



Steven M. Clouse WRC Electrical System Improvements Phase 2B
Solicitation Number: CO-00547
Job No.: 21-6510

ADDENDUM 2
August 8, 2022

To Respondent of Record:

This addendum, applicable to work referenced above, is an amendment to the proposal request, 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 Proposal.

RESPONSES TO QUESTIONS

1. Robbins Lightning, Inc. has received plans and specifications for the above referenced project; we request to submit a quotation for the required lightning protection materials.

Response: No additional manufacturers will be named during bidding. Products submitted by Contractor for the project must fully comply with the contract documents. Materials for potential use on future projects may be submitted for consideration using the product submittal application process under Construction & Materials Specs in SAWS website.

2. Is a site visit mandatory for our proposal to be considered?

Response: Site visit is not mandatory.

3. We are still interested in bidding the project; however are concerned regarding the bid date. What is the possibility that the bid date will get extended 2 weeks or so?

Response: The proposal opening date and time is being adjusted through this addendum. Please refer to "Changes to the Specifications", item 1.

4. On the Architecture drawings #20NT02 – #20NT04 you show some New Operator Workstations. I don't see a specification for them. Please provide one

Response: Operator workstations are covered in Section 17510, 2.01.

5. Please note units are quoted based on mechanical schedule which shows (2) units to have 500 CFM total and (2) units to have 300 CFM total; in contradiction to Section 15865, Part 2 – Products /B. General 2.0 showing units shall output 750 CFM with 50% being make up air.

Response: The Mechanical schedule sheet is correct. The airflow shall be 300 cfm and 500 cfm. Refer to "Changes to the Specifications", item 5.

6. Please clarify specifications for control Panel on Section 15865 / Part 2 – Products / G. Differential pressure Switch with Indicating & H. Controls. The control panel and Photohelic gage is not very clear to what they are using them for.

Response: The purpose of the pressure switch is shown in "H. Controls: paragraph 3". The purpose is to measure airflow thru the filters.

7. Please confirm the drawings are half sized. Please furnish the full sized prints so the scales shown will be correct.

Response: The original drawings are 34"x22" and all scales are related to that size. The published .PDF files are plotted to 11"x17" and all scales need to be adjusted accordingly. No additional drawings will be provided.

CHANGES TO THE SPECIFICATIONS

1. REQUEST FOR COMPETITIVE SEALED PROPOSALS

- a. Page IV-1: Remove the first sentence following the Webex meeting link that reads "A second **non-mandatory pre-proposal site visit** will be held by appointment only at **9:00 AM (CDT)** on **August 2, 2022 and August 4, 2022** at the San Antonio Water System's Steven M. Clouse Water Recycling Center, 3495 Valley Rd. San Antonio, TX 78221," and replace with: "A **non-mandatory pre-proposal site visit** will be held by appointment only at **9:00 AM (CDT)** on **August 2, 2022, August 4, 2022, and August 16, 2022** at the San Antonio Water System's Steven M. Clouse Water Recycling Center, 3495 Valley Rd. San Antonio, TX 78221"

- b. Pages IV-1 – IV-2: Remove and replace the following paragraphs

"For questions regarding this solicitation, technical questions or additional information, please contact **Roxanne Lockhart, Contract Administrator**, in writing via email to: **roxanne.lockhart@saws.org** or by fax to 210-233-4438 until **2:00 PM (CDT)** on **August 19, 2022**. Answers to the questions will be posted to the web site by **2:00 PM (CDT)** on **August 30, 2022** as a separate document or included as part of an addendum. Please be advised that firms responding to this RFCSP (Respondents) are prohibited from communicating with any other SAWS staff, the Consultant, the Developer, or COSA officials regarding this RFCSP up until the contract is awarded as outlined in the Instructions to Respondents.

Due to the COVID-19 emergency and to protect the health of the public, SAWS is implementing new procedures for the submission of proposals. Proposals will be received electronically only, until 2:00 PM (CDT), September 7, 2022. Electronic proposals will be received via the secure SAWS FTP site. See the Electronic Proposal Opening Instructions attachment for additional information regarding an electronic proposal submittal. Electronic proposals shall be accompanied by a bid bond in an amount not less than five percent of the total proposal price. (Or, if providing SAWS with a cashier's check or certified check in an amount not less than five percent of the total proposal price, SAWS will request this within 24 hours from the Respondent who did not submit a bid bond). Proposals will then be publicly opened and read aloud by Contract Administration via WebEx."

- c. The remaining sections shall remain the same.

