

MEMORANDUM

COMMUNITY DEVELOPMENT DEPARTMENT



August 31, 2026

TO: Mayor and City Council
CC: Kendall Nagy, Chief of Staff
Dave Miles, Community Development Director
FROM: Caleb Hood, Deputy Director
RE: Linder Road Overpass Form Liner

In 2021 the City set aside \$2.5M towards advancing the Linder Road Overpass project. This was “seed money” to get the project off-the-ground, primarily intended to pay for design. In 2023, while the project was being designed, City Staff discussed with Council potential aesthetic elements, including landscaping in the center median and buffer areas as well as a custom concrete form liner (stamp). At that time, ACHD’s consultant gave the City an estimate of \$84,000 as the City “cost share” portion to customize the concrete in three specific areas of the bridge structure with a river/rock pattern and stain (see table below).

Summary of Custom Formliner & Stain Costs (See Exhibit F for Breakdown)

Location	Total Area	Tooling Cost	Prod. SF Cost	Custom SF Cost	Std SF Cost	Net SF Cost	Custom Formliner	Stain Cost	Overall Cost Diff.
Interior Barriers	826 SF	\$4,800	\$19.17	\$24.98	\$6.70	\$18.28	\$15,100	\$2,100	\$17,200
Exterior Barriers	1888 SF	\$4,800	\$19.17	\$21.71	\$6.70	\$15.01	\$28,300	\$4,100	\$32,400
MSE Wall 4' Band	755 SF	\$8,000	\$40.00	\$50.60	\$6.70	\$43.90	\$33,100	\$1,300	\$34,400
Totals	3469 SF	\$17,600	---	---	---	---	\$76,500	\$7,500	\$84,000

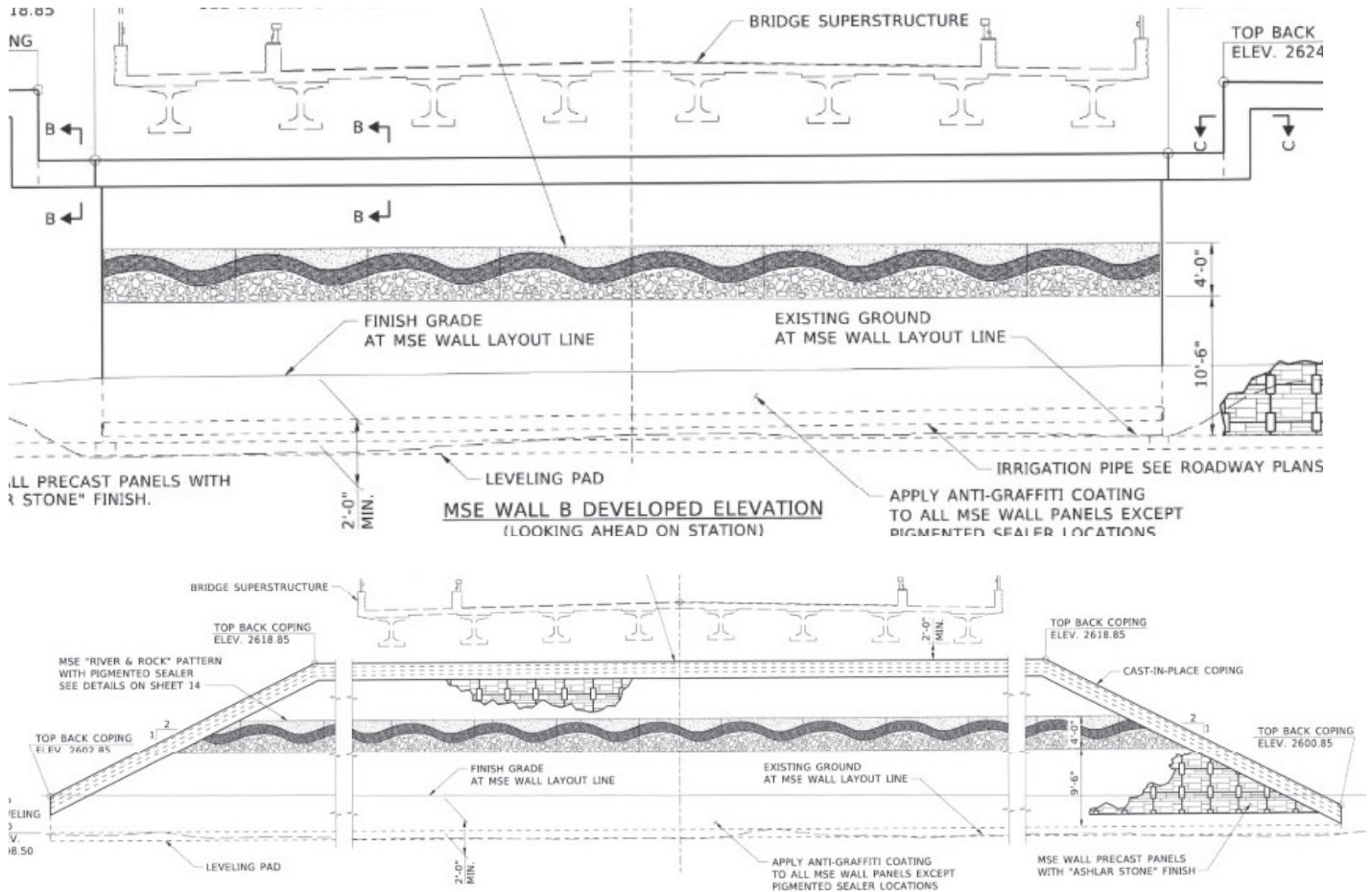
In 2023 Council didn’t officially take action, vote on paying for this enhancement, but the general consensus was to move forward and enter into a cost share agreement with ACHD for these non-transportation elements (landscaping and form liner).

