

METAL - STRUCTURAL STEEL

A. DESIGN, FABRICATION, AND ERECTION ARE TO BE GOVERNED BY THE LATEST REVISIONS OF THE FOLLOWING UNLESS NOTED OTHERWISE (U.N.O.):

1. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10).
2. AISC CODE OF STANDARD PRACTICE (CONTRACTOR SHALL SUBMIT STEEL SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION).
3. AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A440 BOLTS (ALLOWABLE STRESS DESIGN).
4. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1.

B. MATERIALS:

1. WIDE FLANGE AND WT SHAPES SHALL BE ASTM A992, FY = 50 KSI, U.N.O.
2. ALL OTHER HOT-ROLLED SHAPES SHALL BE ASTM A36, FY = 36 KSI, U.N.O.
3. STEEL PIPES SHALL BE ASTM A53, TYPE-S (SEAMLESS) GRADE B, U.N.O.
4. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE B, U.N.O.
5. PLATES AND BARS SHALL BE ASTM A36, U.N.O.

C. BOLTS

1. ALL BOLTS SHALL BE ASTM A325 HIGH STRENGTH WITH HARDENED WASHERS AND HEAVY HEX NUTS U.N.O.
2. ALL BOLT HOLES SHALL BE 1/16" LARGER THAN THE BOLT DIAMETER U.N.O.

D. CONNECTIONS:

1. ALL CONNECTIONS SHALL BE SHOP WELDED AND FIELD BOLTED U.N.O.

E. WELDS

1. ALL WELDS SHALL BE WITH E70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1. USE HIGHER STRENGTH ELECTRODE IF REQUIRED BY AWS D1.1 (ALL WELDING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS).
2. MINIMUM SIZE OF FILET WELD SHALL BE 3/16" U.N.O.
3. SEAL WELD AROUND ALL WELDED CONNECTIONS WHERE WELDING IS NOT INDICATED TO PROVIDE WATERTIGHT CONNECTION.

F. COATINGS

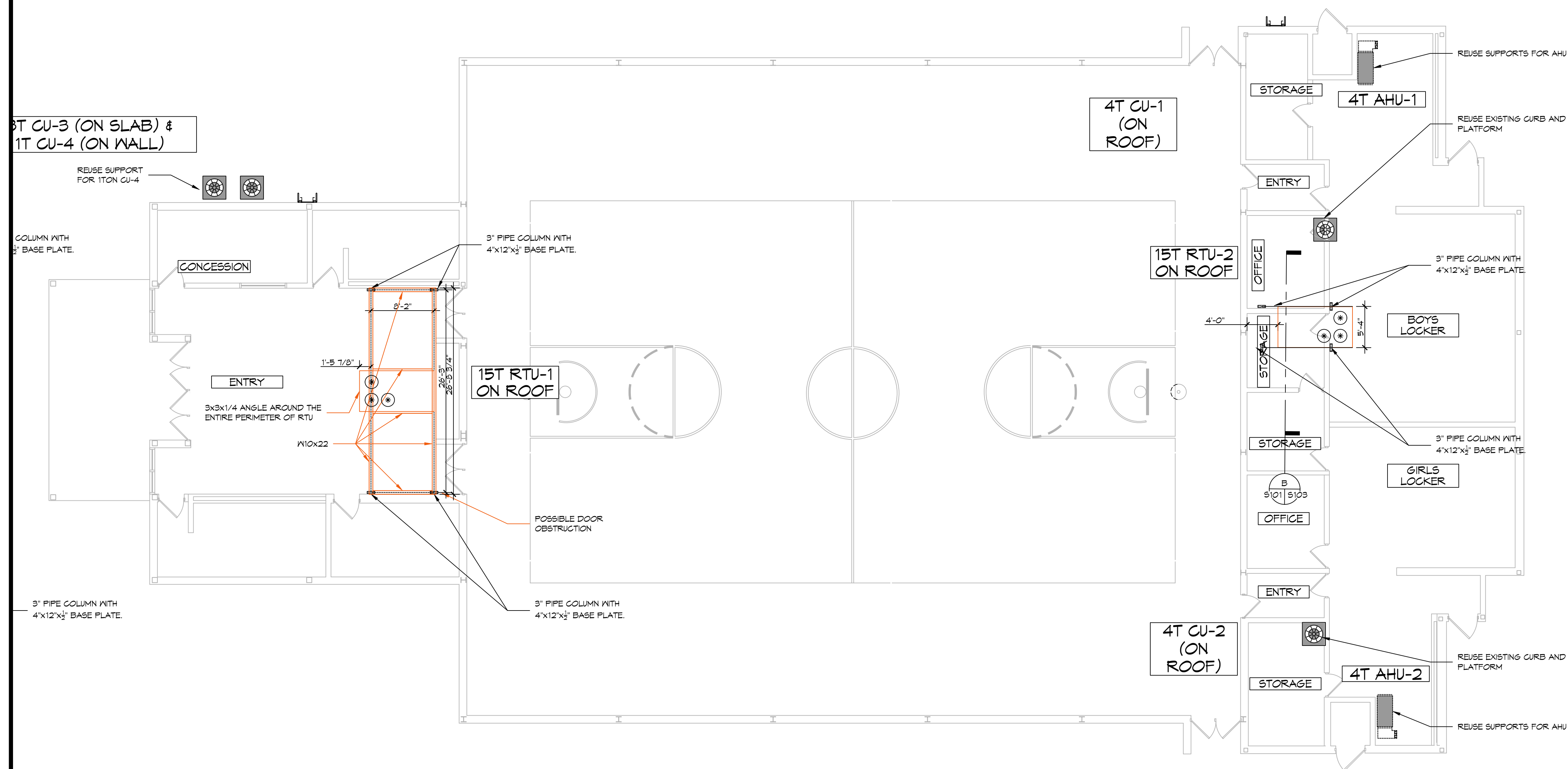
1. ALL STEEL SHALL BE SHOP PRIMED IN ACCORDANCE WITH THE STRUCTURAL STEEL FRAMING SPECIFICATION.
2. ALL EXPOSED STEEL SHALL BE PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS.
3. AFTER ERECTION CONTRACTOR SHALL "TOUCH UP" WITH PAINT ALL ABRASED AREAS.

