

Project Name: Arrowhead Sewer Line Phase 1.1 - Construction Manager at Risk
Project No.: 202104.1
Amendment No: 2
Date:

This Amendment to that certain Standard Form Agreement dated June 11, 2024 by and between the City of Glendale and B & F Contracting, Inc. (CM@Risk) for services, deliverables and work related to Project No. 202104.1, Project Name: Arrowhead Sewer Line Phase 1.1 - Construction Manager at Risk, (the "Agreement") is made and entered into effective this day of , 2025.

1. This Amendment #2 establishes a Guaranteed Maximum Price ("GMP") and Construction Phase Fee for Construction Services and incorporates such terms into the Agreement, making the Agreement effective for Construction Phase Services:
 - a. The total fee for Construction Phase Services, which is included in the Guaranteed Maximum Price (GMP) as defined under the Agreement, shall be fixed at Forty-Seven Thousand Ninety-Four and 85/100 Dollars (\$47,094.85).
 - b. The Guaranteed Maximum Price ("GMP") for Construction Services, as defined under the Agreement, shall be Nine Hundred Thirty-Five Thousand Eight Hundred Twenty-Six and 55/100 Dollars (\$935,826.55). [This GMP2 package is for the Arrowhead Waste Activated Sludge \(WAS\) Line Realignment.](#)
 - c. The total compensation under the Agreement, as amended by this Amendment, shall be:

	<u>Pre-Construction Phase</u>	<u>Construction Phase</u>	<u>Total</u>
Original Agreement:	\$143,068.20	\$	\$143,068.20
Previous Amendments:	\$	\$2,329,250.74	\$2,329,250.74
This Amendment:	\$	\$935,826.55	\$935,826.55
Total (including this Amendment):	\$143,068.20	\$3,265,077.29	\$3,408,145.49

2. DELETE the blank template "Exhibit C – Cost of the Work – Schedule of Values" from the Agreement, and ADD "Exhibit C – B & F Contracting, Inc. Cost of the Work – Schedule of Values" dated April 11, 2025 (33 Pages), attached herein.
3. ADD "Exhibit E – Construction Documents necessary to define Scope of Work and deliverables for the Construction Phase Services, including plans, designs, drawings, specifications and other required Contract Documents" dated December 20, 2024 (82 Pages), attached herein.
4. ADD "Exhibit F - Statement of All Clarifications and Assumptions" dated April 11, 2025 (6 Pages), attached herein.
5. ADD "Exhibit G – Schedule of Major Milestones" dated April 11, 2025 (1 Pages), attached herein.
6. All other provisions, terms and conditions of the Agreement shall remain unchanged and in full effect.

(Signature on following page)

IN WITNESS WHEREOF, the Parties hereto have duly executed this Amendment, effective as of the date first written above.

OWNER
City of Glendale
5850 W. Glendale Avenue
Glendale, AZ 85301

CM@RISK
B & F Contracting, Inc.
11011 N. 23rd Avenue
Phoenix, AZ 85029

By: Its Authorized Representative:

By Its Authorized Representative:

Signature

Signature

Printed Name

Joshua Onstott

Printed Name

Title

President

Title

Date

04/29/2025

Date

ATTEST:

Julie K. Bower (SEAL)
City Clerk

APPROVED AS TO FORM:

Michael D. Bailey
City Attorney

DESIGN PROFESSIONAL
Dibble & Associates Consulting Engineers, Inc.
3020 E. Camelback Rd., Ste.201 Ste. 1246
Phoenix, AZ 85016

By Its Authorized Representative:

Signature (Reviewed in accordance with the "Agreement Between Owner and Design Professional" Section 4.8.1.14 of Exhibit A "Scope of Services for the Design Professional")

Ezra M Page
Printed Name

Vice President
Title

05/01/2025
Date

EXHIBIT C
Cost of the Work

(One (1) page - template)
(33 pages - final document to be included with GMP Amendment)

[SEE ATTACHED](#)

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EXHIBIT C: COST OF THE WORK
Arrowhead Phase 1.1
Waste Activate Sludge Line Realignment

GMP2

PROJECT NO. 202104

April 11, 2025

SUBMITTED BY B&F CONTRACTING, INC.

B&F Contracting, Inc., serving as the Construction Manager at Risk, is providing GMP2 for the Waste Activated Sludge Line Realignment Phase of the Arrowhead Phase 1.1 project.

B&F Contracting, Inc.
CONSTRUCTION MANAGER AT RISK AGREEMENT - Exhibit C - Cost of the Work
GMP-002 SCHEDULE OF VALUES
Date: 4/11/2025

DIRECT CONSTRUCTION COST					
Item No.	Item of Work	Quantity	Unit of Measure	Unit Cost	Total GMP
1	General Conditions	2.5	MO	\$ 36,730.86	\$ 91,827.16
2	Mobilization/Demobilization	1	LS	\$ 27,152.00	\$ 27,152.00
3	SWPPP	1	LS	\$ 6,626.08	\$ 6,626.08
4	Potholing	13	EACH	\$ 403.97	\$ 5,251.58
5	Skunk Creek Clearing/Grubbing/Grading/Restoration	1	LS	\$ 18,801.29	\$ 18,801.29
6	Remove & Replace AC Pavement, COG Std Det G-319	515	SY	\$ 118.17	\$ 60,857.59
7	Remove & Replace Concrete Vertical Curb & Gutter To Nearest Joint MAG Std Det 220-1, Type A	45	LF	\$ 68.72	\$ 3,092.24
8	Remove & Reinstall Guardrail (ADOT Std Det C-10.30)	6	LF	\$ 394.19	\$ 2,365.16
9	Remove & Replace Sidewalk To The Nearest Joint, MAG Std Det 230	100	SF	\$ 40.31	\$ 4,030.73
10	Remove And Replace Sidewalk Ramp, MAG Std Det 237-2	1	EACH	\$ 6,858.14	\$ 6,858.14
11	Abandon Existing 6" WAS Line, Fill W/ Grout	1108	LF	\$ 7.45	\$ 8,249.99
12	Furnish & Install 12" Steel Casing	159	LF	\$ 444.51	\$ 70,677.61
13	Furnish & Install 6" HDPE DR11	1137	LF	\$ 200.04	\$ 227,445.91
14	Furnish & Install 2" Combination Air Valve & Drain Line	1	EACH	\$ 13,413.76	\$ 13,413.76
15	Concrete Encasement, MAG STD DTL 404-1, 2, 3	115	LF	\$ 177.43	\$ 20,404.30
16	Connect To Exst 6" WAS Line	2	EACH	\$ 9,566.07	\$ 19,132.14
17	Striping (Min Mob)	1	LS	\$ 2,500.00	\$ 2,500.00
SUBTOTAL DIRECT CONSTRUCTION COST (DCC)					\$ 588,685.68
CONSTRUCTION PHASE FEE					
FEE	Fixed Fee, Equal to 8% of DCC	1	LS	\$ 47,094.85	\$ 47,094.85
SUBTOTAL CONSTRUCTION PHASE FEE					\$ 47,094.85
INDIRECT CONSTRUCTION COSTS (ICC)					
BONDS	CMR Performance and Payment Bonds - Actual Cost, not-to-Exceed 1% of DCC	1	LS	\$ 6,357.81	\$ 6,357.81
	CMR-managed Sub-Contractor Bond Program - Actual Cost not-to- exceed 0% of DCC of covered Sub-Contractors (if applicable)				
INSURANCE	CMR Insurances (Worker's Comp, General Liability, Auto Liability, Umbrella) - Actual Cost, not-to-exceed 1.1% of DCC	1	LS	\$ 7,063.52	\$ 7,063.52
	Builder's Risk - Actual Cost not-to-exceed 0% of DCC				\$ -
	CMR-managed Sub-Contractor Insurance Program - Actual Cost not-to-exceed 0% of DCC of covered Sub-Contractors (if applicable)				
TAXES	Actual Cost, Equal to 5.98% of DCC + Fee + Bond + Insurance	1	LS	\$ 38,822.27	\$ 38,822.27
SUBTOTAL INDIRECT CONSTRUCTION COST (ICC)					\$ 52,243.60
ALLOWANCES & CONTINGENCIES					
	Traffic Control	1	AL	\$ 45,000.00	\$ 45,000.00
	Construction Survey & Layout	1	AL	\$ 12,000.00	\$ 12,000.00
	Pump & Transport Waste Sludge From ARWRF	1	AL	\$ 35,000.00	\$ 35,000.00
	Above Ground Pipe Protection Cage	1	AL	\$ 25,000.00	\$ 25,000.00
	Quality Control Testing	1	AL	\$ 12,500.00	\$ 12,500.00
	Landscape Restoration	1	AL	\$ 4,500.00	\$ 4,500.00
	Flood Control Channel Liner Restoration	1	AL	\$ 45,000.00	\$ 45,000.00
	Owner's Contingency (10%)	1	CONT	\$ 68,802.41	\$ 68,802.41
TOTAL GMP = DCC + FEE + ICC					\$ 935,826.55
ADDITIONAL GMP PROPOSAL REQUIREMENTS AND INFORMATION					
Attach to this Cost of the Work a detailed breakdown of the complete GMP, including General Conditions, using the CM@Risk's own format.					

City of Glendale Exhibit C - Construction Manager at Risk Agreement Cost of the Work (May 15, 2023)



Proposal

Corporate: 11011 N. 23rd Ave. Phoenix, AZ 85029
Office: 623-582-1170 | Fax: 623-582-3761

Tucson: 1904 W Prince Rd. Tucson, 85705 Office:
520-207-8228 | Fax: 520-305-3323

AZ Licenses: ROC089744 A | General Engineering
ROC111282 B-04 | General Engineering Contractor

Cost Detail

Project Name:	202104 WAS Line Realignment			Customer:	City of Glendale
Job Number:	202104.1	Bid Number:	24-3330-00	Billing Address:	5850 West Glendale Ave, Suite 315
Bid As:	Prime Contractor				Glendale, AZ 85301 USA
Estimator:	Travis Monk			Phone:	
Project Address:	67th Ave And Grovers, Glendale, AZ			Contact:	Hugh Alter
Completion Date:					

Pay Items

Description	Quantity	UM	Man Hours	Man Hours per Unit	Unit Direct Cost	Total Direct Cost
D 1 - General Conditions	2.50	MO	632.00	252.80	\$36,730.86	\$91,827.16
D Project Management	2.50	MO	112.00	44.80	\$5,782.78	\$14,456.96
J JI-Project Manager Crew (5.60 DY/MO, 14.00 DY)	2.50	MO	112.00	44.80	\$5,782.78	\$14,456.96
D Project Engineer	2.50	MO	160.00	64.00	\$6,738.56	\$16,846.40
J JI-Project Engineer Crew (8.00 DY/MO, 20.00 DY)	2.50	MO	160.00	64.00	\$6,738.56	\$16,846.40
D Project Superintendent	2.50	MO	360.00	144.00	\$17,219.52	\$43,048.80
J JI-Project Superintendent Crew (18.00 DY/MO, 45.00 DY)	2.50	MO	360.00	144.00	\$17,219.52	\$43,048.80
D Porta Johns	3.00	MO	0.00	0.00	\$850.00	\$2,550.00
S Porta Johns	3.00	MO			\$850.00	\$2,550.00
P ST&S	2,300.00	MH			\$3.00	\$6,900.00
P Job Office Expense	3.00	MO			\$350.00	\$1,050.00
P Field Connectivity	3.00	MO			\$275.00	\$825.00
P Yard Location	3.00	MO			\$1,500.00	\$4,500.00
P Connex	3.00	MO			\$550.00	\$1,650.00
D 2 - Mobilization/Demobilization	1.00	LS	60.00	60.00	\$27,152.00	\$27,152.00
D B&F Equipment, Materials, Etc. Mobilization	1.00	LS	60.00	60.00	\$9,692.00	\$9,692.00
J Large Transport - Mob/Demob (2.00 TRIP/DY, 7.00 DY)	14.00	TRIP	56.00	4.00	\$657.60	\$9,206.40
J Small Transport (4.00 TRIP/DY, 0.50 DY)	2.00	TRIP	4.00	2.00	\$242.80	\$485.60
S Shoring & Plates Delivery/Pickup	8.00	TRIP			\$350.00	\$2,800.00
D Project Signs	2.00	EACH	0.00	0.00	\$665.00	\$1,330.00
S Furnish Signs	2.00	EACH			\$250.00	\$500.00
S Labor For Delivery & Initial Setting Of Signs	4.00	HR			\$95.00	\$380.00
S Spring Stand Rental 3 Each X 30 Days	60.00	DY			\$7.50	\$450.00
D Construction Water	750,000.00	GAL	0.00	0.00	\$0.01	\$10,000.00
S Water Meter	1.00	EACH			\$1,500.00	\$1,500.00
S Backflow Preventer	1.00	EACH			\$1,000.00	\$1,000.00
S Construction Water	750,000.00	GAL			\$0.01	\$7,500.00
S Dust Permit	1.00	EACH			\$1,080.00	\$1,080.00

Description		Quantity	UM	Man Hours	Man Hours per Unit	Unit Direct Cost	Total Direct Cost
(Item 2 - Mobilization/Demobilization continued)							
	Temp Fence	3.00	MO	0.00	0.00	\$750.00	\$2,250.00
	Temp Fance	3.00	MO			\$750.00	\$2,250.00
	3 - SWPPP	1.00	LS	32.00	32.00	\$6,626.08	\$6,626.08
	SWPPP Permit & Inspection (1 MO)	1.00	MO			\$1,500.00	\$1,500.00
	Sweeping	16.00	HR			\$140.00	\$2,240.00
	SWPPP Maintenance	1.00	MO	32.00	32.00	\$2,886.08	\$2,886.08
	Maintenance Crew (EACH) (1.00 MO/DY, 1.00 DY)	1.00	MO	32.00	32.00	\$2,886.08	\$2,886.08
	4 - Potholing	13.00	EACH	40.00	3.08	\$403.97	\$5,251.58
	Pothole Crew	13.00	EACH	40.00	3.08	\$403.97	\$5,251.58
	GC-Combo Hydro Truck Crew (6.50 EACH/DY, 2.00 DY)	13.00	EACH	40.00	3.08	\$403.97	\$5,251.58
	5 - Skunk Creek Clearing/Grubbing/Grading/Restoration	1.00	LS	192.00	192.00	\$18,801.29	\$18,801.29
	Clearing/Grubbing/Grading/Restoration	1.00	LS	192.00	192.00	\$18,801.29	\$18,801.29
	Clearing/Grubbing Crew (0.25 LS/DY, 4.00 DY)	1.00	LS	192.00	192.00	\$17,335.04	\$17,335.04
	Aggregate - ABC MAG Spec	75.00	TON			\$19.55	\$1,466.25
	6 - Remove & Replace AC Pavement, COG Std Det G-319	515.00	SY	36.00	0.07	\$118.17	\$60,857.59
	Sawcut Asphalt	1,425.00	LF	36.00	0.03	\$2.62	\$3,728.64
	CP-Sawcutting Small Crew (950.00 LF/DY, 1.50 DY)	1,425.00	LF	36.00	0.03	\$2.62	\$3,728.64
	Asphalt Replacement	515.00	SY			\$110.93	\$57,128.95
	7 - Remove & Replace Concrete Vertical Curb & Gutter To Nearest Joint MAG Std Det 220-1, Type A	45.00	LF	25.10	0.56	\$68.72	\$3,092.24
	Curb & Gutter Removal	45.00	LF	5.10	0.11	\$11.78	\$530.20
	CP-Sawcutting Small Crew (400.00 LF/DY, 0.11 DY)	45.00	LF	2.70	0.06	\$5.24	\$236.02
	CP-Concrete Demo Curb & Gutter Crew (900.00 LF/DY, 0.05 DY)	45.00	LF	2.40	0.05	\$4.87	\$219.18
	Dump Fees	1.00	LOAD			\$75.00	\$75.00
	Install New Concrete	45.00	LF	20.00	0.44	\$56.93	\$2,562.04
	CP-Concrete Curb & Gutter Crew (90.00 LF/DY, 0.50 DY)	45.00	LF	20.00	0.44	\$37.53	\$1,688.84
	Ready Mix Concrete - MAG A 3000	4.00	CY			\$155.80	\$623.20
	Concrete - Short Load Fee	1.00	EACH			\$250.00	\$250.00
	8 - Remove & Reinstall Guardrail (ADOT Std Det C-10.30)	6.00	LF	30.00	5.00	\$394.19	\$2,365.16
	Guardrail Removal	6.00	LF	10.00	1.67	\$119.45	\$716.72
	Demo Crew (24.00 LF/DY, 0.25 DY)	6.00	LF	10.00	1.67	\$119.45	\$716.72
	Guardrail Replacement	6.00	LF	20.00	3.33	\$274.74	\$1,648.44
	Guardrail Install Crew (12.00 LF/DY, 0.50 DY)	6.00	LF	20.00	3.33	\$238.91	\$1,433.44
	6" X 8" Timber Posts	5.00	EACH			\$43.00	\$215.00
	9 - Remove & Replace Sidewalk To The Nearest Joint, MAG Std Det 230	100.00	SF	36.40	0.36	\$40.31	\$4,030.73
	Sidewalk Removal	100.00	SF	12.40	0.12	\$11.84	\$1,183.97
	CP-Sawcutting Small Crew (400.00 SF/DY, 0.25 DY)	100.00	SF	6.00	0.06	\$5.24	\$524.48

Description		Quantity	UM	Man Hours	Man Hours per Unit	Unit Direct Cost	Total Direct Cost
(Item 9 - Remove & Replace Sidewalk To The Nearest Joint, MAG Std Det 230 continued)							
	CP-Concrete Demo Sidewalk Crew (750.00 SF/DY, 0.13 DY)	100.00	SF	6.40	0.06	\$5.84	\$584.49
	Dump Fees	1.00	LOAD			\$75.00	\$75.00
	Install New Sidewalk	100.00	SF	24.00	0.24	\$28.47	\$2,846.76
	CP-Concrete Sidewalk Crew (200.00 SF/DY, 0.50 DY)	100.00	SF	24.00	0.24	\$21.29	\$2,129.36
	Ready Mix Concrete - MAG A 3000	3.00	CY			\$155.80	\$467.40
	Concrete - Short Load Fee	1.00	EACH			\$250.00	\$250.00
	10 - Remove And Replace Sidewalk Ramp, MAG Std Det 237-2	1.00	EACH	63.60	63.60	\$6,858.14	\$6,858.14
	Sidewalk Ramp Removal	1.00	EACH	15.60	15.60	\$1,476.22	\$1,476.22
	CP-Sawcutting Small Crew (4.00 EACH/DY, 0.25 DY)	1.00	EACH	6.00	6.00	\$524.48	\$524.48
	CP-Concrete Demo Sidewalk Crew (5.00 EACH/DY, 0.20 DY)	1.00	EACH	9.60	9.60	\$876.74	\$876.74
	Dump Fees	1.00	LOAD			\$75.00	\$75.00
	Replace Sidewalk Ramp, MAG STD DTL 237-2	1.00	EACH	48.00	48.00	\$5,381.92	\$5,381.92
	CP-Concrete Ramp Crew (1.00 EACH/DY, 1.00 DY)	1.00	EACH	48.00	48.00	\$4,258.72	\$4,258.72
	Ready Mix Concrete - MAG A 3000	4.00	CY			\$155.80	\$623.20
	Concrete - Short Load Fee	1.00	EACH			\$250.00	\$250.00
	ADA Detectable Warning Domes	1.00	EACH			\$250.00	\$250.00
	11 - Abandon Existing 6" WAS Line, Fill W/ Grout	1,108.00	LF	48.00	0.04	\$7.45	\$8,249.99
	Grout Fill Existing Line	1,108.00	LF	48.00	0.04	\$7.45	\$8,249.99
	Grout Fill Crew (1,108.00 LF/DY, 1.00 DY)	1,108.00	LF	48.00	0.04	\$4.77	\$5,288.24
	Pumpable Grout Fill	15.75	CY			\$185.00	\$2,913.75
	Cement - Concrete Mix 60#	8.00	BAG			\$6.00	\$48.00
	12 - Furnish & Install 12" Steel Casing	159.00	LF	408.00	2.57	\$444.51	\$70,677.61
	Concrete Scanning & Marking Rebar Layout	159.00	LF	72.00	0.45	\$86.82	\$13,804.08
	Concrete Scanning Crew (53.00 LF/DY, 3.00 DY)	159.00	LF	72.00	0.45	\$52.86	\$8,404.08
	Concrete Scanning Subcontractors	3.00	DY			\$1,800.00	\$5,400.00
	Install Pipe Hangers	17.00	EACH	160.00	9.41	\$863.13	\$14,673.28
	Concrete Embedment Crew (4.25 EACH/DY, 4.00 DY)	17.00	EACH	160.00	9.41	\$863.13	\$14,673.28
	String & Weld Casing	159.00	LF	48.00	0.30	\$49.16	\$7,816.32
	String & Weld Casing Crew (159.00 EACH/DY, 1.00 DY)	159.00	EACH	48.00	0.30	\$36.08	\$5,736.32
	PPS Casing Welds	1.00	DY			\$2,080.00	\$2,080.00
	Mount Steel Casing	159.00	LF	128.00	0.81	\$90.52	\$14,392.96
	Mount Steel Casing (79.50 EACH/DY, 2.00 DY)	159.00	EACH	128.00	0.81	\$90.52	\$14,392.96
	Material Buy	1.00	LS	0.00	0.00	\$19,990.97	\$19,990.97
	Steel Casing, Spacers, Link Seal, Etc. Material Buy	1.00	LS			\$9,706.05	\$9,706.05
	Pipe Hanger Hardware & Epoxy	1.00	LS			\$10,284.92	\$10,284.92
	13 - Furnish & Install 6" HDPE DR11	1,137.00	LF	1,136.00	1.00	\$200.04	\$227,445.91
	Dig, Lay, & Backfill 6" HDPE	937.00	LF	816.00	0.87	\$105.49	\$98,840.44
	WL-HDPE Smooth 6in Art Medium Diameter Crew (93.70 LF/DY, 10.00 DY)	937.00	LF	720.00	0.77	\$88.92	\$83,317.60
	RH-Bypass Fusion (312.33 LF/DY, 3.00 DY)	937.00	LF	96.00	0.10	\$9.76	\$9,147.84

Description	Quantity	UM	Man Hours	Man Hours per Unit	Unit Direct Cost	Total Direct Cost
(Item 13 - Furnish & Install 6" HDPE DR11 continued)						
 Dump Fees	85.00	LOAD			\$75.00	\$6,375.00
 Realignments (Horizontal/Vertical)	5.00	EACH	176.00	35.20	\$3,521.76	\$17,608.80
 WL-HDPE Smooth 6in Art Medium Diameter Crew (2.50 EACH/DY, 2.00 DY)	5.00	EACH	144.00	28.80	\$2,911.90	\$14,559.52
 RH-Bypass Fusion Crew (5.00 EACH/DY, 1.00 DY)	5.00	EACH	32.00	6.40	\$609.86	\$3,049.28
 Fuse HDPE & Install In Casing / Assemble & Fuse Fittings And Above Ground Piping	200.00	LF	64.00	0.32	\$30.49	\$6,098.56
 RH-Bypass Fusion <12in Crew (100.00 LF/DY, 2.00 DY)	200.00	LF	64.00	0.32	\$30.49	\$6,098.56
 Hydro Excavate Near Bridge/Concrete Walls	2.00	DY	40.00	20.00	\$2,625.79	\$5,251.58
 GC-Combo Hydro Truck Crew (1.00 DY/DY, 2.00 DY)	2.00	DY	40.00	20.00	\$2,625.79	\$5,251.58
 Hydrostatic Pressure Test	1.00	LS	40.00	40.00	\$3,589.52	\$3,589.52
 Pressure Test Crew (1.00 DY/DY, 1.00 DY)	1.00	DY	40.00	40.00	\$3,589.52	\$3,589.52
 Material Buy	1.00	LS	0.00	0.00	\$96,057.01	\$96,057.01
 Aggregate - ABC MAG Spec	344.30	TON			\$19.55	\$6,731.07
 Ready Mix - Slurry ABC Slurry 1/2 Sack	664.65	CY			\$112.72	\$74,919.35
 Pipe Material Buy	1.00	LS			\$13,641.60	\$13,641.60
 Pull Box	1.00	EACH			\$765.00	\$765.00
 14 - Furnish & Install 2" Combination Air Valve & Drain Line	1.00	EACH	60.00	60.00	\$13,413.76	\$13,413.76
 Install ARV & Drain Line	1.00	EACH	60.00	60.00	\$13,413.76	\$13,413.76
 Air Release Valve Crew (0.67 EACH/DY, 1.50 DY)	1.00	EACH	60.00	60.00	\$4,900.68	\$4,900.68
 ARV Assembly & Drain Line	1.00	EACH			\$8,205.17	\$8,205.17
 Aggregate - ABC MAG Spec	15.75	TON			\$19.55	\$307.91
 15 - Concrete Encasement, MAG STD DTL 404-1, 2, 3	115.00	LF	172.00	1.50	\$177.43	\$20,404.30
 Concrete Encasement	115.00	LF	160.00	1.39	\$163.95	\$18,853.74
 SL-Concrete Encasement Crew (28.75 LF/DY, 4.00 DY)	115.00	LF	160.00	1.39	\$113.64	\$13,068.48
 Ready Mix Concrete - MAG C 2000	33.00	CY			\$155.80	\$5,141.40
 Rebar - # 4 (1/2in) 20ft	42.00	EACH			\$15.33	\$643.86
 Utility Adjustment/Valve Collar	1.00	EACH	12.00	12.00	\$1,550.56	\$1,550.56
 Utility Adjust Crew (2.00 EACH/DY, 0.50 DY)	1.00	EACH	12.00	12.00	\$1,144.76	\$1,144.76
 Ready Mix Concrete - MAG AA 4000	1.00	CY			\$155.80	\$155.80
 Concrete - Short Load Fee	1.00	EACH			\$250.00	\$250.00
 16 - Connect To Exst 6" WAS Line	2.00	EACH	164.00	82.00	\$9,566.07	\$19,132.14
 MOPO/Existing WAS Line Tie-ins	2.00	EACH	144.00	72.00	\$8,253.18	\$16,506.35
 WL-HDPE Smooth 6in Art Medium Diameter Crew (1.00 EACH/DY, 2.00 DY)	2.00	EACH	112.00	56.00	\$4,710.48	\$9,420.96
 RH-Bypass Fusion <12in Crew (2.00 EACH/DY, 1.00 DY)	2.00	EACH	32.00	16.00	\$1,524.64	\$3,049.28
 Tie-in Couplings	1.00	LS			\$1,268.06	\$1,268.06
 Aggregate - ABC MAG Spec	8.40	TON			\$19.55	\$164.22
 Ready Mix - Slurry ABC Slurry 1/2 Sack	23.10	CY			\$112.72	\$2,603.83
 Soft Dig/Expose Existing WAS Line @ Tie-ins	1.00	DY	20.00	20.00	\$2,625.79	\$2,625.79
 GC-Combo Hydro Truck Crew (1.00 DY/DY, 1.00 DY)	1.00	DY	20.00	20.00	\$2,625.79	\$2,625.79
 17 - Striping (Min Mob)	1.00	LS	0.00	0.00	\$2,500.00	\$2,500.00

Description	Quantity	UM	Man Hours	Man Hours per Unit	Unit Direct Cost	Total Direct Cost
(Item 17 - Striping (Min Mob) continued)						
 Cross Walk Replacement (Replace Impacted Striping Only/No Additional Oblit Included)	1.00	LS			\$2,500.00	\$2,500.00

Direct Cost Totals

	Amount	Percent of Direct Cost
Labor:	\$183,420.78	31.16%
Equipment Owned:	\$134,147.75	22.79%
Equipment Rented:	\$16,588.16	2.82%
Materials Owned:	\$0.00	0.00%
Materials Purchased:	\$142,145.04	24.15%
Subcontracted:	\$90,858.95	15.43%
Trucking Owned:	\$0.00	0.00%
Trucking Hired:	\$0.00	0.00%
Miscellaneous:	\$6,600.00	1.12%
Plug:	\$14,925.00	2.54%
Direct Cost:	\$588,685.68	



Proposal

Corporate: 11011 N. 23rd Ave. Phoenix, AZ 85029
Office: 623-582-1170 | Fax: 623-582-3761

Tucson: 1904 W Prince Rd. Tucson, 85705 Office:
520-207-8228 | Fax: 520-305-3323

AZ Licenses: ROC089744 A | General Engineering
ROC111282 B-04 | General Engineering Contractor

Man Hours Report - Task

Project Name:	202104 WAS Line Realignment			Customer:	City of Glendale
Job Number:	202104.1	Bid Number:	24-3330-00	Billing Address:	5850 West Glendale Ave, Suite 315
Bid As:	Prime Contractor				Glendale, AZ 85301 USA
Estimator:	Travis Monk			Phone:	
Project Address:	67th Ave And Grovers, Glendale, AZ			Contact:	Hugh Alter
Completion Date:					

