

MUNICIPALITY OF ANCHORAGE PURCHASING DEPARTMENT

PHONE (907) 343-4590 P.O. Box 196650 ANCHORAGE, ALASKA 99519-6650

DATE OF INVITATION October 17, 2022	TIME AND DATE OF OPENING 2:00 PM Local Time, November 29, 2022
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ADDENDUM No. 1

TO INVITATION TO BID No. 2022C044

DATE ISSUED: November 16, 2022

TITLE: ERWWTF EQ Repairs & Structural Retrofits.

The following changes and/or additions are hereby made to subject Invitation to Bid:

1. **CHANGE:** the Time and Date of BID OPENING to **2:00 PM Local Time, November 29, 2022.**
2. **INCORPORATE:** the attached changes, consisting of 10 pages, identified as Addendum No. 1, dated November 16, 2022.
3. **REPLACE:** Bid Proposal pages BP-3 and BP-4 with BP-3R and BP-4R.

All other terms, conditions and specifications remain unchanged.

An electronic (.pdf) copy of the Invitation to Bid is available at Municipality of Anchorage, Purchasing Office website; (<http://www.muni.org/Departments/purchasing/Pages/bidding.aspx>) Should you choose to obtain a copy of the Invitation to Bid from the website; it is your responsibility to periodically check the website for addends.

THIS ADDENDUM MUST BE ACKNOWLEDGED IN SPACE PROVIDED ON BID PROPOSAL SHEET OR SIGNED AND RETURNED TO PURCHASING PRIOR TO TIME SET FOR BID OPENING IN ACCORDANCE WITH ANCHORAGE MUNICIPAL CODE 7.20.020C.

Municipality of Anchorage reserves the right to accept or reject bids. Prices quoted must be F.O.B. Destination. Municipality is exempt from Federal Excise Tax. Bids shall be submitted to the Purchasing Office prior to time set for opening. Any bids not received by the Purchasing Office prior to that time will not be considered and will be returned.

PLEASE ACKNOWLEDGE AND RETURN THIS ADDENDUM PRIOR TO THE DATE AND TIME SHOWN ABOVE OR YOUR BID MAY BE REJECTED.

VENDOR NAME _____

MUNICIPALITY OF ANCHORAGE

SIGNATURE _____

DATE OF BID _____

Chris Hunter

 Chris Hunter
 Deputy Purchasing Director

RFP No. 2022C044
TITLE: ERWWTF EQ Repairs & Structural Retrofits

Addendum No. 1
November 16, 2022

TO: PLAN HOLDERS

The Bid Documents for the referenced project are clarified and amended as follows:

SPECIFICATION MODIFICATIONS

Item No. 1 – REVISE THE TEXT OF Section 01 10 00, Paragraph 1.4.B.1.b.3. to read as follows:

Repair control and expansion joints in aeration basins.

Item No. 2 - DELETE Paragraph 1.4.B.1.b.5 FROM Section 01 10.00

Item No. 3 - ADD THE FOLLOWING as Paragraph 1.4.B.2.c. TO Section 01 10 00

Remove damaged W1 pipe insulation on 2-inch W1 piping and replace with insulation per notes on project drawing G.5.

Item No. 4 - DELETE Paragraph 1.6.B.1.c. FROM Section 01 14 00

Item No. 5 - REVISE THE TEXT OF Section 01 14 00, Paragraph 1.4.A.1.c. to read as follows:

Access to Aeration Basins for Joint Repair:

- 1) Each Aeration Basin has joint repairs as part of this Project's scope of work.
- 2) Control / Expansion joint repair is the only reason the Contractor will be allowed access to a drained Aeration Basin.
- 3) Any overhead structural repair work to be completed above the Aeration Basins for this Project is to be accessed either while the Aeration Basins remain full of process liquids and in normal service for wastewater treatment operations, or during the brief allocated duration of time allowed for each basin's joint repair.
- 4) The Owner will be responsible for draining an Aeration Basin. The Contractor will be responsible for hosing down and clearing areas of the basin needed to facilitate access to the Aeration Basin joint to be repaired by the Contractor.
- 5) Once drained and the basin joint work area is cleaned of wastewater settled solids, an Aeration Basin will be available for up to a maximum of 10 calendar days per basin. This time should be sufficient for curing the specified joint sealant to be used for the Project.
- 6) The Contractor is to protect the grid of aeration piping and diffusers installed in each Aeration Basin while conducting activities within a drained basin.
- 7) A minimum of 60 calendar days elapsed time is required to occur between return of the first drained Aeration Basin to service and initiating draining the second Aeration Basin.

Item No. 6 – REPLACE the title of Section 01 14 00, Paragraph 1.6.C.1. to read as follows:

Schedule A Aeration Basin Joint Repair

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November 16, 2022

Item No. 7 – REPLACE the title of Section 01 14 00, Paragraph 1.6.C.1.a.4 to read as follows:

Repair Control and Expansion Joints

Item No. 8 – REPLACE the text of Section 01 14 00, Paragraph 1.6.C.1.b.2 to read as follows:

Repeat the Joint Repair steps executed for Aeration Basin #2.

Item No. 9 – REPLACE the first sentence of Section 01 14 00, paragraph 1.6.C.3.a.1) to read as follows:

Erect suspended scaffolding over tops of Aeration Basin as needed to access the work scope identified in the Project drawings.

Item No. 10 - REPLACE the text of Section 01 14 00, Paragraph 1.6.D.1.a. to read as follows:

Replace damaged and missing insulation and wrap on 2-inch W1 pipeline per Drawing G.5.

Item No. 11 – REPLACE the first sentence of Section 01 14 00, paragraph 1.6.D.2.a to read as follows:

Grids J through S Purlin Blocking, Braced Frame Gusset Plate Retrofits, Diagonal Roof Rod Bracing, and Collector Beam Retrofits

Item No. 12 - EDIT Paragraph 1.7 E. of Section 01 20 00 by ADDING Items 2 and 4 to read as follows:

- (a) **Schedule A Earthquake Repairs** per Specification Division 01, Section 01 10 00
SUMMARY OF WORK, paragraph 1.4.B.

Item 2 – Schedule A	Paid on a UNIT PRICE basis: The unit price for each shall include full compensation for: Removal and Replacement of sections of damaged 6” W3 piping insulation and wrap (20 locations, each ±2 linear feet). Aeration Building and Building 2 per Drawing G.5.
Item 4 – Schedule A	Paid on a UNIT PRICE basis: The unit price for each shall include full compensation for: Removal and Replacement of damaged 2” W1 piping insulation and wrap (1 location, ±4 linear feet). Building 2 per Drawing G.5.

Item No. 13 - EDIT Paragraph 1.7 F. of Section 01 20 00 by ADDING Item 3 to read as follows:

- (b) **Schedule B Structural Retrofits** per Specification Division 01, Section 01 10 00
SUMMARY OF WORK, paragraph 1.4.C.

Item 3 – Schedule B	Paid on a UNIT PRICE basis: The price for each shall include full compensation for: Retrofit of structural connection of collector beams to braced framing per Drawing Details S2.1A/8 and S2.1B/8.
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TITLE: ERWWTF EQ Repairs & Structural Retrofits

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November 16, 2022

Item No. 14 – ADD the following as Paragraph 3.4.C. to Section 07 81 00

Remove existing SFRM covering all collector beam welds being inspected prior to inspection. Upon completion of inspection and any associated structural welding and retrofit work, apply new SFRM to structural steel formerly covered with SFRM.

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Addendum No. 1
November 16, 2022

Item No. 16 – ADD the following pages to SECTION XVII:

SECTION XVII

ANNOTATED SITE PHOTOGRAPHS



Drywall crack in Building 1 Admin Area Hallway



Drywall crack at doorway frame near Control Room in Building 1 Admin Area



Drywall crack at doorway in Building 1 Break Room



Drywall crack in Building 1 Shop Area



Drywall crack in Building 1 near Admin Area Vestibule Entry



Drywall crack at window in Lab Area

DRAWING MODIFICATIONS:

Item No. 17 - EDIT Sheet S0.2 – ERWWTF SCHED A EARTHQUAKE REPAIRS Structural General Notes Continued, Legend and Abbreviations as follows:

1. Remove the note: “Pipe Insulation Repair: Reference Specifications for repair of pipe insulation where required.” from this sheet.

Item No. 18 - REPLACE Sheet S1.1 – ERWWTF SCHED A EARTHQUAKE REPAIRS Structural Building 1 Roof Framing Plan with S1.1R provided in addendum.

Item No. 19 - REPLACE Sheet S1.1B – ERWWTF SCHED A EARTHQUAKE REPAIRS Structural Aeration Building Aeration Basin Plan with S1.1BR provided in addendum.

Item No. 20 - REPLACE Sheet S2.1B – ERWWTF SCHED A EARTHQUAKE REPAIRS Structural Aeration Building Aeration Basin Details with S2.1BR provided in addendum.

Item No. 21 – REPLACE Sheet S1.1 – ERWWTF SCHED B STRUCTURAL RETROFITS Structural Building 1 Roof Framing Plan with S1.1R provided in addendum.

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TITLE: ERWWTF EQ Repairs & Structural Retrofits

Addendum No. 1
November 15, 2022

Item No. 22 – REPLACE Sheet S1.1A – ERWWTF SCHED B STRUCTURAL RETROFITS Structural Building 2 Roof Framing Plan with S1.1AR provided in this addendum.

Item No. 23 – REPLACE Sheet S1.1B – ERWWTF SCHED B STRUCTURAL RETROFITS Structural Aeration Building Roof Framing Plan with S1.1BR provided in this addendum.

Item No. 24 - REPLACE Sheet S2.1 – ERWWTF SCHED B STRUCTURAL RETROFITS Structural Building 1 Details with S2.1R provided this addendum.

Item No. 25 – REPLACE Sheet S2.1A – ERWWTF SCHED B STRUCTURAL RETROFITS Structural Building 2 Details with S2.1AR provided in this addendum.

Item No. 26 – REPLACE Sheet S2.1B – ERWWTF SCHED B STRUCTURAL RETROFITS Structural Aeration Building Details with S2.1B provided in this addendum.

Item No. 27 – REPLACE Sheet G.5 – ERWWTF SCHED A EARTHQUAKE REPAIRS Water Piping Insulation Repairs addressing repairs to pipe insulation to be completed under Schedule A with G.5R provided int this addendum.

Where any requirements of the Invitation to Bid are in conflict with an item in an Addendum, the Addendum shall govern.

All other terms and conditions of the Invitation to Bid shall remain unchanged and in full force and effect.

END OF ADDENDUM NO. 1

RFP No. 2022C044
TITLE: ERWWTF EQ Repairs & Structural Retrofits

Addendum No. 1
November 16, 2022

Bid Proposal (Continued) - Revised

BID SCHEDULE A. EARTHQUAKE REPAIRS Items per Specifications Division 01, Section 01 10 00, Section 01 20 00, and Drawings.

LUMP SUM PRICE

Description	Bid Price
ITEM 1 – Schedule A. Earthquake Repairs	\$ _____

UNIT PRICE

Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
ITEM 2 – Schedule A. Remove and Replace sections of damaged 6” W3 piping insulation and wrap (20 locations, each ±2 linear feet). Aeration Building and Building 2 per Drawing G.5.	each	20	\$ _____ each	\$ _____
ITEM 3 – Schedule A. Repair drywall cracks on walls. Building 1 (100-feet) and Building 2 (200-feet).	linear foot	300	\$ _____ per linear foot	\$ _____
ITEM 4 - Schedule A. Remove and Replace sections of damaged 2” W1 piping insulation and wrap (1 location, ±4 linear feet). Building 2 per Drawing G.5.	linear foot	4	\$ _____ each	\$ _____

- A. Bidder acknowledges that: (1) each Bid Unit Price includes an amount considered by bidder to be adequate to cover overhead and profit for each separately identified item.

SCHEDULE A. EARTHQUAKE REPAIRS

LUMP SUM AND UNIT BID PRICE TOTALS \$ _____
 (numeric)

Company Name _____

RFP No. 2022C044
TITLE: ERWWTF EQ Repairs & Structural Retrofits

Addendum No. 1
November 16, 2022

Bid Proposal (Continued) - Revised

BID SCHEDULE B, ITEM 1. STRUCTURAL RETROFITS Items per Specifications Division 01, Section 01 10 00, Section 01 20 00, and Drawings.

LUMP SUM PRICE

Description	Bid Price
ITEM 1 – Schedule B. Structural Retrofits	\$ _____

UNIT PRICE

Description	Unit	Estimated Quantity	Bid Unit Price	Bid Price
ITEM 2 - Schedule B. Install new collector beams including welds per details S2.1/10 and S2.1A/12	each	13	\$ _____ each	\$ _____
ITEM 3 - Schedule B. Retrofit plates and weld connections per details S2.1A/8 and S2.1B/8	each	8	\$ _____ each	\$ _____

- A. Bidder acknowledges that: (1) each Bid Unit Price includes an amount considered by bidder to be adequate to cover overhead and profit for each separately identified item.

SCHEDULE B. STRUCTURAL RETROFITS

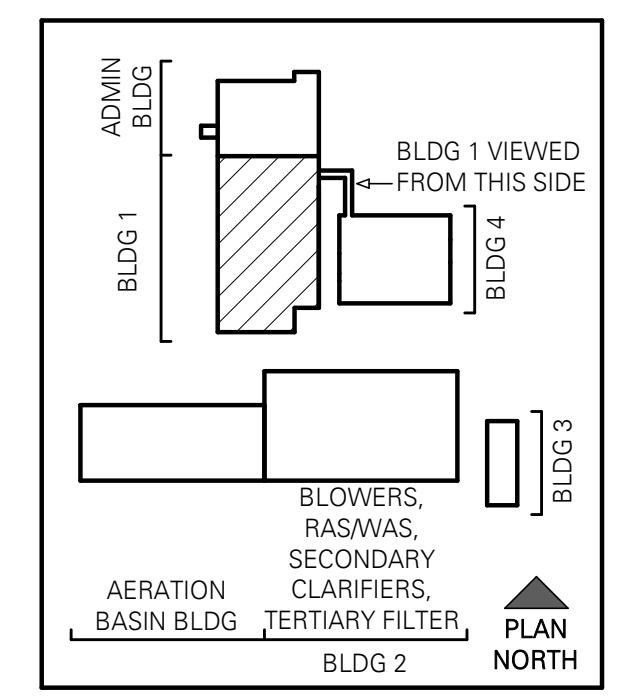
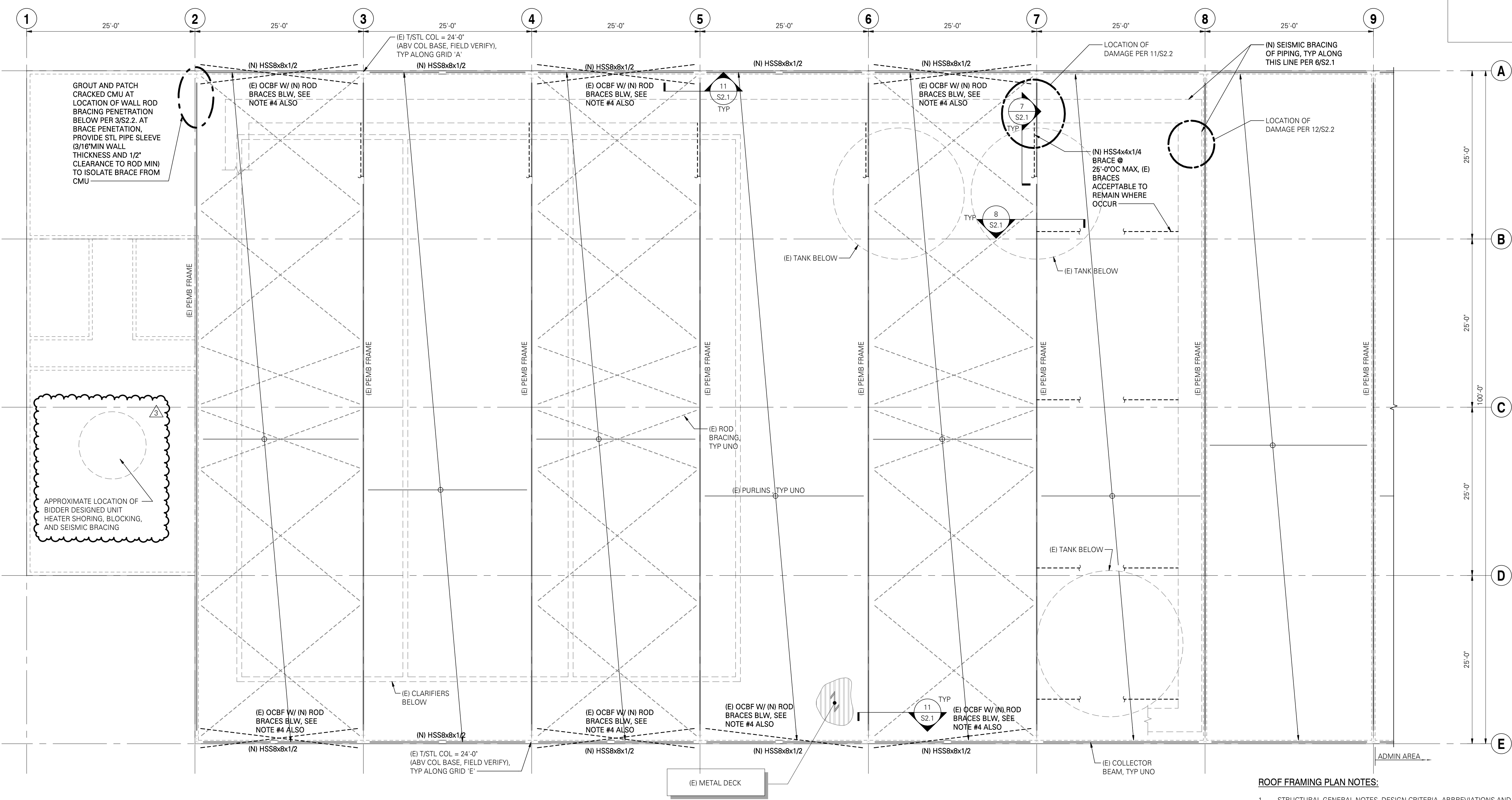
LUMP SUM AND UNIT BID PRICE TOTAL \$ _____