G. FIELD QUALITY CONTROL

1. INSPECTION OF FIELD ASSEMBLIES IN ACCORDANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS. INSPECTION SHALL INCLUDE APPROVAL OF PROCEDURE FOR CALIBRATION OF WRENCHES AND INSTALLATION OF BOLTS.

H. MISCELLANEOUS

1. SEAL ENDS OF OPEN MEMBERS SUCH AS PIPES AND TUBES WITH 1/8" THICK PLATE & 1/8" SEAL WELDS UNLESS SPECIFICALLY NOTED OTHERWISE.



AS-BUILT

1 STRUCTURAL PLAN
SCALE: 1/8" = 1'-0"

DAMMON ENGINEERING, INC.
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REVISIONS	DATE
1 REVISION R102	2/1/2024



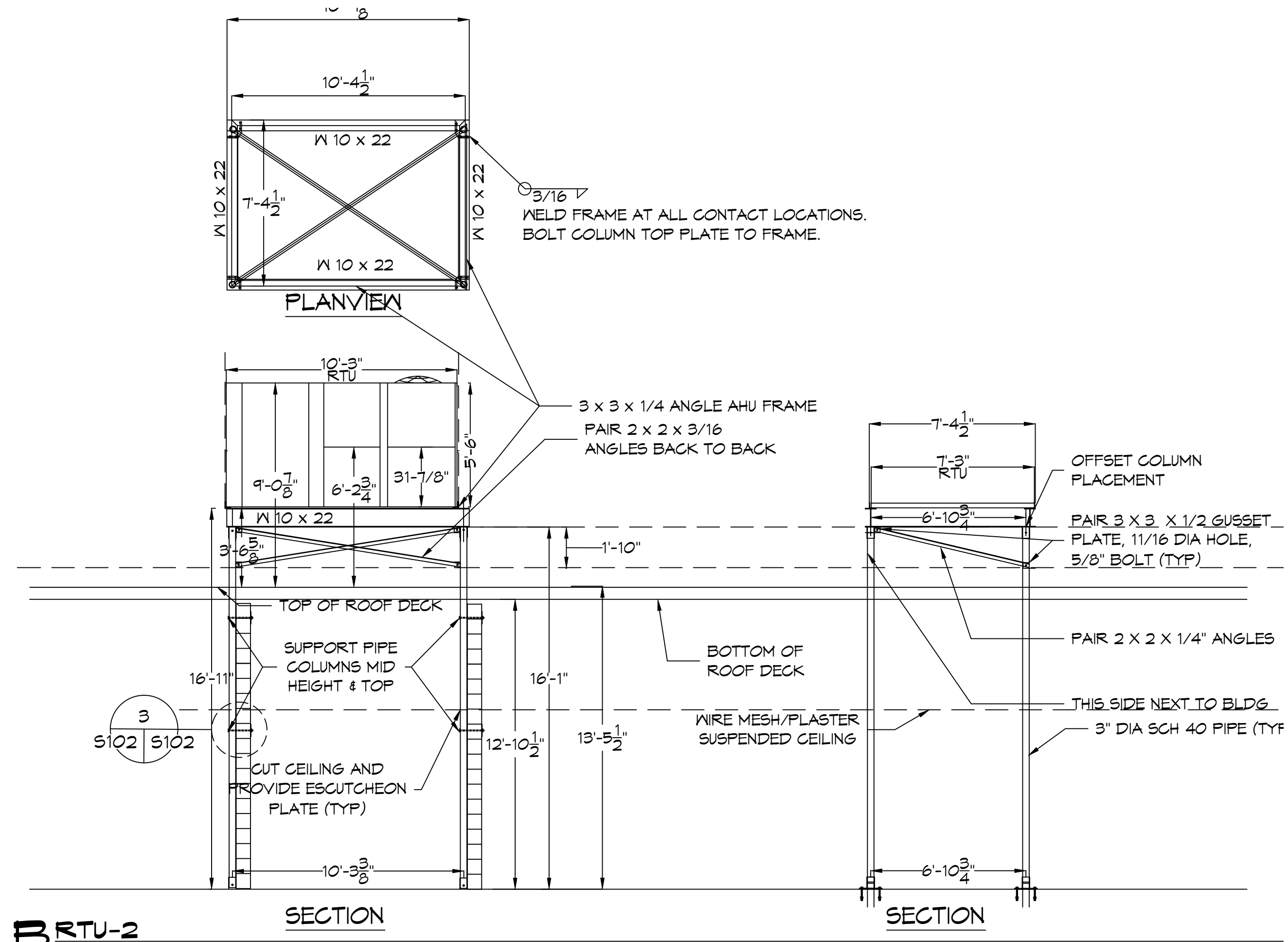
MECHANICAL RENOVATIONS
BOYET JUNIOR HIGH SCHOOL