2. REQUEST FOR COMPETITIVE SEALED PROPOSALS, Attachment A: Under the first bullet, remove the sentence that reads "Interested firms/contractors must RSVP to Roxanne Lockhart Contract Administrator via email at Roxanne.Lockhart@saws.org to attend the site visit no later than **July 28, 2022 at 4:00 PM (CDT)**" and replace with "Interested firms/contractors must RSVP to Roxanne Lockhart Contract Administrator via email at Roxanne.Lockhart@saws.org to attend the second site visit no later than **August 12, 2022 at 9:00 AM (CDT)**"

3. Section IV-3 ELECTRONIC PROPOSAL OPENING INSTRUCTIONS - Remove and replace the Instructions in its entirety and replace with the revised version attached to this Addendum.
4. General Decision Number: TX20220231, Building, dated 06/17/2022: Remove and replace this section in its entirety and replace with the revised version, dated 07/29/2022, attached to this Addendum.
5. Section 15865, 2.01-B.2: Delete this paragraph and replace with: "Unit shall output 500 cfm, with up to 50% being make up air."
6. All other sections remain the same.

CHANGES TO THE PLANS

1. Remove the following sheets in their entirety and replace with the attached sheets:
 - a. 00E33
 - b. 00E35
 - c. 00E36
 - d. 00E37

CLARIFICATIONS

1. Extended proposal opening date to September 7, 2022.
2. Additional opportunity was added for potential respondents to attend a site visit.
3. Updated Wage Decision
4. Clarified fiber network connections.

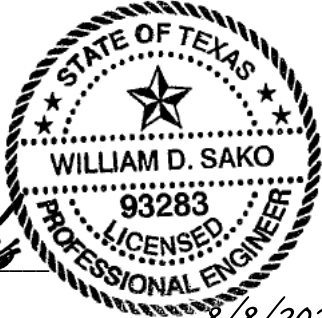
END OF ADDENDUM

This Addendum, including these three (3) pages, is fifteen (15) pages with attachments in its entirety.

Attachments:

Drawings: 4 pages, 11x17 (HALF-SIZE)
Specifications: 2 sections, total 8 pages


William D. Sako
Gupta & Associates, Inc.
TBPE # F-2593


8/8/2021



Steven M. Clouse WRC Electrical System Improvements –
Phase 2B
Solicitation Number: CO-00547

ELECTRONIC PROPOSAL OPENING INSTRUCTIONS
September 7, 2022, at 2:00PM (CDT)

FTP PROPOSAL UPLOAD

In order to receive electronic proposals for this project, SAWS will utilize a SAWS secured File Transfer Protocol (FTP) site. Only Respondents submitting as Prime Contractors will need to submit their request prior to **September 6, 2022, by 2:00 pm (CDT)** to receive access to the FTP site via email to **Roxanne.Lockhart@saws.org**. Respondent's email shall provide the legal name of the Respondent's company and the intended recipient's email address and phone number. No requests for FTP site access will be accepted after **September 6, 2022, by 2:00 pm (CDT)**. Once a Respondent is approved for access, an email with a hyperlink to the FTP site and a unique password for the Respondent will be provided to the Respondent's email recipient.

Once access is received, Respondents may upload the required documents per the Respondent's Proposal Checklist any time before **September 7, 2022 by 2:00 PM (CDT)**. **Please ensure to allow sufficient time should Respondent's experience technical difficulties in uploading the required documents. No changes to the proposal price can be made once the Proposal has been submitted.**

Respondents shall comply with the following:

- 1) Limit files to three (3) pdf files that includes all items as indicated on the revised Respondent's Proposal Checklist. ONLY 3 SUBMITTALS PER RESPONDENT WILL BE ACCEPTED PER REQUEST. Do not upload zip files.
- 2) Ensure that the itemized General Price Proposal Items is the first page(s) of File 1.
- 3) Respondents may protect the documents from editing by adding a password. **However, the document must be accessible for viewing by SAWS without requiring a password.**
- 4) Files shall be titled as required on the Respondent's Proposal Checklist.
- 5) DO NOT SHARE ACCESS AND/OR PASSWORD WITH OTHER PARTIES OUTSIDE YOUR COMPANY.
- 6) ENSURE THE PROPOSAL IS RECEIVED NO LATER THAN THE DUE DATE AND TIME. PROPOSALS RECEIVED AFTER THE PROPOSAL OPENING DEADLINE WILL NOT BE ACCEPTED.

If the Respondent is in need of help, they may contact the SAWS Contract Administrator, **Roxanne Lockhart**, at **210-233-3095** or view troubleshooting tips at <http://www.Serv-U.com/sharefiles>

WEBEX PROPOSAL OPENING MEETING

The WebEx meeting details are below if you would like to view the public opening of the proposals.

When it's time, start or join the WebEx meeting from [here](#).

Access Information

Meeting Number: 2487 487 1927

Meeting Password: sP52DJ6nMER

Audio Connection: +1-469-210-7159 US Toll (Dallas)
+1-408-418-9388 US Toll

If you have any questions or concerns, please feel free to contact me.