Pay Items

Description	Cost Method	Bid Quantity	UM	Man Hours	Direct Cost/MH	Unit Direct Cost	Total Direct Cost
1 - General Conditions	Detail	2.50	MO	632.00	\$145.30	\$36,730.86	\$91,827.16
Project Management	Detail	2.50	MO	112.00	\$129.08	\$5,782.78	\$14,456.96
Project Engineer	Detail	2.50	MO	160.00	\$105.29	\$6,738.56	\$16,846.40
Project Superintendent	Detail	2.50	MO	360.00	\$119.58	\$17,219.52	\$43,048.80
Porta Johns	Detail	3.00	MO	0.00	\$0.00	\$850.00	\$2,550.00
ST&S	Plug	2,300.00	MH	0.00	\$0.00	\$3.00	\$6,900.00
Job Office Expense	Plug	3.00	MO	0.00	\$0.00	\$350.00	\$1,050.00
Field Connectivity	Plug	3.00	MO	0.00	\$0.00	\$275.00	\$825.00
Yard Location	Plug	3.00	MO	0.00	\$0.00	\$1,500.00	\$4,500.00
Connex	Plug	3.00	MO	0.00	\$0.00	\$550.00	\$1,650.00
Porta Johns	Sub.	3.00	MO	0.00	\$0.00	\$850.00	\$2,550.00
2 - Mobilization/Demobilization	Detail	1.00	LS	60.00	\$452.53	\$27,152.00	\$27,152.00
B&F Equipment, Materials, Etc. Mobilization	Detail	1.00	LS	60.00	\$161.53	\$9,692.00	\$9,692.00
Shoring & Plates Delivery/Pickup	Sub.	8.00	TRIP	0.00	\$0.00	\$350.00	\$2,800.00
Project Signs	Detail	2.00	EACH	0.00	\$0.00	\$665.00	\$1,330.00
Construction Water	Detail	750,000.00	GAL	0.00	\$0.00	\$0.01	\$10,000.00
Dust Permit	Sub.	1.00	EACH	0.00	\$0.00	\$1,080.00	\$1,080.00
Temp Fence	Detail	3.00	MO	0.00	\$0.00	\$750.00	\$2,250.00
Furnish Signs	Sub.	2.00	EACH	0.00	\$0.00	\$250.00	\$500.00
Labor For Delivery & Initial Setting Of Signs	Sub.	4.00	HR	0.00	\$0.00	\$95.00	\$380.00
Spring Stand Rental 3 Each X 30 Days	Sub.	60.00	DY	0.00	\$0.00	\$7.50	\$450.00
Water Meter	Sub.	1.00	EACH	0.00	\$0.00	\$1,500.00	\$1,500.00
Backflow Preventer	Sub.	1.00	EACH	0.00	\$0.00	\$1,000.00	\$1,000.00
Construction Water	Sub.	750,000.00	GAL	0.00	\$0.00	\$0.01	\$7,500.00
Temp Fence	Sub.	3.00	MO	0.00	\$0.00	\$750.00	\$2,250.00
3 - SWPPP	Detail	1.00	LS	32.00	\$207.07	\$6,626.08	\$6,626.08
SWPPP Permit & Inspection (1 MO)	Sub.	1.00	MO	0.00	\$0.00	\$1,500.00	\$1,500.00
Sweeping	Sub.	16.00	HR	0.00	\$0.00	\$140.00	\$2,240.00
SWPPP Maintenance	Detail	1.00	MO	32.00	\$90.19	\$2,886.08	\$2,886.08
4 - Potholing	Detail	13.00	EACH	40.00	\$131.29	\$403.97	\$5,251.58
Pothole Crew	Detail	13.00	EACH	40.00	\$131.29	\$403.97	\$5,251.58

Description	Cost Method	Bid Quantity	UM	Man Hours	Direct Cost/MH	Unit Direct Cost	Total Direct Cost
<i>(5 - Skunk Creek Clearing/Grubbing/Grading/Restoration continued)</i>							
5 - Skunk Creek Clearing/Grubbing/Grading/Restoration	Detail	1.00	LS	192.00	\$97.92	\$18,801.29	\$18,801.29
Clearing/Grubbing/Grading/Restoration	Detail	1.00	LS	192.00	\$97.92	\$18,801.29	\$18,801.29
6 - Remove & Replace AC Pavement, COG Std Det G-319	Detail	515.00	SY	36.00	\$1,690.49	\$118.17	\$60,857.59
Sawcut Asphalt	Detail	1,425.00	LF	36.00	\$103.57	\$2.62	\$3,728.64
Asphalt Replacement	Sub.	515.00	SY	0.00	\$0.00	\$110.93	\$57,128.95
7 - Remove & Replace Concrete Vertical Curb & Gutter To Nearest Joint MAG Std Det 220-1, Type A	Detail	45.00	LF	25.10	\$123.20	\$68.72	\$3,092.24
Curb & Gutter Removal	Detail	45.00	LF	5.10	\$103.96	\$11.78	\$530.20
Install New Concrete	Detail	45.00	LF	20.00	\$128.10	\$56.93	\$2,562.04
8 - Remove & Reinstall Guardrail (ADOT Std Det C-10.30)	Detail	6.00	LF	30.00	\$78.84	\$394.19	\$2,365.16
Guardrail Removal	Detail	6.00	LF	10.00	\$71.67	\$119.45	\$716.72
Guardrail Replacement	Detail	6.00	LF	20.00	\$82.42	\$274.74	\$1,648.44
9 - Remove & Replace Sidewalk To The Nearest Joint, MAG Std Det 230	Detail	100.00	SF	36.40	\$110.73	\$40.31	\$4,030.73
Sidewalk Removal	Detail	100.00	SF	12.40	\$95.48	\$11.84	\$1,183.97
Install New Sidewalk	Detail	100.00	SF	24.00	\$118.62	\$28.47	\$2,846.76
10 - Remove And Replace Sidewalk Ramp, MAG Std Det 237-2	Detail	1.00	EACH	63.60	\$107.83	\$6,858.14	\$6,858.14
Sidewalk Ramp Removal	Detail	1.00	EACH	15.60	\$94.63	\$1,476.22	\$1,476.22
Replace Sidewalk Ramp, MAG STD DTL 237-2	Detail	1.00	EACH	48.00	\$112.12	\$5,381.92	\$5,381.92
11 - Abandon Existing 6" WAS Line, Fill W/ Grout	Detail	1,108.00	LF	48.00	\$171.87	\$7.45	\$8,249.99
Grout Fill Existing Line	Detail	1,108.00	LF	48.00	\$171.87	\$7.45	\$8,249.99
12 - Furnish & Install 12" Steel Casing	Detail	159.00	LF	408.00	\$173.23	\$444.51	\$70,677.61
Concrete Scanning & Marking Rebar Layout	Detail	159.00	LF	72.00	\$191.72	\$86.82	\$13,804.08
Install Pipe Hangers	Detail	17.00	EACH	160.00	\$91.71	\$863.13	\$14,673.28
String & Weld Casing	Detail	159.00	LF	48.00	\$162.84	\$49.16	\$7,816.32
Mount Steel Casing	Detail	159.00	LF	128.00	\$112.45	\$90.52	\$14,392.96
Material Buy	Detail	1.00	LS	0.00	\$0.00	\$19,990.97	\$19,990.97
Concrete Scanning Subcontractors	Sub.	3.00	DY	0.00	\$0.00	\$1,800.00	\$5,400.00
PPS Casing Welds	Sub.	1.00	DY	0.00	\$0.00	\$2,080.00	\$2,080.00
13 - Furnish & Install 6" HDPE DR11	Detail	1,137.00	LF	1,136.00	\$200.22	\$200.04	\$227,445.91
Dig, Lay, & Backfill 6" HDPE	Detail	937.00	LF	816.00	\$121.13	\$105.49	\$98,840.44
Realignments (Horizontal/Vertical)	Detail	5.00	EACH	176.00	\$100.05	\$3,521.76	\$17,608.80
Fuse HDPE & Install In Casing / Assemble & Fuse Fittings And Above Ground Piping	Detail	200.00	LF	64.00	\$95.29	\$30.49	\$6,098.56
Hydro Excavate Near Bridge/Concrete Walls	Detail	2.00	DY	40.00	\$131.29	\$2,625.79	\$5,251.58
Hydrostatic Pressure Test	Detail	1.00	LS	40.00	\$89.74	\$3,589.52	\$3,589.52
Material Buy	Detail	1.00	LS	0.00	\$0.00	\$96,057.01	\$96,057.01
14 - Furnish & Install 2" Combination Air Valve & Drain Line	Detail	1.00	EACH	60.00	\$223.56	\$13,413.76	\$13,413.76
Install ARV & Drain Line	Detail	1.00	EACH	60.00	\$223.56	\$13,413.76	\$13,413.76

Description	Cost Method	Bid Quantity	UM	Man Hours	Direct Cost/MH	Unit Direct Cost	Total Direct Cost
<i>(15 - Concrete Encasement, MAG STD DTL 404-1, 2, 3 continued)</i>							
15 - Concrete Encasement, MAG STD DTL 404-1, 2, 3	Detail	115.00	LF	172.00	\$118.63	\$177.43	\$20,404.30
Concrete Encasement	Detail	115.00	LF	160.00	\$117.84	\$163.95	\$18,853.74
Utility Adjustment/Valve Collar	Detail	1.00	EACH	12.00	\$129.21	\$1,550.56	\$1,550.56
16 - Connect To Exst 6" WAS Line	Detail	2.00	EACH	164.00	\$116.66	\$9,566.07	\$19,132.14
MOPO/Existing WAS Line Tie-ins	Detail	2.00	EACH	144.00	\$114.63	\$8,253.18	\$16,506.35
Soft Dig/Expose Existing WAS Line @ Tie-ins	Detail	1.00	DY	20.00	\$131.29	\$2,625.79	\$2,625.79
17 - Striping (Min Mob)	Detail	1.00	LS	0.00	\$0.00	\$2,500.00	\$2,500.00
Cross Walk Replacement (Replace Impacted Striping Only/No Additional Oblit Included)	Sub.	1.00	LS	0.00	\$0.00	\$2,500.00	\$2,500.00
Pay Item Totals:				3,135.10	\$187.77		\$588,685.68
Summary Totals:				3,135.10	\$187.77		\$588,685.68



SUBCONTRACTOR & SUPPLIER SOLICITATIONS & SELECTIONS

SUBCONTRACTOR / SUPPLIER	SELECTED	BID RESPONSE	PRICE	SOLICITATION/SELECTION NOTES
Pipe Material Buy				
Ferguson	X	Yes	\$ 26,762.25	Selected as lowest bidder.
Fullerform		Yes	\$ 29,805.36	
ISCO		Yes		Incomplete quote
Asphalt Replacement				
YSC	X	Yes	\$110.93/SY	Selected as lowest bidder.
Vortex		Yes	\$144.68/SY	
P1 Paving		No		
Ready Mix Materials				
Arizona Materials	X	Yes	\$ 81,384.91	Averaged lowest bidders due to scheduling
Desert Ready Mix	X	Yes	\$ 81,973.75	Averaged lowest bidders due to scheduling
Martin Marietta		Yes	\$ 82,000.00	
MAG Spec ABC				
Arizona Materials	X	Yes	\$19.55/Ton	Average top Two
Vulcan Materials Company		Yes	\$22.85/Ton	
Insearch Corp		No		
Steel Casing Welding				
Professional Piping Systems	X	Yes	\$ 2,080.00	

April 9, 2025

To our valued customers,

The tariff landscape is constantly evolving, and the implementation schedule is fast-paced. Ferguson relies on our manufacturer partners to notify us of price increases, which we immediately implement on the announcement effective date. These increases vary significantly based on each manufacturers' unique business.

While we cannot predict the exact impacts of every tariff, our general guidance on how to best navigate tariffs remains consistent: **It is critical that customers work closely with their Ferguson Sales associate to discuss product needs, understand pricing impact, and make informed decisions regarding each of your individual projects.** Together, we can determine the best course of action to mitigate job disruption.

Important things to know:

- Pricing is extremely volatile and changes day by day, hour by hour. All prices are subject to change at any time based on evolving market conditions.
- We will continue to communicate price adjustments and provide competitive quotes based on current market conditions, though these quotes may change due to manufacturer price increases.
- Regularly review open bids and quotes with your Sales associate so you know how these pricing changes might impact your project.

We appreciate your loyalty and understanding as we manage this changing business environment. If you have questions concerning upcoming jobs or existing quotes, please speak with your Ferguson Sales associate to help plan for your business needs.

Thank you for your continued support and partnership.

Ferguson

Tariff Timeline

- **Apr. 9, 2025:** Effective date for additional reciprocal varied tariffs from other countries; tariffs on goods from China to increase to 104%.
- **Apr. 5, 2025:** Effective date for baseline universal tariffs of 10%.
- **Mar. 12, 2025:** Effective date of 25% tariffs on all steel and aluminum imports.
- **Mar. 4, 2025:** Effective date of 25% tariffs on Mexico and Canada imports plus an added 10% on Chinese imports, bringing the total tariff to 20%.
 - Amendment: Goods that fall under the U.S.-Mexico-Canada Agreement (USMCA) will be exempt from Mexico until April.
- **Feb. 4, 2025:** Effective date of 10% tariffs on Chinese imports.
- **Feb. 1, 2025:** Both Mexico and Canada tariffs are delayed.



FERGUSON WATERWORKS (3083)
1324 S 3RD ST SUITE 140
PHOENIX, AZ 85004-2725

Phone: 602-495-8420
Fax: 602-262-4276

Deliver To: EXP 12/2020 EM ECMS
From: Dustin Marcus
dustin.marcus@ferguson.com

Comments:

11:12:59 APR 04 2025

Page 1 of 4

FERGUSON WATERWORKS #3083

Price Quotation

Phone: 602-495-8420

Fax: 602-262-4276

Bid No: B442701
Bid Date: 01/10/25
Quoted By: KL

Cust Phone: 623-582-1170
Terms: NET 10TH PROX

Customer: B & F CONTRACTING INC
11011 N 23RD AVE
PHOENIX, AZ 85029-4807

Ship To: SKUNK CREEK TRAIL & NORTH 6
GLENDALE, AZ 85308

Cust PO#:

Job Name: ARROWHEAD WAS

Item	Description	Quantity	Net Price	UM	Total

	REVISED BY DUSTIN ON 4.3				

	WASTE ACTIVATED SLUDGE LINE GLENDALE, AZ				

	QUOTED PER CUSTOMER LIST QUOTED PER GLENDALE SPECS				

PT-QUOTE-NOTES	BID NOTES FOR CUSTOMER ***** QUOTE VALID FOR 30-DAYS FROM TIME QUOTE WAS RECEIVED - MAY VARY ON SPECIAL MATERIAL. ***** SERVICE BRASS & DI PIPE HAS LONGER LEAD TIMES THAN NORMAL. GET WITH YOUR SALESMAN FOR CURRENT LEAD TIMES AT TIME OF ORDER. ***** "Any reference to or incorporation of Executive Order 14042 and/or the EO-implementing Federal clauses (FAR 52.223 -99 and/or DFARS 252.223-7999) is expressly rejected by Seller and shall not apply as Seller is a materials supplier and therefore exempt under the Executive Order." ***** ----	1		EA	
	PT-QUOTE-NOTES				0.00



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=3083&on=1079>

Fax: 602-262-4276

11:12:59 APR 04 2025

Reference No: B442701

Item	Description	Quantity	Net Price	UM	Total
PT-COPPERTERMS	***** DUE TO COPPER BEING A COMMODITY, QUOTE IS SUBJECT TO REPRICE AT TIME OF SHIPMENT. *****	1		EA	
	PT-COPPERTERMS				0.00
	STORM MATERIAL				
	6" DR11 HDPE				
PEI11AU40	6X40 IPS DR11 HDPE PIPE	1160	737.500	C	8555.00
TW12SLDUG500	12GA SLD COP UF WIRE GREE 500	1500	309.552	M	464.33
PSD3105G1054	*TNA 3X1000 UG DET STORM DRN GREE	1	76.500	EA	76.50
	6" DR11 SUBTOTAL				9095.83
	6" DR11 FITTINGS				
PEI11F22U	6 IPS PC160 DR11 FAB 2PC 22-1/2	1	81.120	EA	81.12
PEI11B4U	6 IPS PC200 DR11 45	10	36.080	EA	360.80
PEI11B9U	6 IPS PC200 DR11 90	5	40.334	EA	201.67
	6" DR11 FITTINGS				643.59
	6" HDPE (DR11) VERTICAL REALIGNMENT				
PEI11B4U	6 IPS PC200 DR11 45	4	36.080	EA	144.32
	6" VERTICAL SUBTOTAL				144.32
	12" STEEL CASING W/ CASING SPACERS AND END SEALS				
DSCP37512	12 X .375 STL CASING PIPE	168	3694.446	C	6206.67
PEI11AU40	6X40 IPS DR11 HDPE PIPE	160	10.556	C	16.89
	ALLOW 5-7 ARO				
SP-CCCS080663	SPACER SS 8IN WIDE 6IN	28	103.053	EA	2885.48
SP-CCES0106631275	END SEAL 6 X 12	2	79.455	EA	158.91
	STEEL CASING SUBTOTAL				9267.95



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Fax: 602-262-4276

11:12:59 APR 04 2025

Reference No: B442701

Item	Description	Quantity	Net Price	UM	Total
	STORM MATERIAL TOTAL				19151.69

	=====				
	DOM. WATER MATERIAL				
	=====				

	2" ARV				
	PER DET 3 DWG D1				

F202BS690IP7	6X2 IP DBL SS STRP BRS SDL DI/PVC	1	186.097	EA	186.10
IS46LNKUE	2X6 SS S40 316L NIP	1	30.230	EA	30.23
FNW100AK	2 SS 1000# THRD 1PC RP BV LL	1	163.286	EA	163.29
IS46LNKCLE	2XCLOSE SS S40 316L NIP	1	10.820	EA	10.82
SP-D9545351	2" SGL BDY SEWAGE COMBO AIR VLV	1	4910.830	EA	4910.83
	SYLE: ASU- SINGLE BODY SEWAGE COMBO				
	AIR VALVE				
	SIZE: 2" (50MM)				
	BODY STYLE: SCAV- CLEAN OR WASTEWAT				
	ER SERVICE 150PSI				
	END CONNECTION: T1- THRD INLET ;NPT				
	UP TO 300PSI				
	BODY MATERILA: S2- 316SS				

	LEAD TIME: 12WEEKS				
SP-M1LATCHCAGE	M1 ENCLOSURE 6" PIPE W/ ADPT+CLAMP	1	2200.320	EA	2200.32

	ARV SUBTOTAL				7501.59

	CONNECT TO EXISTING 6" WAS				
	WAS LINE DET 1, DWG D1, D2				
	=====				

E3806ST	6 RESTRAINED SLV C900/DI X IPS	2	378.930	EA	757.86

	CONNECT TO 6" SUBTOTAL				757.86

	2" ARV DRAIN LINE				

P80BK	2 X 20 FT PVC S80 BE PIPE	40	188.000	C	75.20
O30757	16 OZ PURP PRMR - NSF LISTED	1	17.010	EA	17.01
O31095	16 OZ PVC HD GRAY CMNT	1	19.615	EA	19.62

	2" S80 SUBTOTAL				111.83

	DOM. WATER MATERIAL TOTAL				8371.28
	=====				
	ADDED PER TRAVIS ON 4/1/25				



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

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complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=3083&on=1079>

Fax: 602-262-4276

11:12:59 APR 04 2025

Reference No: B442701

Item	Description	Quantity	Net Price	UM	Total
PEI11FLAU	6 IPS PC200 DR11 FLG ADPT	4	39.493	EA	157.97
SP-BUP-SDR7-06C	6 DI BACKING RING	4	14.720	EA	58.88
	BUP-SDR11-06B, NOT SDR7				
SP-P6SUS3PRO6	6" STUD SET/2 NUTS 304SS	4	59.460	EA	237.84
	CONTRACTOR TO VERIFY BOLT				
	SIZE PRIOR TO ORDER				

Net Total:	\$27977.66
Tax:	\$0.00
Freight:	\$0.00
Total:	\$27977.66

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

Due to the uncertain impact of potential tariffs, Ferguson's quotation/proposal has not included any provision or contingency for future tariffs or increase of existing tariffs. Ferguson reserves the right to adjust prices to reflect the impact of any new or increased tariffs that affect our costs at the time of shipment. Ferguson will provide notice of any such adjustments along with documentation supporting the changes.

CONTRACTOR CUSTOMERS: IF YOU HAVE DBE/MBE/WBE/VBE/SDVBE/SBE GOOD FAITH EFFORTS DIVERSITY GOALS/ REQUIREMENTS ON A FEDERAL, STATE, LOCAL GOVERNMENT, PRIVATE SECTOR PROJECT, PLEASE CONTACT YOUR BRANCH SALES REPRESENTATIVE IMMEDIATELY PRIOR TO RECEIVING A QUOTE/ORDER.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with *NP in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.
Buyer shall accept delivery of products within 60 days of Seller receiving the products at Seller's warehouse. If Buyer causes or requests a delay in delivery of the products, Buyer may be subject to storage fees and additional costs caused by such delay. Seller reserves the right to requote the products and reschedule the delivery date, subject to manufacturer's lead times and price increases, if Buyer is unable to accept delivery within 60 days.

**HOW ARE WE DOING? WE WANT YOUR FEEDBACK!**

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=3083&on=1079>



Fullerform Systems Inc.
24 East Pioneer St.
PHOENIX, AZ 85040
Phone (602) 268-5701



Quotation

EXPIRATION DATE	QUOTE NUMBER
01/11/2025	S100048437
Fullerform Systems Inc. 24 East Pioneer St. PHOENIX, AZ 85040 Phone (602) 268-5701	PAGE NO.
	1 of 4

QUOTE TO:

SHIP TO:

B&F CONTRACTING, INC
11011 N. 23RD AVENUE
PHOENIX, AZ 85029

B&F CONTRACTING, INC
11011 N. 23RD AVENUE
PHOENIX, AZ 85029

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON	
129	Waste Activated Sludge Line		JJ PARKINSON	
WRITER	SHIP VIA	TERMS	SHIP DATE	FREIGHT ALLOWED
LINDSAY VIKER		1% disc 20 days, Net 30	12/12/2024	No
ORDER QTY	DESCRIPTION		UNIT PRICE	EXT PRICE
	Project: Waste Activated Sludge Line Location: Skunk Creek & 67th Ave Spec: Glendale Bid Date: 1/14/2025 Pricing Valid: 15 Days*			
	6" HDPE			
1160ft	^6" DR-11 IPS HDPE Non Return / Non Cancellable		6.850/ft	7946.00
	Subtotal -----			7946.00
	6" Fittings			
1ea	6 IPS HDPE DR11 22.5-DEG ELBOW Non Return / Non Cancellable		52.615/ea	52.62
10ea	6 IPS HDPE DR11 45-DEG ELBOW Non Return / Non Cancellable		123.692/ea	1236.92
5ea	6 IPS HDPE DR11 90-DEG ELBOW Non Return / Non Cancellable		55.385/ea	276.92
3ea	14UF GREEN WIRE X 500		76.667/ea	230.00
2ea	3DT-GREEN / 3DT-SEWER 3" X 1000' ROLL OF DETECTABLE SEWER TAPE GREEN		37.833/ea	75.67
1ea	^FREIGHT CHARGE HDPE FITTINGS		365.000/ea	365.00
	Subtotal -----			2237.13

** Continued on Next Page **



Quotation

EXPIRATION DATE	QUOTE NUMBER	PAGE NO.
01/11/2025	S100048437	2 of 4

ORDER QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
	6" HDPE (DR 11) VERTICAL REALIGNMENT -----		
4ea	6 IPS HDPE DR11 45-DEG ELBOW Non Return / Non Cancellable	55.385/ea	221.54
	Subtotal -----		221.54
	Casing -----		
168ft	^12" STEEL CASING .375 Wall (40' -42' Lenght Sticks - 159' Needed) Non Return / Non Cancellable	45.000/ft	7560.00
20ea	^CCS08-0663 CASING SPACER SPACER SS 8IN WIDE 6IN 6X12 SS CENTERED RESTRAINED CCS08-663-CTD12.00ID Non Return / Non Cancellable	101.057/ea	2021.14
2ea	^CES01-0663-1275 END SEAL 6 X 12 Non Return / Non Cancellable	77.914/ea	155.83
1ea	16"W X 37"H X 18"W M STYLE HINGED GUARD SHACK (EPCOR ARV) QE-M-1	738.667/ea	738.67
	Subtotal -----		10475.64
	Air Release -----		
	Quoting Nylon Coated Ductile Iron Body Saddle with Stainless Steel Straps. **All Stainless Steel Saddle with single (Wide) Strap also available \$425.00/ea**		
1ea	202N-H-6x2 6"x2" ROMAC SERIES 202N-H NYLON w/ SSTL DOUBLE STRAP SADDLE FOR IPS HDPE (6.63 O.D.) Non Return / Non Cancellable	384.169/ea	384.17
1ea	S20-060 2" X 6" 316 STAINLESS NIPPLE *Verify Length*	46.262/ea	46.26

** Continued on Next Page **



Quotation

EXPIRATION DATE	QUOTE NUMBER	PAGE NO.
01/11/2025	S100048437	3 of 4

ORDER QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
	Non Return / Non Cancellable		
1ea	20SSTH08M	104.726/ea	104.73
	2" STAINLESS STEEL BALL VALVE		
1ea	D26TSS02 2" MIP Inlet 316SS Body	5495.000/ea	5495.00
	Combination Air Valve for Wastewater		
	Non Return / Non Cancellable		
1ea	2" SCH80 90 BEND SOC X FIPT 807-020	17.945/ea	17.94
	Outlet on ARV is 2" MIP		
1ea	16"W X 37"H X 18"W M STYLE HINGED GUARD SHACK (EPCOR ARV) QE-M-1	1000.000/ea	1000.00
	Modified to mount on 6" IPS HDPE Pipe.		
	Metal Cage is Powder Coated Desert Tan (Will not be galvanized)		
	Subtotal -----		7048.10
	Connect to Existing 6" WAS Line		

2ea	ALPHA-A-7.00	634.032/ea	1268.06
	6" ALPHA ROMAC COUPLING 6.60-7.00		
	Subtotal -----		1268.06
	2" ARV Drain Line		

40ft	2" SCH80 PVC PIPE BELLED END 2S80BE	1.973/ft	78.94
3ea	2" SCH80 45 BEND 817-020	16.948/ea	50.84
2ea	2" SCH80 90 BEND 806-020	7.179/ea	14.36
6ea	LS300	30.000/ea	180.00
	LINK SEAL W/ 316SS HARDWARE		
	1/ea 2" penetration into 4" cored Hole (6 Links required)		
	Subtotal -----		324.14
1ft	6TJ350	26.598/ft	26.60
	6" TJ DIP CL350 6DIP350		
1ft	6HDSS350 / 6TR350	36.424/ft	36.42
	6" HDSS/TR FLEX DIP CL350		

** Continued on Next Page **



Quotation

EXPIRATION DATE	QUOTE NUMBER	PAGE NO.
01/11/2025	S100048437	4 of 4

ORDER QTY	DESCRIPTION	UNIT PRICE	EXT PRICE
1ea	EB1706 EBAA 6" 1700 SERIES JOINT RESTRAINT FOR DIP	123.775/ea	123.78
1ea	6" FIELD LOK GASKET 60102	97.955/ea	97.95
*ALL PRODUCTS WILL BE PRICED IN EFFECT AT TIME OF SHIPMENT. *DUE TO SUPPLY CHAIN PRICE INCREASES.		Subtotal	29805.36
		S&H Charges	0.00
		Estimated Tax	0.00
		Amount Due	29805.36



Young, Swenson Cross Paving, Inc.
1329 E. Gibson Lane, Phoenix, AZ 85034
Phone: 602-254-7474, Fax 602-254-7476
License #: ROC299308

ESTIMATE

Bid To: B&F Contracting, Inc.
Wesley Johnston
11011 N. 23rd Ave.
Phoenix, AZ. 85029
Phone: 623-582-1170
e-mail: wesley.johnston

Date: 4/11/2025
Estimate #: CC25004REV

Project Name: Arrowhead WAS Line - asphalt patching - REV2
Project Address: 67th Ave. & Grovers Ave.
Glendale, AZ.

Bid Detail

- A.** Install 6" of Asphalt per COG STD DTL G319 to an area that totals approximately 614 SY.
1. Apply tack to existing saw cut edges.
 2. Install new 3/4" MAG Gyratory hot mix asphalt to a depth of 3", and compact to proper density.
 3. Saw cut asphalt in preparation for removal.
 4. Demo, remove, and haul away existing asphalt for T-top.
 5. Apply tack to existing asphalt surface .
 6. Install new 1/2" MAG Gyratory hot mix asphalt to a depth of 3", and compact to proper density.
 7. Use hot rubber sealant to seal all joints of the newly installed asphalt.

NOTE: Includes (2) weekday mobilizations.

NOTE: Asphalt to be installed in (2) lifts.

NOTE: Area is to be at proper grade (+/- 0.25") and base compacted to proper density by others.

NOTE: Additional paving mobilization charges will be at \$3,000 each.

NOTE: YSC Paving, Inc. will not be held responsible for any settling of asphalt due to subgrade/ABC preparation by OTHERS.

NOTE: Includes demo and removal of existing materials for T-top.

NOTE: Any additional square yards patched back will be billed via change order.

NOTE: Excludes traffic control / barricades, Slurry Seal, Fog Seal, Engineering, Survey, Testing, Permits, or any other items not specified above.

NOTE: Changes in the asphalt thickness will require a signed change order prior to paving.

\$65,109

Pricing is valid until 7/30/2025, if we receive a subcontract by 5/30/2025.

WHERE SUCCESSFUL PROJECTS BEGIN.

Total: \$65,109



Young, Swenson Cross Paving, Inc.
1329 E. Gibson Lane, Phoenix, AZ 85034
Phone: 602-254-7474, Fax 602-254-7476
License #: ROC299308

TERMS AND CONDITIONS:

Price includes (unless otherwise stated) 1 weekday mobilization, equipment, labor, license, and materials. Weekend work is extra.

Sprinkler and irrigation water to be turned off for the duration of projects by owner.

A two(2) year warranty on all workmanship, labor, and materials (except ordinary wear/abuse, failure due to work placed by Others) is standard.

Price EXCLUDES engineering, testing, inspection, permits, bonds, utility adjustments, utility asphalt repairs, stripes, sawcut, prime coat, soil sterilant, colored concrete, Rip Rap, spillways, extruded curb, parking blocks, encasements, drywells, trenches, demolition, environmental controls, ABC, private utility locators, traffic control plans, or any other items unless specifically noted.

Seal Coat and Slurry Seal adhesion cannot be guaranteed on heavily oil contaminated areas.

Tire marks due to hard steering, hot weather, abuse are normal and unavoidable and should not be concern.

YSC is not responsible for drainage on projects with less than 1% fall, subgrade deficiencies, damage to underground utilities or survey monuments not located by Blue Stake "811" or for private lines by owner prior to start of work.

Material prices are good for 30 days from the date on the estimate unless otherwise stated. ****See Market Volatility note above.

Unless stated specifically in the above scope YSC Paving, Inc. is not responsible for making any site conditions or improvements ADA compliant. It is recommended that the client use a certified ADA consultant for site evaluations and recommendations as required by applicable Federal and State laws. YSC Paving will then make the recommended changes and additional charges will apply.

