



Steven M. Clouse WRC Headworks Enhancements Phase 2 Project
Solicitation No.: CO-00402-SM
Job No: 19-6504

ADDENDUM 1
May 25, 2021

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

1. **We are in review of the bid documents for the Steven M. Clouse WRC Headworks Enhancements Phase 2 Project Solicitation Number: CO-00402-SM, and I wanted to confirm the extent of negotiation for the contract. Does SAWS accept redlines but minimal or is there no negotiation?**

Response: Contractor shall bid project as stipulated in the plans and specifications. Any alternations to the plans or specifications is not acceptable.

2. **I have an additional question regarding the solicitation documents. The portal includes the contract and site plans, are there any additional documents or drawings associated with this project that are available? Lastly, Wood intends to submit a proposal electronically and are requesting access to the File Transfer Protocol site?**

Response: No additional document or drawings are available.

3. **Question: Can the conduits on pages E-08 and E-09 be routed above the concrete pavement to avoid future structural failures.**

Page E-08 and E-09 general note # 4 PROVIDE NEW CONDUITS FOR CONNECTIONS TO GRIT WASHERS. SAWCUT EXISTING CONCRETE PAVEMENT TO MINIMIZE EXCAVATION NEEDED FOR CONDUIT ROUTING. CONTRACTOR SHALL RESTORE CONCRETE PAVEMENT TO ITS PREVIOUS CONDITION UPON COMPLETION OF THE INSTALLATION.

Response: Conduit may also be routed above the concrete provided it does not present a trip hazard.

4. **There is a Pipe Schedule at the end of Spec Section 40 23 39 and in this pipe schedule, the Grit Force Main pipe is required to be cement lined and the Grit Drain Line pipe is required to be epoxy lined. Can you please confirm if this is correct?**

Response: The grit force main and grit drain lines should both be epoxy lined. Spec Section 40 23 39, Pipe Schedule table was revised.

5. **The scope for valves for this project is not clear as to what is required, how many and the correct size for each.**

- a) **For the Grit Vortex System, Smith and Loveless (S/L) has provided a scope indicating the valves included in their scope, however, their scope is a bit confusing. For the Vortex System they indicate 8 each 1" solenoid valves and 8 each PVC ball valves, however, these appear to be**

excluded and required to be supplied by others. The contract drawings show these solenoid valves to be 2" and not 1", only 7 each solenoid valves are required due to No. 6 already being complete, and for the manual valves, 3 each are required at each solenoid location for a total of 21 each required. Also, the valve specifications do not include a spec for either of these valves. Therefore, for the fluidizing system, we need to know if the S/L is excluding them, what size is required, how many and what is the specification requirements for these valves.

Response: The project will require three (3) 2-inch ball valves and one (1) 2-inch solenoid valve at each fluidizing assembly. A total of seven (7) fluidizing assemblies are required. All the required valves are shown on the plans and will be provided by Smith and Loveless and installed by the Contractor.

- b) For the Grit Washing System, the issue is basically the same. The drawings, the spec requirements and the scope form S/L all do not match and it is unclear what is required. For the Grit Washing system, we need to know how many valves are required, what size is required, what spec is required and what S/L is excluding from their scope.**

Response: The Smith and Loveless (S&L) Grit Washing System is provided with all the necessary accessories and valves by S&L. The drain line from the concentrator, overflow, and organic discharge line for each grit washing system is connected to the 8-inch drain line. No valves are required on the 8, 12, and 16-inch drain lines. This is depicted on Sheet M-06.

- c) For the Grit Pumps, the issue is basically the same. We need to know how many, what size, what spec and which items are included/excluded by S/L.**

Response: Each grit pump includes a 6-inch Pinch Valve that will be provided by S&L and installed by the Contractor. Sheet M-08 was updated to show the 6-inch Pinch Valve.

It is the Contractor's responsibility to coordinate with the S&L to clarify equipment to be supplied by S&L and equipment to be supplied by bidder. Contractor is ultimately responsible for supplying all the items shown on the plans and specifications.

CHANGES TO THE SPECIFICATIONS

1. Special Conditions

Delete SC9. Grit Removal System (Performance Testing) (Quote Line Item). Pricing for performance testing is included in SC8, Grit Removal System (Equipment).

2. Bidding Wage Decision Building

Remove and replace in its entirety with the revised version (rev. 5/7/2021, General Decision Number: TX20200231) attached to this addendum. This version should be utilized by the awarded contractor for the project.

3. Section 40 23 39 – Process Piping General

Modify Piping Schedule Table, Grit Force Main (Pressure) shall be epoxy lined not cement mortar lined.

4. Section 40 61 13 – Process Control Systems General Provisions

Delete Section 40 61 13 1.3.A.2 and **replace** with the following:

5. Approved Process Control System Integrators (PCIS) are as follows:

- a. **Prime Controls**
1725 Lakepointe Dr.
Lewisville, TX 75057
Phone: 972-221-4849

- b. **Control Panels USA**
16310 Bratton Lane, Suite 100
Austin, Texas 78728
Phone: 512-863-3224
- c. **RLC Controls Inc.**
8115 Hicks Hollow
McKinney, Texas 75071
Phone: 972-542-7375
- d. **Walker Industrial**
408 W. Nakoma Dr.
San Antonio, Texas 78216
Phone: 210-824-9000
- e. **Tesco Controls, Inc.**
1221 Abrams Rd., Suite 327
Richardson, TX 75081
Phone: 714-255-8590

6. Section 40 61 93 - Process Control System Input-Output List

Add to Section 40 61 93 Attachment A the following Input-Output Points:

TAGNAME	DESCRIPTION	POINT TYPE	FRONT/TO DEVICE	DRAWING #
LCP100_BEACON	Headworks PLC Beacon Trigger	DO	LCP-100	
LCP200_BEACON	Grit PLC Beacon Trigger	DO	LCP-200	