Earlier this summer the construction contract for Phase 2 of the project was awarded by ACHD. City Staff obtained new cost estimates for the custom form liner based off the bid price of the contractor; as most/all things, costs have increased since 2023. The City’s options and associated cost for the River & Rock textured concrete surface are detailed below for the three distinct areas: abutments, bridge and roadway.

Abutments

- Bridge Abutment A
 - River & Rock = 63.2 SY at \$258.00 = \$16,305.60
- Bridge Abutment B
 - River & Rock = 35.8 SY at \$258.00 = \$9,236.40

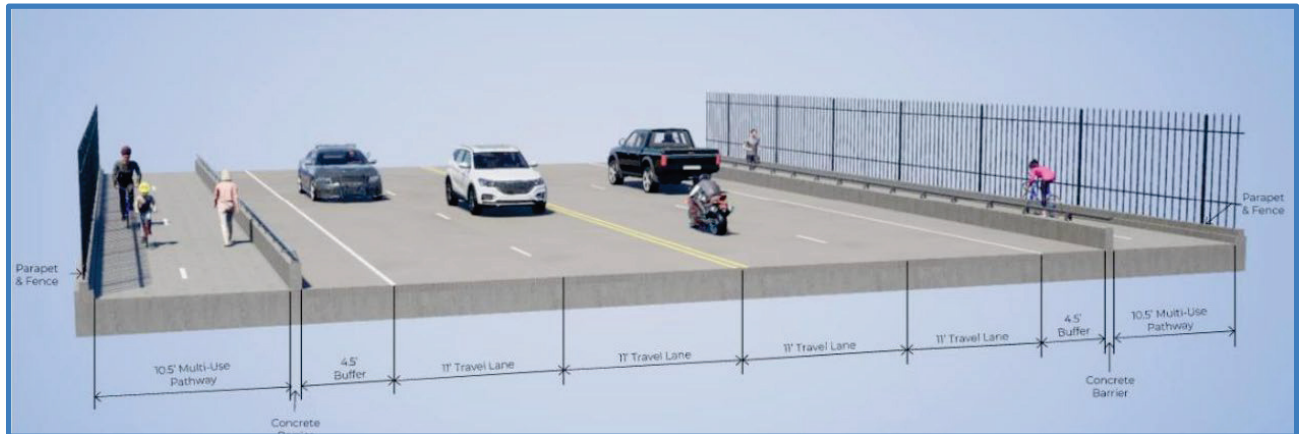
• **Sum of River & Rock Bridge Abutment A & B = 99 SY = \$25,542.00**



Bridge

- Bridge Combination Railing (one side)
 - River & Rock = 104.9 SY at \$258.00 = \$27,064.20
- Bridge Pedestrian Railing (two sides)
 - River & Rock = 209.9 SY at \$258.00 = \$54,154.20

• **Sum of River & Rock Bridge Comb Railing (one side) and Bridge Ped Railing (two sides) = 314.8 SY = \$81,218.40**