12-2-2023
DATE: 2/1/2024
JOB No: 2468
DRAWN BY: CND
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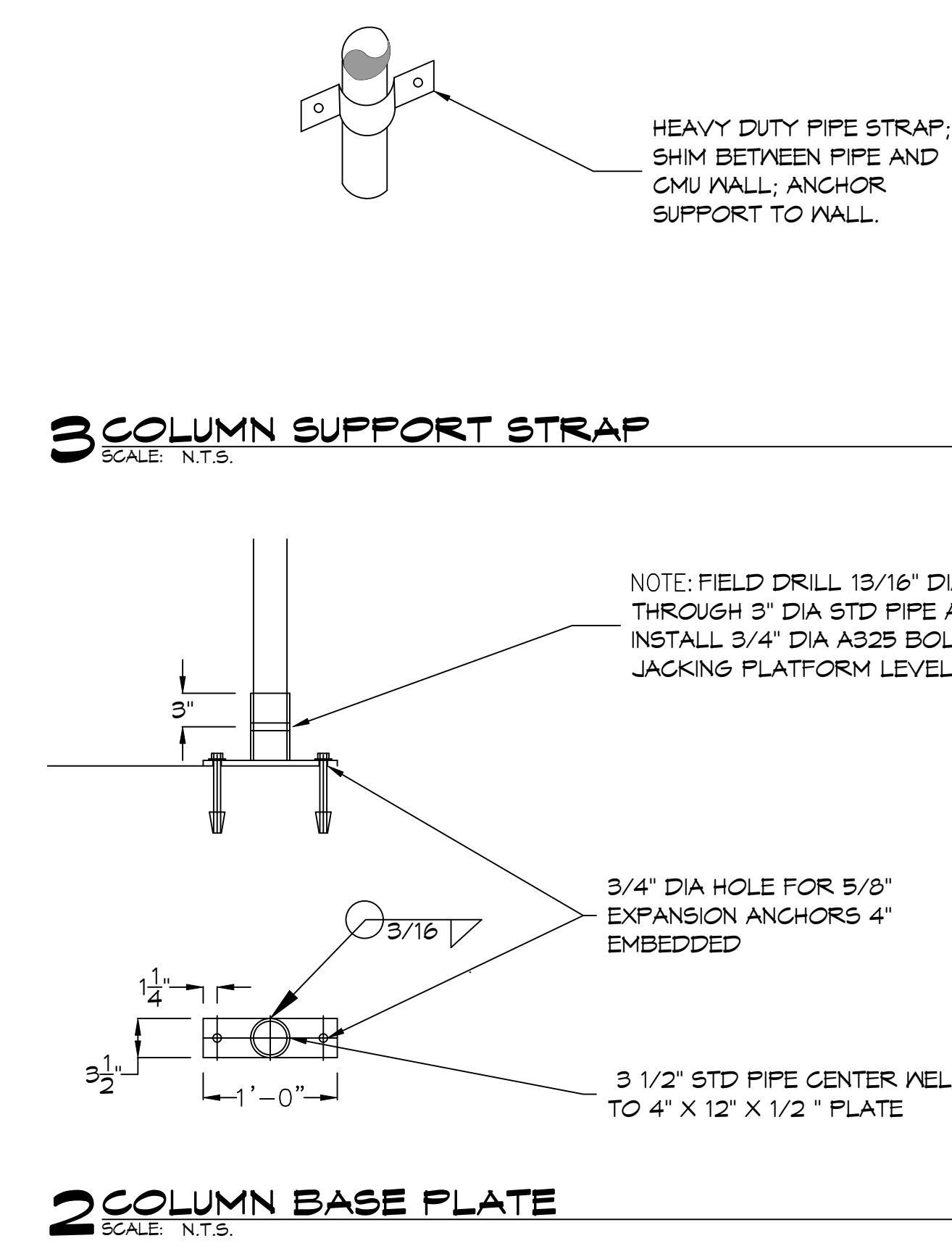
