREES, SHRUBS, AND GROUND COVERS. EXISTING VEGETATION SHALL NOT BE RESTRAINED FROM WATERING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WATER AS IS REQUIRED FOR THE VEGETATION'S NEEDS; ANY DAMAGE TO EXISTING VEGETATION CAUSED BY THE CONSTRUCTION ACTIVITY SHALL BE REPLACED OR AMENDED AT THE CONTRACTOR'S EXPENSE.

PLANT MAINTENANCE

(ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #193)

- MAINTENANCE AND PROTECTING OF NEW TREES (ITEM # 193 6011), SHRUBS (ITEM # 193 6005), SHALL BEGIN IMMEDIATELY COMPLETION OF ITEM 192. MAINTENANCE SHALL INCLUDE WATERING (ITEM # 193 6006), WEEDING , CULTIVATING, REMOVAL OF DEAD MATERIAL AND DEBRIS, RESETTING OF TREES TO UPRIGHT POSITIONS, RESTORATION OF EARTH BASINS, AND SUCH OTHER OPERATIONS AS MAY BE NECESSARY FOR THE HEALTH OF THE PLANTED STOCK AND THE GENERAL APPEARANCE OF THE LANDSCAPED AREAS (ITEM # 193 6001). PROTECTION SHALL INCLUDE CARE OF THE PLANTED STOCK FROM DAMAGES RESULTING FROM EROSION (INCLUDING WATERING), APPARENT NEGLIGENCE DURING THE MAINTENANCE CYCLE, DISEASE AND THE LIKE.
- ALL TREES, SHRUBS AND GROUND COVERS SHALL BE MAINTAINED FOR THE PERIOD OF ONE YEAR, BEGINNING AFTER ITEM 192 HAS BEEN COMPLETED.

PRE-EMERGENT NOTES

- CONTRACTOR SHALL HAVE A TDA LICENSED APPLICATOR APPLY SURFLAN OR APPROVED EQUAL PRE-EMERGENT TO PROJECT SITE DURING BEGINNING OF CONSTRUCTION, AFTER FINAL GRADING, BUT PRIOR TO INSTALLATION OF WEED FABRIC. CONTRACTOR SHALL SUBMIT PRODUCT DATA AS WELL AS TDA LICENSED APPLICATOR NAME, LICENSE NUMBER AND COMPANY DETAILS. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION AND PRE-EMERGENT MUST INCLUDE PREVENTION OF ALL INVASIVE WEEDS AND GRASSES, INCLUDING BERMUDA GRASS. APPLICATION MUST INCLUDE FADE AWAY FLUORESCENT DYE AND CONTRACTOR MUST GIVE OWNER REPRESENTATIVE APPLICATION COMMENCEMENT DATE FOR RECORD. A COMBINATION OF PRE-EMERGENT PRODUCTS MAY BE USED IN ORDER TO ACHIEVE DESIRED RESULTS - PREVENTION OF FUTURE WEEDS AND GRASSES. HOWEVER, PRODUCT(S) MUST NOT HARM EXISTING DESIRABLE PLANTS, OR NEW PLANTS AND PROPER PROTECTION OF EXISTING PLANTS AND TREE ROOT SYSTEMS MUST BE TAKEN AS DIRECTED BY PRODUCT LITERATURE. CONTRACTOR TO PROVIDE MSDS INFORMATION FOR PRODUCT(S) IN SUBMITTAL PACKAGE.

LANDSCAPE ARCHITECT'S SEAL	 <p>04-12-2021</p>
SCALE	HOR: _____ VER: N/A DATE: APRIL 2021 DESIGN BY: RC DRAWN BY: RC CHECKED BY: D.A.P. APPROVED BY: D.A.P. JOB No: 1010-041
PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS	 <p>817 0106 AVE. El Paso, TX 79901 p 915.873.7385 / 915.873.7313 www.greenway-studio.com</p>
CAPITAL IMPROVEMENT CITY OF EL PASO	<p>LANDSCAPE GENERAL NOTES</p>
CAPITAL IMPROVEMENT CITY OF EL PASO	<p>218 N. CAMPBELL STREET EL PASO, TEXAS 79901 TELE 915.212.0065 FAX 915.212.0066</p>
CAPITAL IMPROVEMENT CITY OF EL PASO	
SHEET	_____ OF _____

IRRIGATION NOTES (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #170)

1. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO INITIATION OF CONSTRUCTION BY INSTALLING A FLOW METER AND PRESSURE GAUGE ON THE DOWNSTREAM SIDE OF THE WATER METER. THIS INFORMATION SHALL BE PROVIDED TO THE IRRIGATION DESIGNER / CLIENT REPRESENTATIVE IN WRITING FOR APPROVAL, PRIOR TO PROCEEDING.
2. THIS IS A POTABLE IRRIGATION SYSTEM, ANTICIPATED AT 70 PSI AT THE POINT OF CONNECTION. A NEW BACKFLOW WILL BE REQUIRED. CONTRACTOR SHALL PROVIDE AND INSTALL AS SHOWN ON DETAIL A/LI-501, AT NO ADDITIONAL COST TO THE OWNER.
3. LICENSED IRRIGATOR IN GOOD STANDING IN THE STATE OF TEXAS REQUIRED ON JOB SITE AT ALL TIME. CONTRACTOR SHALL FIELD VERIFY PRESSURE PRIOR TO INITIATION OF CONSTRUCTION BY INSTALLING A FLOW METER AND A PRESSURE GAUGE ON THE DOWNSTREAM SIDE OF THE WATER METER. THIS INFORMATION SHALL BE PROVIDED TO THE IRRIGATION DESIGNER IN WRITING FOR APPROVAL, PRIOR TO PROCEEDING.
4. ANY EXPOSED IRRIGATION PIPE SHOULD BE PROTECTED FROM FREEZE AND UV DAMAGED WITH INSULATED TAPE.
5. 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 / CITY ARBORIST.
6. 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.
7. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
8. 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. ACTUAL ALIGNMENTS TO BE LOCATED AS PER NOTES OR AS PER APPROVED IN FIELD BY LANDSCAPE ARCHITECT AND CITY ARBORIST.
9. INSTALL EMITTERS ON THE TOP SIDE OF PLANTS ROOTBALL.
10. ROTOR SPRAY AND WATERING ON HARDSCAPE (WALKWAYS, CONCRETE PADS, STREETS, ETC.) IS STRICTLY PROHIBITED. CONTRACTOR SHALL REPLACE AND AMEND ROTORS AS NECESSARY TO AVOID OVERSPRAY. WHERE NEW HARDSCAPE FEATURES ARE INSTALLED, THE CONTRACTOR SHALL MOVE ROTORS OF CLOSE PROXIMITY TO THE EDGE OF THE HARD SURFACE (6-INCHES) AND REDIRECT SPRAY ARCS AWAY FROM THE HARDSCAPE.
11. CONTRACTOR SHALL ABIDE BY CITY OF EL PASO'S REQUIREMENTS AND TCEQ IRRIGATION REQUIREMENTS. IN THE EVENT OF A CONFLICT BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN, CONTRACTOR SHALL NOTIFY THE LICENSED IRRIGATION DESIGNER IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES CLARIFICATION IN WRITING FROM THE CONSULTANT.
12. 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.
13. 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.
14. 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.
15. FIELD WIRING SHALL BE IN A SEPARATE TRENCH & EXPANSION LOOPS SHALL BE PROVIDED EVERY 200 FEET, WIRE SHALL NOT BE STRETCHED TIGHT. VALVE WIRE SHALL BE STANDARD COLORS RED (HOT) AND WHITE (COMMON) & LABELED AT CONTROLLER AND IN VALVE BOX. CONNECTIONS AT VALVES MUST BE MADE WITH DRI-SPLICE CONNECTORS. CONNECTORS MUST BE READY FILLED FROM FACTORY WITH SILICONE.
16. CONTRACTOR SHALL REFER TO CITY OF EL PASO STREETS & TRAFFIC STANDARD SPECIFICATIONS FOR IRRIGATION CONSTRUCTION. IN THE EVENT OF A CONFLICT BETWEEN SPECIFICATIONS AND IRRIGATION DESIGN, CONTRACTOR SHALL NOTIFY THE LICENSED IRRIGATION DESIGNER IN WRITING. THE CONTRACTOR SHALL NOT PROCEED WITH INSTALLATION OF CONFLICTING IRRIGATION COMPONENTS UNTIL HE RECEIVES CLARIFICATION IN WRITING FROM THE CONSULTANT.
17. MAINLINE SHALL BE HYDROSTATICALLY TESTED FOR 24 HOURS.

IRRIGATION NOTES (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #170)

18. 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.
19. CONTRACTOR TO COVER ALL FEES FOR INSTALLATION AND MAINTENANCE OF IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO WATER METER UNTIL FINAL ACCEPTANCE.
20. AGAVE SPECIMEN INDICATED ON PLANS SHALL NOT BE WATERED THROUGH THE AUTOMATIC IRRIGATION SYSTEM. SPECIMENS SHALL BE HAND WATERED IMMEDIATELY AFTER INSTALLATION AND SHORTLY BEFORE FINAL WALK-THROUGH.
21. IRRIGATION RUN TIME SCHEDULE FOR FIRST 3 YEARS: 3 TIMES PER WEEK FOR SUMMER MONTHS (MAY-SEPTEMBER). IN THE WINTER MONTHS (OCTOBER-APRIL), RUN TIME SHALL STAY THE SAME, BUT SHALL BE REDUCED TO 1 TIME PER WEEK. FOR SUBSEQUENT YEARS, SCHEDULE SHALL BE FURTHER REDUCED.
22. IRRIGATION CONTROLLER PLACEMENT IS BASED ON THE BEST AVAILABLE INFORMATION HOWEVER THE CONTRACTOR SHALL COORDINATE, VERIFY, AND DETERMINE EXACT LOCATION WITH THE OWNER REPRESENTATIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE SUCH ITEMS EARLY IN CONSTRUCTION. CHANGES IN CONTROLLER PLACEMENT SHALL COME AT NO ADDITIONAL COST TO THE OWNER.
23. CONCRETE THRUST BLOCKS SHALL BE PROVIDED WHERE NECESSARY TO RESIST SYSTEM PRESSURE. THRUST BLOCKS SHALL BE CONSTRUCTED AT ALL CHANGES OF DIRECTION, SIZE CHANGES, VALVES AND TERMINATIONS, OR AT ANY OTHER POINTS OF THE SYSTEM THAT WILL RESULT IN AN UNBALANCED THRUST LINE FOR EQUIPMENT 2 (TWO) INCHES AND LARGER. DO NOT OBSTRUCT THE OUTLETS OF FITTINGS WHICH ARE INTENDED FOR FUTURE CONNECTIONS. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH AND IN ACCORDANCE WITH THE PLANS OR STANDARD DETAILS.
24. UPON PROJECT'S FINAL ACCEPTANCE BY OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL PROVIDE OWNER'S REPRESENTATIVE THE PERTINENT INFORMATION, SUCH AS THE METER NO., ACCOUNT NO., LOCATION, ETC; AND A LETTER OF ACCEPTANCE BY THE CITY OF EL PASO'S DEPARTMENT OF TRANSPORTATION TO TRANSFER THE RESPONSIBILITY TO THE CITY OF EL PASO.
25. UPON COMPLETION OF IRRIGATION INSTALLATION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A BACKFLOW TEST BY A CERTIFIED BACKFLOW INSPECTOR AND SUBMIT WRITTEN RESULTS TO OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. CONTRACTOR SHALL PROVIDE A YEARLY BACKFLOW TEST AND PROVIDE RESULTS TO THE CITY OF EL PASO WITHIN TEN MONTHS OF THE PROJECTS FINAL ACCEPTANCE.
26. IRRIGATION IN TEXAS IS REGULATED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, PO BOX 13087 AUSTIN, TX 78711.

LANDSCAPE ARCHITECT'S SEAL



SCALE

HOR: _____
 VER: N/A
 DATE: APRIL 2021
 DESIGN BY: R.C.
 DRAWN BY: R.C.
 CHECKED BY: D.A.P.
 APPROVED BY: D.A.P.
 JOB No: 1010-041



817 OLIVE AVE. | EL PASO, TX 79901
 p 915.873.7395 / 915.873.7313
 www.greenway-studio.com

PASO DEL NORTE (PDN) PORT OF ENTRY
 (POE) ROUNDABOUT IMPROVEMENTS

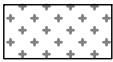
LANDSCAPE GENERAL NOTES

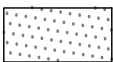
CAPITAL IMPROVEMENT
CITY OF EL PASO
 218 N. CAMPBELL STREET
 EL PASO, TEXAS 79901
 TELE 915.212.0065
 FAX 915.212.0066

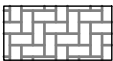



SHEET


MATERIAL LEGEND


 PROVIDE AND INSTALL LOOSE AGGREGATE TYPE I COLOR: DESERT TAN OR APPROVED EQUAL SIZE: 2" - 4" LAYER DEPTH: 4" DEPTH WITH FILTER FABRIC (TXDOT ITEM# 0192 6017) TXDOT ITEM# 1005-6001 TY I. BASE BID APPROX. QUANTITY: 2,282 SQ.FT.

 PROVIDE AND INSTALL LOOSE AGGREGATE TYPE II COLOR: DESERT TAN OR APPROVED EQUAL SIZE: 1-1/2" LAYER DEPTH: 3" DEPTH WITH FILTER FABRIC (TXDOT ITEM# 0192 6017) TXDOT ITEM# 1005-6002 TY II. BASE BID APPROX. QUANTITY: 1,245 SQ.FT.


 PROVIDE AND INSTALL PAVERS, SIZE 4" X 8", BASKET WAVE PATTERN, TUMBLED/ANTIQUED FINISH, COLOR SIERRA, OR APPROVED EQUAL. REFER TO DETAILS K/N/LC-504 CONTRACTOR TO INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 5)


 PROVIDE AND INSTALL INTEGRAL COLORED CONCRETE PAVING, COLOR: SLATE, AT 3000 PSI. REFER TO DETAIL L,P/LC-504. (SUBSIDIARY TO TX DOT ITEM# 0528 6001)


 GOLDEN BROWN BOULDERS (12) - 2'x2', 3'x3', & 4'x4' EVENLY MIXED, PARTIALLY BURIED. REFER TO DETAIL K/LC-504. (SUBSIDIARY TO TXDOT ITEM # 1002 6029)


 INSTALL SWALE FOR WATER HARVESTING, GRADUALLY GRADE TO FINAL DEPTH, 6" INCHES PER CONTOUR. REFER TO DETAIL AB/LC-507. (SUBSIDIARY TO TXDOT ITEM # 0110 6003 - EXCAVATION SPECIAL)


MATERIAL LEGEND


 PROVIDE AND INSTALL 32 GAL TRASH RECEPTACLE, SIDE OPENING, SURFACE MOUNT OR APPROVED EQUAL. REFER TO DETAIL R/LC-504. (SUBSIDIARY TO TXDOT ITEM # 1002 6025)


 PROVIDE AND INSTALL BIKE RACK, 5-LOOP RACK, SURFACE MOUNT OR APPROVED EQUAL. REFER TO DETAIL N/LC-504. (SUBSIDIARY TO TXDOT ITEM # ELP ELP25)


 PRESERVE AND PROTECT EXISTING DUMOR LETTER BIKE RACK (DWN/TWN), AND RELOCATE AS SPECIFIED ON PLANS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 3)


 PROVIDE AND INSTALL SECURITY BOLLARD, IN-GROUND MOUNT OR APPROVED EQUAL. REFER TO DETAIL T/LC-505 AND ELECTRICAL PLANS.