(numeric)

Company Name _____

ERWWTF SCHED A EARTHQUAKE REPAIRS-STAMPED

ACAD FILE: \\dc-i-share\profiles\dhastings\Redirection\Folders\Temp\Struct-18101-0037-R2020 - Building 1_Earthquake Repairs.rvt PLOT DATE: 11/11/2022 1:25:10 PM PAGE SETUP NAME: Building 1_Earthquake Repairs.rvt



AWWU PLAN SET NO. 11173

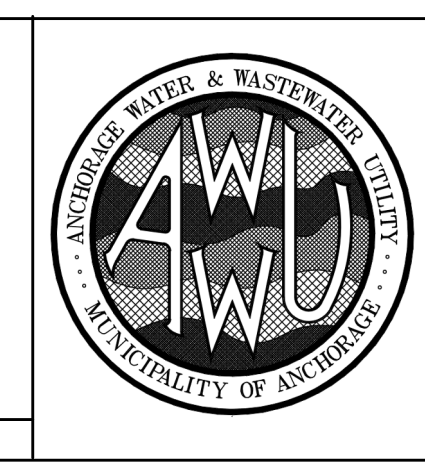
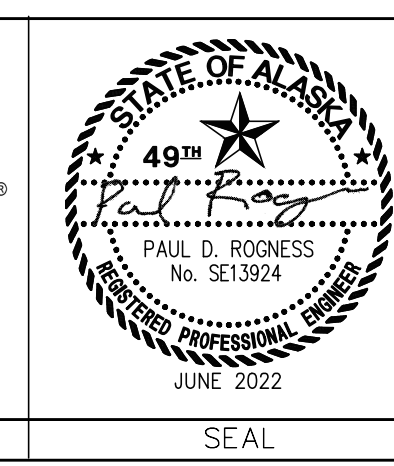
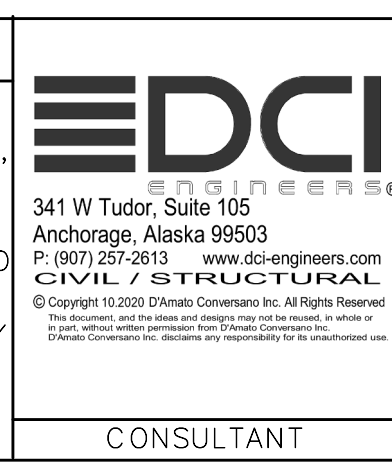
- ROOF FRAMING PLAN NOTES:
1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
2. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
4. AT ALL LOCATIONS WHERE NEW ROD BRACES ARE SHOWN, CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBERS, AND INSTALL NEW RODS AND HARDWARE.

BUILDING 1 ROOF FRAMING PLAN SCALE: 1/8"=1'-0"

Table with columns for REV, DATE, DESCRIPTION, and BY. Includes a 'VERIFY SCALE' section and a 'REVISIONS' section.

RECORD DRAWING Note: To be filled out on original drawings upon project completion. 1. DATA PROVIDED BY: This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.

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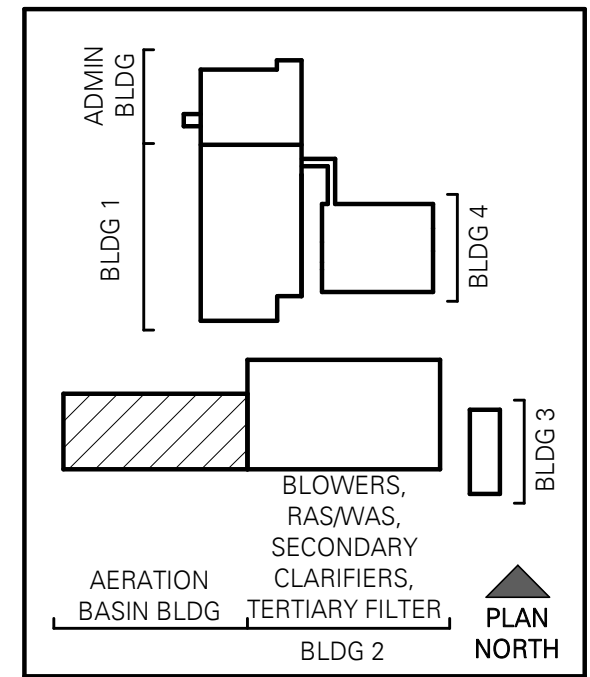
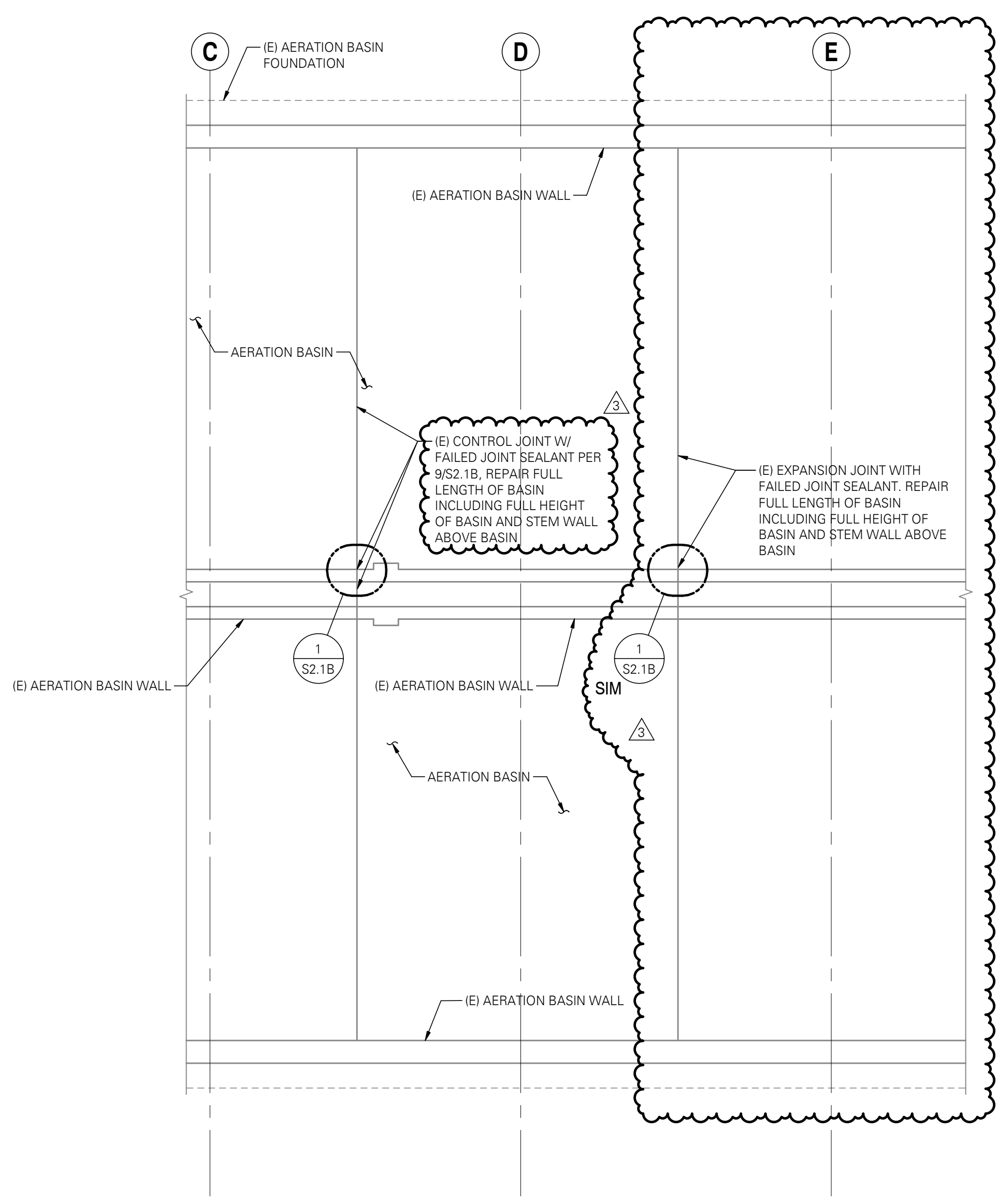
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY. ERWWTF SCHED A EARTHQUAKE REPAIRS. STRUCTURAL BUILDING 1 ROOF FRAMING PLAN. DATE: JUNE 2022 GRID: NW0150 SHEET 7 of 24. PROJ. ID.: WM.00151

Vertical text on the right edge of the drawing area.

ERWWTF SCHED A EARTHQUARK REPAIRS-STAMPED

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FOUNDATION PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
2. ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
3. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.

AERATION BASIN PLAN SCALE: 1/8" = 1'-0"

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE			
DATE	DRAWN BY	CHECKED BY	DATE	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY			
						1	05/2022	BDC RESPONSE RD 1	JLR			
						2	6/24/22	TENSION ROD SCOPE	JLR			
						3	11/08/22	BID COMMENTS	JLR			
PLAN CHECK						REVISIONS						

RECORD DRAWING Note: To be filled out on original drawings upon project completion

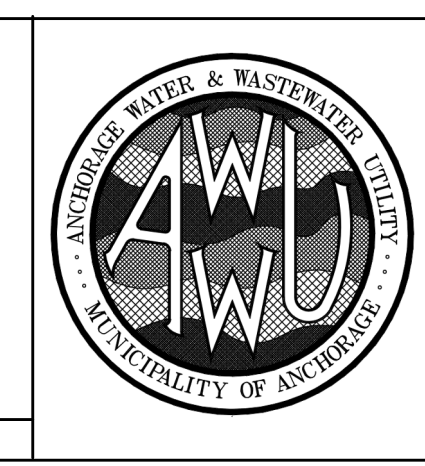
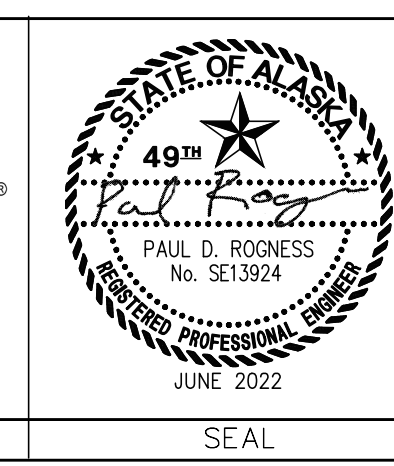
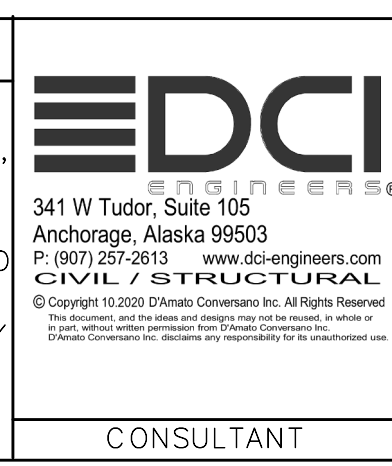
1. DATA PROVIDED BY: _____
 This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____ DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