Thank you,

Roxanne Lockhart

Contract Administrator

2800 U.S. Highway 281 North, Ste. 171 | San Antonio, TX 78212

Office | 210-233-3095

Email | roxanne.lockhart@saws.org

"General Decision Number: TX20220231 07/29/2022

Superseded General Decision Number: TX20210231

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: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 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 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	02/18/2022

2	02/25/2022
3	04/15/2022
4	06/17/2022
5	07/08/2022
6	07/29/2022

* ASBE0087-014 06/06/2022

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)....	\$ 28.10	8.29

BOIL0074-003 01/01/2021

	Rates	Fringes
BOILERMAKER.....	\$ 29.47	24.10

ELEC0060-003 06/01/2022

	Rates	Fringes
ELECTRICIAN (Communication Technician Only).....	\$ 31.95	15%+6.41

ELEC0060-004 06/01/2022

	Rates	Fringes
ELECTRICIAN (Excludes Low Voltage Wiring).....	\$ 31.95	15%+6.41

ELEV0081-001 01/01/2022

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 44.80	36.885+a+b

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 06/01/2022

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 25.25	7.28

IRON0084-011 06/01/2021

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 26.01	7.56

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 04/01/2022

	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation.....	\$ 27.89	16.25
HVAC Duct Installation Only.	\$ 27.89	16.25

* 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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** Workers in this classification may be entitled to a higher

minimum wage under Executive Order 14026 (\$15.00) or 13658 (\$11.25). Please see the Note at the top of the wage determination for more information.

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 <https://www.dol.gov/agencies/whd/government-contracts>.

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 National Office because National Office has 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:

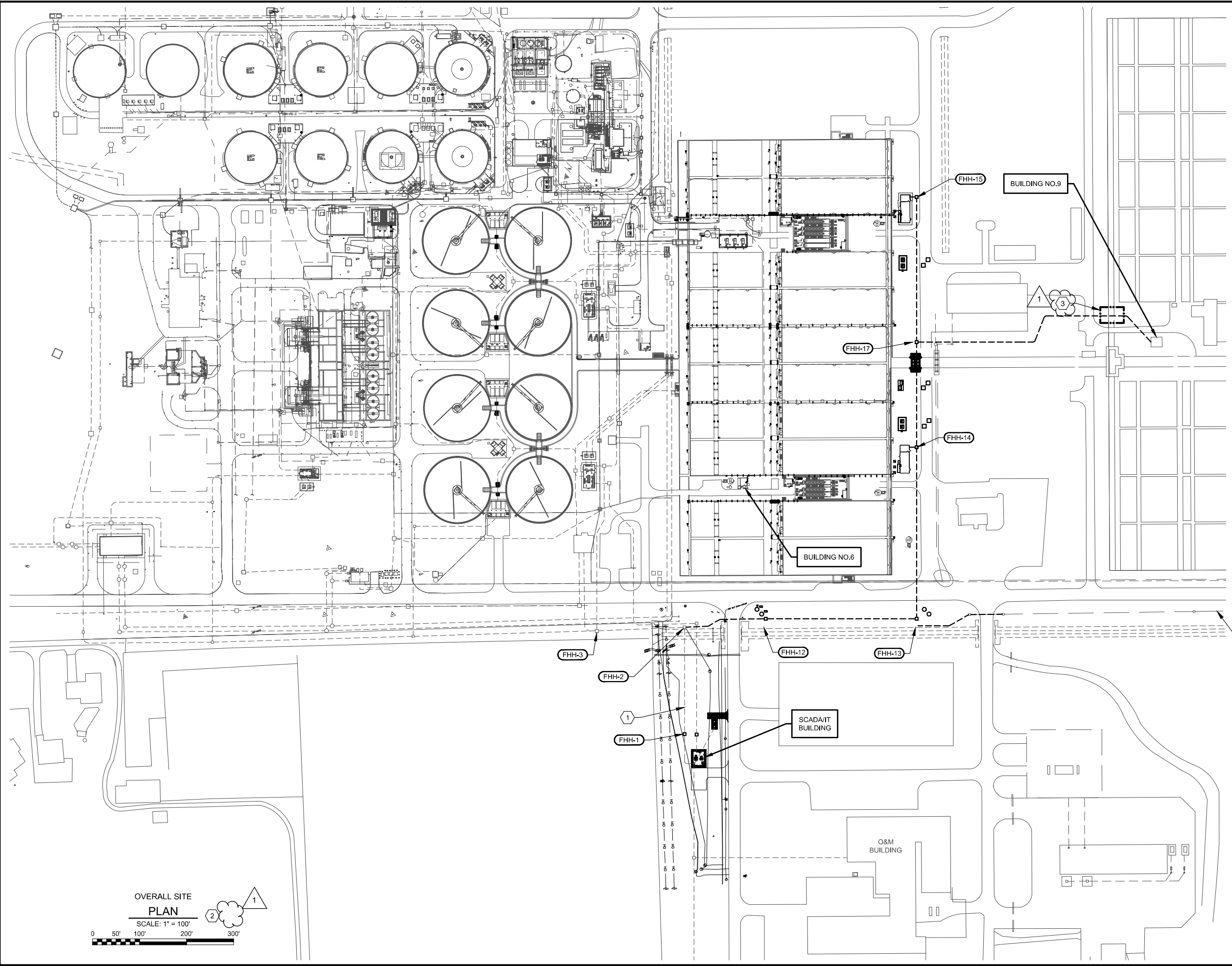
Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