7. Section 40 61 96 - Process Control Descriptions

Delete Section 40 61 96.11.A and **replace** with the following:

A. Scope:

1. **CONTRACTOR shall provide, through the services of a single Process Control System Integrator (PCSI), all labor and documentation as shown, specified, and required to configure the control system complete and operational.**
2. **PCSI is responsible for programming and configuring the following Programmable Logic Controllers (PLC) and Operator interface Terminals (OIT):**
 - a. **PLC-100 and associated OIT in the Plant Influent Control Panel (LCP-100).**
 - b. **PLC-200 and associated OIT in the Grit Removal Master Control Panel (LCP-200).**
3. **Grit Washer System manufacturer is responsible for programming and configuring the following PLCs and associated panel mounted OITs:**
 - a. **PLC-201 in LCP-201, Grit Washer 1&2 and Grit Pump 1&2 Local Control Panel**
 - b. **PLC-202 in LCP-202, Grit Washer 3&4 and Grit Pump 3&4 Local Control Panel**
 - c. **PLC-203 in LCP-203, Grit Washer 5&6 and Grit Pump 5&6 Local Control Panel**
 - d. **PLC-204 in LCP-204, Grit Washer 7&8 and Grit Pump 7&8 Local Control Panel**

8. Section 40 61 96 - Process Control Descriptions

Delete Section 40 61 96.1.1 D. 5. and **replace** with the following:

5. **All actuators operated by the PLC shall be provided with a software generated fail alarm. The fail alarm shall be active, if any one of the following conditions occurs when operated in the remote mode:**
 - a. **Fail to Open: The actuator is requested to open either manually or automatically by the PLC and the open status is not received within a preset time delay. The time delay shall be determined during field testing.**

- b. **Fail to Close:** The actuator is requested to close either manually or automatically by the PLC and the close status is not received within a preset time delay. The time delay shall be determined during field testing.
- c. **Provide a software reset function for clearing the software generated fail.** The reset function shall be accessible from the equipment control pop-up at the HMI.

9. Section 40 61 96 - Process Control Descriptions

Delete Section 40 61 96.3.1 D. 3. and **replace** with the following:

- 3. **When the plant total flow is below 150 MGD, the primary influent gate should be fully opened. When the plant total flow exceeds 150 MGD, both slide gates should be fully opened. When the plant total flow falls below an operator adjustable setpoint (initially set to 140 MGD) the secondary slide gate shall close.**

10. Section 40 61 96 - Process Control Descriptions

Delete Section 40 61 96.3.2 D. 2. and **replace** with the following:

- 2. **In Remote Auto mode, the slide gates should be opened /closed based on plant influent flow. North and South trains can be assigned as Primary or Secondary train by the operator. Further, designate Lead, Lag1, Lag2, and Lag3 slide gates to operate and open/close when plant flow reaches operator adjustable setpoints and initial values as described below:**
 - a. **Lead slide gate is always open.**
 - b. **Lag 1 Opens at 70 MGD, Closes at 60 MGD.**
 - c. **Lag 2 Opens at 150 MGD, Closes at 140 MGD.**
 - d. **Lag 3 Opens at 240 MGD, Closes at 230 MGD.**
 - e. **If a slide gate fails to open, the next gate in the sequence is used and all gates move up in the sequence queue.**
 - f. **Alternate Lead/lag slide gate designations every time Lag 1 is called to Open.**

11. Section 40 78 00 - Panel Mounted Instruments and Devices

Add Section 40 78 00.2.16 as follows:

2.16 BEACON / STROBE LAMP

- A. **General:** The beacon / strobe lamp shall provide a visual warning in the presence of any active unacknowledged alarm at each of the Control Panels (LCP-100 and LCP-200). The Beacon shall be installed in a manner such that the conduit is routed from the bottom of the panel from which it is fed, penetrations from the side or top of the panel shall not be permitted.
- B. **Required Features:**
 - 1. **Beacon Light: Rotating 360 degrees; 165 effective candlepower, 80 flashes per minute.**
 - 2. **Type: LED Lamp**
 - 3. **Lens Color: Red.**
 - 4. **Enclosure: As required based on area classification, minimum of NEMA 4X.**
 - 5. **Power: 120 VAC.**
- C. **PLC Digital Output Tags:**
 - 1. **AL-100**
 - 2. **AL-200**
- D. **Products and Manufacturers: Provide one of the following:**
 - 1. **Federal Signal.**
 - 2. **Allen Bradley.**
 - 3. **Edwards Signaling.**

4. Or Equal.

CHANGES TO THE PLANS

1. Remove the following sheet dated 4/7/2021 and replace with the attached sheet dated 5/21/2021:

- Sheet M-01 – Parshall Flume Influent Gate (Lower Plan)
- Sheet M-02 – Parshall Flume Influent Gate (Sections)
- Sheet M-08 – Grit Removal Facility Sections (1 of 2)

The remaining drawings shall remain the same.

END OF ADDENDUM

This Addendum, including these five (5) pages, is fifteen (15) pages with attachments in its entirety.

Attachments:

- Building Wage Decision (rev. 5/7/2021, General Decision Number: TX20200231 (7 pages total)
- Sheet M-01 (1 page total)
- Sheet M-08 (1 page total)



Javier Garcia, P.E.
Garcia Infrastructure Consultants, LLC



May 25, 2021

"General Decision Number: TX20210231 05/07/2021

Superseded General Decision Number: TX20200231

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	03/12/2021
2	05/07/2021

ASBE0087-014 03/02/2020

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)....	\$ 23.97	10.79

BOIL0074-003 01/01/2017

	Rates	Fringes
BOILERMAKER.....	\$ 28.00	22.35

ELEC0060-003 07/27/2020

	Rates	Fringes
ELECTRICIAN (Communication Technician Only).....	\$ 29.60	15%+5.45

 ELEC0060-004 07/27/2020

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 29.60	18%+5.45

 ELEV0081-001 01/01/2021

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 43.31	36.365

FOOTNOTES:

A. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked.

B. Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Friday after Thanksgiving Day; Christmas Day; and Veterans Day.

 ENGI0450-002 04/01/2014

	Rates	Fringes
POWER EQUIPMENT OPERATOR Cranes.....	\$ 34.85	9.85

 IRON0066-013 06/01/2020

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 23.45	6.83

 IRON0084-011 06/01/2020

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 25.26	7.13

 PLUM0142-009 07/01/2020

	Rates	Fringes
HVAC MECHANIC (HVAC Electrical Temperature Control Installation Only).....	\$ 30.25	13.36
HVAC MECHANIC (HVAC Unit Installation Only).....	\$ 30.25	13.36
PIPEFITTER (Including HVAC Pipe Installation).....	\$ 31.90	13.76
Including HVAC Pipe Installation		
PLUMBER (Excludes HVAC Pipe Installation).....	\$ 31.90	13.76
Excludes HVAC Pipe Installation		

 * SFTX0669-002 04/01/2021

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 31.68	22.50

 * SHEE0067-004 04/01/2021

	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation.....	\$ 27.58	15.76
HVAC Duct Installation Only.	\$ 27.58	15.76

SUTX2014-006 07/21/2014

	Rates	Fringes
BRICKLAYER.....	\$ 22.15	0.00
CARPENTER (Acoustical Ceiling Installation Only).....	\$ 17.83	0.00
CARPENTER (Form Work Only).....	\$ 13.63	0.00
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation.....	\$ 16.86	4.17
CAULKER.....	\$ 15.00	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 22.27	5.30
DRYWALL FINISHER/TAPER.....	\$ 13.81	0.00
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 15.18	0.00
ELECTRICIAN (Low Voltage Wiring Only).....	\$ 20.39	3.04
IRONWORKER, REINFORCING.....	\$ 12.27	0.00
LABORER: Common or General.....	\$ 10.75	0.00
LABORER: Mason Tender - Brick...	\$ 11.88	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.00	0.00
LABORER: Pipelayer.....	\$ 11.00	0.00
LABORER: Roof Tearoff.....	\$ 11.28	0.00
LABORER: Landscape and Irrigation.....	\$ 8.00	0.00
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 15.98	0.00
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 14.00	0.00
OPERATOR: Bulldozer.....	\$ 14.00	0.00
OPERATOR: Drill.....	\$ 14.50	0.00

OPERATOR: Forklift.....	\$ 12.50	0.00
OPERATOR: Grader/Blade.....	\$ 23.00	5.07
OPERATOR: Loader.....	\$ 12.79	0.00
OPERATOR: Mechanic.....	\$ 18.75	5.12
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 16.03	0.00
OPERATOR: Roller.....	\$ 12.00	0.00
PAINTER (Brush, Roller and Spray), Excludes Drywall Finishing/Taping.....	\$ 13.07	0.00
ROOFER.....	\$ 12.00	0.00
TILE FINISHER.....	\$ 11.32	0.00
TILE SETTER.....	\$ 14.94	0.00
TRUCK DRIVER: Dump Truck.....	\$ 12.39	1.18
TRUCK DRIVER: Flatbed Truck.....	\$ 19.65	8.57
TRUCK DRIVER: Semi-Trailer Truck.....	\$ 12.50	0.00
TRUCK DRIVER: Water Truck.....	\$ 12.00	4.11

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
 Wage and Hour Division
 U.S. Department of Labor
 200 Constitution Avenue, N.W.
 Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
 U.S. Department of Labor
 200 Constitution Avenue, N.W.
 Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