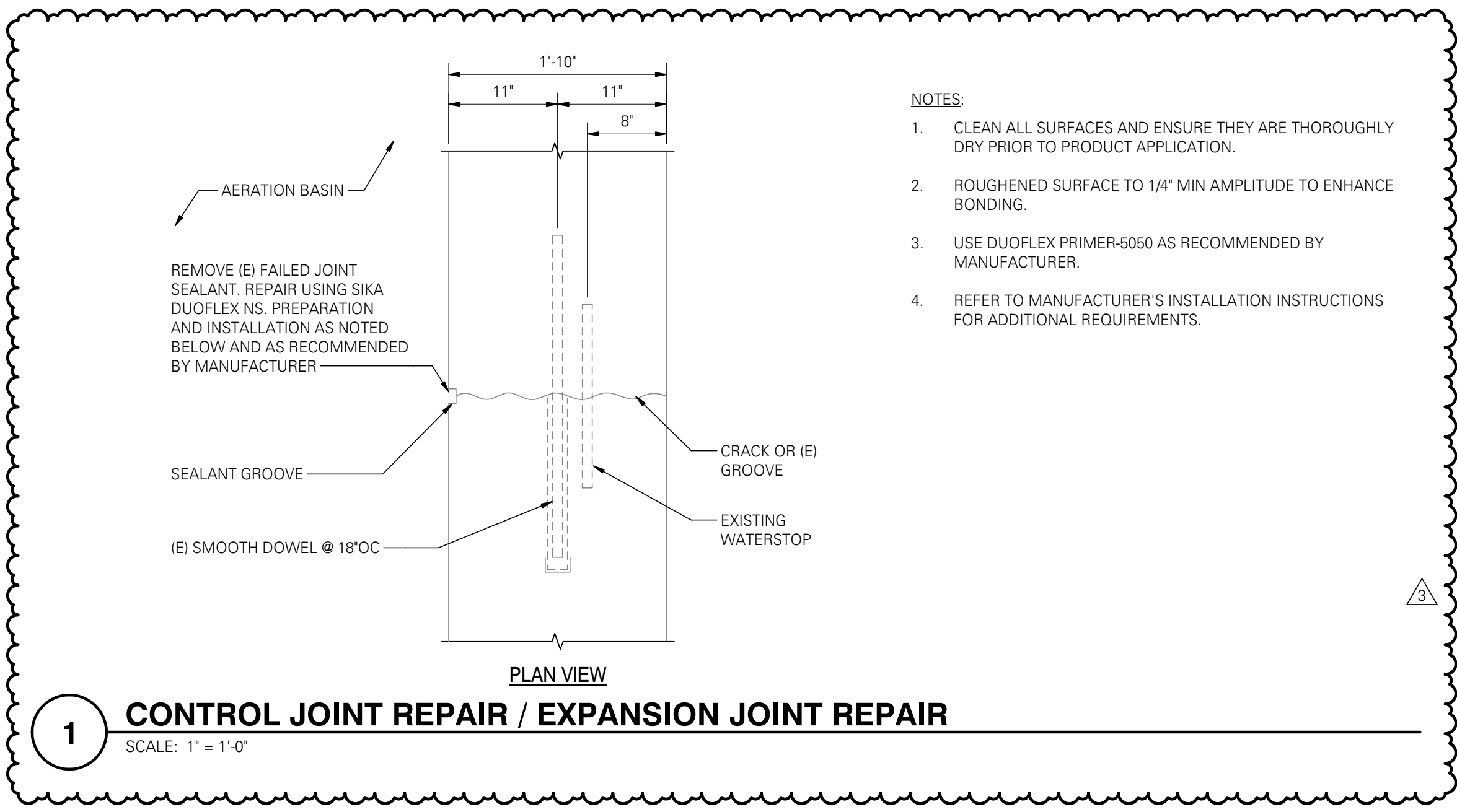
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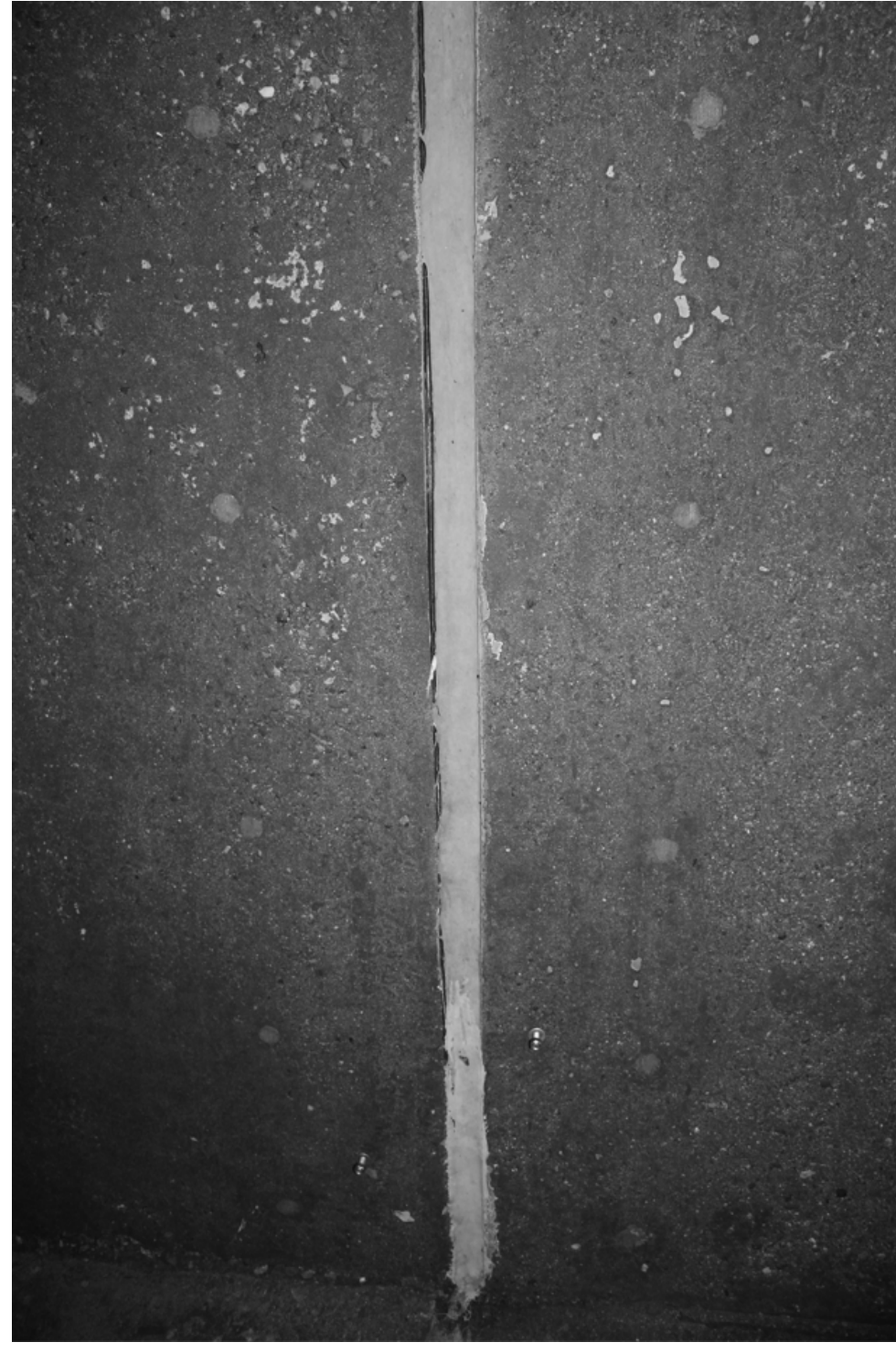


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		ERWWTF SCHED A EARTHQUAKE REPAIRS		DWG	
STRUCTURAL AERATION BUILDING AERATION BASIN PLAN		S1.1BR			
DATE: JUNE 2022		GRID: NWO150		SHEET 9 of 24	
PROJ. ID.: WM.00151					

ACAD FILE: \\dc:\share\profiles\dhastings\Redirected_Folders\Desktop\TEMP\Struct-18101-0037-R2020 - Aeration Bldg_Earthquake PLOT DATE: 11/11/2022 1:30:01 PM PAGE SETUP NAME:



- NOTES:**
- CLEAN ALL SURFACES AND ENSURE THEY ARE THOROUGHLY DRY PRIOR TO PRODUCT APPLICATION.
 - ROUGHENED SURFACE TO 1/4" MIN AMPLITUDE TO ENHANCE BONDING.
 - USE DUOFLEX PRIMER-5050 AS RECOMMENDED BY MANUFACTURER.
 - REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.



ELEVATION VIEW

NO.	DATE	BY	DESCRIPTION
1	05/2022		BDC RESPONSE RD 1
2	6/24/22		TENSION ROD SCOPE
3	11/08/22		BID COMMENTS

RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____
 This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____
 DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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 341 W Tudor, Suite 105
 Anchorage, Alaska 99503
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STATE OF ALASKA
 49th
 PAUL D. ROGNESS
 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 JUNE 2022

AWWU
 ANCHORAGE WATER & WASTEWATER UTILITY
 MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

ERWWTF SCHED A EARTHQUAKE REPAIRS

STRUCTURAL AERATION BUILDING AERATION BASIN DETAILS

DATE: JUNE 2022 GRID: NW0150

PROJ. ID.: WM.00151

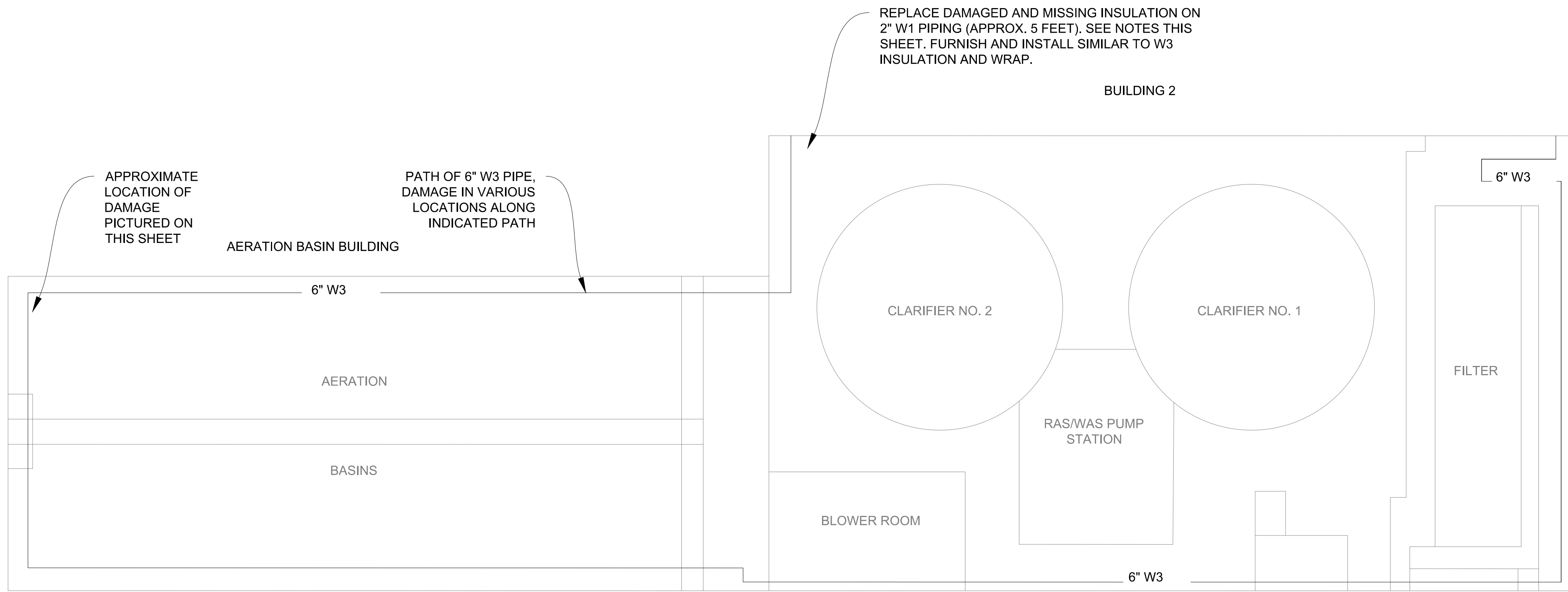
DWG S2.1BR

SHEET 12 of 24

AWWU PLAN SET NO. 11173

ERWWTF SCHED A EARTHQUARK REPAIRS-STAMPED

**AWWU PLAN SET
NO. 11173**



- NOTES:**
PER QUANTITIES IDENTIFIED ON THE BID PROPOSAL, AND AT LOCATIONS IDENTIFIED BY THE OWNER ON THE 6-INCH W3 PIPELINE IN THE AERATION BUILDING AND BUILDING 2, REMOVE SECTIONS OF INSULATION AND WRAP DAMAGED BY CHAFFING OF THE PIPE SUPPORTS AND REPLACE WITH NEW INSULATION AND WRAP AS FOLLOWS:
- 1) FURNISH AND INSTALL NEW INSTALLATION OF THICKNESS AND WRAP TYPE TO MATCH THE EXISTING INSULATION THICKNESS AND WRAP TYPE.
 - 2) CUT THE EXISTING WRAP AND INSULATION STRAIGHT AND PERPENDICULAR TO THE W3 PIPELINE TO REMOVE THE DAMAGED SECTION WITHOUT CONTACTING THE EXISTING W3 PIPING WITH CUTTING TOOLS.
 - 3) CUT A NEW SECTION OF INSULATION AND WRAP STRAIGHT AND TO THE LENGTH REQUIRED TO SNUGGLY FIT THE AREA OF THE REMOVED SECTION.
 - 4) INSTALL THE NEW SECTION OF INSULATION AND WRAP IN ACCORDANCE WITH THE MANUFACTURER'S PIPE INSULATION, INCLUDING LAP JOINT SEALING AND BUTT STRAP INSTALLATION.
 - 5) PREFORMED FIBERGLASS PIPE INSULATION AND WRAP, COMPLYING WITH:
 - a) ASTM C547, CLASS 3
 - b) ASTM C518 THERMAL CONDUCTIVITY ("K"): 0.23 BTUIN/ (HRFT2 °F) AT 75°F MEAN TEMPERATURE
 - c) MAXIMUM SERVICE TEMPERATURE: 850°F
 - d) ASTM E84 RATED 25/50
 - e) ASTM C 1136, TYPE I WRAP: WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; WITH SELF-SEALING, PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP.
 - 6) MANUFACTURER AND PRODUCT: JOHNS MANVILLE; MICRO-LOK. OR APPROVED EQUAL.



DAMAGED / MISSING W1 INSULATION TO BE REPLACED



EXAMPLE OF W3 PIPING INSULATION DAMAGE TO BE REPAIRED IN THE AERATION BASIN BUILDING ALONG THE WEST WALL

VERIFY SCALE
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

REV	DATE	DESCRIPTION	BY
1		BID COMMENTS	

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
DATE: _____ TITLE: _____
BY: _____

2. DATA TRANSFERRED BY: _____
COMPANY: _____
DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
DATA TRANSFER CHECKED BY: _____
DATE: _____ TITLE: _____
BY: _____

REUSE OF DOCUMENTS

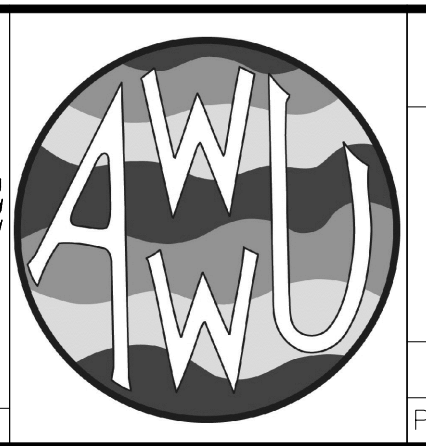
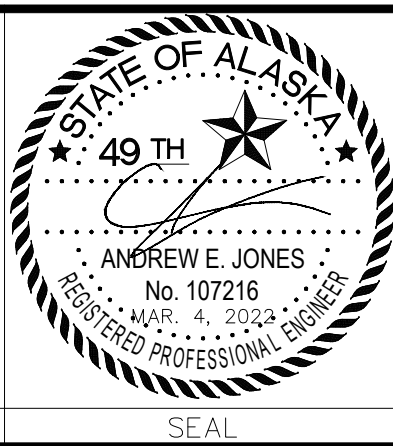
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GV Jones & Associates, Inc.
WATER AND WASTEWATER PROCESS ENGINEERS

1200 E. 76th Ave., Unit 1207
Anchorage, Alaska 99503
Phone: (907) 346-4123

PRIME CONSULTANT

CONSULTANT



MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

ERWWTF SCHED A EARTHQUAKE REPAIRS

WATER PIPING
INSULATION REPAIRS

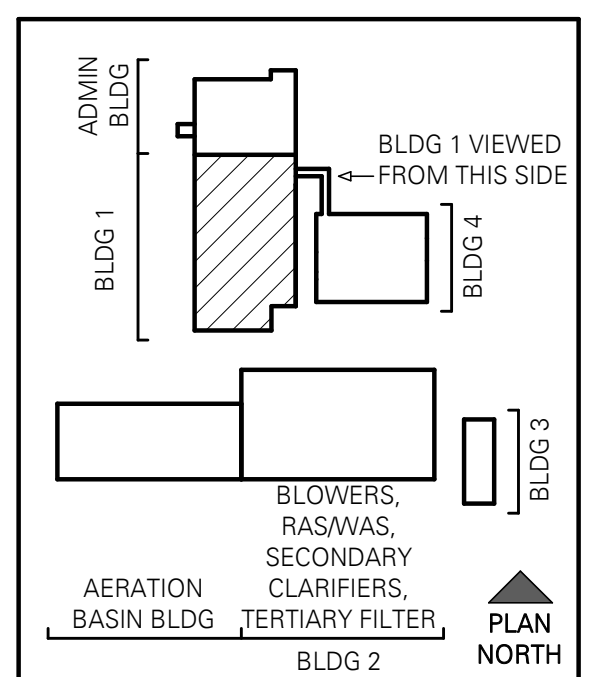
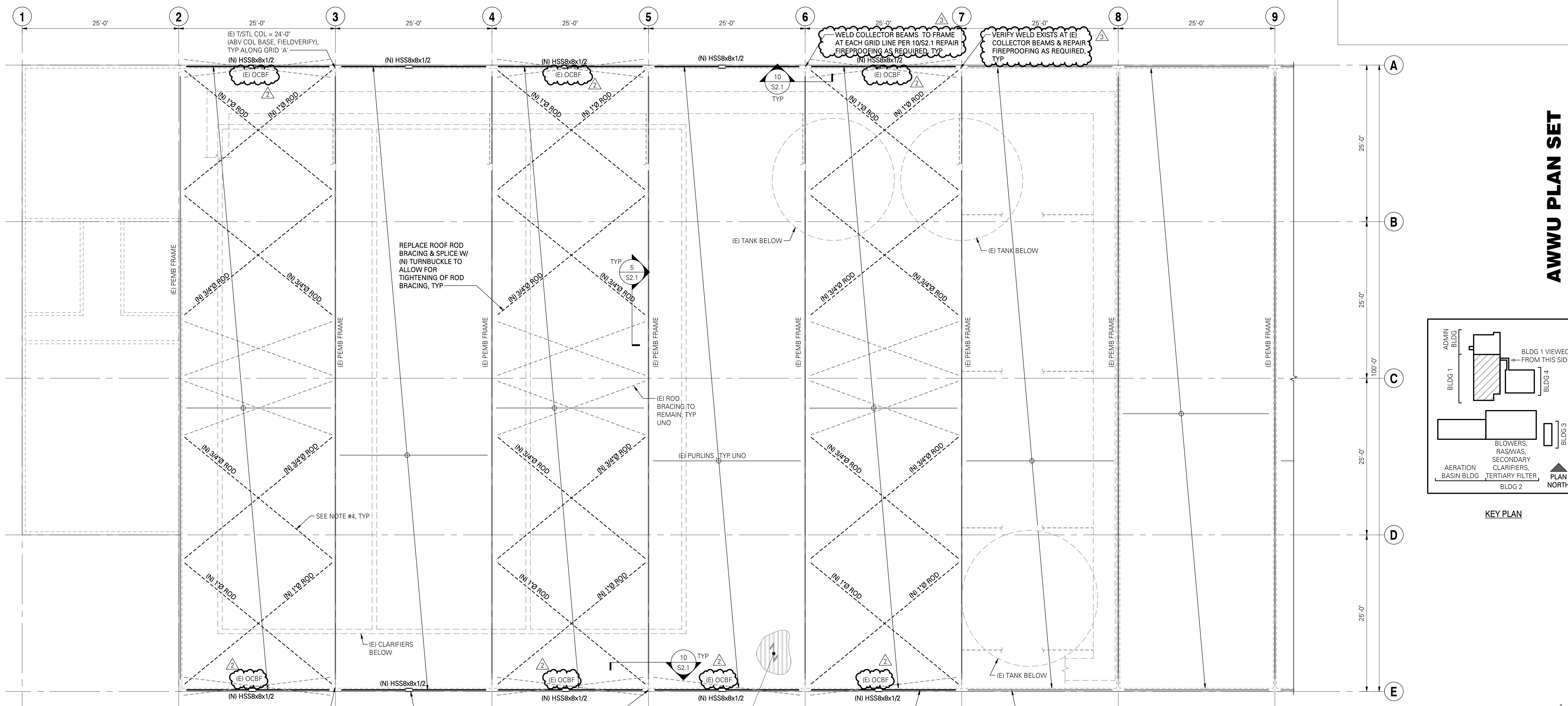
DATE: NOV 2022 GRID: NE 1902

PROJ. ID.: WM.00151

DWG G.5 R

SHEET 29 of 29

ACAD FILE: \\dc-i-share\profiles\dhastings\Redirection\Folders\TempStruct-18101-0037-R2020 - Building 1_Resiliency.rvt PAGE SETUP NAME: 11/11/2022 2:36:51 PM



ROOF FRAMING PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
- ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
- REPLACE SUSPENDED CEILING IN ADMINISTRATION PORTION OF BUILDING 1 PER MOA HANDOUT A.04 AND 7/S2.1.
- TYPICAL DETAILS PER: 4/S2.1 ROOF DECK TO RIGID FRAME AT ALL MAIN FRAME BAYS OF BUILDING 1/ADMIN BLDG.