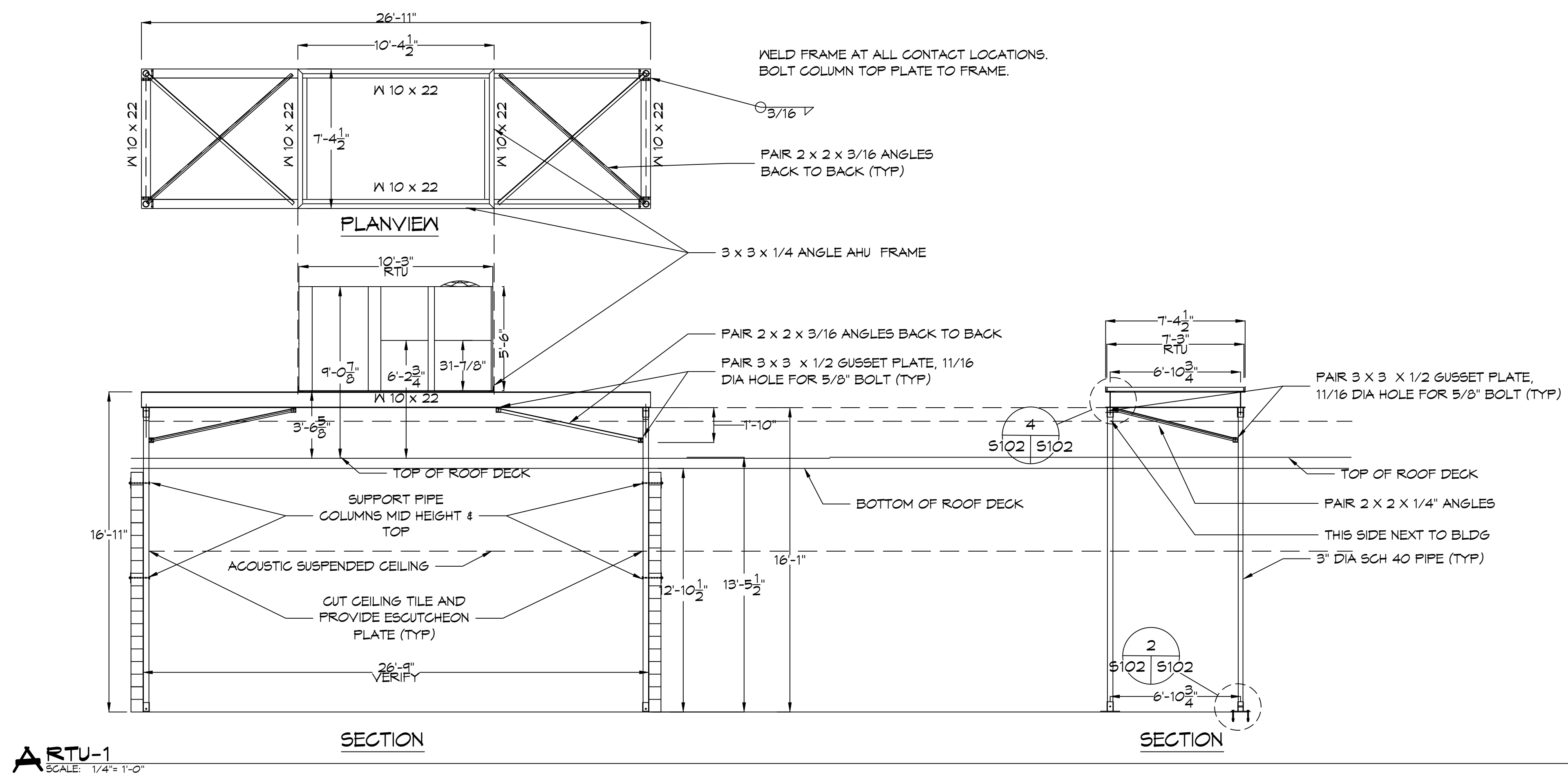
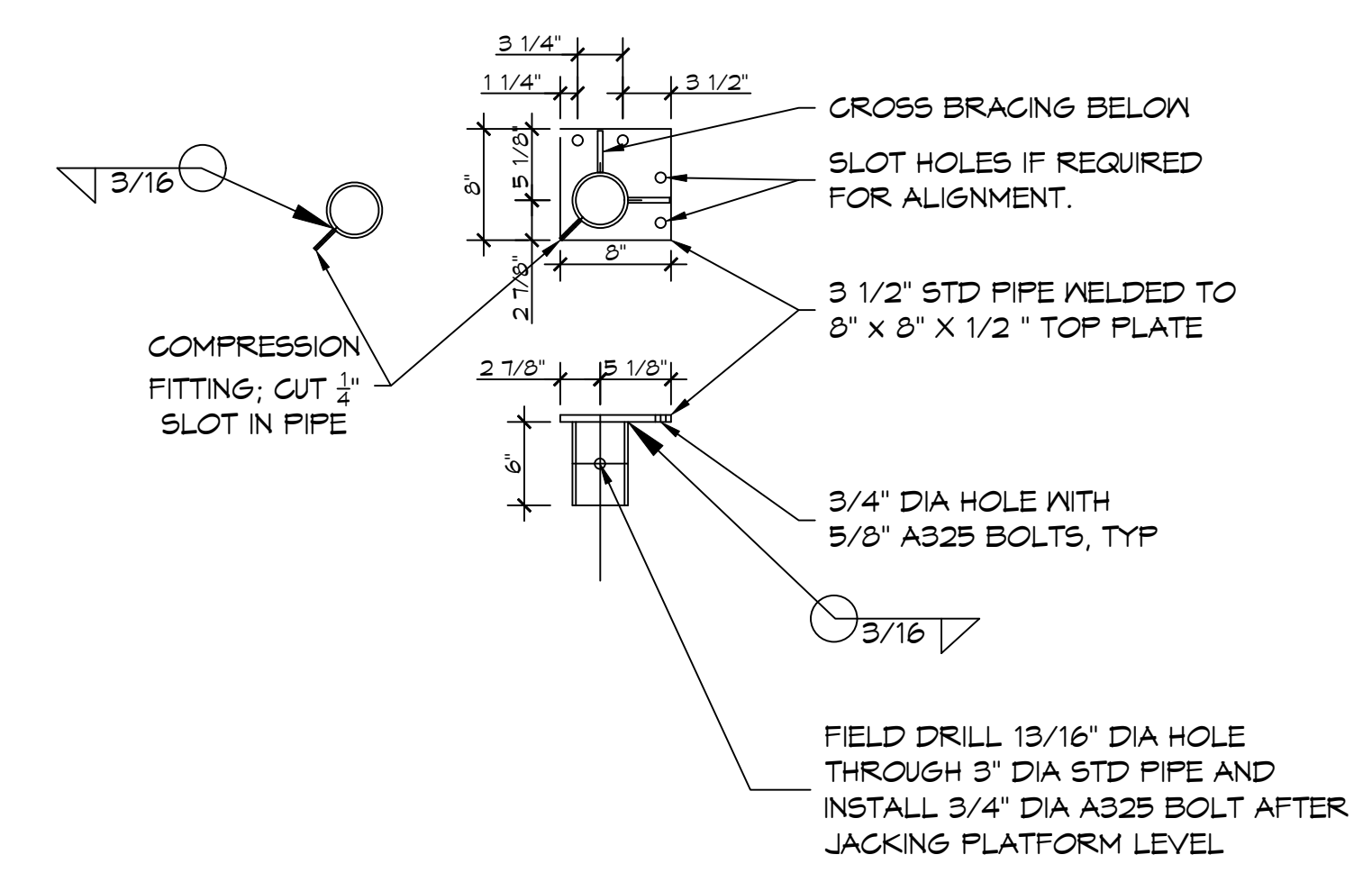
SHEET TITLE:
STRUCTURAL PLAN