 PROVIDE AND INSTALL REMOVABLE BOLLARD, IN-GROUND MOUNT OR APPROVED EQUAL. REFER TO DETAIL S/LC-505. (SUBSIDIARY TO TXDOT ITEM # ELP ELP26)


 REMOVE EXISTING BENCH AND REPLACE WITH 6" BENCH, WITHOUT BACK AND ARMRESTS, SURFACE MOUNT OR APPROVED EQUAL. REFER TO DETAIL Q/LC-504. (SUBSIDIARY TO TXDOT ITEM # 1002 6026)


 PROVIDE AND INSTALL STEEL FENCE, REFER TO DETAILS U,V/ LC-505 AND Y/LC-506. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 11)

 PROVIDE AND INSTALL STEEL FENCE, REFER TO DETAILS V/LC-505, AND W,Y/LC-506 . (SUBSIDIARY TO TXDOT ITEM # ELP ELP 11)

 PROVIDE AND INSTALL PLANTERS UNLIMITED FIBERSTONE LOW BOWL PLANTER, SIZE: 112" X 18", REFER TO DETAILS AC, AF/LC-508 AND AG, AI/LC-509. (SUBSIDIARY TO TXDOT ITEM # 1002 6002)

 PROVIDE AND INSTALL PLANTERS UNLIMITED FIBERSTONE LOW BOWL PLANTER, SIZE: 96" X 16", REFER TO DETAILS AD, AF/LC-508 AND AG, AJ/LC-509. (SUBSIDIARY TO TXDOT ITEM # 1002 6003)

 PROVIDE AND INSTALL PLANTERS UNLIMITED FIBERSTONE LOW BOWL PLANTER, SIZE: 60" X 14", REFER TO DETAILS AE, AF/LC-508, AG, AK/LC-509. (SUBSIDIARY TO TXDOT ITEM # 1002 6004)

 EXISTING TREE TO REMAIN; PRESERVE AND PROTECT. REFER TO TREE PROTECTION DETAIL F/LP-505. (SUBSIDIARY TO TXDOT ITEM # 1004 6001)

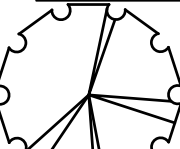

KEYED NOTES

- 1 PRESERVE AND PROTECT EXISTING INFORMATION KIOSK.
- 2 CONCRETE RAMP, REFER TO ENGINEERING PLANS.
- 3 INSTALL CONCRETE CURB CUT. (CURB CUT SHALL ALLOW WATER TO ENTER LANDSCAPE SWALE.) REFER TO ENGINEERING PLANS.
- 4 EXISTING ELECTRIC POLE, REFER TO ELECTRICAL PLANS.
- 5 LIGHT FIXTURE, REFER TO ELECTRICAL ENGINEERING PLANS.
- 6 REINFORCED CONCRETE SPEED TABLE, REFER TO ENGINEERING PLANS.
- 7 EXISTING FIRE HYDRANT TO PRESERVE AND PROTECT.
- 8 CONCRETE APRON, REFER TO CIVIL ENGINEERING PLANS.
- 9 NEW FLAGPOLE, REFER TO ENGINEERING PLANS.
- 10 PROVIDE AND INSTALL DOUBLE STEEL GATE, REFER TO DETAIL, REFER TO DETAIL, Z,AA/LC-507. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 21)
- 11 SCULPTURE FEATURE, CONTAINMENT, AND SIGNAGE; REFER TO SHEETS LC-501, LC-502 AND LC-503. CONTRACTOR SHALL REFERENCE STRUCTURAL FOOTING AND ANCHORING ON STRUCTURAL ENGINEERING PLANS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 12)
- 12 FRENCH DRAIN SYSTEM, REFER TO DETAIL AL/LC-510.
- 13 CONCRETE STOP FEATURE, REFER TO DETAIL AL/LC-510.
- 13 PROTOTYPICAL 96"x16" PLANTER PLANTING AT SCULPTURE FEATURE, REFER TO DETAIL AH/LC-509.
- 14 SCULPTURE FOOTING, REFER TO STRUCTURAL ENGINEERING PLANS.

PLANT SCHEDULE (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #192)

SYMBOL BOTANICAL NAME COMMON NAME QUANTITY SIZE & COMMENTS HT x SPR





TREES SHALL BE INSTALLED AS PER DETAILS

	<i>Chilopsis linearis</i> 'Art's Seedless'	DESERT WILLOW	1	3" CALIPER, 10FT MIN.	25' X 25'
	<i>Lagerstroemia indica</i> x <i>fauriei</i> 'Natchez'	NATCHEZ CRAPE MYRTLE	6	25 GAL. 8FT MIN	15'X15'



SHRUBS, PERENNIALS & GRASS PLANTINGS, INSTALL AS PER DETAILS.

	<i>Pennisetum alopecuroides</i> 'Hameln'	DWARF FOUNTAIN GRASS	18	5 GAL.	3' x 3'
	<i>Artemisia</i> 'Powis Castle'	POWIS CASTLE	36	5 GAL.	1' X 2'
	<i>Hesperaloe Funifera</i> 'Brakelights' TM	BRAKELIGHTS RED YUCCA	64	5 GAL.	2' x 2'

CACTI, AGAVE, SUCCULENTS AND DESERT PLANT MATERIAL; INSTALL AS PER DETAILS ON SHEET LP-501.

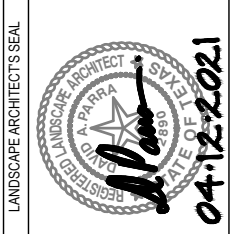
	<i>Dasyliroon longissimum</i>	SOTOL	2	5 GAL.	3' X 3'
	<i>Hesperaloe funifera</i>	GIANT HESPERALOE	64	5 GAL.	3' X 4'
	<i>Yucca recurvifolia</i>	SOFT LEAF YUCCA	3	5 GAL.	3' X 3'
	<i>Opuntia Cacanapa</i> "Elisiana"	SPINELESS PRICKLY PEAR	36	5 GAL.	3' X 3'

GROUND COVER, INSTALL AS PER DETAILS. LETTER & NUMBER WILL INDICATE PLANT ABBREVIATION AND QUANTITY.

	IP	<i>Delosperma cooperi</i>	PURPLE ICE PLANT	202	1 GAL.	1' X 2'
	DN	<i>Delosperma Nubigenum</i> 'Yellow'	YELLOW ICEPLANT	42	1 GAL.	1' X 2'

NOTES:

1. THE DESIGN PLACEMENT AND / OR PATTERN DESIGN FOR PLANT MATERIAL SHALL BE CONSISTENT TO PLANS. PLANT SPACING, ROWS, AND PROXIMITY TO EACH OTHER SHALL BE OBSERVED CLOSELY.
2. 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.



SCALE: _____
 HOR: _____
 VER: N/A
 DATE: APRIL 2021
 DESIGN BY: RC
 DRAWN BY: RC
 CHECKED BY: DAP
 APPROVED BY: DAP
 JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

LANDSCAPE PLAN (SCHEDULES AND NOTES)

CAPITAL IMPROVEMENT CITY OF EL PASO

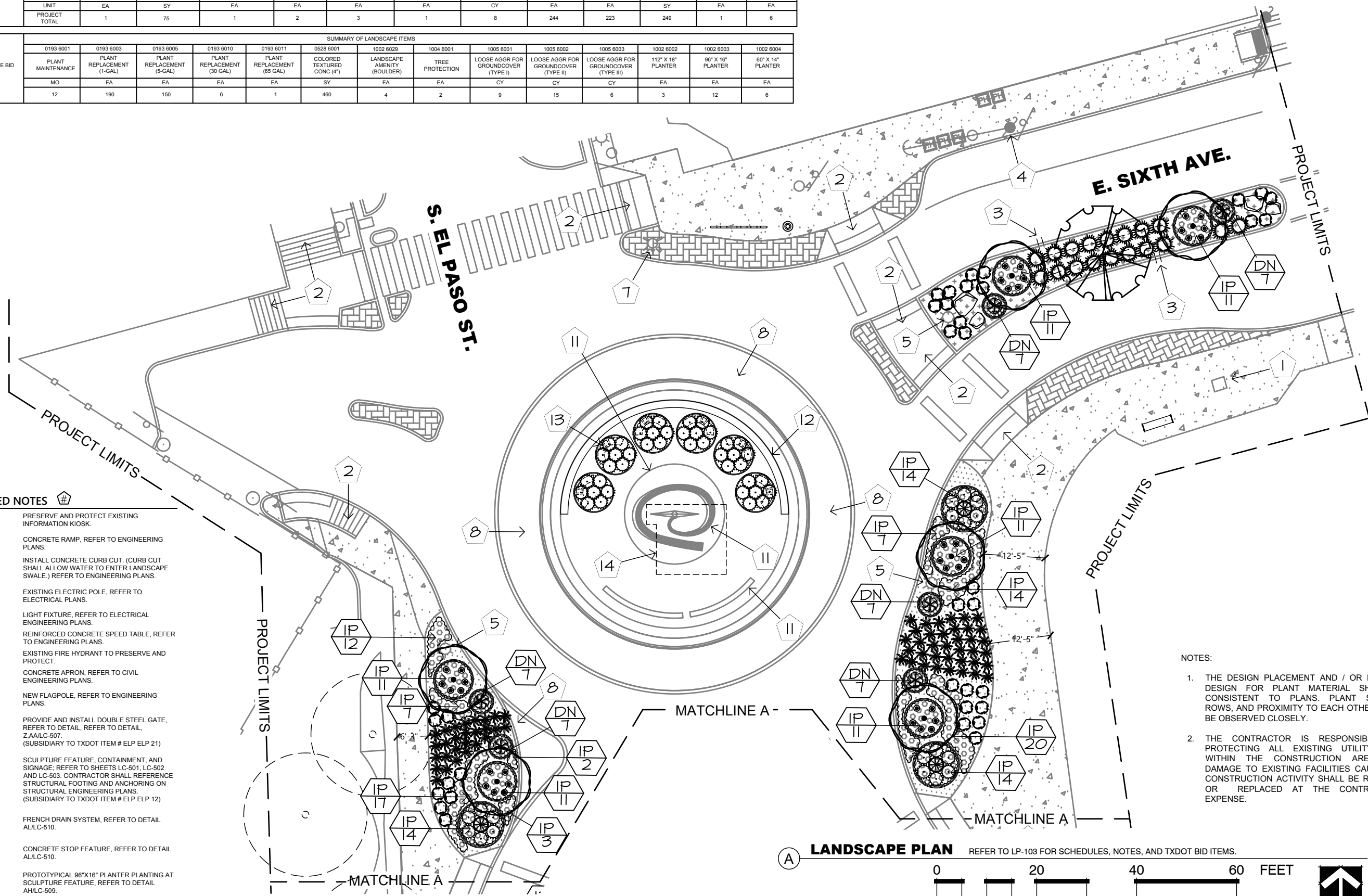
218 N. CAMPBELL STREET
 EL PASO, TEXAS 79901
 TELE 915.212.0065
 FAX 915.212.0066



SHEET _____ OF _____

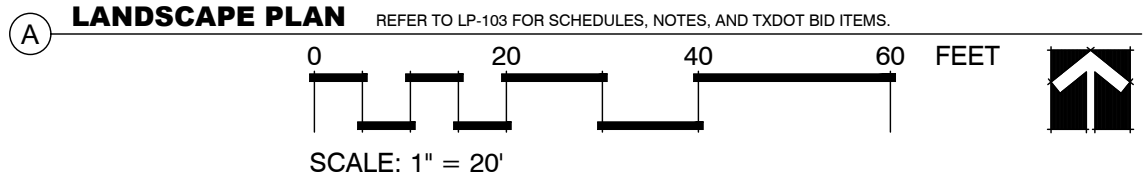
SUMMARY OF LANDSCAPE ITEMS												
ITEM CODE	ELP ELP3	ELP ELP5	ELP ELP12	ELP ELP25	1002 6025	1002 6026	0110 6003	0192 6002	0192 6004	0192 6017	0192 6046	0192 6074
DESCRIPTION	REMOVING STRUCTURES	PAVER WALKWAYS	ROUNDBOUT CONTAINMENT AND STRUCTURAL FEATURES	BIKE RACK (INSTALL)	LANDSCAPE AMENITY (TRASH/RECYCLE BIN)	LANDSCAPE AMENITY (BENCH)	EXCAVATION (SPECIAL)	PLANT MATERIAL (1-GAL)	PLANT MATERIAL (5-GAL)	VEGETATION BARRIER	PLANT MATERIAL (MIN 3" CAL) (B&B)	PLANT MATERIAL (25-GAL)
UNIT	EA	SY	EA	EA	EA	EA	CY	EA	EA	SY	EA	EA
PROJECT TOTAL	1	75	1	2	3	1	8	244	223	249	1	6

SUMMARY OF LANDSCAPE ITEMS													
0193 6001	0193 6003	0193 6005	0193 6010	0193 6011	0528 6001	1002 6029	1004 6001	1005 6001	1005 6002	1005 6003	1002 6002	1002 6003	1002 6004
PLANT MAINTENANCE	PLANT REPLACEMENT (1-GAL)	PLANT REPLACEMENT (5-GAL)	PLANT REPLACEMENT (30 GAL)	PLANT REPLACEMENT (65 GAL)	COLORLED TEXTURED CONC (4")	LANDSCAPE AMENITY (BOULDER)	TREE PROTECTION	LOOSE AGGR FOR GROUND COVER (TYPE I)	LOOSE AGGR FOR GROUND COVER (TYPE II)	LOOSE AGGR FOR GROUND COVER (TYPE III)	112" X 18" PLANTER	96" X 16" PLANTER	60" X 14" PLANTER
MO	EA	EA	EA	EA	SY	EA	EA	CY	CY	CY	EA	EA	EA
12	190	150	6	1	460	4	2	9	15	6	3	12	6



- KEYED NOTES**
- PRESERVE AND PROTECT EXISTING INFORMATION KIOSK.
 - CONCRETE RAMP, REFER TO ENGINEERING PLANS.
 - INSTALL CONCRETE CURB CUT. (CURB CUT SHALL ALLOW WATER TO ENTER LANDSCAPE SWALE.) REFER TO ENGINEERING PLANS.
 - EXISTING ELECTRIC POLE, REFER TO ELECTRICAL PLANS.
 - LIGHT FIXTURE, REFER TO ELECTRICAL ENGINEERING PLANS.
 - REINFORCED CONCRETE SPEED TABLE, REFER TO ENGINEERING PLANS.
 - EXISTING FIRE HYDRANT TO PRESERVE AND PROTECT.
 - CONCRETE APRON, REFER TO CIVIL ENGINEERING PLANS.
 - NEW FLAGPOLE, REFER TO ENGINEERING PLANS.
 - PROVIDE AND INSTALL DOUBLE STEEL GATE, REFER TO DETAIL, REFER TO DETAIL, Z.AALC-507. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 21)
 - SCULPTURE FEATURE, CONTAINMENT, AND SIGNAGE; REFER TO SHEETS LC-501, LC-502 AND LC-503. CONTRACTOR SHALL REFERENCE STRUCTURAL FOOTING AND ANCHORING ON STRUCTURAL ENGINEERING PLANS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 12)
 - FRENCH DRAIN SYSTEM, REFER TO DETAIL AL/LC-510.
 - CONCRETE STOP FEATURE, REFER TO DETAIL AL/LC-510.
 - PROTOTYPICAL 96"X16" PLANTER PLANTING AT SCULPTURE FEATURE, REFER TO DETAIL AH/LC-509.
 - SCULPTURE FOOTING, REFER TO STRUCTURAL ENGINEERING PLANS.

- NOTES:**
- THE DESIGN PLACEMENT AND / OR PATTERN DESIGN FOR PLANT MATERIAL SHALL BE CONSISTENT TO PLANS. PLANT SPACING, ROWS, AND PROXIMITY TO EACH OTHER SHALL BE OBSERVED CLOSELY.
 - 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.



LANDSCAPE ARCHITECT'S SEAL

SCALE: N/A

HOR: DATE: APRIL 2021
VER: DESIGN BY: RC
DRAWN BY: RC
CHECKED BY: DAP
APPROVED BY: DAP
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

LANDSCAPE PLAN

CAPITAL IMPROVEMENT CITY OF EL PASO

218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066

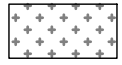



SHEET

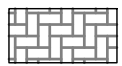
OF

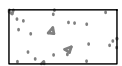
LP-102


MATERIAL LEGEND


 PROVIDE AND INSTALL LOOSE AGGREGATE TYPE I COLOR: DESERT TAN OR APPROVED EQUAL SIZE: 2" - 4" LAYER DEPTH: 4" DEPTH WITH FILTER FABRIC (TXDOT ITEM# 0192 6017) TXDOT ITEM# 1005-6001 TY I. BASE BID APPROX. QUANTITY: 2,282 SQ.FT.

 PROVIDE AND INSTALL LOOSE AGGREGATE TYPE II COLOR: DESERT TAN OR APPROVED EQUAL SIZE: 1-1/2" LAYER DEPTH: 3" DEPTH WITH FILTER FABRIC (TXDOT ITEM# 0192 6017) TXDOT ITEM# 1005-6002 TY II. BASE BID APPROX. QUANTITY: 1,245 SQ.FT.