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

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END OF GENERAL DECISIO"

7/6/2022 12:15 PM Z:\1951_SAWS_Dos Rios WRC Electrical System Improvements - Phase II\5 Drawings\Dos Rios Phase II\Electrical\Working\Phase B\1951_00E33.dwg Eric McCleary

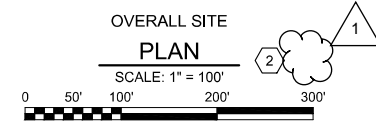


GENERAL NOTES:

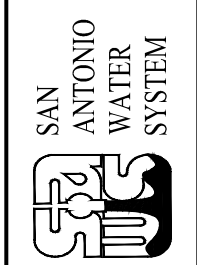
1. FIELD VERIFY AND COORDINATE EXACT LOCATION OF DUCTBANKS WITH EXISTING UNDERGROUND UTILITIES. ADJUST AS REQUIRED FOR ROUTING OF THE UNDERGROUND DUCTBANK.
2. NOT ALL UTILITIES AND UNDERGROUND DUCTBANK ARE SHOWN ON THIS DRAWING.
3. THE CONTRACTOR SHALL UTILIZE SUE SERVICE TO DETERMINE UNDER GROUND UTILITIES.

NOTES:

- ① NEW FIBER IN EXISTING DUCTBANK.
- ② REFER TO SHEET 00E35 FOR RISER DIAGRAM.
- ③ REFER TO SHEET 00E37 FOR DETAILS.



GAI
Gupta & Associates, Inc.
CONSULTING ENGINEERING
Registration No. F-2593
13777 N. Metro Road
Dallas, Texas 75244
Tel: 972-485-7200
Fax: 972-485-7201
email: gais@gaiconsulting.com



REV. NO.	DATE	DRWN	ER	ADDENDUM NO.2	REMARKS
1	08/08/22				

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

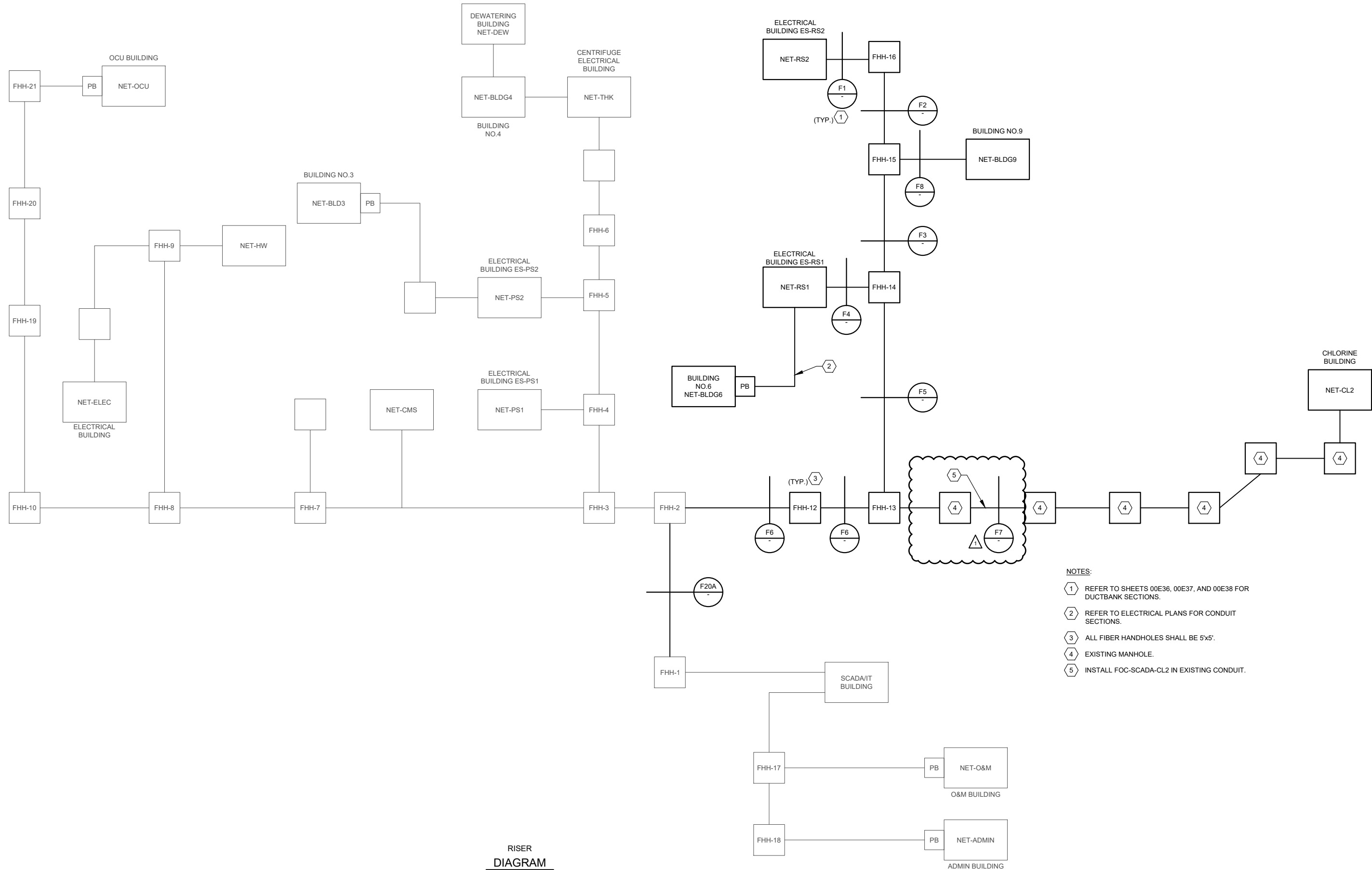
SAN ANTONIO WATER SYSTEM
STEVEN M. CLOUSE WRC
ELECTRICAL SYSTEM IMPROVEMENTS PHASE 2B
ELECTRICAL

OVERALL FIBER ROUTING PLAN

DESIGNED BY: W.SAKO
DRAWN BY: E.RANGEL
SHEET CHKD BY: V.K. GUPTA
APPROVED BY: W.SAKO
DATE: JULY 2022
SAWS JOB NO.: 21-6510
FILE NAME: 1951_00E33

SHEET NO.
00E33
54 OF 227

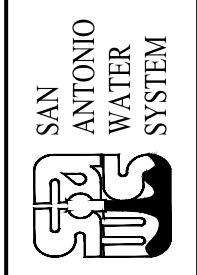
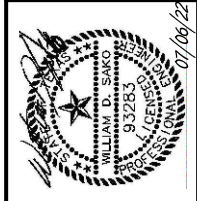
8/4/2022 11:43 AM Z:\1951_SAWS_Dos Rios WRC Electrical System Improvements - Phase II\5 Drawings\Dos Rios Phase II\Electrical\Working\Phase B\1951_00E35.dwg Emmanuel Rangel



**RISER
DIAGRAM**

- NOTES:**
- ① REFER TO SHEETS 00E36, 00E37, AND 00E38 FOR DUCTBANK SECTIONS.
 - ② REFER TO ELECTRICAL PLANS FOR CONDUIT SECTIONS.
 - ③ ALL FIBER HANDHOLES SHALL BE 5'x5'.
 - ④ EXISTING MANHOLE.
 - ⑤ INSTALL FOC-SCADA-CL2 IN EXISTING CONDUIT.

GAI
Gupta & Associates, Inc.
CONSULTING ENGINEERING
Registration No. F-2593
Dallas, Texas 75244
13771 N. Metro Road
Fax: 972-485-1725
email: gai@gaiairng.com



REV. NO.	DATE	DRWN	ER	ADDITION NO.2	REMARKS
1	08/10/22				

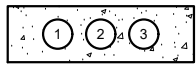
ONE INCH AT FULL SIZE IF NOT
ONE INCH SCALE ACCORDINGLY

SAN ANTONIO WATER SYSTEM
STEVEN M. CLOUSE WRC
ELECTRICAL SYSTEM IMPROVEMENTS PHASE 2B
ELECTRICAL

**FIBER OPTIC
OVERALL RISER DIAGRAM**

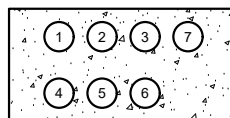
DESIGNED BY: V.K. GUPTA
DRAWN BY: E. RANGEL
SHEET CHKD BY: V.K. GUPTA
APPROVED BY: W. SAKO
DATE: JULY 2022
SAWS JOB NO.: 21-6510
FILE NAME: 1951_00E35

SHEET NO.
00E35
55 OF 227



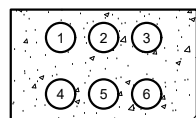
DUCTBANK
SECTION F1
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-RS2 FOC-RS2-BLD9	2"C	TO SCADA BUILDING & BUILDING 9
2	SPARE	2"C	FHH15 TO NETWORK ENCLOSURE
3	SPARE	2"C	FHH15 TO NETWORK ENCLOSURE



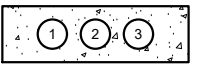
DUCTBANK
SECTION F2
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-RS2	2"C	TO SCADA BUILDING & BUILDING 9
2	FUTURE SPARE	2"C	FUTURE DEWATERING BUILDING
3	FUTURE SPARE	2"C	COMPRESSOR BUILDING
4-6	SPARE	2"C	PULLSTRING
7	FOC-RS2-BLD9	2"C	OWS IN BUILDING 9



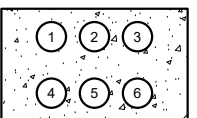
DUCTBANK
SECTION F3
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-RS2	2"C	TO SCADA BUILDING
2	FUTURE SPARE	2"C	FUTURE DEWATERING BUILDING
3	FUTURE SPARE	2"C	COMPRESSOR BUILDING
4	SPARE	2"C	PULLSTRING
6	SPARE	2"C	PULLSTRING
8	SPARE	2"C	PULLSTRING



