

LICENSE AGREEMENT

This LICENSE AGREEMENT ("License") is made this _____ day of _____, 2025 (the "Effective Date"), by and between ADAMS COUNTY, COLORADO, a political subdivision of the State of Colorado ("Licensor"), and HOLCIM-WCR, INC., a Colorado corporation ("Licensee").

RECITALS

A. Licensor is the owner of property (the "Premises"), and desires to protect the Premises and to preserve the future use of said Premises, which is more particularly described as follows:

The right-of-way across Tucson Street and in the vicinity south of E. 168th Avenue, as more particularly described in the attached Exhibit A and Exhibit B.

B. Licensee desires to install, construct, locate, survey, maintain, repair, use, operate, control, and inspect, an underground conveyor belt system (collectively, the "Licensed Facility") beneath Tucson Street and in the vicinity south of E. 168th Avenue in, under, or along portions of the Premises as more particularly shown on Exhibit A and Exhibit B (the "Licensed Area"), attached hereto and made a part hereof, and desires to obtain Licensor's permission therefore.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Licensor hereby grants to Licensee, with respect to such interest as the Licensor may have in the Premises, the authorization for the Licensed Facility in, on, or under the Licensed Area, subject to the following:

(1) Licensee shall bear the sole cost and obligation of obtaining such permits as are required for the Licensed Facility (the "Additional Authorization"). Licensee agrees that any authorization granted herein is subject to Licensee obtaining such Additional Authorization. Licensee shall be solely responsible for the costs related to the Licensed Facility.

(2) Licensee hereby agrees to comply with the construction requirements and approved drawings attached as Exhibit C (Approved Construction plans) and Exhibit D (Cost Estimate for Removal) attached hereto and referenced herein.

(3) Licensee shall provide Licensor a performance bond to cover the cost of removal of the Licensed Facility in the amount of \$1,362,166.48, as shown in Exhibit D. If the Licensee fails to remove the Licensed Facility within the time afforded for in Section 14 herein, the performance bond shall be forfeited in an amount sufficient to defray the expense of removal of the Licensed Facility by Licensor.

(4) Licensor intends to use the Premises for governmental purposes, and the rights herein granted to Licensee for the use of the Premises are subject to the rights of the Licensor to use the Premises for such purposes, which rights Licensor hereby expressly reserves.

- (5) Licensor agrees to allow the following roadway closure/disruption of Tucson Street:
- (a) For installation of the Licensed Facility within the roadway right-of-way:
One (1) 30-day period of signalized, one-lane roadway closure.
 - (b) For removal of the Licensed Facility within the roadway right of way: One
(1) 30-day period of signalized, one-lane roadway closure.
- (6) Licensee must have all traffic control Method of Handling Traffic plans approved by Licensor prior to commencement of any work within the road right-of-way.
- (7) This is a revocable license, and Licensee, upon written request from Licensor, shall remove or relocate the Licensed Facility at Licensee's sole cost and expense, subject to the terms of Section 14.
- (8) Any damage to the Premises, or to Licensor's facilities located on the Premises, as a result of the Licensed Facility shall be paid for or repaired at the expense of Licensee.
- (9) The Licensee shall notify the Licensor at least five (5) calendar days preceding the date of commencing any work on or relating to the Licensed Facility, or repair of the Licensed Facility, permitted hereunder; provided, however, that in the event of an emergency, Licensee may commence any work or repair to the extent necessary to cure or respond to the emergency without providing any notice, but shall notify Licensor of such emergency and necessity to commence such work or repair as soon as possible. The Licensor or its representatives may inspect the Licensed Facility or repairs of the Licensed Facility during the construction thereof as it deems necessary. Notwithstanding anything to the contrary contained in this License, Licensee, at its sole expense, hereby agrees to provide a structural inspection report of the box culvert structure every four (4) years after the Effective Date, which such report must be prepared by a licensed engineer and in conformance with National Bridge Inspections Standards (NBIS). The inspection reports shall be provided to the Community and Economic Development Department.
- (10) (a) (i) As used in this License, the term "Claims" means (1) losses, liabilities, and expenses of any sort, including attorneys' fees; (2) fines and penalties; (3) environmental costs, including, but not limited to, investigation, removal, remedial, and restoration costs, and consultant and other fees and expenses; and (4) any and all other costs or expenses.
- (ii) As used in this License, the term "Injury" means (1) death, personal injury, or property damage; (2) loss of profits or other economic injury; (3) disease or actual or threatened health effect; and (4) any consequential or other damages.
- (b) Licensee covenants and agrees to at all times protect, indemnify, hold harmless, and defend Licensor, its directors, officers, agents, employees, successors, assigns, parents, subsidiaries, and affiliates from and against any and all Claims arising from, alleged to arise from, or related to any Injury allegedly or actually occurring, imposed as a result of, arising from, or related to (1) this License; (2) the construction, existence, maintenance, operation, repair, inspection, removal, replacement, or relocation of the Licensed Facility; or (3) Licensee's or any other person's presence at the Premises as a result

of or related to Licensee's activities under this License who is under the control of the Licensee or for whose actions the Licensee is liable.

(c) Licensee's duty to protect, indemnify, hold harmless, and defend hereunder shall apply to any and all Claims and Injury arising from, or alleged to be arising in any way from, the acts or omissions of Licensee, its sublessees, invitees, agents, or employees, including, but not limited to:

(i) Claims asserted by any person or entity, including, but not limited to, employees of Licensee or its contractors, subcontractors, or their employees; and

(ii) Claims arising from, or alleged to be arising in any way from, the existence at or near the Premises of the Licensed Facility.

(11) [Intentionally Omitted]

(12) Venue for any dispute regarding this License or claims arising therefrom shall be in Adams County, Colorado.

(13) This License is not transferable or assignable without the express written permission of Licensors, acting by and through its Board of County Commissioners.

(14) Subject to Section 5 above, upon abandonment of the use of the Licensed Area by Licensee or removal of the Licensed Facility, this License shall terminate. Removal of the Licensed Facility and restoration of Licensed Area shall be completed no later than three (3) months after mining operations pursuant to Permit No. EXG2020-00001 have concluded, the latest possible date allowable is March 9, 2030. Licensee shall receive approval of a traffic control plan from Licensors for removal of the Licensed Facility. Full closure of the roadway is prohibited.

(15) This License shall inure to the benefit of and be binding upon the successors and permitted assigns of the parties hereto.

(16) This License may be executed in two original counterparts, each of which shall be deemed an original of this instrument.

[Signature Pages Follow]

IN WITNESS WHEREOF, this License Agreement has been executed as of the Effective Date.

APPROVED BY Resolution at the meeting of _____, 2025.

ATTEST:

BOARD OF COUNTY COMMISSIONERS
ADAMS COUNTY, COLORADO

Clerk of the Board

APPROVED AS TO FORM:

County Attorney

AGREED AND ACCEPTED by Licensee this 18th day of December, 2024.

**HOLCIM-WCR, INC., a Colorado
corporation**

By: [Signature]
Name: KEVIN PEART
Title: SVP HOLCIM WCR INC.

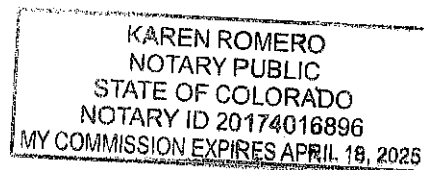
STATE OF COLORADO)
) ss.
COUNTY OF Jefferson)

The foregoing was subscribed to and sworn before me this 18th day of December, 2024 by Kevin Peart, as SVP of HOLCIM-WCR, INC., a Colorado corporation.

Witness my hand and official seal.