BUILDING 1 ROOF FRAMING PLAN
SCALE: 1/8"=1'-0"

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY		FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A			
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
						1	05/2022	BDC RESPONSE RD 1	JLR
						2	6/24/22	TENSION ROD SCOPE	JLR
						3	11/08/22	BID COMMENTS	JLR
PLAN CHECK					REVISIONS				

RECORD DRAWING Note: To be filled out on original drawings upon project completion

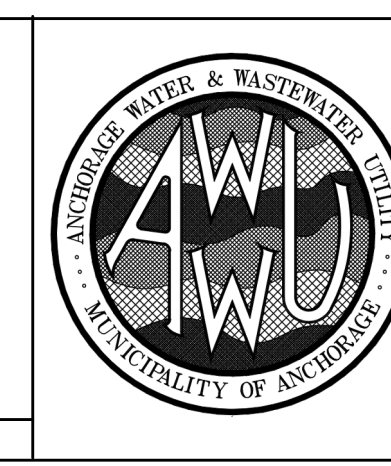
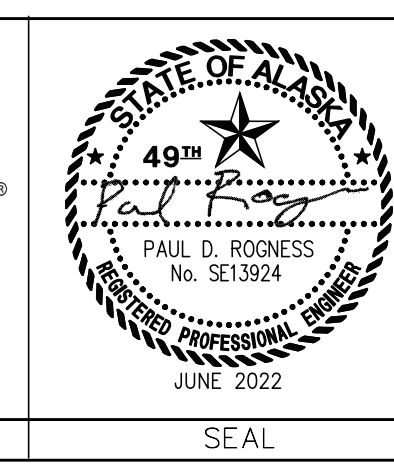
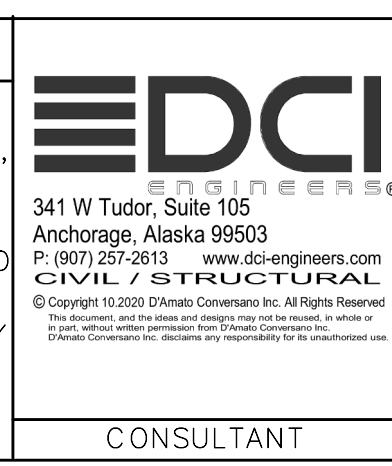
1. DATA PROVIDED BY: _____
 This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
 COMPANY: _____
 DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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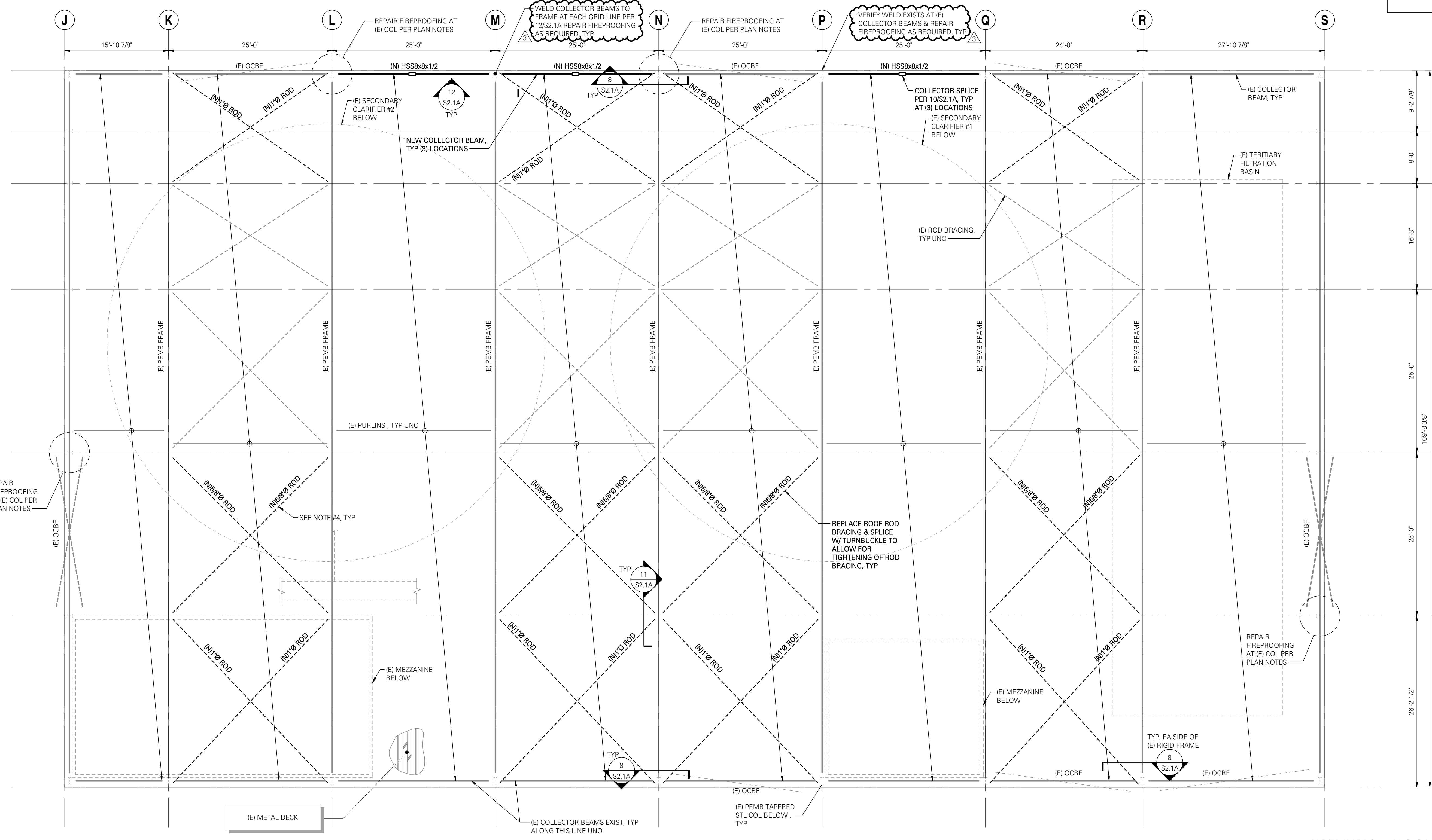
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG S1.1R
ERWWTF SCHED B STRUCTURAL RETROFITS		
STRUCTURAL BUILDING 1 ROOF FRAMING PLAN		SHEET 19 of 24
DATE: JUNE 2022	GRID: NW0150	
PROJ. ID.: WM.00151		

**AWWU PLAN SET
NO. 11173**

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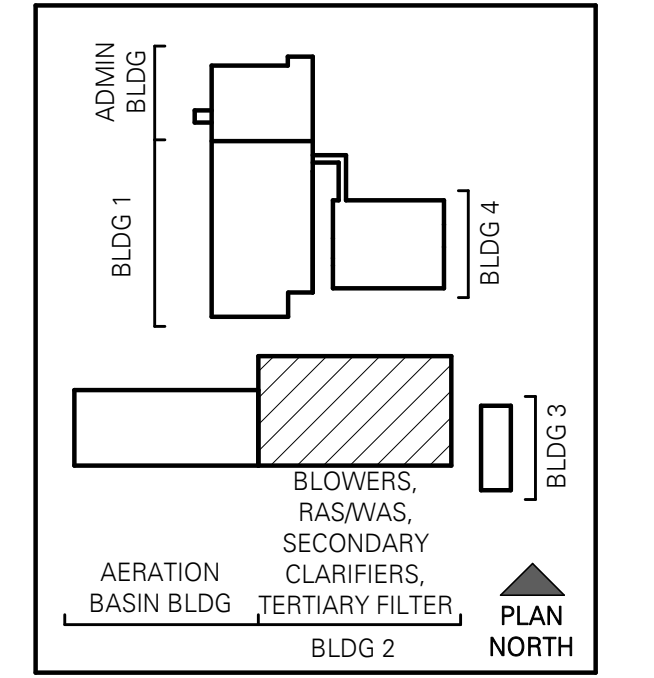
ERWWTF SCHED B EARTHQUARK REPAIRS-STAMPED

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- ROOF FRAMING PLAN NOTES:**
- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S0.1, S0.2 AND S0.3.
 - ALL EXISTING DIMENSIONS SHALL BE FIELD VERIFIED.
 - CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
 - AT ALL LOCATIONS WHERE NEW ROD BRACES ARE SHOWN, CONTRACTOR SHALL REMOVE EXISTING RODS AND HARDWARE, REPAIR EXISTING COATING ON PRIMARY STEEL MEMBERS, AND INSTALL NEW RODS AND HARDWARE.
 - PREPARE EXISTING COLUMNS WITH CHIPPED/DAMAGED SPRAY-APPLIED FIRE-RESISTIVE MATERIAL (SFRM) AND FURNISH AND APPLY NEW FIRE RESISTIVE MATERIALS PER APPLICATION SCHEDULE IN SPECIFICATION SECTION 07 81 00 APPLIED FIRE RESISTIVE MATERIALS. SFRM REQUIRES SPECIAL INSPECTION PER IBC SECTION 1705.14.
 - TYPICAL DETAILS PER 4/S2.1A

AWWU PLAN SET NO. 11173



BUILDING 2 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

VERIFY SCALE			IF BAR IS NOT ONE INCH ON ORIGINAL DRAWING			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION
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						2	06/24/22	TENSION ROD SCOPE
						3	11/08/22	BID COMMENTS
PLAN CHECK			REVISIONS					

RECORD DRAWING Note: To be filled out on original drawings upon project completion

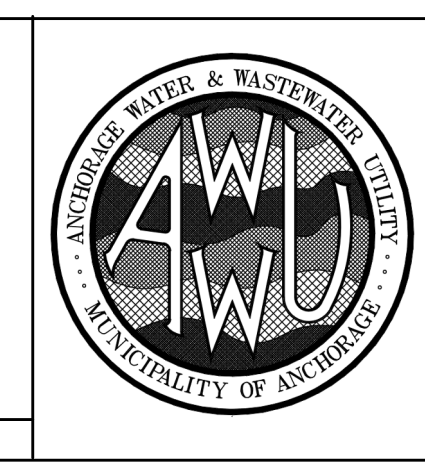
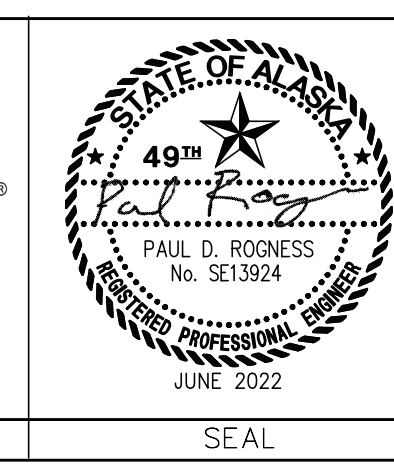
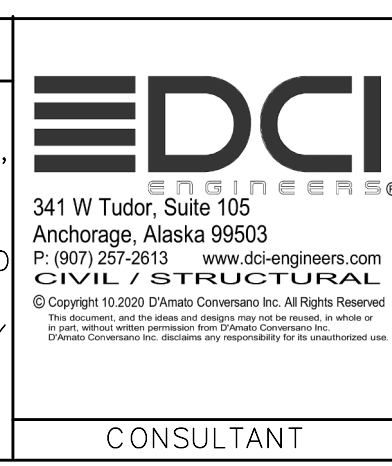
1. DATA PROVIDED BY: _____
 This shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
 CONTRACTOR: _____ TITLE: _____
 BY: _____ DATE: _____

2. DATA TRANSFERRED BY: _____
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 DATA TRANSFER CHECKED BY: _____
 COMPANY: _____
 BY: _____ TITLE: _____
 DATE: _____

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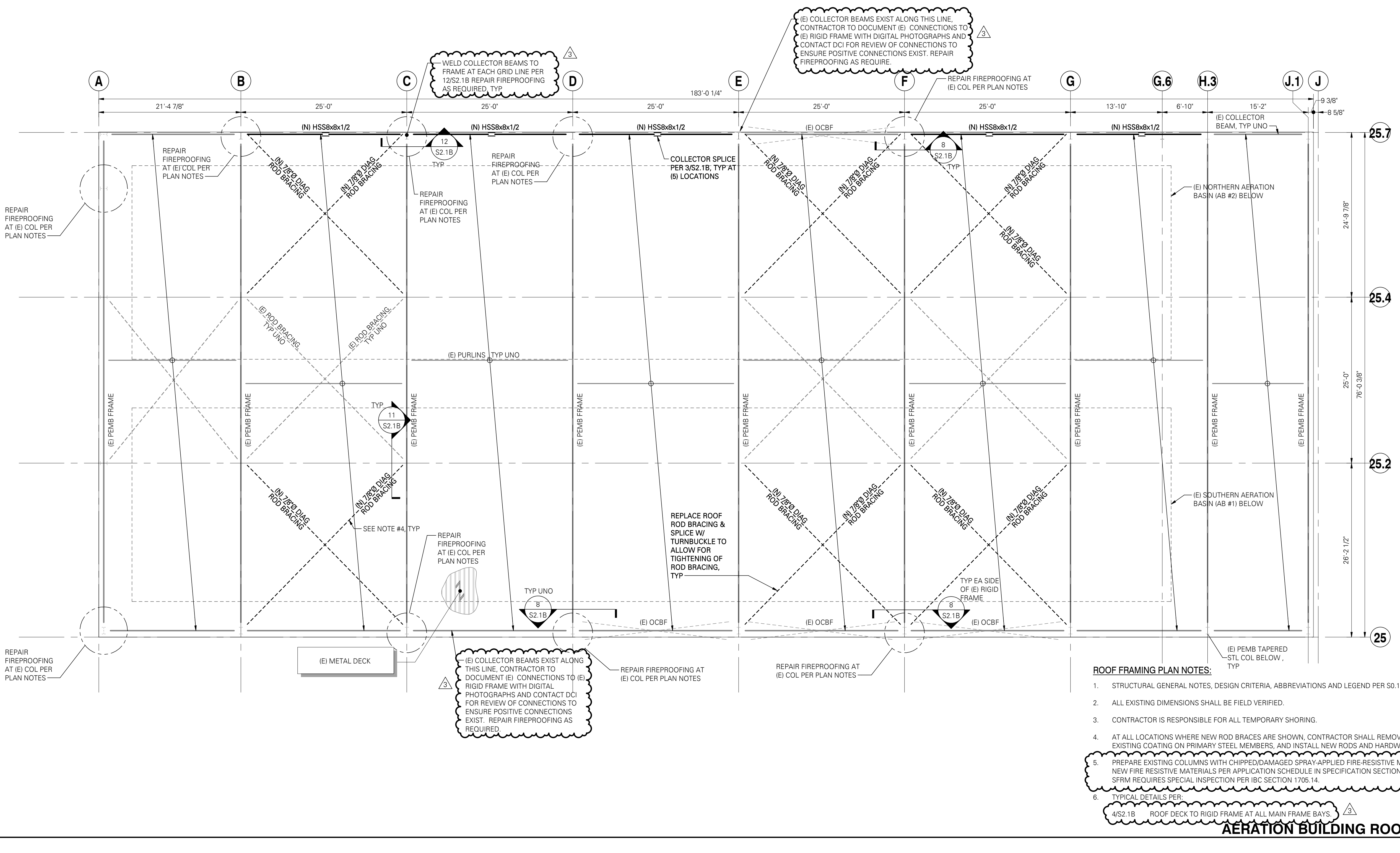
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
ERWWTF SCHED B STRUCTURAL RETROFITS		S1.1AR
STRUCTURAL BUILDING 2 ROOF FRAMING PLAN		
DATE: JUNE 2022	GRID: NW0150	SHEET 20 of 24
PROJ. ID.: WM.00151		