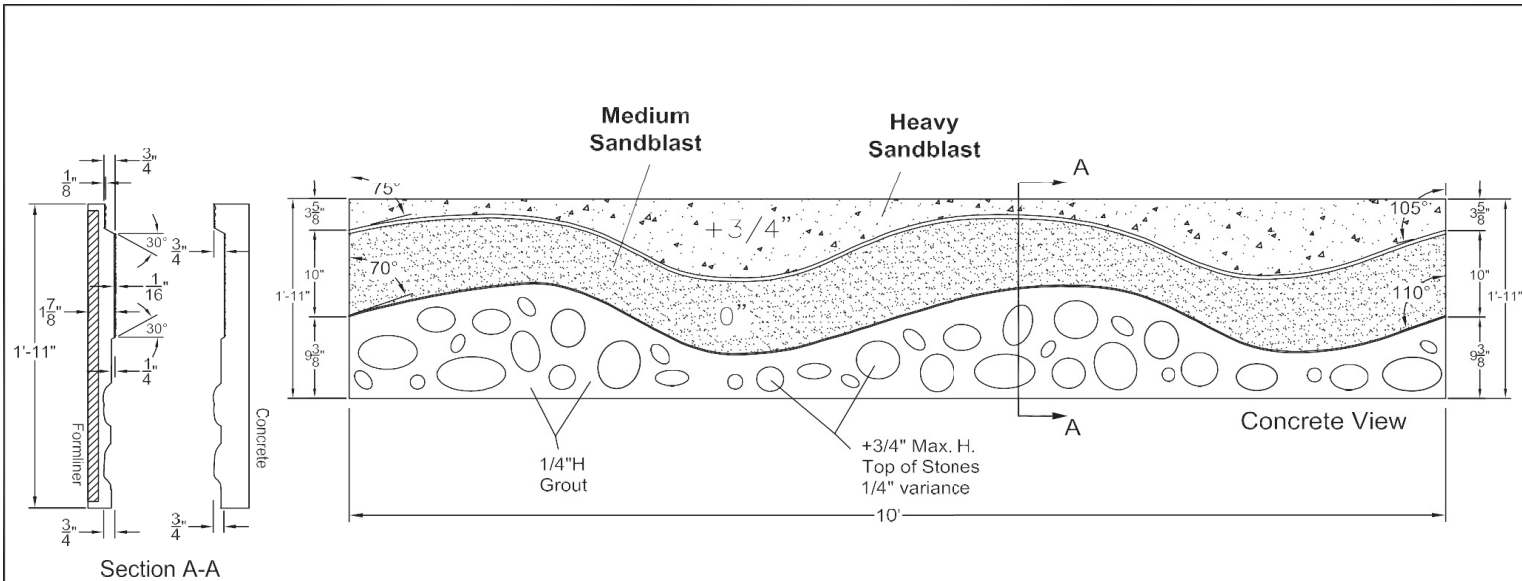
The City spent about \$1.8M on the design effort; the remaining funds from the originally set aside \$2.5M are now back in the General Fund. If Council still wants to move forward with the custom form liner, Staff will need to process a budget amendment in FY27. When the FY27 budget was being developed, Staff/ACHD did not have a good cost estimate. If Council isn't generally supportive of the partnership, Staff will need to relay this to ACHD and the contractor so they do not order the custom form liner. The ACHD standard without any custom concrete stamping is a stacked rock form liner stamping pattern (see Exhibit C) on the MSE wall and the MUP barrier will be smooth concrete on both sides.

City Staff have discussed and recommend moving forward with the custom river/rock form liner in a couple of areas; where the biggest cost-benefit seems to be in the abutment walls (parallel to I-84), and the parapet (perpendicular wall) above the Interstate. These costs would be \$106,760 (\$25,542+\$81,218).