My Commission Expires: 4/18/2025

[Signature: Karen Romero]
Notary Public





MATRIX DESIGN GROUP, INC.
707 N 17TH STREET, SUITE 3150
DENVER, CO 80202
O 303.572.0200
F 303.572.0202
MATRIXDESIGNGROUP.COM

EXHIBIT A
LICENSE AREA - LAND DESCRIPTION

A PARCEL OF LAND SITUATED IN SECTION 1, TOWNSHIP 1 SOUTH, RANGE 67 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE CENTER QUARTER CORNER OF SAID OF SECTION 1, WENCE THE CENTER-SOUTH SIXTEENTH CORNER OF SAID SECTION 1 BEARS SOUTH 00°06'29" EAST FORMING THE BASIS OF BEARINGS FOR THE FOLLOWING DESCRIPTION; THENCE NORTH 06°45'16" WEST, A DISTANCE OF 259.19 FEET TO THE WEST RIGHT-OF-WAY LINE OF TUCSON STREET AND THE **POINT OF BEGINNING**;

THENCE SOUTH 89°49'19" EAST, A DISTANCE OF 60.00 FEET TO THE EAST RIGHT-OF-WAY LINE OF SAID TUCSON STREET;

THENCE COINCIDENT WITH SAID EAST RIGHT-OF-WAY THE FOLLOWING THREE (3) COURSES:

1. SOUTH 00°06'29" EAST, A DISTANCE OF 257.03 FEET;
2. NORTH 89°39'20" EAST, A DISTANCE OF 10.00 FEET;
3. SOUTH 00°06'29" EAST, A DISTANCE OF 342.85 FEET;

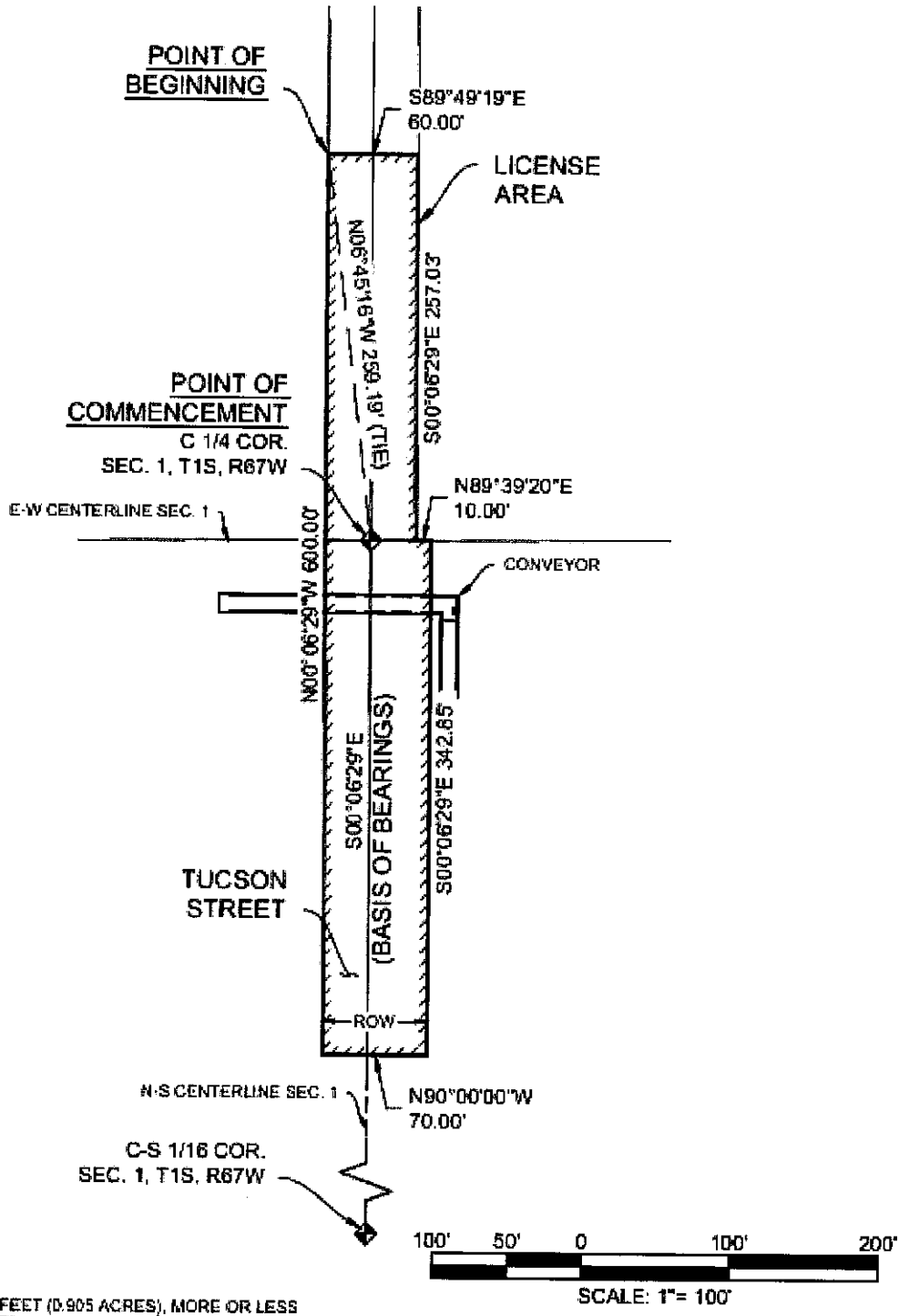
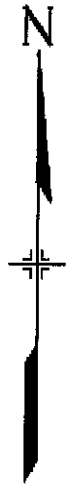
THENCE NORTH 90°00'00" WEST, A DISTANCE OF 70.00 FEET TO THE WEST RIGHT-OF-WAY LINE OF SAID TUCSON STREET;

THENCE NORTH 00°06'29" WEST ALONG SAID WEST RIGHT-OF-WAY LINE, A DISTANCE OF 600.00 FEET TO THE **POINT OF BEGINNING**.

THE ABOVE DESCRIPTION CONTAINS A CALCULATED AREA OF 39,422 SQUARE FEET OR (0.905 ACRES), MORE OR LESS, AND IS DEPICTED ON THE ATTACHED GRAPHICAL EXHIBIT FOR REFERENCE.



ALEXANDER AGUILAR, PLS 38858
PREPARED FOR AND ON BEHALF OF MATRIX DESIGN GROUP
707 17TH STREET, SUITE 3150
DENVER, CO 80202



AREA: 39,422 SQUARE FEET (0.905 ACRES), MORE OR LESS

PREPARED BY:



Matrix

SCALE: 1" = 100'