 PROVIDE AND INSTALL PAVERS, SIZE 4" X 8", BASKET WAVE PATTERN, TUMBLED/ANTIQUED FINISH, COLOR SIERRA, OR APPROVED EQUAL. REFER TO DETAILS K,N/LC-504 CONTRACTOR TO INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 5)


 PROVIDE AND INSTALL INTEGRAL COLORED CONCRETE PAVING, COLOR: SLATE, AT 3000 PSI. REFER TO DETAIL L,P/LC-504. (SUBSIDIARY TO TX DOT ITEM# 0528 6001)


 GOLDEN BROWN BOULDERS (12) - 2'X2', 3'x3', & 4'x4' EVENLY MIXED, PARTIALLY BURIED. REFER TO DETAIL K/LC-504. (SUBSIDIARY TO TXDOT ITEM # 1002 6029)


 INSTALL SWALE FOR WATER HARVESTING, GRADUALLY GRADE TO FINAL DEPTH, 6" INCHES PER CONTOUR. REFER TO DETAIL AB/LC-507. (SUBSIDIARY TO TXDOT ITEM # 0110 6003 - EXCAVATION SPECIAL)


MATERIAL LEGEND


 PROVIDE AND INSTALL 32 GAL TRASH RECEPTACLE, SIDE OPENING, SURFACE MOUNT OR APPROVED EQUAL. REFER TO DETAIL R/LC-504. (SUBSIDIARY TO TXDOT ITEM # 1002 6025)


 PROVIDE AND INSTALL BIKE RACK, 5-LOOP RACK, SURFACE MOUNT OR APPROVED EQUAL. REFER TO DETAIL N/LC-504. (SUBSIDIARY TO TXDOT ITEM # ELP ELP25)


 PRESERVE AND PROTECT EXISTING DUMOR LETTER BIKE RACK (DWN/TWN), AND RELOCATE AS SPECIFIED ON PLANS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 3)


 PROVIDE AND INSTALL SECURITY BOLLARD, IN-GROUND MOUNT OR APPROVED EQUAL. REFER TO DETAIL T/LC-505 AND ELECTRICAL PLANS.


 PROVIDE AND INSTALL REMOVABLE BOLLARD, IN-GROUND MOUNT OR APPROVED EQUAL. REFER TO DETAIL S/LC-505. (SUBSIDIARY TO TXDOT ITEM # ELP ELP26)

 REMOVE EXISTING BENCH AND REPLACE WITH 6' BENCH, WITHOUT BACK AND ARMRESTS, SURFACE MOUNT OR APPROVED EQUAL. REFER TO DETAIL Q/LC-504. (SUBSIDIARY TO TXDOT ITEM # 1002 6026)


 PROVIDE AND INSTALL STEEL FENCE, REFER TO DETAILS U,V/ LC-505 AND Y/LC-506. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 11)

 PROVIDE AND INSTALL STEEL FENCE, REFER TO DETAILS V/LC-505, AND W,Y/LC-506. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 11)

 PROVIDE AND INSTALL PLANTERS UNLIMITED FIBERSTONE LOW BOWL PLANTER, SIZE: 112" X 18", REFER TO DETAILS AC, AF/LC-508 AND AG, AI/LC-509. (SUBSIDIARY TO TXDOT ITEM # 1002 6002)

 PROVIDE AND INSTALL PLANTERS UNLIMITED FIBERSTONE LOW BOWL PLANTER, SIZE: 96" X 16", REFER TO DETAILS AD, AF/LC-508 AND AG, AJ/LC-509. (SUBSIDIARY TO TXDOT ITEM # 1002 6003)

 PROVIDE AND INSTALL PLANTERS UNLIMITED FIBERSTONE LOW BOWL PLANTER, SIZE: 60" X 14", REFER TO DETAILS AE, AF/LC-508, AG, AK/LC-509. (SUBSIDIARY TO TXDOT ITEM # 1002 6004)

 EXISTING TREE TO REMAIN: PRESERVE AND PROTECT. REFER TO TREE PROTECTION DETAIL F/LP-505. (SUBSIDIARY TO TXDOT ITEM # 1004 6001)

KEYED NOTES

- 1 PRESERVE AND PROTECT EXISTING INFORMATION KIOSK.
- 2 CONCRETE RAMP, REFER TO ENGINEERING PLANS.
- 3 INSTALL CONCRETE CURB CUT. (CURB CUT SHALL ALLOW WATER TO ENTER LANDSCAPE SWALE.) REFER TO ENGINEERING PLANS.
- 4 EXISTING ELECTRIC POLE, REFER TO ELECTRICAL PLANS.
- 5 LIGHT FIXTURE, REFER TO ELECTRICAL ENGINEERING PLANS.
- 6 REINFORCED CONCRETE SPEED TABLE, REFER TO ENGINEERING PLANS.
- 7 EXISTING FIRE HYDRANT TO PRESERVE AND PROTECT.
- 8 CONCRETE APRON, REFER TO CIVIL ENGINEERING PLANS.
- 9 NEW FLAGPOLE, REFER TO ENGINEERING PLANS.
- 10 PROVIDE AND INSTALL DOUBLE STEEL GATE, REFER TO DETAIL, REFER TO DETAIL, Z,AA/LC-507. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 21)
- 11 SCULPTURE FEATURE, CONTAINMENT, AND SIGNAGE; REFER TO SHEETS LC-501, LC-502 AND LC-503. CONTRACTOR SHALL REFERENCE STRUCTURAL FOOTING AND ANCHORING ON STRUCTURAL ENGINEERING PLANS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 12)
- 12 FRENCH DRAIN SYSTEM, REFER TO DETAIL AL/LC-510.
- 13 CONCRETE STOP FEATURE, REFER TO DETAIL AL/LC-510.
- 13 PROTOTYPICAL 96"X16" PLANTER PLANTING AT SCULPTURE FEATURE, REFER TO DETAIL AH/LC-509.
- 14 SCULPTURE FOOTING, REFER TO STRUCTURAL ENGINEERING PLANS.

PLANT SCHEDULE (ALL ITEMS BELOW ARE SUBSIDIARY TO TXDOT ITEM #192)





SYMBOL BOTANICAL NAME COMMON NAME QUANTITY SIZE & COMMENTS HT x SPR
TREES SHALL BE INSTALLED AS PER DETAILS

	Lagerstroemia indica x fauriei 'Natchez'	NATCHEZ CRAPE MYRTLE	6	25 GAL. 8FT MIN	15'X15'
---	--	----------------------	---	-----------------	---------



SHRUBS, PERENNIALS & GRASS PLANTINGS, INSTALL AS PER DETAILS.

	Pennisetum alopecuroides 'Hameln'	DWARF FOUNTAIN GRASS	8	5 GAL.	3' x 3'
	Artemesia 'Powis Castle'	POWIS CASTLE	13	5 GAL.	1' X 2'
	Salvia clevelandii	CLEVELAND SAGE	15	5 GAL.	3' x 3'
	Gaura lindheimeri 'Geyser White'	GEYSER WHITE GAURA	23	5 GAL.	2' x 2'

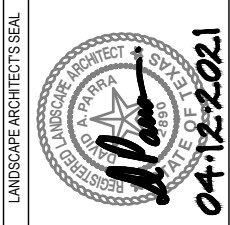
CACTI, AGAVE, SUCCULENTS AND DESERT PLANT MATERIAL; INSTALL AS PER DETAILS ON SHEET LP-501.

	Dasylirion longissimum	SOTOL	4	5 GAL.	3' X 3'
	Hesperaloe funifera	GIANT HESPERALOE	24	5 GAL.	3' X 4'
	Yucca recurvifolia	SOFT LEAF YUCCA	7	5 GAL.	3' X 3'
	Opuntia Cacanapa 'Elisiana'	SPINELESS PRICKLY PEAR	94	5 GAL.	3' X 3'

GROUND COVER, INSTALL AS PER DETAILS. LETTER & NUMBER WILL INDICATE PLANT ABBREVIATION AND QUANTITY.

	IP Delosperma cooperi	PURPLE ICE PLANT	163	1 GAL.	1' X 2'
	DN Delosperma Nubigenum 'Yellow'	YELLOW ICEPLANT	28	1 GAL.	1' X 2'

- NOTES:
1. THE DESIGN PLACEMENT AND / OR PATTERN DESIGN FOR PLANT MATERIAL SHALL BE CONSISTENT TO PLANS. PLANT SPACING, ROWS, AND PROXIMITY TO EACH OTHER SHALL BE OBSERVED CLOSELY.
 2. 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.



LANDSCAPE ARCHITECT'S SEAL
SCALE
HOR: VER: N/A
DATE: APRIL 2021
DESIGN BY: RC
DRAWN BY: RC
CHECKED BY: DAP
APPROVED BY: DAP
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS
LANDSCAPE PLAN (SCHEDULES AND NOTES)

CAPITAL IMPROVEMENT CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET

OF



B LANDSCAPE PLAN REFER TO LP-104 FOR SCHEDULES, NOTES, AND TXDOT BID ITEMS.

0 20 40 60 FEET

SCALE: 1" = 20'

- KEYED NOTES**
- PRESERVE AND PROTECT EXISTING INFORMATION KIOSK.
 - CONCRETE RAMP, REFER TO ENGINEERING PLANS.
 - INSTALL CONCRETE CURB CUT. (CURB CUT SHALL ALLOW WATER TO ENTER LANDSCAPE SWALE.) REFER TO ENGINEERING PLANS.
 - EXISTING ELECTRIC POLE, REFER TO ELECTRICAL PLANS.
 - LIGHT FIXTURE, REFER TO ELECTRICAL ENGINEERING PLANS.
 - REINFORCED CONCRETE SPEED TABLE, REFER TO ENGINEERING PLANS.
 - EXISTING FIRE HYDRANT TO PRESERVE AND PROTECT.
 - CONCRETE APRON, REFER TO CIVIL ENGINEERING PLANS.
 - NEW FLAGPOLE, REFER TO ENGINEERING PLANS.
 - PROVIDE AND INSTALL DOUBLE STEEL GATE, REFER TO DETAIL, REFER TO DETAIL, Z.A.A/LC-507. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 21)
 - SCULPTURE FEATURE, CONTAINMENT, AND SIGNAGE, REFER TO SHEETS LC-501, LC-502 AND LC-503. CONTRACTOR SHALL REFERENCE STRUCTURAL FOOTING AND ANCHORING ON STRUCTURAL ENGINEERING PLANS. (SUBSIDIARY TO TXDOT ITEM # ELP ELP 12)
 - FRENCH DRAIN SYSTEM, REFER TO DETAIL AL/LC-510.
 - CONCRETE STOP FEATURE, REFER TO DETAIL AL/LC-510.
 - PROTOTYPICAL 96"x16" PLANTER PLANTING AT SCULPTURE FEATURE, REFER TO DETAIL AH/LC-509.
 - SCULPTURE FOOTING, REFER TO STRUCTURAL ENGINEERING PLANS.

SUMMARY OF LANDSCAPE ITEMS												
ITEM CODE	ELP ELP5	ELP ELP11	ELP ELP21	ELP ELP26	1002 6029	1004 6001	0110 6003	0192 6002	0192 6004	0192 6074	0192 6017	
DESCRIPTION	PAVER WALKWAYS	DECORATIVE FENCING	DECORATIVE FENCING GATE	REMOVABLE BOLLARD	LANDSCAPE AMENITY (BOULDER)	TREE PROTECTION	EXCAVATION (SPECIAL)	PLANT MATERIAL (1-GAL)	PLANT MATERIAL (5-GAL)	PLANT MATERIAL (25-GAL)	VEGETATION BARRIER	
UNIT	SY	LF	LF	EA	EA	EA	CY	EA	EA	EA	SY	
PROJECT TOTAL	33	380	7	18	6	3	23	191	183	6	318	

SUMMARY OF LANDSCAPE ITEMS											
0193 6001	0193 6003	0193 6005	0193 6010	0528 6001	1005 6001	1005 6002	1005 6003	1002 6002	1002 6003	1002 6004	
PLANT MAINTENANCE	PLANT REPLACEMENT (1-GAL)	PLANT REPLACEMENT (5 GAL)	PLANT REPLACEMENT (30 GAL)	COLORLED TEXTURED CONC (4")	LOOSE AGGR FOR GROUNDCOVER (TYPE I)	LOOSE AGGR FOR GROUNDCOVER (TYPE II)	LOOSE AGGR FOR GROUNDCOVER (TYPE III)	112" X 18" PLANTER	96" X 18" PLANTER	60" X 14" PLANTER	
MO	EA	EA	EA	SY	CY	CY	CY	EA	EA	EA	
12	150	130	6	107	20	12	6	4	6	4	

- NOTES:**
- THE DESIGN PLACEMENT AND / OR PATTERN DESIGN FOR PLANT MATERIAL SHALL BE CONSISTENT TO PLANS. PLANT SPACING, ROWS, AND PROXIMITY TO EACH OTHER SHALL BE OBSERVED CLOSELY.
 - 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.

LANDSCAPE ARCHITECT'S SEAL

SCALE: N/A

HOR: DATE: APRIL 2021
VER: DESIGN BY: RC
DRAWN BY: RC
CHECKED BY: DAP
APPROVED BY: DAP
JOB No: 10100-041

04-12-2021

GREENWAY STUDIO

817 OLIVE AVE. | EL PASO, TX 79901
P 915.873.7385 / 915.873.7313
www.greenway-studio.com

PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

LANDSCAPE PLAN

CAPITAL IMPROVEMENT CITY OF EL PASO

218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066

CAPITAL IMPROVEMENT CITY OF EL PASO

LANDSCAPE PLAN

SHEET

OF

CRITICAL ANALYSIS

P.O.C. NUMBER: 01
 Water Source Information:

FLOW AVAILABLE
 Water Meter Size: 1"
 Flow Available: 37.50 gpm

PRESSURE AVAILABLE
 Static Pressure at POC: 70.00 psi
 Elevation Change: 5.00 ft
 Service Line Size: 1 1/2"
 Length of Service Line: 20.00 ft
 Pressure Available: 66.00 psi

DESIGN ANALYSIS
 Maximum Station Flow: 6.29 gpm
 Flow Available at POC: 37.50 gpm
 Residual Flow Available: 31.21 gpm

Critical Station: 6
 Design Pressure: 30.00 psi
 Friction Loss: 0.16 psi
 Fittings Loss: 0.01 psi
 Elevation Loss: 0.00 psi
 Loss through Valve: 6.55 psi
 Pressure Req. at Critical Station: 36.71 psi
 Loss for Fittings: 0.22 psi
 Loss for Main Line: 2.16 psi
 Loss for POC to Valve Elevation: 0.00 psi
 Loss for Backflow: 12.52 psi
 Loss for Water Meter: 0.33 psi
 Critical Station Pressure at POC: 51.94 psi
 Pressure Available: 66.00 psi
 Residual Pressure Available: 14.06 psi

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	HUNTER ICZ-101-40-LF PROVIDE AND INSTALL DRIP CONTROL ZONE KIT. 1" ICV GLOBE VALVE WITH 1" HY100 FILTER SYSTEM. PRESSURE REGULATION: 40PSI. FLOW RANGE: .5 GPM TO 15 GPM. 150 MESH STAINLESS STEEL SCREEN. WITH DC LATCHING SOLENOID, OR APPROVED EQUAL. REFER TO DETAIL B/LI-501.
	HUNTER PLD-AVR PLD-AVR ALLOWS FOR AIR TO ESCAPE A DRIP IRRIGATION SYSTEM TO PREVENT BLOCKAGE AND WATER HAMMERING. 1/2" MPT CONNECTION WITH 80 PSI MAXIMUM RATING.
	RAIN BIRD XB-PC SINGLE OUTLET EMITTER FOUR(4) SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS PER SYMBOL. FLOW RATES OF 0.5GPH=BLUE, 1.0GPH=BLACK, AND 2.0GPH=RED. COMES WITH A SELF-PIERCING BARB INLET X BARB OUTLET.
	RAIN BIRD XBT-6 SIX MULTI-OUTLET DRIP EMITTER/BUBBLER PROVIDE AND INSTALL SIX-OUTLET, PRESSURE COMPENSATING, DRIP EMITTER. FLOW RATES OF 0.5GPH=BLUE, 1.0GPH=BLACK, AND 2.0GPH=RED, AT EACH EMITTER OUTLET. COMES WITH 1/2" FPT INLET X BARB OUTLET, OR APPROVED EQUAL. REFER TO DETAILS E,G/LI-501.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	ISOLATION VALVE 1", 1-1/2", 2", AND 3" PLASTIC FULL BLOCK TRUE UNION BALL VALVE. SHUT OFF/ISOLATION VALVE TO ELIMINATE WATER HAMMER. INSTALL SAME SIZE AS MAINLINE.
	PRESSURE REDUCING VALVE PRESSURE LIMITED TO 40.99 PSI REFER TO DETAIL C/LI-501.
	WATTS LF909 3/4" PROVIDE AND INSTALL LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER, OR APPROVED EQUAL. REFER TO DETAIL A/LI-501.
	HUNTER XCH-1200-SS ELECTROMECHANICAL CONTROLLER, 12 STATIONS, OUTDOOR MODEL, BATTERY-POWERED. STAINLESS STEEL CABINET. WITH SOLAR PANEL.
	WATER METER 1"
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21
	IRRIGATION LATERAL LINE: TORO-BLUE STRIPE POLY HOSE
	IRRIGATION MAINLINE: PVC SCHEDULE 40
	PIPE SLEEVE: PVC SCHEDULE 40
	Valve Callout Valve Number Valve Flow Valve Size