Attached Exhibits

- Exhibit A – Custom river/rock pattern for the barriers
- Exhibit B – Custom river/rock pattern for the MSE walls
- Exhibit C – Standard Fitzgerald pattern “17002 Austin Ashlar”
- Exhibit D – Custom patterns on barriers
- Exhibit E – Custom pattern on MSE walls

EXHIBIT A - Custom river/rock pattern for the barriers



Concrete Texture Height

- 0" Medium Sandblast ($\frac{1}{16}$ ")
- $\frac{1}{4}$ " Grout between River Rock
- $\frac{3}{4}$ " Heavy Sandblast ($\frac{1}{8}$ ")
- $\frac{3}{4}$ " Top of Stones, varies $\frac{1}{4}$ "

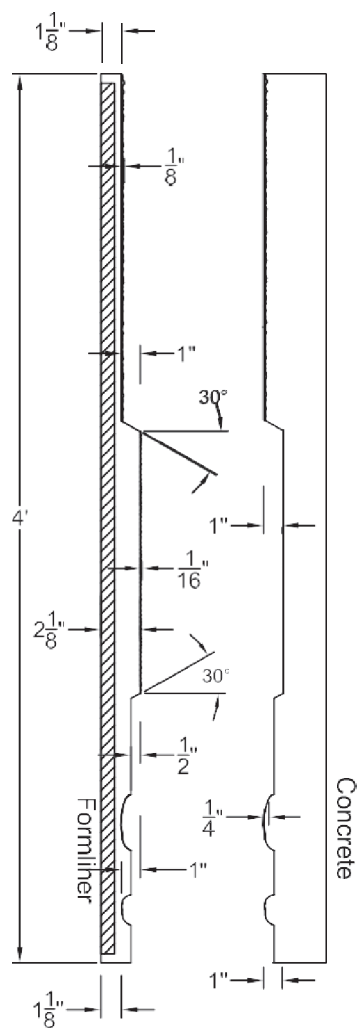
Qty: 15

CUSTOMER APPROVAL SIGNATURE _____ DATE _____

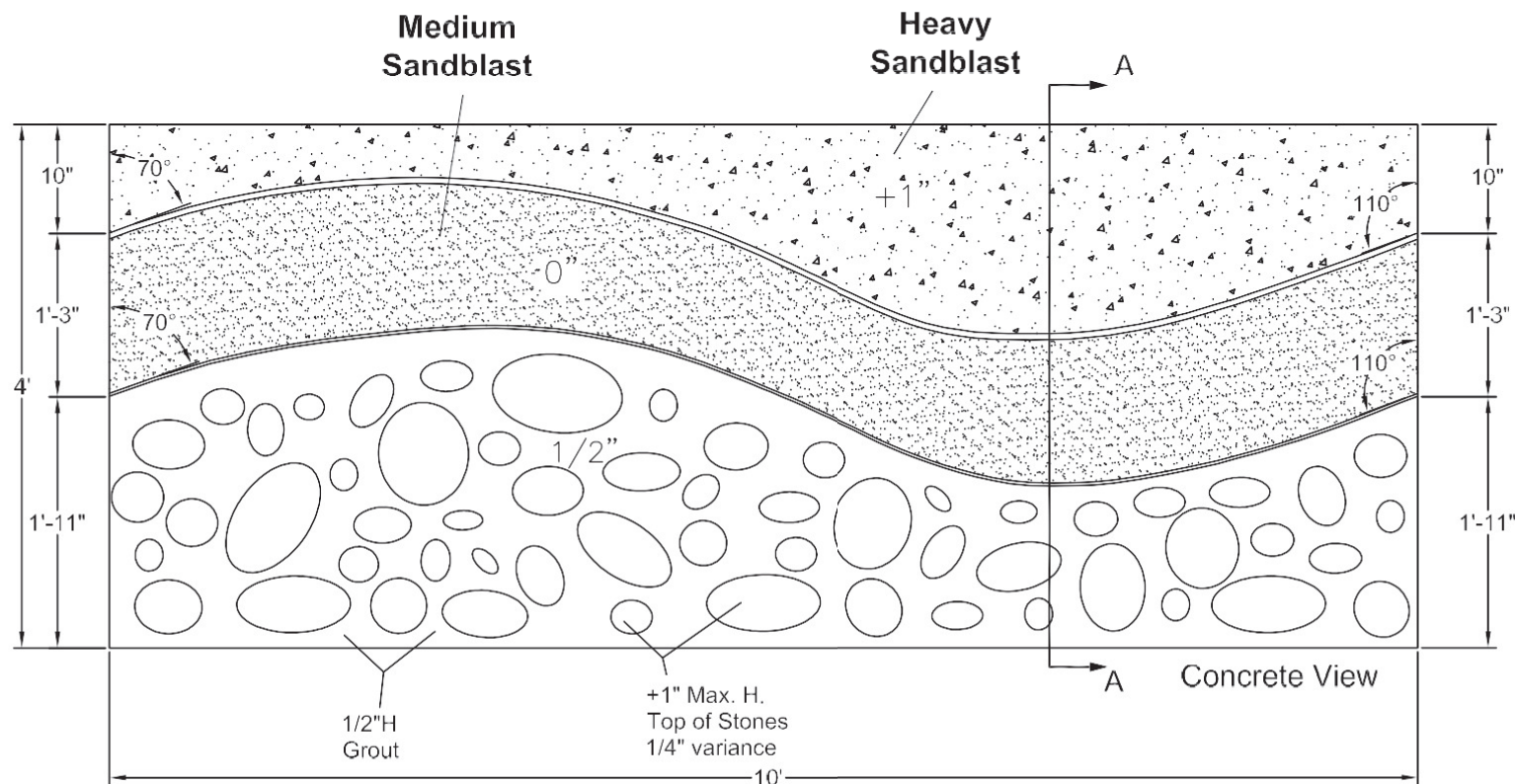
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES DECIMALS .XX ± .125 ANGULAR .XXX ± .0625 DO NOT SCALE DRAWING			FITZGERALD FORMLINERS (714) 547-6710 1500 E. Chestnut Avenue FAX(714) 245-9715 Santa Ana, CA 92701 WWW.FORMLINERS.COM	
REV	DATE	DESC.	Concrete Placing - S.O. # 7826 PATTERN: Parapet Panel	
001	8/18/09	ORIG. DWG		
004	12/01/09	Change rock pattern		
005	12/04/09	Match rock pattern to illustration		
DWG NO. S-Concrete Placing - SO 7826		MATL/FINISH GRAYLASTIC	DRAWN BY: KC	DATE 12/04/09
SCALE		CHECKED BY	SHEET 1 OF 1	