PRELIMINARY / LIEN PROCEDURES: A preliminary notice will be mailed within 20 days, from the start of the project. This is NOT A LIEN and is NOT RECORDED AGAINST YOUR PROPERTY. This notice will be mailed to the owner, construction lender, general contractor, and/or owner/owner's agent in order to preserve the claimant's right to later file a mechanic's lien or make claim against a payment bond if he or she is not paid. This Pre-lien is also for your protection. It informs you, at the outset of the claimant's work, of the type and dollar range of the materials or services to be provided to your project. This allows you to track payments downstream to the claimant, and in return, collect partial and final lien waivers throughout the project. The Pre-lien enables you to make sure the appropriate parties are paid, and to minimize the chance of a mechanic's lien or a bond claim at the conclusion of the project. NOTE: You may also receive other Pre-liens from other subcontractors, suppliers, or similar entities involved in your project.

Any deviations from the specifications involving extra costs will become an extra charge above the estimate.

The above proposal is not intended to be used as specifications for other vendors or contractors.

All sales tax included in total.

Payment terms to be - 50% Down and Balance due upon completion of project.

Payment can be made by Check, ACH transfer, or Credit Card (Visa, Mastercard). A processing fee of 3% will be applied to all credit card payments.

Submitted By: Chris Cathcart 602-254-7474 chris@yscpaving.com	Acceptance of Estimate # CC25004REV Total: \$65,109 The above prices, specifications, and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Print Name & Title: _____ Signature: _____ Date: _____
--	---



AZ ROC # 346003

BID PROPOSAL

Date: 1/21/2025

Client: B & F Construction

Bid #: BFArrowhead.001

Job: Arrowhead WAS Line Realignment

Description	Unit of Measure	QTY	Unit Price	AMOUNT
Mobilization	EA	2	\$3,000.00	\$6,000.00
COG STD DET G-319 (Prep and Pave >6")	SY	613	\$130.00	\$79,690.00
TOTAL			\$85,690.00	

Project Scope: *Pricing Valid for 30 Days*

1. Mobilization -Two mobilizations to include saw cut and removal to obtain 4' trench patch, the re-grade and paving prep prior to asphalt placement.

2. COG STD DET G-319-Prep trench and pave in accordance with STD DET G-319. Utilization of MAG EVAC PG 70-10 Conventional Mix's. Total Pavement thickness not to exceed 6".

Exclusions: Sales Tax, Bonds, Permits, Traffic Control, Inspection Fees, Removals from other trades, Temp. Fencing, Pedestrian Access, Signage, Landscape Restoration, Weekend, Night or Holiday Work, Crack Sealing, Striping, Off Duty Officers.

Customer:

Date: _____

Vortex Construction Services:

Date: _____

**READY-MIX**

DESERT READY MIX

READY MIX CONCRETE SALES AND SERVICE

4011 PRESIDIO STREET

MESA, AZ 85215

OFFICE: 480-428-2280 FAX: 480-985-4248

Begin Date: April 1, 20255

Expiration Date: **December 31, 2025**

Quote # : 25284

MAP/GRID

Customer: **B & F CONTRACTING INC**

Customer Code: BFCO001

Address: 11011 N 23RD AVE
PHOENIX, AZ 85029

Contact: WESLEY JOHNSTON (ESTIMATOR)

Phone: 623-582-1170

Fax:

Project: **ARROWHEAD WAS LINE**

Job Address: 67TH AVENUE & GROVERS

Terms Description: **2% 10TH NET 30**

Item Code	Item Description	Est. Qty	Price
S500501	PHCLSM.5 (1/2 SACK SLURRY COP)	484 Yards	\$110.00
SRP104	1/2 SACK MAG CLSM (SRP MIX IF NEEDED)	Per Yard	\$110.00
A202001	MAG C 2000 PSI W/ASH	18 Yards	\$142.00
A202501	MAG B 2500 PSI W/ASH	9 Yards	\$146.00
A203001	MAG A 3000 PSI W/ASH	3 Yards	\$150.00
G402069	2000 PSI RIP RAP GROUT	8 Yards	\$159.00
TC	TEMPERATURE CONTROL	Per Yard	\$1.00
AG010003 DELIVERED	MAG SPEC ABC (NON-LIME) (GOOD THRU 9/30/2025)	231 Tons	\$19.55

Additional Fees

Fee ID *	UOM	Price
E01	Per Yard	\$3.25
FSC	Per Load	\$TBD

Minimum Load Fee

Less than or equal to	UOM	Price
2 Yards	Load	\$0.00
3.5 Yards	Load	\$0.00
5.5 Yards	Load	\$0.00

- Normal operating hours are Mon-Fri, Sat, Sun or Holidays are subject to surcharges.
- Color added at no expressed guarantee.
- Drivers do not accept cash or make change.
- Desert Ready Mix reserves the right to increase prices due to RAW Material cost increases such as Cement, Fly Ash, Aggregates or unexpected Fuel increases.
- All specialized aggregate sales are based on availability.
- Deliveries less than 6 Cubic yards are subject to our minimum load charges.
- This quote does not guarantee product or service availability
- All Aggregates and Concrete deliveries include a per load fuel surcharge.

Quoted By:

BRUCE A. TABET

* E – Environmental | S – Saturday Fee | F – Fuel Surcharge



Quote Number: **Q10014561-0**
Created On: 1/6/2025
Expiration Date: 4/6/2025

Project: Arrowhead WAS Line
Project Address: 67th Ave & W Grovers Ave
Glendale, AZ 85308
Estimated Start Date: 1/27/2025
Pricing Valid Until: 4/30/2025

Account: B & F Contracting Inc
Account Number: 40032
Contact: Wesley Johnston
E-mail: wesley.johnston@bfcontracting.com
Phone: 480-489-9893

Customer Service:
Sales Office Address: PO Box 741805 Kilgore Companies
Los Angeles, CA 90074-1805

MATERIAL PRICING

Item Code	Description	Quantity	Unit Price
PHCLSM	1/2 SACK ABC SLURRY (COP) <i>Escalator of \$3.00 effective 4/1/2025 recurring every 12 months</i>	500 CY	\$106.00
50020	2000 PSI GROUT W/ASH, ASTM 476 <i>Escalator of \$6.00 effective 4/1/2025 recurring every 12 months</i>	10 CY	\$152.00
13004	3000 PSI MAG-A <i>Escalator of \$6.00 effective 4/1/2025 recurring every 12 months</i>	5 CY	\$139.00
12504	MAG-B 2500 PSI 1" ROCK <i>Escalator of \$6.00 effective 4/1/2025 recurring every 12 months</i>	10 CY	\$137.00
12004	2000 PSI MAG C <i>Escalator of \$6.00 effective 4/1/2025 recurring every 12 months</i>	20 CY	\$135.00

SUNDRIES AND SURCHARGES

Item	Comments	Price	Unit
Fuel Surcharge RMX		\$35.00	EA
WEEKEND TRUCK TIME		\$50.00	HRS
ENVIRONMENTAL CHARGE		\$25.00	EA
Load Size: 0.00 > 6.00		\$200.00	CY
Additional Products & Services			
Chilled Water		\$2.50	PCY
Color Seal		\$0.00	PCY
Color Wash Out		\$25.00	EA
Micro Fiber		\$7.50	PCY
Nitrogen Cooling		\$9.50	GAL
Recover per 1/2 hour		\$4.00	OZ
Non-Chloride Accerator (per 1%)		\$0.00	GAL
Hot Water		\$2.50	PCY
Macro Fiber (Structural)		\$7.00	PCY

Respectfully,

Arizona Materials

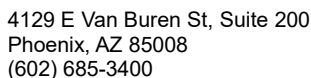
Sales Rep: Randy Schmolke
Phone: 602-342-6595
Email: Randy.Schmolke@azmatl.com

Customer Acceptance

Signed by:

Date:

☐ Taxable ☐ Tax Exempt (Attach Certificate)



SALES REP: Villegas, Raul
(480) 298-0157

Raul.Villegas@MartinMarietta.com

Add:

\$25.00	Per Load Transportation Surcharge - Add to Above Pricing
\$2.00	Per Cubic Yard Environmental Fee - Add to Above Pricing
N/C	Per Cubic Yard Tempered Water Service Fee
\$10.00	Per Cubic Yard Saturday Premium Charge

\$8.00	Per Cubic Yard per each 1% Non Chloride Accelerator (available in 0.25% increments)
\$3.00	Per Cubic Yard per Each 30 Minute Increment of Hydration Stabilizer (Retarder)
\$7.00	Per Cubic Yard Mono/Micro Fiber (1LB per Cubic Yard)
\$4.00	Per Pound of Color per Sack of Cement per Cubic Yard
\$50.00	Color Washout Fee per Load
250.00	Per Load Short Load Delivery Fee (Orders of 6 CYs or Less)
\$2.00	Per Minute of Wait Time per Load After 45 Minutes (on job standby)
\$5.00	Per Gallon Nitro (3 gallons is equivalent to 20 LBs. of ice) Call for Availability
\$0.75	Per Pound Ice
\$8.00	Per Cubic Yard Cancellation Fee within 24 Hours of Scheduled Start Time (\$200 minimum fee)
100.00	Per Load Multi-Stop Delivery Fee (per stop)

Above pricing is valid for 30 days from quote date, written quote acceptance is required to hold pricing beyond 30 days.

Prices are FOB job site unless noted otherwise and do not include taxes. Sales Tax owed unless exempt documentation is received before the first pour.

See item 7. **TERMS: NET 30 DAYS.** If not paid when due, Applicant agrees to pay interest charges at the rate of 1.5% per month or the maximum lawful rate, whichever is lower, and Seller's reasonable costs of collection, including reasonable attorneys' fees.

Signature: _____ Quote Date: 1/28/2025 Accepted by: _____

Please Note

All concrete as bid is per 90 minute max delivery and 95 degree max concrete temperature unless noted otherwise. All Concrete as Bid contains Type F Ash and normal weight aggregate unless specifically noted. All concrete pricing above is valid from Monday thru Friday during normal business hours unless noted otherwise. Aggregates are a naturally occurring material which can contain particles that degrade or stain concrete. It is not possible to completely remove all such particles; however, the occurrence is infrequent, and the bulk aggregate meets the Limits for Deleterious Substances and Physical Property Requirements of Coarse Aggregate for Concrete as outlined in ASTM C 33. Martin Marietta does not warrant against these infrequent occurrences.

Minimum amount of standard concrete for deliveries is 2 cubic yards. specialty concrete is 4 cubic yards. Buyer is responsible for safe access to work area and wash out containment area for all deliveries.

**MAG SPEC ABC**

DESERT READY MIX

READY MIX CONCRETE SALES AND SERVICE

4011 PRESIDIO STREET

MESA, AZ 85215

OFFICE: 480-428-2280 FAX: 480-985-4248

Begin Date: April 1, 2025

Expiration Date: **December 31, 2025**

Quote # : 25284

MAP/GRID

Customer: **B & F CONTRACTING INC**

Customer Code: BFCO001

Address: 11011 N 23RD AVE
PHOENIX, AZ 85029

Contact: WESLEY JOHNSTON (ESTIMATOR)

Phone: 623-582-1170

Fax:

Project: **ARROWHEAD WAS LINE**

Job Address: 67TH AVENUE & GROVERS

Terms Description: **2% 10TH NET 30**

Item Code	Item Description	Est. Qty	Price
S500501	PHCLSM.5 (1/2 SACK SLURRY COP)	484 Yards	\$110.00
SRP104	1/2 SACK MAG CLSM (SRP MIX IF NEEDED)	Per Yard	\$110.00
A202001	MAG C 2000 PSI W/ASH	18 Yards	\$142.00
A202501	MAG B 2500 PSI W/ASH	9 Yards	\$146.00
A203001	MAG A 3000 PSI W/ASH	3 Yards	\$150.00
G402069	2000 PSI RIP RAP GROUT	8 Yards	\$159.00
TC	TEMPERATURE CONTROL	Per Yard	\$1.00
AG010003 DELIVERED	MAG SPEC ABC (NON-LIME) (GOOD THRU 9/30/2025)	231 Tons	\$19.55

Additional Fees

Fee ID *	UOM	Price
E01	Per Yard	\$3.25
FSC	Per Load	\$TBD

Minimum Load Fee

Less than or equal to	UOM	Price
2 Yards	Load	\$0.00
3.5 Yards	Load	\$0.00
5.5 Yards	Load	\$0.00

- Normal operating hours are Mon-Fri, Sat, Sun or Holidays are subject to surcharges.
- Color added at no expressed guarantee.
- Drivers do not accept cash or make change.
- Desert Ready Mix reserves the right to increase prices due to RAW Material cost increases such as Cement, Fly Ash, Aggregates or unexpected Fuel increases.
- All specialized aggregate sales are based on availability.
- Deliveries less than 6 Cubic yards are subject to our minimum load charges.
- This quote does not guarantee product or service availability
- All Aggregates and Concrete deliveries include a per load fuel surcharge.

Quoted By:

BRUCE A. TABET

QUOTATION



Date: 01/07/2025
Quote #: 1462062110
Account: 213518

ACCOUNT : B & F GENERAL CONTRACTING **QUOTE NAME :** ARROWHEAD WAS LINE / N 67TH AVE & W GROVERS AVE / GLENDALE

Bill-To Address: 11011 N 23RD AVE
PHOENIX AZ 85029

Attn: Wesley Johnston

Ship-To Address: N 67TH AVE & W GROVERS
AVE AZ062243
GLENDALE AZ 85308

Effective Date: 01/07/2025

Expiration Date: 02/06/2025

Upon Acceptance Price Valid Until: 03/31/2025

Sales Representative: Jesse Paul Castro

Phone: +1 (480) 708-9498

Email: castroje@vmcmail.com

100 - Aggregates

Plant	Product ID	Product Name	Qty	U/M	Unit Price	Haul Rate	Delivered
SUN CITY SAND & GRAVEL	16272	MAG SPEC ABC	231	TON	\$17.00	\$5.85	\$22.85

Additional Charges

Product ID	Product Name	Price/%	Per UOM
ENVFEE	Environmental Fee -Agg & Asphalt	\$4.00	LOAD

SPECIAL INSTRUCTIONS

All daily orders under 100 tons of asphalt are subject to Gomez Price plus the haul.

Material pricing is good to the end of the quote/sales order date only, regardless of the quote acknowledgment or PO status. Any material provided after that date is subject to price increases.

Vulcan Material plants are commercial asphalt sources that provide a wide range of mixes to multiple customers on a production day. Every effort is made to ensure production quantities and times for each customer are met. Vulcan will not be responsible for project or trucking impacts due to the availability to all of our customers. Due to current aggregate demand, the quote is also subject to product or material availability. Production is scheduled based on a first-come, first-served basis as available.



ATTEN: Travis Monk
B&F Contracting Inc
11011 N 23rd Ave
Phoenix AZ 85029

**CASING FIELD WELD AND COATINGS
QUOTE: 25-143**



ERIC JOHNSON

Estimator

Professional Piping Systems LLC
319 E. Pioneer Street
Phoenix, AZ 85040
C: 602-510-2638
www.ppsphx.com

PROFESSIONAL PIPING SYSTEMS
738 S 52ND STREET
Tempe, AZ 85281



Attachment 1

Scope of work

Drawings Provided for Estimating

- NA

Material Grades

- CS pipe provided by B&F

Procedures

- Inspection criteria
 - None

Coatings

- Surface Prep: SSPC-SP6
- First Prime coat: Macropoxy 646
- Second finish coat: High Solids Poly Semi-Gloss (Finish Color TBD)
- 3 Gal for coating the weld affected zones and field touch up. (B&F to do touch up)

Clarifications and Assumptions

- THIS PRICING IS GOOD FOR 30 DAYS FROM THE DATE ON THIS PROPOSAL. IF PO OR NOTICE TO PROCEED IS GIVEN 30 DAYS AFTER THE DATE OF THIS PROPOSAL, PPS MUST VERIFY MATERIAL AND EQUIPMENT COSTS AND ADD ANY INCREASE TO THE FINAL COSTS.
- PPS WILL NOT BE BOUND TO ANY SCHEDULE IN WHICH WE HAVE NOT FULLY PARTICIPATED. FURTHER, WE WILL NOT ALLOW OUR WORK ACTIVITIES TO BE COMPRESSED DUE TO THE SCHEDULE SLIPPAGE OF OTHER TRADES OF SUPPLIERS FOR WHICH WE ARE NOT RESPONSIBLE.
- PPS SHALL NOT BE LIABLE FOR DELAYS RESULTING FROM INDUSTRY CONDITIONS CONSTRICTING THE SUPPLY OF ESSENTIAL COMPONENTS OF MATERIALS, INCLUDING THE INTERRUPTION IN THE SUPPLY OF STEEL PRODUCTS.
- ALL PRICING IS CALCULATED WITH STRAIGHT AND OVERTIME BEING WORKED.
- IN THE EVENT THAT TARIFFS, DUTIES, OR OTHER GOVERNMENT-IMPOSED FEES ARE ENACTED, MODIFIED, OR INCREASED AFTER THE DATE OF THIS PROPOSAL AND SUCH TARIFFS DIRECTLY IMPACT THE COST OF RAW MATERIALS REQUIRED FOR THE PERFORMANCE OF THE WORK, THE QUOTED PRICE SHALL BE SUBJECT TO ADJUSTMENT. THE ADJUSTMENT SHALL REFLECT THE ACTUAL INCREASE IN MATERIAL COSTS INCURRED BY PPS DUE TO THE TARIFF CHANGES. PPS SHALL PROVIDE REASONABLE DOCUMENTATION TO SUBSTANTIATE THE ADDITIONAL COSTS. THE



Professional Piping Systems, LLC
738 S 52nd Street
Tempe, AZ 85281
www.ppsphx.com
2/20/2025

CUSTOMER AND PPS AGREE TO NEGOTIATE IN GOOD FAITH TO EQUITABLY ADJUST THE CONTRACT PRICE TO ACCOUNT FOR SUCH INCREASED COSTS.

- NDT OTHER THAN VISUAL INSPECTION IS ONLY INCLUDED IF IT IS SPECIFICALLY NOTED IN THIS PROPOSAL.
- ALL LABOR HAS A ONE YEAR WARRANTY.

DESCRIPTION OF WORK

- FIELD WELD 12" DIA CASING PIPE.
- OPTION INCLUDED FOR COATING.

Attachment 2

Proposed Schedule and Pricing

Leadtime

- Pricing is for 2ea welders for 1 day to weld 3ea 12" BW Joints
- Includes option for painting the Casing in the shop.

Shipping

- Not included

Total Proposal

Total = \$2,080.00

PAINTING OPTION = \$7,250.00

Terms

- PAID WHEN COMPLETE
- NET-30

**COATING NOT IDENTIFIED
AS BEING REQUIRED IN
PLANS. IF COATING IS
REQUIRED, CONTINGENCY
BUDGET SHALL BE
UTILIZED FOR
REIMBURSEMENT**



Attachment 3

INCLUSIONS

PPS HAS INCLUDED THE FOLLOWING:

- 2EA WELDERS FOR ONE DAY TO WELD 3EA BW JOINTS ON THE CASING PIPE.
- IF SELECTED: PAINTING THE CASING PIPE IN THE SHOP AND SUPPLYING EXTRA PAINT FOR WELD AREAS AND TOUCH UP.

Attachment 4

Exclusions

PPS has specifically **EXCLUDED** from this proposal the following:

- All field installation.
- Delivery and unloading pipe on the job site.
- Coatings (if option is not taken.)
- Taxes and bonds.
- Anything not specifically addressed in this Proposal.

Attachment 5

Terms & Conditions

The following terms and conditions (these "Terms & Conditions") apply to the sale of goods, materials or products (collectively, "Products") or provision of services (collectively, "Services") by Professional Piping Systems, LLC, an Arizona limited liability company ("PPS"), to the customer identified on the Purchase Order to which these Terms & Conditions are attached (the "Customer") and all purchase orders and the provision of all Products or Services by PPS are subject to the Terms & Conditions.

1. **Prices.** Except as provided herein, prices offered by PPS for Services or Products in any written quote or estimate ("Quote") will remain in effect for a period of fifteen (15) days after the date of the Quote (the "Quote Date"). After said fifteen (15) day period, prices are subject to change. Prices for Products to be used in any Work (hereafter defined) which are obtained by PPS from a third party, are subject to change at any time to account for any fluctuations in the market price after the Quote Date.

EXHIBIT E
Construction Documents necessary to define Scope of Work and Deliverables for the
Construction Phase Services, including plans, designs, drawings, specifications and other
required Contract Documents

(88 pages - To be Incorporated by Amendment)

[SEE ATTACHED](#)

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EXHIBIT E: CONSTRUCTION DOCUMENTS
ARROWHEAD SEWER LINES PHASE 1.1
WAS LINE REALIGNMENT
COG PROJECT NUMBER: 202104
GMP2

DOCUMENTS:

- Drawings: City of Glendale Project #202104.1 Arrowhead Sewer Lines Phase 1.1 Waste Activated Sludge (WAS) line Realignment December 2024 Sealed 12/20/24
- Technical Specifications: Arrowhead Sewer Lines Phase 1.1 Waste Activated Sludge (WAS) Line Realignment Contract No. 202104.01 Technical Specifications Draft Submitted to City of Glendale December 20, 2024

CITY OF GLENDALE GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST MAG STANDARD DETAILS AND SPECIFICATIONS AND THE CITY'S CURRENT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS.
- THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH CITY REQUIREMENTS PRIOR TO ISSUANCE OF PERMITS. THE CITY ENGINEER'S REVIEW IS LIMITED TO TECHNICAL ASPECTS OF THE PLANS AND DOES NOT INCLUDE A REQUIREMENT FOR THE CONTRACTOR TO OBTAIN NECESSARY PERMITS FROM ALL AFFECTED AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- THE CITY DOES NOT WARRANT ANY QUANTITIES SHOWN ON THESE PLANS.
- THE CITY PLANS ACCEPTANCE IS FOR GENERAL LAYOUT IN THE RIGHT-OF-WAY ONLY. THIS ACCEPTANCE IS NOT A GUARANTEE OF THE ACCURACY OF THE PLANS. THE CITY SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- A CITY ACCEPTED SET OF PLANS SHALL BE AVAILABLE ON THE JOB SITE AT ALL TIMES.
- THE CITY SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK. CONSTRUCTION WORK SHALL BE COMPLETED WITHOUT INTERFERENCE BY THE CITY SHALL BE SUBJECT TO EXPOSURE AT THE CONTRACTOR'S EXPENSE.
- A RIGHT-OF-WAY CONSTRUCTION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR FOR ANY WORK THAT MAY AFFECT THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS AND ELECTRONIC (AUTOCAD) FILES HAVE BEEN SUBMITTED AND APPROVED BY THE CITY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND WORK RELATED TO THE REMOVAL, RELOCATION OR ABANDONMENT OF ALL UTILITIES WITHIN THE RIGHT-OF-WAY THAT COINCIDE WITH THE NEW IMPROVEMENTS.
- THE CONTRACTOR SHALL CONTACT BLUE STAKE (602-263-1100) 48 HOURS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BARBERSHIRE CONSTRUCTION AFTER AT ALL TIMES PER THE CITY OF RICHMOND TRAFFIC BARBERSHIRE MANUAL, WHEN REQUIRED BY THE CITY, A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 72 HOURS IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR MAY OBTAIN A FIRE HYDRANT METER FOR CONSTRUCTION WATER FROM THE CITY WATER DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- DAMAGE CAUSED BY THE CONTRACTOR DURING CONSTRUCTION TO CITY INFRASTRUCTURE OR FACILITIES SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AT HIS EXPENSE, IN A MANNER ACCEPTABLE TO THE CITY.
- THERE SHALL BE NO DIRT RAMPS OVER SIDEWALKS DURING CONSTRUCTION.
- AN ASSESSMENT IS REQUIRED FOR ALL CONSTRUCTION THAT REQUIRES LAND OVER ONE (1) ACRE IN SIZE PRIOR TO START OF ANY CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A NOTICE OF INTENT (NOI) TO THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) AND A COPY TO THE CITY OF GLENDALE AND HAVE A COPY OF THE SWPPP ON SITE AT ALL TIMES.

CITY OF GLENDALE STREET NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR PAYING PERMIT FEES PRIOR TO CONSTRUCTION OF ANY STREET IMPROVEMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING WATER AND SEWER AS-BUILT PLANS BEFORE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITY FRAMES AND COVERS THAT MUST BE ADJUSTED TO FINISH GRADE.
- THE CONTRACTOR SHALL NOT START CONSTRUCTION UNTIL CONVECTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE STUBS TO ALL LOTS HAVE BEEN ADEQUATELY EXTENDED TO THE RIGHT-OF-WAY OR EASEMENT LINE.
- IF THE EXISTING PAVEMENT DOES NOT MEET CITY REQUIREMENTS, THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE THE PAVEMENT. THE CITY SHALL DETERMINE THE EXISTING PAVEMENT TO BE REMOVED AND REPLACED.
- ALL EXISTING STREET MONUMENTS MUST BE PRESERVED PRIOR TO CONSTRUCTION. MONUMENTS WILL BE REFERENCED HORIZONTALLY AND VERTICALLY AFTER CONSTRUCTION. MONUMENTS SHALL BE RESET AND ANY NEW INFORMATION SHALL BE REFLECTED ON THE AS-BUILT PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL NEW PAVEMENT MARKINGS AND THE REPAIR OF ALL EXISTING PAVEMENT MARKINGS THAT ARE A RESULT OF THE NEW PAVEMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL NEW PAVEMENT MARKINGS AND THE REPAIR OF ALL EXISTING PAVEMENT MARKINGS THAT ARE A RESULT OF THE NEW PAVEMENT.

CITY OF GLENDALE SEWER NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR PAYING PERMIT FEES PRIOR TO CONSTRUCTION OF ANY SEWER LINES.
- MAG STANDARD DETAIL 404 SHALL APPLY WHETHER SHOWN ON THE APPROVED PLANS OR NOT.
- CONFLICTS WITH THE EXISTING UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE CALLED TO THE ATTENTION OF THE CITY AND RESOLVED PRIOR TO PROCEEDING.
- LOCATION OF ALL MANHOLES AND CLEANOUTS MUST BE REFERENCED AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO THE CITY'S WATER SERVICES DEPARTMENT.
- ALL NEW SEWER MAINS SHALL BE INSPECTED BY CLOSED CIRCUIT TELEVISION METHODS ACCEPTABLE TO THE CITY. ANY DEFECTS DISCOVERED DURING TELEVISION INSPECTION SHALL BE CORRECTED AND RE-TELEVIEWED AT THE CITY'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- BEDDING AND BACKFILL OF ALL SEWER MAINS AND SERVICES IN CITY RIGHTS-OF-WAY OR EASEMENTS SHALL FOLLOW CITY OF GLENDALE STANDARD DETAIL C-666.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- FOR ALL TESTING AND MATERIAL REQUIREMENTS SEE THE PROJECT SPECIFICATIONS.

ENGINEER'S NOTES

- LOCATION OF UTILITIES SHOWN ON THE DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OTHERS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR'S WORK SHALL BE SCHEDULED SO AS NOT TO UNLAWFULLY INTERFERE OR PREVENT ACCESS TO PRIVATE RESIDENCES, PUBLIC FACILITIES, OR BUSINESSES. EXCEPT BY PRIOR WRITTEN AGREEMENT WITH IMPACTED OWNERS OR OPERATORS. SUBMIT A COPY OF ALL AGREEMENTS TO THE CITY PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL LOCATE ALL UTILITIES THAT MAY BE AFFECTED BY THE WORK REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH PERMITS AND LICENSES OBTAINED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- REPAIR ANY LANDSCAPED AREAS DAMAGED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. EXCEPT WHERE MODIFICATIONS ARE SPECIFICALLY NOTED ON PLANS, INDICATED IN SPECIFICATIONS OR CONTAINED IN PERMITS, AT NO ADDITIONAL COST TO THE CITY.
- LANDSCAPED AREAS MAY HAVE IRRIGATION PIPING SYSTEMS NOT SHOWN ON THE DRAWINGS. CONTRACTOR SHALL RESTORE ALL IRRIGATION PIPING DAMAGED BY CONSTRUCTION AT NO ADDITIONAL COST TO CITY.
- UNLESS OTHERWISE SHOWN ON PLANS, INDICATED IN SPECIFICATIONS OR CONTAINED WITHIN PERMITS, ALL EXISTING UTILITIES SHALL BE PRESERVED AND PROTECTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- ALL EQUIPMENT AND MATERIALS IN CONTACT WITH POTABLE WATER DURING OR FOLLOWING CONSTRUCTION SHALL MEET NSF 60, 61 AND 312 REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING PIPE LOCATION, MATERIAL, CONDITION, AND DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY EXISTING PIPE LOCATION, MATERIAL, CONDITION, AND DIMENSIONS PRIOR TO CONSTRUCTION.
- AERIAL PHOTOGRAPHS WERE OBTAINED FROM MARICOPA COUNTY, DATED 2023.
- CONTRACTOR TO USE CAUTION WHILE WORKING IN THE VICINITY OF ALL GAS AND POWER LINES. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE GAS AND POWER TRENCHES AND PRELINES AT ALL TIMES. SPECIAL ATTENTION SHALL BE GIVEN TO BRACING AND SUPPORT FOR UNDERGROUND POWER LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- OPEN CUT SLOPES AND SHORING FOR TRENCH EXCAVATIONS SHALL AS A MINIMUM COMPLY WITH OSHA 1926 SUBPART P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL AFFECTED AGENCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FLUSH EXISTING WASTE ACTIVATED SLUDGE LINE PRIOR TO REMOVAL AND ABANDONMENT.
- CONTRACTOR SHALL MAINTAIN BUSINESS ACCESS FOR LOCAL TRAFFIC ALONG PROJECT CORRIDOR DURING NORMAL BUSINESS HOURS. ANY TRAFFIC RESTRICTION SHALL BE REVIEWED AND BE ACCEPTED BY THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS.
- CONTRACTOR SHALL NOT LOCATE EQUIPMENT REQUIRED TO RUN OUTSIDE OF THE HOURS OF 10:00 AM TO 7:00 AM NEAR RESIDENTIAL PROPERTY. PUMPS SHALL BE SILENCED. PUMP EQUIPMENT REQUIRE NOISE ABATEMENT MEASURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND SURVEY.