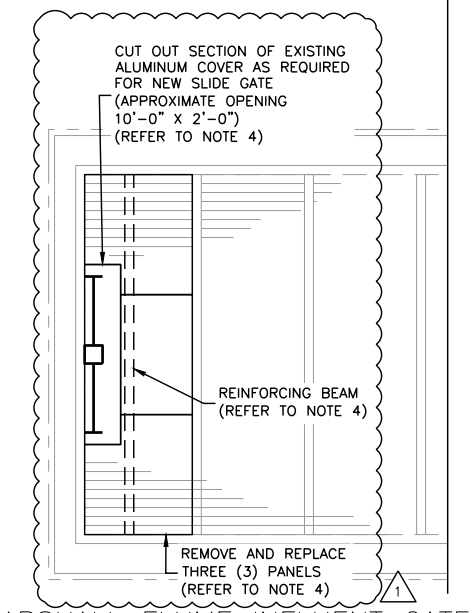
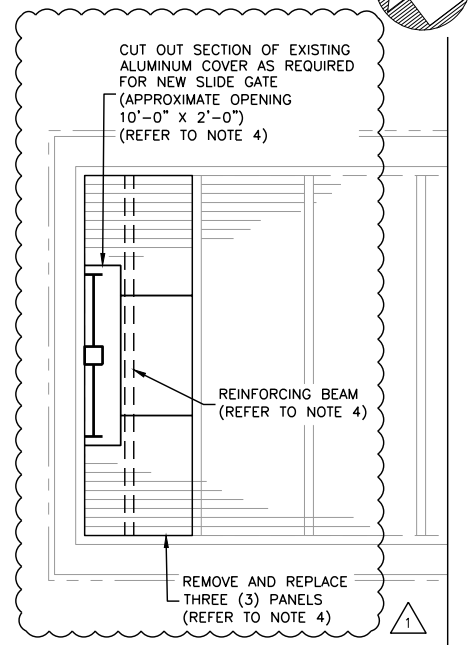
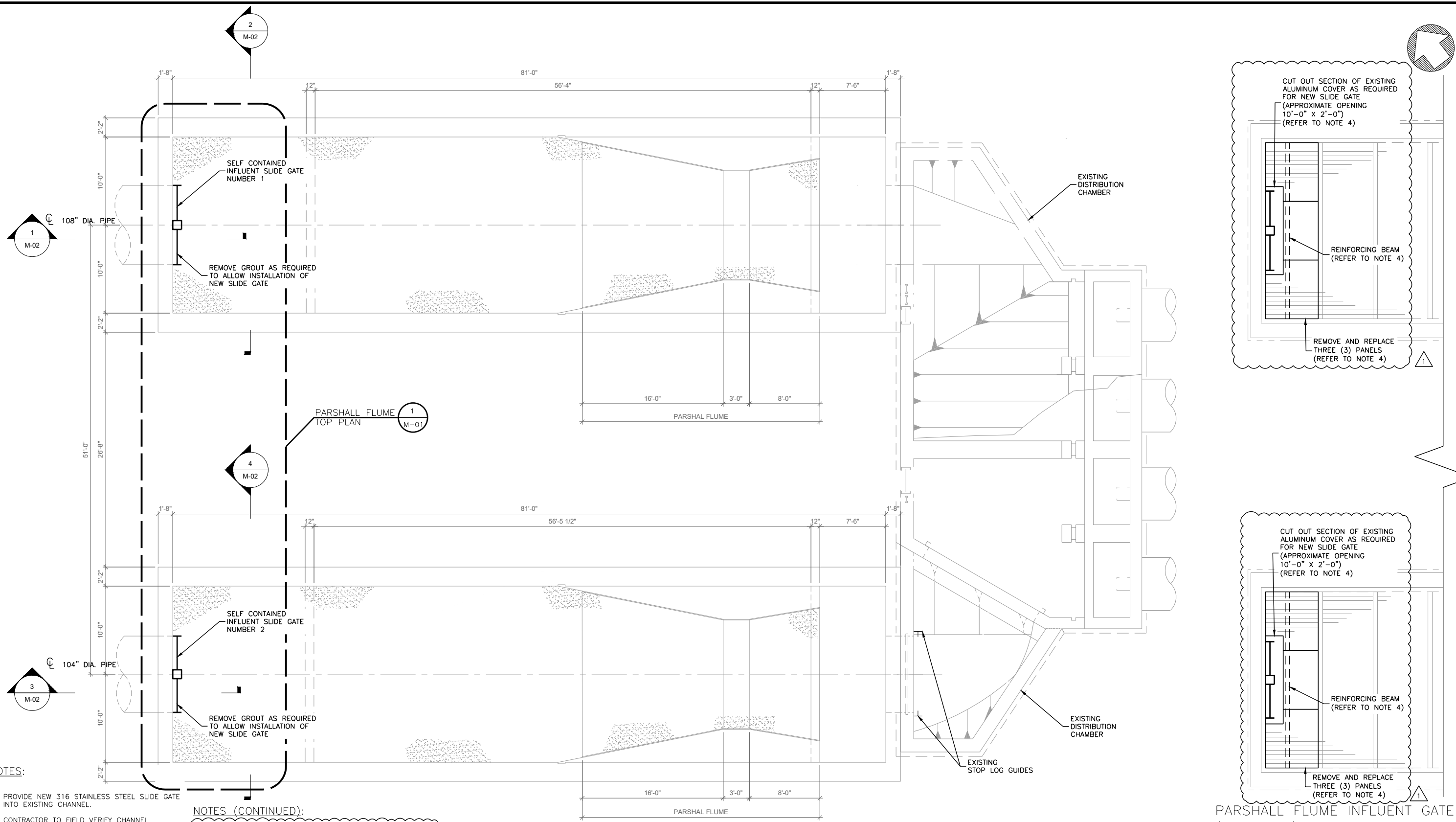
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
 U.S. Department of Labor
 200 Constitution Avenue, N.W.
 Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"



PARSHALL FLUME INFLUENT GATE (LOWER PLAN)
SCALE: 3/16"=1'-0"

PARSHALL FLUME INFLUENT GATE (TOP PLAN)
SCALE: 3/16"=1'-0"

- NOTES:**
1. PROVIDE NEW 316 STAINLESS STEEL SLIDE GATE INTO EXISTING CHANNEL.
 2. CONTRACTOR TO FIELD VERIFY CHANNEL DIMENSION AND COORDINATE WITH GATE MANUFACTURER.
 3. CONTRACTOR SHALL CLEAN PARSHALL FLUME CHANNELS PRIOR TO PERFORMING ANY WORK. ANY GRIT/DEBRIS MAY BE DISPOSED OF AT THE PLANT SLUDGE DRYING BEDS. COORDINATE WITH SAWS BEFORE INITIATING ANY DISPOSAL OF GRIT/DEBRIS AT THE SLUDGE DRYING BEDS.

- NOTES (CONTINUED):**
4. COORDINATE WITH ALUMINUM COVER MANUFACTURER (HALLSTEN CORP.) PRIOR TO MODIFICATIONS. REINFORCING BEAM AND THREE (3) REPLACEMENT PANELS SHALL BE SIZED AND PROVIDED BY HALLSTEN CORP. NEW PANELS SHALL MATCH EXISTING PANELS.
- CONTACT:
DAVID LUEDECKE
(512) 298-8552

Proj. No.:	1045	1	5-21-21	Addendum No. 1
Designed:	H3			
Drawn:				
Approved:	JG			
File:				
Revision	Date	Description		