EXHIBIT B - Custom river/rock pattern for the MSE walls



Section A-A



Concrete Texture Height

- 0" Medium Sandblast ($\frac{1}{16}$ ")
- $\frac{1}{2}$ " Grout between River Rock
- 1" Heavy Sandblast ($\frac{1}{8}$ ")
- 1" Top of Stones, varies $\frac{1}{4}$ "

Qty: 13

CUSTOMER APPROVAL SIGNATURE	DATE
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES		
DECIMALS	TOLERANCES	ANGULAR
.XX ± .125	± 0.5°	
.XXX ± .0625		
DO NOT SCALE DRAWING		
REV	DATE	DESC.
001	8/18/09	ORIG. DWG
004	12/01/09	Change rock pattern
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FITZGERALD FORMLINERS



(714) 547-6710
FAX (714) 245-9715

1500 E. Chestnut Avenue
Santa Ana, CA 92701

WWW.FORMLINERS.COM

Concrete Placing - S.O. # 7826

PATTERN: Stemwall

DWG NO.	MATL/FINISH	DRAWN BY:	DATE
S-Concrete Placing - SO 7826	GRAYLASTIC	KC	12/04/09
SCALE	CHECKED BY	SHEET	OF
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Forming The Future™

PATTERN 17002 Austin Ashlar

Random Rough Stacked Rock

Vac-U-Form™

Styrene - Single Use.
ABS Plastic - Up to 15 reuses.