DRAWING NUMBER:
S101

SHEET No: 3 of 9



AS-BUILT



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REVISIONS	DATE
1	2/17/2024
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MECHANICAL RENOVATIONS
BOYETT JUNIOR HIGH SCHOOL

2468 DATE: 12-29-2023
DRAWN BY: BAW
CHECKED BY: BAW

Scale: Slidell, LA, 70461
JOB No: 2468
DATE: 12-29-2023

SHEET TITLE: STRUCTURAL DETAILS

DRAWING NUMBER: **S102**

SHEET No: 4 of 9

SPLIT SYSTEM DX SCHEDULE - SIXTH WARD																					
TAG	AREA SERVED	Make	Model	Nominal Tonnage	Total CFM	OA CFM	External SP (W/C)	FAN				COOLING				HEAT				REMARKS	
								QTY	HP	TMBH	SMBH	EDB	EWH	MERV-6	KW	STEPS	VAC	PH	Hz		MCA
AHU-1	Boys Locker Room	Carrier	FJ4DNX48L00	4	1420	340	0.3	1	1/3	60	41	MERV-6	9.6	1	208	3	60	30.9	17.8	1, 2, 3, 4	
AHU-2	Girls Locker Room	Carrier	FJ4DNX48L00	4	1420	300	0.3	1	1/3	60	41	MERV-6	9.6	1	208	3	60	30.9	17.8	1, 2, 3, 4	