11/11/2022 2:35:08 PM \\dc1-ll-share\Profiles\dhastings\Redirections\Folders\Desktop\TEMP\Struct-18101-0037-R2020 - Building 2_Resiliency.rvt

ERWWTF SCHED B EARTHQUARK REPAIRS-STAMPED

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AWWU PLAN SET NO. 11173



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 - PREPARE EXISTING COLUMNS WITH CHIPPED/DAMAGED SPRAY-APPLIED FIRE-RESISTIVE MATERIAL (SFRM) AND FURNISH AND APPLY NEW FIRE RESISTIVE MATERIALS PER APPLICATION SCHEDULE IN SPECIFICATION SECTION 07 81 00 APPLIED FIRE RESISTIVE MATERIALS. SFRM REQUIRES SPECIAL INSPECTION PER IBC SECTION 1705.14.
 - TYPICAL DETAILS PER:
4/S2.1B ROOF DECK TO RIGID FRAME AT ALL MAIN FRAME BAYS.

AERATION BUILDING ROOF FRAMING PLAN SCALE: 1/8" = 1'-0"

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
						1	05/2022	BDC RESPONSE RD 1	JLR		
						2	06/24/22	TENSION ROD SCOPE	JLR		
						3	11/08/22	BID COMMENTS	JLR		
PLAN CHECK						REVISIONS					

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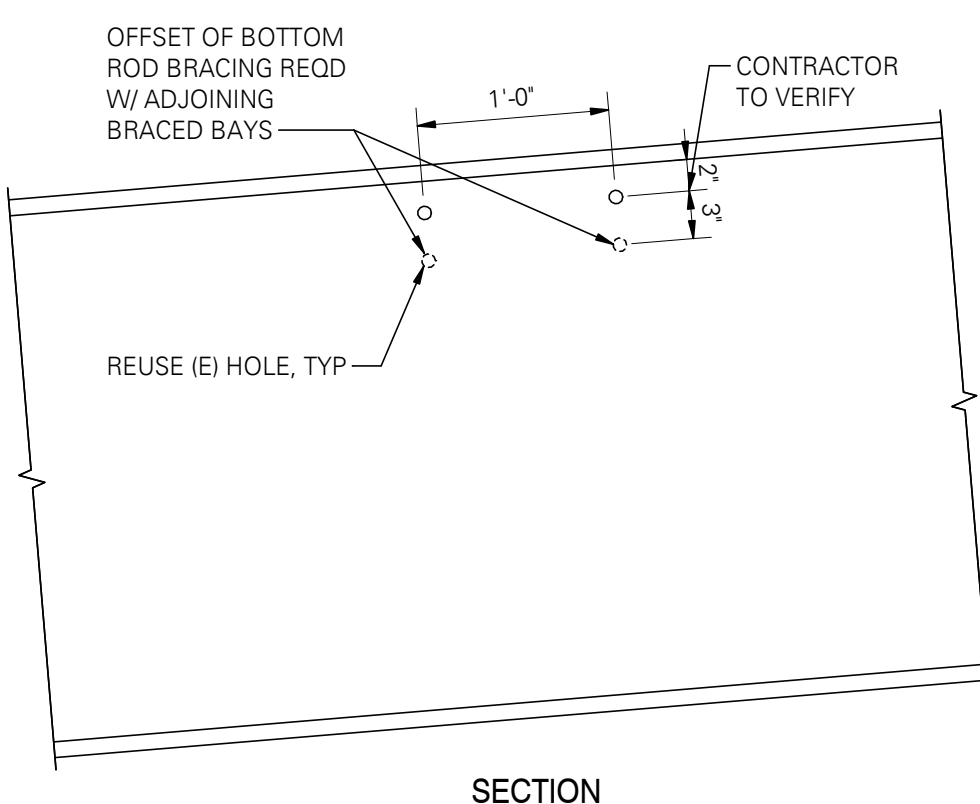
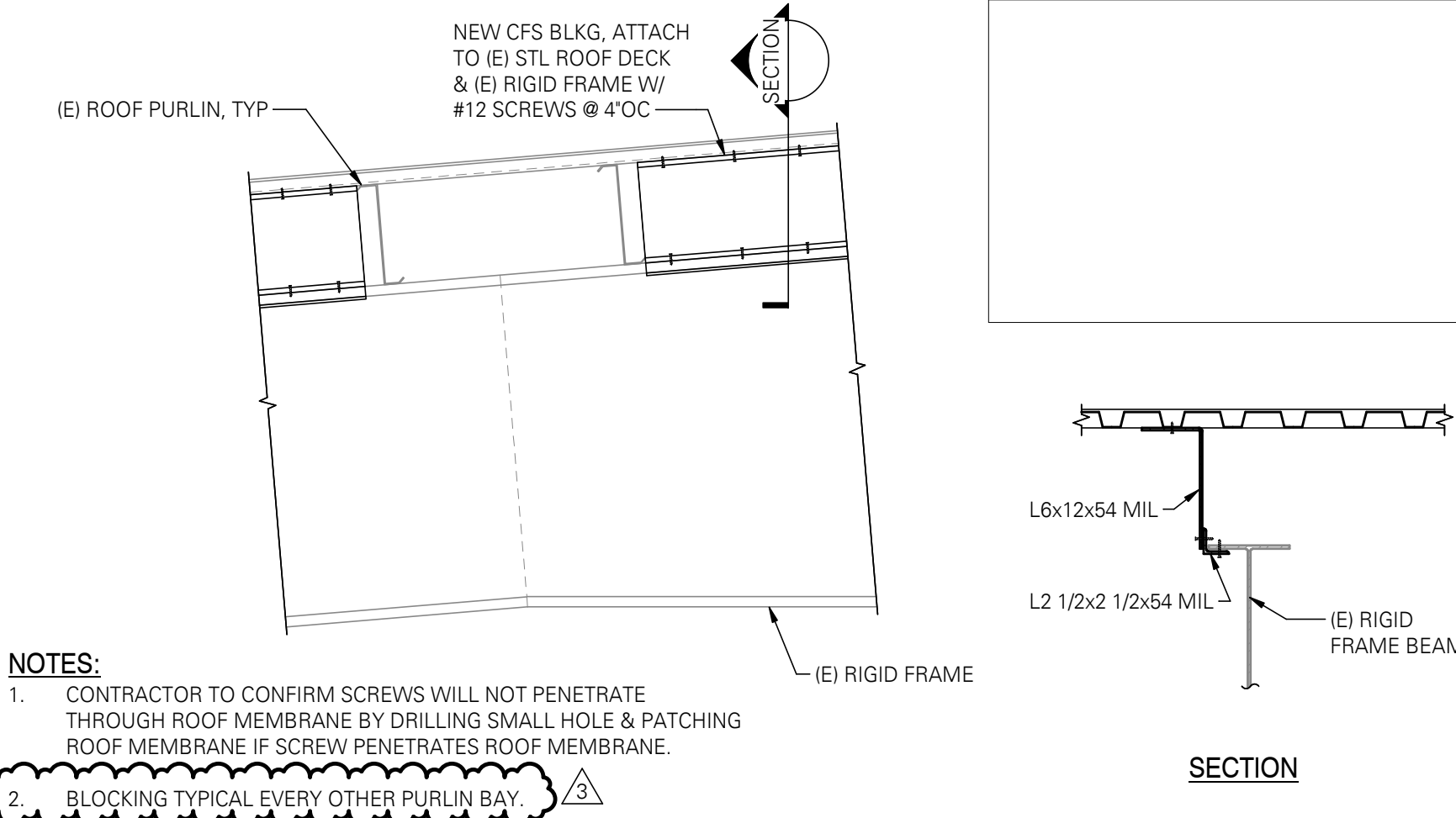
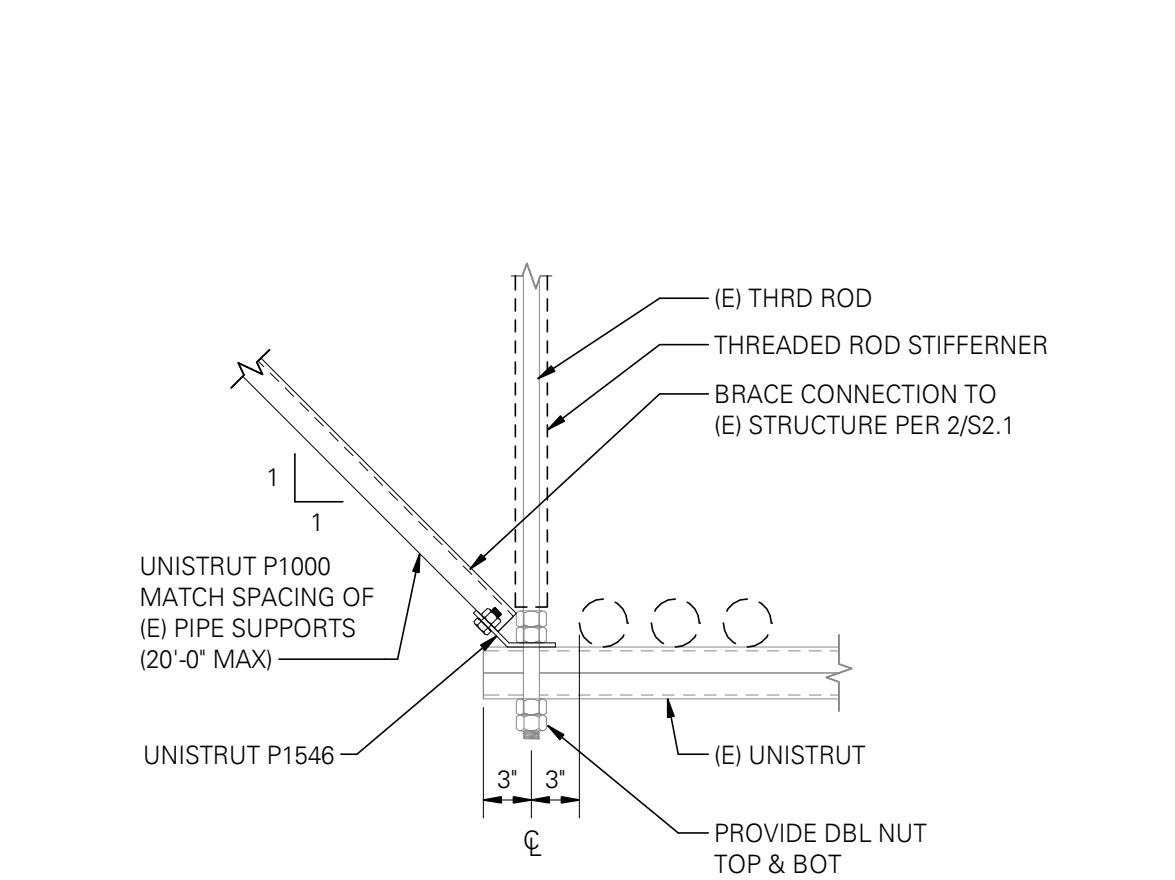
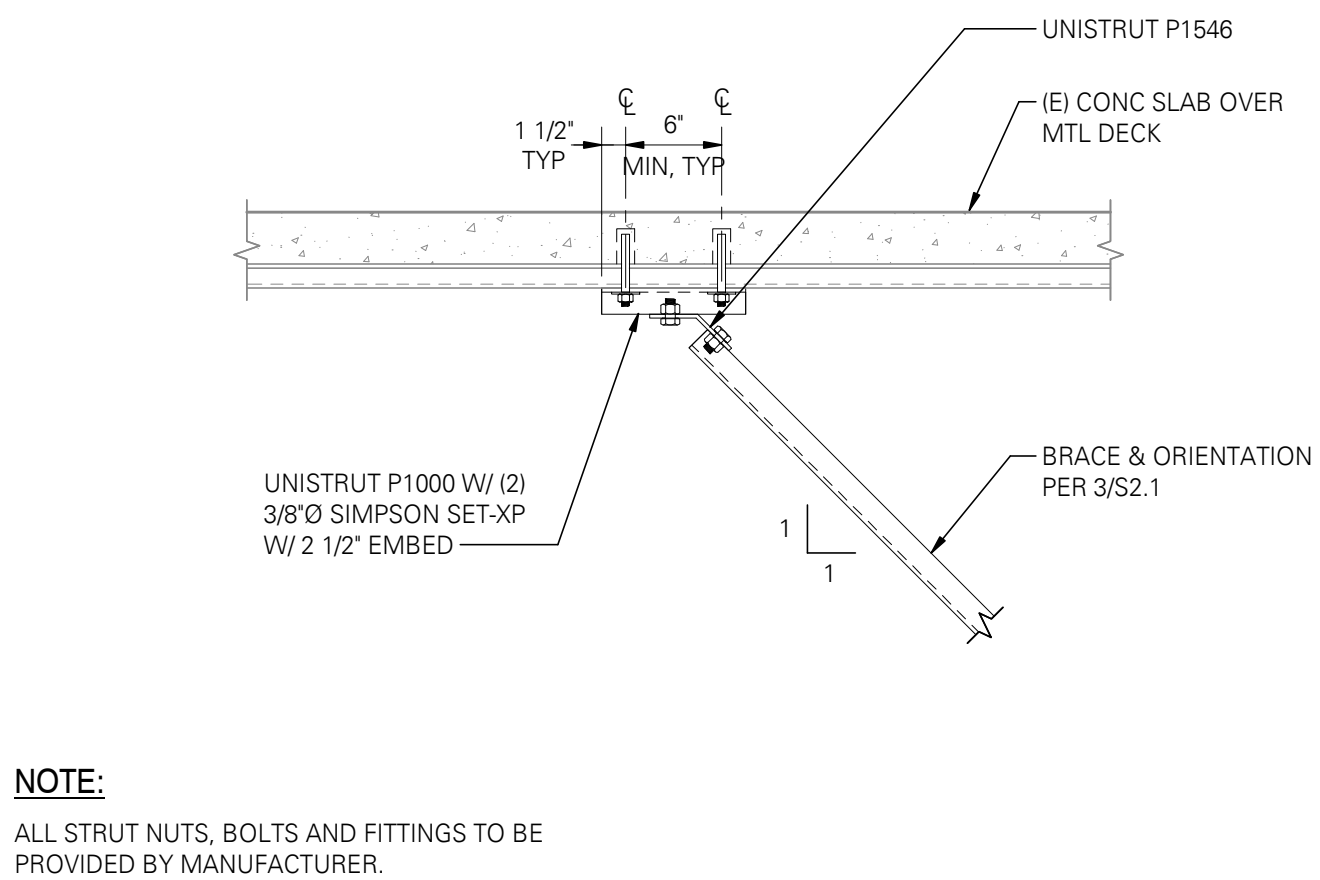
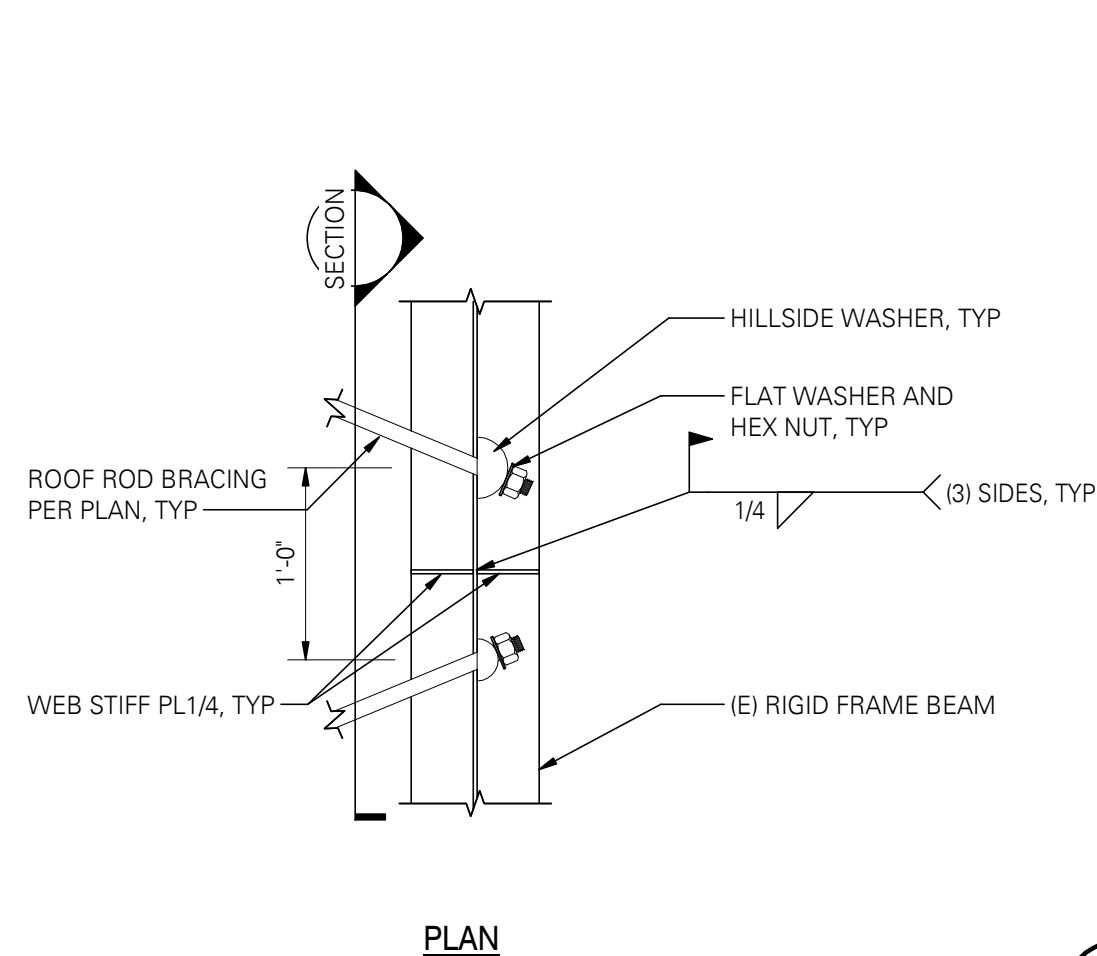
STATE OF ALASKA
 49th
 PAUL D. ROGNESS
 No. SE13924
 PROFESSIONAL ENGINEER
 JUNE 2022