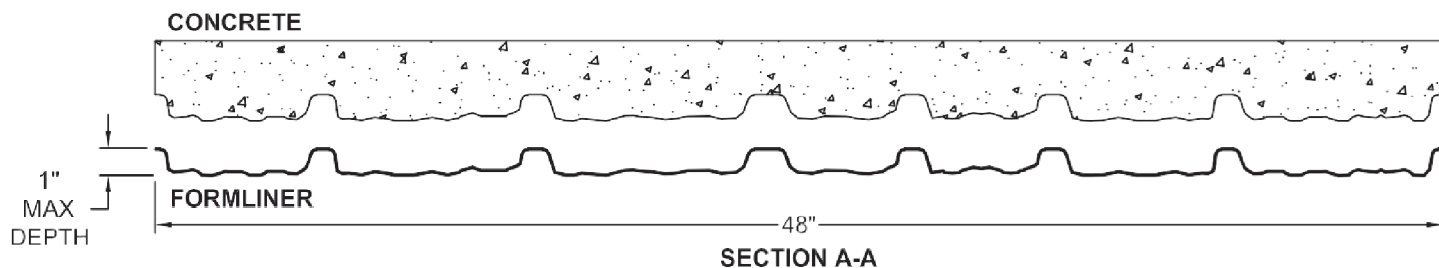
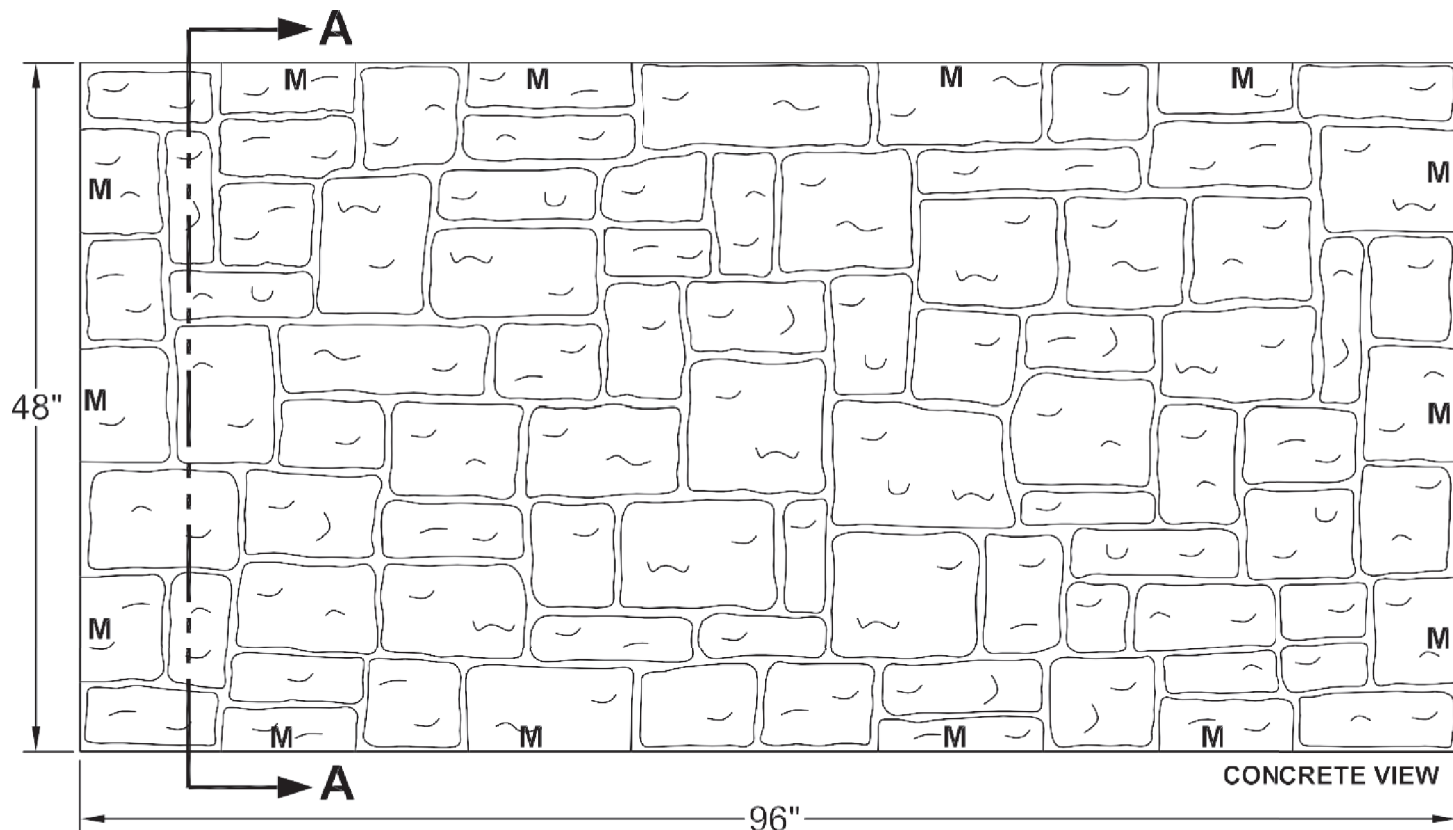
Stone & Rock

Part Size: 96" W x 48" H

Max Depth: 1.0"

Stone Sizes: 3"- 16" W
2"- 14" H

Pattern matches side to side and top to bottom
M=Match Point



FORMLINER DETAIL



EXHIBIT C Standard Fitzgerald pattern "17002 Austin Ashlar"