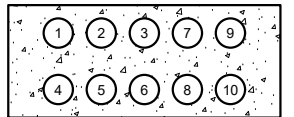
DUCTBANK
SECTION F4
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-RS1	2"C	TO SCADA BUILDING
2	SPARE	2"C	FHH14 TO NETWORK ENCLOSURE
3	SPARE	2"C	FHH14 TO NETWORK ENCLOSURE



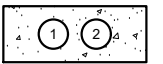
DUCTBANK
SECTION F5
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-RS2	2"C	TO SCADA BUILDING
2	FUTURE SPARE	2"C	DEWATERING BUILDING
3	FUTURE SPARE	2"C	COMPRESSOR BUILDING
4	FOC-SCADA-RS1	2"C	TO SCADA BUILDING
5	SPARE	2"C	-
6	SPARE	2"C	-



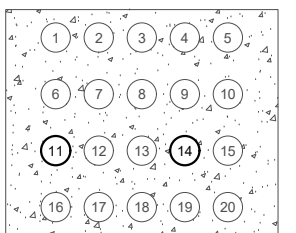
DUCTBANK
SECTION F6
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-RS2	2"C	TO SCADA BUILDING
2	FUTURE SPARE	2"C	DEWATERING BUILDING
3	FUTURE SPARE	2"C	COMPRESSOR BUILDING
4	FOC-SCADA-RS1	2"C	TO SCADA BUILDING
5	FUTURE SPARE	2"C	TO CHLORINE BUILDING
6	FUTURE SPARE	2"C	SECOND STAGE AERATION BASIN
7	FUTURE SPARE	2"C	SECOND STAGE AERATION BASIN
8	FUTURE SPARE	2"C	FILTERS
9	SPARE	2"C	SPARE
10	SPARE	2"C	SPARE



DUCTBANK
SECTION F8
NOT TO SCALE

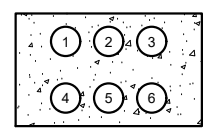
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-RS2-BLD9	2"C	OWS IN BLD9
2	SPARE	2"C	FHH14 TO NETWORK ENCLOSURE



DUCTBANK
SECTION F20A
NOT TO SCALE

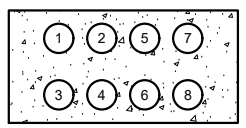
CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-PS1	2"C	TO SCADA BUILDING
2	FOC-SCADA-PS2	2"C	TO SCADA BUILDING
3	FOC-SCADA-THK	2"C	TO SCADA BUILDING
4	FOC-SCADA-CMB	2"C	TO SCADA BUILDING
5	FOC-SCADA-HW	2"C	TO SCADA BUILDING
6	FOC-SCADA-OCM	2"C	TO SCADA BUILDING
7	SPARE FUTURE	2"C	DIGESTER COMPLEX
8	SPARE	2"C	PULLSTRING
9	SPARE	2"C	PULLSTRING
10	SPARE	2"C	PULLSTRING
11	FOC-SCADA-RS2	2"C	TO SCADA BUILDING
12	FUTURE SPARE	2"C	DEWATERING BUILDING
13	FUTURE SPARE	2"C	COMPRESSOR BUILDING
14	FOC-SCADA-RS1	2"C	TO SCADA BUILDING
15	FUTURE SPARE	2"C	TO CHLORINE BUILDING
16	FUTURE SPARE	2"C	SECOND STAGE AERATION BASIN
17	FUTURE SPARE	2"C	SECOND STAGE AERATION BASIN
18	FUTURE SPARE	2"C	FILTERS
19	SPARE	2"C	SPARE
20	SPARE	2"C	SPARE

- NOTES:
- 1 REFER TO SHEET 00E33 FOR SITE PLAN.
 - 2 REFER TO SHEET 00E35 FOR FIBER RISER DIAGRAM AND CONDUIT SECTION NUMBERS.



DUCTBANK
SECTION F7
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-CHL2	2"C	TO SCADA BUILDING
2	FUTURE SPARE	2"C	SECOND STAGE AERATION BASIN
3	FUTURE SPARE	2"C	SECOND STAGE AERATION BASIN
4	FUTURE SPARE	2"C	FILTERS
5	SPARE	2"C	-
6	SPARE	2"C	-



DUCTBANK
SECTION F21
NOT TO SCALE

CONDUIT NO.	CONDUIT TAG	CONDUIT SIZE	DESCRIPTION
1	FOC-SCADA-HW, FOC-SCADA-OCU	4"C	FIBER FROM FIRST HEADWORK OCU BUILDING
2	DEWATERING BUILDING COMPRESSOR BUILDING DIGESTER BUILDING	4"C	CONDUIT FOR FUTURE FIBER
3	SECOND STAGE AERATION BASIN, SECOND STAGE AERATION BASIN FILTER BUILDING	4"C	CONDUIT FOR FUTURE FIBER
4	FOC-SCADA-PS1, FOC-SCADA-PS2, FOC-SCADA-THK, FOC-SCADA-CMB	4"C	FIBER FROM PRIMARY CLARIFIER 122 -THICKENER -CMB BUILDING
5	FOC-SCADA-PS1, FOC-SCADA-PS2, FOC-SCADA-CHL2	4"C	FIBER FROM FIRST STAGE AERATION AND CHLORE BUILDING
6	SPARE	4"C	PULLSTRING
7	SPARE	4"C	PULLSTRING
8	SPARE	4"C	PULLSTRING

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email: gait@gaia.net



SAN ANTONIO WATER SYSTEM

NO.	DATE	REV.	BY	DESCRIPTION
1	08/10/22	ER	ADDEDDIM NO.2	REMARKS

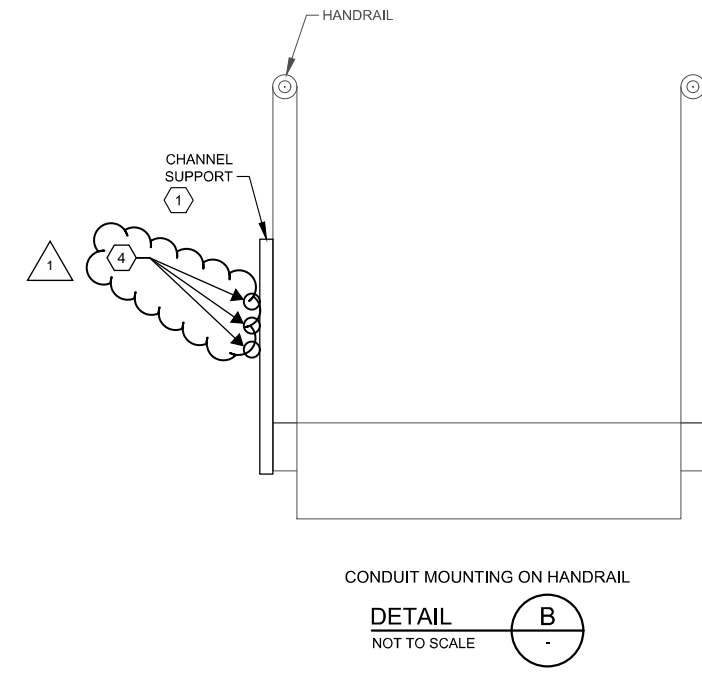
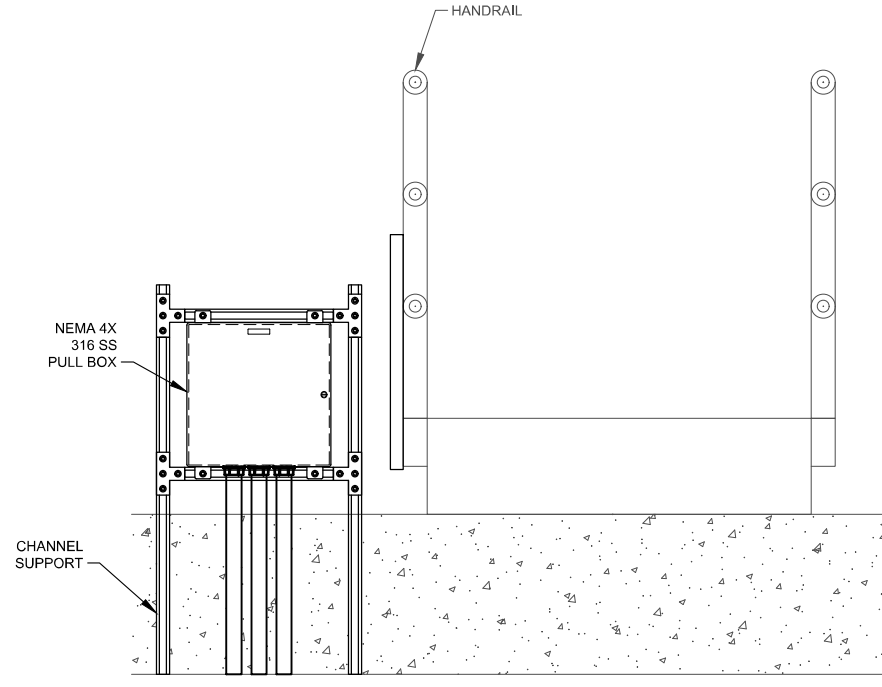
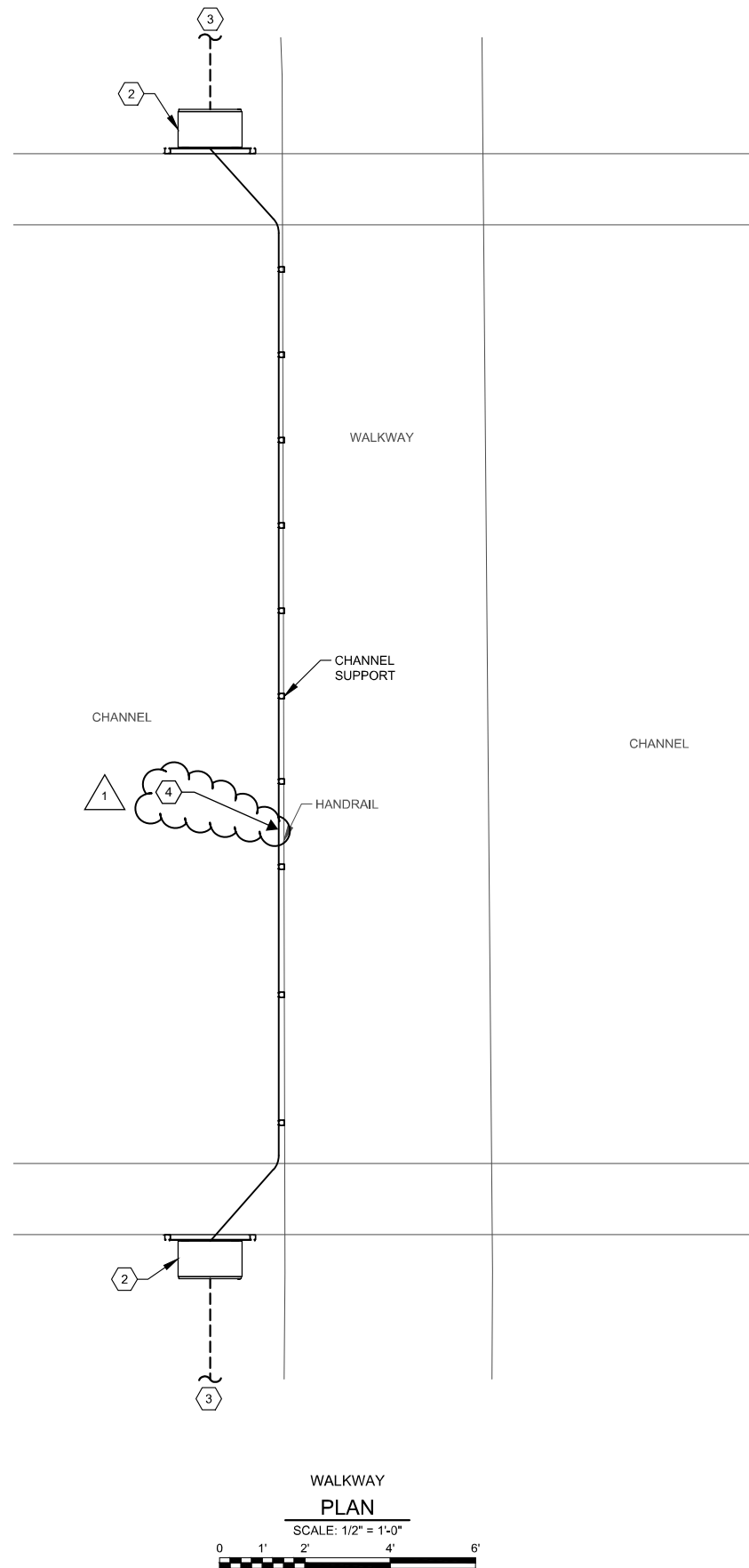
SAN ANTONIO WATER SYSTEM
STEVEN M. CLOUSE WRC
ELECTRICAL SYSTEM IMPROVEMENTS PHASE 2B