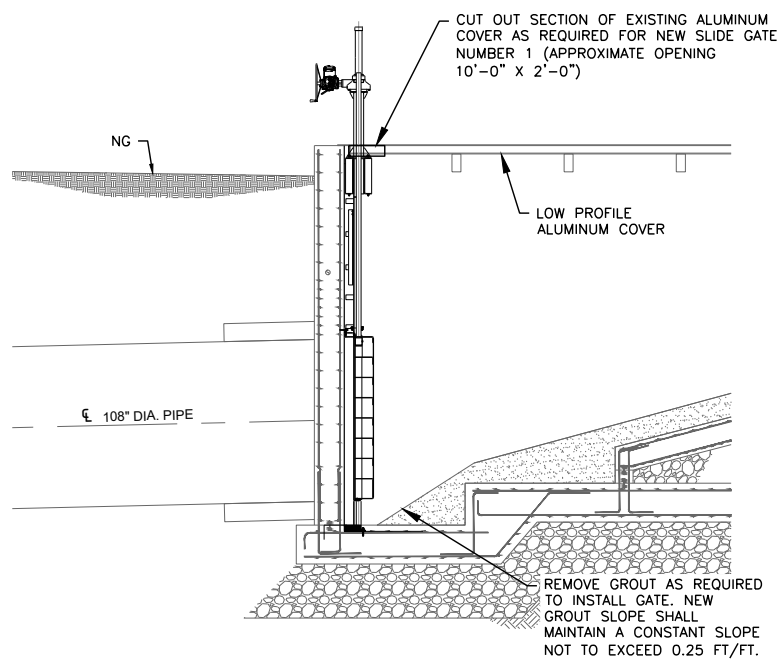


GIC
Garcia Infrastructure Consultants, LLC
Texas Firm No. F-17794
12042 Blanco Rd., Ste. 203
San Antonio, Texas 78216
Ph. (210) 437-0323

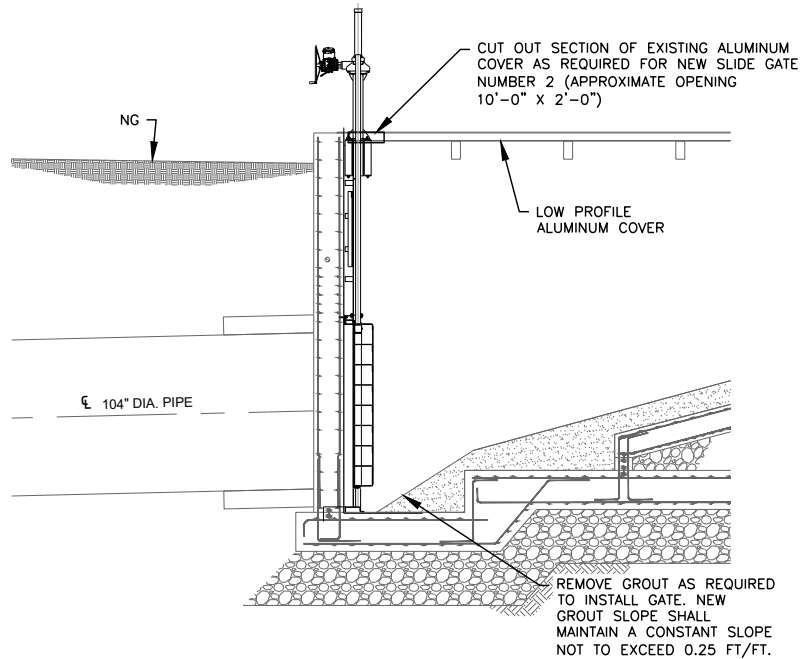
SAWS
SAN ANTONIO WATER SYSTEM
STEVEN M. CLOUSE WRC HEADWORKS ENHANCEMENTS PHASE 2
SAWS Job No. 19-6504
San Antonio, Texas

PARSHALL FLUME INFLUENT GATE (LOWER PLAN)

M-01
SHT 31 OF 57



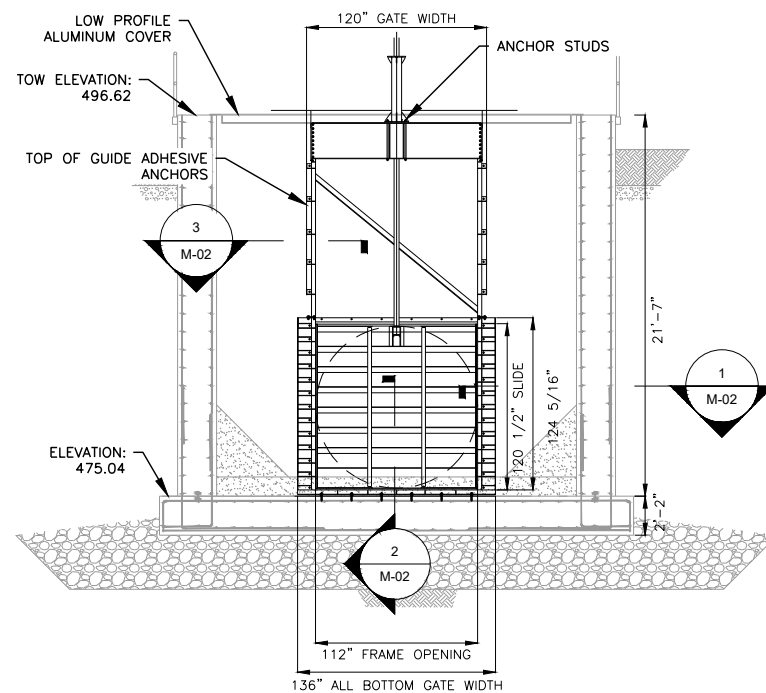
1 108" SLIDE GATE SECTION
M-05 SCALE: 3/16"=1'-0"