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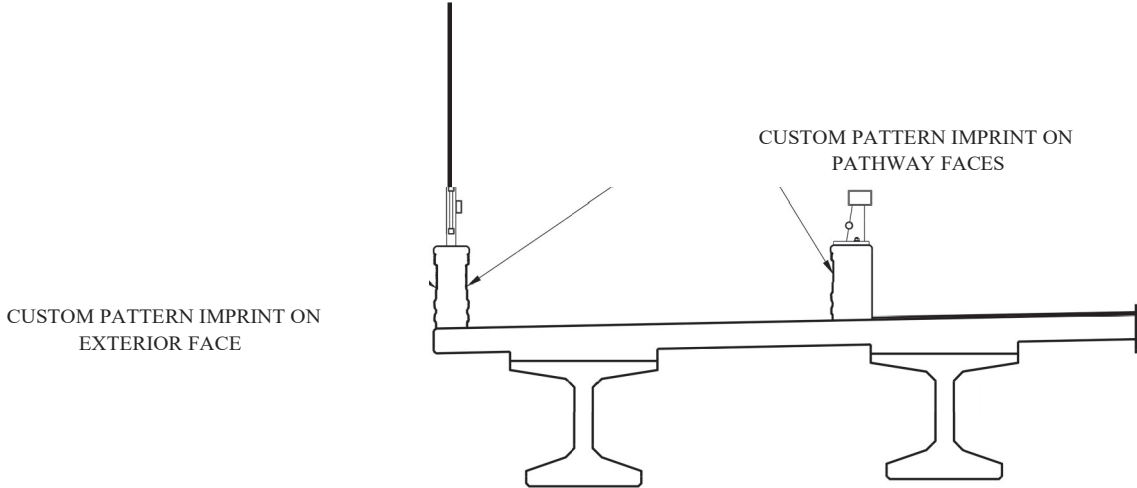
Ph: (800) 547-7760 • Ph (714) 547-6710 • www.formliners.com

Pattern can be requested in AutoCad format.

File Name: S-17002-VF-11-01-11

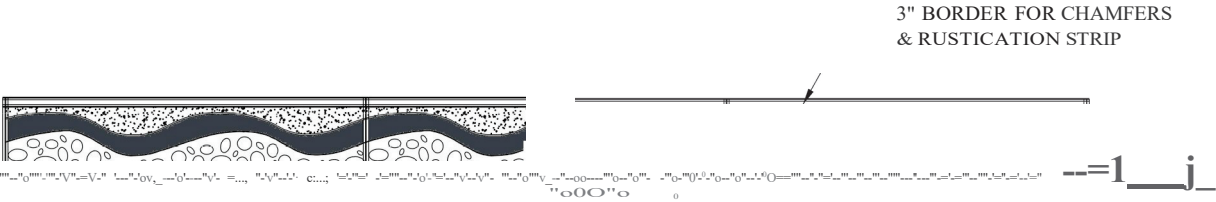
Page 1 of 2

EXHIBIT D - Custom patterns on barrier



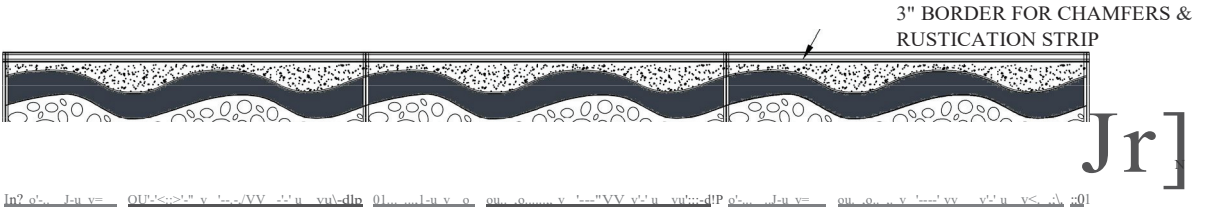
TYPICAL SECTION OF PATHWAY AREA

3/46"=1'-0"



INSIDE BARRIER - PATHWAY FACE

3/46"=1'-0"



EXTERIOR BARRIER - BOTH FACES

3/46"=1'-0"

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NO. DATE BY REVISIONS DESCRIPTION