- NOTES:
- Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
 - Install units in accordance with manufacturer's recommendations.
 - Provide controls per attached drawings and specifications.
 - Provide new filters after commissioning and final acceptance.

MINI-SPLIT SCHEDULE															
Tag	Make	Model	Cooling (MBH)	Heating (BTU/H)	Power (VAC/PH)	Remarks	HEAT PUMP				MCA	Remarks			
							Model	Make/Model	Power (VAC/PH)	MCA					
MS-1	Carrier	40MBCQ36-3	36	40	208/1		CU-3	Carrier	38MRCO36AA3	208/1	30	1, 2, 4			
MS-2	Carrier	40MAHBQ18A3	24	12.6	208/1	1, 2, 3	CU-4	Carrier	38MARQ24AA3	208/1	25	1, 2, 3			

- NOTES:
- Install per Manufacturer's recommendations.
 - Provide new filters after commissioning and final acceptance.
 - Furnish with condensate pump removal kit and pan "Safe-T" float switch.
 - Provide concrete equipment pad for Heat Pump.

DIFFUSER SCHEDULE			
Mark No.	Service	Neck Size	Description
A	Supply Air	Ref. Plan	Krueger DPL Adjustable Drum Register with Opposed Blade Damper
B	Supply Air	Ref. Plan	Price 620D Double Deflection Register with Damper
C	Return Air	Ref. Plan	Price 630D Louver Return with Damper