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	1.25	31.7	41.67	2.95 in/h
2	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	1.26	11.72	21.7	0.92 in/h
3	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	0.36	11.01	20.43	0.92 in/h
4	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	2.75	33.06	44.17	2.72 in/h
5	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	2.61	12.97	24.18	0.92 in/h
6	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	6.29	36.72	51.94	2.88 in/h
7	HUNTER ICZ-101-40-LF	1"	DRIP EMITTER	1.78	32.17	42.73	2.73 in/h

BASE BID	SUMMARY OF IRRIGATION ITEMS		
	ITEM CODE	0170 6001	0193 6007
	DESCRIPTION	IRRIGATION SYSTEM	IRRIGATION SYSTEM OPER. AND MAINT.
	UNIT	LS	MO
	PROJECT TOTAL	1	12

- NOTES:
- THE 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 CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL COORDINATE AND KEEP COEP INFORMED OF ALL IRRIGATION LINE CONNECTIONS TAPPING INTO EXISTING COEP IRRIGATION SYSTEM. NO IRRIGATION WORK SHALL TAKE PLACE PRIOR TO THIS COORDINATION.
 - BORING UNDER STREETS, CONCRETE ROADWAYS AND SIDEWALKS IS SUBSIDIARY TO IRRIGATION SYSTEM, TXDOT ITEM # 0170 6001 (NOTE THAT DISTINCT CROSSING POINTS HAVE AN ADDITIONAL SLEEVE FOR FUTURE NEEDS.)
 - ALL PRODUCTS ON PLANS SHALL BE AS SPECIFIED OR APPROVED EQUAL, AND BE COMPLETELY COMPATIBLE WITH COEP SYSTEM. CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER AND LANDSCAPE ARCHITECT FOR APPROVAL.
 - EMITTER VALVES SHALL BE STRATEGICALLY PLACED WITHIN GROUNDCOVER AREAS, IN LINEAR MANNER AT THE BASE OF POTS, AND OR IN A LINEAR FASHION FOLLOWING THE EDGE OF THE STREET CURB. EMITTER VALVES SHALL NOT BE RANDOMLY DISPERSED IN THE LANDSCAPE OR INTERRUPTING THE STRATEGIC PLANTING PATTERN. CONTRACTOR TO COORDINATE CLOSELY WITH LANDSCAPE ARCHITECT.
 - CONTRACTOR TO PROVIDE AND INSTALL ALL ITEMS LISTED IN THE IRRIGATION SCHEDULE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.



SCALE: _____
 HOR: _____
 VER: N/A
 DATE: APRIL 2021
 DESIGN BY: R.C.
 DRAWN BY: R.C.
 CHECKED BY: D.A.P.
 APPROVED BY: D.A.P.
 JOB No: 1010-041



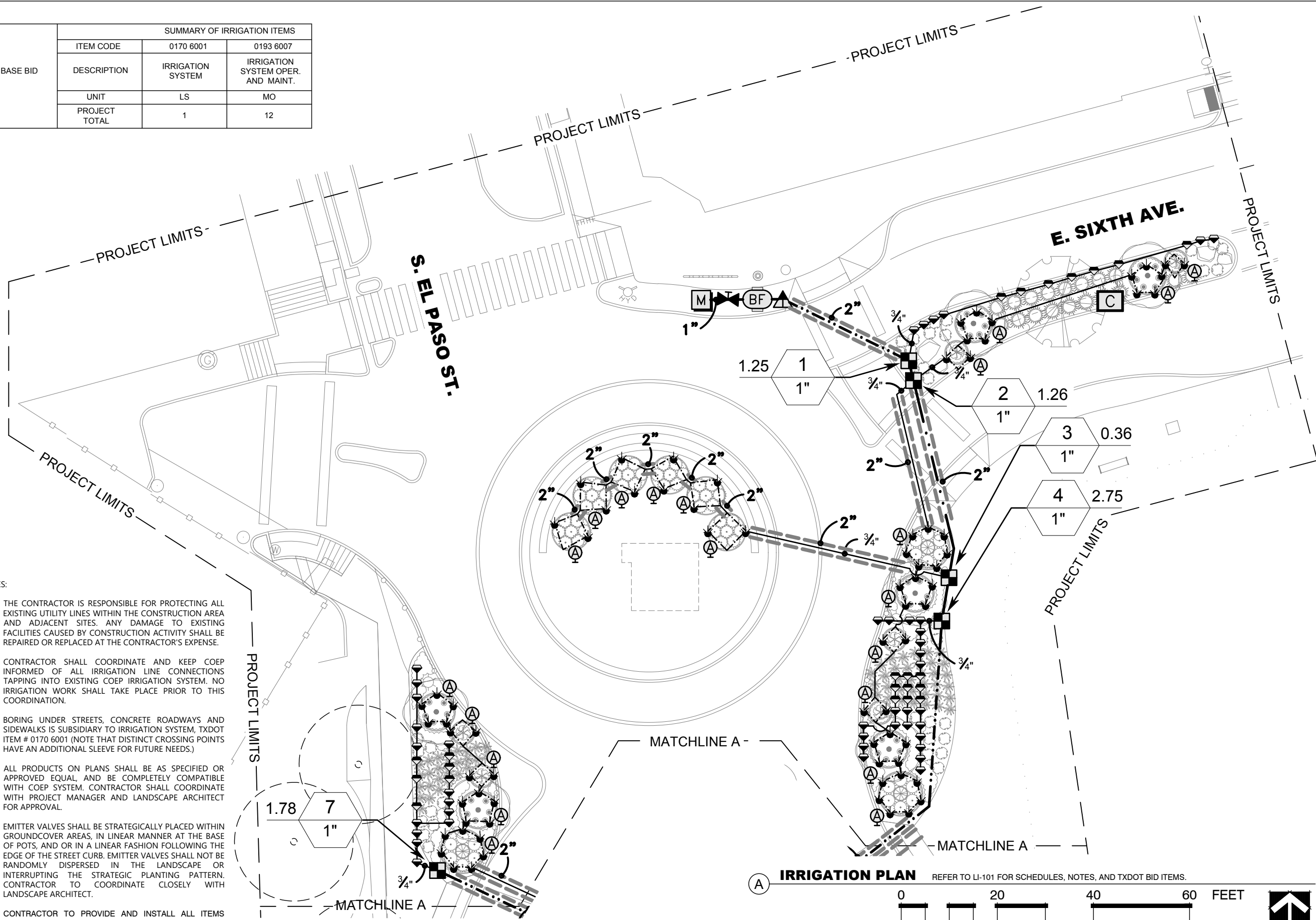
PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

IRRIGATION SCHEDULES AND NOTES



SHEET _____ OF _____

BASE BID	SUMMARY OF IRRIGATION ITEMS		
	ITEM CODE	0170 6001	0193 6007
	DESCRIPTION	IRRIGATION SYSTEM	IRRIGATION SYSTEM OPER. AND MAINT.
	UNIT	LS	MO
PROJECT TOTAL	1	12	



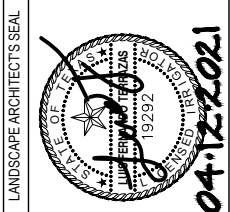
NOTES:

1. THE 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 CONTRACTOR'S EXPENSE.
2. CONTRACTOR SHALL COORDINATE AND KEEP COEP INFORMED OF ALL IRRIGATION LINE CONNECTIONS TAPPING INTO EXISTING COEP IRRIGATION SYSTEM. NO IRRIGATION WORK SHALL TAKE PLACE PRIOR TO THIS COORDINATION.
3. BORING UNDER STREETS, CONCRETE ROADWAYS AND SIDEWALKS IS SUBSIDIARY TO IRRIGATION SYSTEM, TXDOT ITEM # 0170 6001 (NOTE THAT DISTINCT CROSSING POINTS HAVE AN ADDITIONAL SLEEVE FOR FUTURE NEEDS.)
4. ALL PRODUCTS ON PLANS SHALL BE AS SPECIFIED OR APPROVED EQUAL, AND BE COMPLETELY COMPATIBLE WITH COEP SYSTEM. CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER AND LANDSCAPE ARCHITECT FOR APPROVAL.
5. EMITTER VALVES SHALL BE STRATEGICALLY PLACED WITHIN GROUNDCOVER AREAS, IN LINEAR MANNER AT THE BASE OF POTS, AND OR IN A LINEAR FASHION FOLLOWING THE EDGE OF THE STREET CURB. EMITTER VALVES SHALL NOT BE RANDOMLY DISPERSED IN THE LANDSCAPE OR INTERRUPTING THE STRATEGIC PLANTING PATTERN. CONTRACTOR TO COORDINATE CLOSELY WITH LANDSCAPE ARCHITECT.
6. CONTRACTOR TO PROVIDE AND INSTALL ALL ITEMS LISTED IN THE IRRIGATION SCHEDULE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.

(A) IRRIGATION PLAN REFER TO LI-101 FOR SCHEDULES, NOTES, AND TXDOT BID ITEMS.

0 20 40 60 FEET

SCALE: 1" = 20'



LANDSCAPE ARCHITECT'S SEAL

SCALE: N/A

HOR: DATE: APRIL 2021

VER: DESIGN BY: R.C.

DRAWN BY: R.C.

CHECKED BY: D.A.P.

APPROVED BY: D.A.P.

JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

IRRIGATION PLAN

CAPITAL IMPROVEMENT

CITY OF EL PASO

218 N. CAMPBELL STREET

EL PASO, TEXAS 79901

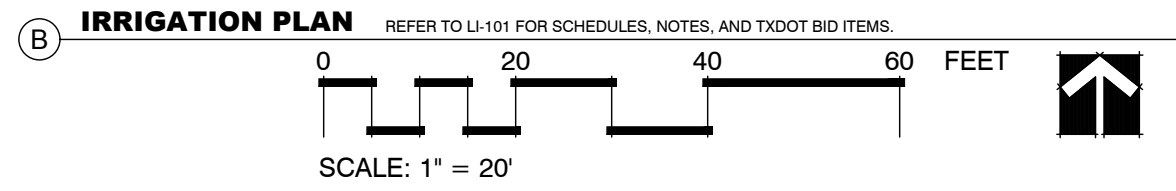
TELE 915.212.0065

FAX 915.212.0066



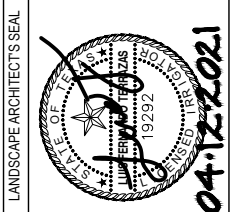
SHEET

OF



SUMMARY OF IRRIGATION ITEMS			
BASE BID	ITEM CODE	0170 6001	0193 6007
	DESCRIPTION	IRRIGATION SYSTEM	IRRIGATION SYSTEM OPER. AND MAINT.
	UNIT	LS	MO
	PROJECT TOTAL	1	12

- NOTES:
1. THE 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 CONTRACTOR'S EXPENSE.
 2. CONTRACTOR SHALL COORDINATE AND KEEP COEP INFORMED OF ALL IRRIGATION LINE CONNECTIONS TAPPING INTO EXISTING COEP IRRIGATION SYSTEM. NO IRRIGATION WORK SHALL TAKE PLACE PRIOR TO THIS COORDINATION.
 3. BORING UNDER STREETS, CONCRETE ROADWAYS AND SIDEWALKS IS SUBSIDIARY TO IRRIGATION SYSTEM, TXDOT ITEM # 0170 6001 (NOTE THAT DISTINCT CROSSING POINTS HAVE AN ADDITIONAL SLEEVE FOR FUTURE NEEDS.)
 4. ALL PRODUCTS ON PLANS SHALL BE AS SPECIFIED OR APPROVED EQUAL, AND BE COMPLETELY COMPATIBLE WITH COEP SYSTEM. CONTRACTOR SHALL COORDINATE WITH PROJECT MANAGER AND LANDSCAPE ARCHITECT FOR APPROVAL.



LANDSCAPE ARCHITECT'S SEAL

SCALE: _____

HOR: _____

VER: N/A

DATE: APRIL 2021

DESIGN BY: RC

DRAWN BY: RC

CHECKED BY: D.A.P.

APPROVED BY: D.A.P.

JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

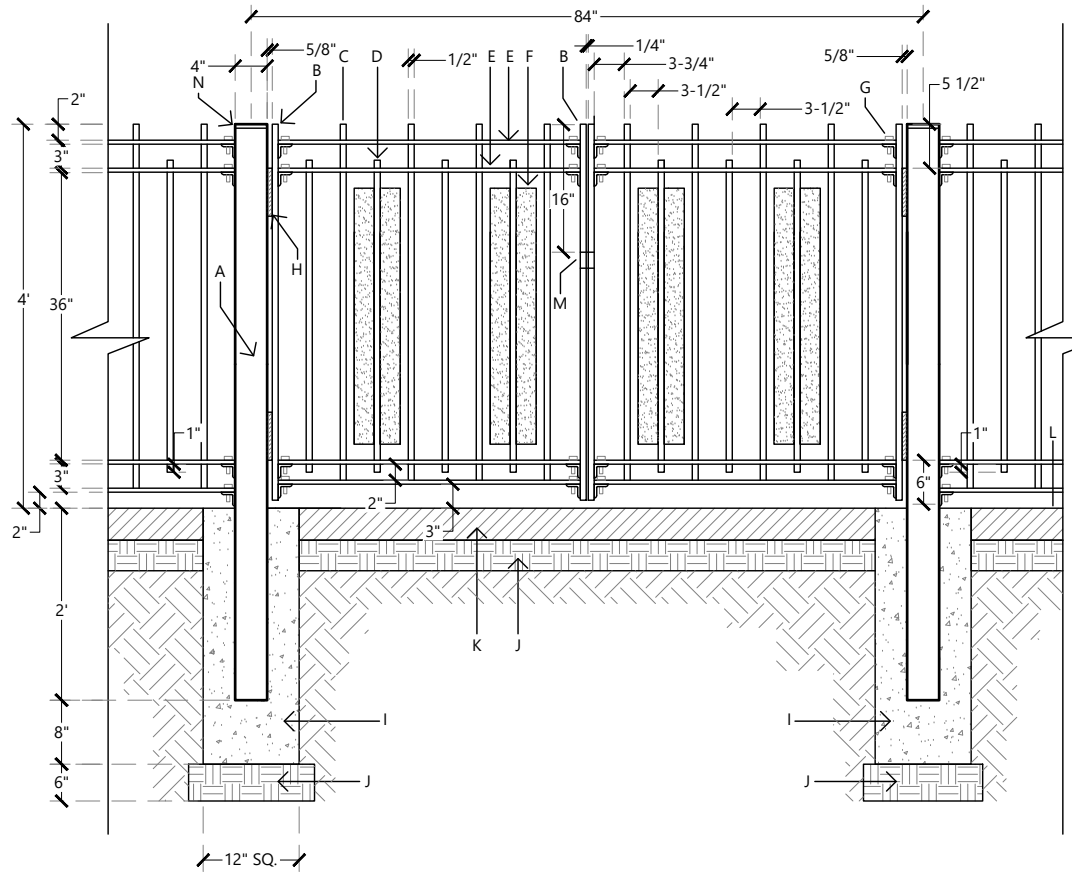
IRRIGATION PLAN

CAPITAL IMPROVEMENT
CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066

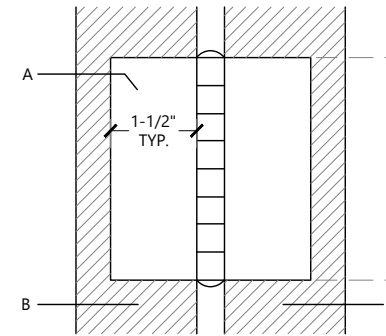


SHEET

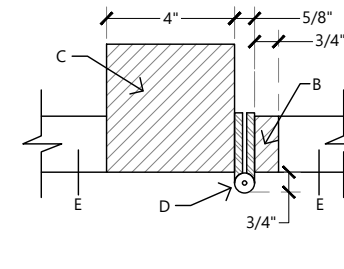
___ OF ___



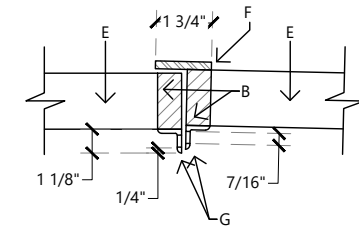
- A. 4" X 4" SQUARE POST 6' HEIGHT 3GA, POWDER COATED COLOR MATT BLACK.
- B. 1-3/4" X 3/4" X 3'-11/12" STEEL BAR, POWDER COATED COLOR MATT BLACK.
- C. 3/4" SQUARE STEEL BARS 45 1/2" HEIGHT, POWDER COATED COLOR MATT BLACK, FULLY WELDED TO TOP OR RAILS.
- D. 3/4" SQUARE STEEL BARS 39" HEIGHT, POWDER COATED COLOR MATT BLACK, FULLY WELDED TO TOP OR RAILS.
- E. 1/2" X 1-3/4" STEEL BAR, POWDER COATED COLOR MATT BLACK, TOP AND BOTTOM.
- F. 2-1/2" X 2' 8" X 1/4" STEEL PLATE, POWDER COATED COLOR MATT BLACK, FULL WELDED TO SQUARE STEEL BARS.
- G. ANGLE AND BOLT, REFER TO DETAIL V/LC-505.
- H. GATE HINGE, REFER TO DETAIL AA/LC-507.
- I. 12" X 12" X 24" 3,000 PSI CONCRETE FOOTING.
- J. DISTURBED SOIL OR COMPACTED FILL AT 95% MODIFIED PROCTOR DENSITY.
- K. 4" CONCRETE SIDEWALK, PAVERS OR ROCK MULCH AS SPECIFIED ON LANDSCAPE PLANS, REFER TO PLAN LP-102.
- L. FINISH GRADE.
- M. GATE HASP, REFER TO DETAIL AA/LC-507.
- N. 4" X 4" X 1/8" STEEL PLATE, POWDER COATED COLOR MATT BLACK, WELDED TO SQUARE POST, POWDER COATED COLOR MATT BLACK.