DESIGNED BY: V.K.GUPTA
DRAWN BY: S.HERNANDEZ
SHEET CHKD BY: V.K. GUPTA
APPROVED BY: W.SAKO
DATE: JULY 2022
SAWS JOB NO.: 21-6510
FILE NAME: 1951_00E36

SHEET NO.
00E36
56 OF 227

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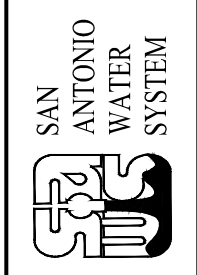
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- GENERAL NOTES:**
1. THE CONDUIT SHALL BE FIELD ROUTED OVER THE WATER CHANNEL.
 2. ALL WORK SHALL BE COORDINATED WITH THE OWNER.

- NOTES:**
- ① SUPPORT CHANNEL INDEPENDENT OF THE HANDRAIL.
 - ② FIBER PULLBOX.
 - ③ REFER TO SHEET 00E33 FOR CONTINUATION.
 - ④ PVC-COATED ALUMINUM CONDUIT

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08/08/22	ER	ADDENDUM NO.2	REMARKS
A	DATE	DRWN	REMARKS
REV. NO.	DATE	DRWN	REMARKS

ONE INCH AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY

SAN ANTONIO WATER SYSTEM
STEVEN M. CLOUSE WRC
ELECTRICAL SYSTEM IMPROVEMENTS PHASE 2B
**FIBER DUCTBANK
ROUTING DETAILS**

DESIGNED BY: V.K.GUPTA
DRAWN BY: E.RANGEL
SHEET CHKD BY: G.LLUKE
APPROVED BY: W.SAKO
DATE: JULY 2022
SAWS JOB NO.: 21-6510
FILE NAME: 1951_00E37

SHEET NO.
00E37
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