DRAWN BY: JHS

CHECKED BY: ALA

EXHIBIT B

LICENSE AREA

DATE: 7/22/2024

SHEET 1 OF 1

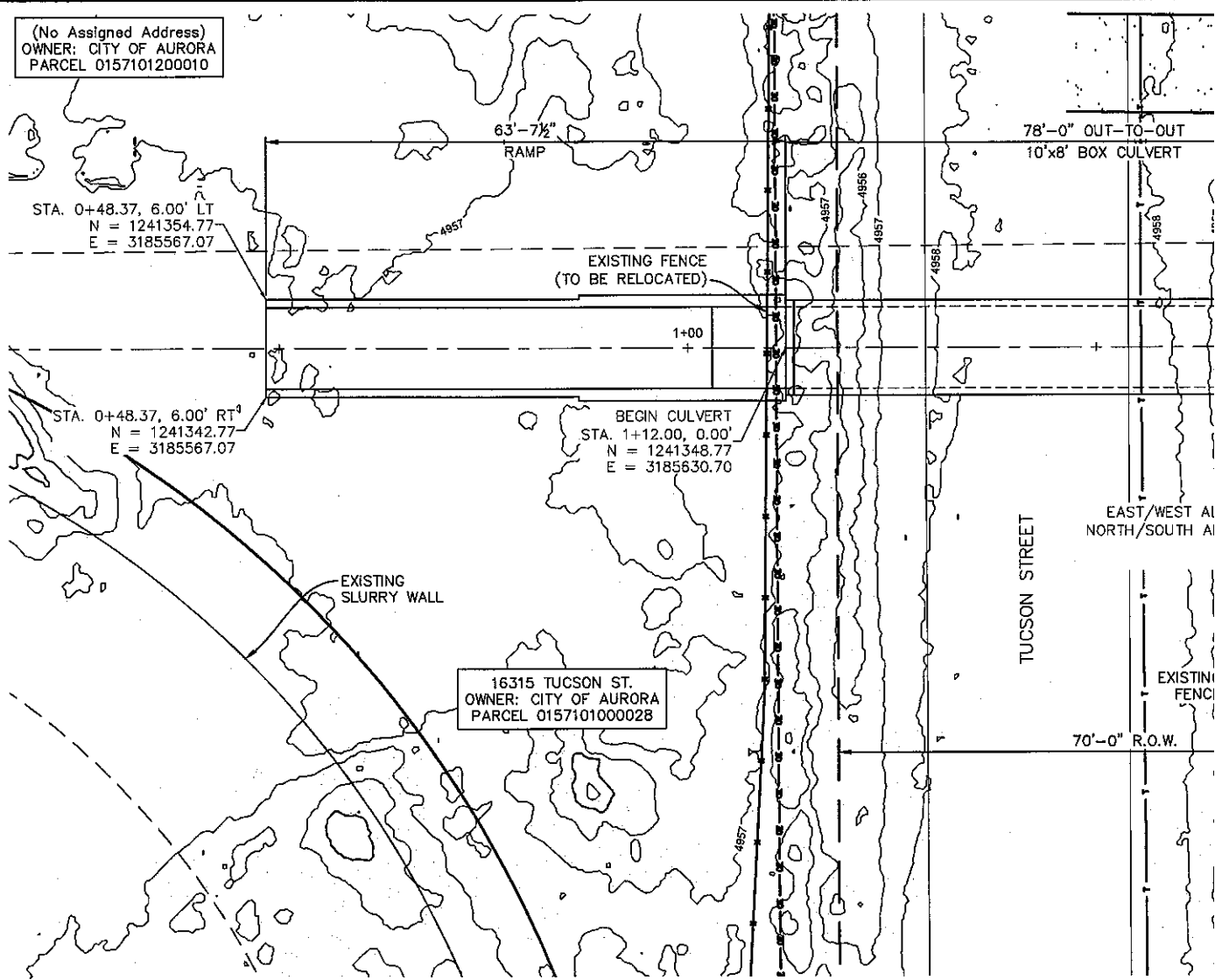
LOCAL
SECTION 1, TOWNSHIP 1
ADAMS COUNTY
100% CULVERT CONSTRUCTION
OCTOBER

REFERENCE DRAWINGS						SHEET KEY
X: MDG22x34 X: Aerial						
3	10/23/24	UTILITIES LOWERING SHEET ADDED			KPS	
No.	DATE		DESCRIPTION		BY	
COMPUTER FILE MANAGEMENT						
FILE NAME: R:\24_1470-901 (Tussock St Crossing)\CM (850-699)S500 CADD\504 Plan Sets\Construction Plans\Structures Plans\101-Tide Sheet.dwg						
CTB FILE: COMM-TECH_P-SIZE_BW.ctb						
PLOT DATE: 10/25/2024 9:53 AM						
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						

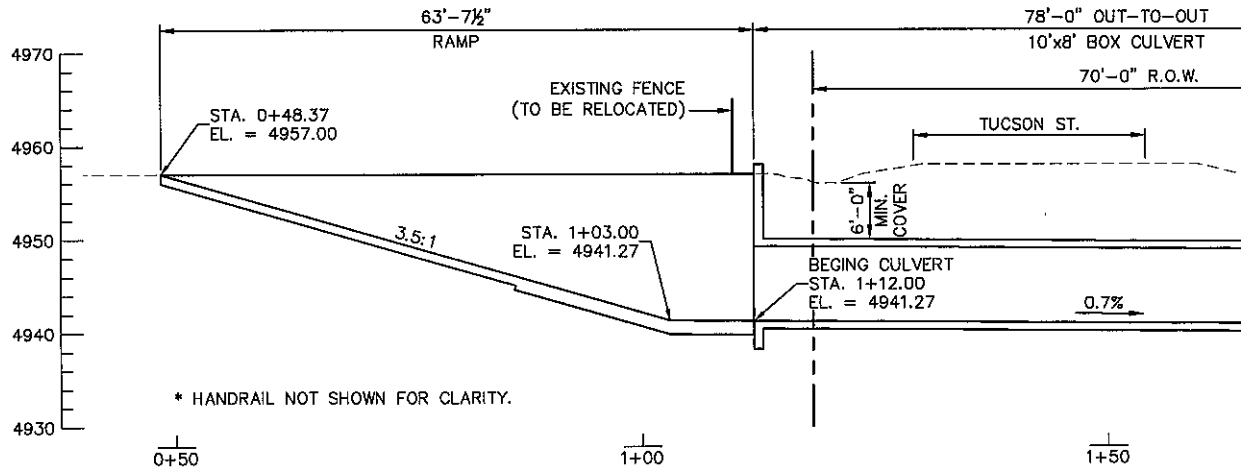
1. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.
2. ALL CONCRETE SHALL BE CDOT CLASS D (BOX CULVERT). CEMENTITIOUS MATERIAL SHALL MEET CLASS 2 REQUIREMENTS FOR SULFATE RESISTANCE.
3. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS PLACED.
4. CONTRACTOR SHALL SUBMIT A JOINTING AND PHASING LAYOUT FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
6. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH STANDARD PLAN M-206-1.
7. BACK FILL SHALL NOT BEGIN UNTIL TOP SLAB HAS REACHED DESIGN STRENGTH.
8. SPLICE QUANTITIES FOR LONGITUDINAL AND TRANSVERSE BARS ARE NOT INCLUDED.
9. REINFORCING STEEL SHALL BE GRADE 60.
10. THE MINIMUM LAP SPLICE LENGTH FOR EPOXY COATED BARS SHALL BE:

REFERENCE DRAWINGS						SHEET KEY
X-M0022-34						
	3	10/23/24	GENERAL UTILITIES NOTES ADDED		KPS	
	No.	DATE	DESCRIPTION		BY	
			REVISIONS			
	COMPUTER FILE MANAGEMENT					
	FILE NAME: R:\24 1470.001 (Tucson St Crossing)\CM (650-699)\500 CADD\504 Plan Sets\Construction Plans\Structures Plans\02-General Notes.dwg					
	CTB FILE: COMM-TECH_D-SIZE_BW.ctb					
	PLOT DATE: 10/26/2024 9:53 AM					
	THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

(No Assigned Address)
OWNER: CITY OF AURORA
PARCEL 0157101200010



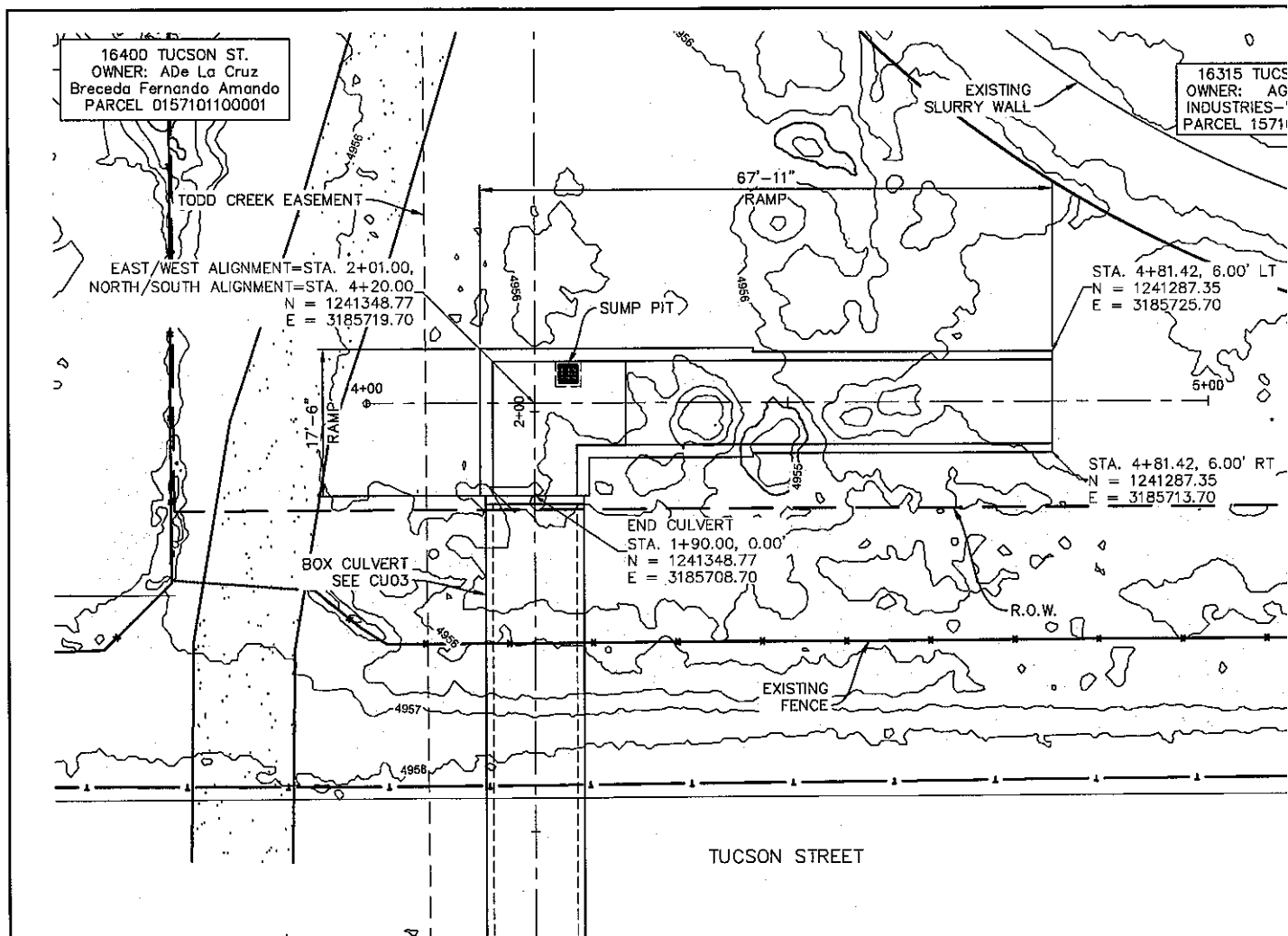
PLAN
1" = 10'



* HANDRAIL NOT SHOWN FOR CLARITY.