GATE HINGE ELEVATION (OPEN POSITION)



SECTION THROUGH GATE HINGE



SECTION AT GATE HASP (CLOSED)

- A. 6" X 5" STEEL FULL -MORTISE BUTT HINGE CUT TO 1-1/2".
- B. GATE FRAME POST (1-3/4" X 3/4").
- C. FENCE END POST (4" X 4").
- D. HINGE.
- E. 1/2" X 1-3/4" STEEL BAR, TOP AND BOTTOM.
- F. 3/16" X 1-3/4" X 2" GATE STOP WELDED TO GATE FRAME POST.
- G. 3/16" X 1-1/8" X 2" GATE HASP.

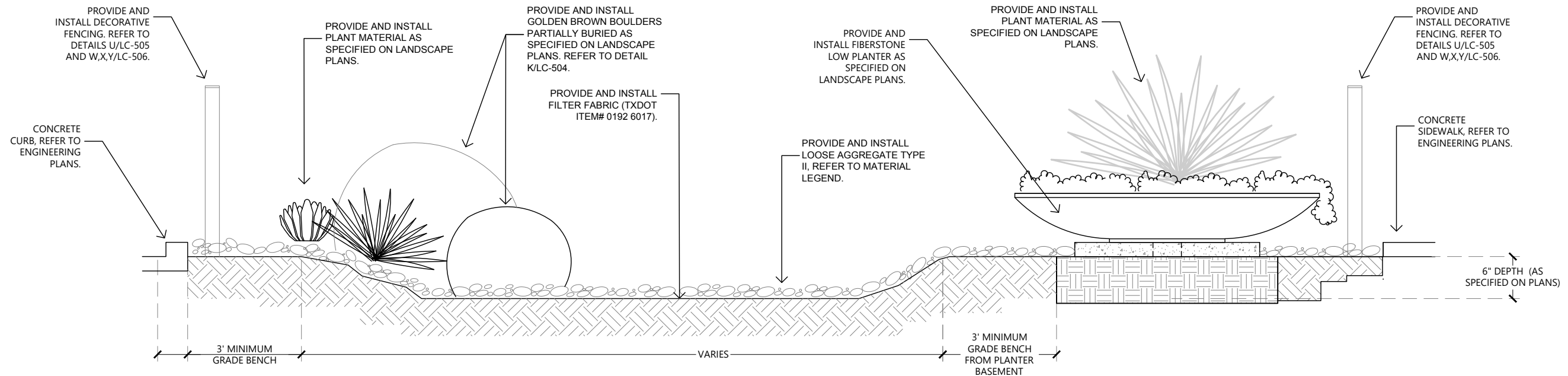
NOTES:
GRATE HINGES FOR DOUBLE GATE SHALL BE HEAVY WROUGHT STEEL 6" X 5", 5 KNUCKLES FAST PIN. HINGE SHALL BE CUT TO THE SIZE AS SHOWN AND FULLY WELDED ON 3 SIDES. HASP SHALL ALWAYS BE LOCATED ON PLANTED SIDE.

Z DOUBLE STEEL GATE

*ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # ELP ELP 21.

AA HINGE, HASP AND STOP DETAIL

*ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # ELP ELP 21.



AB SWALE FOR WATER HARVESTING AT VEHICLE TURN-AROUND ISLAND

*ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 0110 6003.

NOT TO SCALE



LANDSCAPE ARCHITECTS SEAL
SCALE: N/A
DATE: APRIL 2021
DESIGN BY: R.C.
DRAWN BY: R.C.
CHECKED BY: D.A.P.
APPROVED BY: D.A.P.
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

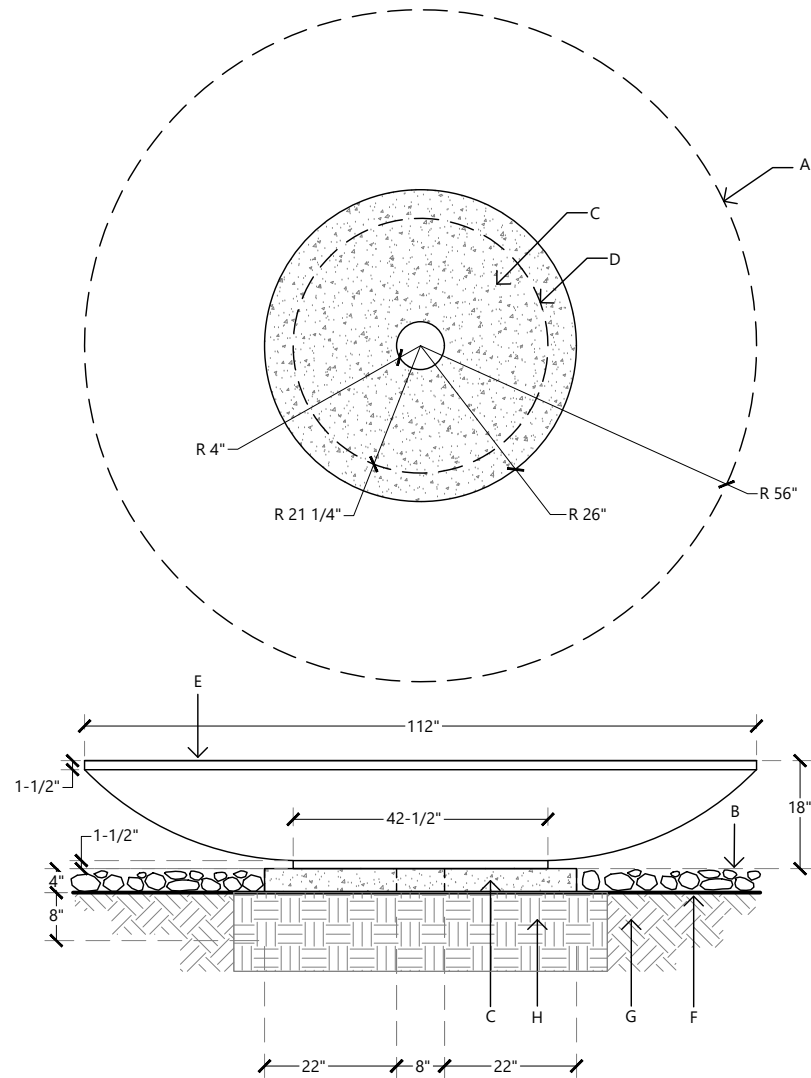
CONSTRUCTION DETAILS

CAPITAL IMPROVEMENT
CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET

OF



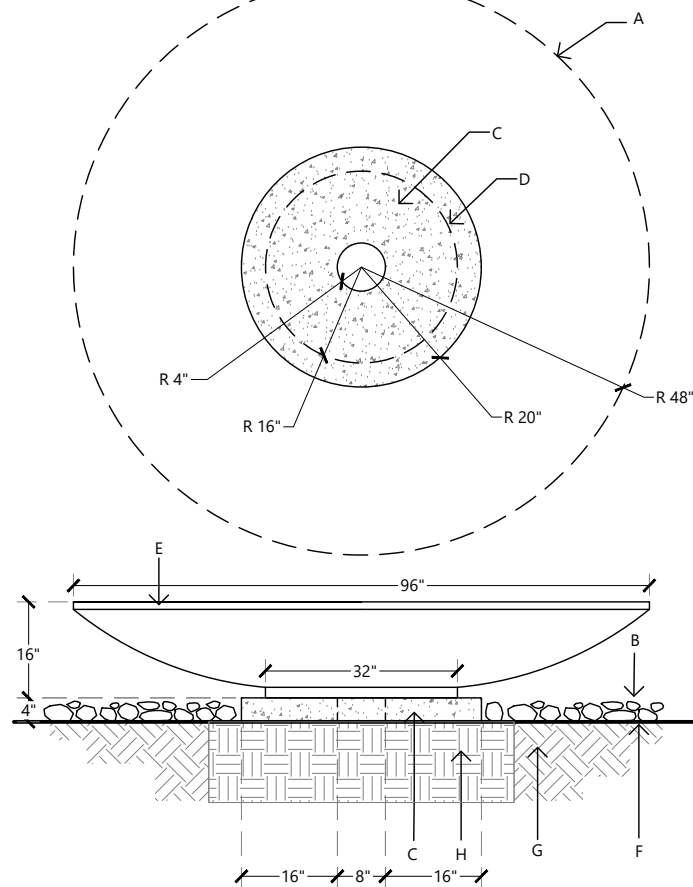
- A. EXTERIOR PLANTER EDGE.
- B. ROCK MULCH AS SPECIFIED ON LANDSCAPE PLANS.
- C. 3,000 PSI STANDARD CONCRETE BASE, 4" DEPTH, INSTALL FLAT LEVEL, WITH ZERO SLOPE.
- D. PLANTER BASE CONTOUR.
- E. 112" X 18" FIBERSTONE PLANTER.
- F. GCI 500 SERIES FILTER FABRIC OR APPROVED EQUAL.
- G. UNDISTURBED SOIL.
- H. COMPACTED FILL AT 95% MODIFIED PROCTOR DENSITY.

PROVIDE AND INSTALL LOW BOWL FIBERSTONE PLANTER, 112" DIA. X 18" HEIGHT, 3/16" THICKNESS AND 6" DIA. DRAIN HOLE, WEIGHT 2.5 LBS. PER SQUARE FOOT, WITH SAND AND AGGREGATE COATING COLOR: MOCHA OR APPROVED EQUAL. THIS ITEM SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

NOTE:
CONTRACTOR SHALL ENSURE ALL PLANTER ORDERS INCLUDE A MANUFACTURER-MADE PLANTER DRAIN HOLE AS SPECIFIED ON PLANS. CONTRACTOR-MADE PLANTER DRAIN HOLES WILL NOT BE ACCEPTED. CONTRACTOR SHALL COORDINATE ACCORDINGLY WITH THE MANUFACTURER.

AC 112" X 18" FIBERSTONE LOW BOWL PLANTER NOT TO SCALE

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6002.



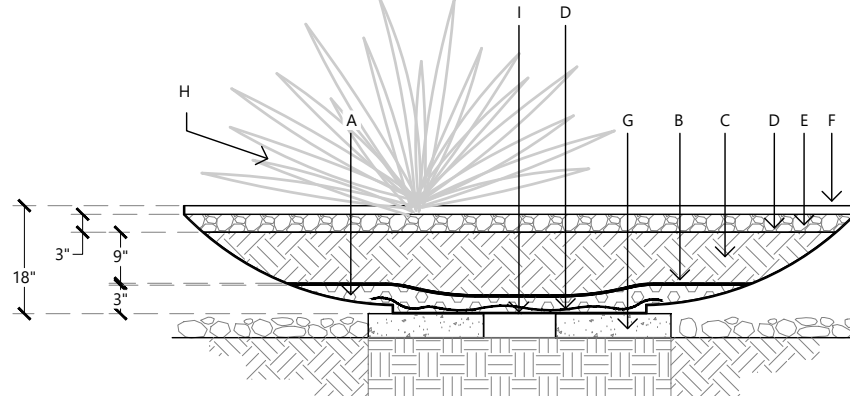
- A. EXTERIOR PLANTER EDGE.
- B. ROCK MULCH AS SPECIFIED ON LANDSCAPE PLANS.
- C. 3,000 PSI STANDARD CONCRETE BASE, 4" DEPTH, INSTALL FLAT LEVEL, WITH ZERO SLOPE.
- D. PLANTER BASE CONTOUR.
- E. 96" X 16" FIBERSTONE PLANTER.
- F. GCI 500 SERIES FILTER FABRIC OR APPROVED EQUAL.
- G. UNDISTURBED SOIL.
- H. COMPACTED FILL AT 95% MODIFIED PROCTOR DENSITY.

PROVIDE AND INSTALL LOW BOWL FIBERSTONE PLANTER, 96" DIA. X 16" HEIGH, 3/16" THICKNESS AND 6" DIA. DRAIN HOLE, WEIGHT 2.5 LBS. PER SQUARE FOOT, WITH SAND AND AGGREGATE COATING COLOR: MOCHA OR APPROVED EQUAL. THIS ITEM SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

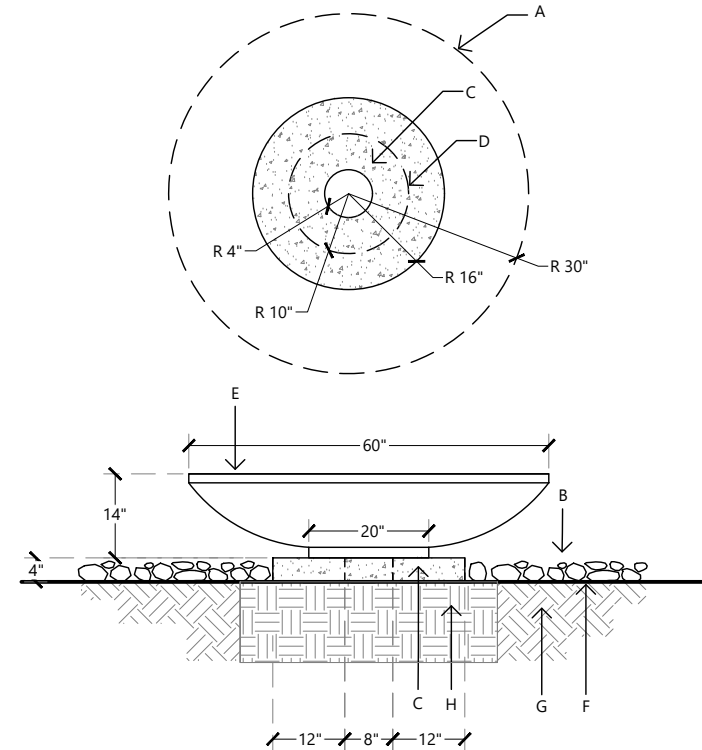
NOTE:
CONTRACTOR SHALL ENSURE ALL PLANTER ORDERS INCLUDE A MANUFACTURER-MADE PLANTER DRAIN HOLE AS SPECIFIED ON PLANS. CONTRACTOR-MADE PLANTER DRAIN HOLES WILL NOT BE ACCEPTED. CONTRACTOR SHALL COORDINATE ACCORDINGLY WITH THE MANUFACTURER.

AD 96" X 16" FIBERSTONE LOW BOWL PLANTER NOT TO SCALE

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6003.



AF SOIL MIX PLANTER DETAIL



- A. EXTERIOR PLANTER EDGE.
- B. ROCK MULCH AS SPECIFIED ON LANDSCAPE PLANS.
- C. 3,000 PSI STANDARD CONCRETE BASE, 4" DEPTH.
- D. PLANTER BASE CONTOUR.
- E. 60" X 14" FIBERSTONE PLANTER.
- F. GCI 500 SERIES FILTER FABRIC OR APPROVED EQUAL.
- G. UNDISTURBED SOIL.
- H. COMPACTED FILL AT 95% MODIFIED PROCTOR DENSITY.

PROVIDE AND INSTALL LOW BOWL FIBERSTONE PLANTER, 60" DIA. X 14" HEIGH, 3/16" THICKNESS AND 6" DIA. DRAIN HOLE, WEIGHT 2.5 LBS. PER SQUARE FOOT, WITH SAND AND AGGREGATE COATING COLOR: MOCHA OR APPROVED EQUAL. THIS ITEM SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.