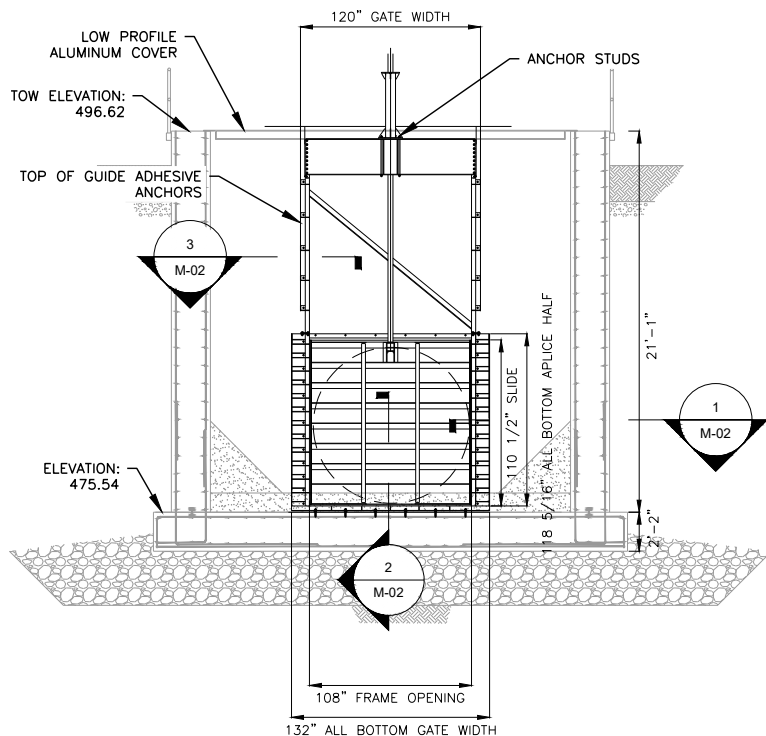
3 104" SLIDE GATE SECTION
M-01 SCALE: 3/16"=1'-0"

NOTES:

1. PROVIDE NEW 316 STAINLESS STEEL SLIDE GATE INTO EXISTING CHANNEL.
2. MAXIMUM WATER SURFACE ELEVATION OF 492.36-FT CORRESPONDING TO A FLOW OF 300 MGD. GATE SHALL BE DESIGNED TO ACCOMMODATE A STATIC HEAD OF 7.0 FEET. SEE SPECIFICATION 40 23 46 FOR GATE DIMENSION.
3. CONTRACTOR TO FIELD VERIFY CHANNEL DIMENSION AND COORDINATE WITH GATE MANUFACTURER.
4. CONTRACTOR SHALL CLEAN PARSHALL FLUME CHANNELS PRIOR TO PERFORMING ANY WORK. ANY GRIT/DEBRIS MAY BE DISPOSED OF AT THE PLANT SLUDGE DRYING BEDS. COORDINATE WITH SAWS BEFORE INITIATING ANY DISPOSAL OF GRIT/DEBRIS AT THE SLUDGE DRYING BEDS.



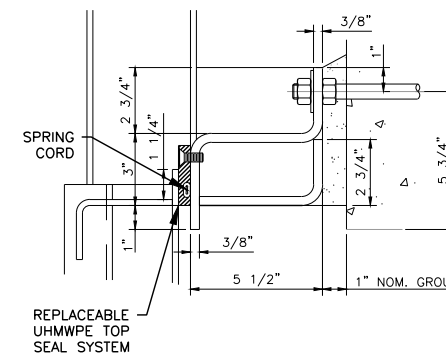
2 108" SLIDE GATE SECTION
M-01 SCALE: 3/16"=1'-0"



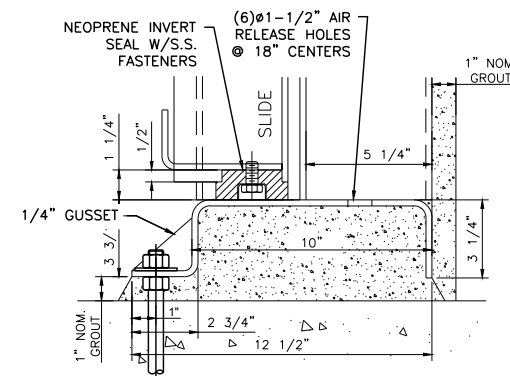
4 104" SLIDE GATE SECTION
M-01 SCALE: 3/16"=1'-0"

PARSHALL FLUME INFLUENT GATE (SECTIONS)

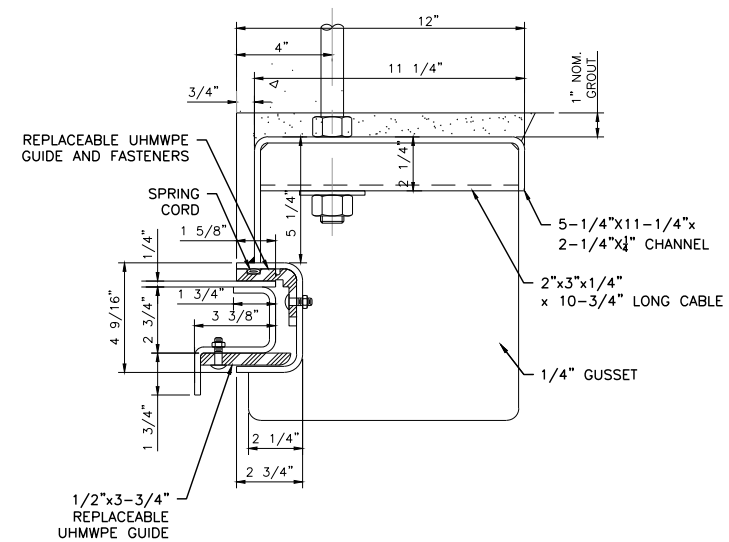
SCALE: AS NOTED



1 TOP SEAL DETAIL
M-02 SCALE: 6"=1'-0"



2 INVERTED ANCHOR DETAIL
M-02 SCALE: 6"=1'-0"



3 GUIDE DETAIL
M-02 SCALE: 6"=1'-0"

5/24/2021 L:\SHARE1\CADD\SAWS\1045-SMCWRC_GRIIT\DRAWINGS\SHEETS\M2.DWG

Proj. No.:	1045	1	5-21-21	Addendum No. 1
Designed:	H3			
Drawn:				
Approved:	JG			
File:				
Revision	Date	Description		