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
 AWWU

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY
 ERWWTF SCHED B STRUCTURAL RETROFITS
 STRUCTURAL AERATION BUILDING ROOF FRAMING PLAN
 DATE: JUNE 2022 GRID: NW0150
 PROJ. ID.: WM.00151

DWG S1.1BR
 SHEET 21 of 24

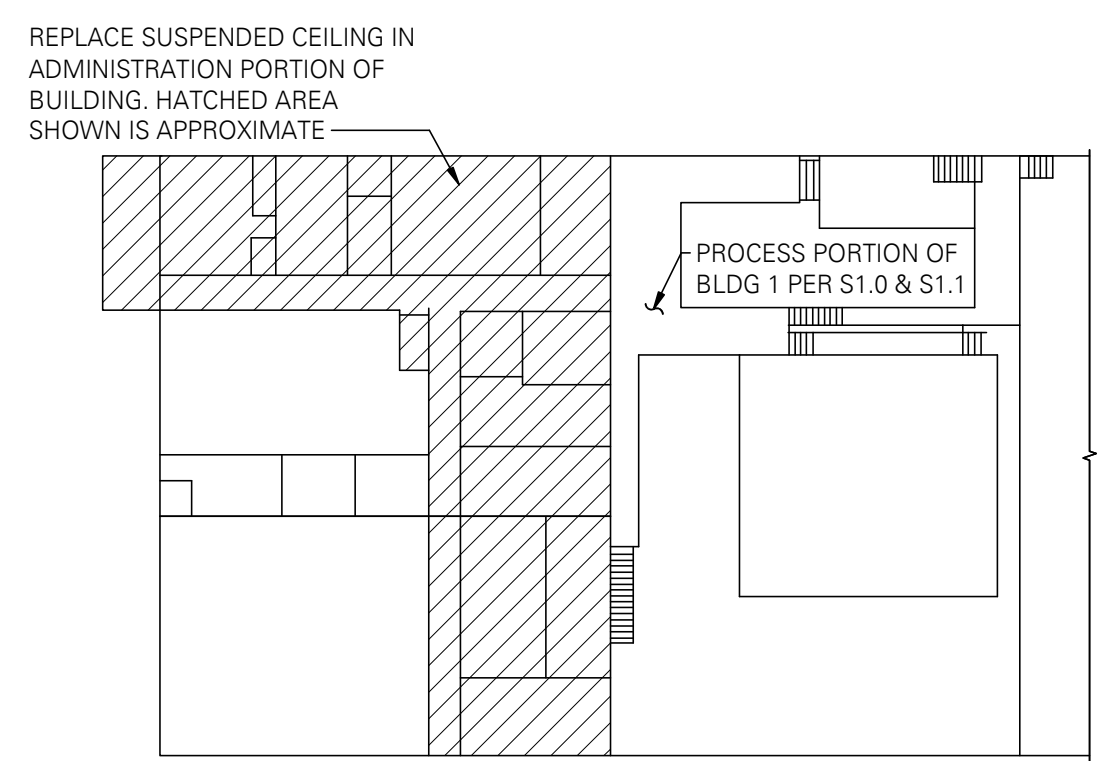
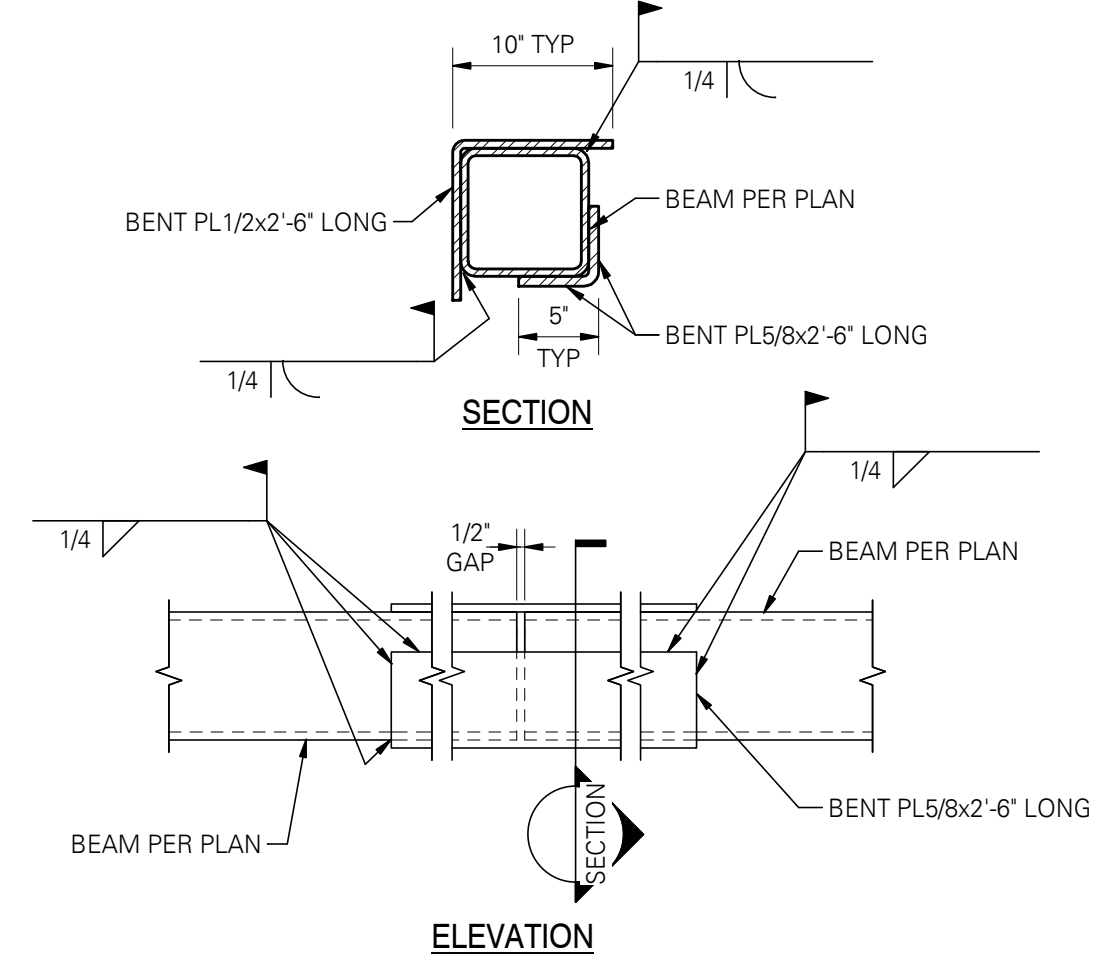
ERWWTF SCHED B EARTHQUARK REPAIRS-STAMPED



2 BRACE CONNECTION TO EXISTING STRUCTURE
SCALE: 1" = 1'-0"

3 SUSPENDED PIPE TRAPEZE CONNECTION
SCALE: 1" = 1'-0"

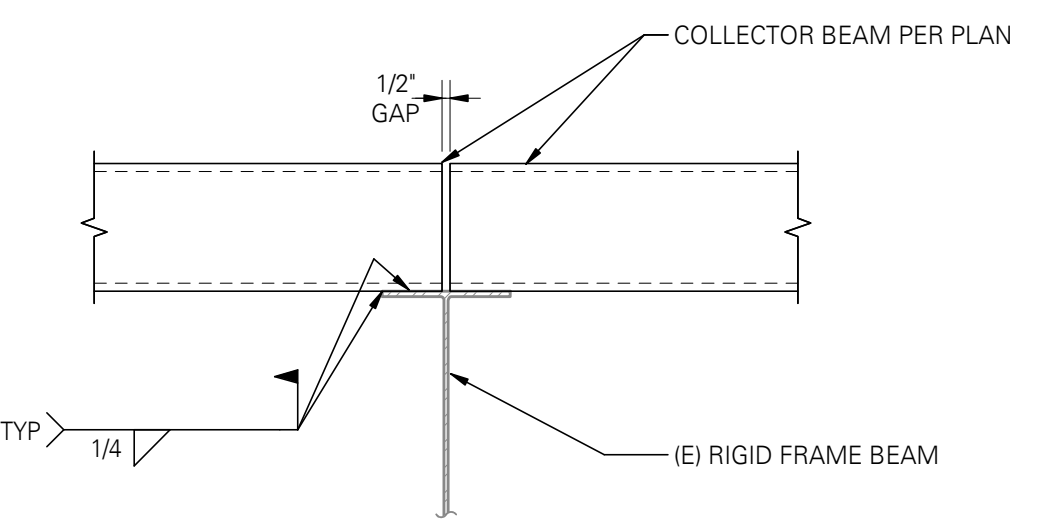
4 ROOF DECK TO RIGID FRAME LATERAL LOAD PATH RETROFIT
SCALE: 3/4" = 1'-0"



6 COLLECTOR BEAM SPLICE DETAIL
SCALE: 1" = 1'-0"

7 CEILING AT ADMIN AREA
SCALE: 1/32" = 1'-0"

5 ROOF ROD BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



10 COLLECTOR BEAM TO EXISTING RIGID FRAME BEAM
SCALE: 1" = 1'-0"

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
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						2	6/24/22	TENSION ROD SCOPE	JLR		
						3	11/08/22	BID COMMENTS	JLR		
PLAN CHECK						REVISIONS					

RECORD DRAWING Note: To be filled out on original drawings upon project completion

1. DATA PROVIDED BY: _____

THIS shall serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.

CONTRACTOR: _____ TITLE: _____

DATE: _____

2. DATA TRANSFERRED BY: _____

COMPANY: _____

DATE: _____

3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.

DATA TRANSFER CHECKED BY: _____

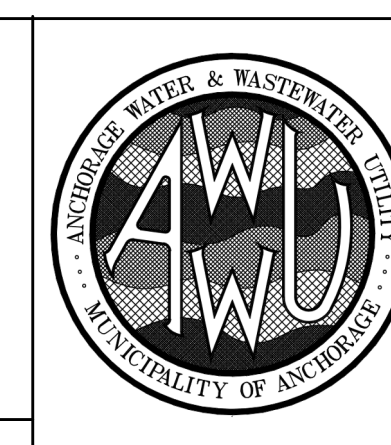
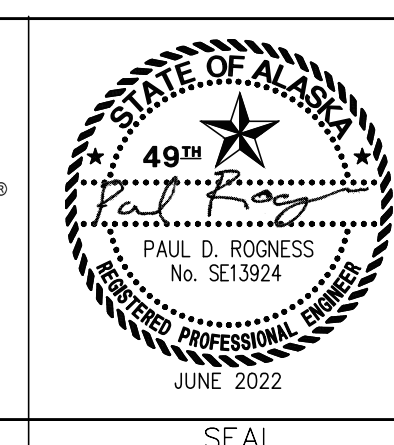
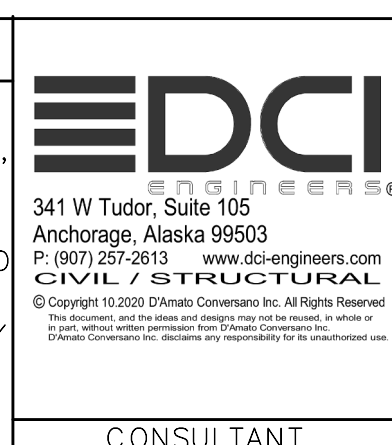
COMPANY: _____