NOTE:
CONTRACTOR SHALL ENSURE ALL PLANTER ORDERS INCLUDE A MANUFACTURER-MADE PLANTER DRAIN HOLE AS SPECIFIED ON PLANS. CONTRACTOR-MADE PLANTER DRAIN HOLES WILL NOT BE ACCEPTED. CONTRACTOR SHALL COORDINATE ACCORDINGLY WITH THE MANUFACTURER.

AE 60" X 14" FIBERSTONE LOW BOWL PLANTER NOT TO SCALE

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6004.

- A. 1/4" GRAVEL AGGREGATE FOR DRAINAGE. PROVIDE AND INSTALL DRAIN MEDIA.
- B. PERMEABLE ROOT BARRIER FABRIC, SEPARATION FABRIC OR APPROVED EQUAL.
- C. RED TOP-SOIL AND ORGANIC AMENDMENT MIX GROWTH MEDIA, OR APPROVED EQUAL.
- D. PROVIDE AND INSTALL GCI 500 SERIES FILTER FABRIC OR APPROVED EQUAL.
- E. PROVIDE AND INSTALL LOOSE AGGREGATE TYPE III, COLOR: RIVER ROCK OR APPROVED EQUAL, SIZE 1-1/2", LAYER DEPTH: 3" DEPTH. TXDOT ITEM #1005-602 TY III.
- F. PROVIDE AND INSTALL PLANTERS UNLIMITED LOW BOWL, MODEL: ROSSETA FIBERSTONE, SIZE: 112" WIDTH X 18" HEIGHT.
- G. 3,000 PSI STANDARD CONCRETE BASE, 4" DEPTH, INSTALL FLAT LEVEL, WITH ZERO SLOPE.
- H. PLANT MATERIAL AS SPECIFIED ON LANDSCAPE PLANS.
- I. 6-INCH PLANTER DRAINAGE HOLE. CONTRACTOR SHALL COORDINATE MANUFACTURER-MADE PLANTER DRAIN HOLE AS SPECIFIED ON PLANS.

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6002, 1002 6003 AND 1002 6004.



LANDSCAPE ARCHITECT'S SEAL
SCALE: N/A
DATE: APRIL 2021
DESIGN BY: R.C.
DRAWN BY: R.C.
CHECKED BY: D.A.P.
APPROVED BY: D.A.P.
JOB No: 1010-041



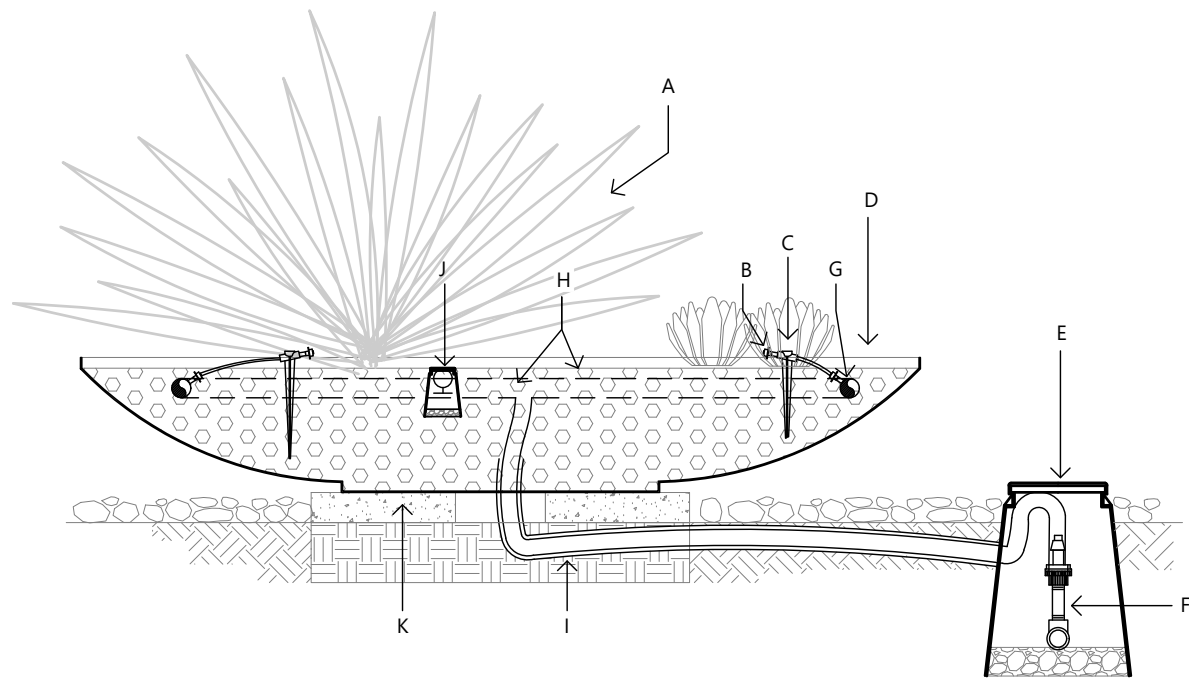
PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

CONSTRUCTION DETAILS

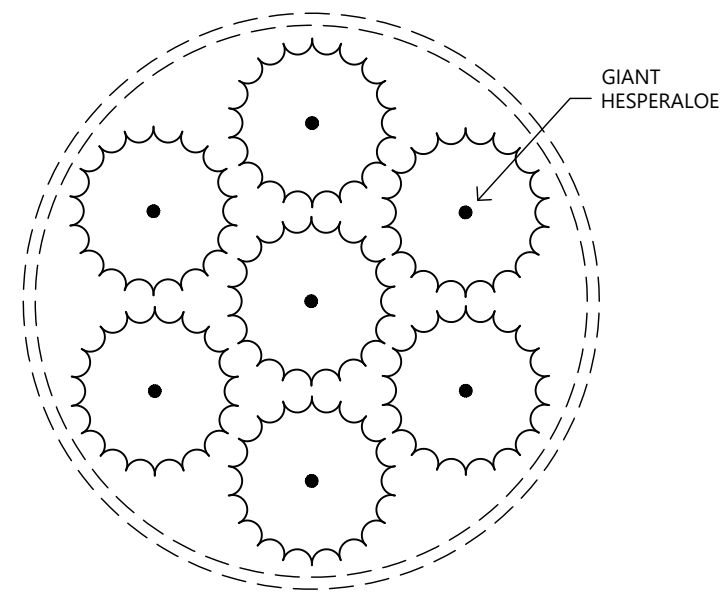
CAPITAL IMPROVEMENT CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET



- A. PLANT MATERIAL AS SPECIFIED ON PROTOTYPICAL PLANTING DETAIL.
- B. IRRIGATION BUG CAP DIFFUSER.
- C. 1/4-INCH TUBING: POLYETHYLENE DISTRIBUTION TUBING.
- D. LOW BOWL FIBERSTONE PLANTER, SIZE AS SPECIFIED ON LANDSCAPE PLANS.
- E. 10" IRRIGATION EMITTER BOX.
- F. PVC BARBED CONNECTION FOR 3/4" POLY WITH STAINLESS STEEL CLAMP.
- G. TWO EMITTERS PER PLANT.
- H. POLY PIPE RING. RING SHOULD GO SIX INCHES FROM THE EDGE OF THE PLANTER.
- I. 2" PVC SCHEDULE 40 FLEX SLEEVE
- J. ALL PLANTERS SHOULD HAVE ONE AIR RELIEF VALVE. AIR RELIEF VALVE SHALL BE PLACED INSIDE A SIX INCH ROUND BOX WITH TWO INCHES OF GRAVEL AT THE BOTTOM.
- K. 4,000 PSI STANDARD CONCRETE BASE, 4" DEPTH, INSTALL FLAT LEVEL, WITH ZERO SLOPE.



AG PLANTER IRRIGATION DETAIL

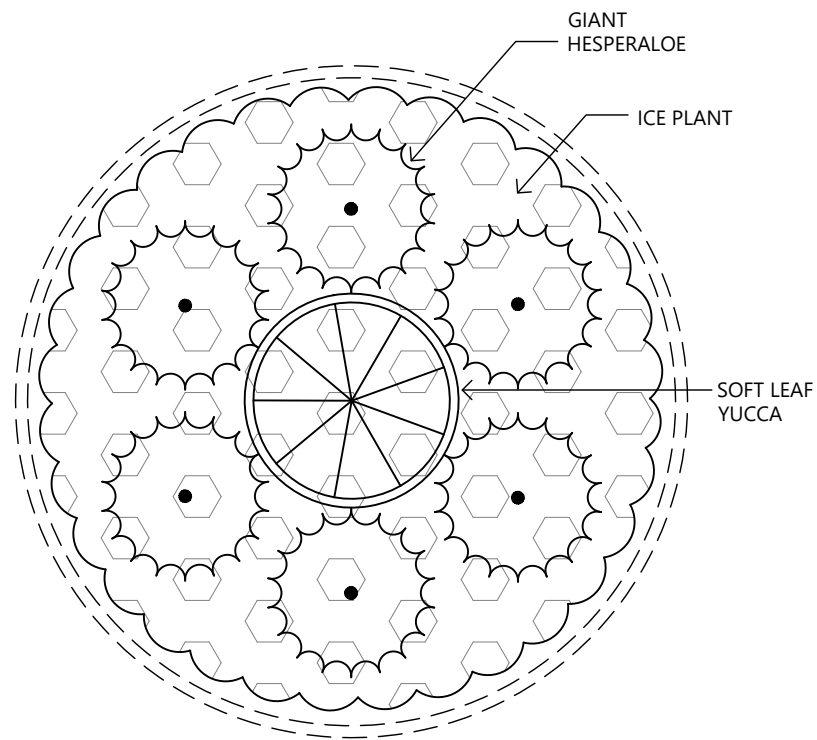
*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6002, 1002 6003 AND 1002 6004.

NOT TO SCALE

AH 96" X 16" PLANTER PLANTING AT SCULPTURE FEATURE

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6003.

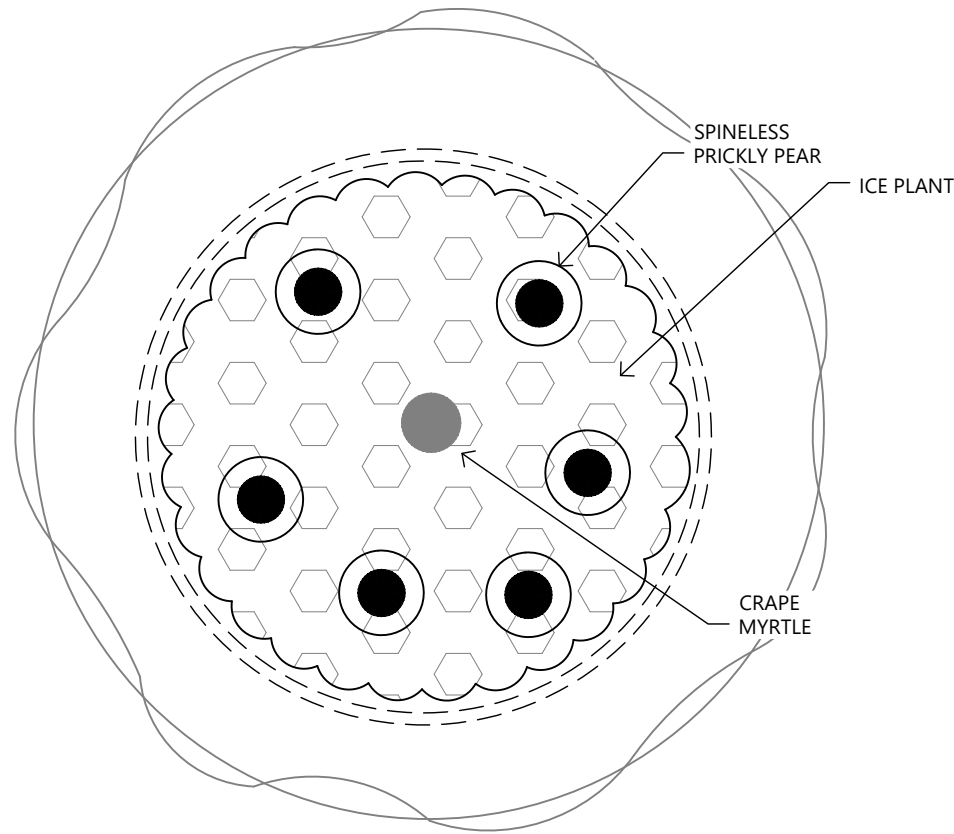
NOT TO SCALE



AI PROTOTYPICAL 112" X 18" PLANTER PLANTING

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6002.

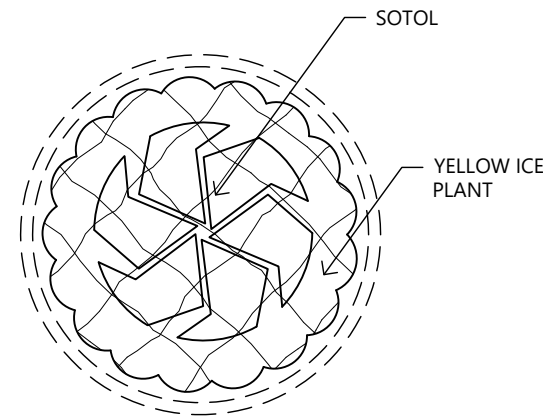
NOT TO SCALE



AJ PROTOTYPICAL 96" X 16" PLANTER PLANTING

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6003.

NOT TO SCALE



AK PROTOTYPICAL 60" X 14" PLANTER PLANTING

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL. ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1002 6004.

NOT TO SCALE



LANDSCAPE ARCHITECT'S SEAL
SCALE
HOR. VER. N/A
DATE: APRIL 2021
DESIGN BY: R.C.
DRAWN BY: R.C.
CHECKED BY: D.A.P.
APPROVED BY: D.A.P.
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

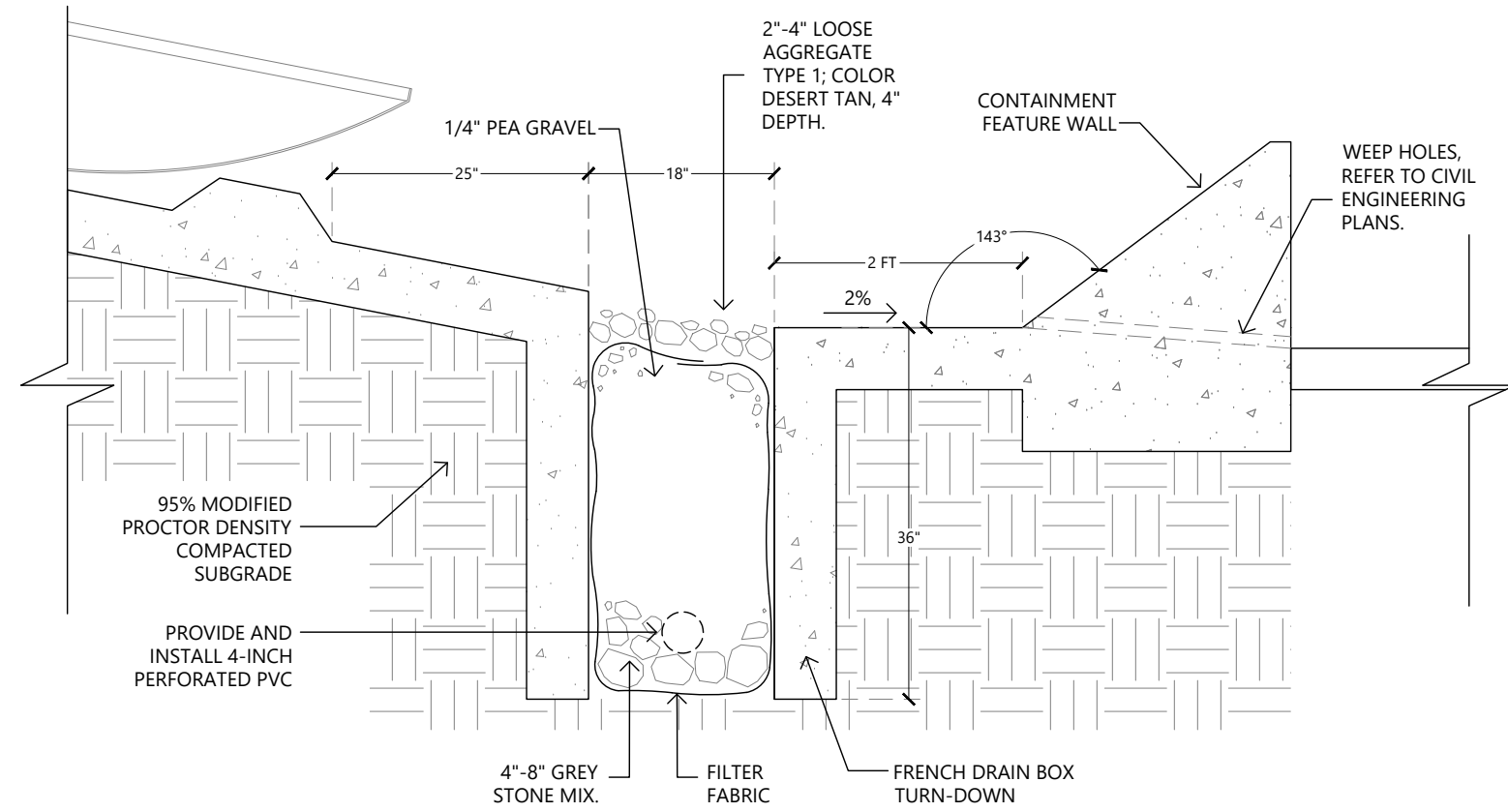
CONSTRUCTION DETAILS

CAPITAL IMPROVEMENT
CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET

OF

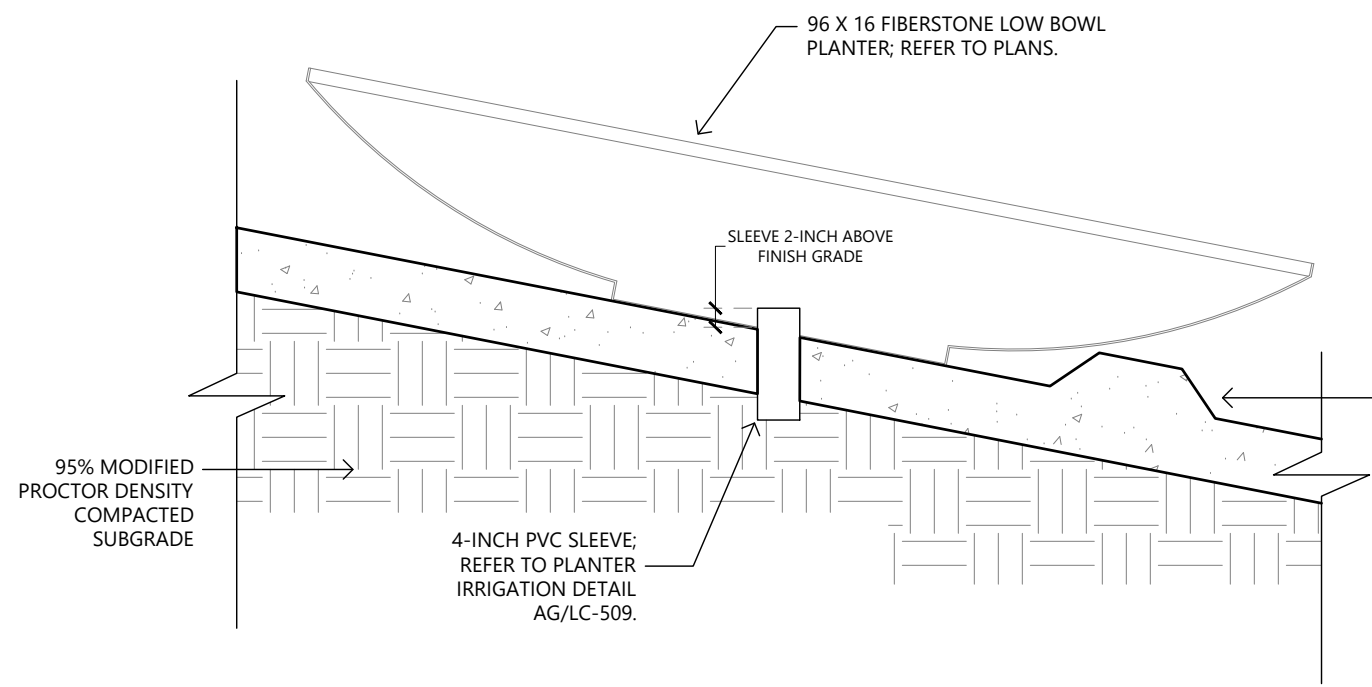


AL FRENCH DRAIN SYSTEM

*ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # ELP ELP 12.

NOT TO SCALE

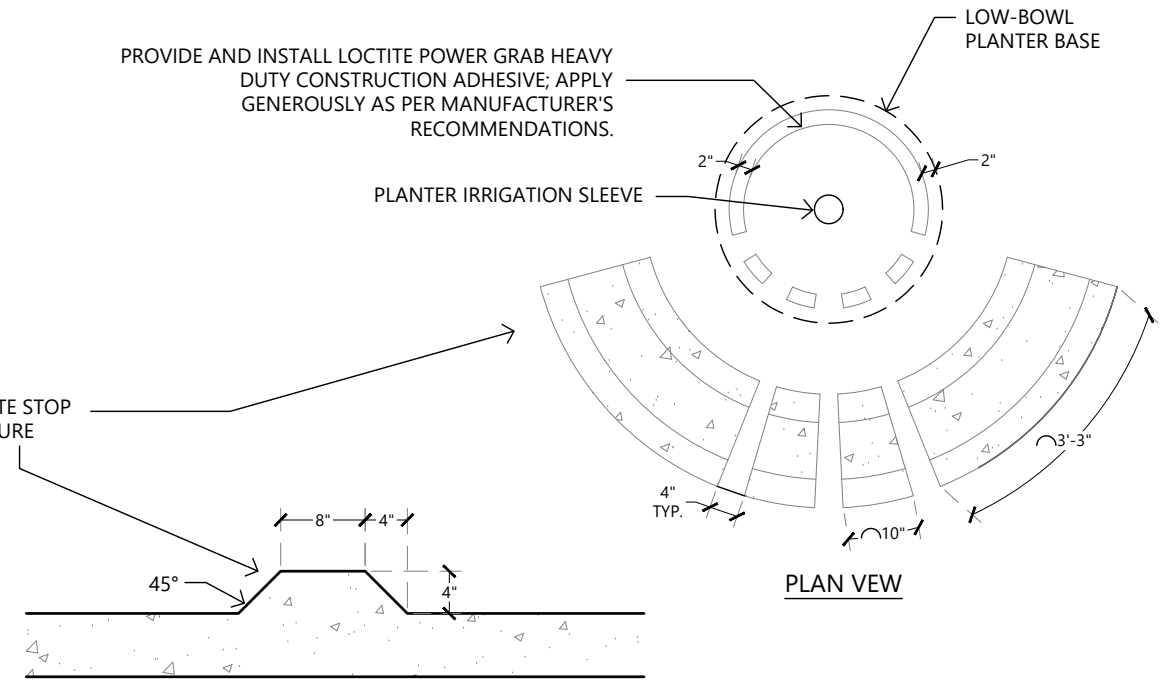
NOTE:
ALL IRRIGATION PREPARATION WORK AND LINE PRESSURIZING SHALL BE CONFIRMED AND COORDINATED WITH LANDSCAPE ARCHITECT AND LICENSED IRRIGATOR PRIOR TO TRENCH FILL AND COMPACTION.



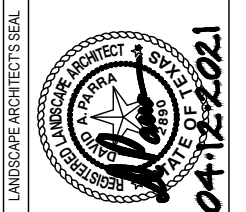
AM CONCRETE STOP FEATURE AND PLANTER IRRIGATION SLEEVE

*ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # ELP ELP 12.

NOT TO SCALE



CONCRETE STOP FEATURE SHALL BE INSTALLED WITH A 18"R AND ALIGN WITH THE LOW BOWL BASE, CREATING A "WHEEL-STOP" - TYPE FUNCTION.



LANDSCAPE ARCHITECT'S SEAL
SCALE
HOR. VER. N/A
DATE: APRIL 2021
DESIGN BY: R.C.
DRAWN BY: R.C.
CHECKED BY: D.A.P.
APPROVED BY: D.A.P.
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

CONSTRUCTION DETAILS

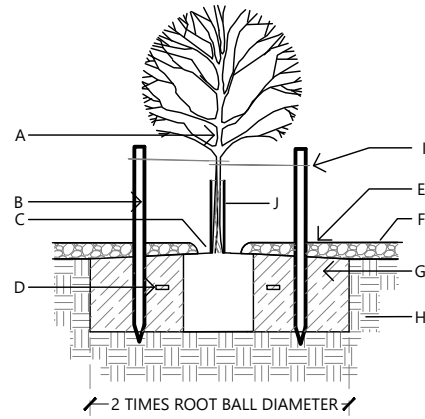
CAPITAL IMPROVEMENT
CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET

GENERAL NOTES:

1. TREES PLANTED IN ROCKY, CALICHE AND CLAY SOILS TO HAVE PIT EXCAVATED 5 TIMES THE SIZE OF THE ROOTBALL.
2. TREES PLANTED IN ROCKY, CALICHE AND CLAY SOILS TO HAVE 1/3 TO 1/2 TOP SOIL BLENDED WITH CLAY SOIL AND USED AS BACKFILL.
3. TREES PLANTED IN ROCKY SOIL ARE TO HAVE ALL ROCKY MATERIAL LARGER THAN 1" IN SIZE REMOVED.



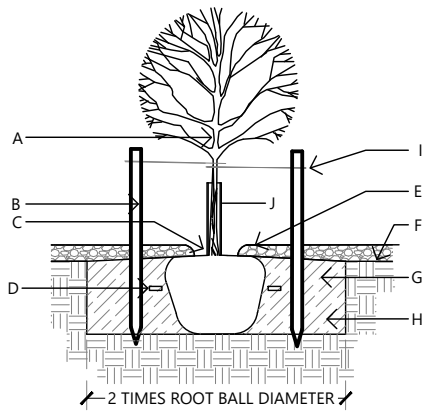
- A. TREE
- B. STAKING
- C. 4" SPACE BETWEEN MULCH AND TREE
- D. 7 GRAM PLANT TABLETS (15 GRAM=12 TABLETS OR 4 TABLETS PER 1/2" OR CALIPER.)
- E. 3" DEPTH OF MULCH
- F. FINISH SOIL GRADE
- G. BACKFILL WITH EXISTING NATIVE SOIL
- H. UNDISTURBED SOIL
- I. TREEGUARD
- J. TIES TO STAKES TO HAVE RUBBER HOSE TO PROTECT TREE TRUNK FROM DAMAGE BY WIRE. WIRE TIES TO BE LOOSE (1" TO 2" PLAY ON PLAN). WIRE TIES TO BE SET ON MAIN TRUNK.

A TREE PLANTING, CONTAINER

NOT TO SCALE

GENERAL NOTES:

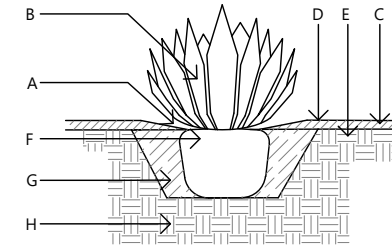
1. TREES PLANTED IN ROCKY, CALICHE AND CLAY SOILS TO HAVE PIT EXCAVATED 5 TIMES THE SIZE OF THE ROOTBALL.
2. TREES PLANTED IN ROCKY, CALICHE AND CLAY SOILS TO HAVE 1/3 TO 1/2 TOP SOIL BLENDED WITH CLAY SOIL AND USED AS BACKFILL.
3. TREES PLANTED IN ROCKY SOIL ARE TO HAVE ALL ROCKY MATERIAL LARGER THAN 1" IN SIZE REMOVED.



- A. TREE
- B. STAKING
- C. 4" SPACE BETWEEN MULCH AND TREE
- D. 7 GRAM PLANT TABLETS (15 GRAM=12 TABLETS OR 4 TABLETS PER 1/2" OR CALIPER.)
- E. 3" DEPTH OF MULCH
- F. FINISH SOIL GRADE
- G. BACKFILL WITH EXISTING NATIVE SOIL
- H. UNDISTURBED SOIL
- I. TREEGUARD
- J. TIES TO STAKES TO HAVE RUBBER HOSE TO PROTECT TREE TRUNK FROM DAMAGE BY WIRE. WIRE TIES TO BE LOOSE (1" TO 2" PLAY ON PLAN). WIRE TIES TO BE SET ON MAIN TRUNK.

B TREE PLANTING, BALLED & BURLAP

NOT TO SCALE



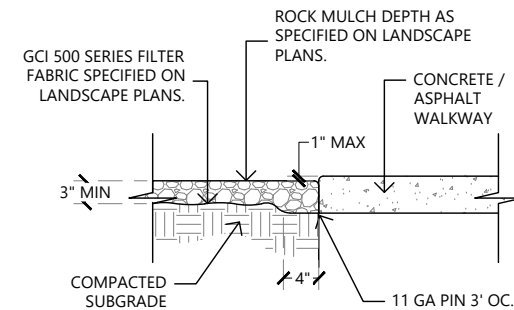
- A. TAPER AND PULL BACK MULCH AT LEAST 3" FROM BASE OF AGAVE SPECIMEN.
- B. AGAVE SPECIES, REFER TO PLANS.
- C. MULCH AS PER PLANS.
- D. FINISH GRADE.
- E. SUBGRADE.
- F. ROOT BALL.
- G. BACKFILL WITH NATIVE SOIL.
- H. UNDISTURBED SOIL.

GENERAL NOTES:

1. THIS DETAIL IS SPECIFIC TO CACTI, AGAVE, SUCCULENTS, AND MOST DESERT PLANT MATERIAL.
2. HAND WATER AGAVE SPECIMENS IMMEDIATELY AFTER INSTALLATION TO DAMPEN SURROUNDING SOIL.

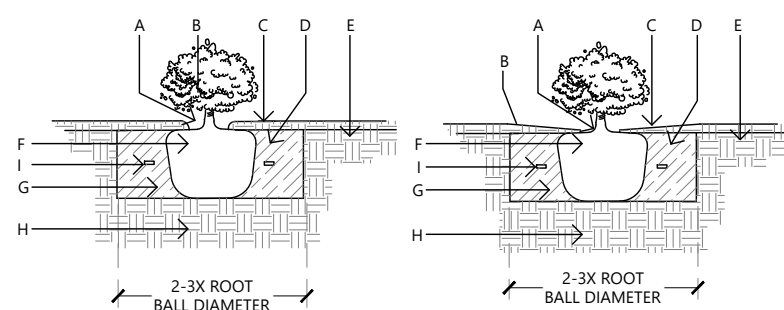
C AGAVE SPECIMEN PLANTING

NOT TO SCALE



D ROCK MULCH ABUTTING HARDSCAPE

NOT TO SCALE

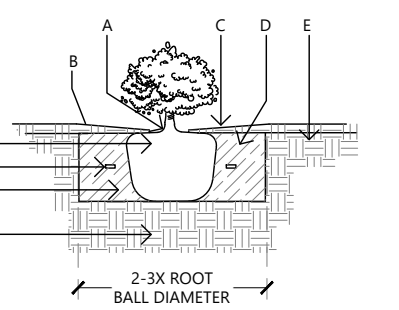


- A. PULL BACK MULCH AT LEAST 2" FROM BASE OF SHRUB.
- B. SHRUB OR VINE, AS PER PLAN.
- C. MULCH AS PER THE PLANS.
- D. FINISH GRADE.
- E. SUBGRADE.
- F. ROOT BALL (SET CROWN FLUSH WITH FINISHED GRADE.
- G. BACKFILL WITH NATIVE SOIL.
- H. UNDISTURBED NATIVE SOIL.
- I. 7 GRAM PLANT TABLETS (1 GAL= 3, 5 GAL=6, 10-15 GAL= 9)

E SHRUB PLANTING

NOT TO SCALE

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL

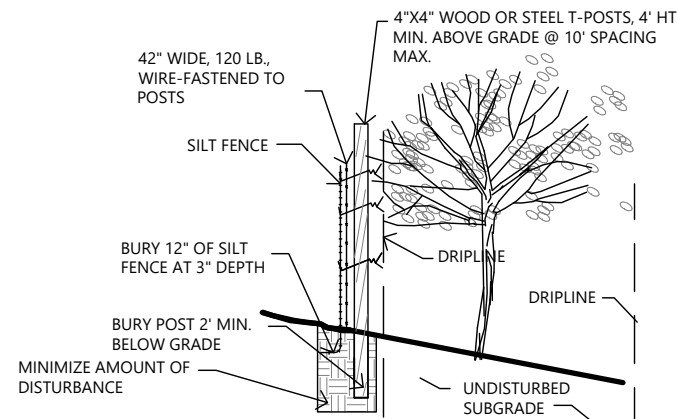


- A. PULL BACK MULCH AT LEAST 2" FROM BASE OF SHRUB.
- B. TAPER ROCK MULCH DEPTH FROM 3 FT. AWAY FROM BASE OF SHRUB.
- C. TAPERING MULCH, 3" MAX. DEPTH
- D. FINISH GRADE.
- E. SUBGRADE.
- F. ROOT BALL
- G. BACKFILL WITH NATIVE SOIL.
- H. UNDISTURBED SOIL.
- I. 7 GRAM PLANT TABLETS (1 GAL= 3, 5 GAL=6, 10-15 GAL= 9)

F SHRUB PLANTING AT

NOT TO SCALE

4"-6" ROCK MULCH *ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL



NOTES:

1. USE SILT FENCE FOR PROTECTION OF ALL EXISTING TREES AND PALMS INDICATED TO REMAIN WITHIN THE LIMITS OF WORK. INSTALL A MINIMUM OF 6' RADIUS FROM TRUNK.
2. SILT FENCE SHALL BE REMOVED AT COMMENCEMENT OF FINAL GRADING AFTER FINAL ACCEPTANCE OF ALL GRADING OR IRRIGATION WORK.