HDPE PIPE SPECIFICATION

- NEW WASTE ACTIVATED SLUDGE LINE SHALL BE PRESSURE RATED HDPE, BUTT-FUSED DR 11, IN ACCORDANCE WITH AWWA C900 (PE4710).
- DATA LOGGER SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES. DATA LOGGERS SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES. DATA LOGGERS SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES. DATA LOGGERS SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES.
 - ALL BUTT FUSION AND ELECTROFUSION SHALL BE PERFORMED BY QUALIFIED TECHNICIANS IN ACCORDANCE WITH AWWA C900 (PE4710).
 - DATA LOGGERS SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES. DATA LOGGERS SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES. DATA LOGGERS SHALL BE USED TO RECORD ALL BUTT FUSION PROCESSES.
 - FABRICATED FITTINGS MUST BE DERATED PER THE MANUFACTURER'S RECOMMENDATIONS WITHOUT REDUCING THE ID THROUGH THE FITTING.
 - FINAL CONNECTIONS SHALL BE MADE AFTER PIPE HAS EQUILIBRATED TO ITS OPERATING TEMPERATURE.



PROJECT # 202104.1
ARROWHEAD SEWER LINES PHASE II
WAS LINE REALIGNMENT
GENERAL NOTES

DWG Number	G2
SCALE: AS SHOWN	
December 2024	
SHT: 02	11

NO.	REVISION	DATE
1	1	11/11/24
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97	97	11/11/24
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99	99	11/11/24
100	100	11/11/24

CITY OF GLENDALE

ENGINEERING DEPARTMENT

9580 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (602) 930-3630

STANDARD ABBREVIATIONS & LEGEND

[illegible]

EXISTING

COMMUNICATION	
— 1000 —	
ELECTRIC (UNDERGROUND)	
ELECTRIC (OVERHEAD)	
FIBER OPTIC	
FIRE LINE	
GAS	
— 100 —	
IRRIGATION LINE 18" OR SMALLER	
IRRIGATION LINE 21" OR LARGER	
— 100 —	
RECLAIMED WATER 18" OR SMALLER	
RECLAIMED WATER 21" OR LARGER	
— 100 —	
TELEPHONE	
SERVICE LINE 18" OR SMALLER	
SERVICE LINE 21" OR LARGER	
— 100 —	
STORM DRAIN 18" OR SMALLER	
STORM DRAIN 21" OR LARGER	
— 100 —	
WATER LINE 18" OR SMALLER	
WATER LINE 21" OR LARGER	
— 100 —	

EXISTING

[illegible]

NEW

MARK	MASS WALL/RETAINING WALL
CAP FLUSH	MAJOR CONTOUR
CAP IN HANDHOLE	MINOR CONTOUR
LOW PRESENTER	SIDEWALK
G. LOCATION	SINGLE CURB
REL. LOCATION	WAS LINE
TRANSIT	
DEPT CONNECTION	
POLE	
WALL	
OX	
CLE	
PLUG	
OLE LOCATION	
OX	

NEW

CITY OF GLENDALE
ENGINEERING DEPARTMENT
5850 W. GLENDALE AVE.
GLENDALE, ARIZONA 85301 (602) 930-3630

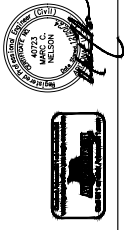
PROJECT # 202104.1
ARROWHEAD SEWER LINES PHASE II
WAS LINE REALIGNMENT
STANDARD ABBREVIATIONS & LEGEND

DWG Number
G3

SCALE: AS SHOWN

December 2024

SHT. 03
OF 11



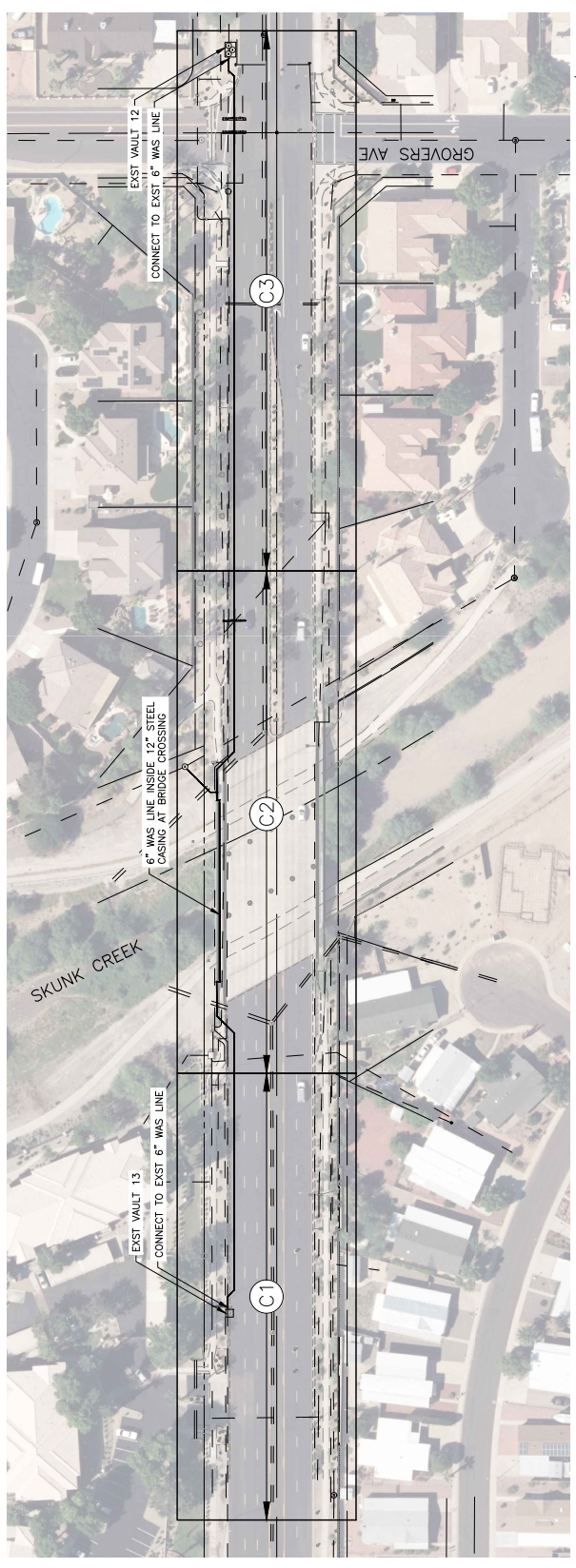
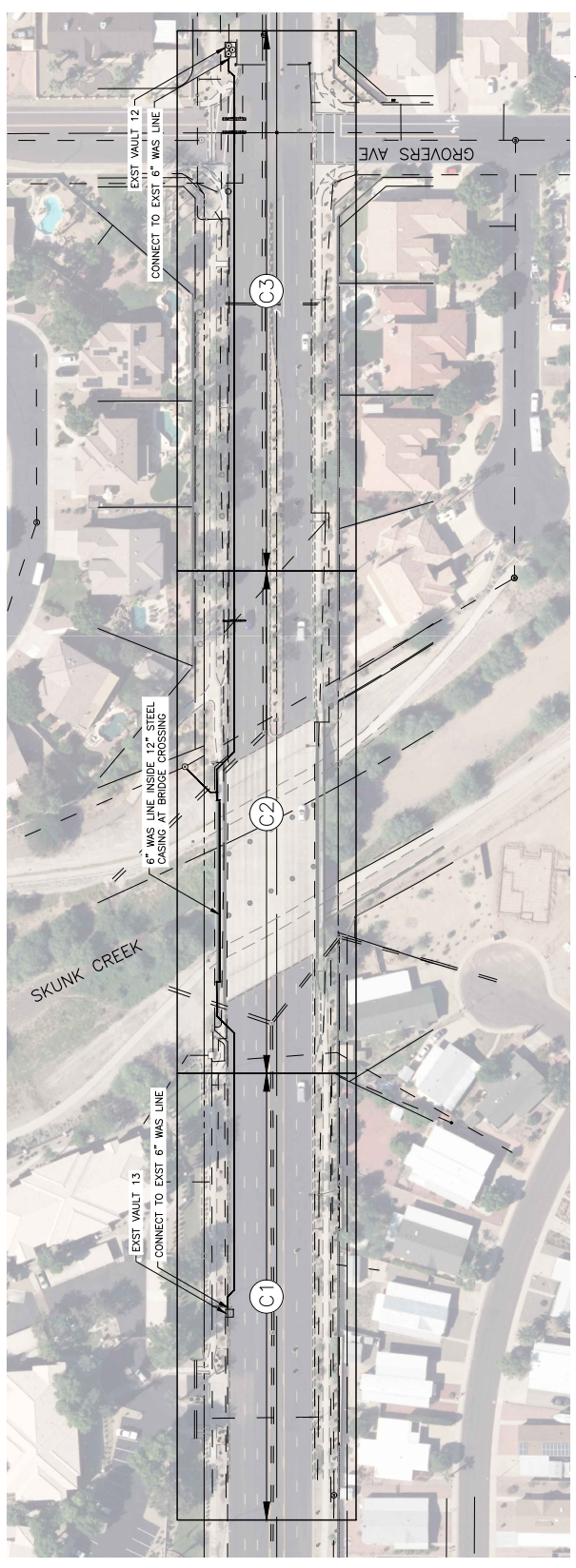
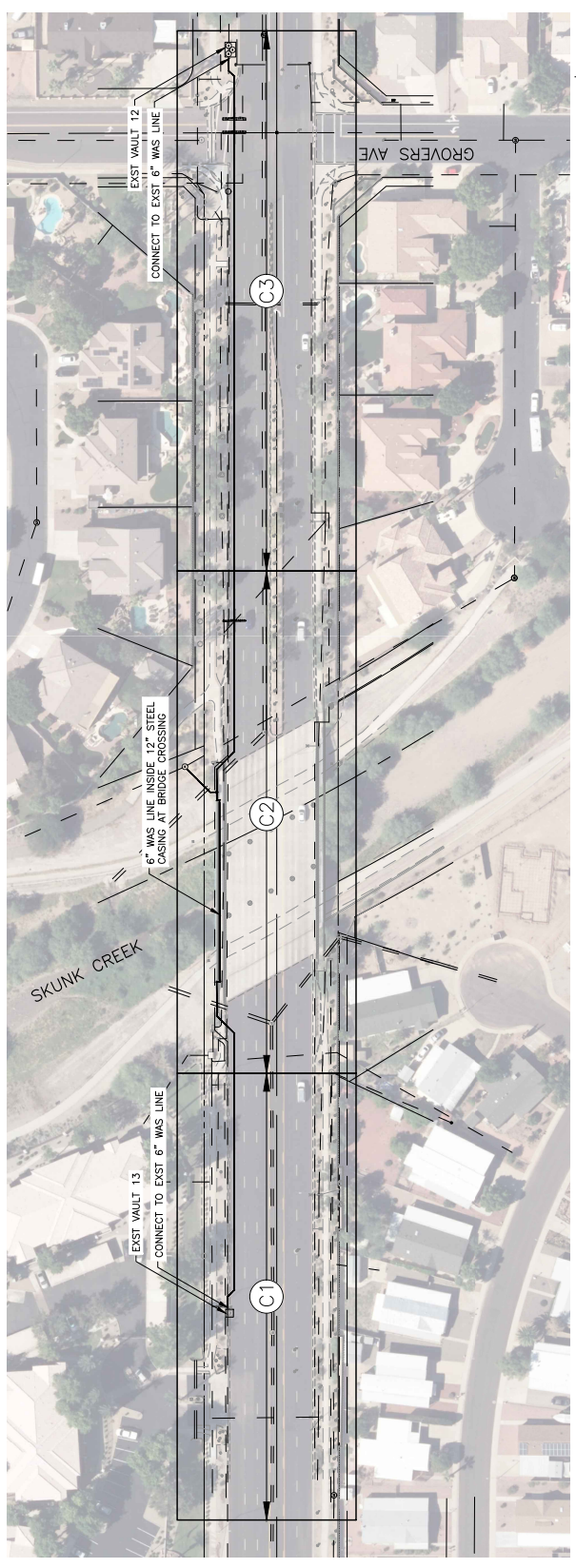
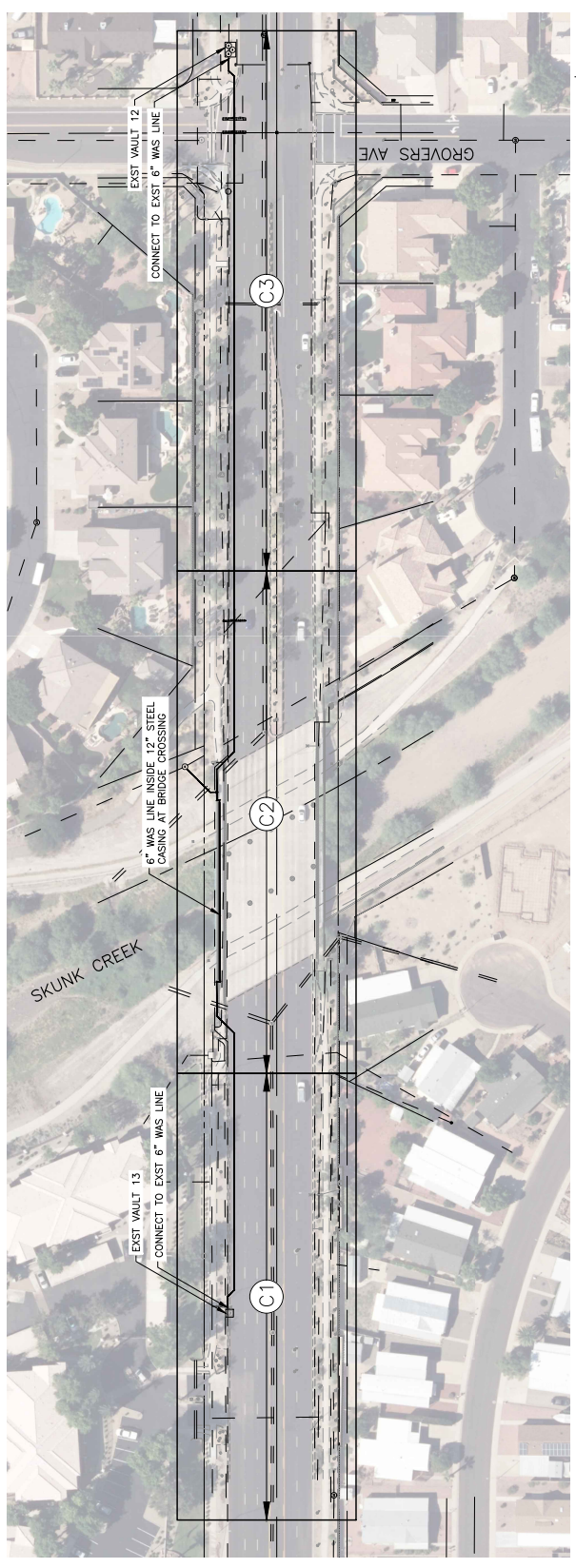
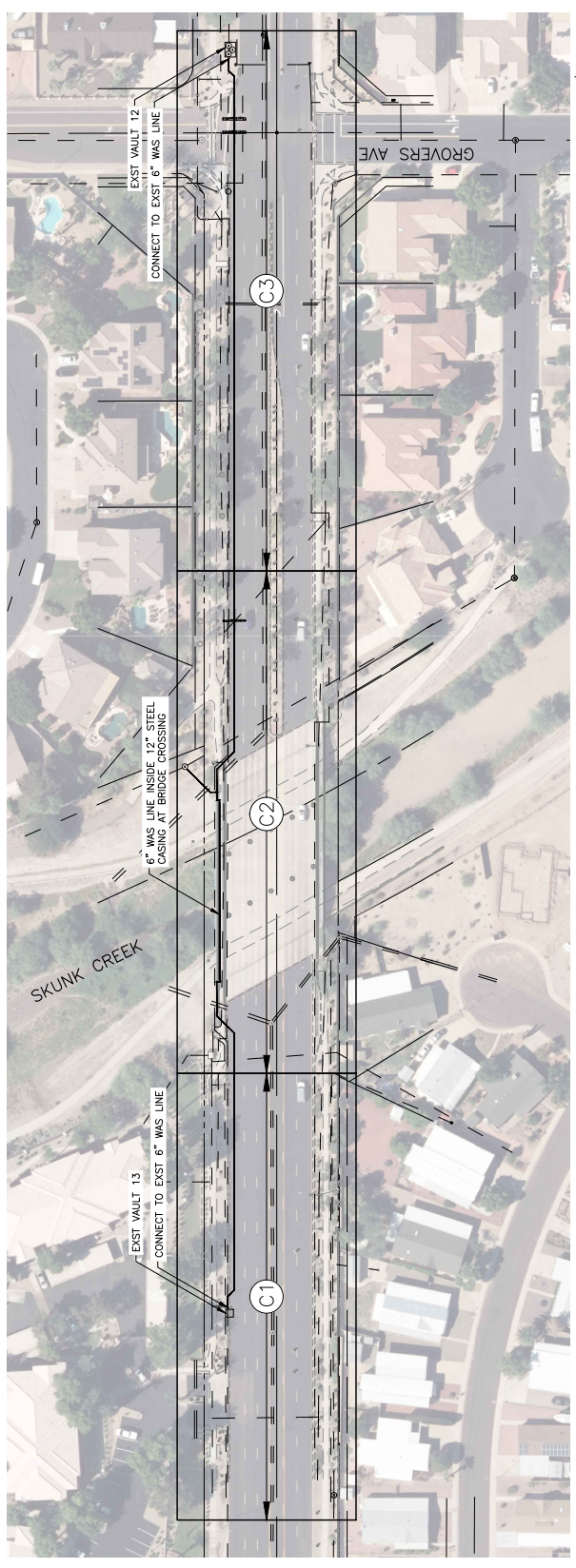
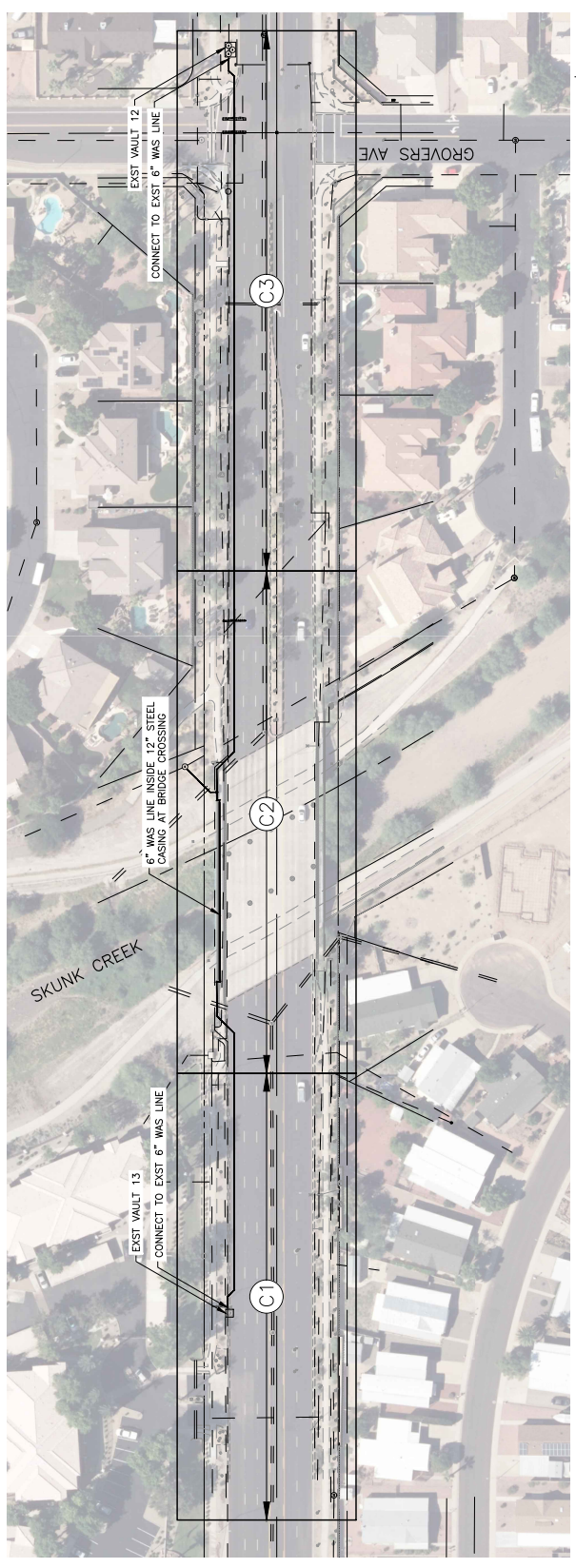
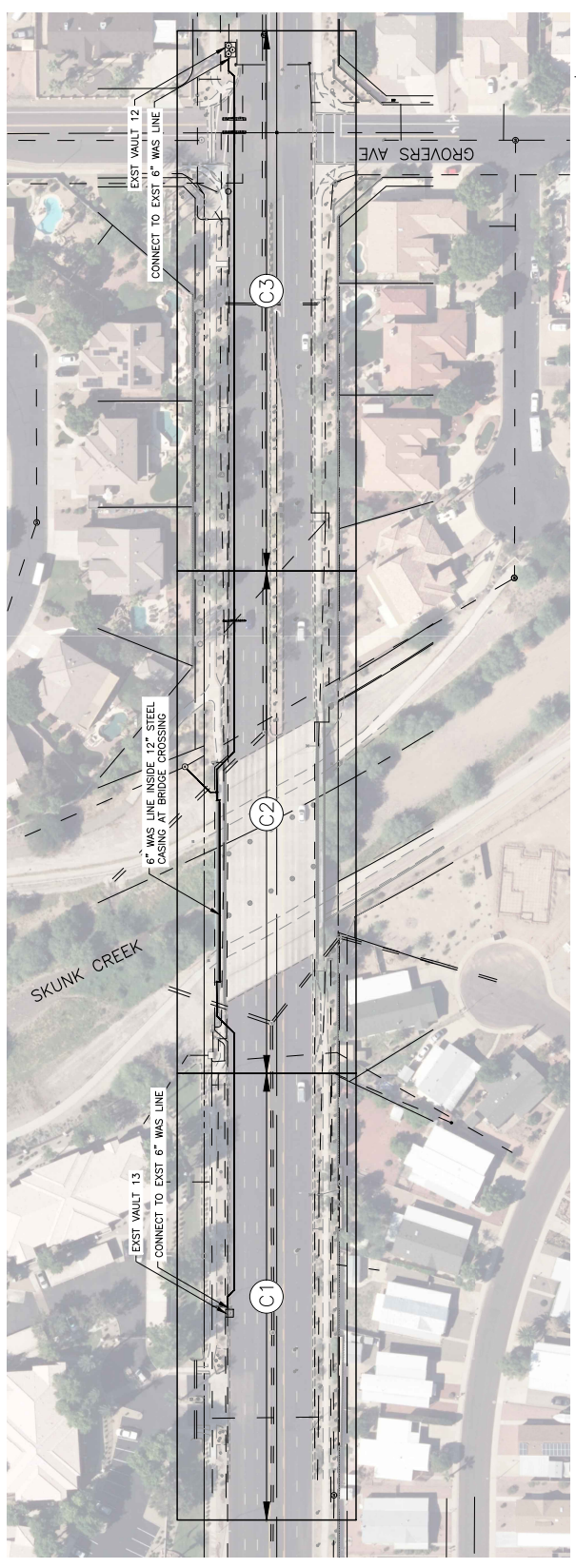
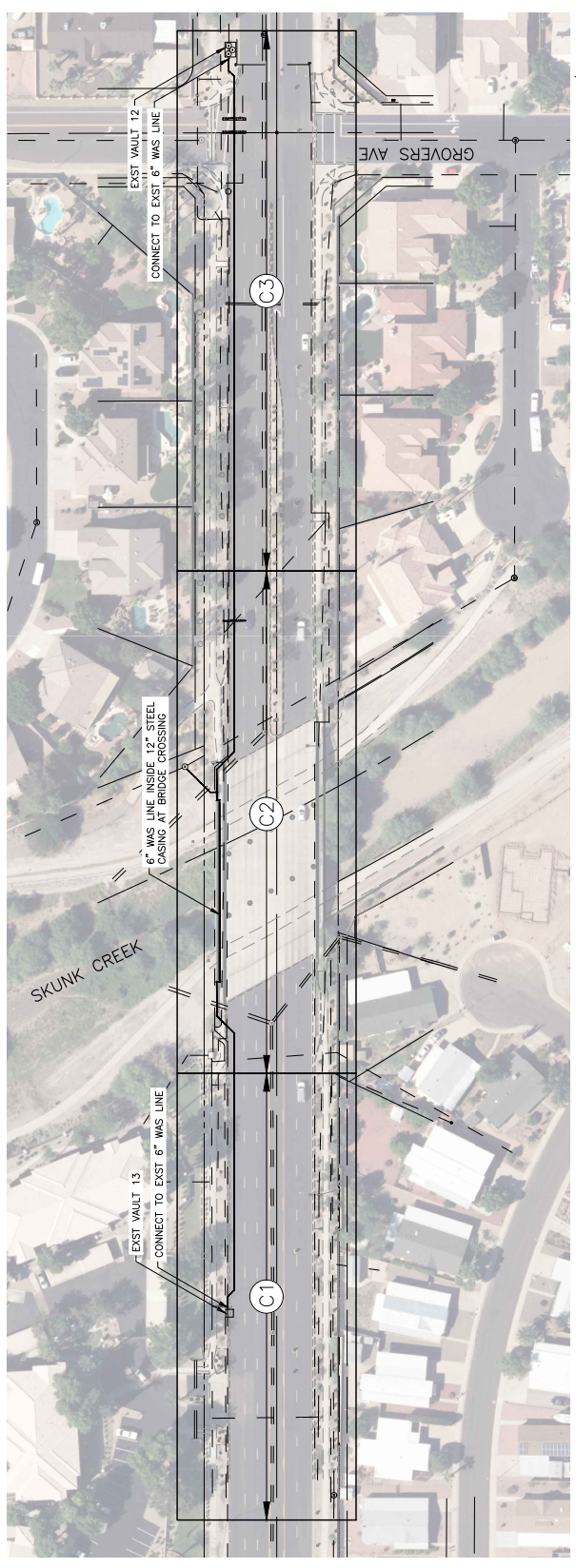
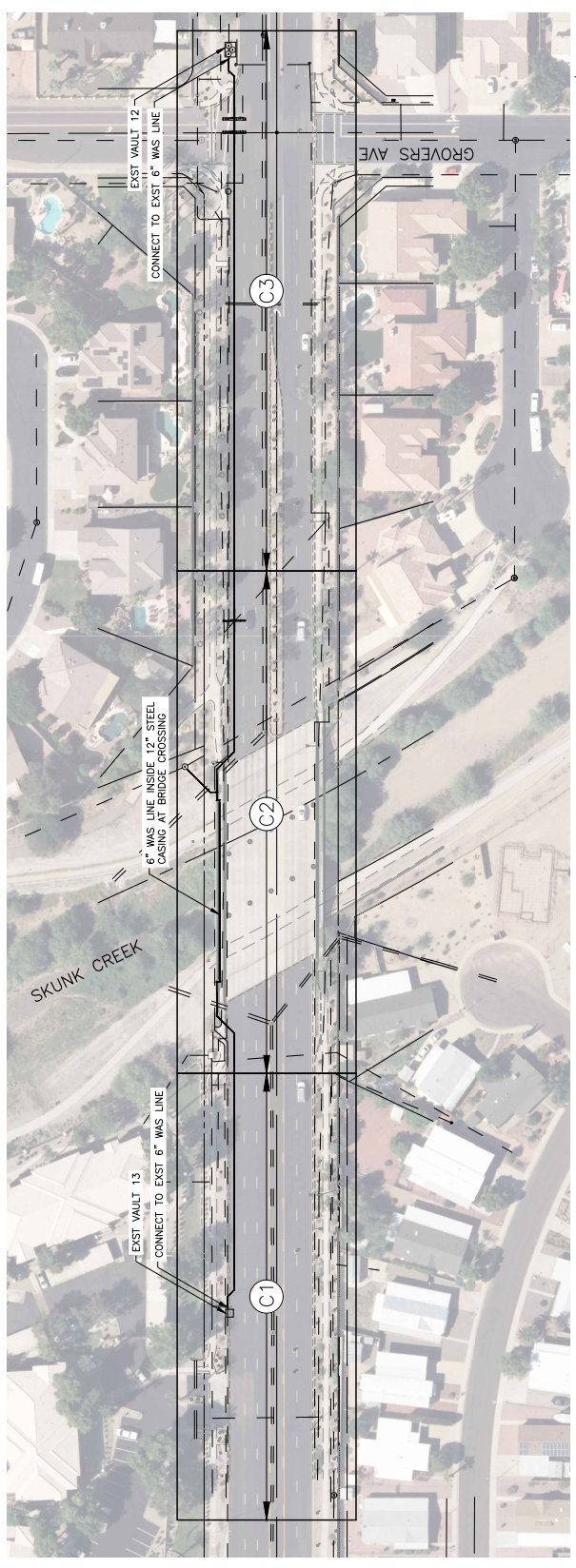
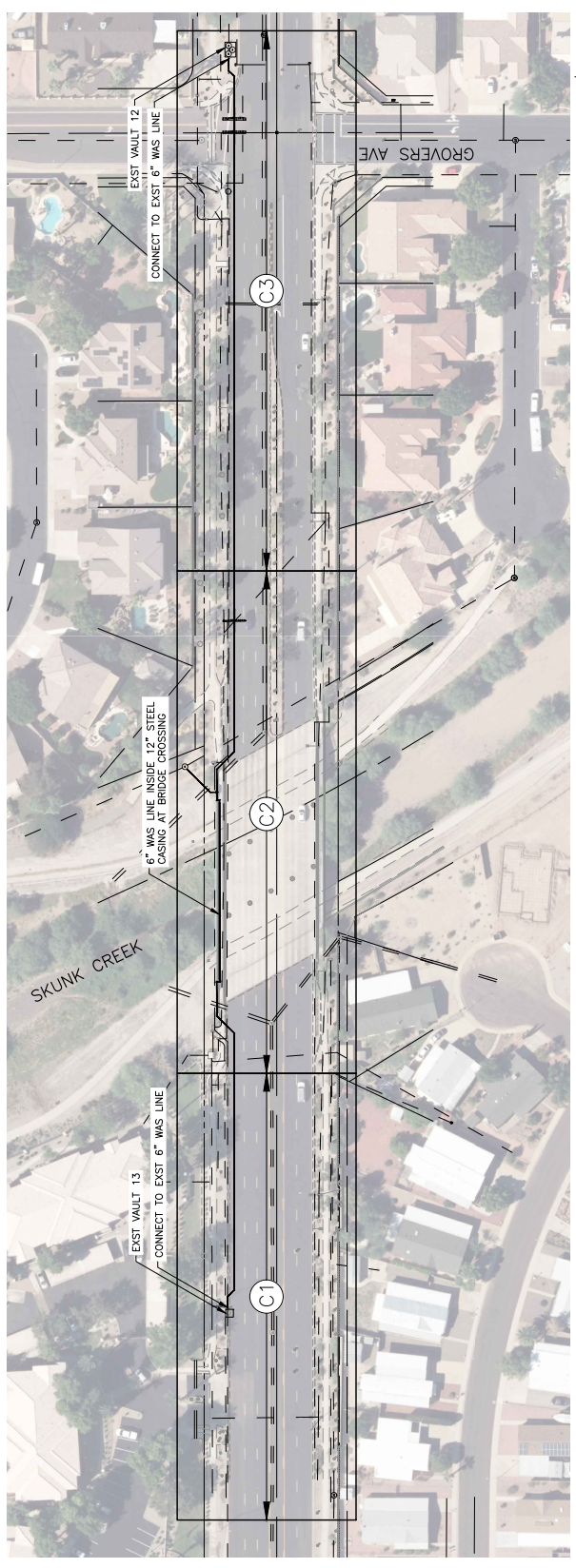
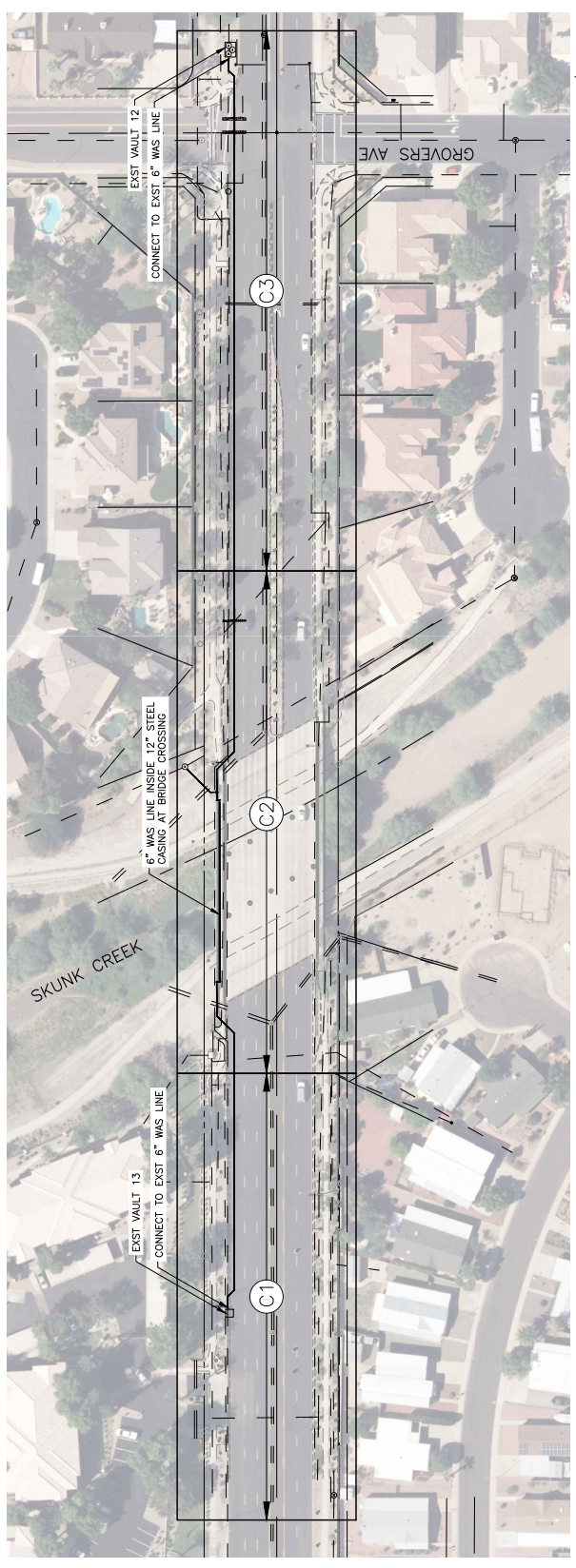
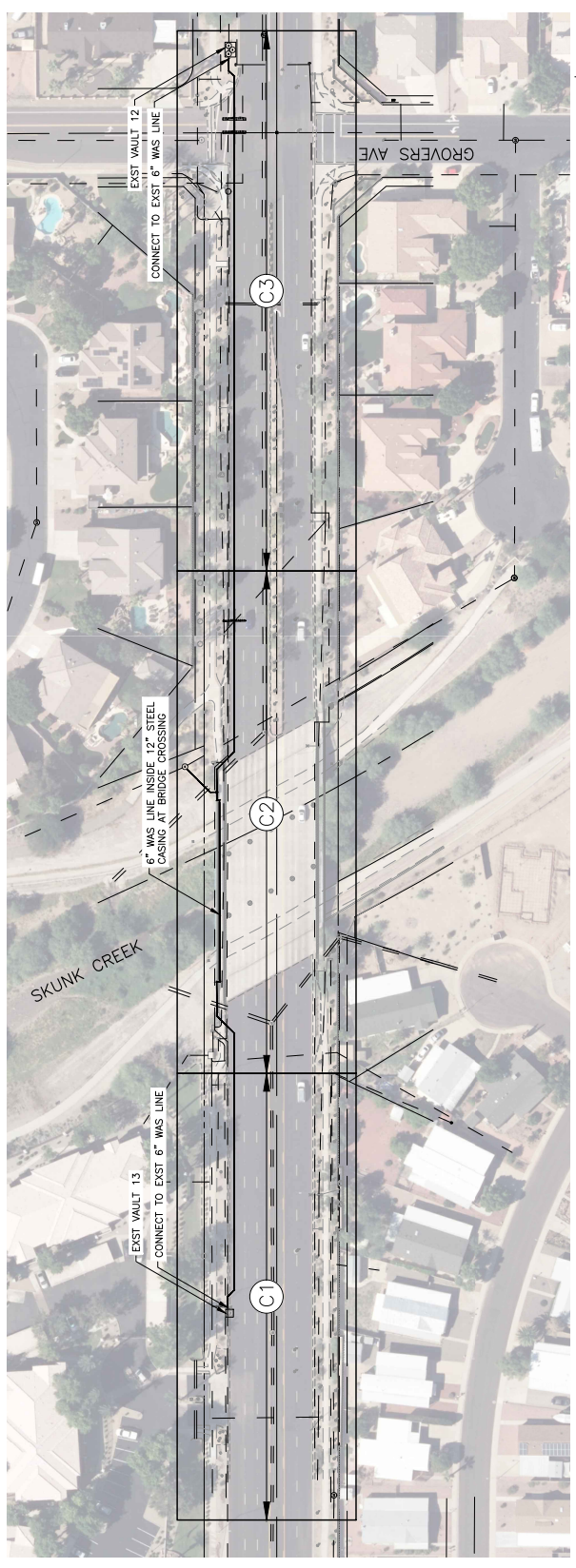
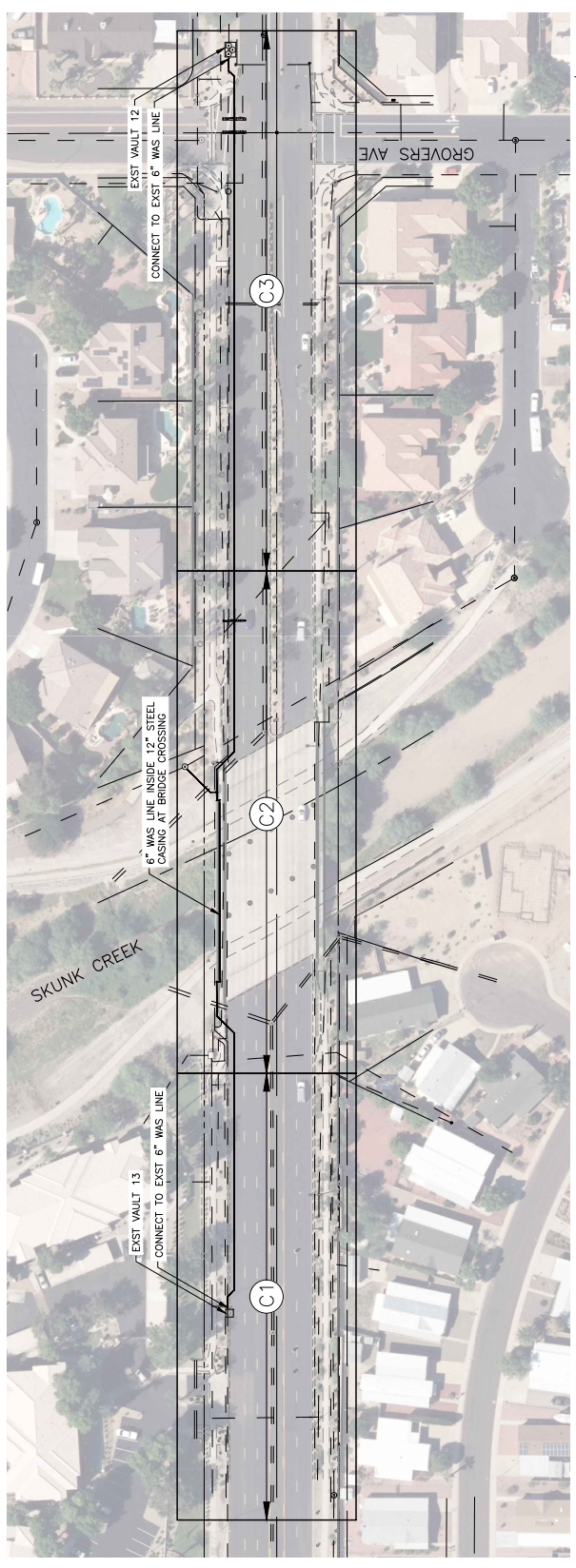
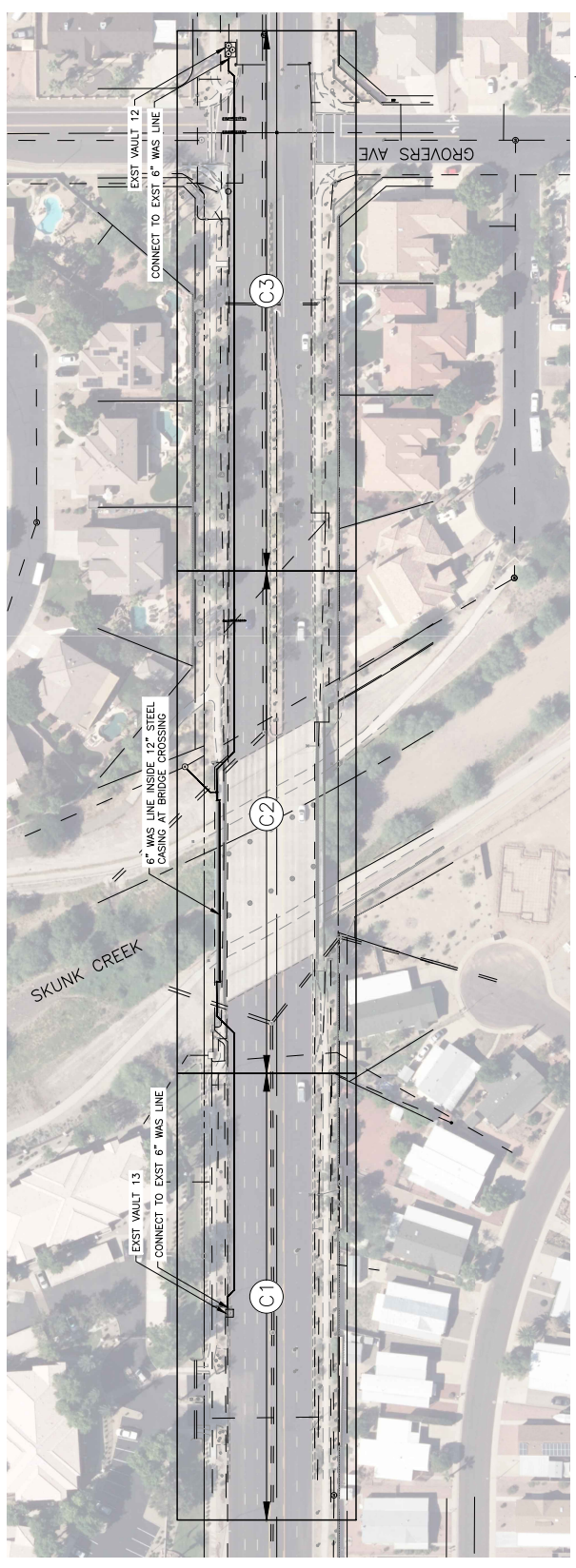
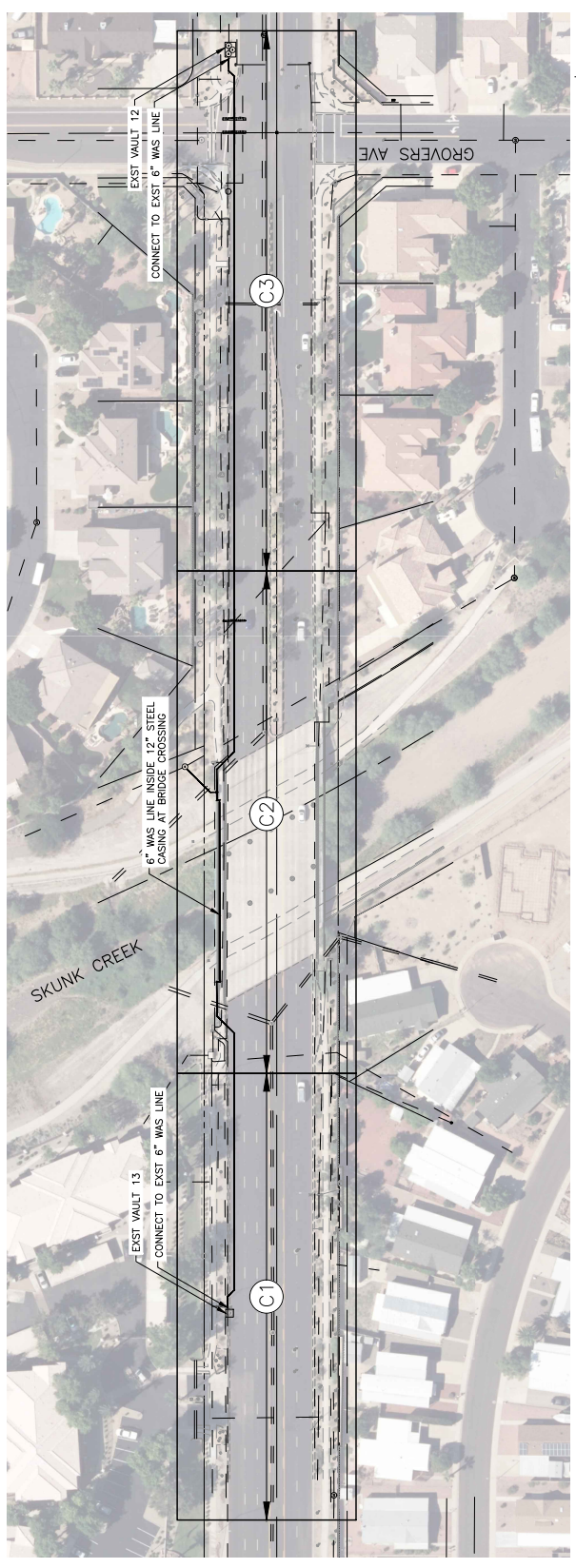
PROFILE ELEVATIONS LEGEND

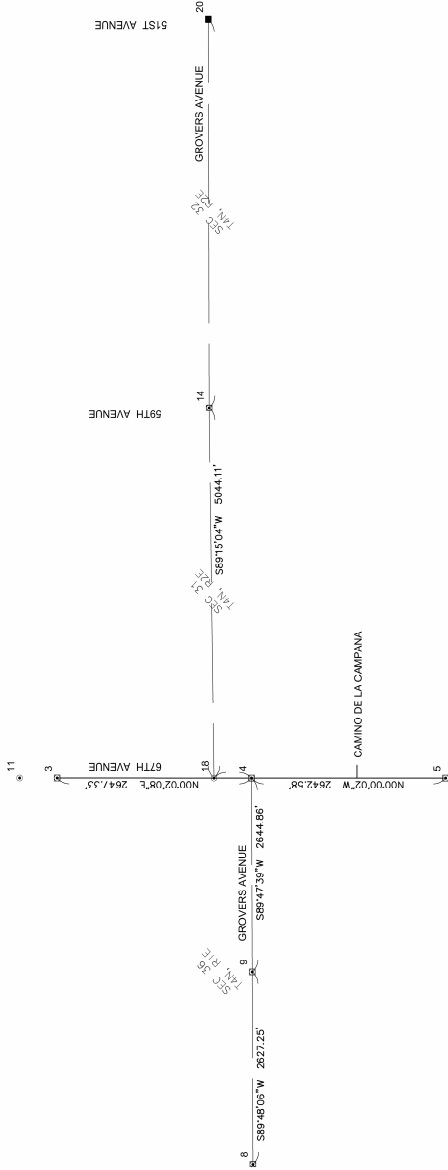
(U) = UNKNOWN

(S) = FIELD MEASUREMENT - SURVEY

(PH) = FIELD MEASUREMENT - POTHOLE

(R) = RECORD DRAWING (DESIGN/AS-BUILT)





POINT DATA TABLE		POINT DATA ELEVATION		DESCRIPTION
POINT NO	GROUND NORTHING	GROUND EASTING	DATA	DESCRIPTION
3	965317.425	112972.950	1244.76	FN0-30CH COG
4	962570.094	112972.912	1233.66	FN0-30CH COG
5	960227.513	112972.343	1231.82	FN0-30CH WCHD
6	962651.493	507792.532	1210.15	FN0-30CH COG
8	962656.590	510327.469	1232.13	FN0-30CH MC
11	965928.678	112972.713	1247.19	FN0-30CH MC
14	963247.564	1168016.306	1261.23	FN0-30CH COG
18	963181.445	112972.579	1235.84	FN0-30F COG
20	962539.562	523331.212	1278.42	BN FN-BGHH COG 1278.418

PROJECT # 202104.1
DOWNHEAD SEWER LINES PHASE II
WAS LINE REALIGNMENT
SURVEY CONTROL

BRASS CAP "N" HAND HOLE AT THE INTERSECTION OF 51ST AVE AND GROVER STREET, BEARING 129°52'52" E, DISTANCE 12.17' TO OBSERVED GROUND EASING. E3311112.17' PUBLISHED ELEVATION = 278.418'

15. THE COORDINATES PRESENTED ARE SHOWN TO THREE DECIMAL PLACES FOR CALCULATION PURPOSES AND ARE NOT REPRESENTATIVE OF THE PRECISION OF THE SURVEY MEASUREMENTS

16. THIS IS NOT A PROPERTY BOUNDARY SURVEY.

SURVEYOR'S NOTES

1. COORDINATES WERE VERIFIED IN THE FIELD USING REAL TIME KINEMATIC GPS OBSERVATIONS RELATIVE TO PUBLISHED CONTROL POINTS.

2. SURVEYED DURING THE MONTH OF JULY 2024.

3. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROLS IN THE FIELD PRIOR TO CONSTRUCTION.

4. PROJECT METADATA:

HORIZONTAL DATUM (BASIS OF BEARINGS):

NAD83 (2011 EPOCH) ARIZONA CENTRAL ZONE, GROUND

HORIZONTAL ADJUSTMENT:

LEAST SQUARES ADJUST (CSF) 1.000/5

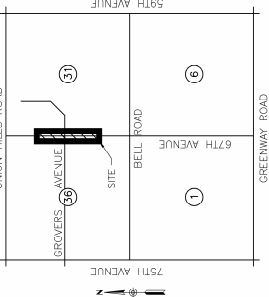
VERTICAL DATUM (CSF) 1.000/5

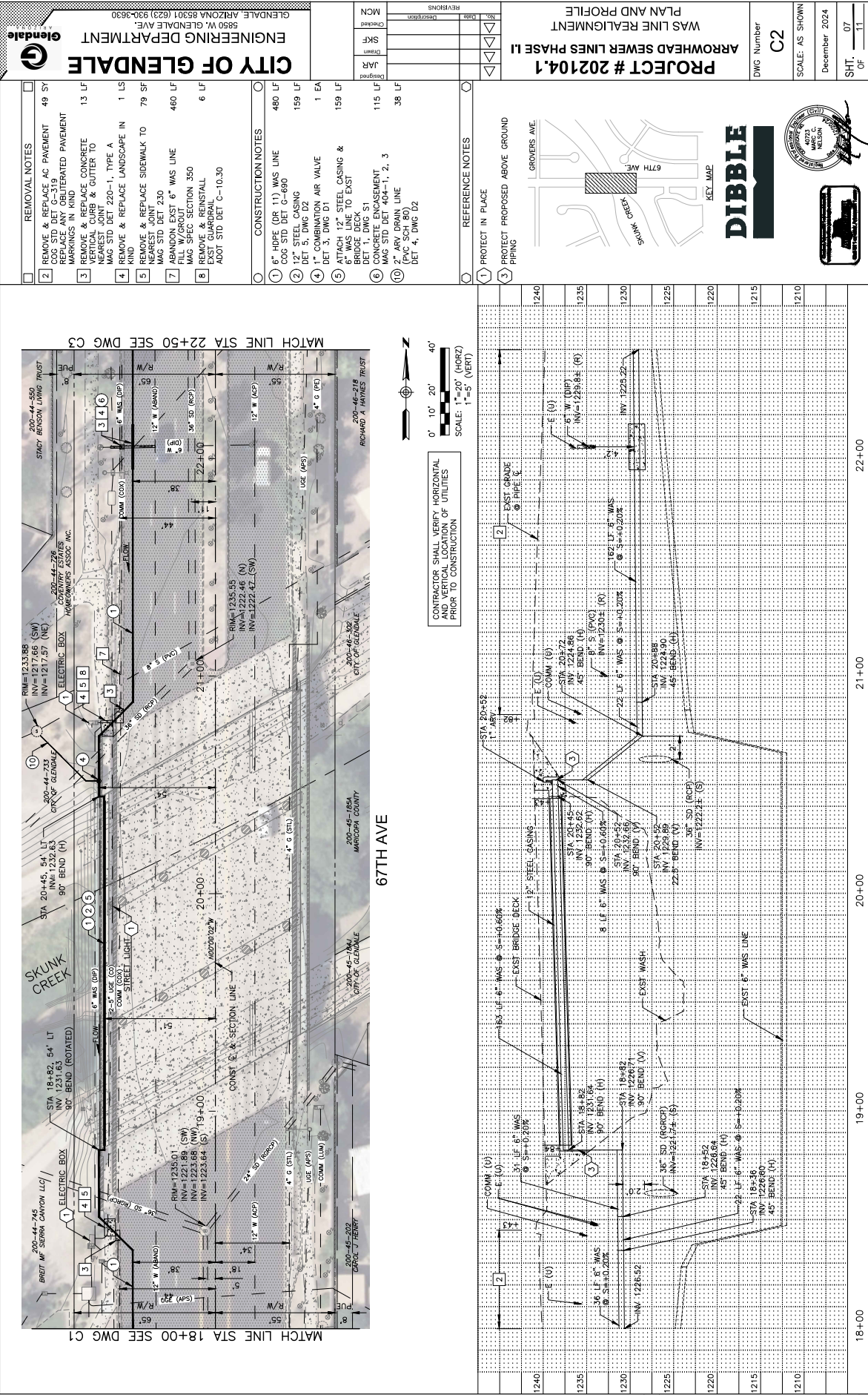
GRID EASTING (CSF) = GROUND EASTING

VERTICAL DATUM:

NVD09

PROJECT FIELD MARK:





PROJECT # 202104.1

ARROWHEAD SEWER LINES PHASE II

WAS LINE REALIGNMENT

PLAN AND PROFILE

PLAN AND PROFILE

ARROWHEAD SEWER LINES PHASE II

WAS LINE REALIGNMENT

PROJECT # 202104.1

DATE: 11/07/2024

BY: J. NELSON

SCALE: AS SHOWN

DWG Number: C2

REVISIONS

NO.

DESCRIPTION

DATE

BY

CHKD

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**Arrowhead Sewer Lines Phase 1.1
Waste Activated Sludge (WAS) Line Realignment**

Contract No.: 202104.01

TECHNICAL SPECIFICATIONS

Submitted To:

CITY OF GLENDALE

December 20, 2024

Mayor

Jerry P. Weiers



A handwritten signature in black ink, likely belonging to Marc C. Nelson, positioned below the professional seal.

City Council

Ray Malnar
Bart Turner
Ian Hugh
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Prepared by:

DIBBLE



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Arrowhead Sewer Lines Phase 1.1 Waste Activated Sludge (WAS) Line Realignment

TECHNICAL SPECIFICATIONS

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SECTION 01010 SUMMARY OF WORK

PART 1 - GENERAL

1.01 SCOPE

- A. All construction shall be provided in accordance with the requirements of the 2015 City of Glendale Engineering Design Standards & Details and the 2024 revision to the 2024 Maricopa Association of Government (MAG) Standard Specifications and Details for Public Works Construction.
- B. The Contractor shall provide all materials, equipment, and labor necessary to realign the waste activated sludge line as described in the project Drawings and Technical Specifications.
- C. Major work to be performed under this contract includes, but is not limited to the following:
 - 1. Provide traffic control as necessary for waste activated sludge line realignment. Traffic control plans shall be submitted to the City for approval and receive a traffic control permit prior to construction activities.
 - 2. Restore area disturbed by construction activities back to pre-construction conditions.
 - 3. Provide coordination with Public Outreach Consultant provided by the City for notification of construction activities to the general public, if applicable.
 - 4. Coordinate work activities with adjacent businesses, public events and special needs (e.g. medical and emergency response).
 - 5. Maintain access to private properties including sidewalks and driveways during the course of the work.

1.02 UTILITIES

- A. The Contractor shall field locate and verify the horizontal and vertical location of all pipe along with wet and dry utilities prior to conducting any excavation work.
- B. The Contractor is required to contact Arizona 811, formerly Blue Stake, at 811 at least two (2) working days prior to start of any excavation.
- C. Quarter Section maps of the City's sanitary sewer collection system are available upon request from the City. It shall be the responsibility of the Contractor to coordinate and obtain copies of these maps. The Contractor shall not solely rely upon the information contained in the mapping and shall field verify for accuracy.

SECTION 01010
SUMMARY OF WORK

1.03 FLOW CHARACTERISTICS

- A. The waste activated sludge pipeline receives flows from the Arrowhead Ranch Waste Reclamation Facility. The Contractor shall coordinate with the treatment facility to allow all treatment processes to be maintained by the City and to transport the sludge from Arrowhead Ranch Waste Reclamation Facility to its discharge point for the duration of the project.

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

(NOT USED)

**** END OF SECTION ***

PART 1 - GENERAL

1.01 CONTINUITY OF PUBLIC AND PRIVATE FACILITY OPERATIONS

Work under this Contract shall be planned, scheduled and performed to minimize disruption to the operation of existing business, facilities, surrounding residents and the traveling public. The Contractor shall provide all equipment and facilities necessary to maintain flow through and/or around existing facilities. Contractor shall be responsible for traffic control to redirect the flow of traffic through and/or around the work area, including pedestrian traffic.

1.02 PROJECT COMPLETION

The project shall be completed within the contract time as outlined in the Construction Contract.

1.03 PROJECT CONSTRUCTION COORDINATION

- A. At the Pre-construction Meeting, the Contractor shall designate a Representative who will be on the job and available for communication at all times for the duration of the construction contract. The Contractor's Representative shall be available 24 hours a day by mobile telephone, home telephone, or other means acceptable to the City or City's Representative. The Contractor's Representative shall be the contact person representing the Contractor and shall be capable of giving direct field orders as the need arises. Official job communication shall be conducted between Contractor's Representative and the City.
- B. The Contractor shall obtain written approval from the City's Representative 72 hours in advance of any change in the Contractor's daily work schedule. Work performed at times other than the approved schedule must first be approved by the City's Representative, except in case of emergency.
- C. The Contractor's Representative shall attend construction progress meetings on a weekly basis or as scheduled by the City's Representative. Location of the meetings shall be determined by the City's Representative. The Contractor shall present and distribute copies of a three-week look-ahead schedule, report on status of any resident concerns reported, any Traffic Control Plan updates, and upcoming construction activity coordination.
- D. The Contractor's Representative shall be responsible for coordination of the work schedule. It shall be the responsibility of the Contractor to sequence work to resolve conflicts with ongoing adjacent construction (if any), and schedule work accordingly to minimize disruption. The City will not entertain Contractor claims for additional

SECTION 01014

WORK SEQUENCE

compensation arising out of construction delays caused by adjacent construction work. City may at its sole discretion grant an extension of contract time due to unforeseen delays caused by adjacent construction activity conflicts.

1.04 SCHEDULING AND SEQUENCING CONSTRAINTS

- A. The Contractor shall realign the waste activated sludge (WAS) line identified in the Construction Documents. Once construction activities commence, the Contractor shall continue uninterrupted until all work identified is completed.
- B. No construction activities shall begin on-site until a plan to coordinate with the City to transport waste sludge from the Arrowhead Ranch Water Reclamation Facility is submitted to the City and approved.
- C. No construction activities shall begin on-site until all required submittals are transmitted to the City or City's Representative and returned stamped with "No Exceptions Taken" or "Make Corrections Noted".
- D. The Contractor shall receive written approval from the property owner of equipment storage sites and/or corridors used for facility access (if any). Maps depicting locations of the equipment storage sites and copies of signed agreements shall be submitted to the City's Representative prior to occupancy.
- E. Traffic control shall remain in effect as dictated by the approved Traffic Control Plan and Permit until all work is completed and inspected. Contractor shall maintain access to all private properties within the project area on a 24-hour basis unless written approval is otherwise obtained from property(s) owners for reduced access. Copies of all written approvals shall be provided to the City or City's Representative prior to work commencing. Refer to Technical Specification Section 02100 – TRAFFIC CONTROL.
- F. Odor control shall be provided at all times during the construction work. The odor control plan shall be submitted to the City's Representative at the project progress meeting prior to commencement of work within the individual work area.
- G. The Contractor shall perform a detailed inspection of the work to confirm completion of all work items and conformance to the project Technical Specifications. Final inspection of the work will be carried out by the City or City's Representative after receipt of the Contractor's written request for final inspection.
- H. After receipt of the Contractor's written notice of work completion, the City or City's Representative will perform a detailed inspection and will create a punch list of omissions and defects observed. Punch list items shall be promptly corrected by the Contractor. The Contractor shall then schedule a time for the final inspection by the City or City's Representative upon satisfactory completion of the punch list items. All costs associated with additional inspections after the final inspection, including the City's Representative's time and inspection costs, shall be the responsibility of the Contractor.

1.05 CONTRACTOR WORK HOURS

- A. The Contractor shall ensure adequate resources are available to complete all work within regular business hours per City of Glendale-Code of Ordinances Chapter 25, Part V.25-68 Construction of Buildings and Other Projects, unless an appropriate permit has been obtained beforehand from the City.
- B. Work at night to minimize disruption to area residents or businesses may be required. It shall be the responsibility of the Contractor to apply for the necessary permits for the extended work hours.

PART 2 - PRODUCTS
(NOT USED)

PART 3 - EXECUTION
(NOT USED)

**** END OF SECTION ****

SECTION 01014
WORK SEQUENCE

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SECTION 01015

CONTRACTORS USE OF PREMISES

PART 1- GENERAL

1.01 OWNER’S RESPONSIBILITIES

- A. The City of Glendale operations personnel is responsible for operating the existing sewers, WAS line and facilities throughout the execution of this Project.

1.02 CONTRACTOR’S RESPONSIBILITIES

- A. Sewage treatment and WAS disposal shall remain in operation throughout the performance of this Project. All coordination between the City’s operations personnel and the Contractor on all matters shall be through the City’s Representative unless otherwise approved in writing by the City.

1.03 USE AND OPERATION OF EXISTING FACILITIES

- A. All costs, coordination, permits, and fees associated with the location of staging areas, material storage, equipment storage, and site trailer location (if applicable) shall be the responsibility of the Contractor. The Contractor shall submit copies of individual landowner agreements (if present) to the City. All disturbed areas shall comply with the dust control permit required by Maricopa County Air Quality Department as specified in Technical Specification Section 01062 – PERMITS AND EASEMENTS.

1.04 TRAFFIC:

- A. The Contractor shall comply with Technical Specification Section 02100 – TRAFFIC CONTROL.

1.05 DAMAGE TO EXISTING PROPERTY

- A. Contractor shall be responsible for any damage to existing structures, piping, work, materials, or equipment caused by its operations, and shall repair or replace any damaged structures, piping, work, materials or equipment, etc., to the satisfaction of the City, and at no additional cost to the City.
- B. Contractor shall protect all existing structures and property from damage.
- C. Contractor shall be responsible for all damage to streets, roads, curbs, sidewalks, walking trails, driveways, ditches, embankments, drainages, floodways, landscaping, or other public or private property, which may be caused by the work including transporting equipment, materials, or workers to or from the work. Contractor shall make satisfactory and acceptable arrangements with the agency having jurisdiction over the damaged property concerning its repair or replacement and/or as specified in

SECTION 01015
CONTRACTORS USE OF PREMISES

these Technical Specifications.

- D. Contractor shall be responsible for any and all damage to private property as caused by the Contractor's operations including but not limited to waste sludge and sewage spills/backups.

1.06 RESIDENT SERVICES

PART 2 - PRODUCTS
NOT USED

PART 3 - EXECUTION
NOT USED

**** END OF SECTION ****

SECTION 01060

HEALTH AND SAFETY

PART 1 - GENERAL

1.01 HEALTH AND SAFETY REGULATIONS

- A. The Contractor shall exercise precaution at all times for the protection of persons (including employees) and property. The Contractor shall comply with the provisions of all applicable laws, pertaining to such protection including all federal, state and local occupational safety and health acts, codes, standards and regulations promulgated thereunder. Contractor shall have copies of, but not limited to, confined space entry permit on-site and available for review any time work activities are commencing.
- B. Contractor shall comply with the provisions of the Federal Occupational Safety and Health Act, as amended.
- C. Contractor shall comply with the provisions of the Maricopa County Air Quality Department.
- D. The Contractor shall provide and maintain in a neat, sanitary condition such accommodations for the use of the employees as may be necessary to comply with the requirements and regulations of the Arizona Department of Health Services and/or as specified by the Maricopa County Public Health Department, Sanitary Code.
- E. The Contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions reasonably necessary to protect the life and the health of employees on the job, the safety of the public, and to protect property in connection with the performance of the work covered by this contract.

1.02 SPECIAL CONSIDERATIONS

A. GENERAL

This Technical Specification Section describes certain minimum precautions the Contractor shall consider in developing its health and safety program. It supplements the regulatory requirements of Paragraph 1.01 and the requirements of the General Conditions. WAS line appurtenant vault structures are considered confined spaces and are subject to federal, state, and local regulations governing confined space entry and safety procedures.

B. INFECTIOUS DISEASES:

Contractor should anticipate that a wide spectrum of disease-producing organisms will be present in the sewer. In addition to the requirements set forth in the regulations described in Paragraph 1.01 above, the Contractor shall provide the following as a

SECTION 01060

HEALTH AND SAFETY

minimum:

1. Instruction in appropriate disease-prevention mechanisms and personal sanitation practices for all workers and supervisors.
2. A preventative inoculation program (tetanus/diphtheria, hepatitis, etc.) to all workers and supervisors.
3. Clothing to protect against infection, including rubber boots with full sole and heel steel insert-liners, safety glasses or goggles, and gloves to all workers and supervisors.

C. DANGEROUS GASES AND OXYGEN DEFICIENCY:

WAS line vault structures are confined spaces, which mean they have a limited means of egress and may be subject to the accumulation of dangerous gases or oxygen deficiency. Volatile petroleum products and common household hazardous materials may be present within the WAS line. Explosive gases, such as methane generated from decomposing organic material, may be accumulated. Toxic gases, such as hydrogen sulfide, may be present in life-threatening concentrations. Significant oxygen depletion may occur. In addition, construction procedures may require combustion engine machinery to be located in or near the work site. Therefore, gaseous combustion by-products, such as carbon monoxide, may be present.

In addition to the requirements set forth in the regulations described in Paragraph 1.01 above, the Contractor shall provide the following:

1. Portable atmospheric monitors that measure levels of oxygen, explosive gas (methane), carbon monoxide, and toxic gas (hydrogen sulfide). Monitors shall be properly calibrated and carefully maintained throughout the construction period. Monitors shall be used continuously while personnel are in confined spaces.

D. TOXIC CHEMICALS:

Toxic chemicals may be part of the construction process. The Contractor shall abide by all handling procedures recommended by the manufacturer when dealing with toxic chemicals.

1.03 SUBMITTALS

Contractor shall submit a Health and Safety Plan according to Technical Specification Section 01300 – SUBMITTALS. The City does not approve Contractor safety plans but can issue stop work orders to the contractor if an unsafe condition has been observed.

PART 2 - PRODUCTS

2.01 HEALTH AND SAFETY PLAN

A. GENERAL

The Contractor shall develop and maintain for the duration of the Contract three copies of a Health and Safety Plan that will effectively incorporate and implement all required health and safety precautions. At least one copy shall be located on the Contractor's work site.

B. COMPLIANCE

The Contractor shall appoint an on-site employee who is qualified, trained and authorized to supervise and enforce compliance with the Health and Safety Plan. The Contractor is responsible for ensuring that necessary gas monitoring, protective clothing, and other supplies and equipment as specified are available to implement this Plan.

C. REVISIONS

In the event that regulatory agencies or jurisdictions determine the Health and Safety Plan to be inadequate to protect employees and the public:

1. The Contractor shall stop the work in progress until adequate safety measures are implemented.
2. The Contractor shall modify the Plan to meet the requirements of said regulatory agencies, jurisdictions, and the City.
3. The Contractor shall notify the City and the City's Representative immediately when a notification of deficiency is issued by another agency and/or jurisdiction.
4. The Contractor shall provide the City and City's Representative with the revisions to the Plan within two (2) days of the notice of deficiency.

D. MINIMUM CONSIDERATIONS

The Health and Safety Plan shall, as a minimum, include the following considerations:

1. Objective.
2. Key personnel and responsibilities.
3. Hazard analysis of the work activities and environment.

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HEALTH AND SAFETY

4. Training requirements, including contractor's and sub-contractor's authorized personnel and qualifications for work in confined spaces.
5. Personal protective equipment.
6. Confined Space Entry Plan.
7. Fall protection plan and tie-off points.
8. Site control measures.
9. Work practices, decontamination procedures, and work limitations.
10. Emergency procedures, including sewer evacuation plan, location of first aid, fire extinguishers, eyewash, drinking water, map showing route to nearest medical facility, list of key personnel who are currently certified in first aid/CPR.
11. Job site cleanup, and spill containment and cleanup procedures.
12. Telephone numbers:
 - a. 24-hour number to contact Contractor's Representative.
 - b. Emergency services.
 - c. City's Project Manager.
 - d. City's Representative.
13. Documentation (training, injury or illness, respirator-fit tests, hazards notification log, etc.).

PART 3 - EXECUTION
(NOT USED)

**** END OF SECTION ****

SECTION 01062 PERMITS AND EASEMENTS

PART 1 - GENERAL

1.01 EASEMENTS

WAS line and vault structures may be located in the City of Glendale right-of-way or utility easements. Contractor shall be responsible to obtain permits or permissions to access all applicable areas and to limit construction activities to within these areas.

1.02 PERMITS TO BE OBTAINED BY THE CONTRACTOR

Contractor shall obtain any additional permits and access agreements required by the work and shall pay all costs thereof, including agency inspections. The Contractor shall comply with all applicable terms and conditions therein and provide copies to the City's Representative before working in areas covered by those permits. The following permits, but not necessarily limited to the following, shall be obtained by the Contractor if applicable to the work:

- 1) Occupational Safety and Health Association (OSHA):**
 - a) Confined Space Entry Permit.
- 2) Arizona Department of Environmental Quality (ADEQ):**
 - a) Stormwater Pollution Prevention Plan (SWPPP).
- 3) Maricopa County Air Quality Department:**
 - a) Dust Control Permit.
- 4) City of Glendale:**
 - a) Right-of-Way Permit.
 - b) Traffic Control Permit.
- 5) Others:**
 - a) Debris Disposal Permit(s).
 - b) as applicable.

1.03 POSTING

Permits shall be posted (or available for review) at the site of the work at all times work is commencing. All permits shall be submitted to the City in accordance with Technical Specification Section 01300 – SUBMITTALS.

SECTION 01062
PERMITS AND EASEMENTS

PART 2 – PRODUCTS
(NOT USED)

PART 3 - EXECUTION
(NOT USED)

**** END OF SECTION ****

SECTION 01064 INSPECTION AND TESTING

PART 1 - GENERAL

1.01 INSPECTION AND TESTING OF MATERIALS

All workmanship and materials shall be subject to inspection by the City or City's Representative, who may select samples of materials in such a quantity as the City's Representative may deem necessary to determine their qualities, as herein specified. Any samples taken shall be at the discretion of the City and shall be in addition to those required to be taken by the Contractor as specified in these Technical Specifications, manufacturer's recommendations, and permits requiring test results. The City or City's Representative will accept or reject the materials in accordance with the results of such trials or from test results submitted from an independent testing laboratory. All rejected materials shall be promptly replaced to the satisfaction of the City or City's Representative. The Contractor shall assist the City or City's Representative by providing access to the location where the work is in progress. The Contractor shall replace rejected work and materials and bear all costs for doing so.

Non-rejection or non-inspection of materials does not constitute acceptance by the City or the City's Representative.

The City or City's Representative inspection will be provided on an 8-hour per day, 5-day per week basis, excluding weekends and holidays. The Contractor shall not schedule any overtime work which requires inspection or material testing without written permission from the City or City's Representative two (2) working days before the proposed overtime work. The City reserves the right to deny the requested overtime. If an overtime request is denied, the City may extend the contract time at no additional cost to the City.

1.02 SPECIAL INSPECTIONS

Special inspections will be required for attaching the WAS line and casing pipe to the bridge. The Contractor shall notify the engineer at least 48 hours in advance of structural work.

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

(NOT USED)

**** END OF SECTION ****

SECTION 01064
INSPECTION AND TESTING

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SECTION 01071 STANDARD REFERENCES

PART 1 - GENERAL

1.01 ABBREVIATIONS

Wherever used in the Contract Documents, the following abbreviations will have the meanings listed:

AAC	Arizona Administrative Code 1700 West Washington, 7th Floor Phoenix, AZ 85007-2808
AASHTO	American Association of State Highway and Transportation Officials 444 North Capitol Street, N.W., Suite 249 Washington, D.C. 20001
ACI	American Concrete Institute 38800 Country Club Drive Farmington Hills, MI 48331-3439
ADEQ	Arizona Department of Environmental Quality 1110 West Washington Street Phoenix, AZ 85007
ADOT	Arizona Department of Transportation 206 South 17th Avenue Phoenix, AZ 85004
ADWR	Arizona Department of Water Resources 3550 North Central Avenue, Suite 200 Phoenix, AZ 85012
AEIC	Association of Edison Illuminating Companies 600 North 18 th Street Birmingham, AL 35203
AISC	American Institute of Steel Construction, Inc. 130 East Randolph, Suite 2000 Chicago, IL 60601
AISI	American Iron and Steel Institute 25 Massachusetts Avenue, N.W., Suite 800 Washington, D.C. 20001

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STANDARD REFERENCES

Ameron	Ameron International Protective Lining Products 8000 Research Forest Drive Suite 115-118 The Woodlands TX 77382
ANSI	American National Standards Institute, Inc. 1899 L Street, N.W., 11 th Floor Washington, D.C. 20036
API	American Petroleum Institute 1220 L Street, N.W. Washington, D.C. 20005
ASCE	American Society of Civil Engineers 1801 Alexander Bell Drive Reston, Virginia 20191
ASCII	American Standard Code for Information Interchange United States of America Standards Institute 10 East 40th Street New York, NY 10016
ASTM	American Society for Testing and Materials 100 Barr Harbor Drive P.O. Box C700 West Conshohocken, PA 19428-2959
AT & SFRR	Atchison, Topeka and Santa Fe Railroad
AWS	American Welding Society 8669 N.W. 36 th Street, Suite 130 Miami, FL 33166-6672
AWWA	American Water Works Association 6666 West Quincy Avenue Denver, CO 80235
BOCA	Building Officials and Code Administrators 7926 Halstead Homewood, IL 60430

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STANDARD REFERENCES

CFR	Code of Federal Regulations Superintendent of Documents Government Printing Office Washington, D.C. 20402
CMAA	Crane Manufacturers Association of America, Inc. (Formerly called: Overhead Electrical Crane Institute) (OECI) 8720 Red Oak Boulevard, Suite 201 Charlotte, NC 28217-3992
CRSI	Concrete Reinforcing Steel Institute 933 North Plum Grove Road Schaumburg, IL 60173-4758
COG	City of Glendale 5850 W. Glendale Avenue Glendale, Arizona 85301
EEI	Edison Electric Institute 701 Pennsylvania Avenue, N.W. Washington, D.C. 10016
FEDSPEC	Federal Specifications General Services Administration Specification and Consumer Information Distribution Branch Washington Navy Yard, Building 197 Washington, DC 20407
FEDSTDS	Federal Standards (see FEDSPECS)
FCDMC	Flood Control District Maricopa County 2801 West Durango Street Phoenix, AZ 85009
IES	Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005-4001
MAG	Maricopa Association of Governments 302 North 1 st Avenue, Suite 300 Phoenix, AZ 85003

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STANDARD REFERENCES

MCESD	Maricopa County of Environmental Services Department 1001 North Central Avenue, Suite 200 Phoenix, AZ 85004
NACE	National Association of Corrosion Engineers 15835 Park Ten Place Houston, TX 77084
NASSCO	National Association of Sanitary Service Companies 2470 Longstone Lane, Suite M Marriottsville, MD 21104
NFPA	National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471
NPDES	National Pollutant Discharge Elimination System U.S. Environmental Protection Agency National Pollutant Discharge Elimination System Program Office of Water, Office of Wastewater Management 1200 Pennsylvania Avenue, N.W. (Mail code 4203M) Washington, D.C. 20460
OSHA	Occupational Safety and Health Act U.S. Department of Labor Occupational Safety and Health Administration 200 Constitution Avenue, N.W. Washington, D.C. 20210
RID	Roosevelt Irrigation District 103 West Baseline Road Buckeye, AZ 85326
SWPPP	Storm water Pollution Prevention Plan Environmental Protection Agency, Region 9 75 Hawthorne Street, San Francisco, CA
UBC	Uniform Building Code Published by ICBO
UL	Underwriters Laboratories Inc. 207 East Ohio Street Chicago, IL 60611

WABO

Washington Association of Building Officers
Post Office Box 7310
Olympia, WA 98507

PART 2 - PRODUCTS
(NOT USED)

PART 3 - EXECUTION
(NOT USED)

**** END OF SECTION ****

SECTION 01071
STANDARD REFERENCES

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SECTION 01102

CONTRACTORS HAZARDOUS MATERIALS MANAGEMENT PROGRAM

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The Contractor shall Comply with all Federal, State, and local rules and regulations related to environmental protection and environmental safety including, but not limited to, the following:
1. Title 29 Code of Federal Regulations Parts 1910, Occupational Safety and Health.
 2. Title 40 Code of Federal Regulations, Protection of Environment.
 3. Title 49 Code of Federal Regulations, Transportation.
 4. State Occupational Safety and Health Administration (OSHA).
 5. Arizona Department of Environmental Quality (ADEQ).
 6. Arizona Department of Water Resources (ADWR).
 7. Maricopa County Air Pollution Control Regulations.
 8. Maricopa County Air Quality Department Regulations.
- B. In order to ensure the City that the Contractor is complying with the intent of the regulations stated in Paragraph 1.01.A above, as they relate to the on-site use of hazardous materials, hazardous wastes and other substances similarly defined in those regulations, develop and maintain a Contractor's Hazardous Materials Management Program that includes as a minimum, but is not limited to the requirements specified herein. The interests of the City are that accidental spills, site contamination, and injury of personnel on the site are avoided. The City will not enforce suspected violations of the rules and regulations referenced in Paragraph 1.01.A above, however the City will notify the Contractor of suspected violations. If in the opinion of the City, the Contractor fails to address the suspected violations in a timely and appropriate manner, the City will notify federal, state, or local regulatory agencies, report the suspected violations to them, and request that they inspect the Contractor's operations. Any fines that may be levied against the City for violations committed on the site by the Contractor, as well as any costs associated with cleanup of materials, shall be paid by the Contractor or compensation to the Contractor shall be reduced by equal amount to reimburse the City. All documents required by the program shall be made available to the City's Environmental Representative immediately, upon request.

SECTION 01102
CONTRACTORS HAZARDOUS MATERIALS
MANAGEMENT PROGRAM

- C. Responsibility for any hazardous waste, as defined in any of the above listed regulations, and those generated by the Contractor, belongs to the Contractor. If the Contractor is going to generate, or has generated, a substance that qualifies as a hazardous waste, Contractor must obtain an Environmental Protection Agency (EPA) identification number, listing the Contractor's name and construction site address as the generator of the hazardous waste. Responsibility for the identification, analysis, profiling, transport and disposal of hazardous wastes generated, belongs to the Contractor. The identification number can be obtained from ADEQ. This number shall be provided to the City's Representative within five (5) days after the Notice to Proceed, or before any hazardous materials are brought onto the site.

1.02 HAZARDOUS MATERIALS PROGRAM REQUIREMENTS

- A. Within the regulations listed in Paragraph 1.01.A, above, terms such as hazardous material, hazardous wastes, and similar terms have varying definitions. To dispel confusion regarding what materials fall under the Program Requirements and for the purposes of this section, Hazardous Material is defined as "any material, whether solid, semi-solid, liquid, or gas, which, if not stored or used properly, may cause harm or injury to persons through inhalation, ingestion, absorption or injection, or which may negatively impact the environment through the use or discharge of the material on the ground, in the water (including groundwater), or to the air."
- B. All chemicals brought onto the site must be approved by the City. Prior to bringing any chemical on site, request approval from the City's Environmental Representative for each chemical the Contractor proposes to bring on site. At the time of request, the City's Environmental Representative may request and receive from the Contractor, specific information associated with each chemical. The specific information may include, but is not limited to, SDS, manufacture, vendor, container size(s), number of containers, minimum and maximum volume of material intended to be stored on site, as well a description to the process or procedures in which any requested chemical is to be used. The City, within five (5) working day from receipt of the specific chemical information, will inform the Contractor as to whether the chemical has been approved for use on site.
- C. Maintain on site two notebooks containing (1) a chemical inventory, and (2) current (dated within the past two years) Safety Data Sheets (SDS) for all materials being used on site, whether or not they are defined as a Hazardous Material in Paragraph 1.02.A, above. One notebook shall be kept in the Contractor's on-site office and the other shall be kept in a location specified by the City's Environmental Representative. These notebooks must be kept up to date as materials are brought onto and removed from the site. Copies of SDS sheets for chemicals removed from the site shall be provided to the City's Environmental Representative.

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MANAGEMENT PROGRAM

- D. Develop an emergency/spill response plan, for each hazardous material or class/group of materials. As a minimum, the response plan must address the following:
1. Provide a description of equipment on site available to contain or respond to an emergency/spill of the material.
 2. Notification procedures.
 3. Response coordination procedures between the Contractor, the City, and the City's Representative.
 4. Provide a Site Plan showing the location of stored hazardous materials and location of spill containment/response equipment.
 5. Provide a description of the hazardous material handling and spill response training provided to the Contractor's employees.
- E. In accordance with applicable Laws and Regulations, properly and safely store all hazardous materials, which shall include as a minimum, the following:
1. A designated storage site for hazardous materials that includes secondary containment. The site must include barriers to prevent vehicles from colliding with the storage containers and offer protection from environmental factors such as weather.
 2. Signage in accordance with applicable Laws and Regulations, clearly identifying the hazardous materials storage site.
 3. All hazardous materials containers must bear the applicable Hazard Diamonds.
- F. Properly label all containers of consumable materials, whether or not they are classified as Hazardous Materials under this Section. The name of the Contractor or subcontractor shall be stenciled on any container containing a hazardous material and on any container over five-gallon capacity containing a non-hazardous material. Any container must have a label clearly identifying the contents. If any such unlabeled containers are discovered on the site, the City's Environmental Representative will notify the Contractor. Responsibility to remove such containers belongs to the Contractor. Containers will be properly labeled or removed from the site within one (1) hour. Any containers that are filled from larger containers must also be properly labeled.
- G. The City encourages storage of hazardous materials off site until the materials are needed on site.
- H. Provide all documentation required herein available immediately upon request of the City's Environmental Representative. The Contractor's Safety Representative will

SECTION 01102
CONTRACTORS HAZARDOUS MATERIALS
MANAGEMENT PROGRAM

meet at least monthly with the City's Environmental Representative to review the Contractor's Hazardous Materials Management Program documents, procedures, and inspect the storage site and job site to ensure the requirements specified herein are being complied with. Also, provide the City's Environmental Representative and the City's Representative with copies of all permits obtained from environmental regulatory agencies.

- I. Provide documentation to the City's Representative and the City's Environmental Representative that the Contractor, subcontractors, or others hired by the Contractor making deliveries of hazardous Materials (as defined in Title 49 CFR) to the site are in compliance with Title 49 CFR 172.800 – 172.804, which requires each person who offers for transportation in commerce or transports in commerce one or more of the following hazardous materials, as defined by Title 49 CFR, must develop and adhere to a security plan for hazardous materials that conforms to the requirements of this subpart.

PART 2 – PRODUCTS
(NOT USED)

PART 3 – EXECUTION
(NOT USED)

****END OF SECTION****

SECTION 01300 SUBMITTALS

PART 1 - GENERAL

1.01 GENERAL

Submittals covered by these requirements include manufacturers' information, shop drawings, test procedures, test results, samples, requests for substitutions, and miscellaneous work-related submittals. The Contractor shall furnish all specifications, descriptive data, certificates, samples, tests, methods, schedules, and manufacturer's installation and other instructions as specifically required in the contract documents to demonstrate fully that the materials to be furnished and the methods of work comply with the provisions and intent of the contract documents.

1.02 CONTRACTOR'S RESPONSIBILITIES

The Contractor shall be responsible for the accuracy and completeness of the information contained in each submittal and shall assure that the material, equipment or method of work shall be as described in the submittal. The Contractor shall verify that all features of all products conform to the specified requirements. Submittal documents shall be clearly edited to indicate only those items which are being submitted for review. All extraneous materials shall be crossed out or otherwise obliterated. The Contractor shall ensure that there is no conflict with other submittals and notify the City's Representative in each case where his submittal may affect the work of another Contractor or the City. The Contractor shall coordinate submittals among his subcontractors and suppliers.

The Contractor shall coordinate submittals so that work will not be delayed. The Contractor shall coordinate and schedule different categories of submittals, so that one will not be delayed for lack of coordination with another. No extension of time will be allowed because of failure to properly schedule submittals. The Contractor shall not proceed with work relating to a submittal until the submittal process is complete. This requires that submittals for review and comment shall be returned to the Contractor stamped "No Exceptions Taken" or "Make Corrections Noted."

The Contractor shall certify each submittal document by signing Form 01999-A Submittal Transmittal specified in Technical Specification Section 01999 – REFERENCE FORMS that the Contractor has reviewed the submittal, verified field conditions, and complied with the contract documents.

The Contractor may authorize in writing a material or equipment supplier to deal directly with the City's Representative or with the City with regard to a submittal. These dealings shall be limited to contract interpretations to clarify and expedite the work.

SECTION 01300

SUBMITTALS

1.03 CATEGORIES OF SUBMITTALS

A. GENERAL

Submittals fall into two general categories; submittals for review and comment, and submittals, which are primarily for information only. Submittals, which are for information only, are typically specified in the Part 2 - PRODUCTS of the individual Technical Specification section.

a. SUBMITTALS FOR REVIEW AND COMMENT:

All submittals except where specified to be submitted as product data for information only shall be submitted by the Contractor to the City and/or City's Representative for review and comment.

b. SUBMITTALS (PRODUCT DATA) FOR INFORMATION ONLY

Where specified, the Contractor shall furnish submittals (product data) to the City and/or City's Representative for Information only.

1.04 TRANSMITTAL PROCEDURE

A. GENERAL

The City or City's Representative will furnish the Contractor a list of numbers for anticipated submittals as specified in the Construction Documents. The list of submittals will be marked for review and comment and product data (submittals) for information only. The list is not intended to be an all-inclusive list of submittals required. Contractor shall coordinate additional submittals and corresponding submittal numbers with the City or City's Representative.

Unless otherwise specified, all submittals shall be accompanied by Submittal Transmittal Form 01999-A specified in Technical Specification Section 01999 – REFERENCE FORMS. A separate Transmittal Form shall be used for each specific item, class of material, and items specified in separate, discrete sections, for which the submittal is required. Submittals for various items shall be made with a single form when the items taken together constitute a manufacturer's package or are so functionally related that expediency indicates checking or review of the group or package as a whole.

A unique number, sequentially assigned, shall be noted on the transmittal form accompanying each item submitted. Original submittal numbers shall have the following format: "XXX"; where "XXX" is the sequential number assigned by the City or City's Representative. Re-submittals shall have the following format: "XXX-Y"; where "XXX" is the originally assigned submittal number and "Y" is a sequential letter

assigned for re-submittals, e.g., A, B, or C being the 1st, 2nd, and 3rd re-submittals, respectively. Submittal 25B, for example, is the second re-submittal of submittal 25. Re-submittals shall include original information with all revisions.

B. DEVIATION FROM CONTRACT

1. The Contractor shall submit a copy of the specification section, with addendum updates included, and all referenced and applicable sections with addendum updates included, with each paragraph check-marked as follows:
 - a. Marked to indicate specification compliance. Check marks (✓) shall denote full compliance with a paragraph as a whole.
 - b. Marked to indicate requested deviations from specification requirements. If deviations from the specifications are indicated, and therefore requested by the Contractor, each deviation shall be underlined and denoted by a number in the margin to the right of the identified paragraph, referenced to a detailed written explanation of the reasons for requesting the deviation. The City shall be the final authority for determining acceptability of requested deviations. The remaining portions of the paragraph not underlined will signify compliance on the part of the Contractor with the specifications. Failure to include a copy of the marked-up specification sections, along with justification(s) for any requested deviations to the specification requirements, with the submittal shall be sufficient cause for rejection of the entire submittal with no further consideration.
2. If the Contractor proposes to provide material, equipment, or method of work, which deviates from the Construction Documents, he shall indicate so under "Deviation" on Form 01999-A Submittal Transmittal accompanying the submittal copies.

C. SUBMITTAL COMPLETENESS

Submittals which do not have all the information required to be submitted, including deviations and Contractor's signature, are not acceptable and will be returned without review. The Contractor will be charged an additional cost if a submittal requires three or more reviews. (See Sub-section: 1.07 THIRD AND SUBSEQUENT SUBMITTALS)

1.05 REVIEW PROCEDURE

A. GENERAL

Submittals are specified for those features and characteristics of materials, and methods of operation, which can be selected, based on the Contractor's judgment of their

SECTION 01300

SUBMITTALS

conformance to the specified requirements. Other features and characteristics are specified in a manner, which enables the Contractor to determine acceptable options without submittals. The review procedure is based on the Contractor's guarantee that all features and characteristics not requiring submittals conform as specified. Review shall not extend to means, methods, techniques, sequences or procedures of construction, or to verifying quantities, dimensions, weights or gages, or fabrication processes (except where specifically indicated or required by the contract documents) or to safety precautions or programs incident thereto. Review of a separate item, as such, will not indicate approval of the assembly in which the item functions.

When the contract documents require a submittal, the Contractor shall submit the specified information as follows:

1. Unless otherwise specified, one (1) electronic Copy (.pdf format) of all submitted information shall be transmitted with submittals for review and comment.
2. Unless otherwise specified, one (1) electronic Copy (.pdf format) of all submitted information shall be transmitted with submittals (Product Data) for information only.

B. SUBMITTALS FOR REVIEW AND COMMENT

Unless otherwise specified, within ten (10) calendar days after receipt of a submittal for review and comment, the City and/or City's Representative shall review the submittal and return one copy of the electronically marked-up original in PDF format. Shop drawing submittals that require markups shall be marked up in red by the City and/or City's Representative. The City and/or City's Representative will retain the original.