1. Coordinate with Architect / Owner for colors and finish.

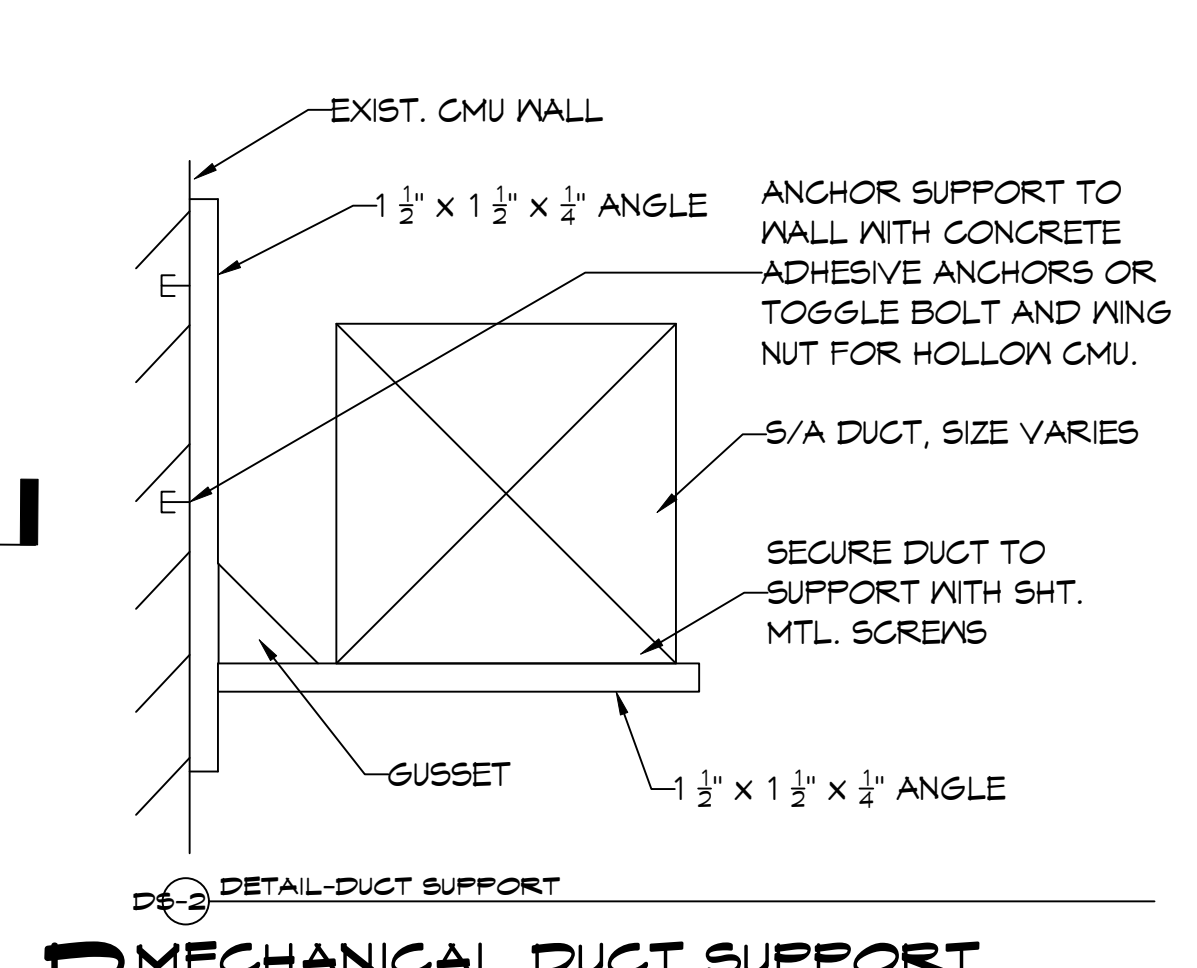
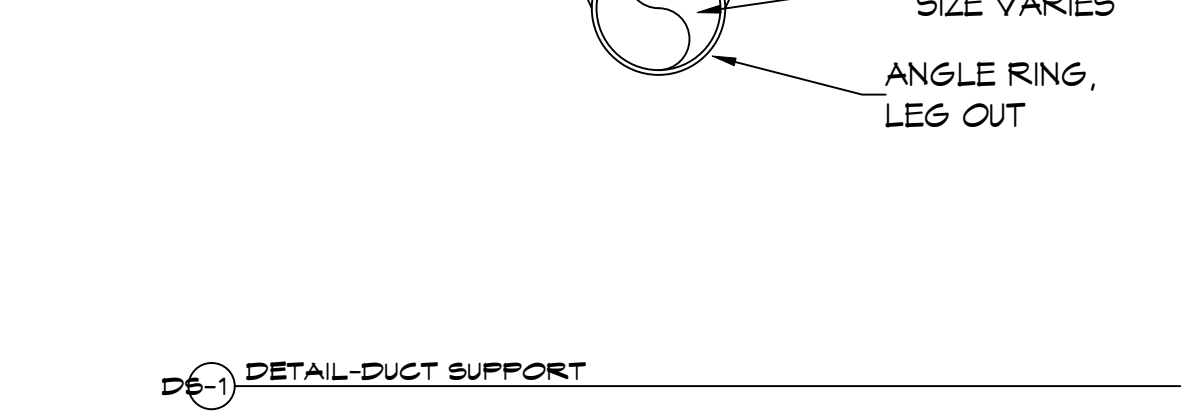
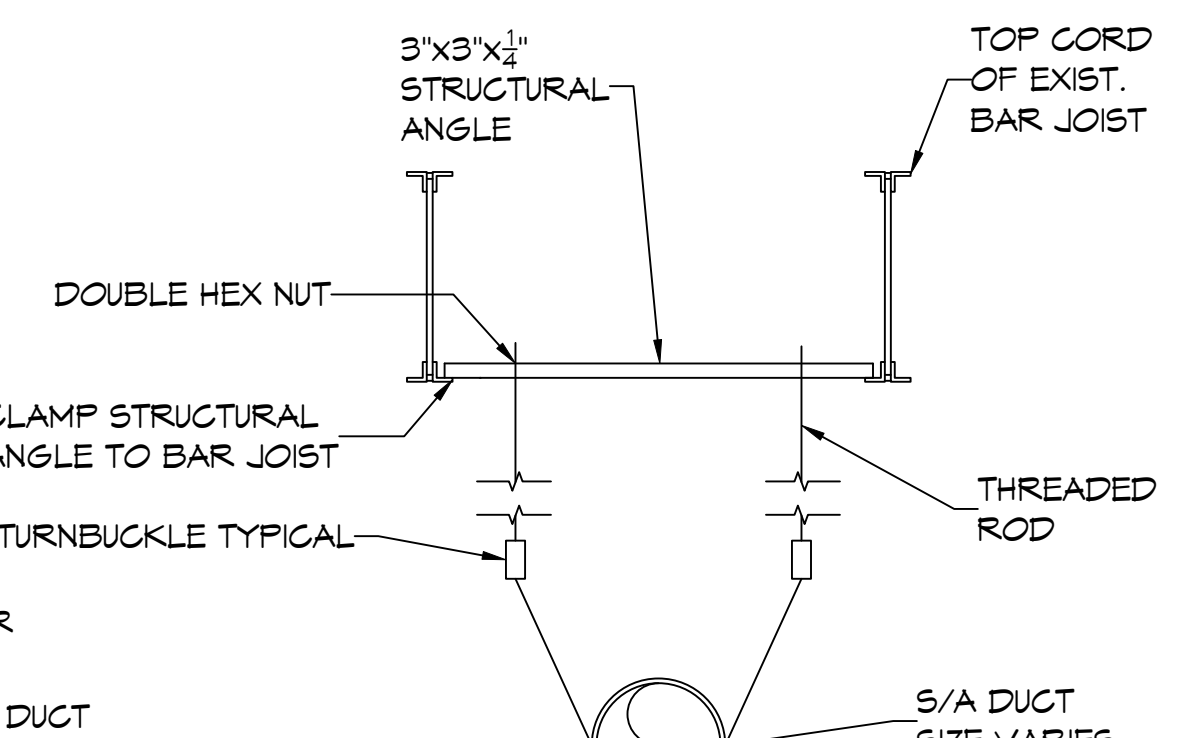
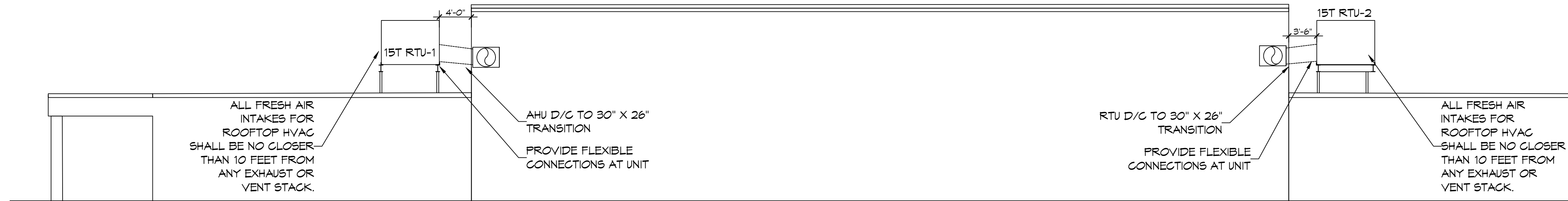
PACKAGED A/C SCHEDULE - Boyet																						
TAG	AREA SERVED	Make/Model	Model / Size	Nominal Tonnage	Total CFM	OA CFM	External SP (W/C)	FAN				COOLING				FILTERS				POWER	REMARKS	
								QTY	HP	TMBH	SMBH	EDB	EWH	MERV-8	MERV-8	MERV-8	VAC	PH	Hz			MCA
RTU-1	Gym	Carrier	50FC-M16A3A5	15	6900	2680	0.6	2	3	200.7	125.9	83.5	71.1	MERV-8	MERV-8	MERV-8	208	3	60	72	1, 2, 3, 4	
RTU-2	Gym	Carrier	50FC-M16A3A5	15	6900	2680	0.6	2	3	200.7	125.9	83.5	71.1	MERV-8	MERV-8	MERV-8	208	3	60	72	1, 2, 3, 4	