Garcia Infrastructure Consultants, LLC
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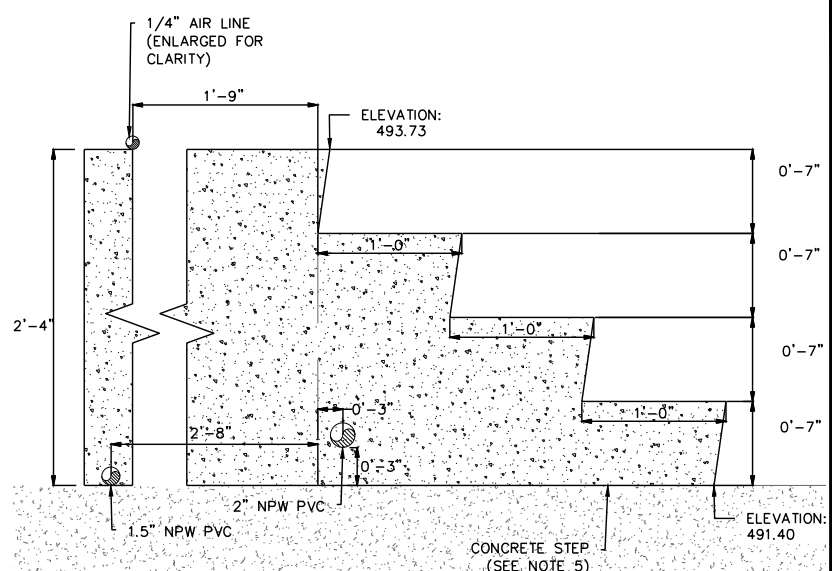
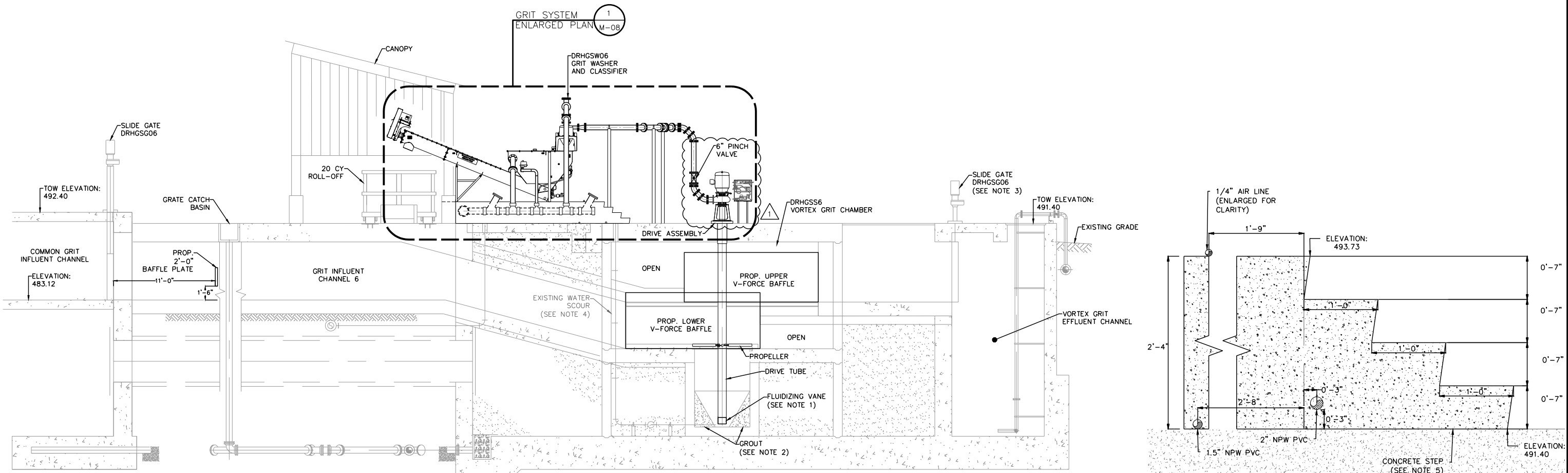


SAN ANTONIO WATER SYSTEM
STEVEN M. CLOUSE WRC HEADWORKS ENHANCEMENTS PHASE 2
SAWS Job No. 19-6504
San Antonio, Texas

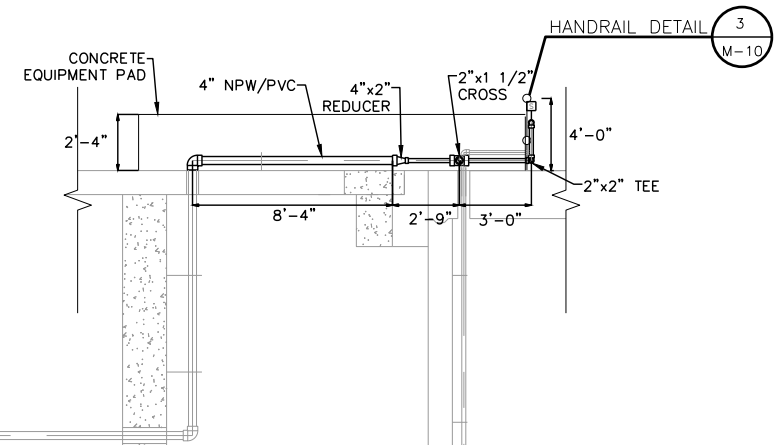
PARSHALL FLUME INFLUENT GATE (SECTIONS)

M-02

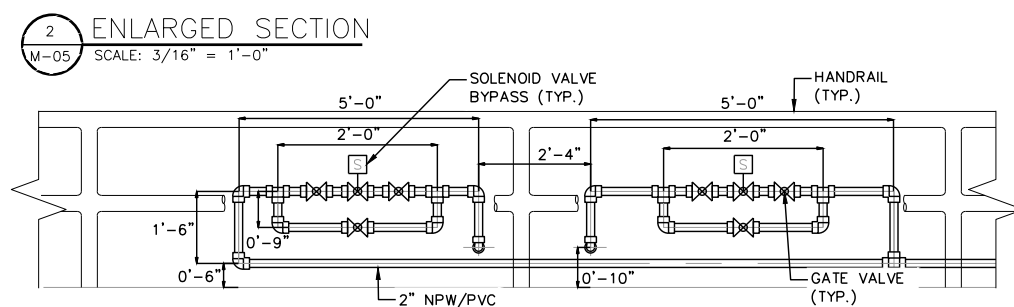
SHT 32 OF 57



1 SECTION
M-05 SCALE: 3/16" = 1'-0"

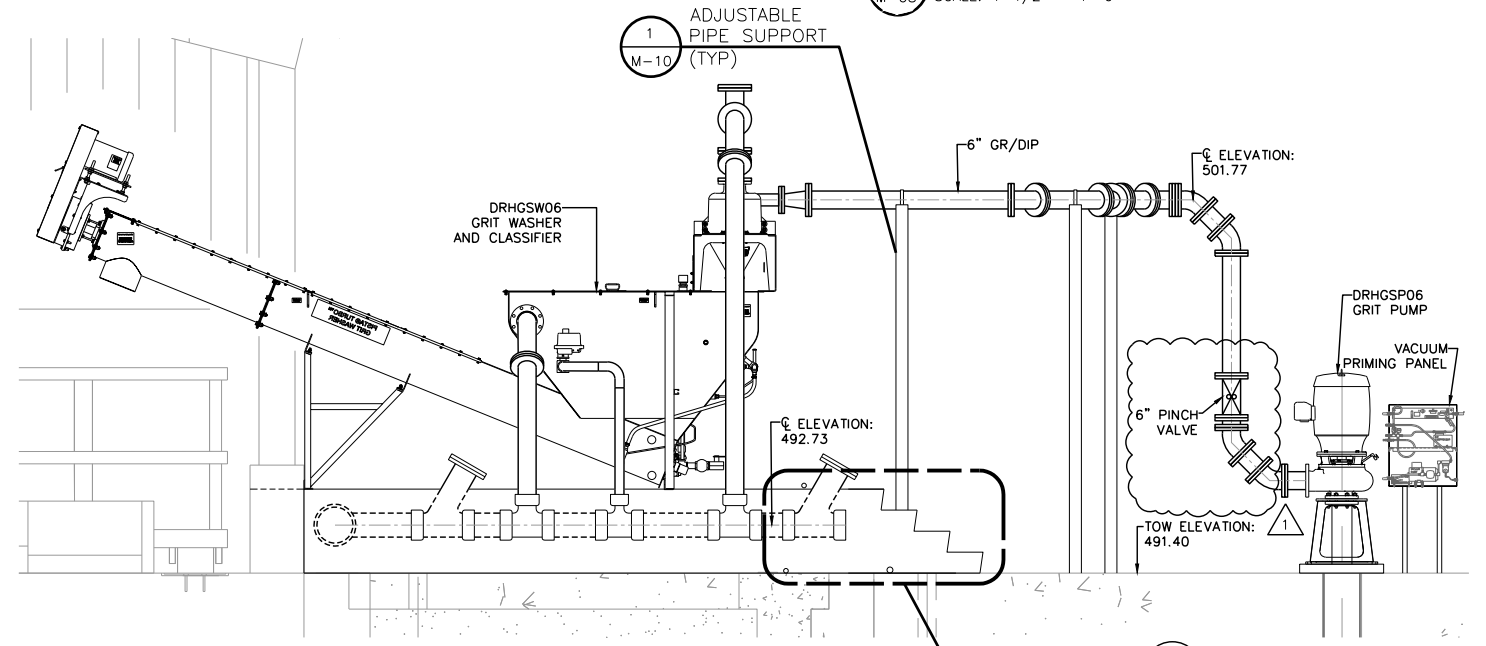


2 CONCRETE STEP
M-08 SCALE: 1-1/2" = 1'-0"



3 ENLARGED SECTION
M-05 SCALE: 1/2" = 1'-0"

- NOTES:**
- GRIT CHAMBER 6 WILL NOT REQUIRE FLUIDIZING VANE.
 - REMOVE ALL GROUT IN GRIT CHAMBERS AND REPLACE.
 - CONTRACTOR WILL MAINTAIN APPROPRIATE EFFLUENT WEIR GATE ELEVATION DURING CONSTRUCTION. EFFLUENT WEIR GATES MAY NEED TO BE ADJUSTED MULTIPLE TIME DURING THE COURSE OF CONSTRUCTION.
 - EXISTING WATER SCOUR LINE TO GRIT CHAMBER 6 WAS PERMANENTLY DAMAGED. DO NOT EXTEND NPW OR PROVIDE SOLENOID VALVE ASSEMBLY.
 - SEE STRUCTURAL DRAWING S-08 AND S-09 FOR CONCRETE EQUIPMENT PAD AND STEP DIMENSIONS.
 - REMOVE AND REPLACE DRIVE ASSEMBLY, DRIVE TUBE, PROPELLER, AND FLUIDIZING VANE.



1 ENLARGED SECTION
M-08 SCALE: 3/8" = 1'-0"

2 CONCRETE STEP
ENLARGED SECTION M-08

5/21/2021 L:\SHARE1\CADD\SAWS\045-SMC\WRC_GRI\DRAWINGS\SHEETS\M8.DWG

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SAN ANTONIO WATER SYSTEM
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ENHANCEMENTS PHASE 2
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San Antonio, Texas

GRIT REMOVAL FACILITY SECTIONS
(1 OF 2)

M-08

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