BY: _____ TITLE: _____

DATE: _____

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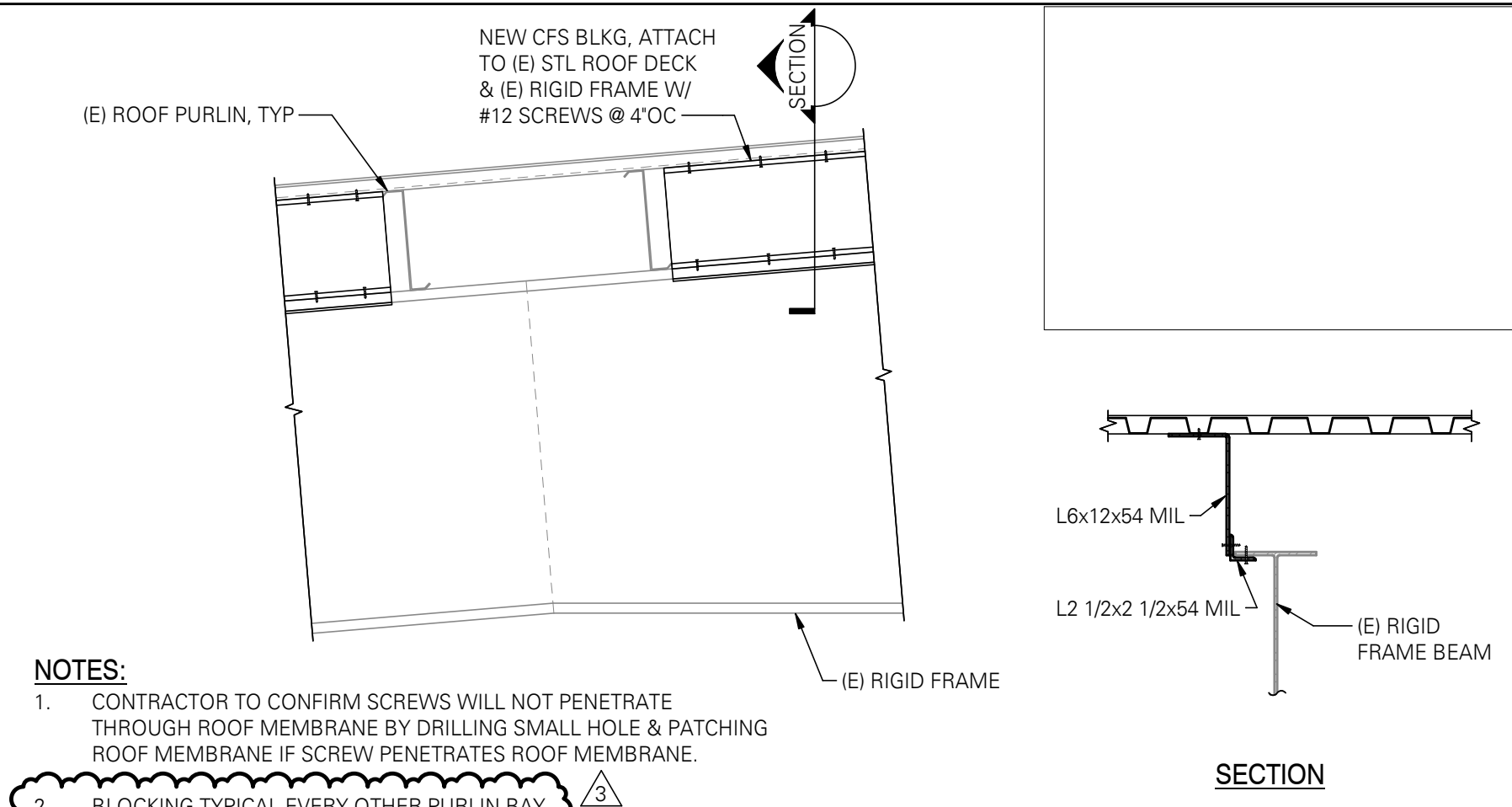


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY		DWG
ERWWTF SCHED B STRUCTURAL RETROFITS		S2.1R
STRUCTURAL BUILDING 1 DETAILS		
DATE: JUNE 2022	GRID: NW0150	SHEET 22 of 24
PROJ. ID.: WM.00151		

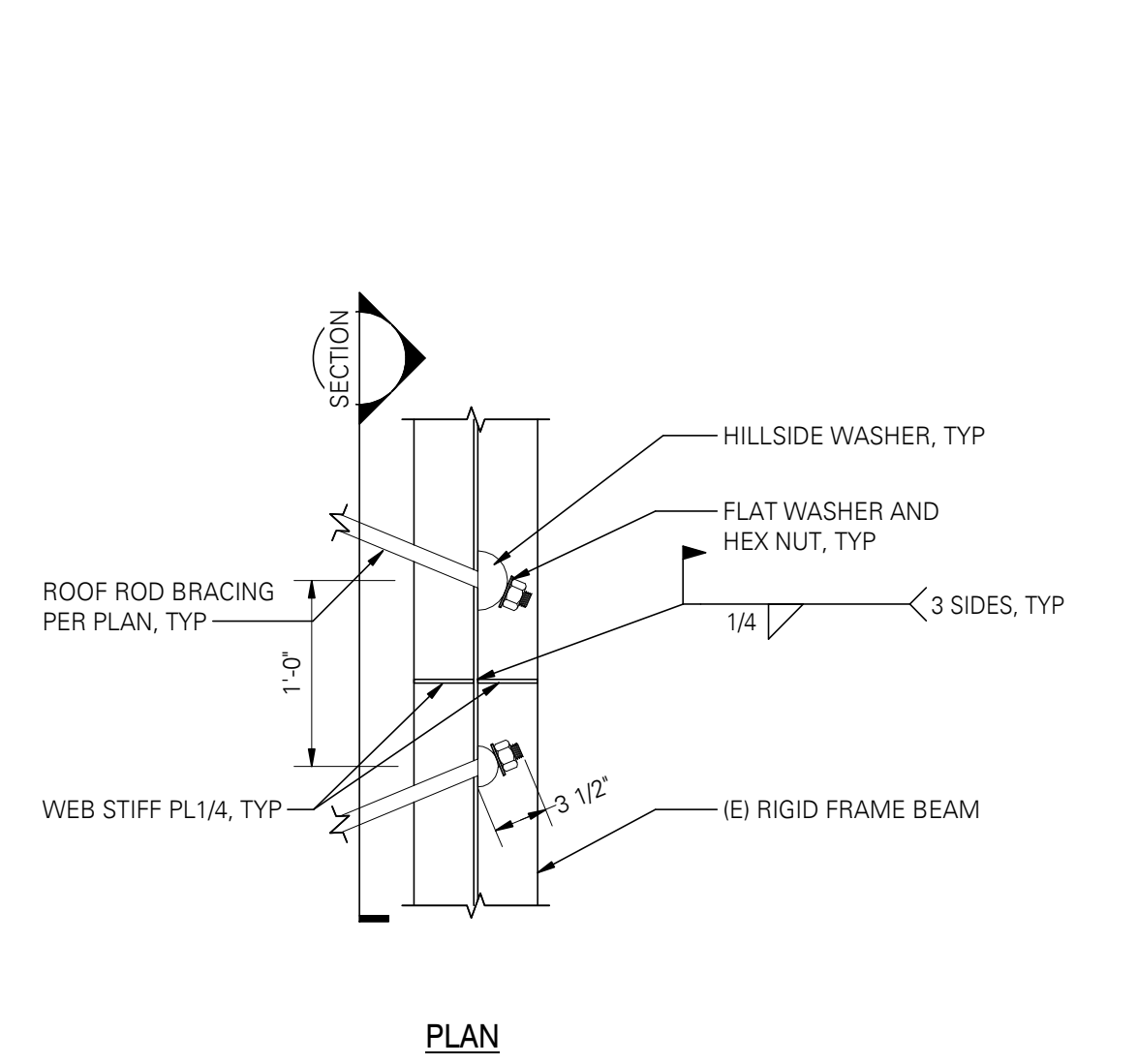
AWWU PLAN SET NO. 11173

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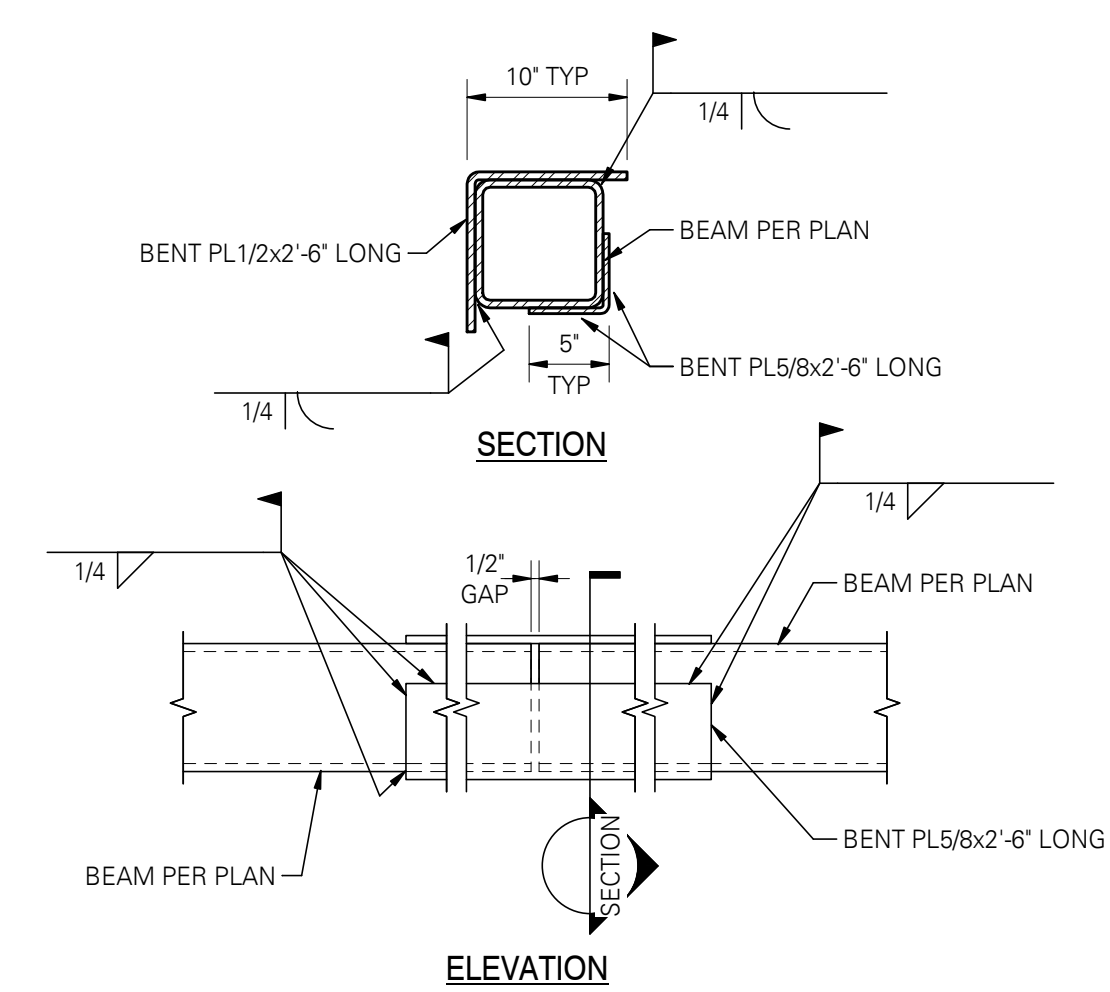
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4 ROOF DECK TO RIGID FRAME LATERAL LOAD PATH RETROFIT
SCALE: 3/4" = 1'-0"

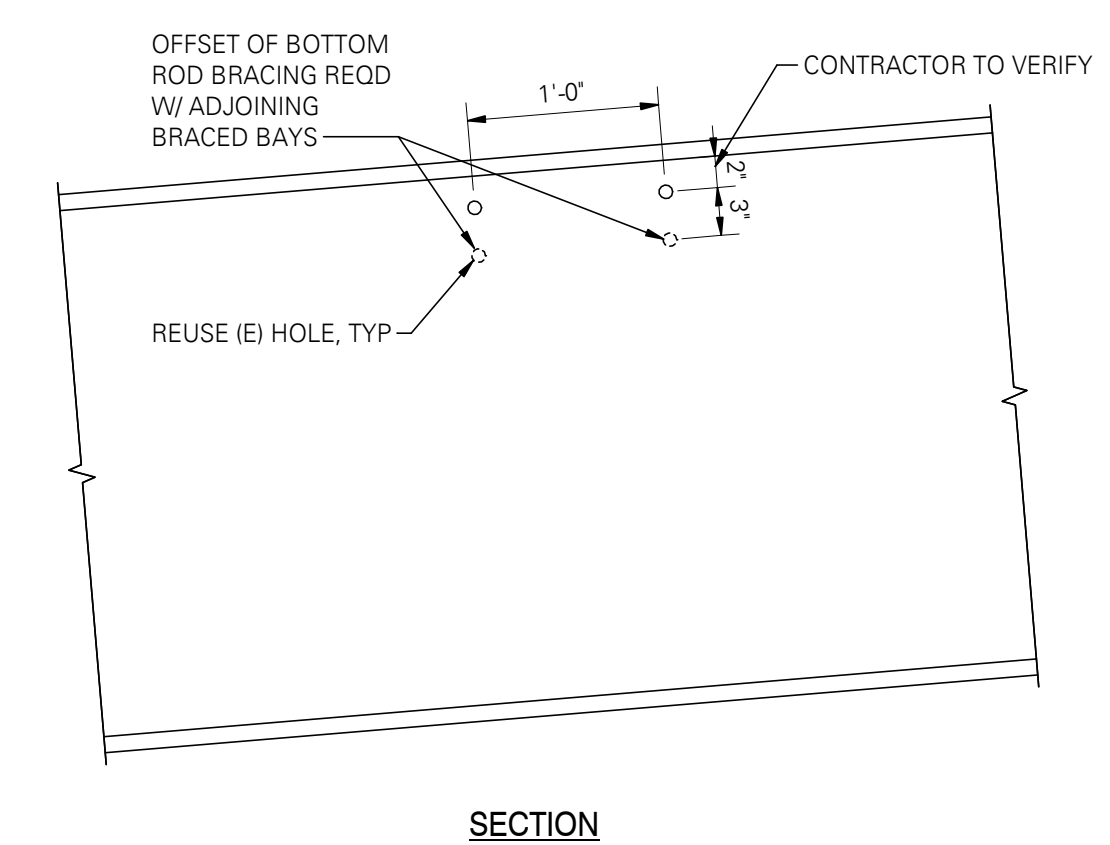


8 BRACED FRAME CONNECTION RETROFIT
SCALE: 3/4" = 1'-0"



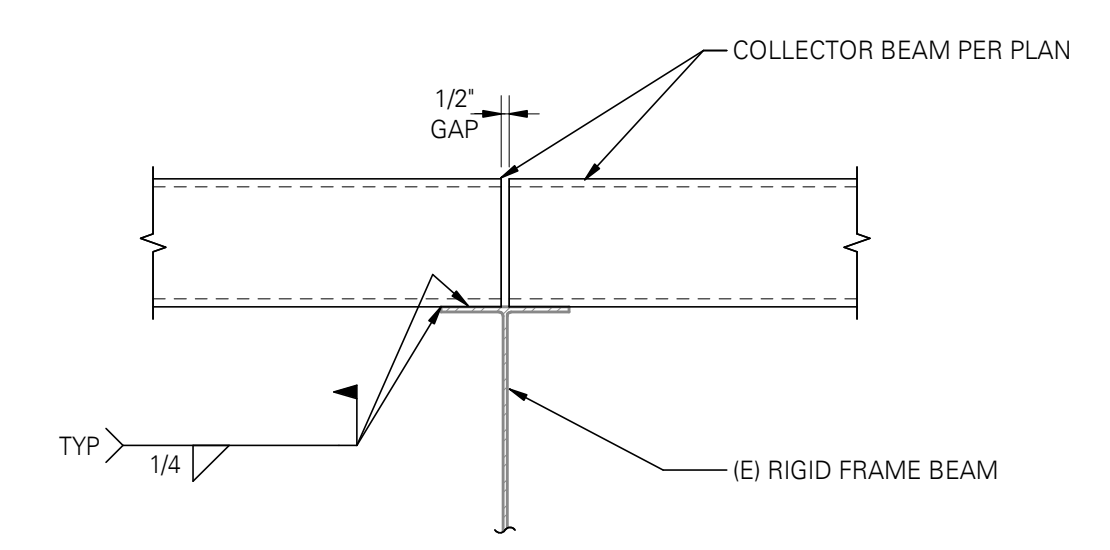
10 COLLECTOR BEAM SPLICE DETAIL
SCALE: 1" = 1'-0"

NOTE:
LOCATION OF SPLICE TO BE DETERMINED BY CONTRACTOR AS REQUIRED.