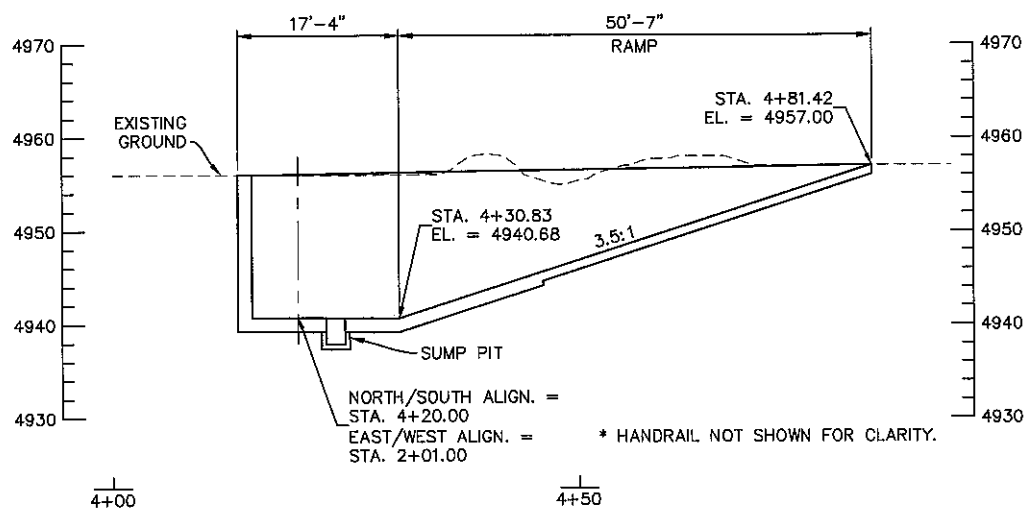
PROFILE - EAST/WEST AL
1" = 10'

REFERENCE DRAWINGS				SHEET KEY		
X-MDC22-34 X-Aerial_Original X-Survey 2 X-EQUIP X-PR-Structures						
No.		DATE		DESCRIPTION		BY
REVISIONS						
COMPUTER FILE MANAGEMENT						
FILE NAME: R:\24.1470.001 (Tucson St Crossing)\CM (650-699)\500 CADD\504 Plan Sets\Construction Plans\Structures Plans\03-Culvert Plan 1.dwg						
CTB FILE: COMM-TECH_D-SIZE_BW.ctb						
PLOT DATE: 10/25/2024 9:54 AM						
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						



PLAN

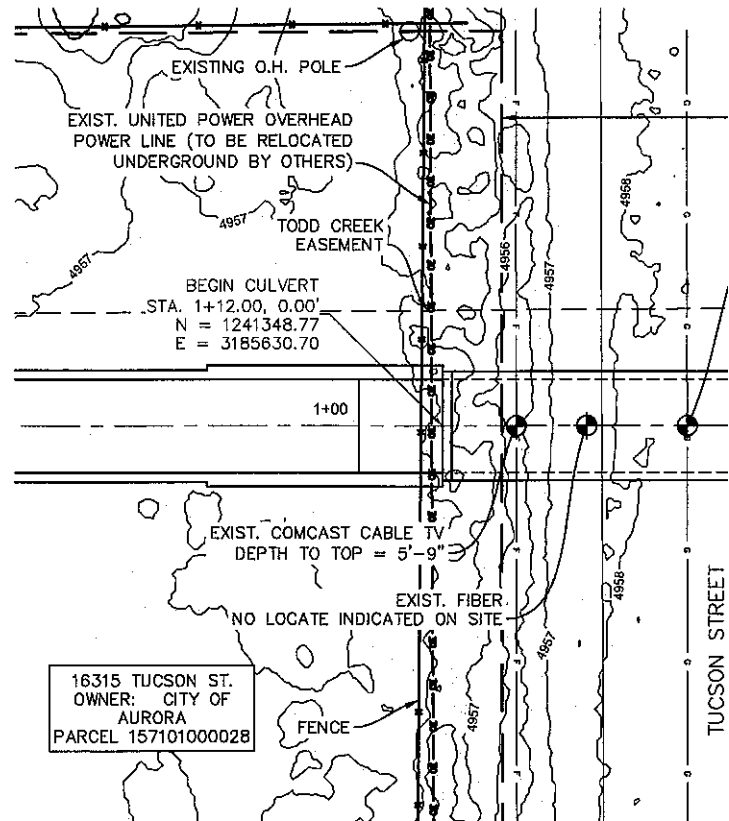
NOTE: FOR UTILITIES S



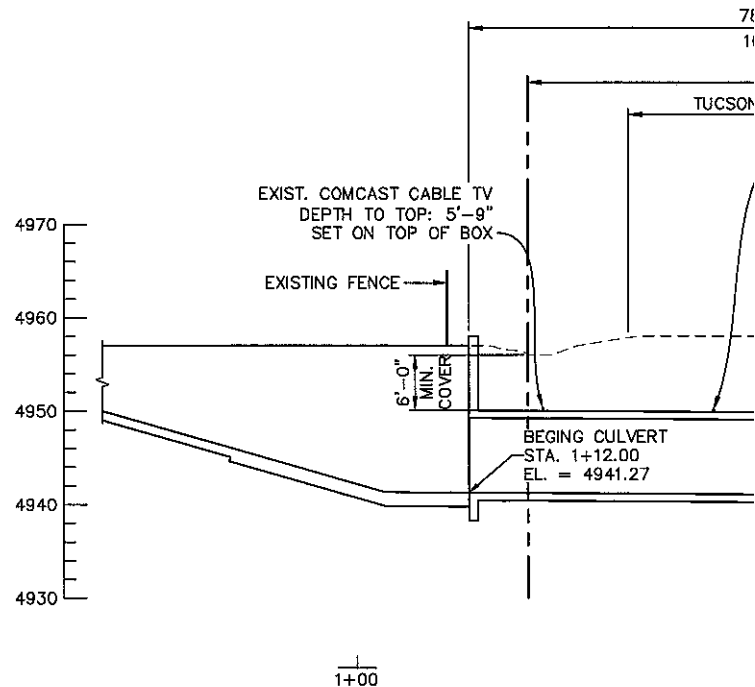
PROFILE - NORTH/SOUTH ALIGNMENT

1" = 10'

REFERENCE DRAWINGS				SHEET KEY		
X-M0222x34				<div>N</div> <div></div>	<div></div>	
X-Aerial_Original						
X-Asa Survey 2						
X-EQUIP						
X-PR-Structures						
No.	DATE	DESCRIPTION	BY			
REVISIONS						
COMPUTER FILE MANAGEMENT						
FILE NAME: R:\24.1470.001 (Tucson St Crossing)\CM (850-699)\500 CADD\504 Plan Set\Construction Plans\Structures Plans\04-Culvert Plan 2.dwg						
CTB FILE: COMM-TECH_D-SIZE_BW.ctb						
PLOT DATE: 10/25/2024 9:55 AM						
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						

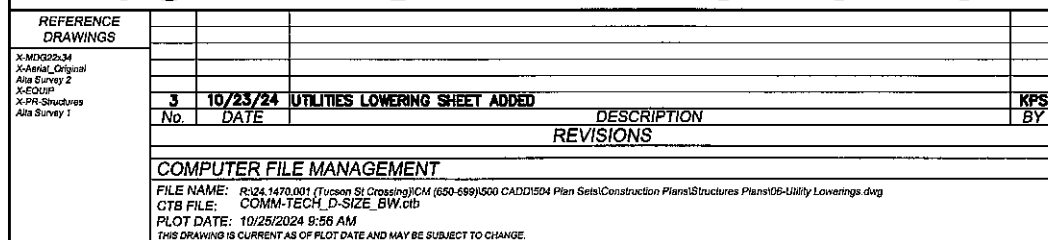
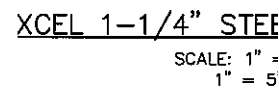