G TREE PRESERVATION DETAIL

*ALL MATERIALS, LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED FOR THIS WORK ARE SUBSIDIARY TO ITEM # 1004 6001.

NOTES:

1. THE CRITICAL ROOT ZONE OF A TREE IS THE ZONE IN WHICH THE MAJORITY OF A TREE'S ROOTS LIE. NINETY-FIVE PERCENT OF THE ROOTS OF MOST TREES WILL BE FOUND IN THE UPPER 30-36" OF SOIL. OF THOSE, THE MAJORITY OF THE ROOTS THAT SUPPLY THE NUTRIENTS AND WATER TO THE TREE ARE FOUND IN THE UPPERMOST LAYER, JUST BELOW THE SOIL SURFACE. THE TOTAL AMOUNT OF A TREE'S ROOTS ARE GENERALLY PROPORTIONAL TO THE VOLUME OF THE TREES CANOPY. THEREFORE, IF THE ROOTS ONLY PENETRATE A THIN LAYER OF SOIL, THEN THE ROOTS MUST SPREAD FAR FROM THE TREE, BEYOND THE LIMITS OF THE CANOPY. ROOTS ARE VITAL TO THE FUNCTIONING OF ANY TREE. THEY PROVIDE STRUCTURAL SUPPORT AS WELL AS THE MAJOR MECHANISM FOR NUTRIENT AND WATER UPTAKE FOR THE USE BY THE REST OF THE TREE. DESTROYING A SECTION OF A TREE'S ROOTS WILL ULTIMATELY RESULT IN A PROPORTIONAL LOSS OF THE TREE'S CANOPY. THE CRITICAL ROOT ZONE OF A TREE TO BE SAVED SHALL BE THE MINIMUM AREA PROTECTED WITH TREE PROTECTION FENCING.
2. TREE PROTECTION SHALL BE A SUPER SILT FENCE (OR APPROVED EQUAL) MOUNTED ON VERTICAL PIPES DRIVEN 2'-0" INTO THE GROUND AND AT CORNERS AND 10' O.C.. THE PERIMETER OF THIS ZONE SHALL BE PRESERVED AND PROTECTED.
3. A NO COMPACTION ZONE SHALL BE CLEARED AND ESTABLISHED AND TREE PROTECTION FENCING SHALL BE ERRECTED AT THE CRITICAL ROOT ZONE OR BEYOND PRIOR TO START OF ANY CLEARING, GRADING OR OTHER CONSTRUCTION ACTIVITY WITH HEAVY EQUIPMENT. TREE PROTECTION SHALL NOT BE REMOVED UNTIL COMPLETION OF ALL CONSTRUCTION ACTIVITY.
4. ALL TREES TO REMAIN SHALL BE MARKED ON ALL FOUR SIDES BY PLACING AND MAINTAINING FLORESCENT COLOR SURVEYORS TAPE TO LOWEST BRANCHES ON ALL FOUR SIDES AT A MINIMUM.
5. FOR QUESTIONS RELATED TO TREE PROTECTION OR FOR FIELD INSPECTION OF TREE PROTECTION, CONTACT PROJECT LANDSCAPE ARCHITECT.

Not to scale



LANDSCAPE ARCHITECT'S SEAL
SCALE: N/A
HOR: VER:
DATE: APRIL 2021
DESIGN BY: RC
DRAWN BY: RC
CHECKED BY: D.A.P.
APPROVED BY: D.A.P.
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

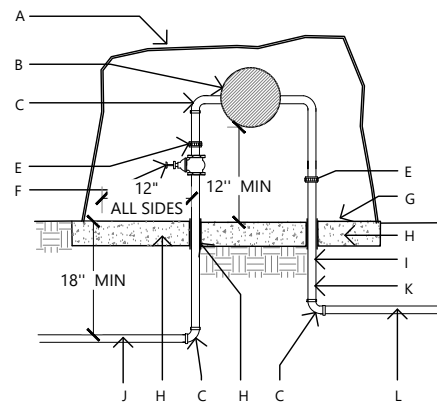
LANDSCAPE DETAILS

CAPITAL IMPROVEMENT CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET

OF

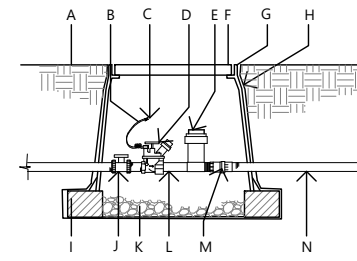


- NOTE: REDUCED PRESSURE BACKFLOW PREVENTER MUST BE INSTALLED A MIN. 12" ABOVE HIGHEST IRRIGATION OUTLET.
- A. PR2 POLY ROK - GRANITE - INSULATED - 12W X 43L X 27H (UNHEATED) CLASS II - HOT BOX ENCLOSURE (SEE IRRIGATION LEGEND). INSULATE (R-25 MIN.) FROM FREEZING MUST COMPLY WITH ASSE 1060. INSTALL WITH HEAT DEVICE AS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ELECTRICAL FOR AN ELECTRICAL POWER SOURCE.
 - B. REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER (SEE IRRIGATION LEGEND).
 - C. TYPE K HARD DRAWN COPPER FITTINGS.
 - D. NOT USED.
 - E. UNION, 4" ABOVE GRADE, MIN.
 - F. BRASS BALL VALVE.
 - G. FINISH GRADE.
 - H. 4000 PSI CONCRETE PAD WITH MINIMUM 2'x3' DIMENSIONS, 4" DEPTH & SLOPED 1% TO DRAIN.
 - I. PIPE SHALL BE SLEEVED THROUGH CONCRETE PAD WITH SCH 40 PVC.
 - J. SERVICE LINE.
 - K. TYPE K COPPER PIPING.
 - L. MAIN LINE.

A REDUCED PRESSURE BACKFLOW PREVENTER

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

NOT TO SCALE

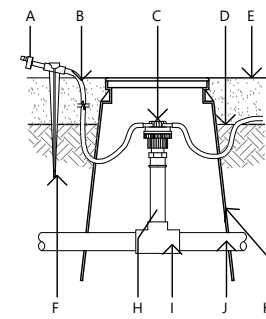


- A. FINISH GRADE.
- B. 24" WIRE LOOP.
- C. WATERPROOF SPLICE.
- D. AUTOMATIC VALVE INCLUDED IN CONTROL ZONE KIT WITH DC LATCHING SOLENOID AND WATERPROOF TAG INDICATING VALVE NUMBER. SEE IRRIGATION DRAWINGS. BASKET FILTER STRAINER INCLUDED IN CONTROL ZONE KIT SHALL BE INSTALLED TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT. SEE IRRIGATION LEGEND.
- E. LOCKING VALVE BOX COVER, COLOR TO MATCH MULCH.
- F. CARSON PRODUCTS INC (JUMBO) 1220 (ABS) VALVE BOX WITH EXTENSIONS AS NECESSARY.
- G. PROVIDE DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX, TAPE TO ALL INLET & OUTLET PIPE.
- H. 8" X 8" X 16" CMU SOLID CONCRETE BLOCK.
- I. BALL VALVE, INCLUDED IN CONTROL ZONE KIT, SEE IRRIGATION LEGEND.
- J. 4" LAYER OF 3/8" PEA GRAVEL.
- K. SCH 80 NIPPLE.
- L. INLINE PRESSURE REGULATOR INCLUDED IN CONTROL ZONE KIT, SEE IRRIGATION LEGEND.
- M. LATERAL LINE.
- N.

B DRIP VALVE/BASKET FILTER KIT

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

NOT TO SCALE



- A. BUG CAP DIFFUSER.
- B. 1/4-INCH TUBING: POLYETHYLENE DISTRIBUTION TUBING.
- C. 6-OUTLET PRESSURE COMPENSATING EMITTER, 0.5 GPH, 2.0 GPH PRESSURE REGULATED EMITTERS SHALL BE USED AS INDICATED ON IRRIGATION DRAWING.
- D. FINISH GRADE.
- E. TOP OF MULCH.
- F. 1/4-INCH TUBING STAKE
- G. 3-INCH MIN. DEPTH OF 3/8" PEA GRAVEL.
- H. RISER.
- I. TEE OR ELL TO PVC OR POLYETHYLENE PIPE SEE PLAN.
- J. PVC OR POLYETHYLENE LATERAL PIPE MUST USE PURPLE PURPLE PIPE, SEE PLAN.
- K. CARSON 9" ROUND SUBTERRANEAN EMITTER BOX.

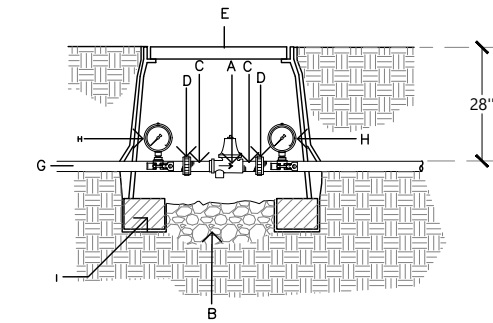
C MAINLINE PRESSURE REDUCING VALVE

- CONSTRUCTION NOTES:
- ENSURE SINGLE OUTLET EMITTER IS ON TOP AND ON THE HIGH SIDE OF THE PLANT'S ROOTBALL.
 - LOCATE SINGLE OUTLET EMITTERS AROUND TREES AS PER PLAN DIAGRAM ABOVE.
 - LOCATE SINGLE OUTLET EMITTERS FOR 1 GALLON & 5 GALLON, 2 PER GALLON ON OPPOSITE SIDES OF ROOTBALL & 1 PER 1 GALLON.
 - FOR GREEN ROOF INSTALLATION, DELETE CONCRETE BLOCKS AND PEA GRAVEL AND CUT BOX AT BASE TO FIT FLUSH WITH TOP OF MULCH.

E 6-OUTLET EMITTER

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

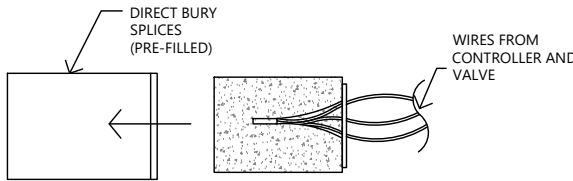
NOT TO SCALE



D WIRE SPLICING DETAIL

- A. PRESSURE REGULATOR, SEE IRRIGATION LEGEND.
- B. 2 CU. FT. 1" DIAMETER WASHED PEA GRAVEL.
- C. SCH. 80 PVC NIPPLE
- D. FLANGE (3" AND ABOVE) AND UNION (BELOW 3" PIPE SIZE)
- E. CARSON PRODUCTS INC. 1419 OR 1730 PB-18 BODY (ABS) VALVE BOX WITH 1419 OR 1730 BOLT DOWN COVER (ABS) TO MATCH FINISHED MATERIAL AND (1) 8 INCH EXTENSION.
- F. DEWITT PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX INSTALLATION. TAPE TO ALL INLET AND OUTLET PIPE AND VALVE BOX WITH HEAVY DUTY PLASTIC 3M TAPE.

- G. MAINLINE
 - H. HORIZONTAL HYGIENIC PRESSURE GAUGE
NOTE: PROVIDE 1 PRESSURE GAUGE ON MAIN LINE UPSTREAM AND DOWNSTREAM OF PRESSURE REDUCING VALVE. SET IT IN HORIZONTAL TO BE READABLE.
 - I. 8"X8"X16" SOLID CMU BLOCK @ EACH CORNER.
- NOTE: PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK.

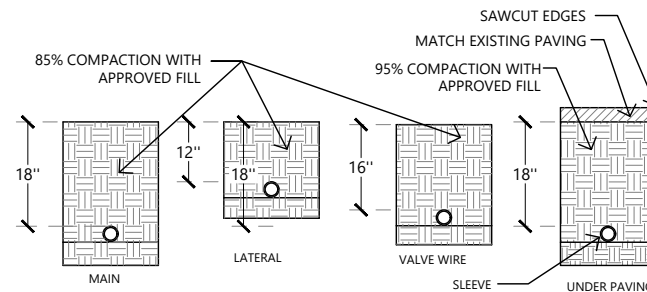


- NOTE:
- THREE STEP OPERATION DBR/Y-6 CONNECTORS ONLY.
 - WIRE NOT PROVIDED WITH KIT.
 - TWIST WIRES TOGETHER PRIOR INSERTION.

F TRENCHING DETAIL

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

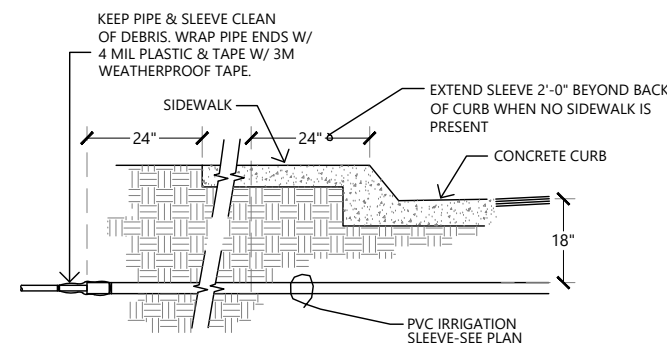
NOT TO SCALE



H IRRIGATION MASTER VALVE

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

NOT TO SCALE



I SLEEVING

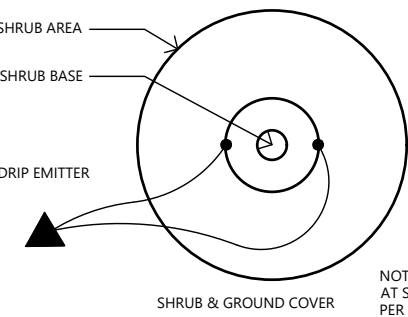
*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

NOT TO SCALE

G DRIP EMITTER DETAIL

*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

NOT TO SCALE

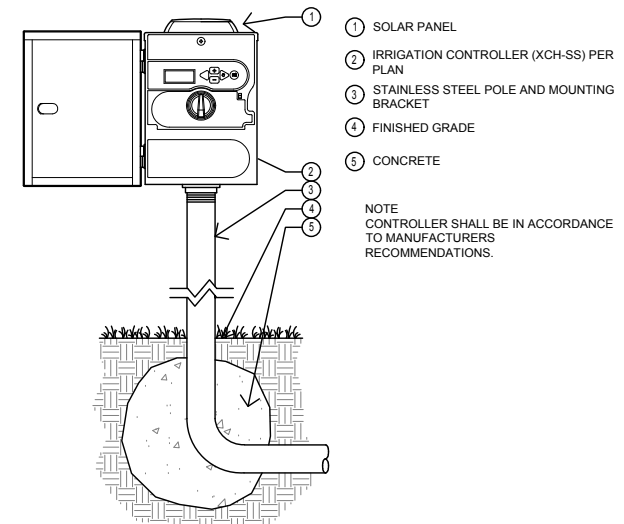


NOTE: PLACE DRIP TUBE AT SHRUB BASE; TWO PER SHRUB.

J IRRIGATION CONTROLLER WITH SOLAR PANEL

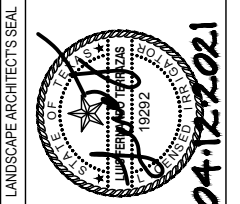
*ALL PRODUCTS ON DETAIL SHALL BE AS SPECIFIED OR APPROVED EQUAL.

NOT TO SCALE



J IRRIGATION CONTROLLER WITH SOLAR PANEL

NTS



LANDSCAPE ARCHITECTS SEAL
SCALE
HOR: N/A
VER: N/A
DATE: APRIL 2021
DESIGN BY: R.C.
DRAWN BY: R.C.
CHECKED BY: D.A.P.
APPROVED BY: D.A.P.
JOB No: 1010-041



PASO DEL NORTE (PDN) PORT OF ENTRY (POE) ROUNDABOUT IMPROVEMENTS

IRRIGATION DETAILS

CAPITAL IMPROVEMENT
CITY OF EL PASO
218 N. CAMPBELL STREET
EL PASO, TEXAS 79901
TELE 915.212.0065
FAX 915.212.0066



SHEET

OF