11 ROOF ROD BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"

NOTE:
CONTRACTOR TO DRILL HOLES TO ENLARGE FOR LARGER ROD BRACING WHERE REQD. TORCH CUTTING NOT ALLOWED



12 COLLECTOR BEAM TO EXISTING RIGID FRAME BEAM
SCALE: 1" = 1'-0"

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AWWU PLAN SET NO. 11173

VERIFY SCALE			THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING			IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY			FULL SIZE SCALE		
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
						1	05/2022	BDC RESPONSE RD 1	JLR		
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PLAN CHECK						REVISIONS					

RECORD DRAWING Note: To be filled out on original drawings upon project completion

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CONSULTANT

STATE OF ALASKA
 49th
 PAUL D. ROGNESS
 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 JUNE 2022

SEAL

ANCHORAGE WATER & WASTEWATER UTILITY
 AWWU
 MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY

ERWWTF SCHED B STRUCTURAL RETROFITS

STRUCTURAL BUILDING 2 DETAILS

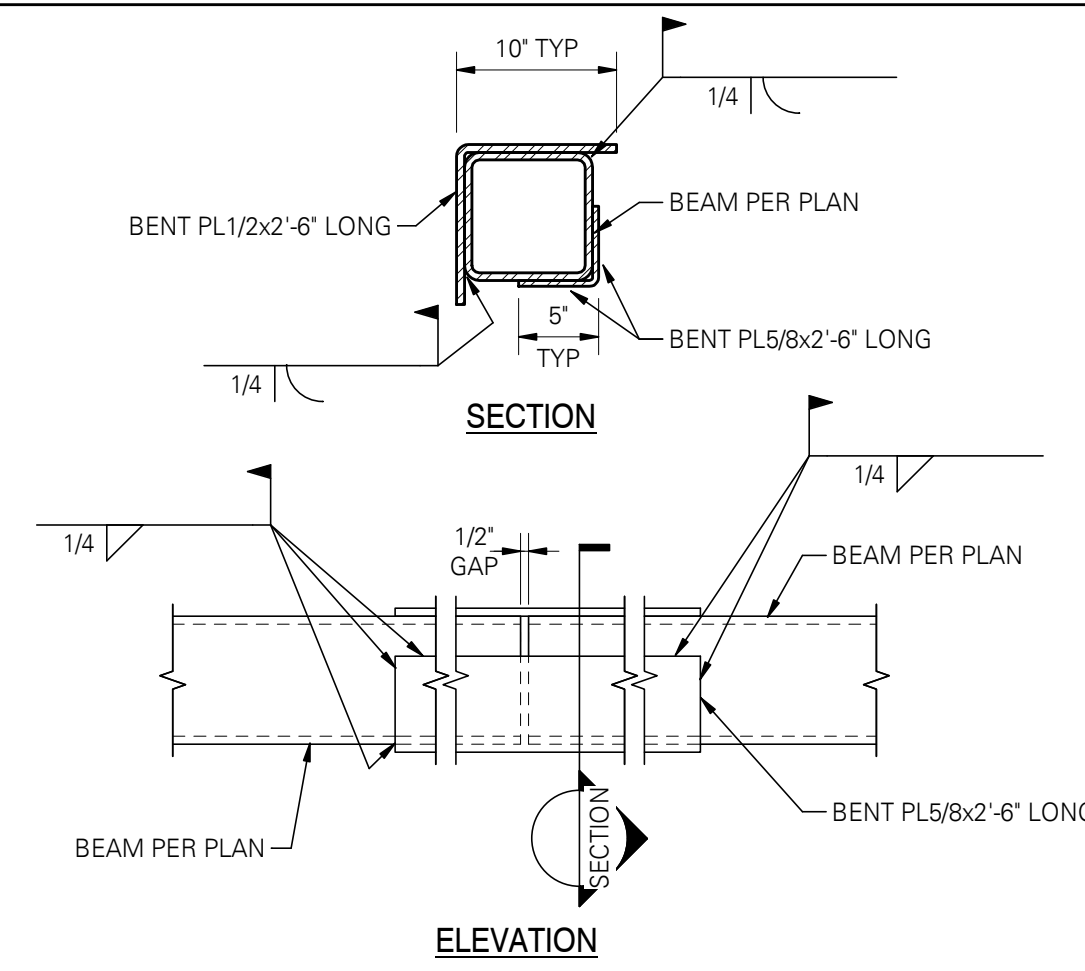
DATE: JUNE 2022 GRID: NW0150

PROJ. ID.: WM.00151

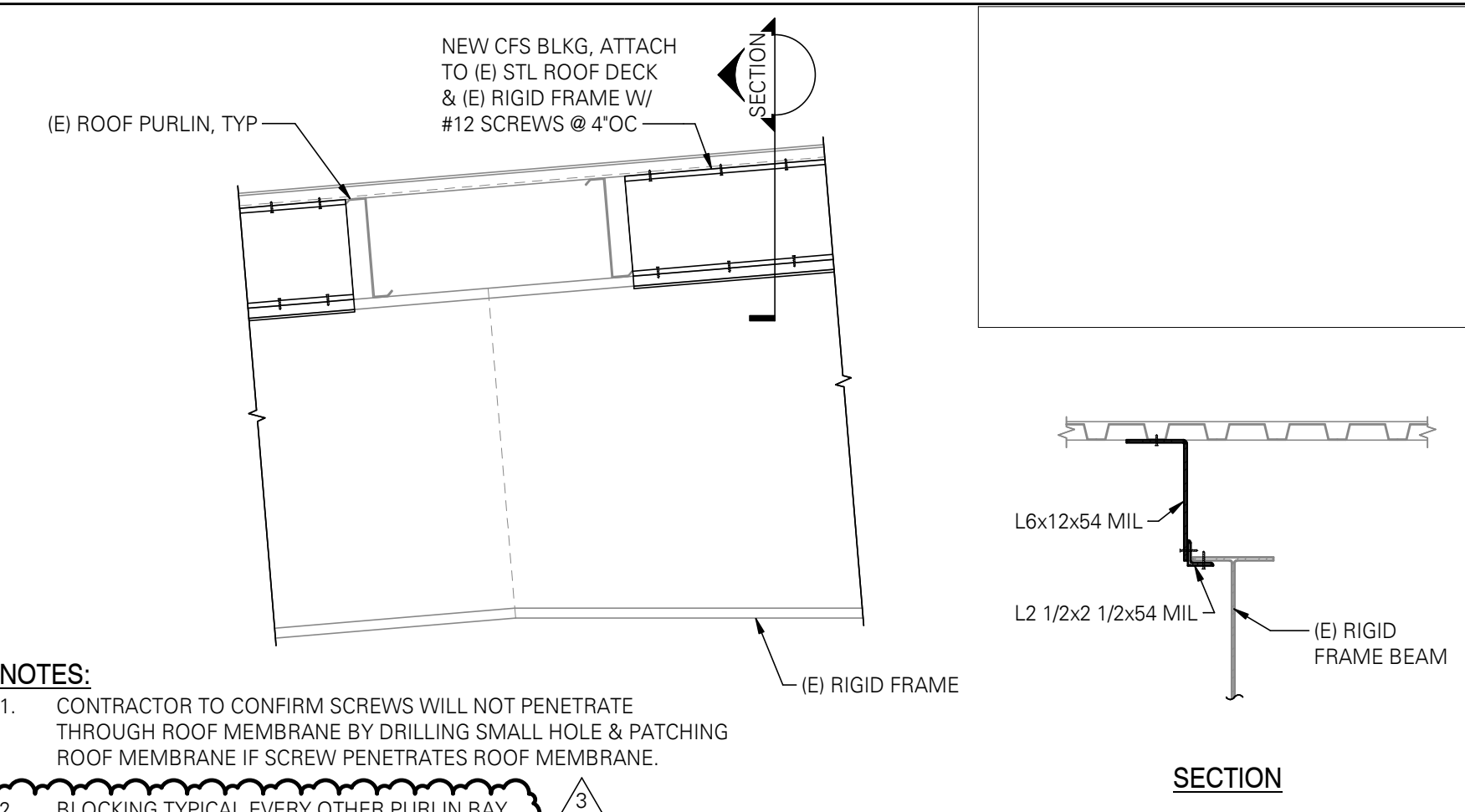
DWG S2.1AR

SHEET 23 of 24

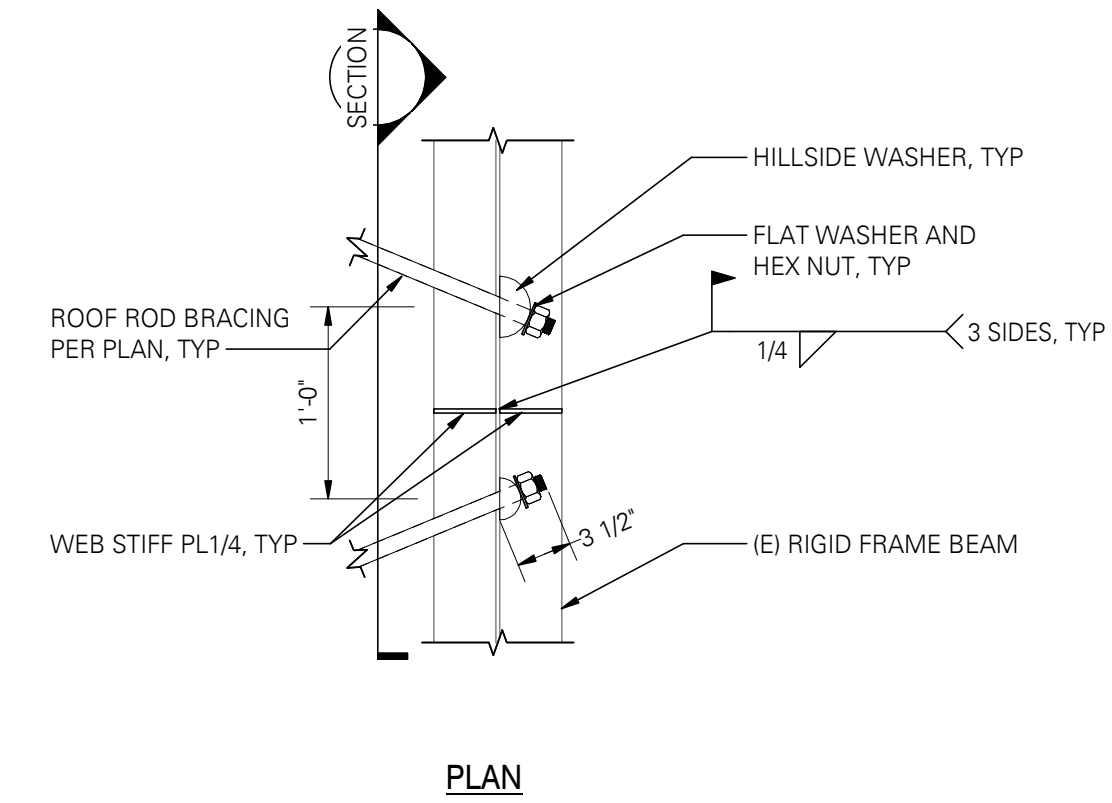
11/11/2022 2:35:08 PM \\dc-i-share\profiles\dhastings\Redirection_Folders\Desktop\TEMP\Struct-18101-0037-R2020 - Building 2_Resiliency.rvt



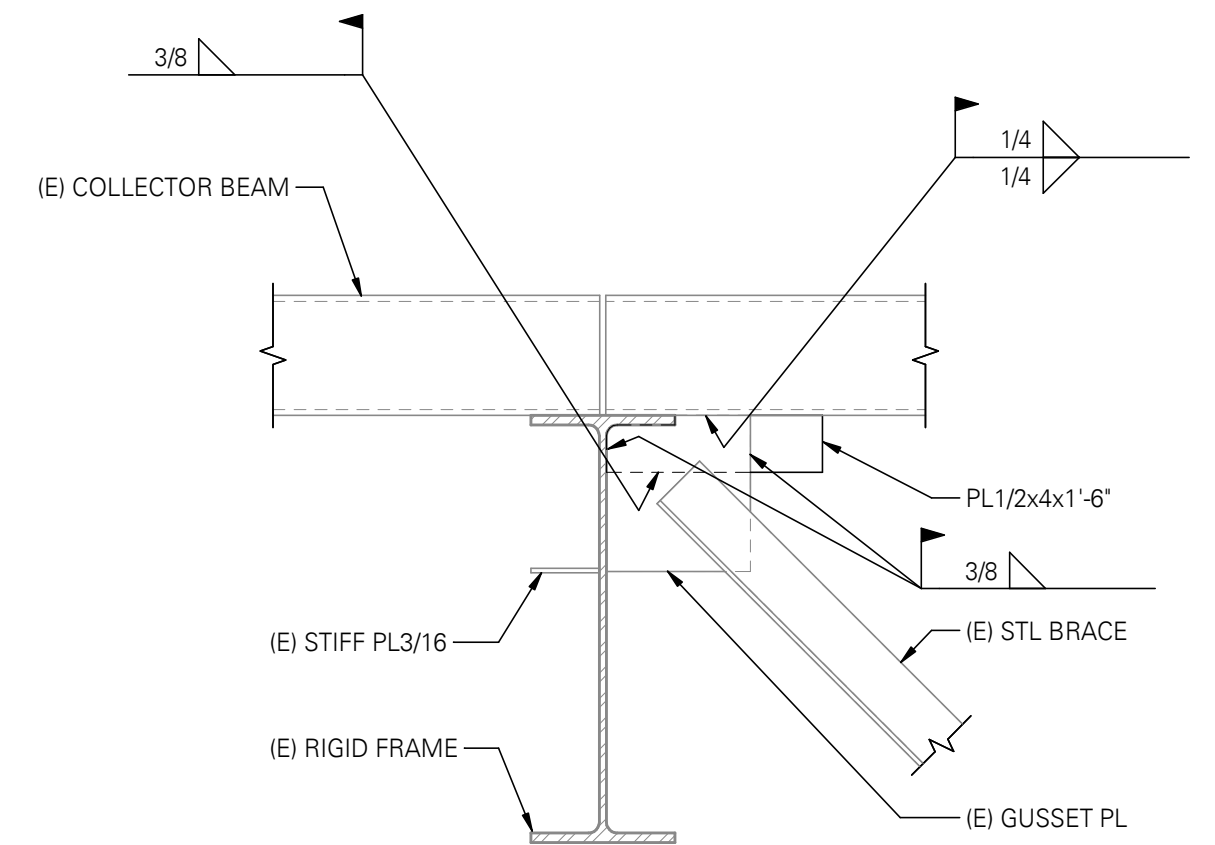
3 COLLECTOR BEAM SPLICE DETAIL
SCALE: 1" = 1'-0"



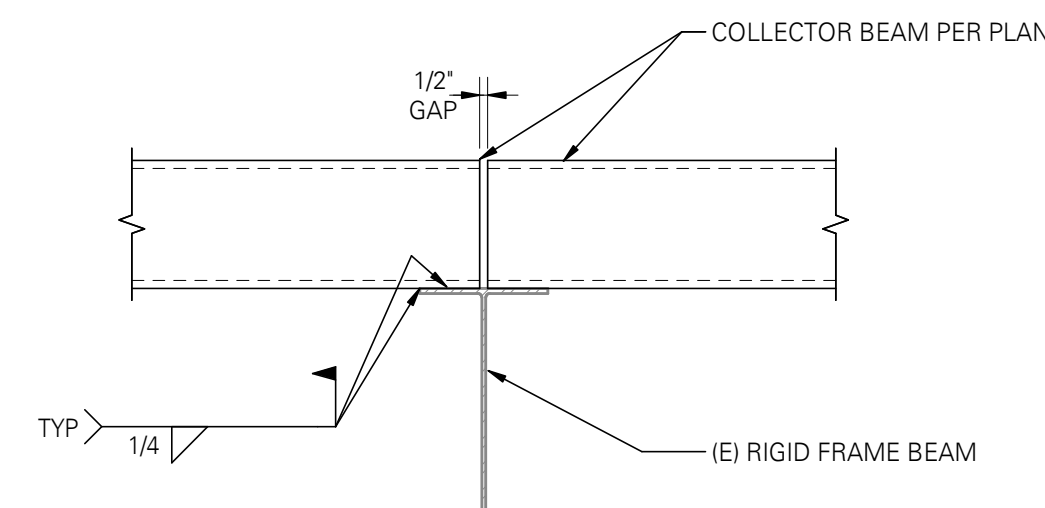
4 ROOF DECK TO RIGID FRAME LATERAL LOAD PATH RETROFIT
SCALE: 3/4" = 1'-0"



11 ROOF ROD BRACING TO EXISTING RIGID FRAME
SCALE: 1" = 1'-0"



8 BRACED FRAME CONNECTION RETROFIT
SCALE: 3/4" = 1'-0"



12 COLLECTOR BEAM TO EXISTING RIGID FRAME BEAM
SCALE: 1" = 1'-0"

PLOT DATE: 11/11/2022 2:36:10 PM

PAGE SETUP NAME:

ACAD FILE: \\dc-i-share\profiles\dhastings\Redirected_Folders\Desktop\TEMP\Struct-18101-0037-R2020 - Aeration Bldg_Resiliency.rvt

AWWU PLAN SET NO. 11173

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PLAN CHECK						REVISIONS					

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STATE OF ALASKA
 49th
 PAUL D. ROGNESSE
 No. SE13924
 REGISTERED PROFESSIONAL ENGINEER
 JUNE 2022

ANCHORAGE WATER & WASTEWATER UTILITY
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MUNICIPALITY OF ANCHORAGE
 WATER & WASTEWATER UTILITY
 ERWWTF SCHED B STRUCTURAL RETROFITS
 STRUCTURAL AERATION BUILDING DETAILS
 DATE: JUNE 2022 GRID: NW0150
 PROJ. ID.: WM.00151
 DWG S2.1BR
 SHEET 24 of 24

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