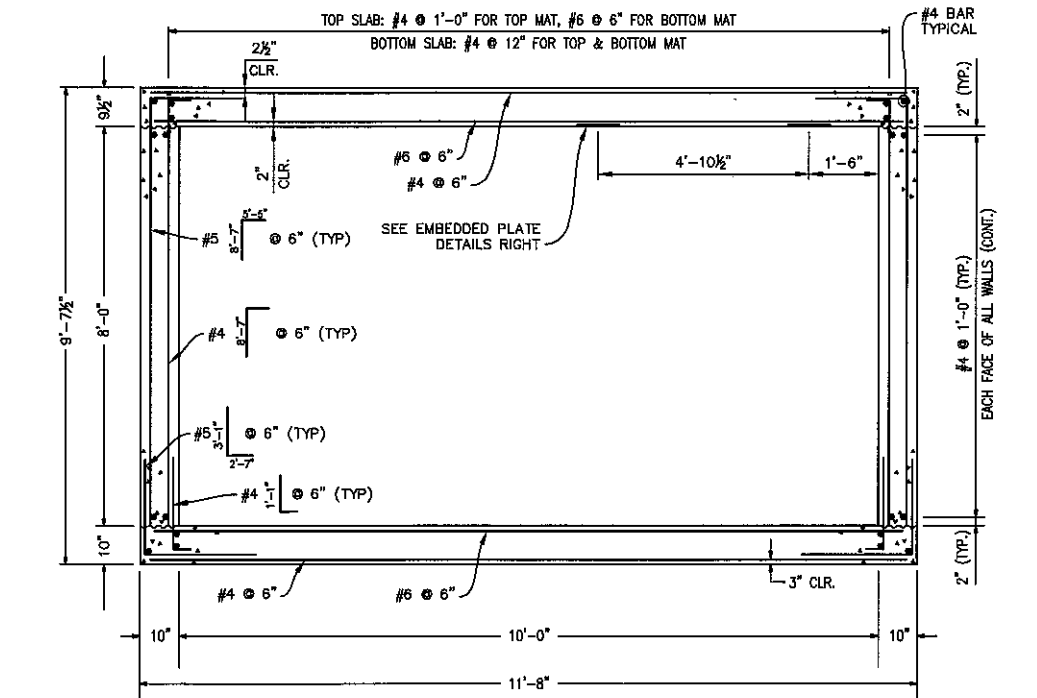
PLA
1" =



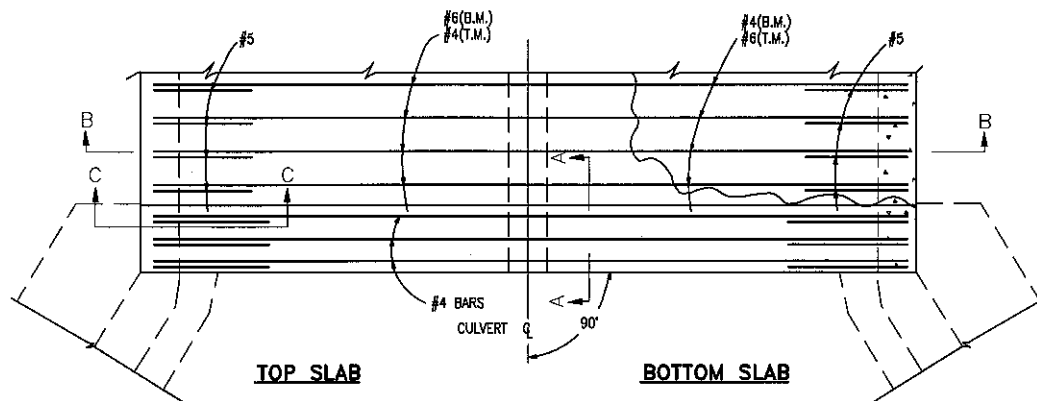
PROF
1" =

REFERENCE DRAWINGS				SHEET KEY	
X-MD022-04					
X-Aerial_Original					
Alta Survey 2					
X-EQUIP					
X-PR-Structures					
Alta Survey 1					
3	10/23/24	GENERAL UTILITIES NOTES ADDED		KPS	
No.	DATE	DESCRIPTION		BY	
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: R:\24.1470.001 (Tucson St Crossing)\CM (650-699)\500 CADD\504 Plan Sets\Construction Plans\Structures Plans\05-Utility Plan.dwg					
CTB FILE: COMM-TECH_D-SIZE_BW.ctb					
PLOT DATE: 10/25/2024 9:56 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					

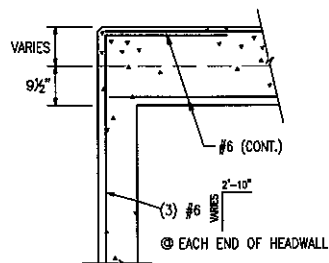




SECTION B-B



REINFORCING PLAN



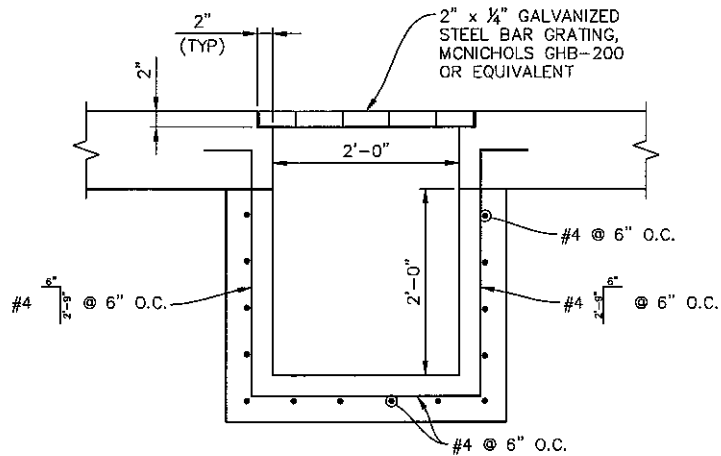
SECTION C-C

HEADWALL CORNER REINFORCING DETAIL

NOTE:

1. CONTRACTOR TO STAMP OR INSET THE CONSTRUCTION YEAR ON THE OUTSIDE OF EACH HEADWALL.

REFERENCE DRAWINGS						SHEET KEY
X-MDG22034						
No.	DATE	DESCRIPTION	BY			
		REVISIONS				
COMPUTER FILE MANAGEMENT						
FILE NAME: R:\34.1470.001 (Tucson St Crossing)\CM (850-699)\500 CADD\504 Plan Sets\Construction Plans\Structures Plans\07-Culvert Details 1.dwg						
CTB FILE: COMM-TECH_D-SIZE_BW.ctb						
PLOT DATE: 10/25/2024 9:57 AM						
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.						



NOTE:
INSTALL SUMP PIT AS SHOWN ON PLANS

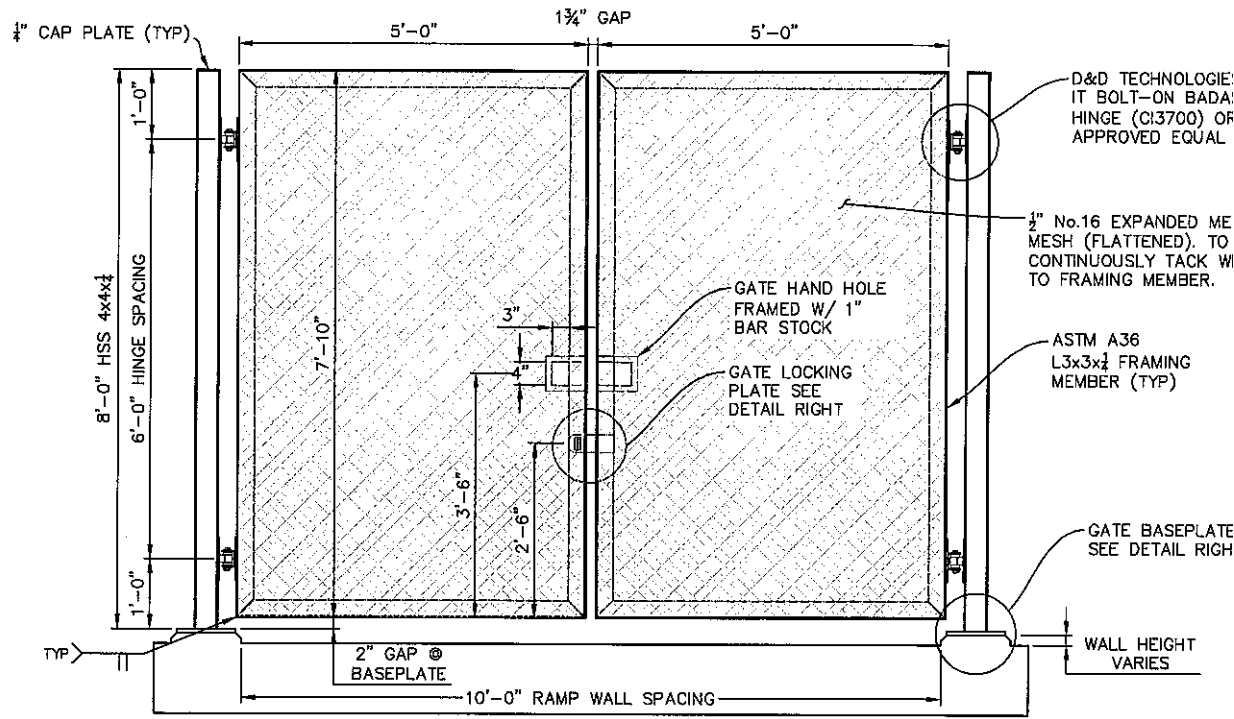
SUMP PIT DETAIL

SCALE: 1" = 1'-0"

REFERENCE DRAWINGS		SHEET KEY
X-MD02234		

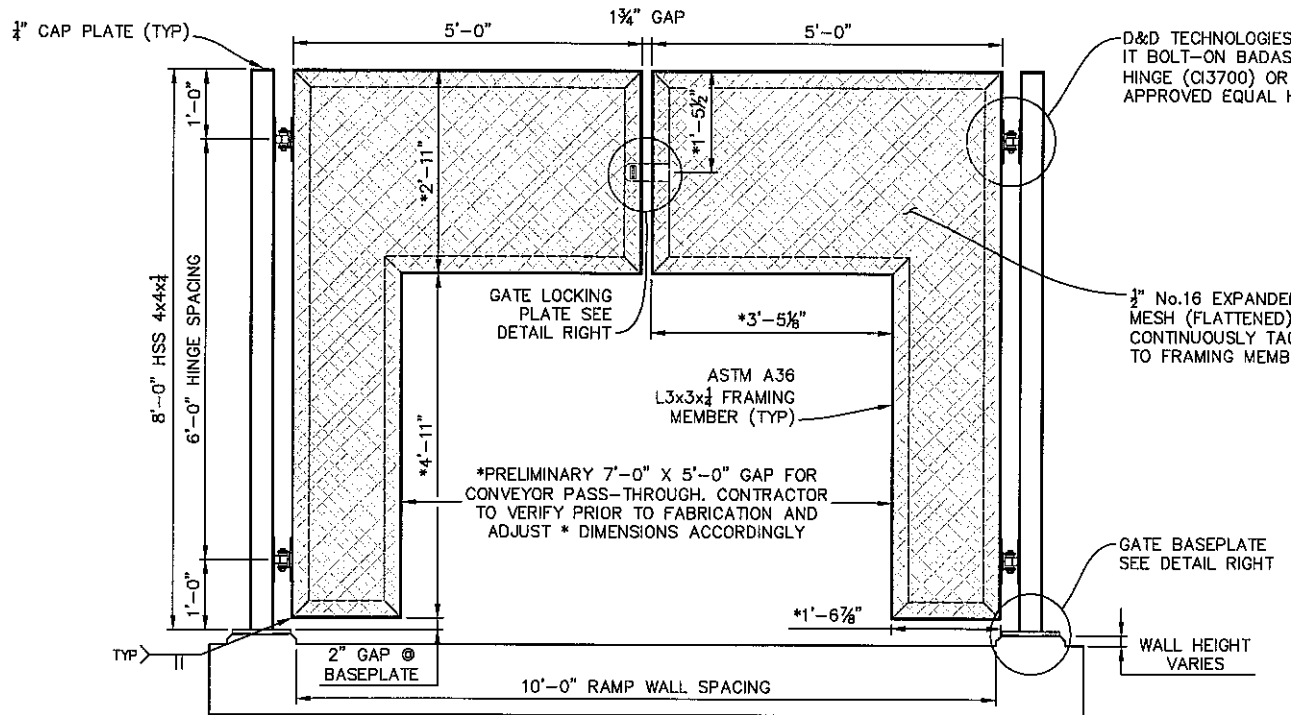
No.	DATE	DESCRIPTION	BY
		REVISIONS	

COMPUTER FILE MANAGEMENT			
FILE NAME:	R:124.1470.001 (Tucson St Crossing)CM (650-699)500 CADD/S04 Plan Sets/Construction Plans/Structures Plans/08-Culvert Details 2.dwg		
CTB FILE:	COMM-TECH_D-SIZE_BW.ctb		
PLOT DATE:	10/25/2024 9:57 AM		
	THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.		



STANDARD GATE ELEVATION

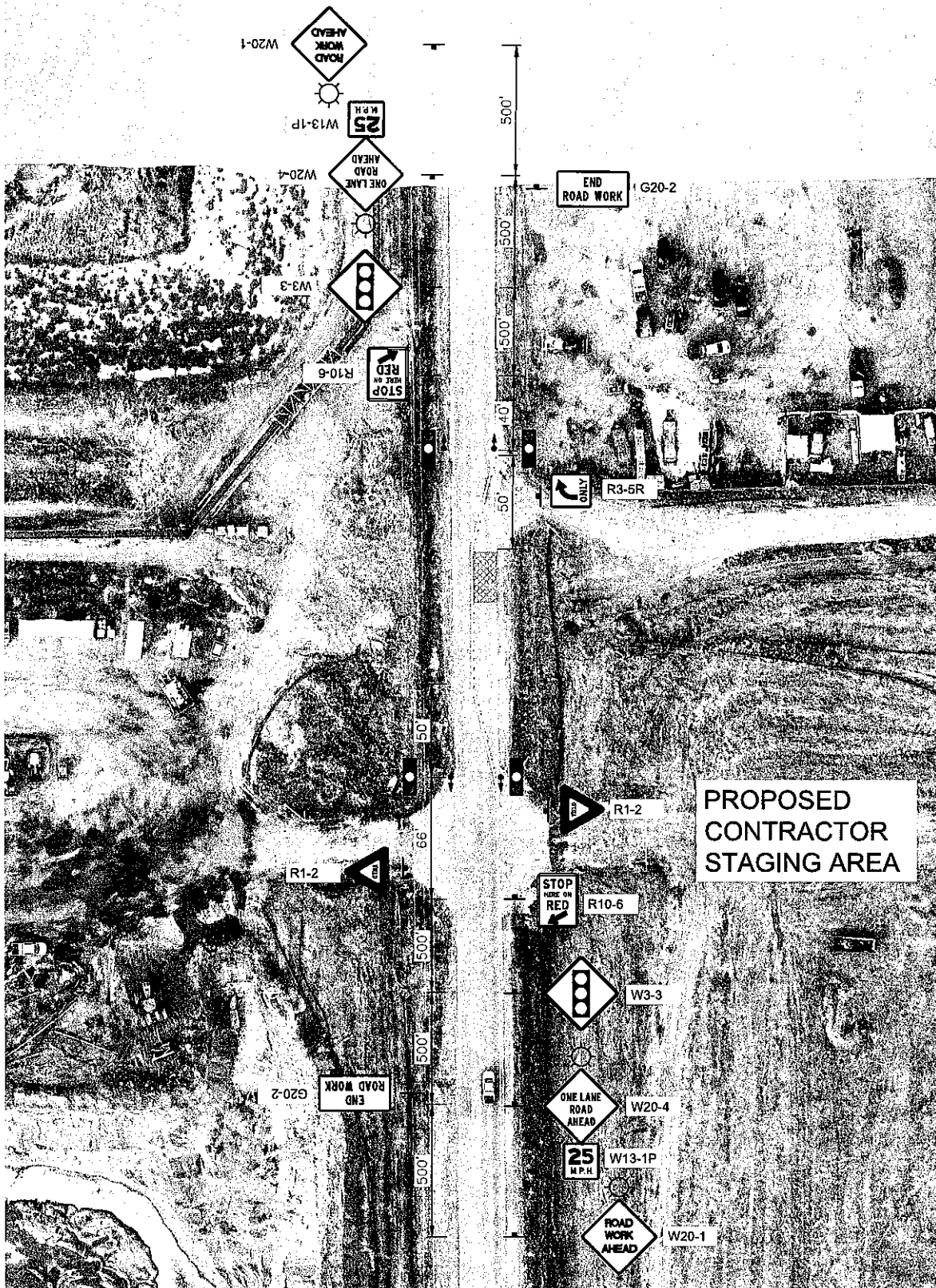
SCALE: 3/4" = 1'-0"