- NOTES:
- Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
 - Install units in accordance with manufacturer's recommendations.
 - Provide controls per attached drawings and specifications.
 - Provide new filters after commissioning and final acceptance.

THERMOSTAT NOTES

- ALL NEW RTU'S, AHU'S & MINI SPLITS SHALL HAVE NEW STAND ALONE DIGITAL THERMOSTAT WITH A LOCKABLE HOUSING AROUND THE THERMOSTAT. EACH THERMOSTAT SHALL HAVE AUTOMATIC CHANGE OVER COOL/HEAT.
- FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.

- GENERAL NOTES**
- CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
 - EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT WRAP, MIN R-6. INSTALLED PER SMACNA STANDARDS AND SPECIFICATIONS.
 - DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
 - IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
 - CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
 - ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
 - ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
 - REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 - FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
 - ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
 - FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
 - PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
 - PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.



MECHANICAL LEGEND

(T) THERMOSTAT
 D# DUCT SUPPORT
 S# SUPPLY DUCT
 VD# DAMPER CONTROL

CFM	SIZE	MK
ROUND FLEX DUCT, MAX. LENGTH 16'-0", MIN. R-6. DUCT SIZE AS FOLLOWS:		
- 250 CFM TO 350 CFM = 9"		
- 200 CFM TO 250 CFM = 8"		
- 150 CFM TO 200 CFM = 7"		
- 100 CFM TO 150 CFM = 6"		

BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

DRAWN DIAGRAMMATICALLY FOR CLARITY. FIELD VERIFY PLACEMENT OF ALL EQUIPMENT

AS-BUILT

MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

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MECHANICAL RENOVATIONS
BOYET JUNIOR HIGH SCHOOL
 12-25-2025
 DATE: 2/17/2024
 CHECKED BY: [Signature]
 SHEET TITLE: MECHANICAL PLAN
 DRAWING NUMBER: **M101**
 SHEET No: 6 of 9