The returned submittal shall indicate one of the following actions:

1. If the review indicates that the material, equipment or work method complies with the contract documents, submittal copies will be marked "NO EXCEPTIONS TAKEN." In this event, the Contractor may begin to implement the work method or incorporate the material or equipment covered by the submittal.
2. If the review indicates limited corrections are required, copies will be marked "MAKE CORRECTIONS NOTED." The Contractor may begin implementing the work method or incorporating the material and equipment covered by the submittal in accordance with the noted corrections. A corrected copy shall be resubmitted.
3. If the review reveals that the submittal is insufficient or contains incorrect data, copies will be marked "AMEND AND RESUBMIT." Except at his own risk, the Contractor shall not undertake work covered by this submittal until it has been revised, resubmitted and returned marked either "NO EXCEPTIONS TAKEN" or

"MAKE CORRECTIONS NOTED."

4. If the review indicates that the material or work method does not comply with the contract documents, copies of the submittal will be marked "REJECTED - SEE REMARKS." Submittals with deviations, which have not been identified, clearly may be rejected. Except at his own risk, the Contractor shall not undertake the work covered by such submittals until a new submittal is made and returned marked either "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED."

C. SUBMITTALS (PRODUCT DATA) FOR INFORMATION ONLY:

Such information is not subject to submittal review procedures and shall be provided as part of the work under this contract and its acceptability determined under normal inspection procedures.

1.06 EFFECT OF REVIEW OF CONTRACTOR'S SUBMITTALS

Review methods of work or information regarding materials the Contractor proposes to provide, shall not relieve the Contractor of his responsibility for errors therein and shall not be regarded as an assumption of risks or liability by the City's Representative and/or the City, or by any officer or employee thereof, and the Contractor shall have no claim under the contract on account of the failure, or partial failure, of the method of work, material, or equipment so reviewed. A mark of "NO EXCEPTIONS TAKEN" or "MAKE CORRECTIONS NOTED" shall mean that the City has no objection to the Contractor, upon his own responsibility, using the plan or method of work proposed, or providing the materials proposed.

1.07 THIRD AND SUBSEQUENT SUBMITTALS

The cost for third and subsequent submittals shall be borne by the Contractor. The cost of reviews for third and subsequent reviews shall be at a rate of \$300 per hour and shall be charged to the Contractor as a reduction in Contractor's pay request.

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

(NOT USED)

****END OF SECTION****

SECTION 01300
SUBMITTALS

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SECTION 01310 PROGRESS SCHEDULE

PART 1 - GENERAL

1.01 DESCRIPTION

This Technical Specification section specifies requirements and procedures for the Contractor in preparing schedules. The purpose of the schedule shall be to ensure adequate planning and execution of the work by the Contractor, notification and coordination of construction activities with the general public, to establish the standard against which satisfactory completion of the project shall be judged, to assist the City or City's Representative in monitoring progress and for the assessment of the impact of change orders on the Schedule.

1.02 SUBMITTAL PROCEDURES

The Contractor shall submit a schedule to the City or City's Representative within ten (10) calendar days of receiving Notice to Proceed and prior to Pre-construction meeting (if scheduled) with work identifying the duration of mobilization, anticipated time when work is to be performed, construction activity sequence and duration, and date of project completion. Schedule shall be transmitted to the City or City's Representative per Technical Specification Section 01300 – SUBMITTALS.

PART 2 - PRODUCTS

2.01 PROGRESS SCHEDULES

- A. Contractor shall provide a Schedule to the City and/or City's Representative. Schedule shall be updated weekly with anticipated activities and durations. Schedule shall also list work completed to date.
- B. Schedule shall be prepared on computer software (such as Microsoft Project) that facilitates schedule updates and electronic distribution such as e-mailing.
- C. Special considerations, coordination requirements, etc., as encountered for certain areas of the work shall be noted on schedule.
- D. Time for completion for each operation shall be shown on the schedule.
- E. The schedule duration of each activity shall be based on the work being performed during the normal work week with allowances made for legal holidays. The schedule shall include a critical path.
- F. Dates imposed on the schedule by the Contractor shall not be binding on the City or City's Representative.

SECTION 01310
PROGRESS SCHEDULE

- G. Failure to include elements of work required for the performance of this Project shall not excuse the Contractor from completing the work as described in the Construction Documents.
- H. Provide a list of the holidays and non-work days applicable to the schedule.
- I. Traffic Control concerns may necessitate work during nights, weekends, or holidays.
- J. Provide a schedule and narrative summary stating project status so the City and/or City's Representative may use them as a basis for determining the Contractor's compliance with the Technical Specification requirements regarding progress payments, contract time extensions, change order prices and impacts, and the overall progress of the work. Failure of the Contractor to comply with the requirements of this Technical Specification Section may delay the review and acceptance of the progress payment requests.

PART 3 - EXECUTION

3.01 GENERAL

The Contractor and the Contractor's Field Superintendent shall attend regularly scheduled construction progress meetings with the City or City's Representative and others invited by the City or City's Representative.

3.02 UPDATES

- A. Requests for extensions in time resulting from changes issued by the City shall be accompanied by a Time Extension Request - Narrative Report explaining the impacts and costs associated with the extension if it were to be granted.
- B. If actual progress on the critical path items is observed to deviate from the schedule by ten (10) or more days behind, the Contractor shall update and submit a revised (updated) schedule. In the case of the work being behind schedule, the Contractor shall submit, along with the revised schedule, a written plan for completing the work within the milestone and contract times.

**** END OF SECTION ****

SECTION 01380

PHOTOGRAPHS AND VIDEO RECORDINGS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section specifies digital color photographs and digital video recordings to be taken at the ground surface level by the Contractor before and after construction commences. These recordings shall clearly document site conditions prior to construction activities commencing and again following the completion of construction activities.

1.02 PAYMENT

- A. Contractor shall pay costs for photography, video recordings and prints. Parties requiring additional photography, video recordings or prints shall invoice and pay photographer directly.

1.03 SUBMITTALS

- A. Contractor shall submit the following information for review per Technical Specification Section 01300 – SUBMITTALS at the pre-construction conference.
 - 1. Site condition color photographs and video with audio commentary taken prior to construction.

PART 2 - PRODUCTS

2.01 GENERAL

- A. The color photographs and audio-video recordings are intended for use as indisputable evidence in ascertaining the extent of any damage which may have occurred as a result of the Contractor's operations and are for the protection of the Contractor and the City, and may, at the City's discretion, be a means of determining whether and to what extent damage, resulting from the Contractor's operations, occurred during the Contract work.

B. PHOTOGRAPHS:

Photographs shall be color digital (high resolution) .jpeg format stored on a file sharing website or USB media. Submitted media shall indicate the date, name of Project, and City where the photographs were taken. Submitted USB media shall contain an identification tag along with a Readme Notepad file that contains the date, name of Project, and City where the photographs were taken. One (1) copy of each USB shall be delivered to the City.

SECTION 01380

PHOTOGRAPHS AND VIDEO RECORDINGS

C. VIDEO RECORDINGS:

Video recordings shall be .mpeg format stored on a file sharing website or USB media. Submitted media shall indicate the date, name of Project, and City where the videos were taken. Submitted USB media shall contain an identification tag along with a Readme Notepad file that contains the date, name of Project, and City where the videos were taken. The video recordings should contain an audio track, which narrates the progression of the video recording through the site. One (1) copy of each USB shall be delivered to the City.

PART 3 - EXECUTION

3.01 VIDEO

- A. Contractor shall perform video recordings of all areas where the Contractor anticipates construction activities to occur, including all staging, storing, working, parking and excavation areas. Easements and areas outside of paved roadways are of particular interest.
- B. After completion of construction and restoration, video recordings shall be taken from the same points, in the same direction as the pre-construction examination recording.

3.02 CONSTRUCTION PHOTOGRAPHY

- A. Photographs shall be provided of items of special interest and/or special conditions during construction.

****END OF SECTION****

PART 1 - GENERAL

1.01 DESCRIPTION

The work under this item consists of informing adjacent property owners regarding the impact and schedule of construction work, attendance at public information meeting(s), responding to on-site public inquiries along with distribution of public information door hanger materials to adjacent property owners as needed, and coordination with the City's Public Information Officer (PIO), Communications and Public Affairs (CAPA) department personnel, and City's Public Outreach Consultant.

The CAPA department shall review all materials for distribution to the public. The Contractor shall be responsible for developing and providing to the City the schedule outlining the work descriptions, start date, milestones, and duration of work that will be distributed to the public per Technical Specification 01310 – PROGRESS SCHEDULE.

Construction information will be distributed to area residents and businesses by the City. The Contractor shall be responsible for coordination with the City's Public Outreach Consultant.

1.02 SUBMITTALS

The Contractor shall submit to the City and/or City's Representative per Technical Specification Section 01300 - SUBMITTALS the following for approval:

1. Schedule outlining construction start date and duration of construction within ten (10) days of the Notice to Proceed.
2. Letter containing the name and contact phone number of the Contractor's on-site Representative and stating that this person is duly authorized to act on behalf of the Contractor during public relation activities and/or construction problem resolution.
3. The Company logo of the Contractor and any sub-contractors working on the project. Contractor shall give the City and/or subconsultant permission and sole discretion to reproduce logo on project related documents such as, but not limited to construction notices that are distributed to the general public. Company logo shall be provided in high resolution digital (.jpeg) format.

1.03 CONSTRUCTION NOTICES AND DOOR HANGERS

- A. The City shall notify properties potentially affected by construction activities by distributing a project notification flyer or other electronic, social media, or printed means prior to construction occurring.

SECTION 01400
PUBLIC AWARENESS

1.04 NOTICE OF SERVICE INTERRUPTION

The Contractor shall provide a list to the City and City's Representative of sewer services that may be disrupted due to the construction operations or potential impact from construction activities no less than 72 hours prior to service interruption.

1.05 24-HOUR TELEPHONE HOTLINE

- A. The Contractor shall provide the name(s) and contact phone number of the Contractor's on-site Representative who shall be responsible for replying to resident construction concerns, damage claims, resident complaints, etc. during construction activities.

The Contractor shall be responsible for coordination with the City's Public Relations department or their Public Outreach Consultant to obtain messages and respond accordingly. The Contractor shall provide written response back to the City as to the action undertaken for the resolution of the hotline complaint or concern within 24 hours.

- B. A log of telephone and/or on-site contacts of residential complaints shall be maintained by the Contractor. The Contractor shall immediately communicate to the City and City's Representative any public issues concerning damage to private property, health concerns, nuisances and general complaints. The Hotline Log shall contain at the minimum the following information:

Date of Communication.
Time of Communication.
Name of Person Receiving the Complaint.
Contact Name.
Contact Address.
Contact Return Telephone Number.
Description of Complaint or Concern.
Description of Discussions.
Description of Proposed Resolution.

- C. Hotline Log shall be submitted to City's Representative within 24 hours of each new entry. Summary of all telephone contact shall be submitted to the City and City's Representative at the next construction progress meeting.

1.06 WORK IN EASEMENTS

- A. Work may take place in right-of-way of streets or in easements through private property. Access and working space may be limited in easements. Careful attention to access and private property protection is required in easements.

- B. Contractor shall NOT attempt to contact the property owner prior to entering an easement. City of Glendale personnel shall be responsible to inform the property owner of the details of the work.
- C. Contractor shall take surface feature pre-construction videos of easement areas or areas potentially impacted by construction activities according to Technical Specification Section 01380 – PHOTOGRAPHS AND VIDEO RECORDINGS before beginning work. The purpose of these videos is to document existing surface features and conditions prior to bringing any equipment into the area or performing any work.

1.07 ON-SITE SUPERINTENDENT

The Contractor shall have a Representative familiar with the work on-site during project work hours and shall be available to answer questions received from the public on a 24-hour basis and assist the public with access needs.

PART 2 - PRODUCTS

2.01 PUBLIC NOTIFICATION

Information provided to the general public shall be determined and produced by the City or the City's Public Outreach Consultant. Project notification will be distributed by the City through printed flyer, door hanger, or other electronic and social media platforms.

PART 3 - EXECUTION

(NOT USED)

**** END OF SECTION ****

SECTION 01400
PUBLIC AWARENESS

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SECTION 01550 CONTRACTORS UTILITIES

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This section specifies the facilities, utilities, and security the Contractor is required to furnish and maintain during construction.
- B. Copies of any Contract Documents shall be kept at the work site and available for use at all times.

PART 2 - PRODUCTS

2.01 POWER

- A. Contractor shall use battery, pneumatic, or hydraulic power for all interior sewer pipe work. This limitation is not necessary for work on the surface or for sewer pipe illumination.

2.02 LIGHTING AND ILLUMINATION

- A. As necessary, the Contractor shall provide low voltage lighting and illumination in the sewer pipe interior, in accordance with the guidelines published in Practice for Industrial Lighting, ANSI/IES RP-7-2017. Lighting used by the Contractor on the surface shall be placed and directed to avoid nuisance to traffic or local residences. Light shields may be required to limit light pollution into adjacent residences or businesses.

2.03 TELEPHONE

- A. Contractor shall provide and maintain telephone service at the construction site and the telephone shall be manned by the Contractor or Contractor's Representative 24 hours per day. Contractor or Contractor's Representative manning the telephone service shall be fluent in written and verbal English as well as Spanish languages. Cellular telephone service is acceptable as a substitute for telephone service. These telephone and labor costs shall be paid by the Contractor.

2.04 WATER

- A. All water for testing, flushing, cleaning and construction activities shall be furnished and paid for by the Contractor. Water may be available upon request to the City for connecting to the City's water distribution system. Connection may be approved by the City with appropriate backflow prevention and metering devices installed by the Contractor according to City requirements. Authorization to receive water may be rescinded by the City upon written notice to the Contractor at any time and for any reason.

SECTION 01550 CONTRACTORS UTILITIES

The City shall charge the Contractor for water used in performing the above functions in accordance with the City's established rate schedule. At Contractor's expense, an approved water meter and backflow prevention device, meeting the requirements of ANSI A40.6, latest revision, shall be installed in each and every connection to the City's water supply. The Contractor shall be required to meter all water used.

2.05 DEBRIS DISPOSAL

- A. Contractor shall make provisions for legal, off-site debris disposal. Contractor shall be responsible to obtain and submit to the City a written letter of acceptance, signed by an authorized representative of the agency and/or authorized party accepting debris. Disposal of debris shall not occur until City has reviewed and accepted the disposal site. Contractor shall pay all fees and charges for debris disposal. Contractor shall be responsible for all permits and fees according to Technical Specification Section 01062 – PERMITS AND EASEMENTS, subsection 1.02 Permits to be Obtained by the Contractor for transport to the disposal site.
- B. Contractor shall make provisions for proper disposal of hazardous materials, such as asbestos, hazardous chemicals, etc. with appropriate documentation and chain of authority for such disposal.

PART 3 - EXECUTION

NOT USED

****END OF SECTION****

SECTION 01560 ENVIRONMENTAL CONTROLS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Provide and maintain methods, equipment, and temporary construction, as necessary to provide controls over environmental conditions at the construction site and adjacent areas. Remove physical evidence of temporary facilities at completion of work.

1.02 TRANSPORTATION ROUTES

- A. The Contractor shall select its transportation routes for hauling materials, equipment, or imported products based on the existing condition of the pipelines and impacts on local traffic. Transportation routes shall be documented in a traffic control plan on a case by case basis.

1.03 TRAFFIC CONTROL

- A. All streets, traffic ways, and sidewalks shall be kept open in a safe manner for the passage of traffic and pedestrians during the construction period unless otherwise approved by the City.
- B. When required to cross, obstruct or close a street, traffic way, or sidewalk for a short duration that is approved by the City, the Contractor shall provide and maintain suitable bridges, detours or other approved temporary means for the accommodation of vehicular and pedestrian traffic. Closings shall be for the shortest time practical, and passage shall be restored immediately after completion of construction.
- C. Contractor shall give the City 24 hours advance notice of his proposed operations within any public rights-of-way and temporary roadway closings. All proposed roadway closings shall be submitted in the Traffic Control Plan and approved prior to commencement of operations.
- D. Contractor shall provide signs, signals, barricades, lights and all other equipment, service and personnel required to regulate and protect all traffic and warn of hazards in accordance with MAG specifications. All such work shall conform to requirements of the City or authority having jurisdiction. Remove temporary equipment and facilities when no longer required and restore grounds to original condition.
- E. As specified in Technical Specification Section 02100 – TRAFFIC CONTROL, the Contractor shall provide a Traffic Control Plan and implement traffic control around all work as part of the contract.
- F. Qualified and suitably equipped flaggers shall be used to assist all construction equipment and vehicle access to and from the construction site.

SECTION 01560
ENVIRONMENTAL CONTROLS

1.04 SEWAGE SPILL CONTROL

- A. A spill is defined as any uncontrolled release of raw sewage outside of the intended sanitary sewer collection system. Raw sewage releases shall not be allowed to occur and are not permitted. The Contractor shall be responsible for all consequences and damages caused by the overflow, backup, or spill due to the Contractor's work activities.
- B. Contractor shall give both verbal and written notification to the City immediately in the event of any sewage release, overflow, backup, or spill.
- C. Contractor shall complete and submit to the City the Confidential Spill Report form found in Technical Specification Section 01999 – REFERENCE FORMS within 2 hours of any spill.

1.05 EMERGENCY SPILL RESPONSE PLAN

- A. The Contractor shall be responsible to develop, submit for approval and follow an emergency spill response plan. Plan shall be well communicated to all personnel in the event an emergency should occur, it can be handled in the safest and most efficient manner possible.
- B. The primary responsibility for all Contractor personnel is to respond to sewer spills as quickly as possible.
- C. Emergency telephone list is part of this procedure and will be kept up-to-date at all times.
- D. Follow Standard Procedure List.
- E. Fill out attached Confidential Spill Reporting Form. See Technical Specification Section 01999 - REFERENCE FORMS.
- F. Contractor shall develop an Emergency Spill Response Phone List containing, but not limited to the following:

(name) ____ (Contractors Field Superintendent) (____) ____ - ____
(name) ____ (Engineer's Field Representative) (____) ____ - ____
(name) ____ (City's Construction Project Manager)(____) ____ - ____
(name) ____ (Engineer's Project Manager) (____) ____ - ____

Submit list to City according to Technical Specification Section 01300 – SUBMITTALS.

List shall remain current at all times. Any proposed changes shall be provided to the City a minimum of 24 hours in advance of the change or within 1 hour if the change is due to an emergency.

1.06 STANDARD REPORTING PROCEDURES

A. HANDLING EMERGENCIES

1. Medical emergency, fire, or explosion, call **911** immediately. **Do not call 911 to report a wastewater spill.**

B. OBSERVATION

1. Contractor shall obtain enough information to make an initial assessment of the situation without endangering themselves.

C. PROTOCOL FOR NOTIFICATION OF SPILL

1. Contractor's Field Superintendent:
Contractor's field personnel shall verbally notify the Contractor's Field Superintendent. Field Superintendent shall promptly notify City Representatives immediately, always less than one (1) hour from the time of being made aware of the spill. Document all calls and conversations.

D. REPORT

As soon as possible, but no later than 24 hours following discovery of the spill, the Contractor shall complete the Form 01999-C Confidential Spill Reporting, reference Technical Specification Section 01999 – REFERENCE FORMS. The Contractor shall take photographs at all stages of the incident to include in the report. Submit copies of all documentation to City per Technical Specification Section 01300 – SUBMITTALS except as herein modified. Spill reports shall be hand carried to the City's Representative as soon as complete.

E. SUBMITTAL

The Contractor shall verify that City has received a copy of completed Form 01999-C Confidential Spill Reporting and supporting documentation and submitted copy of said report to the City's Representative in a timely manner. Provide all reports and report discrepancies to the City's Representative and retain one (1) copy in the Project File located at Contractor's office.

1.07 SANITARY SEWAGE SPILL

- A. If a sanitary sewage spill occurs and a citizen or business sustains property damage, the following procedure is to be adhered to:
 1. The initial responsibility of the Contractor is to locate and eliminate the cause of the spill as soon as possible. Contractor will obtain an emergency clean-up service and relocate the residents, if necessary, to minimize health risks. Contractor shall

SECTION 01560

ENVIRONMENTAL CONTROLS

be responsible for all costs and coordination efforts associated with the sewer spill and cleanup including but not limited to:

- a. Relocation of residents, businesses, and schools
 - b. Temporary housing of displaced residents
 - c. Clean-up and sanitizing costs
 - d. Replacement of damaged personal items
 - e. Relocation of residents back into the residence
2. Determine the extent of the property damage (photographs are recommended). A report (Incident Report), with the photos must be provided to the Contractor's designated Safety Officer. The Safety Officer will forward the information to the Contractor's corporate liability insurance carrier. Information compiled should include:
- a. Time call was received
 - b. Time the crew arrived at the site
 - c. Time work was completed
 - d. Cause of stoppage/source of backup sewage (if possible) and location of stoppage causing the backup
 - e. Name of property owner/tenant and address of affected property
 - f. Extent of damage
 - g. Action taken
3. Contractor-authorized personnel will also assist and pay all costs for obtaining and coordinating a sub-contractor to perform restoration work and will work with the selected sub-contractor to equitably restore the premises to its pre-loss condition.
4. The Contractor's Superintendent shall notify the City of the stoppage in the sanitary sewer pipe.
5. Notify City in the event of any spills.
6. The City of Glendale shall notify Arizona Department of Environmental Quality (ADEQ) only as it pertains to Arizona State Law Requirements.

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

3.01 SITE MAINTENANCE

- A. Contractor shall keep the work site, staging areas, storage and parking area, Contractor's facilities clean and free from rubbish and debris. Materials and equipment shall be promptly removed from the site when they are no longer necessary. Upon

completion of the work and before final acceptance, the work site shall be cleared of equipment, unused materials, and rubbish to present a clean and neat appearance in conformance with the preconstruction condition of the site.

- B. Contractor shall not store equipment or materials anywhere other than locations approved by the City. Property surrounding the work site shall be completely free of all debris and rubbish at all times.

3.02 CLEAN-UP

- A. Waste material of any kind will not be permitted to remain on the site of the work or on adjacent streets. Immediately, upon such materials becoming unfit for use in the work, they shall be collected, carried off the site and legally disposed of by the Contractor. The Contractor shall be responsible for obtaining necessary permits or approval for the Contractor's disposal site.
- B. The Contractor shall keep all buildings and areas occupied by the Contractor clear of all refuse, rubbish and debris that may accumulate from any source and shall keep them in a neat condition to the satisfaction of the City.
- C. In the event that waste material, refuse, debris and/or rubbish are not so removed from the work area by the Contractor, the City reserves the right to have the waste material, refuse, debris and/or rubbish removed and the expense of the removal and disposal charged to the Contractor.
- D. Paints, solvents, and other construction materials shall be handled with care to prevent entry of contaminants into storm drains, surface waters, or soils.

3.03. BARRIERS

- A. A barrier shall be provided around all unattended excavations and open structures. The barrier shall enclose the area and prevent unauthorized access.

3.04 STREET CLEANING

- A. Contractor shall be responsible for preventing dirt, dust, and sediments from escaping from trucks departing the project site, by covering dusty loads, washing truck tires before leaving the site, or other reasonable methods.
- B. When working trucks and/or other equipment on paved streets and roadways, the Contractor will be required to clean said streets as soon as possible, but no later than at the conclusion of each day's operations or 24-hour period and at such interim periods as required by the City.
- C. All streets in the construction area used by Contractor's trucks or any other equipment hauling material to and from the area, whether within the Contract limits or adjacent

SECTION 01560

ENVIRONMENTAL CONTROLS

thereto, shall be kept clean by the Contractor and shall be continuously serviced by the Contractor's use of water trucks to control dust.

- D. Cleaning and dust control shall be as specified in MAG Section 104.1.4 "Cleanup and Dust Control" and shall be at the Contractor's expense.
- E. Any violation of the requirements shall be sufficient grounds for the City to order the streets in question cleaned by others and the cost to be paid by the Contractor.
- F. No solid materials or soils may be flushed into storm drains or in the sanitary sewers or wastewater facilities.
- G. Contractor shall use a power pick-up broom as part of the dust control effort.

3.05 AIR POLLUTION CONTROL

A. GENERAL

The Contractor shall not discharge smoke, dust, and other contaminants into the atmosphere that violate the regulations of any legally constituted authority. The Contractor shall maintain construction vehicles and equipment in good repair. Equipment exhaust emissions that are determined to be excessive by the City shall cause the equipment to be repaired or replaced.

- B. Contractor shall also minimize dust nuisance by cleaning, sweeping, and sprinkling with water, or other means. The use of water, in amounts, which result in mud on public streets, is not acceptable as a substitute for sweeping or other methods. Equipment for this operation shall be on the job site or available at all times.

3.06 ODOR

- A. The Contractor shall employ methods and procedures that mitigate the generation and discharge of objectionable odors to the surface environment at all times.

3.08 NOISE CONTROL

- A. Contractor shall perform all work in compliance with OSHA standards and in no case will noise levels be permitted which would interfere with the work of the City or others. Noise levels shall be in accordance with City noise ordinance.
- B. Each internal combustion engine, used for any purpose on the job or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer for residential use. No internal combustion engine shall be operated on the project without said muffler.

- C. Noisy portable equipment, such as generators, pumps, or compressors, shall be located as far away from sensitive noise receptor areas as practical. Sensitive noise receptors are defined as occupied buildings with windows or doors facing the site. Noise barriers shall be constructed around noisy, stationary, construction equipment such as compressors, pumps, or generators that have to be utilized at locations near (within 100 feet of) sensitive noise receptors as defined above.
- D. Idling equipment not actively utilized for extended periods of time shall be shut off.

3.09 TREE AND PLANT PROTECTION

- A. If a tree or any landscaped vegetation is damaged or destroyed by construction, or any action of the Contractor, the Contractor shall replace the damaged tree or plant with a healthy one of the same species. The replacement tree or plant shall be of the same size as the damaged tree or plant and will be placed at the existing grade. The Contractor shall bear all expenses required to clear and grub the damaged tree or plant and to establish the replacement tree or plant. The replacement tree or plant shall be installed per City Standard Landscaping Specifications and Details and guaranteed healthy for 1 year after final completion. The Contractor shall be responsible for any tree or plant that the Contractor had replaced that is deemed unhealthy during that year.
- B. All landscaped areas and other surface improvements which are damaged by actions of the Contractor shall be restored to their original condition at the Contractor's expense. When the impact is to private property, the property owner shall confirm acceptance to original condition

3.10 SURFACE WATER CONTROL

- A. Contractor shall conform to the regulations and requirements of legally authorized surface water management agencies. The Contractor is responsible to provide and maintain any temporary pumping, drainage structures, or other means to manage or control nuisance surface water.
- B. The Contractor shall be responsible for keeping any open excavations and other areas free from water as required to permit continuous progress of, or to prevent damage to, its own work or work of others. The Contractor shall cover exposed excavated areas and spoil piles when runoff from rain is or would be likely to cause turbid waters to enter local waterways. The Contractor shall suspend work in the rain, if such work cannot be performed without causing turbid runoff.

3.11 STORM SEWER

- A. Contractor shall not discharge any wastewater, potable water used for testing, or cleaning, or any chemical or waste materials from the construction operation into the storm sewer system.

SECTION 01560
ENVIRONMENTAL CONTROLS

3.12 SANITARY SEWER

- A. Contractor shall not dispose of chemical or any waste materials from the construction operations into the sanitary sewer system.

**** END OF SECTION ****

SECTION 01700

RESTORATION OF IMPROVEMENTS

PART 1 - GENERAL

1.01 GENERAL

This section specifies restoration of improvements of the Contractor's work area, staging area, storage area, and parking area.

1.02 STRUCTURES

Contractor shall remove such existing structures as may be necessary for the performance of the work and shall rebuild the structures thus removed, with the specified requirements, in as good a condition as found. The Contractor shall also repair existing structures that workers damage as a result of the work under this Project at no additional cost to the City.

1.03 ROADS AND STREETS

Unless otherwise specified, roads and streets in which the surface is removed, broken, or damaged, or in which the ground has caved or settled during or as a result of the work under this Project, shall be resurfaced and/or repaved and brought back to the original grade and section or City Standard section, whichever is greater, at the Contractor's expense. The Contractor shall document in video the entire road or street area to be used for the work and parking area as specified in Technical Specification Section 01380 – PHOTOGRAPHS AND VIDEO RECORDINGS. Copies of the USB storage device shall be submitted to the City prior to starting the work. Once construction starts, Contractor assumes responsibility for road condition and repair.

Roadways used by the Contractor shall be cleaned and repaired if damaged. Before resurfacing and/or repaving material is placed, edges of pavements shall be trimmed back far enough to provide clean, solid, vertical faces, and shall be free of loose material. Streets, sidewalks, and other City, County, or State-owned facilities impacted by construction activities shall be replaced or repaired in accordance with current City and MAG requirements.

1.04 CULTIVATED AREAS AND OTHER SURFACE IMPROVEMENTS

- A. Cultivated or planted areas, other unpaved areas, and other surface improvements which are damaged by actions of the Contractor shall be restored to their original condition. In addition to City inspection, the Contractor shall document in video the entire area to be used as the work area, staging area, storage area, and parking area as specified in Technical Specification Section 01380 – PHOTOGRAPHS AND VIDEO RECORDINGS.
- B. Contractor shall be responsible for coordination of all irrigation piping and facilities located within cultivated areas with appropriate jurisdictional agency. Contractor shall protect the work area(s) from uncontrolled irrigation waters that impact the work or

SECTION 01700
RESTORATION OF IMPROVEMENTS

work area(s). City will not entertain damage claims as a result of irrigation water.

- C. Repair of irrigation facilities damaged by construction activities shall be the responsibility of the Contractor. Irrigation schedules shall be maintained to sustain vegetation health. Any sod, vegetation, or foliage damaged due through insufficient water as a result of construction activities shall be replaced in kind and size to the satisfaction of the City by the Contractor at no additional cost to the City.
- D. Existing guard posts, barricades, and fences shall be protected and replaced if damaged.

1.05 PROTECTION OF EXISTING INSTALLATIONS

- A. Contractor shall protect all existing operating facilities and structures from damage. However, if damage occurs, the Contractor shall immediately correct or replace existing equipment, materials, or systems that are damaged as a result of its operations to the satisfaction of the City.

PART 2 - PRODUCTS
(NOT USED)

PART 3 - EXECUTION

3.01 RESTORATION ACCEPTANCE

- A. The Contractor shall restore the area to existing condition of the Contractor's work area, staging area, storage area, and parking area as documented in the photographs and video recordings.
- B. The City shall determine if and when restoration of the site is acceptable following on-site inspection and review of the pre-construction and post-construction recordings as specified in Technical Specification Section 01380 – PHOTOGRAPHS AND VIDEO RECORDINGS.

**** END OF SECTION ****

SECTION 01999 REFERENCE FORMS

PART 1 - GENERAL

1.01 REQUIRED FORMS

The forms listed below and included in this section are referenced from other Technical Specification sections of the contract documents:

<u>Form No.</u>	<u>Title</u>
01999- A	Submittal Transmittal
01999- B	Request for Information
01999- C	Confidential Spill Reporting
01999- D	Chain of Custody

1.02 SCOPE

The Contractor shall be responsible for the documentation forms for tests and evaluations required of the contract that do not have specific forms identified. Contractor generated forms shall follow the format established on Form 01999-A Submittal Transmittal contained herein.

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

(NOT USED)

SECTION 01999
REFERENCE FORMS

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SECTION 01999
REFERENCE FORMS

FORM 01999-A SUBMITTAL TRANSMITTAL

Submittal Description: _____

Submittal No: _____

Spec Section: _____

	Routing	Sent	Received
OWNER:	Contractor		
PROJECT NUMBER AND NAME:	Engineer		
	Contractor		
CONTRACTOR:			

We are sending you ☐ Attached ☐ Under separate cover via _____
☐ Submittals for review and comment
☐ Product data for information only

Remarks: _____

Item	Copies	Date	Section No.	Description	Review action ^a	Reviewer initials	Review comments attached

^a **Note: NET = No exceptions taken; MCN = Make corrections noted; A&R = Amend and resubmit; R = Rejected**
Attach additional sheets if necessary.

Contractor: Certify either A or B:

- ☐ A. We have verified that the material or equipment contained in this submittal meets all the requirements, including coordination with all related work specified (no exceptions).
- ☐ B. We have verified that the material or equipment contained in this submittal meets all the requirements specified except for the attached deviations.

No.

Deviation

_____	_____
_____	_____
_____	_____
_____	_____

Certified by: _____

Contractor's Signature

SECTION 01999
REFERENCE FORMS

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**SECTION 01999
REFERENCE FORMS**

FORM 01999-B REQUEST FOR INFORMATION

OWNER:	ROUTING	RFI NO. SENT	RECEIVED
PROJECT NAME:	Contractor		
PROJECT NUMBER:	City Representative		
CONTRACTOR			
RFI TITLE:			
REFERENCES:	DRAWING NO:	LOCATION:	
	SPEC. SECTION:	PAGE:	
OTHERS:			

The following information is requested as described below or in the attachments:

By: _____ Date: _____

The following information is provided as described below or in the attachments:

By: _____ Date: _____

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FORM 01999-C CONFIDENTIAL SPILL REPORTING

INSTRUCTIONS: The Contractor shall ensure that appropriate on-site personnel complete this form. The form shall be completed immediately upon discovery of a sanitary sewer spill or release by the individual who first made the discovery.

First at the Scene (name):

1. Facility name and address/location/intersection (or major cross streets):

2. Is/was there a fire or explosion or other release (except for sewage release) outside the facility?

Yes ☐ No ☐

If yes, immediately contact the Fire Department (911) for assistance, initiate appropriate facility response procedures, and then continue with this form.

3. Personal injuries and extent, if any: _____

4. Date and time of initial call or complaint: _____

5. Date and time of spill found or confirmed: _____

6. Date spill reporting completed: _____

7. Date and time spill occurred or started, if known: _____

8. What was spilled? Describe completely. List chemical names/wastewater if known.

9. How much was spilled? Use units such as gallons or pounds, etc. _____

10. Where and how did the spill occur? Include a description of the container or vessel from which the spill occurred. Attach diagram or map, if available.

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11. Where did the spilled material go? Check all that apply.

- | | | | |
|---|--|---|---|
| ☐ drywell | ☐ dry wash | ☐ canal | ☐ riverbed |
| ☐ private property | ☐ retention basin | ☐ sanitary sewer | ☐ secondary
containment |
| ☐ storm drain | ☐ city street | ☐ Air (vapors or
odors) | ☐ other (specify
below) |
-
-
-
-

12. How far did the spill travel? Describe the path the spill took to its final destination.

13. Was the spill stopped or contained? Describe how and by whom.

14. How long did the spill last? _____

15. Who found the spill? Use the back of this form if necessary.

Name_____ Title_____ Phone_____

a. _____

b. _____

16. Who was notified of the spill? List names and identify how notification was made (phone call, fax, etc. Use the back of this form if necessary).

Name	Department/Division/Agency	Date/Time Notified	Method of Notification
------	----------------------------	--------------------	------------------------

a. _____

SECTION 01999
REFERENCE FORMS

b. _____

Printed name and signature of person who completed this form:

Printed Name _____ Title _____ Phone _____

Signature _____ Date _____

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REFERENCE FORMS

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SECTION 01999
REFERENCE FORMS

FORM 01999-D CHAIN OF CUSTODY

PROJECT NUMBER AND NAME:		CITY:

OWNERS REPRESENTATIVE:	
COMPANY NAME:	
ADDRESS	
CONTACT PHONE NUMBER:	
CONTACT NAME:	

CONTRACTOR:	
COMPANY NAME:	
ADDRESS	
CONTACT PHONE NUMBER:	
CONTACT NAME:	

TESTING LABORATORY:	
LAB NAME:	
ADDRESS	
CONTACT PHONE NUMBER:	
FAX NUMBER	
CONTACT NAME:	

		Pipe Segment No.	
Date Sample Taken:		Pipe Diameter	
Sample Number:		Liner Design Thickness:	
Quarter Section No.		Resign Type:	
Upstream Manhole No.		Downstream Manhole No.	

SAMPLE TAKEN BY:	SIGNATURE:	
		DATE
PRINT NAME:		

ENGINEER, RECEIVED BY:	SIGNATURE:	
		DATE
PRINT NAME:		

LABORATORY RECIEVED BY:	SIGNATURE:	
		DATE
PRINT NAME:		

TEST RESULTS, RECEIVED BY:	SIGNATURE:	
		DATE
PRINT NAME:		

**** END OF SECTION ****

SECTION 01999
REFERENCE FORMS

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SECTION 02100 TRAFFIC CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION

Traffic control during construction shall be provided in accordance with the requirements of the 2015 City of Glendale Engineering Design and Construction Standards, MAG Uniform Standard Specifications for Public Works Construction Section 401 - Traffic Control, and the Manual on Uniform Traffic Control Devices (MUTCD) (latest edition).

1.02 TRAFFIC REGULATIONS

- A. A traffic control plan (TCP) must be submitted for review and approval by the City for arterial, collector, and local streets impacted by construction operations.
- B. All traffic and/or traffic control devices on this project shall be provided, maintained and/or controlled as specified section 1.01.
- C. Traffic/Pedestrian control shall comply with the requirements of Section 1.01, or any special conditions required by the City.
- D. The submitter/designer of the TCP shall be IMSA or ATSSA certified.
- E. Permission to restrict City streets, sidewalks and alleys (street closure permits) shall be requested as specified in Chapter 24, Article III of the City of Glendale Code of Ordinances.
- F. All traffic on this project shall be regulated as specified in Chapter 24, Article III of the City of Glendale Code of Ordinances.
- G. No deviation to the “Special Traffic Regulations” will be allowed or implemented unless submitted to the City for review and approval two (2) weeks prior to proposed work.
- H. Variable Message Boards (VMB) are required per City requirements.
- I. Law enforcement officers may be required within 300 feet of a signalized intersection. Officers may be required for non-signalized construction areas at the discretion of the City.
- J. A minimum of three (3) working days, (72 hours), advance notice is required for TCP review prior to construction starting. Additional time may be required for review and approval and shall be determined during the pre-construction meeting.

SECTION 02100
TRAFFIC CONTROL

1.03 TRAFFIC CONTROL / ACCESS

- A. Contractor shall be responsible to present traffic control plans at the regularly scheduled construction progress meeting for review as outlined in Technical Specification Section 01014 – WORK SEQUENCE, subsection 1.04.C. Uninterrupted access to commercial businesses and residences shall be maintained at all times. Contractor shall be responsible to adjust work schedule to minimize disruption to normal operation of businesses.
- B. Contractor shall be responsible to coordinate traffic control plans and inform the project's public relations representative of any potential impacts to commercial businesses or residents. Contractor shall adjust work activities and schedules to minimize disruptions to the City, residents, and traveling public. City reserves the right to request the Contractor move his operations or modify work plans and schedules to minimize disruptions to commercial business or residents at no cost to the City.

1.04 TRAFFIC CONTROL PLAN DISTRIBUTION

- A. Copy of approved TCP's shall be submitted to the City and City's Representative prior to start of work.
- B. Copy of approved TCP shall be on-site and available for review at all times work activities are commencing. Failure to have approved TPC on-site while work is commencing will be grounds for rejection and non-payment of work being performed.

PART 2 - PRODUCTS
(NOT USED)

PART 3 - EXECUTION
(NOT USED)

**** END OF SECTION ****

EXHIBIT F
Statement of All Clarifications and Assumptions (if any)

(6 pages - To be Incorporated by Amendment)

[SEE ATTACHED](#)

EXHIBIT F: CLARIFICATIONS & ASSUMPTIONS

ARROWHEAD SEWER LINES PHASE 1.1

WAS LINE REALIGNMENT

COG PROJECT NO.: 202104

GMP2

General Clarifications & Assumptions:

1. Fee Exclusions: GMP excludes all costs associated with City and/or Other Entity permit fees and plan review fees not specifically identified in this GMP, Right-of-Way Permit fees, City inspection and testing costs, impact fees, pavement restoration fees, utility company fees, water meters/meter installations except for construction water, and/or any other fees not specifically identified herein.
2. Unit Price Contract Administration: This GMP will be administered as a Measured Quantity/Unit Price, Guaranteed Not-to-Exceed Contract. The Schedules of Values are defined by the individual work/pay items plus fee structure, and markups. Final contract price/payout will be based on field measured, final completed quantities at the approved unit prices, approved allowance, and/or and approved change orders. It is understood that these City approved prices including mark-ups are the "Cost of the Work". Quantity overruns shall be paid at the unit price established in the Schedule of Values for the pay item and shall be paid for through Project Contingency or Allowance budgets.
3. GMP does not include costs associated with blasting or hydraulic breakers of any kind.
4. Excludes costs for repairing pre-existing damage to any private and public roadways used to access this project. If additional pre-existing condition repairs are required, costs shall be reimbursed through Project Contingency.
5. GMP assumes access can be granted to CMAR for suitable staging and construction efforts at the various sections of right-of-way (ROW) within approved traffic control plans.
6. Existing Utilities: GMP excludes cost for the removal or relocation of existing utilities not specifically identified as being removed or relocated in Project Documents or in this GMP. If lines are encountered that conflict with this GMP's scope of work, it will be considered a change in scope of work to be reimbursed through Project Contingency. Costs for Private irrigation or any other unmarked utility damaged as part of this project shall compensated out of Project Contingency.
7. GMP does not include any specialty asphalt, concrete, and/or pavers, unless expressed explicitly on the plans. If any specialty items are encountered or required, additional costs shall be compensated through Project Contingency.
8. GMP does not include asphalt pavement sealing (fog seal, slurry seal, micro seal, etc.)
9. Project Contingency funds shall cover material escalation costs related to aggregates, asphalt, pipeline, shotcrete, concrete, etc. as compared to vendor/supplier quote. This will be cost reimbursable with appropriate back-up documentation showing the cost impacts on the project from GMP to construction plus applicable mark-ups, insurance, bond, and taxes per the contract.
10. Allowance are only anticipated/estimated costs and overruns of the allowances will be compensated through Project Contingency.
11. GMP pricing is based on 24-hour traffic control restrictions on 67th Ave for duration of work scope located in the right-of-way on 67th Ave.

12. No weather days have been accounted for in the CPM Schedule. A weather-related delay may be claimed on days where rainfall did not actually occur, but follows a day of rain that has impacted the schedule. If the project experiences weather-related delays, the CMAR shall be entitled to negotiate a commensurate extension of time associated with delays and, if necessary, a Price Adjustment for additional costs associated with schedule accelerations.

Schedule of Value Pay Item Inclusions and Clarifications:

ITEM #	DESCRIPTION	INCLUSIONS & CLARIFICATIONS
1	General Conditions	<u>Inclusion(s):</u> •Project Manager for 2.5 months at 25% allocation to this project. •Project Engineer for 2.5 months at 40% allocation to this project. •Project Superintendent for 2.5 months at 85% allocation to this project. •Project sanitation and portable restrooms for 3 months. •ST&S, safety supplies, training, and fall protection based on Project's Direct Labor Manhours. •Yard lease, field radios, cell phones, tablets, Procore, and storage container.
2	Mobilization/Demobilization	<u>Inclusion(s):</u> •B&F equipment mobilization to the site and demobilization from the site •Unloading and organizing material deliveries •Temporary fence delivery, pickup, and rental. •Plate and shoring delivery and pickup. •Furnishing and installing 2 each project signs. •Construction water on the project for all activities including, but not limited to: dust mitigation, pipeline testing, etc. •Water meter, backflow preventer, and hoses •Dust permit fees <u>Clarification(s):</u> •B&F's mobilization costs include a one-time round trip for personnel, equipment, and supplies. Project delays that result in demobilization of personnel and/or equipment are not included. Any additional costs incurred are a change in scope and shall be reimbursed accordingly. •GMP pricing is based on equipment being staged in the right-of-way within barricade setups during non-work hours to avoid additional costs associated with moving the equipment to and from the staging yard before and after each shift.

3	SWPPP	<u>Inclusion(s):</u> •Third-party service to provide the SWPPP project book and complete inspections and record keeping. •SWPPP materials to protect drainage inlets from storm water runoff. •Street sweeping •AZDEQ notice of intent and permit fees. •Labor and equipment to perform setup of SWPPP and routine maintenance of the site cleaning and repairing and replacing BMP's weekly as needed.
4	Potholing	<u>Inclusion(s):</u> •13 each standard potholes to locate existing utilities identified on project drawings.
5	Skunk Creek Clearing/Grubbing/Grading/Restoration	<u>Inclusion(s):</u> •Clear and grub wash area for ingress/egress of equipment required to complete installation of steel casing. •Grading and leveling existing grade and washed out areas for forklift and manlift to ingress/egress under bridge. •Restore wash to existing grade and clean-up wash area.
6	Remove & Replace AC Pavement, COG Std Det G-319	<u>Inclusion(s):</u> •Sawcutting of asphalt for mainline trench operations •Asphalt subcontractor costs to perform sawcut 12" on each side of mainline trench, remove and haul-off 12" of existing asphalt located on each side of trench, perform fine grading, and install replacement asphalt. <u>Clarification(s):</u> •GMP quantities exceed quantities identified on plans because City of Glendale's standard detail indicates a 4' wide minimum trench. Additional asphalt quantities have been included for areas in which remnant asphalt shall be removed and replaced.
7	Remove & Replace Concrete Vertical Curb & Gutter to Nearest Joint MAG Std Det 220-1, Type A	<u>Inclusion(s):</u> •Sawcut, remove, haul-off, complete subgrade preparation, form, and pour new concrete curb and gutter.
8	Remove & Reinstall Guardrail (ADOT Std Det C-10.30)	<u>Inclusion(s):</u> •Removal of guardrail for mainline operations and reinstalling existing guardrail.
9	Remove & Replace Sidewalk to The Nearest Joint, MAG Std Det 230	<u>Inclusion(s):</u> •Sawcut, remove, haul-off, complete subgrade preparation, form, and pour new sidewalk.
10	Remove & Replace Sidewalk Ramp, MAG Std Det 237-2	<u>Inclusion(s):</u> •Sawcut, remove, haul-off, complete subgrade preparation, form, and pour new concrete sidewalk ramp.

11	Abandon Existing 6" WAS Line, Fill w/ Grout	<u>Inclusion(s):</u> •Includes labor, equipment, and material to fill existing 6" WAS line with flowable grout.
12	Furnish & Install 12" Steel Casing	<u>Inclusion(s):</u> •Concrete scanning, which includes costs for manlift and subcontractor costs to scan bridge to ensure pipe hanger anchors do not conflict with existing structural infrastructure. •Labor and equipment to install pipe hangers. •Labor, equipment, and welder to string and weld casing. •Crew time for hanging/mounting steel casing. •Material costs for pipe hanger hardware, epoxy, steel casing, spacers, and link seal. <u>Clarification(s):</u> •Costs for performing pull tests of anchors will be invoiced to the Quality Control Testing Allowance. •Project Documents did not indicate coating of steel casing as required, if such coating is required, Project Contingency funds shall be utilized for coating steel casing.
13	Furnish & Install 6" HDPE DR11	<u>Inclusion(s):</u> •Includes labor, equipment, subcontractor/vendor, and material costs to perform installation of new 6" HDPE WAS line per project Documents. •Includes labor and equipment for fusing and installing new 6" HDPE in 12" steel casing. •MAG spec ABC for bedding and pipe zone. •1/2 Sack ABC Slurry for backfill from 12" above to of pipe to bottom of asphalt. •HDPE hydrostatic pressure testing. •Includes haul-off of spoils and dump fees associated with said work. <u>Clarification(s):</u> •GMP pricing is based on 24-hour southbound road restrictions on 67th Ave.
14	Furnish & Install 2" Combination Air Valve & Drain Line	<u>Inclusion(s):</u> •Includes labor and equipment required to install 2" Combination Air Valve per Det 3, Dwg D1,
15	Concrete Encasement, MAG Std Dtl 404-1,2,3	<u>Inclusion(s):</u> • Labor, equipment, and materials to install concrete encasements of existing utilities and new 6" WAS line.
16	Connect to Existing 6" WAS Line	<u>Inclusion(s):</u> •Includes crew and material costs for completing connections to existing WAS

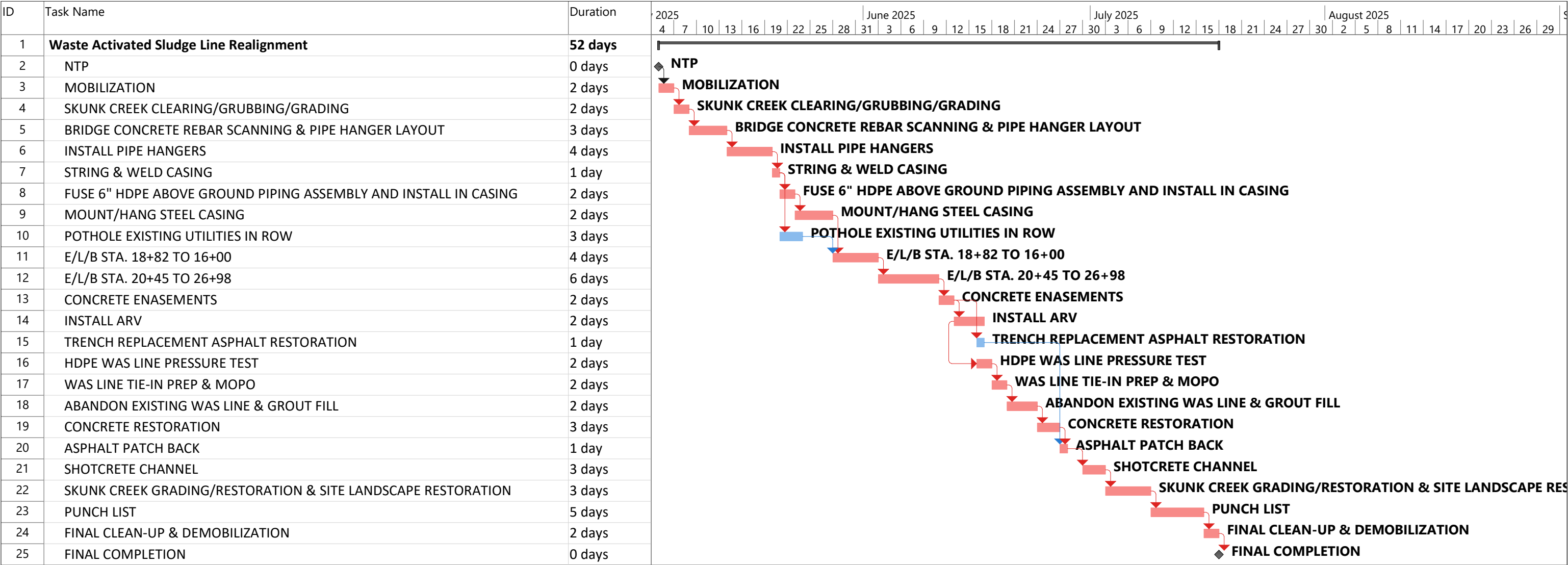
		line per Project Documents. <u>Clarification(s):</u> • During preconstruction meetings, it was noted that final tie-in configurations and tie-in points will be determined based on existing WAS line ductile iron pipe condition. If final tie-ins shall be made within vault structures, impacts will have to be evaluated and, if agreed that there are cost impacts, costs shall be reimbursed through Project Contingency.
17	Striping (Min Mob)	<u>Inclusion(s):</u> • Includes subcontractor costs for subcontractor minimum mobilization to perform striping replacement of the impacted crosswalk areas at 67th Ave and Grovers.
Allowance	Traffic Control	<u>Inclusion(s):</u> • This allowance will be utilized to cover anticipated traffic control costs and shall be reimbursed via an allowance with appropriate back-up documentation. • Traffic control plan development • Barricade device rental • Traffic control subcontractor labor and equipment to deliver, set up, maintain, and change/modify traffic control barricades.
Allowance	Construction Survey & Layout	<u>Inclusion(s):</u> • Surveyor to perform site survey layout/staking and benchmarks with remarking as needed • Surveyor to record as-builts shots and compile as-built data onto Project Drawings • Surveyor to provide final signed and sealed as-builts.
Allowance	Pump & Transport Waste Sludge From ARWRF	<u>Inclusion(s):</u> • Anticipated/estimated costs to perform pumping and transport of sludge from ARWRF during MOPO and final new to existing WAS line tie-in efforts.
Allowance	Above Ground Pipe Protection Cage	<u>Inclusion(s):</u> • Bid item is anticipate/estimate cost only for the furnishing, fabricating, and installing of the above ground pipe protection cages.
Allowance	Quality Control Testing	<u>Inclusion(s):</u> • Quality control and material testing per MAG testing requirements to be performed by a third-party materials testing agency. • Pull test of pipe hanger embedded anchors.
Allowance	Landscape Restoration	<u>Inclusion(s):</u> • This allowance bid item is to-be utilized for reimbursement of any required landscape restoration costs associated with construction impacts for the installation of the Arrowhead WAS Line. • The allowance is an anticipated cost only to include, but not limited to the following: labor, equipment, material, and vendors costs for repairing irrigation lines, replacing landscape rock, bushes, shrubs, plants, trees, etc.

Allowance	Flood Control Channel Liner Restoration	<u>Inclusion(s):</u> • This allowance bid item is to-be utilized for reimbursement for efforts associated with the flood control shotcrete liner restoration.
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EXHIBIT G
Schedule of Major Milestones

(1 pages - To be Incorporated by Amendment)

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Task		Inactive Task		Manual Summary Rollup		External Milestone		Manual Progress	
Split		Inactive Milestone		Manual Summary		Deadline			
Milestone		Inactive Summary		Start-only		Critical			
Summary		Manual Task		Finish-only		Critical Split			
Project Summary		Duration-only		External Tasks		Progress			

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EXHIBIT H
Dispute Resolution Procedures

1. Disputes.

- 1.1** Each Dispute arising out of or related to this Agreement (including Disputes regarding any alleged breaches of this Agreement) shall be initiated and decided under the provisions of this Exhibit.
- 1.2** CMAR and City shall each designate in writing to the other party, from time to time, a member of senior management who shall be authorized to attempt to expeditiously resolve any Dispute relating to the subject matter of this Agreement in an equitable manner.
- 1.3** A party shall initiate a Dispute by delivery of written notice to the members of management designated by the respective parties under Section 1.2 of this Exhibit.
- 1.4** The parties must:
 - (A) Attempt to resolve all Disputes promptly, equitably and in a good faith manner; and
 - (B) Provide each other with reasonable access during normal business hours to any and all non-privileged records, information and data pertaining to any such Dispute.
- 1.5** With respect to matters concerning modification of the GMP or any schedule, CMAR must first follow the provisions of any Claim procedure established by the Design-Build Agreement before seeking relief under these Procedures.

2. Emergency Arbitration.

- 2.1** If the parties are unable to accomplish resolution of a Dispute, the expedited resolution of which either party considers necessary to prevent or mitigate a material delay to the critical path of the Services (a "Time Sensitive Dispute") within two days after the Time Sensitive Dispute has been initiated by a party, either party may thereafter seek emergency relief before an emergency arbitrator (the "Emergency Arbitrator") appointed as follows:
 - (A) The parties will exercise best efforts to pre-select an Emergency Arbitrator within 20 days after entering into this Agreement;
 - (B) If the Emergency Arbitrator has not been selected at the time a party delivers Notice of a Time Sensitive Dispute, the parties will each select a representative within one day after the Notice is delivered and the two representatives will then select the Emergency Arbitrator by the third day following delivery of the Notice.
 - (C) The Emergency Arbitrator shall be an attorney with at least ten (10) years' experience with commercial construction legal matters in Maricopa County, Arizona, be independent, impartial, and not have engaged in any business for or adverse to either party for at least ten (10) years.
- 2.2** The Emergency Arbitrator will conduct a hearing and render a written determination on the Dispute to both parties within five business days of the matter being referred to him or her, all in accordance with Rules O-1 to O-8 of the

American Arbitration Association ("AAA") Commercial Rules-Optional Rules for Emergency Protection Commercial Rules ("AAA Emergency Rules").

- 2.3 Although the hearing will be conducted using AAA rules, unless both parties agree otherwise, this dispute process will not be administered by the AAA but will be conducted by the parties in accordance with these procedures.
- 2.4 If, however, an Emergency Arbitrator has not selected within three days after delivery of the Notice, either party may upon three days additional notice, thereafter seek emergency relief before the AAA, in accordance with the AAA Emergency Rules, provided that the Emergency Arbitrator meets the qualifications set forth above.
- 2.5 All proceedings to arbitrate Time Sensitive Disputes shall be conducted in Glendale, Arizona.
- 2.6 Presentation, request for determination (i.e., a party's prayer), and the Emergency Arbitrators decision will adhere to the procedures required in Section 3.6 of this Exhibit.
- 2.7 The finding of the Emergency Arbitrator with respect to any Time Sensitive Dispute will be binding upon the parties on an interim basis during progress of the Services, subject to review de novo by arbitration after the Project Substantial Completion Date.
- 2.8 The time and extent of discovery will be as determined by the Emergency Arbitrator.
 - (A) Discovery orders of the Emergency Arbitrator will consider the time sensitivity of the matter and the parties desire to resolve the issue in the most time and costs efficient manner;
 - (B) The parties are obligated to cooperate fully and completely in the provision of documents and other information, including joint interviews of individuals with knowledge such that the matter moves toward resolution in the most time and costs efficient manner and the Emergency Arbitrator is empowered to fashion any equitable penalty against a party that fail to meet this obligation.

3. Non-Emergency Arbitration.

- 3.1 Except as provided in Section 5 of this Exhibit, any Dispute that is either a non-emergency Dispute that has not been resolved by negotiation, or a de novo review of an AAA emergency arbitration will be decided by binding arbitration by a panel of three arbitrators in accordance with, but not necessarily administered by, the Construction Industry Rules of the AAA.
 - (A) The parties shall each select an arbitrator within 15 days after notice that a party desires to resolve a dispute by arbitration.
 - (B) The two arbitrators shall then each select a third arbitrator. If an arbitrator is not selected within any such 15 day period, then the arbitrator shall be appointed by the AAA.
- 3.2 The arbitrator(s) shall meet the qualifications of Emergency Arbitrators as provided in Section 2 of this Exhibit.

- 3.3 The arbitrators do not have the authority to consider or award punitive damages as part of the arbitrators' award.
- 3.4 In connection with such arbitration, each party shall be entitled to conduct up to five depositions, and, no less than 90 days prior to the date of the arbitration hearing, each party shall deliver to the other party copies of all documents in the delivering party's possession that are relevant to the dispute.
- 3.5 The arbitration hearing shall be held within 150 days of the appointment of the arbitrators.
- 3.6 At the arbitration hearing, each party will argue its position to the arbitrators in support of one proposed resolution to the dispute (a "Proposed Resolution").
- (A) Each party's Proposed Resolution must be fully dispositive of the dispute.
 - (B) The arbitrators must select one Proposed Resolution by majority consent and are not free to fashion any alternative resolutions.
 - (C) The parties must submit their proposed resolution of the matter to the arbitrators and the other party 15 days prior to the date set for commencement of the arbitration proceeding.
 - (D) The decision of the arbitrators will be forwarded to the parties within 15 days after the conclusion of the arbitration hearing.
 - (E) The decision of the arbitration panel is final and binding on the parties and may be entered in any court of competent jurisdiction for the purpose of securing an enforceable judgment.
 - (F) All costs and expenses associated with the arbitration, including the reasonable legal fees and costs incurred by the prevailing party, must be paid by the party whose position was not selected by the arbitrators.
4. **Continuing Work.** Unless otherwise agreed to in writing, CMAR must continue to perform and maintain progress of the Work during any Dispute Resolution or arbitration proceedings, and City will continue to make payment to CMAR in accordance with the Agreement.
5. **Exceptions.**
- 5.1 Neither City nor CMAR are required to arbitrate any third-party claim, cross-claim, counter claim, or other claim or defenses in any action that is commenced by a third-party who is not obligated by contract to arbitrate disputes with City and CMAR.
 - 5.2 City or CMAR may commence and prosecute a civil action to contest a lien or stop notice, or enforce any lien or stop notice (but only to the extent the lien or stop notice the party seeks to enforce is enforceable under Arizona law), including, without limitation, an action under A.R.S. § 33-420, without the necessity of initiating or exhausting the procedures of this Exhibit.
 - 5.3 This Exhibit does not apply to, and may not be construed to require arbitration of, any claims, actions or other process undertaken, filed, or issued by the City of Glendale Building Safety Department, Code Compliance Department, Police Department, Fire Department, or any other agency of City acting in its

governmental permitting, for the benefit of public health, safety, and welfare, or other regulatory capacity.

- 5.4** In connection with any arbitration, the arbitrators do not have the authority to, and may not enforce, any provision of the Federal or Arizona Rules of Civil Procedure.