CONVEYOR GATE ELEVATION

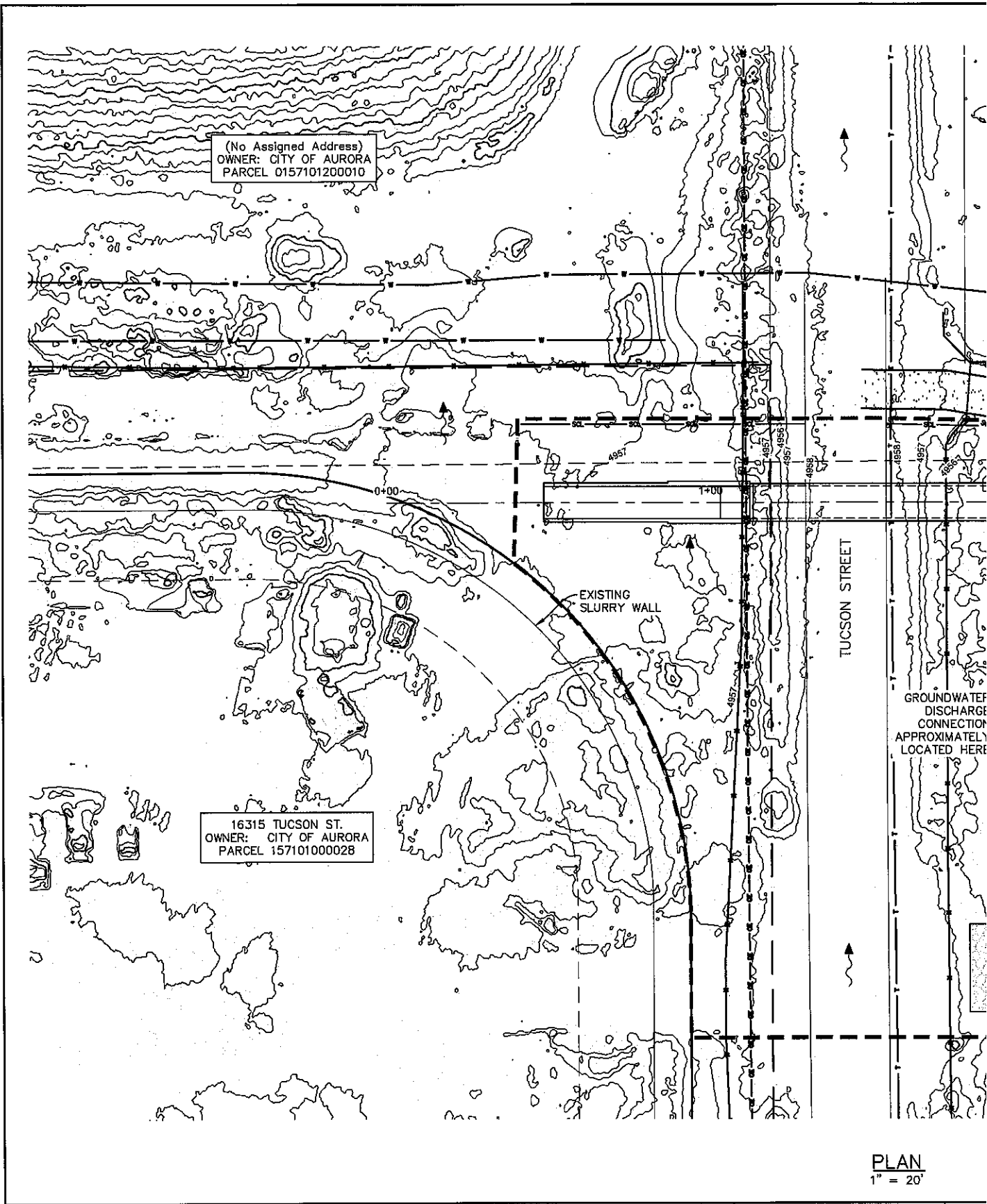
SCALE: 3/4" = 1'-0"

REFERENCE DRAWINGS					SHEET KEY
X-MD022534					
No.	DATE	DESCRIPTION	BY		
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: R:\04 1470.001 (Tucson St Crossing)\GCM (650-699)\500 CADD\1904 Plan Sets\Construction Plans\Structures Plans\11-Gate Details.dwg					
CTB FILE: COMM-TECH_D-SIZE_BW.ctb					
PLOT DATE: 10/25/2024 9:57 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					



PHASE A

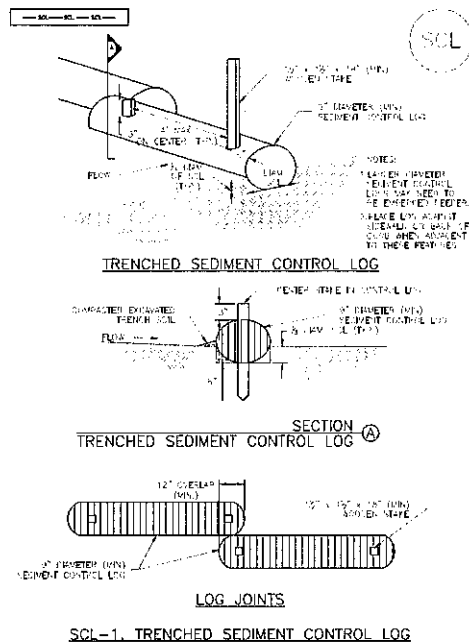
REFERENCE DRAWINGS				SHEET KEY	
X-MDG22x34					
X-Aerial					
X-Aerial_Traffic					
No.	DATE	DESCRIPTION	BY		
REVISIONS					
COMPUTER FILE MANAGEMENT					
FILE NAME: R:\24.1470.001 (Tucson St Crossing)\CM (695-699)\500 CADD\504 Plan Sets\Construction Plans\Structures Plans\12 Traffic Control Plan 01.dwg					
CTB FILE: COMM-TECH_D-SIZE_BW.ctb					
PLOT DATE: 10/25/2024 9:59 AM					
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.					



PLAN
1" = 20'

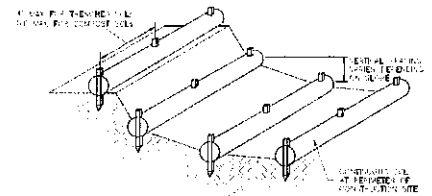
REFERENCE DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
-----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SC-2



November 2015 Urban Drainage and Flood Control District SCL-3
Urban Storm Drainage Criteria Manual Volume 3

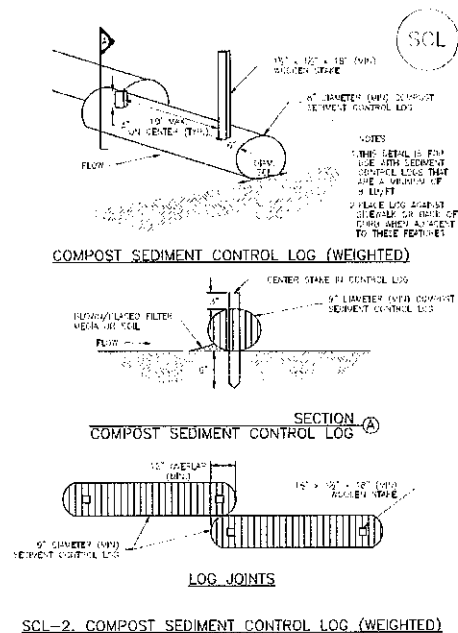
SC-2



SCL-3. SEDIMENT CONTROL LOGS TO CONTROL SLOPE LENGTH

November 2015
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
SCL-5

Sediment Control Log (SCL)



SCL-4 Urban Drainage and Flood Control District November 2015
Urban Storm Drainage Criteria Manual Volume 3

Sediment Control Log (SCL)

SEGMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
2. SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY IMPROVEMENT LAND-EXISTING-AS-ACTIVE.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELORON OR COCONUT FIBER AND SHALL BE 18" TO 24" IN DIAMETER. THEY SHOULD BE 10' LONG. THEY SHOULD BE 18" TO 24" IN DIAMETER. THEY SHOULD BE 10' LONG. THEY SHOULD BE 18" TO 24" IN DIAMETER. THEY SHOULD BE 10' LONG.
4. SEDIMENT CONTROL LOGS MAY BE USED AS CHECK DAMS IN DITCHES AND SHALES HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
5. IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STRAWING, COMPOST LOGS THAT ARE A LIFT/TO NOT NEED TO BE TRENCHED.
6. THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILLER. THE FILLER OF THE FILLER OF ROCKS AND DEBRIS. THE SOIL SHALL BE THOROUGHLY COMPACTED INTO THE SPACE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR ROLLER IN PLACE.
7. FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EXCEEDED A MINIMUM OF 6" INTO THE GROUND. 3/4" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. THE STAKE SHALL BE PROTRUDING 3/4" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. THE STAKE SHALL BE PROTRUDING 3/4" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG.

SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. INSPECT DITCH EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMP'S SHOULD BE THOROUGH, NOT HASTY. INSPECT BMP'S AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION AND REPAIR ANY NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MONITORING ARE NECESSARY TO MAINTAIN BMP'S IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENT IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
5. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION CONSIST WITH THE FOLLOWING: LOGS SHALL BE LEFT IN PLACE AS LONG AS THEY ARE PROTECTED AND THE AREA SERVED BY DISCOURSED AREAS EXIST AFTER REMOVAL. THEY SHALL BE COVERED WITH TOP SOIL, SEEDS SHALL BE MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

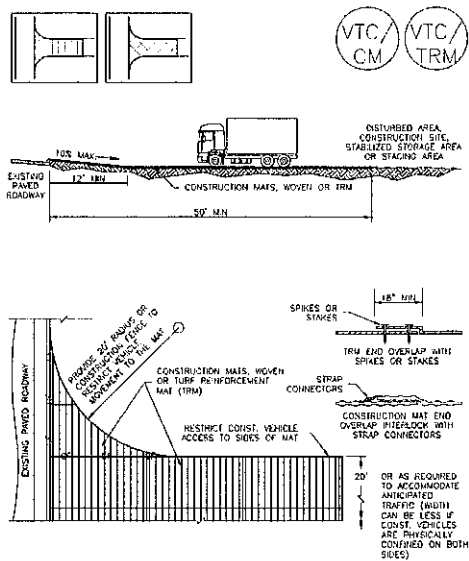
(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, JEFFERSON COUNTY, COLORADO, COLORADO COUNTY, COLORADO, AND CITY OF ANCHORAGE, ALASKA, NOT AVAILABLE IN AUTODODS)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM USFCO STANDARD DETAILS.
CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN
DIFFERENCES ARE NOTED

SCL-6 Urban Drainage and Flood Control District November 2015
 Urban Storm Drainage Criteria Manual Volume 3

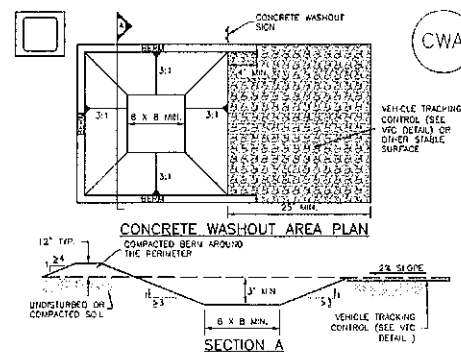
REFERENCE DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
-----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SM-4



VTC-3. VEHICLE TRACKING CONTROL W/ CONSTRUCTION
MAT OR TURF REINFORCEMENT MAT (TRM)

November 2010 Urban Drainage and Flood Control District VTC-5
Urban Storm Drainage Criteria Manual Volume 3

MM-1

CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
 - CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 400' OF ANY WELLS OR DRINKING WATER SOURCES. IF THE CWA IS LOCATED WITHIN 400' OF ANY HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL. MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES ON A FIRM, DRAINAGE GRADING SURFACE AND SLOPED AWAY.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT SHALL BE AT LEAST 8" B" 8" SLOPES. THE CWA SHALL BE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRAPPING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELIMINATED AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRIPS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

November 2010 Urban Drainage and Flood Control District CWA-3
Urban Storm Drainage Criteria Manual Volume 3

SM-4 Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR
-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S)
-TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH,
CONSTRUCTION MAT OR TRM).
2. CONSTRUCTION MAT OR THIS STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE
USED ON SOFT SURFACE PRODUCTS (TYPICALLY RANGING FROM A WEEK TO A MONTH)
WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS
WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND
DISTURBING ACTIVITIES.
5. A 10M-WIDEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED
CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT
SECT. #703, AASHTO #3 GRADE AGGREGATE OF 6" (152.5) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE AFTER ANY ACTIVITY THAT MAY BE CAUSING A STOPPAGE THAT CAUSES MAINTENANCE ENOUGH, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REPLACED OR REGRADED AS NECESSARY TO THE STABILIZED SURFACE/EDGE TO MAINTAIN A CONSISTENT DEPTH.
5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED

NOTE: MANY JURISDICTIONS HAVE BHP DETAILS THAT VARY FROM UDFO STANDARD DETAILS
CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN
DIFFERENCES ARE NOTED

(FACTS ADAPTED FROM CITY OF BROOKFIELD, COLORADO, NOT AVAILABLE IN JUDICIAL)

VTC-6 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

MM-1 Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE AFTER A RAINFALL EVENT, OR AFTER A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTING MEASURES SHOULD BE INITIATED IMMEDIATELY UPON DISCOVERY OF A PROBLEM.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED TO THE WATER TIGHT CONTAINER APPROVED BY THE LOCAL JURISDICTION.
5. CONCRETE WASHOUT WATER, WASTED PILES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSISTANCE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
7. WHEN THE CWA IS REMOVED, COVER THE EXPOSED AREA WITH TOP SOIL, SEED AND MULCH TO PREVENT EROSION. MAINTAIN APPROVED BY THE LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BHP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

CWA-4
Urban Drainage and Flood Control District
November 2010

Urban Storm Drainage Criteria Manual Volume 3

REFERENCE DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
-----------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Exhibit D

Tucson Street Conveyor System Removal				
Item	Quantity	Unit Cost	Unit	Cost
Mobilization	1	\$168,000.00	EA	\$168,000.00
Potholes (Field Determined)	10	\$500.00	EA	\$5,000.00
Permits	1	\$5,000.00	LS	\$5,000.00
Traffic Control Devices	60	\$400.00	Day	\$24,000.00
Traffic Control Temp Signal	2	\$7,100.00	Month	\$14,200.00
Traffic Control Supervision	8	\$1,300.00	Day	\$10,400.00
Traffic Control Inspection	35	\$650.00	Day	\$22,750.00
Traffic Control Flagging	60	\$57.00	HR	\$3,420.00
Remove & Replace Wire Fence	98	\$16.50	LF	\$1,617.00
Erosion Control Management	2	\$4,100.00	Month	\$8,200.00
Orange Construction Fence	1,000	\$3.75	LF	\$3,750.00
Vehicle Tracking Control	10,000	\$0.70	SF	\$7,000.00
Stabilized Staging Area	10,000	\$0.70	SF	\$7,000.00
Silt Fence	1,000	\$2.50	LF	\$2,500.00
Seed & Mulch	3850	\$0.40	SF	\$1,540.00
Erosion Control Blanket	2100	\$4.30	SY	\$9,030.00
Dewatering	1	\$77,500.00	LS	\$77,500.00
Daily Dewatering	20	\$2,500.00	Day	\$50,000.00
Sawcut Existing Asphalt	46	\$6.50	LF	\$299.00
Remove & Replace Asphalt Pavement	5228	\$9.00	SF	\$47,052.00
Remove & Replace Gravel Shoulders	184	\$5.00	SF	\$920.00
Fine Grading	8200	\$0.50	SF	\$4,100.00
Remove Concrete Box Culvert	76	\$1,905.00	LF	\$144,780.00
Remove West CBC Wall	1	\$75,000.00	LS	\$75,000.00
		Subtotal:		\$693,058.00

Tucson Street Conveyor System Removal (cont)

Item	Quantity	Unit Cost	Unit	Cost
Remove East CBC Wall	1	88000	LS	\$88,000.00
Remove Conveyor Equipment	200	330	LF	\$66,000.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
				\$0.00
Subtotal:				\$154,000.00

Cost Total

Tucson Street Conveyor System Removal	\$693,058.00
Tucson Street Conveyor System Removal (cont)	\$154,000.00
-	\$0.00
-	\$0.00
-	\$0.00
-	\$0.00
Subtotal:	\$847,058.00

20% Administration Cost	\$169,411.60
Subtotal:	\$1,016,469.60

5% per year Inflation	\$345,696.88
Grand Total:	\$1,362,166.48

BoCC Public Hearing Date

Construction Completion Date:

Number of Years for Completion:

(Round up to nearest year)

1/7/2025
3/9/2030
6