DESIGNED
K.JACOBSON
DESIGN CHECKED
B. SCHILLER
DETAILED
T.GHAN

SCALES SHOWN
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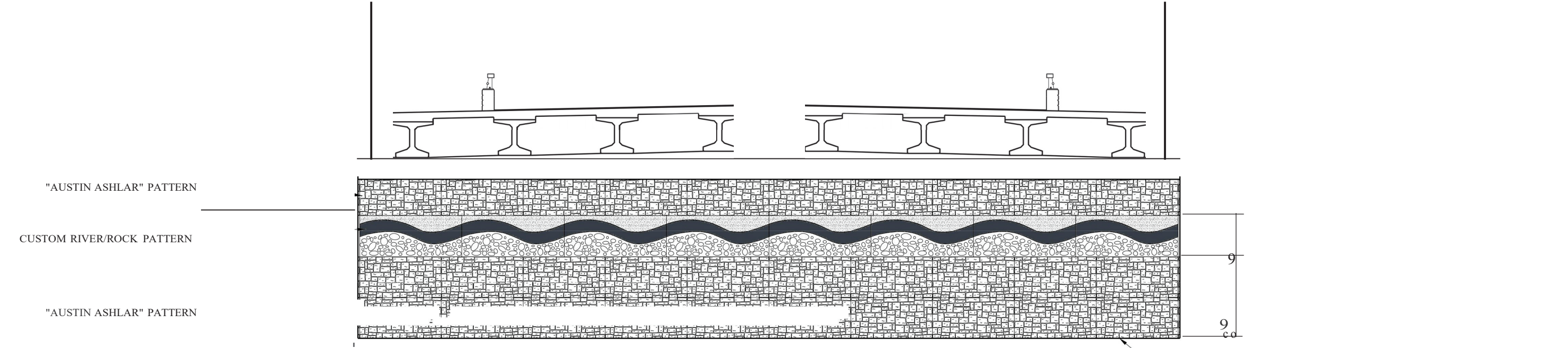
CONCRETE BARRIER TEXTURED CONCRETE DETAILS
196' PRESTRESSED CONCRETE BRIDGE
UNDER ROAD OVER 194

BRIDGE PLANS
BRIDGE KEY NO
34260
COUN
TV
KEY NO

ORIGINAL SIGNED BY:

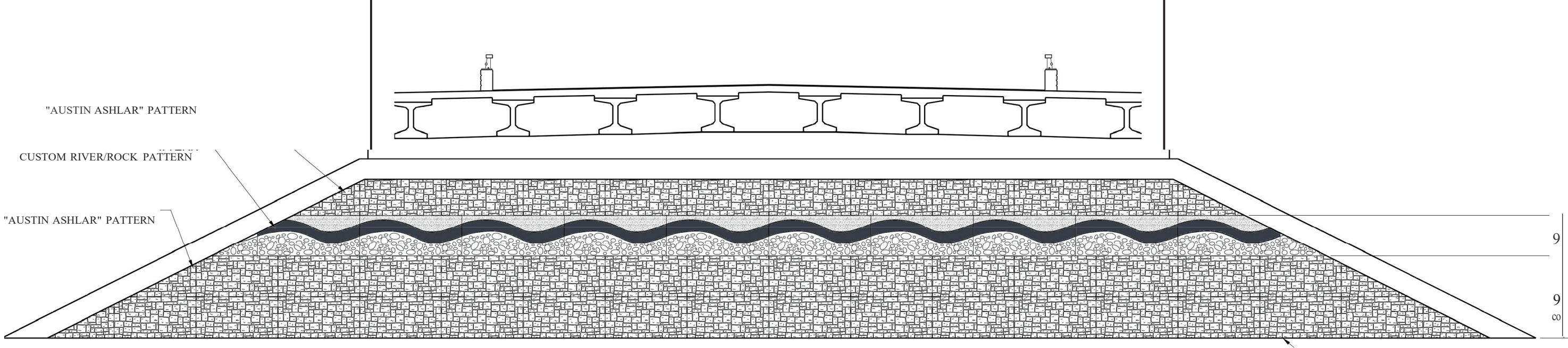
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EXHIBIT E - Custom patterns on MSE walls



MSE WALL NORTH ELEVATION
1"=10'

APPROXIMATE
F.G. OF 1-84



MSE WALL SOUTH ELEVATION
1"=10'

APPROXIMATE
F.G. OF 1-84

ORIGINAL SIGNED BY: