VICINITY MAP

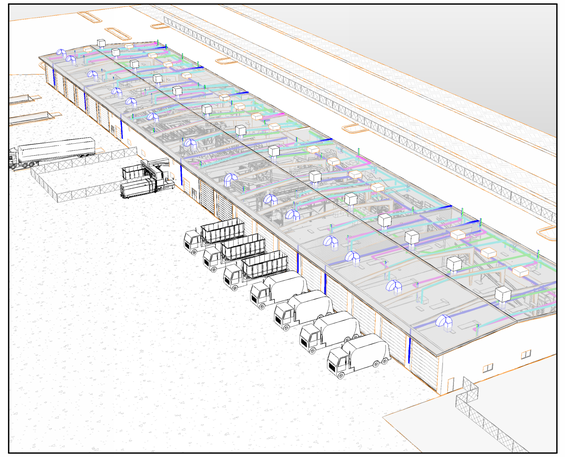


TRUE NORTH

CITY OF GRAND JUNCTION
MATERIALS RECOVERY FACILITY
365 32 RD, GRAND JUNCTION, CO 81520
BG+co. PROJECT # 25034

02/02/2026	BID PACKAGE 1 - DEMO, FOUNDATIONS, STRUCTURAL MODIFICATIONS AND OPENINGS, PITS, HVAC, PLUMBING, LIGHTING, POWER, FIRE PROTECTION
MM/DD/YYYY	BID PACKAGE 2 - OFFICE SPACES, VIEWING PLATFORM, BATHROOMS, SITE ALTERATIONS, FINAL CDS

CONSTRUCTION DOCUMENTS
BID PACKAGE 01
ARCHITECTURAL / STRUCTURAL / MECANICAL / PLUMBING / ELECTRICAL / FIRE PROTECTION



PROJECT DESIGN TEAM

ARCHITECTURE:
BG+co.
Architecture
Interior Design
Project Management
622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office
BLYTHE GROUP + co.

STRUCTURAL ENGINEERING:
HCL ENGINEERS • SURVEYORS • ARCHITECTS

MECHANICAL / PLUMBING / ELECTRICAL ENGINEERING:
BIG HORN CONSULTING ENGINEERS, CO

FIRE PROTECTION ENGINEERING:
Shaner Life Safety

PROJECT ALTERNATES

ALTERNATE 1: MECHANICAL EVAC COOLERS

BASE BID:
EXISTING EVAC COOLERS TO REMAIN. REMOVE EXISTING DUCT AND REPLACE WITH NEW. [REF MECH]

ALTERNTE:
REMOVE EXISTING EVAPORATIVE COOLERS. PATCH EXISTING ROOF PENETRATION AS REQUIRED AFTER REMOVAL. REFERENCE MECHANICAL DRAWINGS AND REFLECTED CEILING PLAN FOR NEW LOCATIONS OF EVAPORATIVE COOLERS.

MATERIALS LEGEND

- EXISTING CONSTRUCTION
- ASPHALT PAVING (SECTION)
- EARTH (PLAN & SECTION)
- GRANULAR FILL (SECTION)
- STRUCTURAL FILL (SECTION)
- SAND (SECTION)
- CONCRETE (PLAN & SECTION)
- BRICK VENEER (SECTION)
- CONCRETE MASONRY UNITS (CMU) (PLAN & SECTION)
- PRECAST CONCRETE (SECTION)
- MORTAR NET (SECTION)
- STEEL (SECTION)
- WOOD BLOCKING (CONTINUOUS) (SECTION)
- WOOD BLOCKING (INTERMITTENT) (SECTION)
- WOOD SHEATHING
- WOOD (FINISH) (SECTION & ELEVATION)
- INSULATION (FIBROUS) (PLAN & SECTION)
- INSULATION (RIGID) (PLAN & SECTION)
- STUCCO (SECTION)
- STUCCO (ELEVATION)
- GYPSUM WALL BOARD (GWB) (REFLECTED CEILING PLAN)

NOTE: SOME MATERIALS SHOWN MAY NOT BE USED ON THIS PROJECT.

SYMBOLS LEGEND

ROOM TAG — ROOM NAME A202A
DOOR TAG — D220A
ASSEMBLY TAG — 27
NEW COLUMN GRID LINE — 0
EXISTING COLUMN GRIDLINE — 0
KEY NOTE — ?
WINDOW / FRAME TYPE — #
DRAWING REFERENCE — 1 / A1-1 — VIEW NAME — 1/8" = 1'-0"
BUILDING SECTION INDICATOR — ELEVATION OR DETAIL NUMBER 00 / SHEET THAT DETAIL IS ON A0-00 — SIM — POINTS IN DIRECTION OF DETAIL
WALL SECTION INDICATOR — ELEVATION OR DETAIL NUMBER 00 / SHEET THAT DETAIL IS ON A0-00 — SIM — POINTS IN DIRECTION OF DETAIL
SIGN TAG — ID type
ELEVATION INDICATOR — Name / Elevation
DIMENSION LINES — 1"
NEW CONTOUR — ####'
EXISTING CONTOUR — ####'
HIDDEN LINE
OVERHEAD OBJECT
CENTER LINE
MATCH LINE
LIMITS OF CONSTRUCTION
DEMOLISHED ITEMS

ABBREVIATIONS

AC	APPLIANCE CABINET
ACT	ACOUSTIC CEILING TILE
ADD-X	ADDENDUM NO. X
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
ALT-X	ALTERNATE NO. X
AM	ACOUSTIC CEILING MATERIAL (BAFFLE / PANEL)
AM-X	ACOUSTIC MATERIAL TYPE X
AP	ACOUSTIC WALL PANEL
ARCH	ARCHITECT / ARCHITECTURAL
ATH	ATHLETIC FLOORING
ATTEN	ATTENUATION
AVE	AVENUE
AVG	AVERAGE
B	DRAWER-DOOR BASE CABINET
BG	BUMPER GUARD
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
B.O.	BOTTOM OF
C/L	CENTER LINE
CEM	CEMENT / CEMENTITIOUS
CG	CORNER GUARD
CJ	CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT(S)
CONC	CONCRETE
CONT	CONTINUOUS
CPT	CARPET
CTR	CENTER
D	DEEP / DEPTH
DB	DOOR BASE CABINET
DBL	DOUBLE
DEMO	DEMOLISH / DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA / Ø	DIAMETER
DIM(S)	DIMENSION(S)
DN	DOWN
DTL	DETAIL
DW	DISHWASHER
DWB	DRAWER BASE CABINET
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXT	EXTERIOR
F.O.	FACE OF
FAAB	FLUID APPLIED AIR BARRIER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OWNER
FC	FULL HEIGHT CABINET
FCO	FULL HEIGHT OPEN SHELF CABINET
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFIN	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PANEL
FTG	FOOTING
FURN	FURNISHING / FURNITURE
GA	GAGE
GALV	GALVANIZED
GL	GLAZING
GL-X	GLAZING TYPE X
GWB	GYPSUM WALL BOARD
H	HIGH / HEIGHT
HC	HANDICAPPED
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HANDRAIL
HVAC	HEATING VENTILATING & AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INCL	INCLUDED
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
L	LONG / LENGTH
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVT	LUXURY VINYL TILE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MC	MAIL SLOT CABINET
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NA	NOT APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO.	NUMBER
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OB	OPEN SHELF BASE CABINET
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
PC	POLISHED CONCRETE
PERF	PERFORATED
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PNT	PAINT
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PW	PADDED WALL (PANEL / PROTECTION)
QTY	QUANTITY
QTZ	QUARTZ
R	RADIUS
RCP	REFLECTED CEILING PLAN
REF	REFERENCE / REFER TO
REFR	REFRIGERATOR
REINF	REINFORCE (D) (ING)
REQD	REQUIRED
RES	RESILIENT
RF	RUBBER FLOORING
RSF	RESINOUS FLOOR
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
SB	SINK BASE CABINET
SC	SEALED CONCRETE
SCHED	SCHEDULE (D)
SECT	SECTION
SF	SQUARE FEET
SFT	STORE FRONT
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STL	STEEL
STN	STAIN
STRUCT	STRUCTURAL
SV	SHEET VINYL
T&G	TONGUE & GROOVE
TA	TOILET ACCESSORY
TB	TRASH BASE CABINET
TL	TILE
T.O.	TOP OF
TEMP	TEMPORARY
TV	TELEVISION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCG	VINYL COVERED GYPSUM
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VFY	VERIFY
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
W	WIDE / WIDTH
WB	WALL BASE
WC	WALL CABINET
WCR	WALL CORNER CABINET
WM	WALL MICROWAVE CABINET
WO	WALL OPEN SHELF CABINET
WP	WALL PROTECTION
WR	WALL REFRIGERATOR CABINET
WST	WAINSCOT
WT	WINDOW TREATMENT
WD	WOOD (PLANK / TRIM / BASE / CEILING)

DRAWING INDEX

GENERAL INFORMATION SHEETS
G0-1 TITLE SHEET
G1-1 LIFE SAFETY PLAN

ARCHITECTURAL SHEETS
SURVEY TOPOGRAPHIC SURVEY
AD1-1 DEMOLITION FLOOR PLAN - OVERALL
AD1-1A DEMOLITION FLOOR PLAN - AREA A
AD1-1B DEMOLITION FLOOR PLAN - AREA B
AD1-1C DEMOLITION FLOOR PLAN - AREA C
AD1-1D DEMOLITION FLOOR PLAN - AREA D
AD2-1 DEMOLITION BUILDING SECTIONS AND DETAILS
A1-1 RENOVATION FLOOR PLAN - OVERALL
A1-1A RENOVATION FLOOR PLAN - AREA A
A1-1B RENOVATION FLOOR PLAN - AREA B
A1-1C RENOVATION FLOOR PLAN - AREA C
A1-1D RENOVATION FLOOR PLAN - AREA D
A1-2 ROOF PLAN
A2-1 RENOVATION BUILDING SECTIONS AND DETAILS
A5-1 DOOR SCHEDULE AND DETAILS
A6-1 REFLECTED CEILING PLANS

STRUCTURAL SHEETS
S0-0 COVER SHEET
S0-1 GENERAL NOTES
S0-2 GENERAL NOTES
S0-3 SPECIAL INSPECTIONS
SD1-0 OVERALL FOUNDATION DEMO PLAN
SD1-1A FOUNDATION DEMO PLAN - AREA A
SD1-1B FOUNDATION DEMO PLAN - AREA B
SD1-1C FOUNDATION DEMO PLAN - AREA C
SD1-1D FOUNDATION DEMO PLAN - AREA D
SD2-1 DEMO - WALL ELEVATIONS
SD2-2 DEMO - WALL ELEVATIONS
SD2-3 DEMO - WALL ELEVATIONS
S1-0 OVERALL FOUNDATION PLAN
S1-1A FOUNDATION PLAN - AREA A
S1-1B FOUNDATION PLAN - AREA B
S1-1C FOUNDATION PLAN - AREA C
S1-1D FOUNDATION PLAN - AREA D
S1-3 OVERALL ROOF PLAN
S2-1 WALL ELEVATIONS
S2-2 WALL ELEVATIONS
S2-3 WALL ELEVATIONS
S3-1 FOUNDATION DETAIL
S4-1 MASONRY DETAIL
S5-1 STEEL DETAIL
S5-2 STEEL DETAIL

MECHANICAL SHEETS
GME1-0 ENERGY COMPLIANCE
M0-1 COVER SHEET
MD1-1A MECHANICAL - DEMO - AREA A
MD1-1B MECHANICAL - DEMO - AREA B
MD1-1C MECHANICAL - DEMO - AREA C
MD1-1D MECHANICAL - DEMO - AREA D
M1-1 MECHANICAL - RENOVATED - AREA A
M1-2 MECHANICAL - RENOVATED - AREA B
M1-3 MECHANICAL - RENOVATED - AREA C
M1-4 MECHANICAL - RENOVATED - AREA D
M2-1 MECHANICAL DETAIL

PLUMBING SHEETS
P0-1 COVER SHEET
PD1-1A PLUMBING - DEMO - AREA A
PD1-1B PLUMBING - DEMO - AREA B
PD1-1C PLUMBING - DEMO - AREA C
PD1-1D PLUMBING - DEMO - AREA D
PD1-2A PLUMBING - DEMO - ENLARGED FLOOR PLAN - MEZZENINE
P1-1 PLUMBING - RENOVATED - AREA A
P1-2 PLUMBING - RENOVATED - AREA B
P1-3 PLUMBING - RENOVATED - AREA C
P1-4 PLUMBING - RENOVATED - AREA D
P2-1 PLUMBING DETAILS

ELECTRICAL SHEETS
E0-1 COVER SHEET
ED1-1 LIGHTING - DEMO - AREA A
ED1-2 LIGHTING - DEMO - AREA B
ED1-3 LIGHTING - DEMO - AREA C
ED1-4 LIGHTING - DEMO - AREA D
ED2-1 ELECTRICAL - DEMO - AREA A
ED2-2 ELECTRICAL - DEMO - AREA B
ED2-3 ELECTRICAL - DEMO - AREA C
ED2-4 ELECTRICAL - DEMO - AREA D
E1-1 LIGHTING - RENOVATED - AREA A
E1-2 LIGHTING - RENOVATED - AREA B
E1-3 LIGHTING - RENOVATED - AREA C
E1-4 LIGHTING - RENOVATED - AREA D
E2-1 ELECTRICAL - RENOVATED - AREA A
E2-2 ELECTRICAL - RENOVATED - AREA B
E2-3 ELECTRICAL - RENOVATED - AREA C
E2-4 ELECTRICAL - RENOVATED - AREA D
E3-1 ELECTRICAL SCHEDULES
E3-2 ELECTRICAL SCHEDULES
E3-3 ELECTRICAL SCHEDULES
E3-4 ELECTRICAL DETAILS

FIRE PROTECTION
FP 1-0 FIRE PROTECTION PLAN -OVERALL
FA0-0 FIRE ALARM COVER SHEET
FA1-1 FIRE ALARM FLOOR PLAN
FA1-2 FIRE ALARM FLOOR PLAN
FA1-3 FIRE ALARM FLOOR PLAN
FA1-4 FIRE ALARM FLOOR PLAN

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

TITLE SHEET

BP 01 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026

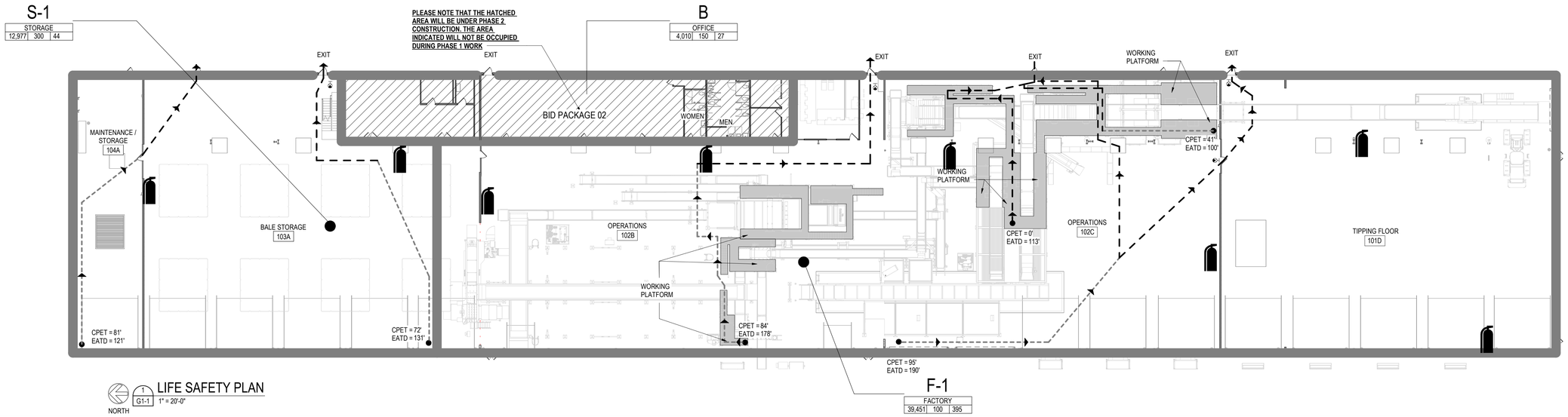
PROJECT #: 25034

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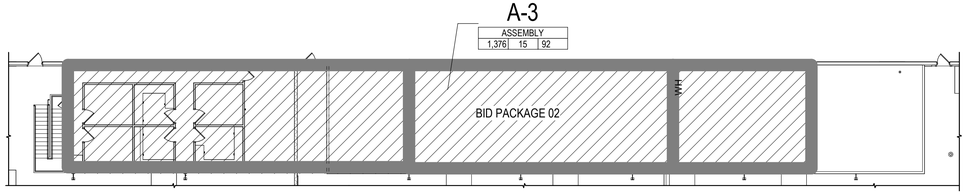
G0-1

Project Team:

Print Date: 2/5/2026 10:30:14 AM



1 G1-1 LIFE SAFETY PLAN
NORTH 1" = 20'-0"



2 G1-1 MEZZANINE LIFE SAFETY
NORTH 1/16" = 1'-0"

PLEASE NOTE THAT THE HATCHED AREA WILL BE UNDER BID PACKAGE 02 WORK

LIFE SAFETY PLAN LEGEND

- 1 HR FIRE SEPARATION
- CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE
- OCCUPANCY GROUP BOUNDARY
- EGRESS ROUTE (CONTINUATION OF EGRESS PATH)
- COMMON PATH OF EGRESS
- MATCH LINE
- EXIT LOAD
- FIRE EXTINGUISHER
- DIRECTION OF EGRESS
- EMERGENCY EXIT LIGHT
- EXIT LOAD
- REQUIRED WIDTH (INCHES): 8 / 1.6" / 0.00"
- ACTUAL WIDTH (INCHES)
- DIRECTION OF TRAVEL
- COMMON PATH OF EGRESS TRAVEL: CPET = 30' / EATD = 132'
- EXIT ACCESS TRAVEL DISTANCE
- OCCUPANCY GROUP: S-2
- USE: STORAGE
- AREA: 250 | 100 | 3
- OCCUPANT LOAD
- OCCUPANT LOAD FACTOR

NOTE: SOME SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT.

BUILDING CODE ANALYSIS

DESCRIPTION OF WORK
THE EXISTING BUILDING WILL BE RE-PURPOSED TO SUPPORT RECYCLING OPERATIONS BY INCORPORATING AREAS DEDICATED TO THE SORTING AND STORAGE OF RECYCLABLE MATERIALS AND OFFICES. IT WILL HOUSE AUTOMATED MACHINERY CAPABLE OF SEPARATING RECYCLABLES BY TYPE, INCLUDING PLASTICS, PAPER, AND GLASS. A DESIGNATED SECTION OF THE BUILDING WILL BE USED TO STORE BALED MATERIALS PRIOR TO PICKUP.

CODE JURISDICTION:
- 2024 INTERNATIONAL BUILDING CODE
- 2024 INTERNATIONAL EXISTING BUILDING CODE
- 2024 INTERNATIONAL ENERGY CONSERVATION CODE
- 2024 INTERNATIONAL PLUMBING CODE
- 2024 INTERNATIONAL MECHANICAL CODE
- 2024 INTERNATIONAL ELECTRICAL CODE
- 2024 INTERNATIONAL FUEL GAS CODE
- 2024 INTERNATIONAL FIRE CODE

OCCUPANCY:
- B: BUSINESS [**BID PACKAGE 02**]
- A-3: ASSEMBLY [**BID PACKAGE 02**]
- F-1: MODERATE-HAZARD FACTORY INDUSTRIAL
- S-1: MODERATE-HAZARD STORAGE

OCCUPANT LOADS:
- B: 6541/150 = 44 OCCUPANTS (**WILL BE DEVELOPED IN BID PACKAGE 02**)
- A-3: 1376/15 = 92 OCCUPANTS (**WILL BE DEVELOPED IN BID PACKAGE 02**)
- F-1: 39451/100 = 395 OCCUPANTS
- S-1: 12977/300 = 44 OCCUPANTS
- TOTAL = 575 OCCUPANTS

CONSTRUCTION TYPE:
CONSTRUCTION TYPICAL OF TYPE IIB.

AUTOMATIC SPRINKLER SYSTEM:
WILL BE PROVIDED
- FIRE SEPARATION DISTANCE IS GREATER THAN 30 FEET. NO FIRE -RESISTANCE RATING REQUIRMENT FOR EXTERIOR WALL [IBC TABLE 705.5]
- NO SEPARATION REQUIRED BETWEEN F-I , S-1 AND B OCCUPANCY [TABLE 508.4]
- 1 HR SEPARATION REQUIRED BETWEEN F-I AND A, S-1 AND A, B AND A [TABLE 508.4] (**BID PACKAGE 02**)
- THE SUM OF THE RATIO OF THE ACTUAL BUILDING AREA OF EACH SEPARATED OCCUPANCY DIVIDED BY THE ALLOWABLE BUILDING AREA OF EACH SEPARATED OCCUPANCY SHALL NOT EXCEED 1. [IBC SECTION 508.4.2]

BUILDING AREA:
ACTUAL TOTAL BUILDING: 58,000 SF
ALLOWED [IBC 506.2]
- S-1: 70, 000 SF
- F-1: 62, 000 SF
- B : 92, 000 SF
- A-3 : 28, 500 SF

B		A-3		S-1		F-1		
6541 / 92000	+	1376 / 28500	+	12977 / 70000	+	39451 / 62000	≤	1.0
0.071	+	0.048	+	0.18	+	0.63	≤	1.0

BUILDING HEIGHT:
ACTUAL HEIGHT: 24'-0" AFF ,1 STORY
ALLOWABLE HEIGHT: 75'-0" AFF ,3 STORIES [IBC 504]

FIRE RESISTANCE RATING REQUIREMENTS:
(FOR TYPE IIB CONSTRUCTION) [IBC TABLE 601]
STRUCTURAL FRAME: 0 HRS
BEARING WALLS, EXTERIOR: 0 HRS
BEARING WALLS, INTERIOR: 0 HRS
NON-BEARING WALLS, EXTERIOR: 0 HRS*
*1 HR IF < 10 FT FIRE SEPARATION DISTANCE [IBC TABLE 602]
NON-BEARING WALLS, INTERIOR: 0 HRS
FLOOR CONSTRUCTION: 0 HRS
ROOF CONSTRUCTION: 0 HRS

MINIMUM NUMBER OF EXIT REQUIRED [TABLE 1006.3]
OCCUPANT LOAD UP TO 500 : 2 EXITS
OCCUPANT LOAD 501 TO 1000 : 3 EXITS

EXIT TRAVEL DISTANCE:
FOR B OCCUPANCY:
- COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM [IBC TABLE 1006.2.1]
- EXIT ACCESS TRAVEL DISTANCE: 300 FT WITH SPRINKLER SYSTEM [IBC TABLE 1017.2]

FOR A OCCUPANCY:
- COMMON PATH OF EGRESS TRAVEL: 75 FT WITH SPRINKLER SYSTEM [IBC TABLE 1006.2.1]
- EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM [IBC TABLE 1017.2]

FOR S-1 OCCUPANCY:
- COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM [IBC TABLE 1006.2.1]
- EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM [IBC TABLE 1017.2]

FOR F-1 OCCUPANCY:
- COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM [IBC TABLE 1006.2.1]
- EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM [IBC TABLE 1017.2]

PLUMBING FIXTURE COUNT:

OCCUPANCY TYPE	OCC LD	MEN	WOMEN	WC'S REQ'D M / W	WC'S PROV M /W	LAV REQ'D M / W	LAV PROV M / W	DF REQ'D	DF PROV	SS REQ'D	SS PROV
BUSINESS (B) (**PHASE 2**)	44	22	22	.88 / .55		.55/.55		.5			
ASSEMBLY (A-3)(**PHASE 2**)	92	46	46	.37 / .7		.25/.25		.2		1	
STORAGE (S-1) (**PHASE 1**)	48	24	24	.24/.24		.25/.25		.05			
FACTORY (F-1) (**PHASE 1**)	382	191	191	1.91/1.91		1.95/1.95		.96			
TOTALS M / W UNISEX (**PHASE 2**)	566	283	283	3.4/3.4	9 / 2	3 / 3	3 / 1	1.71			
TOTAL FOR BUILDING				4 / 4	9 / 2	3 / 3	3 / 1	2		1	

NOTE: THE PLANED USE EXPECTED TO HAVE A WORKFORCE WITH A HIGHER PROPORTION OF MALE OCCUPANTS. IN ACCORDANCE WITH IBC 2902.1.1, EXCEPTION 1, THE TOTAL OCCUPANT LOAD IS NOT REQUIRED TO BE SPLIT EVENLY BETWEEN MALES AND FEMALES WHEN CALCULATING THE PLUMBING FIXTURES, AND THE FIXTURE COUNTS DOES NOT HAVE TO MATCH EQUALLY FOR EACH SEX WHEN THE DISTRIBUTION IS NOT 50/50.

EXISTING BUILDING CODE (IEBC) ANALYSIS

IEBC 2024 - CHAPTER 1- SCOPE OF ADMINISTRATION

IEBC 2024 - CHAPTER 2- DEFINITION

IEBC 2024 - CHAPTER 3- PROVISIONS FOR ALL COMPLIANCE METHODS

CODE SECTION	APPLICABLE ?	COMMENTS
301.3.3	YES	WORK AREA COMPLIANCE METHOD USED FOR THIS ALTERATION WORK (IEBC CH 6-12)
302 - GENERAL PROVISIONS	YES	NOTED
303 - STORM SHELTERS	NO	
304 - DESIGN LOAD AND EVALUATION	NO	NO INCREASE IN LIVE LOAD
305 - IN - SITU LOAD TESTS	NO	
306 - ACCESSIBLE FOR EXISTING BUILDINGS	YES	ACCESSIBLE MEANS OF EGRESS WILL BE MAINTAINED DURING OCCUPANCY NO REDUCTION IN ACCESSIBILITY ALTERATION WILL COMPLY WITH SECTION 306.7
307 - SMOKE ALARM	NO	
308 - CARBON MONOXIDE DETECTION	NO	
309 - ADDITION OR REPLACEMENT OF EXTERIOR WALL COVERINGS	NO	

IEBC 2024 - CHAPTER 4 -REPAIR (NOT APPLICABLE)

IEBC 2024 - CHAPTER 5 -PRESCRIPTIVE COMPLIANCE METHOD (NOT APPLICABLE)

IEBC 2024 - CHAPTER 6-CLASSIFICATION OF WORK

CODE SECTION	APPLICABLE ?	COMMENTS
601.2	YES	WORK AREA COMPLIANCE METHOD USED FOR THIS ALTERATION WORK (IEBC CH 6-12)
602 - ALTERATION LEVEL 1	NO	
603 - ALTERATION LEVEL 2	NO	
604 - ALTERATION LEVEL 3	YES	
605 - CHANGE OF OCCUPANCY	NO	
606 - ADDITION	NO	
607 - HISTORIC BUILDING	NO	

IEBC 2024 - CHAPTER 7-ALTERATION LEVEL 1 (REFER CHAPTER 9)

IEBC 2024 - CHAPTER 8-ALTERATION LEVEL 2 (REFER CHAPTER 9)

IEBC 2024 - CHAPTER 9-ALTERATION LEVEL 3

CODE SECTION	APPLICABLE ?	COMMENTS
901.1 - SCOPE	YES	NOTED
901.2 - COMPLIANCE	YES	NOTED
902 - SPECIAL USE OCCUPANCY	NO	
903 - BUILDING ELEMENTS AND MATERIALS	NO	
904 - FIRE PROTECTION	YES	AUTOMATIC SPRINKLER SYSTEM WILL BE PROVIDED PORTABLE FIRE EXTINGUISHERS WILL BE PROVIDED
905 - MEANS OF EGRESS	YES	NOTED
906 - STRUCTURAL	NO	
907 - ENERGY CONSERVATION	NO	
908 - EMERGENCY RESPONDER COMMUNICATION	NO	

IEBC 2024 - CHAPTER 10- CHANGE OF OCCUPANCY (NOT APPLICABLE)

IEBC 2024 - CHAPTER 11- ADDITION (NOT APPLICABLE)

IEBC 2024 - CHAPTER 12- HISTORIC BUILDING (NOT APPLICABLE)

IEBC 2024 - CHAPTER 13 - PERFORMANCE COMPLIANCE METHODS (NOT APPLICABLE)

IEBC 2024 - CHAPTER 14 - RELOCATED OR MOVED BUILDINGS (NOT APPLICABLE)

IEBC 2024 - CHAPTER 15 - CONSTRUCTION SAFEGUARDS

IEBC 2024 - CHAPTER 16 - REFERENCED STANDARD

MIN NUMBER OF FIXTURE REQUIRED [IBC TABLE 2902]

ASSEMBLY [A-3]
- WATER CLOSET: MEN 1 PER 125; WOMEN 1 PER 65
- LAVATORY: 1 PER 200
- DF: 1 PER 500
- SERVICE SINK: 1 TOTAL

BUSINESS [B]
- WATER CLOSET: MEN 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMINDER EXCEEDING 50; WOMEN 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMINDER EXCEEDING 80
- LAVATORY: 1 PER 200
- DF: 1 PER 100
- SERVICE SINK: 1 TOTAL

STORAGE [S-1]
- WATER CLOSET: 1 PER 100
- LAVATORY: 1 PER 100
- DF: 1 PER 1000
- SERVICE SINK: 1 TOTAL

FACTORY [F-1]
- WATER CLOSET: 1 PER 100
- LAVATORY: 1 PER 100
- DF: 1 PER 400
- SERVICE SINK: 1 TOTAL

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970-242-1058 office

BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

LIFE SAFETY PLAN

BP 01 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

G1-1

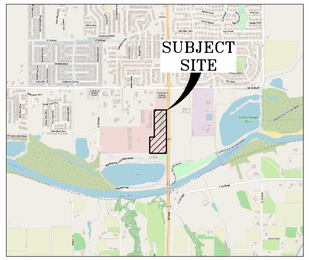
Project Team:

Print Date: 2/4/2026 8:38:32 AM

TOPOGRAPHIC SURVEY

Materials Recovery Facility

Lot 2 of Grand Mesa Industrial Park Subdivision, Located in the NE Quarter of the NE Quarter of Section 22, Township 1 South, Range 1 East of the Ute Meridian, City of Grand Junction, County of Mesa, State of Colorado



VICINITY MAP
1" = 2000'

GENERAL NOTES

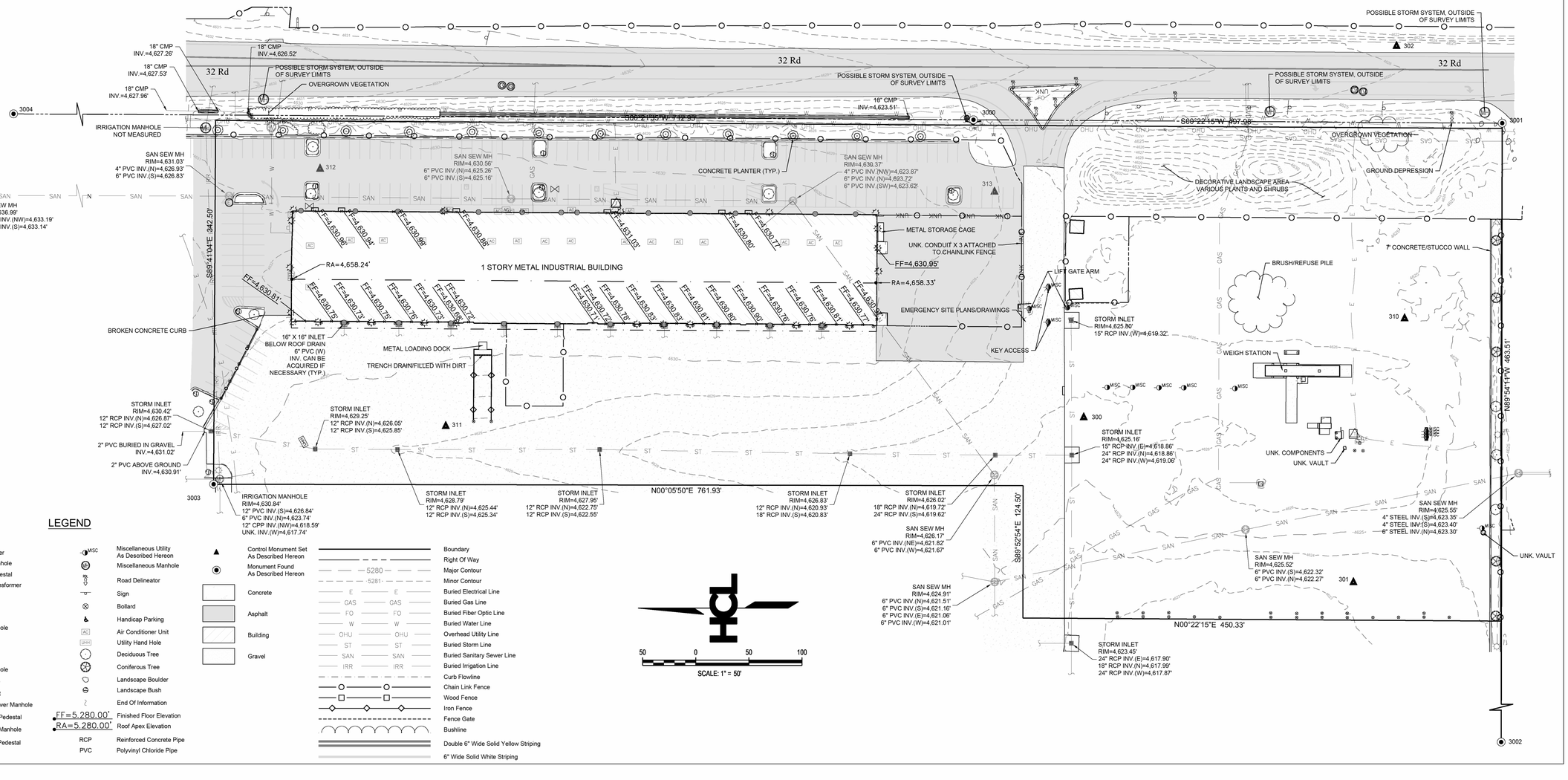
1. Nature and purpose of this survey: This survey is not a land survey plat, improvement survey plat, or improvement location certificate. The purpose of this survey was to locate improvements and topography within Lot 2 of the Grand Mesa Industrial Park Subdivision and the surrounding area as needed for the design purposes. Client provided no title reports and/or title company research. If any easements exist within the surveyed area, their existence is unknown to surveyor and they are not shown.
2. Benchmark: Control point no. 300 as shown hereon. NAVD88 Elevation= 4,625.83' . Established by corrected GNSS observations with respect to MC01 permanent reference station broadcast radio corrections.
3. The linear units of measure used in this survey are U.S. survey feet. The United States survey foot is defined as exactly 1200 / 3937 meters.
4. Horizontal coordinates are based on the Mesa County Grand Valley Area local projection coordinate system.
   Zone: GVA
   Projection: Transverse Mercator Projection
   Point of Origin: SN01
   Northing: 50,000 Ft
   Easting: 100,000 Ft
   Project/Scale Factor Height: 4,644 Ft (NAVD 88)
   Latitude (Degrees): 39° 06' 22.72756"N
   Latitude (Decimal): 39.106313211°
   Longitude (Degrees): 108° 32' 01.43463"W
   Longitude (Decimal): 108.533731842°
   Scale Factor: 1.000218181798
5. Date of field survey: 12/16/2025
6. Any person who knowingly removes, alters or defaces any public land survey monument or land boundary monument or accessory commits a class two (2) misdemeanor pursuant to state statute 18-4-508, C.R.S.
7. NOTICE: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

Control Point Table

Point #	Northing	Easting	Elevation	Description
300	32,732.783	120,755.345	4,625.82	No. 5 Rebar with Pink Plastic Cap marked "Control Point"
301	32,478.962	120,600.161	4,623.26	No. 5 Rebar with Pink Plastic Cap marked "Control Point"
302	32,438.388	121,104.905	4,625.67	No. 5 Rebar with Pink Plastic Cap marked "Control Point"

UTILITY LOCATION NOTES

1. The utility information shown on this drawing was derived from paint marks visible on the ground placed by 811 underground utility locates, and publicly available utility maps. A subsurface utility investigation was not performed under the scope of this contract.
2. The location of underground features cannot be accurately, completely and reliably determined without excavation. Where additional or more detailed information is required, the client is advised that excavation may be necessary. No excavations were made during the progress of this exhibit to locate buried utilities and structures. All underground utilities must be field located by the appropriate agency or utility company prior to any excavation, pursuant to C.R.S. Sec 9-1.5-103.



LEGEND

Electric Meter	MSC Miscellaneous Utility As Described Hereon	Control Monument Set	Boundary
Electric Manhole	MH Miscellaneous Manhole	Monument Found As Described Hereon	Right Of Way
ELE Electric Pedestal	Road Delineator	5280 Major Contour	
Electric Transformer	Sign	5281 Minor Contour	
Utility Pole	Bollard	E Buried Electrical Line	
Light Pole	Handicap Parking	GAS Buried Gas Line	
Guy Wire	AC Air Conditioner Unit	FO Buried Fiber Optic Line	
Storm Manhole	UPH Utility Hand Hole	W Buried Water Line	
Storm Inlet	Deciduous Tree	OHU Overhead Utility Line	
Storm Inlet	Coniferous Tree	ST Buried Storm Line	
Roof Drain	Landscape Boulder	SAN Buried Sanitary Sewer Line	
Water Manhole	Landscape Bush	IRR Buried Irrigation Line	
Water Valve	End Of Information	Curb Flowline	
Fire Hydrant	FF=5,280.00' Finished Floor Elevation	Chain Link Fence	
Sanitary Sewer Manhole	RA=5,280.00' Roof Apex Elevation	Wood Fence	
FO Fiber Optic Pedestal	RCP Reinforced Concrete Pipe	Iron Fence	
Fiber Optic Manhole	PVC Polyvinyl Chloride Pipe	Fence Gate	
TEL Telephone Pedestal		Bushline	
GM Gas Meter		Double 6" Wide Solid Yellow Striping	
		6" Wide Solid White Striping	

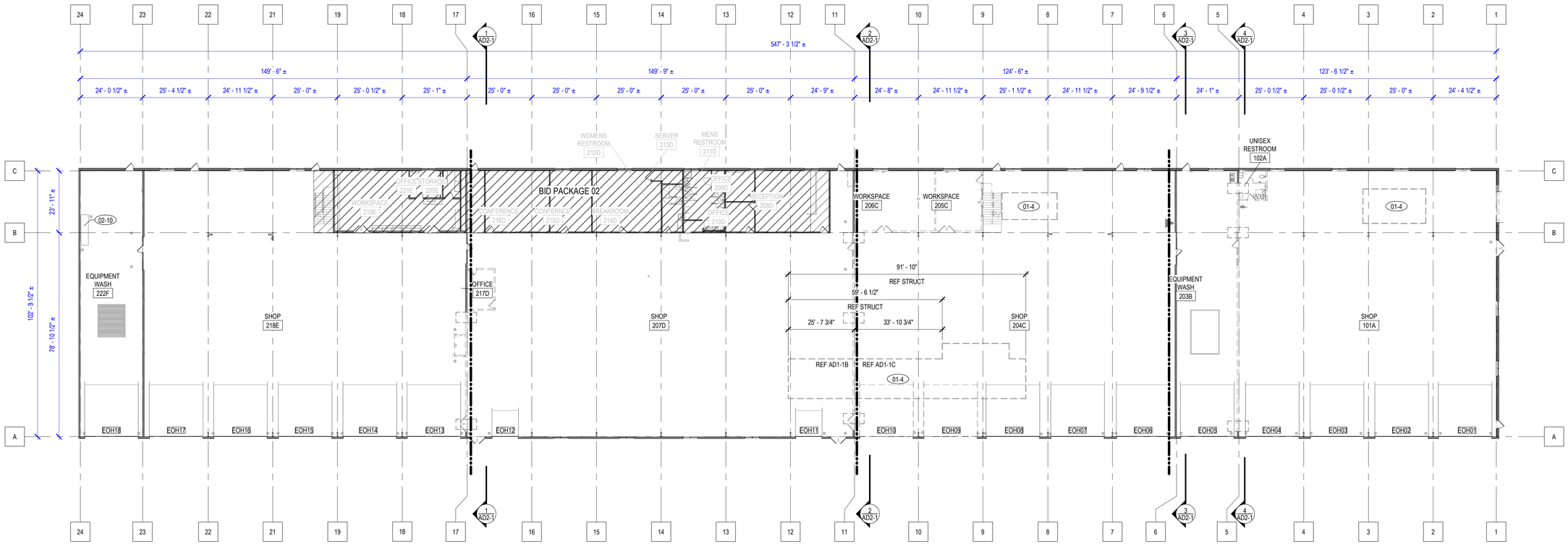
HCL ENGINEERING & SURVEYING, L.L.C.
5975 S. QUEBEC ST., SUITE 200
CENTENNIAL, CO 80111
PHONE: 303.773.1605
FAX: 303.773.3297
WWW.HCLENGINEERING.COM
ENGINEERS•SURVEYORS•ARCHITECTS

TOPOGRAPHIC SURVEY
Materials Recovery Facility

REV.	DESC.	DATE:

DATE: 01-26-2026
PROJECT #: 0182
SHEET #:
SURVEY

Project Team:
Print Date: 2026-01-26 5:00pm By: awhite
H:\2025 Jobs\250182 - Grand Junction Materials Recovery Facility Renovation\Survey\CAD\250182 - Grand Junction Materials Recovery Facility Renovation.dwg



1 AD1-1 DEMOLITION FLOOR PLAN
1" = 20'-0"

NORTH

KEYNOTE LEGEND	
01-4	REF STRUCT AND EQUIPMENT PIT DRAWINGS FOR FINAL REQUIRED DIMENSIONS
02-10	EXIST WATER ENTRY [REF MECH]

DEMOLITION LEGEND

- EXIST WALL
- REMOVE WALL
- EXIST DOOR
- REMOVE DOOR
- NO ARCHITECTURAL RENOVATION WORK
- AREA OF ARCHITECTURAL RENOVATION
- BID PACKAGE 02 CONSTRUCTION. NO WORK IN BID PACKAGE 01

GENERAL NOTES

1. DIMENSIONS ARE TO FINISH FACE OF WALLS, UNO.
2. DIMENSIONS ARE ROUGH ESTIMATES BASED ON AVAILABLE EXISTING INFORMATION. VERIFY MEASUREMENTS IN FIELD.
3. REFER TO AREA DEMOLITION PLANS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. NOT ALL CONDUIT, DEVICES, PIPING, ETC HAVE BEEN INDICATED IN THE DEMOLITION DRAWINGS. ANY OF THESE VERIFIED AS NO LONGER IN USE SHALL BE REMOVED BY THE CONTRACTOR WHEN NECESSARY FOR THE NEW WORK.
5. GRIDLINES ARE LOCATED ON F.O. COLUMNS AS INDICATED.



2 AD1-1 INTERIOR ELEVATION
1 1/2" = 1'-0"



3 AD1-1 INTERIOR DETAIL
1 1/2" = 1'-0"

KEYPLAN

A	B	C	D

NORTH

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BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

DEMOLITION FLOOR PLAN - OVERALL

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

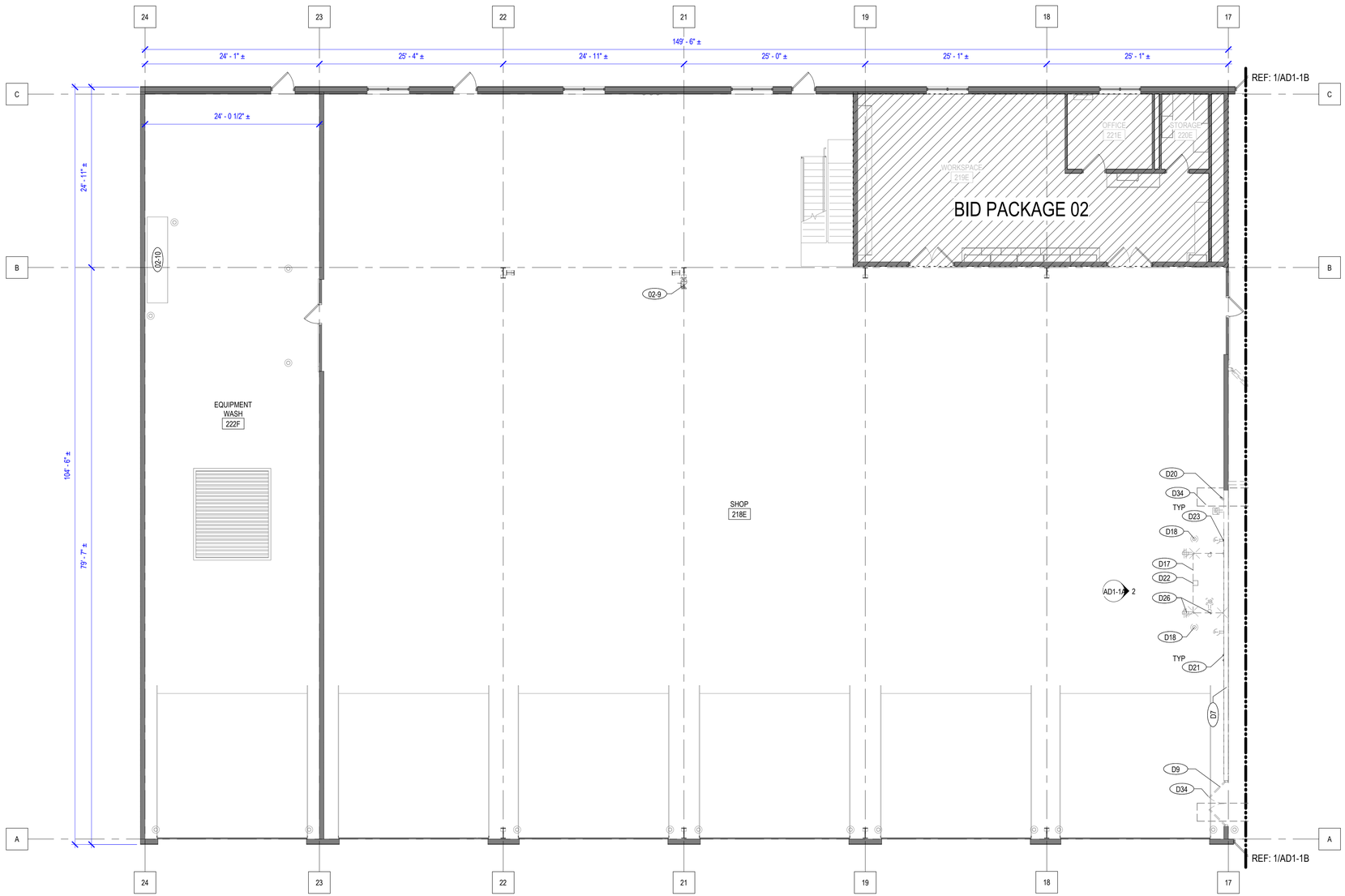
DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

AD1-1

Project Team:
Print Date: 2/4/2026 8:39:34 AM



NORTH

1 AD1-1A 1/8" = 1'-0"

DEMOLITION FLOOR PLAN - AREA A



- REMOVE ELECTRICAL DEVICES ON EQUIPMENT FENCING [REF ELEC]
- REMOVE ACCESS CONTROL DEVICE
- REMOVE EQUIPMENT FENCING
- REMOVE ELECTRICAL DEVICES ON ADJACENT WALL - VERIFY DEVICES ARE NO LONGER IN USE - REMOVE ONLY DEVICES THAT ARE ONLY NECESSARY FOR THE NEW WORK.
- REMOVE EXIST BOLLARD - PATCH AND REPAIR CONC SLAB AS REQUIRED
- REMOVE STL POST

2 AD1-1A 1 1/2" = 1'-0"

INTERIOR ELEVATION - EQUIPMENT FENCE

KEYNOTE LEGEND	
02-9	EXIST EYEWASH STATION TO REMAIN
02-10	EXIST WATER ENTRY [REF MECH]
D7	REMOVE PORTION OF LOAD-BEARING MASONRY WALL AS INDICATED AND REQ'D [REF STRUCT]
D9	REMOVE DOOR AND FRAME
D17	REMOVE EQUIPMENT FENCING. PATCH SLAB AS REQ'D
D18	REMOVE BOLLARD. PATCH AND REPAIR CONC SLAB AS REQUIRED
D20	REMOVE EXIST SECURITY CAMERA
D21	REMOVE EXISTING ELECTRICAL DEVICE - VERIFY EXACT LOCATION IN FIELD
D22	REMOVE ACCESS CONTROL DEVICE - VERIFY EXACT LOCATION IN FIELD
D23	REMOVE THERMOSTAT DEVICE - VERIFY EXACT LOCATION IN FIELD
D26	REMOVE ALL EXISTING ELECTRICAL DEVICES ON EQUIPMENT FENCE - VERIFY IN FIELD [REF ELEC]
D34	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW FNDS. VERIFY EXTENTS OF CONC REMOVAL TO ALLOW FOR INSTALL OF CONC PILE CAP [REF STRUCT]

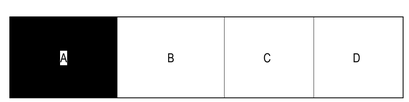
DEMOLITION LEGEND

- EXIST WALL
- REMOVE WALL
- EXIST DOOR
- REMOVE DOOR
- NO ARCHITECTURAL RENOVATION WORK
- AREA OF ARCHITECTURAL RENOVATION
- BID PACKAGE 02 CONSTRUCTION. NO WORK IN BID PACKAGE 01

GENERAL NOTES

1. DIMENSIONS ARE TO FINISH FACE OF WALLS, UNO.
2. DIMENSIONS ARE ROUGH ESTIMATES BASED ON AVAILABLE EXISTING INFORMATION. VERIFY MEASUREMENTS IN FIELD.
3. REFER TO AREA DEMOLITION PLANS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. NOT ALL CONDUIT, DEVICES, PIPING, ETC HAVE BEEN INDICATED IN THE DEMOLITION DRAWINGS. ANY OF THESE VERIFIED AS NO LONGER IN USE SHALL BE REMOVED BY THE CONTRACTOR WHEN NECESSARY FOR THE NEW WORK.
5. GRIDLINES ARE LOCATED ON F.O. COLUMNS AS INDICATED.

KEYPLAN



NORTH

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Interior Design
Project Management
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BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

DEMOLITION FLOOR PLAN - AREA A

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

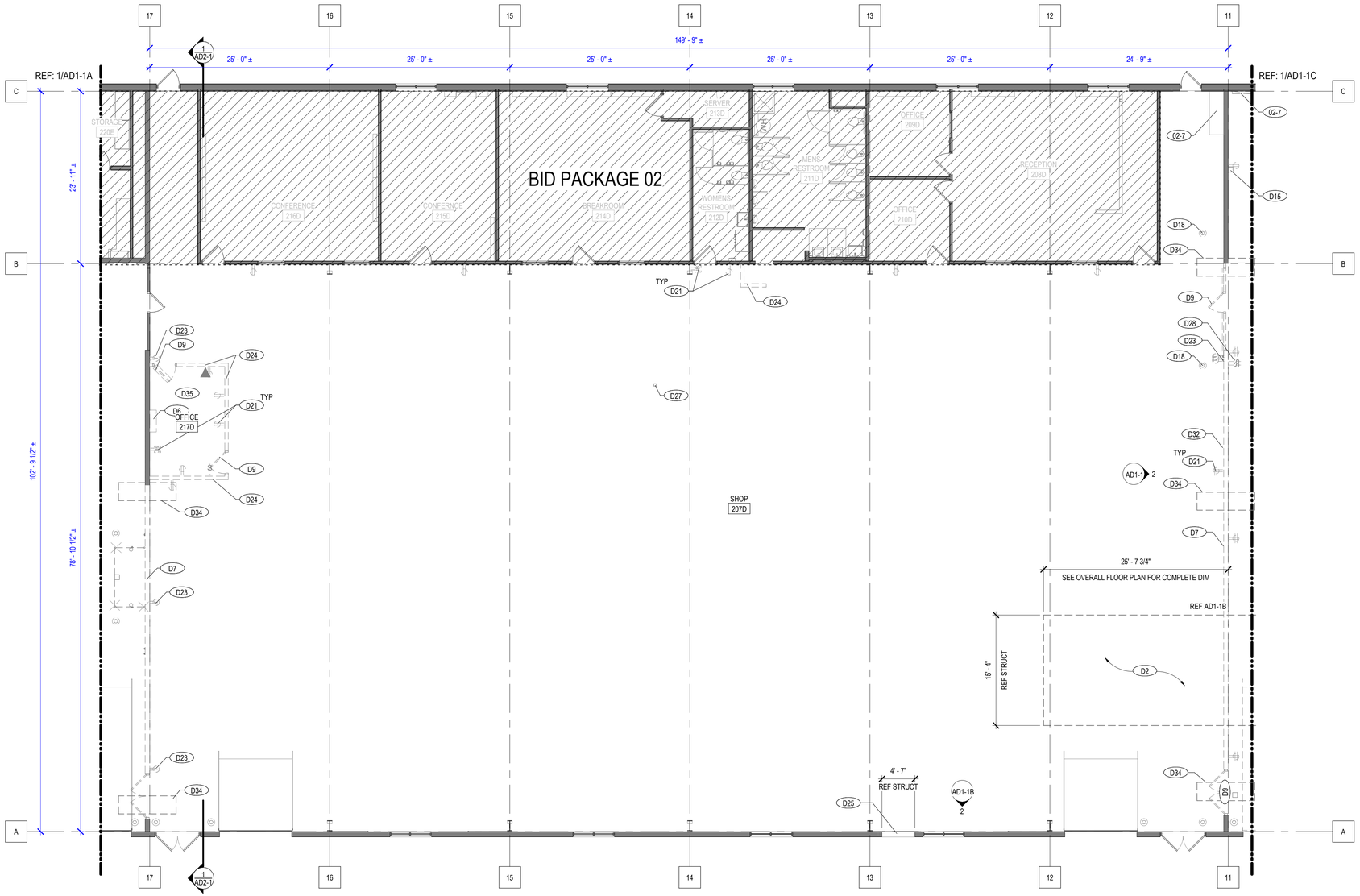
DATE: 2/2/2026

PROJECT #: 25034

SHEET #: AD1-1A

Project Team:

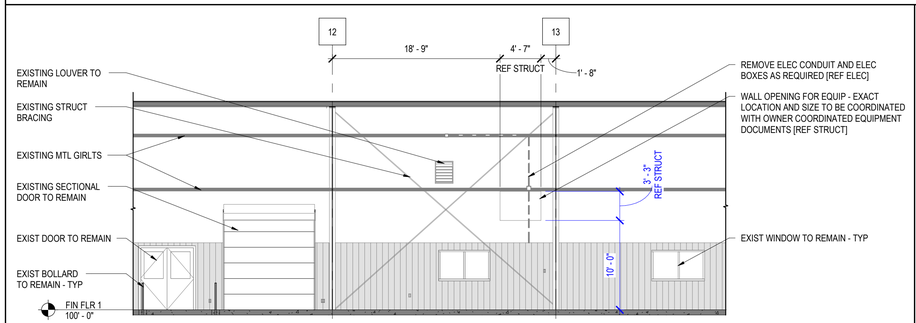
Print Date: 2/4/2026 8:38:35 AM



DEMOLITION FLOOR PLAN - AREA B

NORTH

1 AD1-1B 1/8" = 1'-0"



DEMO INTERIOR ELEVATION

2 AD1-1B 1/8" = 1'-0"

KEYNOTE LEGEND

02-7	EXIST ELEC EQUIPMENT [REF ELEC]
D2	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW PIT. REFER TO STRUCT FOR PIT DESIGN AND WALL CONDITIONS. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR SPECIFIC PIT LOCATION AND DIMENSIONS. ACTUAL AREA OF CONC SLAB TO BE REMOVED SHALL BE COORDINATED BY GC WITH THE PERMANENT SHORING REQUIREMENTS PROVIDED BY OTHERS.
D6	REMOVE EXIST MECHANICAL EQUIPMENT [REF MECH]
D7	REMOVE PORTION OF LOAD-BEARING MASONRY WALL AS INDICATED AND REQ'D [REF STRUCT]
D9	REMOVE DOOR AND FRAME
D15	REMOVE MTL COLUMN - PRIOR TO REMOVAL, VERIFY COLUMN ONLY SUPPORTED MEZZANINE STRUCTURE ALSO IDENTIFIED FOR DEMOLITION
D18	REMOVE BOLLARD. PATCH AND REPAIR CONC SLAB AS REQUIRED
D21	REMOVE EXISTING ELECTRICAL DEVICE - VERIFY EXACT LOCATION IN FIELD
D23	REMOVE THERMOSTAT DEVICE - VERIFY EXACT LOCATION IN FIELD
D24	REMOVE INTERIOR WD STUD WALLS - COORDINATE LOCATION AND EXTENTS W/ RECONSTRUCTION DWGS
D25	REMOVE PORTION OF EXTERIOR MTL BLDG WALL AS INDICATED
D27	REMOVE EXIST POWERPOLE [REF ELEC]
D28	REMOVE EXIST LIGHTING CONTROL - COORDINATE WITH ELEC FOR REROUTE IF APPLICABLE [REF ELEC]
D32	REMOVE EXIST ELEC CONDUIT - VERIFY CONDUIT EXTENTS [REF ELEC]
D34	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW FNDS. VERIFY EXTENTS OF CONC REMOVAL TO ALLOW FOR INSTALL OF CONC PILE CAP [REF STRUCT]
D35	REMOVE EXISTING CEILING FRAMING AND FINISHES

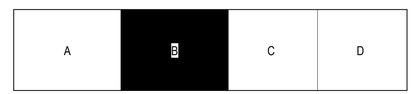
DEMOLITION LEGEND

- EXIST WALL
- REMOVE WALL
- EXIST DOOR
- REMOVE DOOR
- NO ARCHITECTURAL RENOVATION WORK
- AREA OF ARCHITECTURAL RENOVATION
- BID PACKAGE 02 CONSTRUCTION. NO WORK IN BID PACKAGE 01

GENERAL NOTES

1. DIMENSIONS ARE TO FINISH FACE OF WALLS, UNO.
2. DIMENSIONS ARE ROUGH ESTIMATES BASED ON AVAILABLE EXISTING INFORMATION. VERIFY MEASUREMENTS IN FIELD.
3. REFER TO AREA DEMOLITION PLANS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. NOT ALL CONDUIT, DEVICES, PIPING, ETC HAVE BEEN INDICATED IN THE DEMOLITION DRAWINGS. ANY OF THESE VERIFIED AS NO LONGER IN USE SHALL BE REMOVED BY THE CONTRACTOR WHEN NECESSARY FOR THE NEW WORK.
5. GRIDLINES ARE LOCATED ON F.O. COLUMNS AS INDICATED.

KEYPLAN



NORTH

BG co.
Architecture
Interior Design
Project Management
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Grand Junction, CO 81501
970-242-1058 office
BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

DEMOLITION FLOOR PLAN - AREA B

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

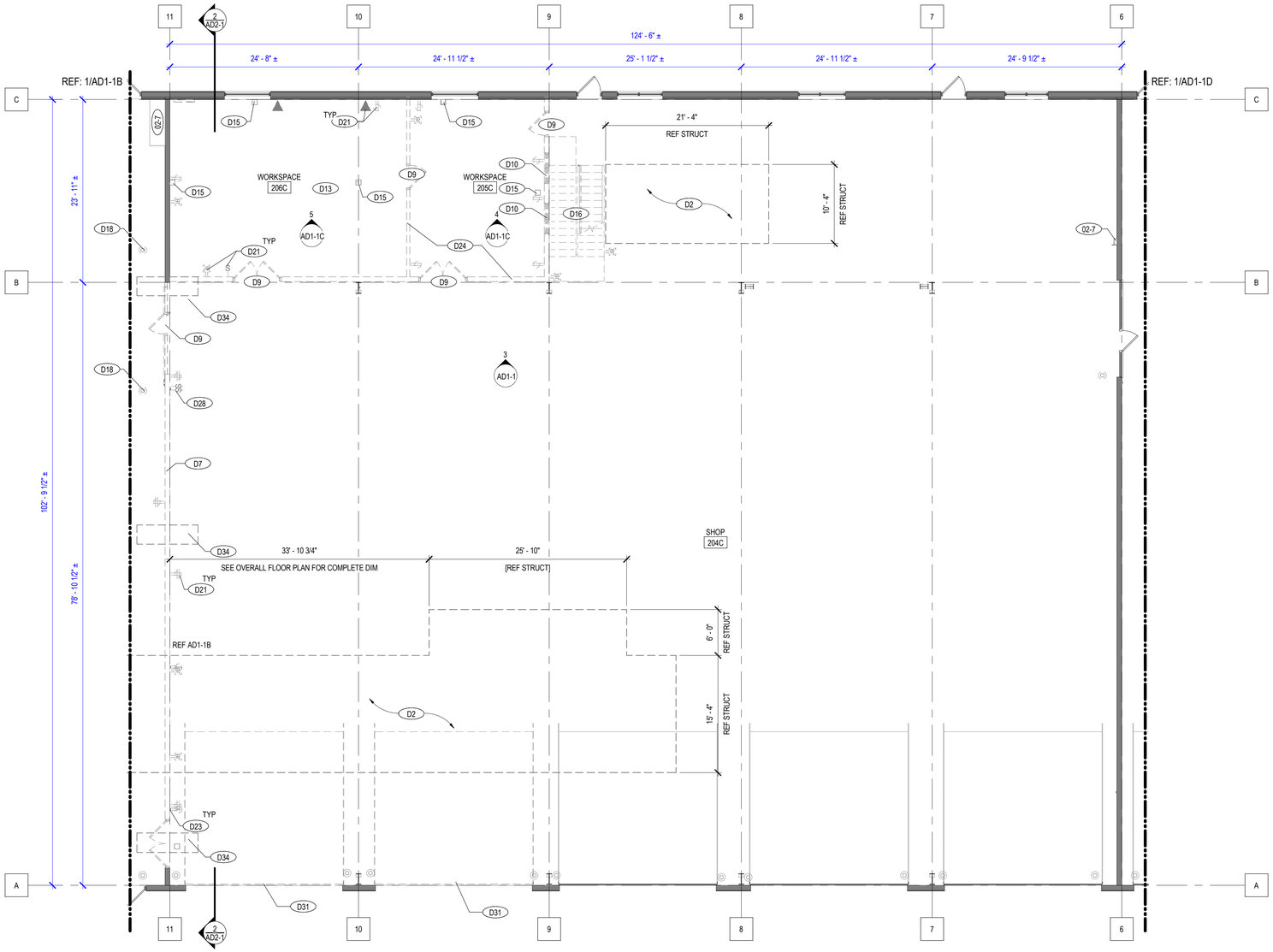
PROJECT #: 25034

SHEET #:

AD1-1B

Project Team:

Print Date: 2/4/2026 8:38:36 AM



1 AD1-1C NORTH

DEMOLITION FLOOR PLAN - AREA C

1/8" = 1'-0"

KEYNOTE LEGEND

02-7	EXIST ELEC EQUIPMENT [REF ELEC]
D2	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW PIT. REFER TO STRUCT FOR PIT DESIGN AND WALL CONDITIONS. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR SPECIFIC PIT LOCATION AND DIMENSIONS. ACTUAL AREA OF CONC SLAB TO BE REMOVED SHALL BE COORDINATED BY GC WITH THE PERMANENT SHORING REQUIREMENTS PROVIDED BY OTHERS.
D3	REMOVE EXISTING FLOOR FRAMING, SUBFLOOR, AND FINISHES
D4	REMOVE EXISTING LIGHTING FIXTURE [REF ELEC]
D6	REMOVE EXIST MECHANICAL EQUIPMENT [REF MECH]
D7	REMOVE PORTION OF LOAD-BEARING MASONRY WALL AS INDICATED AND REQ'D [REF STRUCT]
D9	REMOVE DOOR AND FRAME
D10	REMOVE WINDOW AND FRAME
D13	REF TO DEMOLITION PLAN OF SECOND STORY MEZZANINE IN AREA [REF: 2/AD1-1C]
D15	REMOVE MTL COLUMN - PRIOR TO REMOVAL, VERIFY COLUMN ONLY SUPPORTED MEZZANINE STRUCTURE ALSO IDENTIFIED FOR DEMOLITION
D16	REMOVE MTL STAIR AND LANDING
D18	REMOVE BOLLARD. PATCH AND REPAIR CONC SLAB AS REQUIRED
D21	REMOVE EXISTING ELECTRICAL DEVICE - VERIFY EXACT LOCATION IN FIELD
D23	REMOVE THERMOSTAT DEVICE - VERIFY EXACT LOCATION IN FIELD
D24	REMOVE INTERIOR WD STUD WALLS - COORDINATE LOCATION AND EXTENTS W/ RECONSTRUCTION DWGS
D28	REMOVE EXIST LIGHTING CONTROL - COORDINATE WITH ELEC FOR REROUTE IF APPLICABLE [REF ELEC]
D31	REMOVE EXIST SECTIONAL DOOR
D34	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW FNDS. VERIFY EXTENTS OF CONC REMOVAL TO ALLOW FOR INSTALL OF CONC PILE CAP [REF STRUCT]
D35	REMOVE EXISTING CEILING FRAMING AND FINISHES

DEMOLITION LEGEND

- EXIST WALL
- REMOVE WALL
- EXIST DOOR
- REMOVE DOOR
- NO ARCHITECTURAL RENOVATION WORK
- AREA OF ARCHITECTURAL RENOVATION
- BID PACKAGE 02 CONSTRUCTION. NO WORK IN BID PACKAGE 01

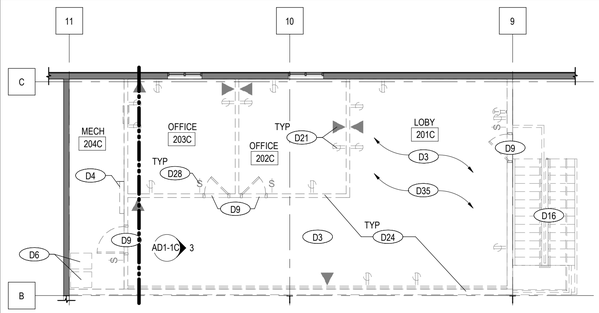
GENERAL NOTES

1. DIMENSIONS ARE TO FINISH FACE OF WALLS, UNO.
2. DIMENSIONS ARE ROUGH ESTIMATES BASED ON AVAILABLE EXISTING INFORMATION. VERIFY MEASUREMENTS IN FIELD.
3. REFER TO AREA DEMOLITION PLANS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. NOT ALL CONDUIT, DEVICES, PIPING, ETC HAVE BEEN INDICATED IN THE DEMOLITION DRAWINGS. ANY OF THESE VERIFIED AS NO LONGER IN USE SHALL BE REMOVED BY THE CONTRACTOR WHEN NECESSARY FOR THE NEW WORK.
5. GRIDLINES ARE LOCATED ON F.O. COLUMNS AS INDICATED.

KEYPLAN



NORTH



2 AD1-1C NORTH

DEMOLITION PLAN - AREA C - SECOND FLOOR

1/8" = 1'-0"



- REMOVE ALL MECH EQUIPMENT [REF MECH]
- REMOVE CEILING FRAMING AND FINISHES
- REMOVE ALL EXISTING LIGHTING - TYP [REF ELEC]
- REMOVE ALL DOOR LEAFS AS FRAMES
- REMOVE WD FRAMED WALLS AS INDICATED [REF DEMO FLOOR PLAN]
- REMOVE ALL EXISTING FURNITURE [COORDINATE W/ OWNER]
- REMOVE FLOOR FRAMING, SUBFLOOR, AND FINISHES

3 AD1-1C

INTERIOR DETAIL

1 1/2" = 1'-0"



- REMOVE HM DOOR AND FRAME
- REMOVE WD FLOOR FRAMING
- REMOVE EXIST LIGHTING FIXTURES [REF ELEC]
- REMOVE EXIST HVAC EQUIPMENT [REF MECH]
- REMOVE DBL HM DOOR AND FRAME
- REMOVE EXIST ELEC FIXTURES AS REQ'D FOR NEW WORK
- REMOVE MTL COLUMN. PRIOR TO REMOVAL, VERIFY COLUMN ONLY SUPPORTED MEZANINE STRUCTURE ALSO IDENTIFIED FOR DEMOLITION
- REMOVE WINDOW AND FRAME
- REMOVE ALL EXIST FURNTITURE - COORDINATE W/ OWNER

4 AD1-1C

INTERIOR DETAIL

1 1/2" = 1'-0"



- REMOVE EXIST LIGHTING [REF ELEC]
- REMOVE WD FLOOR FRAMING
- EXIST OPENING TO REMAIN
- REMOVE EXISTING ELEC EQUIPMENT [REF ELEC]
- REMOVE EXISTING ELEC DEVICES AND CONDUIT AS NECCESSARY FOR NEW WORK [REF ELEC]
- REMOVE MTL COLUMN. PRIOR TO REMOVAL, VERIFY COLUMN ONLY SUPPORTED MEZANINE STRUCTURE ALSO IDENTIFIED FOR DEMOLITION

5 AD1-1C

INTERIOR DETAIL

1 1/2" = 1'-0"

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Interior Design
Project Management

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BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

DEMOLITION FLOOR PLAN - AREA C

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

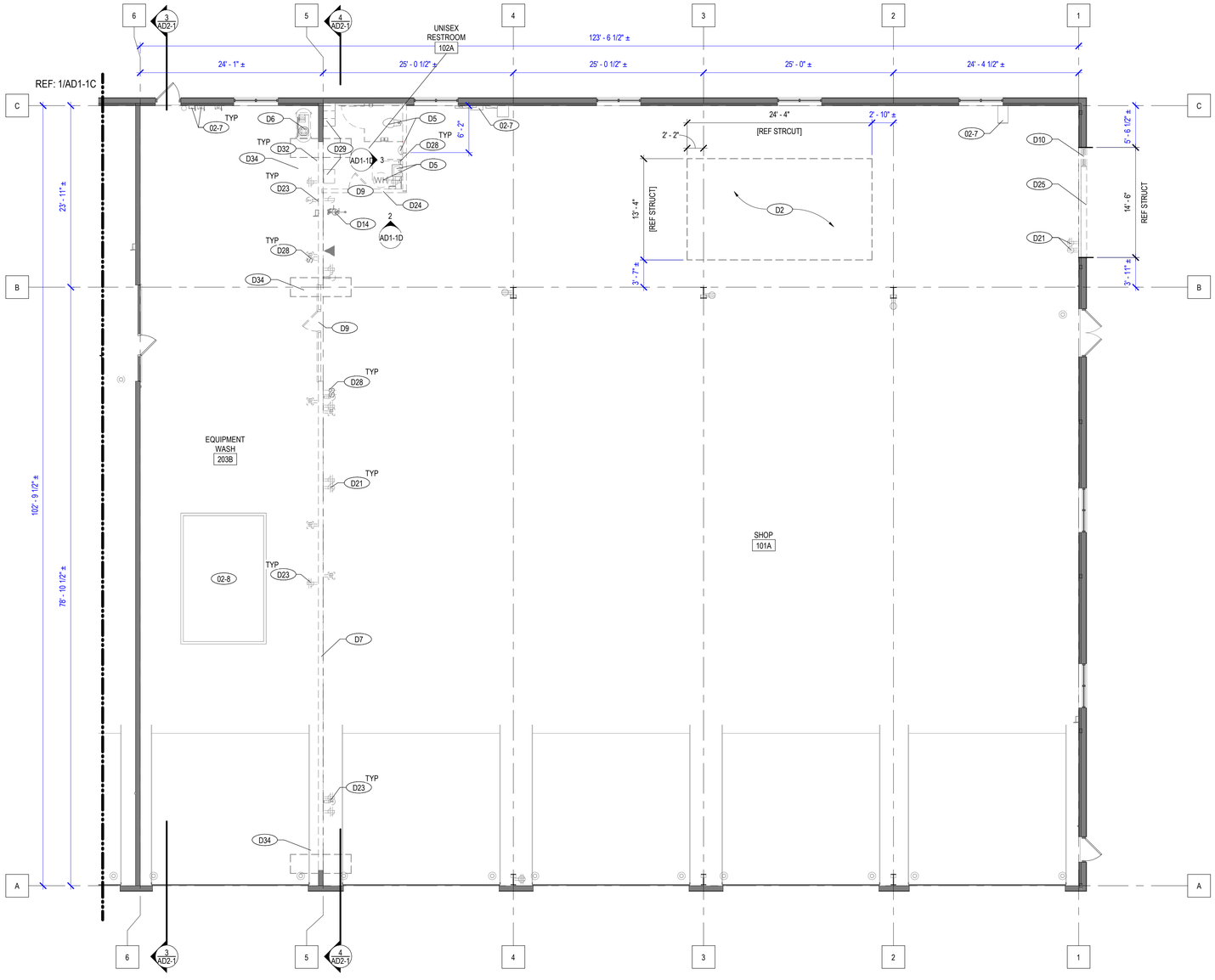
PROJECT #: 25034

SHEET #:

AD1-1C

Project Team:

Print Date: 2/4/2026 8:38:37 AM



DEMOLITION FLOOR PLAN - AREA D

NORTH

1 AD1-1D 1/8" = 1'-0"



INTERIOR ELEVATION

2 AD1-1D 1 1/2" = 1'-0"



INTERIOR DETAIL

3 AD1-1D 1 1/2" = 1'-0"

KEYNOTE LEGEND

02-7	EXIST ELEC EQUIPMENT [REF ELEC]
02-8	EXIST CONC FILLED PIT - VERIFY MTL EMBEDED ANGLE DOES NOT CONFICT WITH EQUIPMENT
D2	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW PIT. REFER TO STRUCT FOR PIT DESIGN AND WALL CONDITIONS. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR SPECIFIC PIT LOCATION AND DIMENSIONS. ACTUAL AREA OF CONC SLAB TO BE REMOVED SHALL BE COORDINATED BY GC WITH THE PERMANENT SHORING REQUIREMENTS PROVIDED BY OTHERS.
D5	REMOVE PLUMBING FIXTURE [REF PLBG]
D6	REMOVE EXIST MECHANICAL EQUIPMENT [REF MECH]
D7	REMOVE PORTION OF LOAD-BEARING MASONRY WALL AS INDICATED AND REQ'D [REF STRUCT]
D9	REMOVE DOOR AND FRAME
D10	REMOVE WINDOW AND FRAME
D14	SALVAGE EXISTING EYEWASH STATION FOR RELOCATION - REF RENOVATION DWGS FOR RELOCATION
D21	REMOVE EXISTING ELECTRICAL DEVICE - VERIFY EXACT LOCATION IN FIELD
D23	REMOVE THERMOSTAT DEVICE - VERIFY EXACT LOCATION IN FIELD
D24	REMOVE INTERIOR WD STUD WALLS - COORDINATE LOCATION AND EXTENTS W/ RECONSTRUCTION DWGS
D25	REMOVE PORTION OF EXTERIOR MTL BLDG WALL AS INDICATED
D28	REMOVE EXIST LIGHTING CONTROL - COORDINATE WITH ELEC FOR REROUTE IF APPLICABLE [REF ELEC]
D29	REMOVE EXIST CASEWORK
D32	REMOVE EXIST ELEC CONDUIT - VERIFY CONDUIT EXTENTS [REF ELEC]
D34	REMOVE PORTION OF EXIST 7" THICK CONC SLAB AS INDICATED AND REQ'D FOR NEW FNDS. VERIFY EXTENTS OF CONC REMOVAL TO ALLOW FOR INSTALL OF CONC PILE CAP [REF STRUCT]

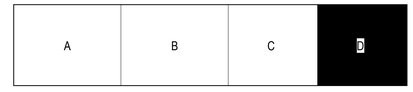
DEMOLITION LEGEND

- EXIST WALL
- REMOVE WALL
- EXIST DOOR
- REMOVE DOOR
- NO ARCHITECTURAL RENOVATION WORK
- AREA OF ARCHITECTURAL RENOVATION
- BID PACKAGE 02 CONSTRUCTION. NO WORK IN BID PACKAGE 01

GENERAL NOTES

1. DIMENSIONS ARE TO FINISH FACE OF WALLS, UNO.
2. DIMENSIONS ARE ROUGH ESTIMATES BASED ON AVAILABLE EXISTING INFORMATION. VERIFY MEASUREMENTS IN FIELD.
3. REFER TO AREA DEMOLITION PLANS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
4. NOT ALL CONDUIT, DEVICES, PIPING, ETC HAVE BEEN INDICATED IN THE DEMOLITION DRAWINGS. ANY OF THESE VERIFIED AS NO LONGER IN USE SHALL BE REMOVED BY THE CONTRACTOR WHEN NECESSARY FOR THE NEW WORK.
5. GRIDLINES ARE LOCATED ON F.O. COLUMNS AS INDICATED.

KEYPLAN



NORTH

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Interior Design
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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

DEMOLITION FLOOR PLAN - AREA D

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

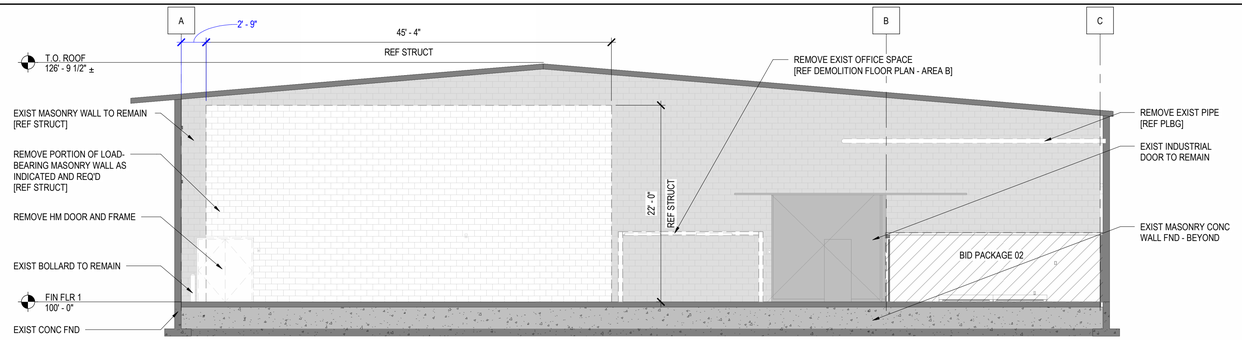
PROJECT #: 25034

SHEET #:

AD1-1D

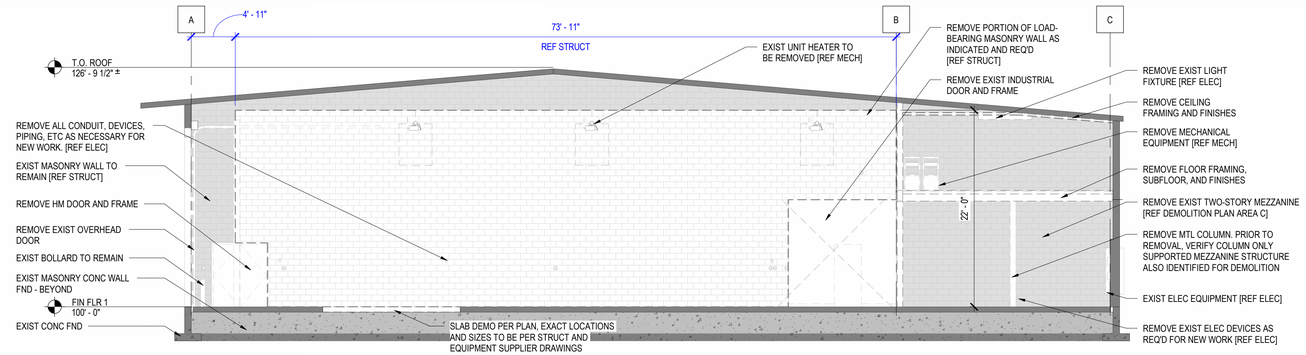
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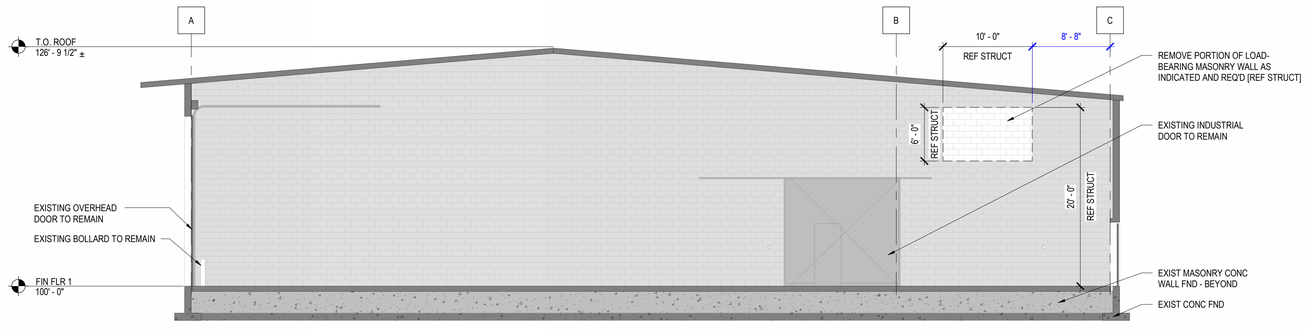
1 AD2-1 DEMOLITION BUILDING SECTION - GRIDLINE 17

1/8" = 1'-0"



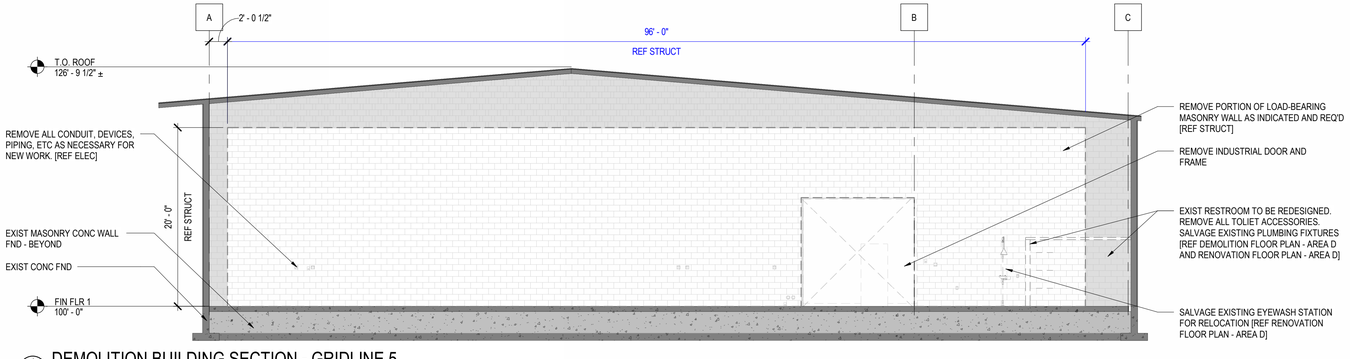
2 AD2-1 DEMOLITION BUILDING SECTION - GRIDLINE 11

1/8" = 1'-0"



3 AD2-1 DEMOLITION BUILDING SECTION - GRIDLINE 6

1/8" = 1'-0"



4 AD2-1 DEMOLITION BUILDING SECTION - GRIDLINE 5

1/8" = 1'-0"

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DEMOLITION BUILDING SECTIONS AND DETAILS

BP 01 - FOR CONSTRUCTION

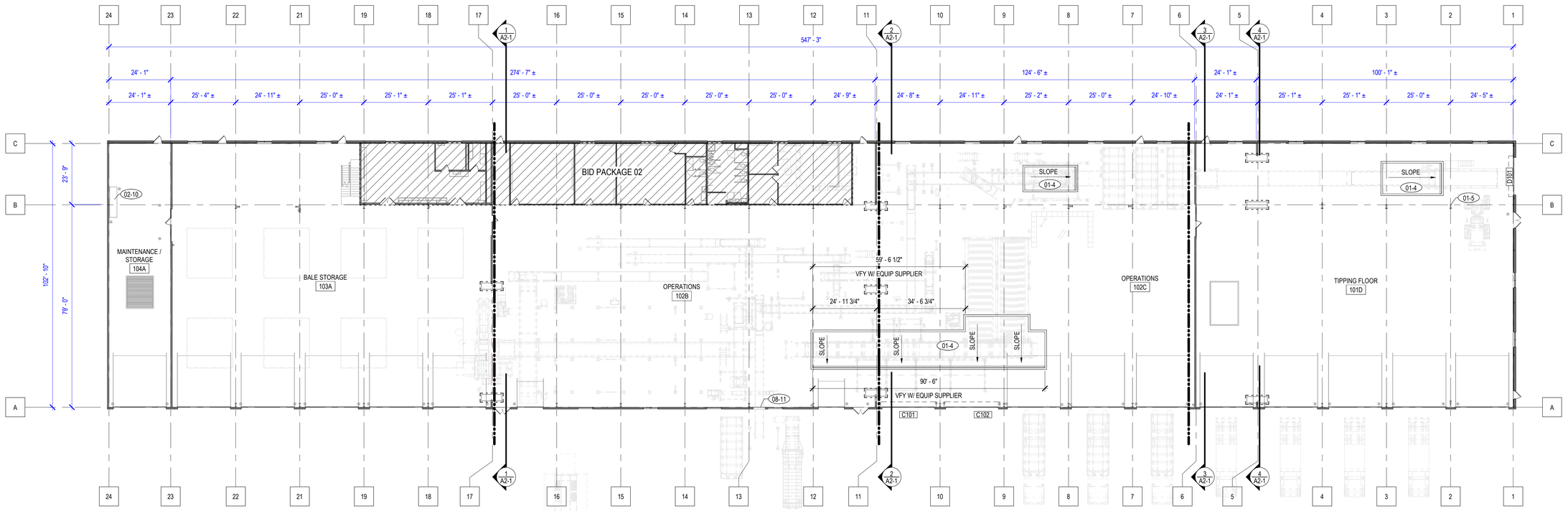
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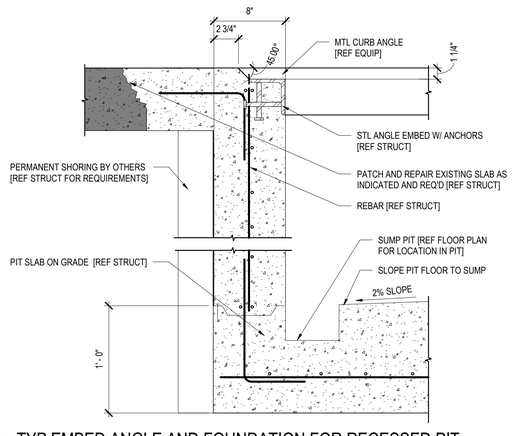
PROJECT #: 25034

SHEET #:

AD2-1



1 A1-1 FLOOR PLAN - OVERALL
NORTH 1" = 20'-0"



2 A1-1 TYP EMBED ANGLE AND FOUNDATION FOR RECESSED PIT
1 1/2" = 1'-0"

RENOVATION LEGEND

- EXIST WALL
- NEW WALL
- EXIST DOOR
- NEW DOOR
- NO ARCHITECTURAL RENOVATION WORK
- NEW CMU WALL
- PHASE 2 CONSTRUCTION. NO WORK IN BID PACKAGE 1

GENERAL NOTES

1. MTL FRAMING LOCATED ON GRID LINES ARE CENTERED ON THE GRID LINE UNO.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.
5. ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING

KEYNOTE LEGEND

01-4	REF STRUCT AND EQUIPMENT PIT DRAWINGS FOR FINAL REQUIRED DIMENSIONS
01-5	DATUM POINT [REFER TO OWNER COORDINATED EQUIPMENT DOCUMENTS]
02-10	EXIST WATER ENTRY [REF MECH]
08-11	NEW OPENING IN EXIST WALL FOR EQUIPMENT. VERIFY W/ OWNER COORDINATED EQUIPMENT DRAWINGS. [REF STRUCT]

KEYPLAN



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RENOVATION FLOOR PLAN - OVERALL

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

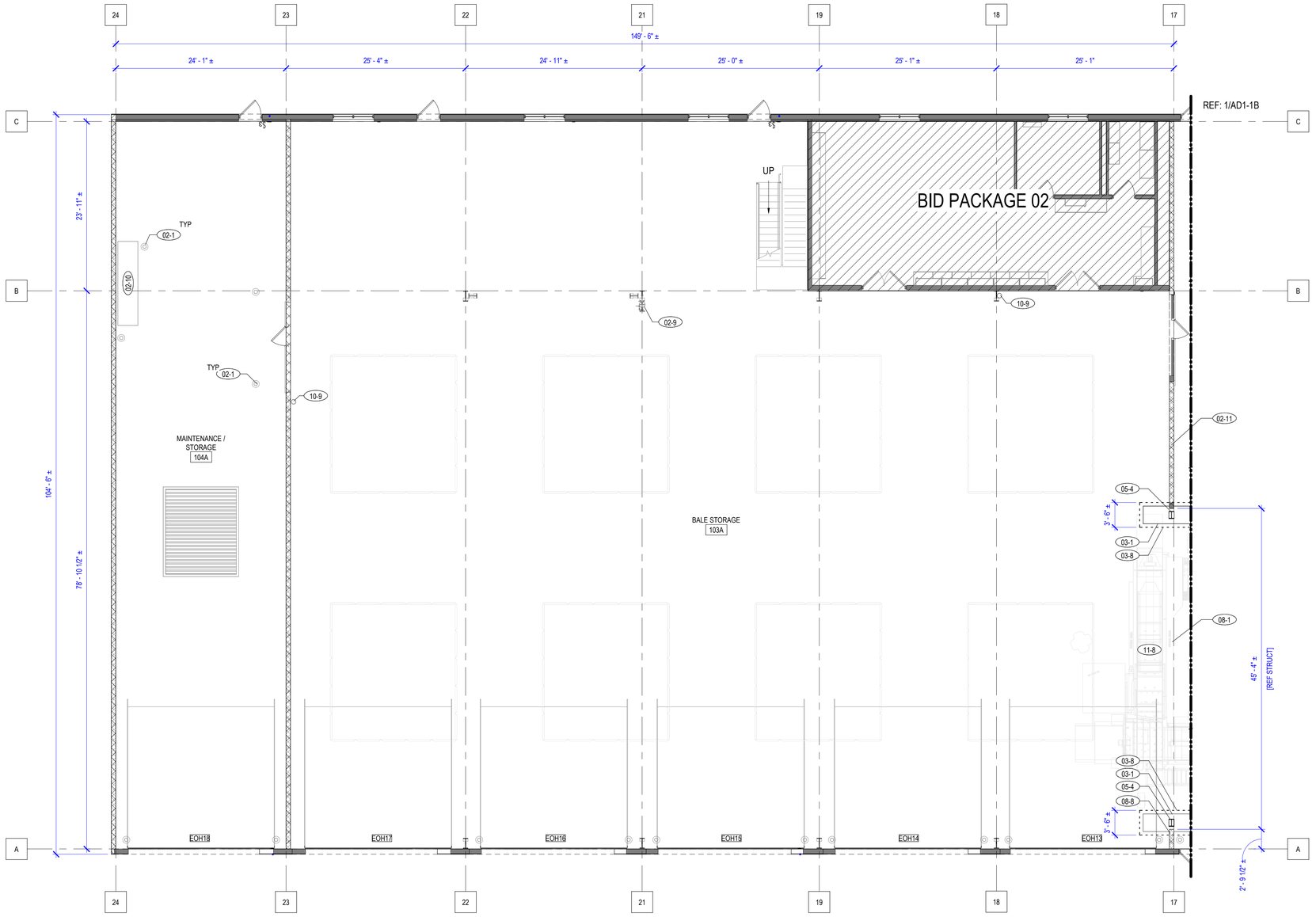
DATE: 2/2/2026

PROJECT #: 25034

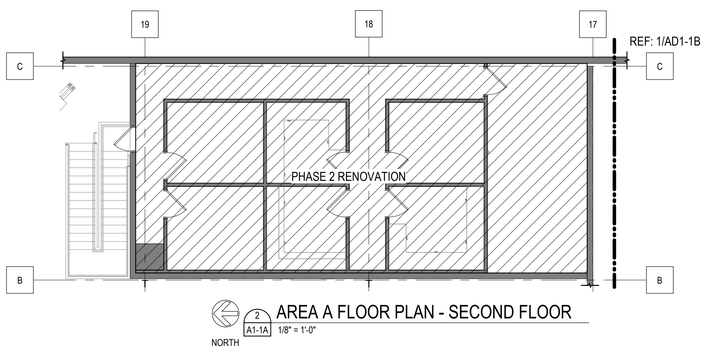
SHEET #:

A1-1

Project Team:
Print Date: 2/4/2026 8:38:48 AM



1 A1-1A AREA A FLOOR PLAN - FIRST FLOOR
1/8" = 1'-0"
NORTH



2 A1-1A AREA A FLOOR PLAN - SECOND FLOOR
1/8" = 1'-0"
NORTH

KEYNOTE LEGEND

02-1	EXIST BOLLARD TO REMAIN
02-9	EXIST EYEWASH STATION TO REMAIN
02-10	EXIST WATER ENTRY [REF MECH]
02-11	EXIST LOAD-BEARING MASONRY WALL
03-1	CONC PILE CAP [REF STRUCT]
03-8	APPROXIMATE AREA OF SLAB REPAIR POST PILE CAP INSTALL
05-4	STEEL COLUMN [REF STRUCT]
08-1	NEW OPENING IN EXIST LOAD-BEARING MASONRY WALL [REF STRUCT]
08-8	INFILL PORTION OF EXIST OPENING AS INDICTAED - MATCH EXISTING MASONRY [REF STRUCT]
10-9	FIRE EXTINGUISHER & WALL BRACKET
11-8	EQUIPMENT [REFER TO OWNER COORDINATED EQUIPMENT DOCUMENTS]

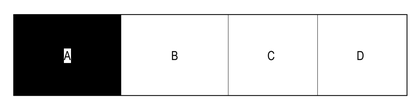
RENOVATION LEGEND

- EXIST WALL
- NEW WALL
- EXIST DOOR
- NEW DOOR
- NO ARCHITECTURAL RENOVATION WORK
- NEW CMU WALL
- PHASE 2 CONSTRUCTION. NO WORK IN BID PACKAGE 1

GENERAL NOTES

1. MTL FRAMING LOCATED ON GRID LINES ARE CENTERED ON THE GRID LINE UNO.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.
5. ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING

KEYPLAN



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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

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RENOVATION FLOOR PLAN - AREA A

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

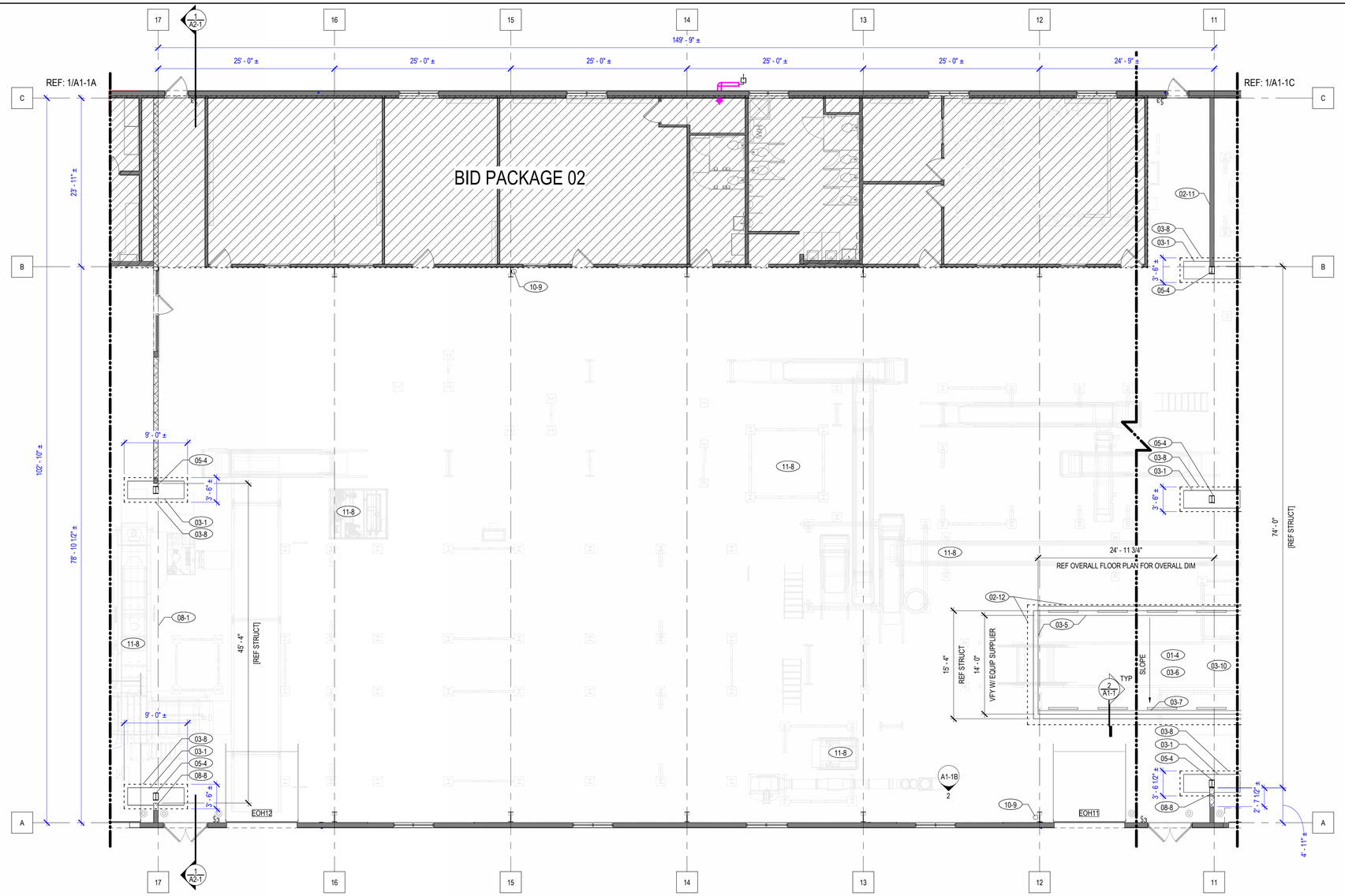
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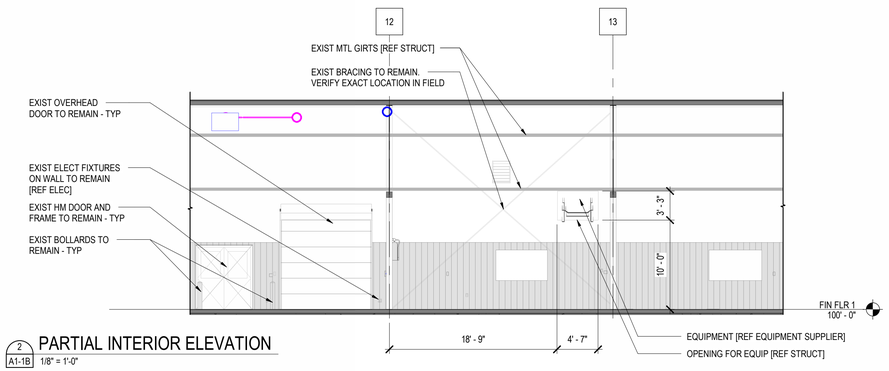
A1-1A

Project Team:
Print Date: 2/4/2026 8:38:50 AM



1 A1-1B RENOVATION FLOOR PLAN - AREA B
1/8" = 1'-0"

NORTH



2 A1-1B PARTIAL INTERIOR ELEVATION
1/8" = 1'-0"

KEYNOTE LEGEND

01-4	REF STRUCT AND EQUIPMENT PIT DRAWINGS FOR FINAL REQUIRED DIMENSIONS
02-11	EXIST LOAD-BEARING MASONRY WALL
02-12	PATCH AND REPAIR EXIST SLAB AS INDICATED AND REQ'D [REF STRUCT]
03-1	CONC PILE CAP [REF STRUCT]
03-5	8" CONC PIT FOUNDATION WALL [REF STRUCT]
03-6	NEW PIT IN EXIST SLAB [REF STRUCT]
03-7	SUMP PIT - SLOPE PIT FLOOR TO SUMP
03-8	APPROXIMATE AREA OF SLAB REPAIR POST PILE CAP INSTALL
03-10	PIT CONTINUES INTO AREA C. REFER TO AREA C FLOOR PLAN FOR CONTINUATION OF PIT. REFER TO OVERALL FLOOR PLAN FOR OVERALL EXTENTS AND LOCATION OF PIT
05-4	STEEL COLUMN [REF STRUCT]
08-1	NEW OPENING IN EXIST LOAD-BEARING MASONRY WALL [REF STRUCT]
08-8	INFILL PORTION OF EXIST OPENING AS INDICTAED - MATCH EXISTING MASONRY [REF STRUCT]
10-9	FIRE EXTINGUISHER & WALL BRACKET
11-8	EQUIPMENT [REFER TO OWNER COORDINATED EQUIPMENT DOCUMENTS]

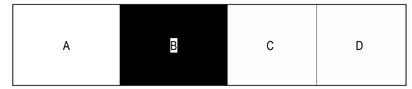
RENOVATION LEGEND

- EXIST WALL
- NEW WALL
- EXIST DOOR
- NEW DOOR
- NO ARCHITECTURAL RENOVATION WORK
- NEW CMU WALL
- PHASE 2 CONSTRUCTION. NO WORK IN BID PACKAGE 1

GENERAL NOTES

1. MTL FRAMING LOCATED ON GRID LINES ARE CENTERED ON THE GRID LINE UNO.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.
5. ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING

KEYPLAN



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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

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RENOVATION FLOOR PLAN - AREA B

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

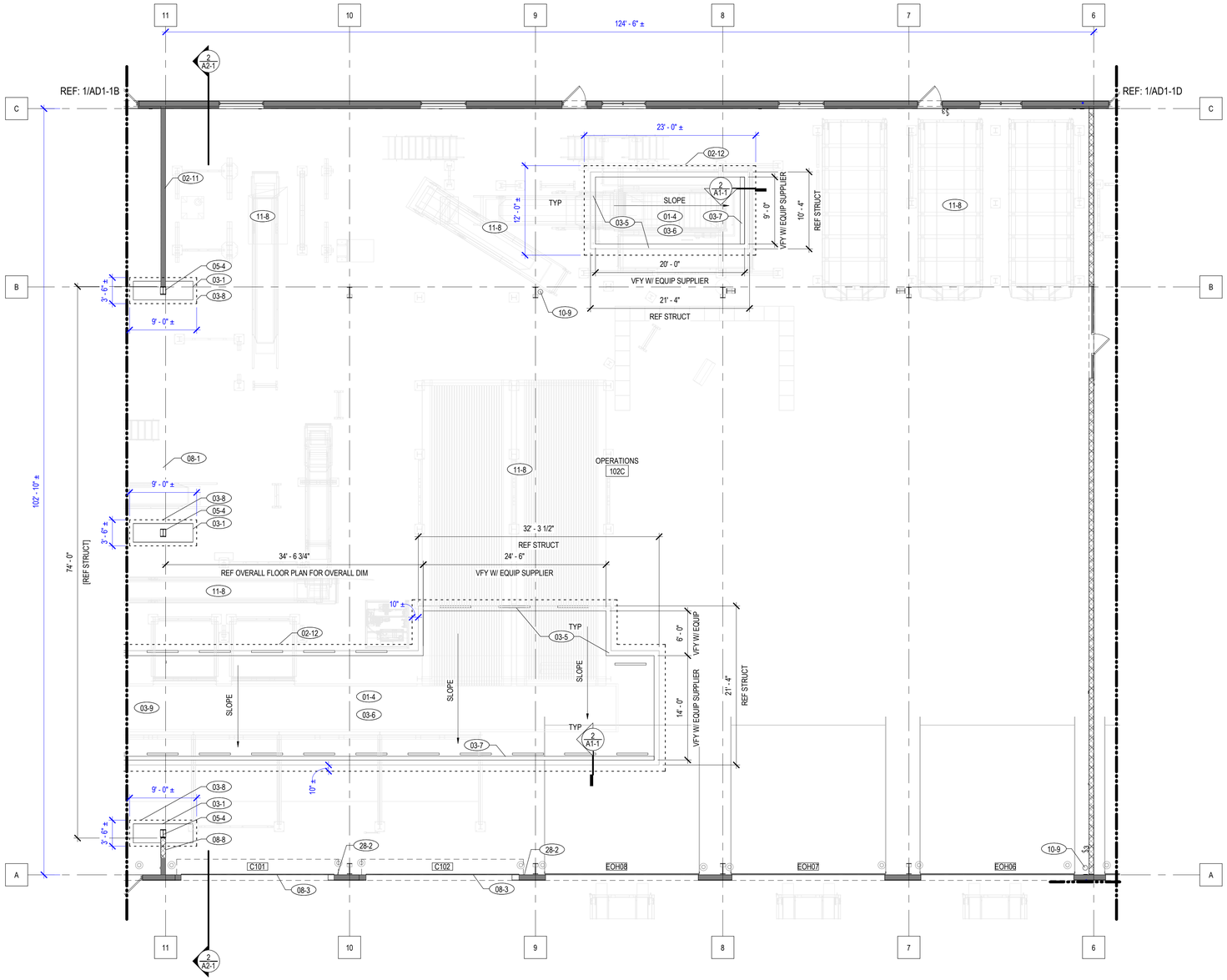
PROJECT #: 25034

SHEET #:

A1-1B

Project Team:

Print Date: 2/4/2026 8:38:55 AM



RENOVATION FLOOR PLAN - AREA C

NORTH

1 A1-1C 1/8" = 1'-0"

KEYNOTE LEGEND

01-4	REF STRUCT AND EQUIPMENT PIT DRAWINGS FOR FINAL REQUIRED DIMENSIONS
02-11	EXIST LOAD-BEARING MASONRY WALL
02-12	PATCH AND REPAIR EXIST SLAB AS INDICATED AND REQ'D [REF STRUCT]
03-1	CONC PILE CAP [REF STRUCT]
03-5	8" CONC PIT FOUNDATION WALL [REF STRUCT]
03-6	NEW PIT IN EXIST SLAB [REF STRUCT]
03-7	SUMP PIT - SLOPE PIT FLOOR TO SUMP
03-8	APPROXIMATE AREA OF SLAB REPAIR POST PILE CAP INSTALL
03-9	PIT CONTINUES INTO AREA B. REFER TO AREA B FLOOR PLAN FOR CONTINUATION OF PIT. REFER TO OVERALL FLOOR PLAN FOR OVERALL EXTENTS AND LOCATION OF PIT
05-4	STEEL COLUMN [REF STRUCT]
08-1	NEW OPENING IN EXIST LOAD-BEARING MASONRY WALL [REF STRUCT]
08-3	COILING DOOR
08-8	INFILL PORTION OF EXIST OPENING AS INDICTAED - MATCH EXISTING MASONRY [REF STRUCT]
10-9	FIRE EXTINGUISHER & WALL BRACKET
11-8	EQUIPMENT [REFER TO OWNER COORDINATED EQUIPMENT DOCUMENTS]
28-2	NEW DOOR CONTROL STATION IN SIM LOCATION AS EXIST. VERIFY IN FIELD. [REF ELEC]

RENOVATION LEGEND

- EXIST WALL
- NEW WALL
- EXIST DOOR
- NEW DOOR
- NO ARCHITECTURAL RENOVATION WORK
- NEW CMU WALL
- PHASE 2 CONSTRUCTION. NO WORK IN BID PACKAGE 1

GENERAL NOTES

1. MTL FRAMING LOCATED ON GRID LINES ARE CENTERED ON THE GRID LINE UNO.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.
5. ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING

KEYPLAN

A	B	C	D

NORTH

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RENOVATION FLOOR PLAN - AREA C

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

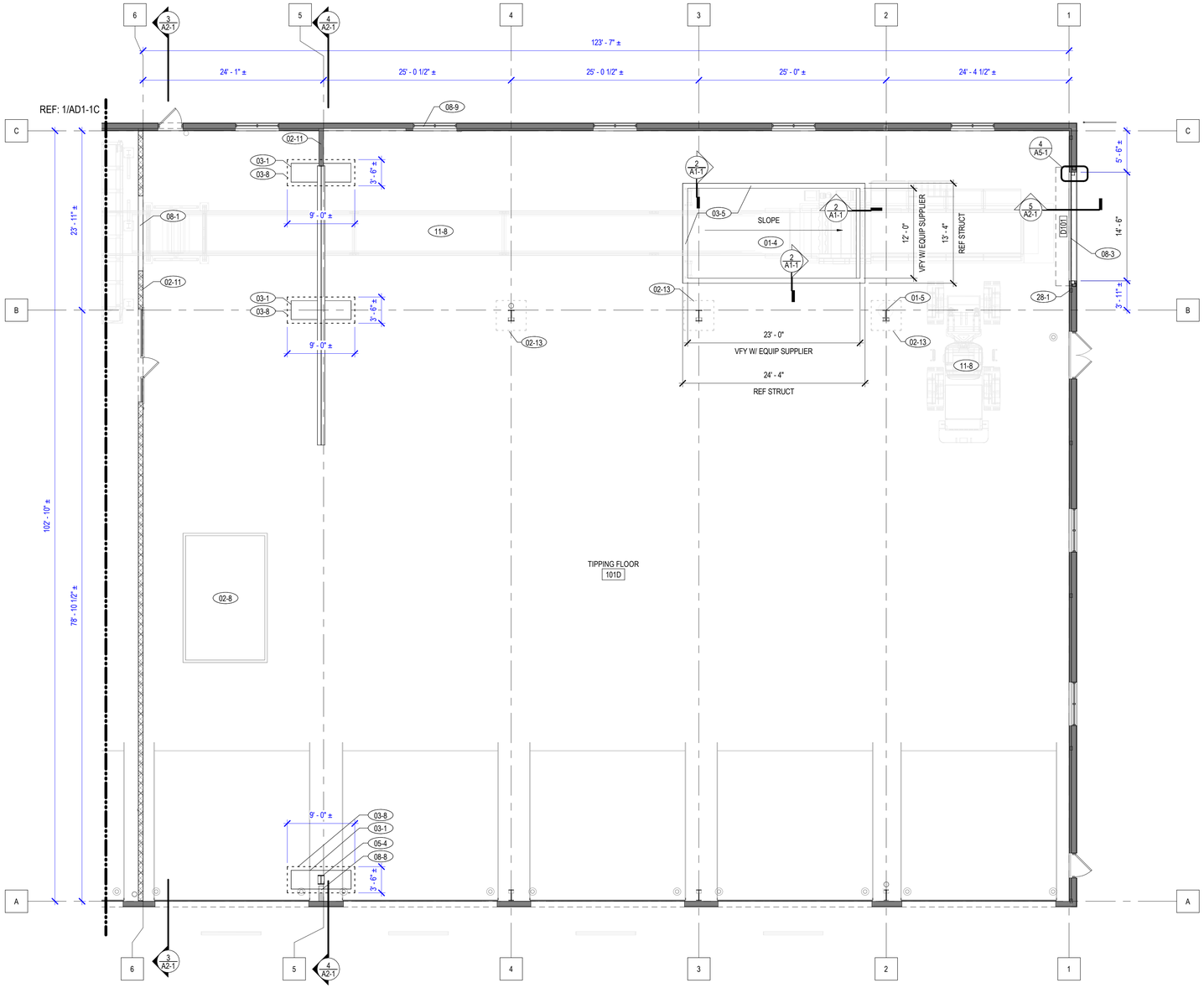
PROJECT #: 25034

SHEET #:

A1-1C

Project Team:

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RENOVATION FLOOR PLAN - AREA D

NORTH

1/8" = 1'-0"

KEYNOTE LEGEND

01-4	REF STRUCT AND EQUIPMENT PIT DRAWINGS FOR FINAL REQUIRED DIMENSIONS
01-5	DATUM POINT [REFER TO OWNER COORDINATED EQUIPMENT DOCUMENTS]
02-8	EXIST CONC FILLED PIT - VERIFY MTL EMBEDED ANGLE DOES NOT CONFICT WITH EQUIPMENT
02-11	EXIST LOAD-BEARING MASONRY WALL
02-13	EXIST MTL FRAME FND - BEYOND
03-1	CONC PILE CAP [REF STRUCT]
03-5	8" CONC PIT FOUNDATION WALL [REF STRUCT]
03-8	APPROXIMATE AREA OF SLAB REPAIR POST PILE CAP INSTALL
05-4	STEEL COLUMN [REF STRUCT]
08-1	NEW OPENING IN EXIST LOAD-BEARING MASONRY WALL [REF STRUCT]
08-3	COILING DOOR
08-8	INFILL PORTION OF EXIST OPENING AS INDICTAED - MATCH EXISTING MASONRY [REF STRUCT]
08-9	ADD PRIVACY FILM ON EXIST WINDOW
11-8	EQUIPMENT [REFER TO OWNER COORDINATED EQUIPMENT DOCUMENTS]
28-1	NEW DOOR CONTROL STATION [REF ELEC]

RENOVATION LEGEND

- EXIST WALL
- NEW WALL
- EXIST DOOR
- NEW DOOR
- NO ARCHITECTURAL RENOVATION WORK
- NEW CMU WALL
- PHASE 2 CONSTRUCTION. NO WORK IN BID PACKAGE 1

GENERAL NOTES

1. MTL FRAMING LOCATED ON GRID LINES ARE CENTERED ON THE GRID LINE UNO.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.
5. ALL ITEMS ARE NEW UNLESS NOTED AS EXISTING

KEYPLAN

A	B	C	D

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RENOVATION FLOOR PLAN - AREA D

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

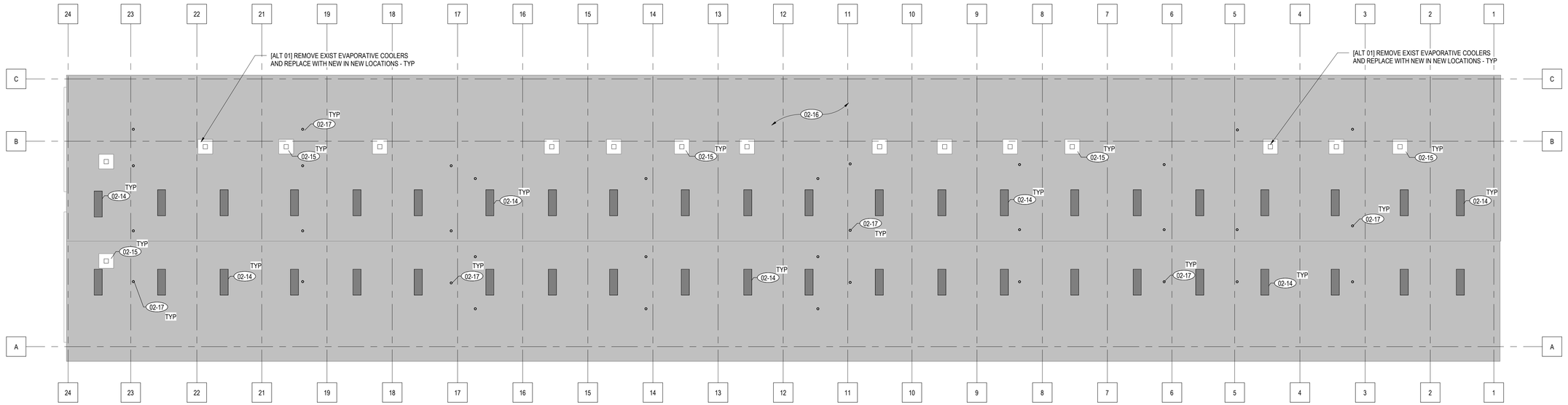
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A1-1D

Project Team:

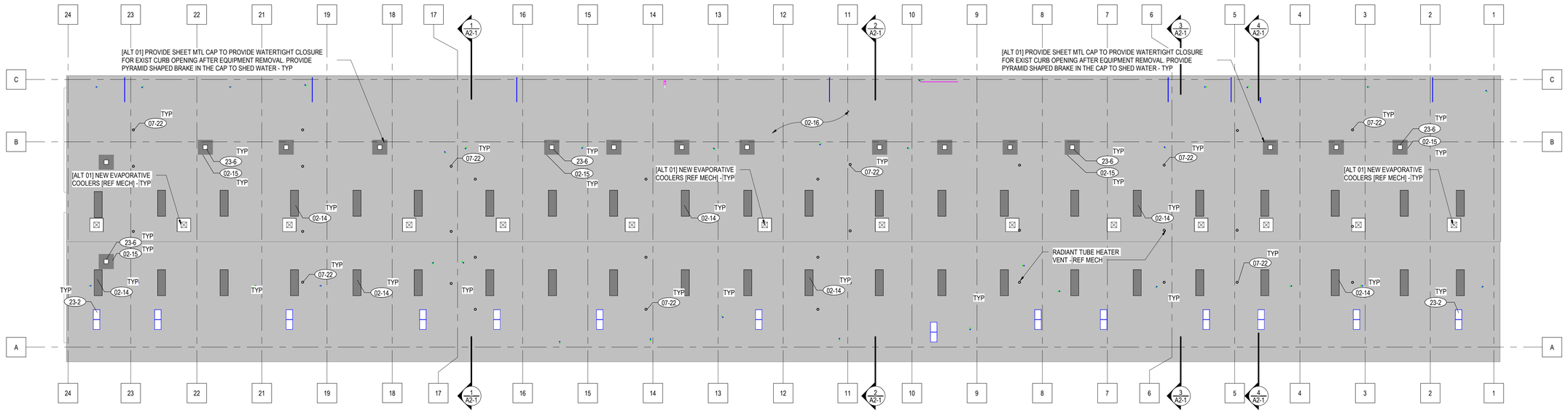
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NORTH

1 A1-2 1" = 20'-0"

DEMO ROOF PLAN



NORTH

2 A1-2 1" = 20'-0"

ROOF PLAN

KEYNOTE LEGEND	
02-14	EXIST SKYLIGHT ROOF PANEL TO REMAIN - TYP
02-15	EXIST EVAPORATIVE COOLERS TO REMAIN. REMOVE EXISTING DUCTING AND REPLACE WITH NEW [REF MECH]
02-16	EXIST ROOF - VIF
02-17	EXIST RADIANT TUBE HEATER VENT [REF MECH]
07-22	PROVIDE SHEET MTL CAP TO ENCLOSE EXIST PENENTRATION. PATCH AND REPAIR AFTER REMOVAL OF EXIST MECH EQUIP AS REQ'D - TYP
23-2	MAKE UP AIR ROOF JACK [REF MECH]
23-6	NEW DUCT [REF MECH]

KEYPLAN

A	B	C	D

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ROOF PLAN

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

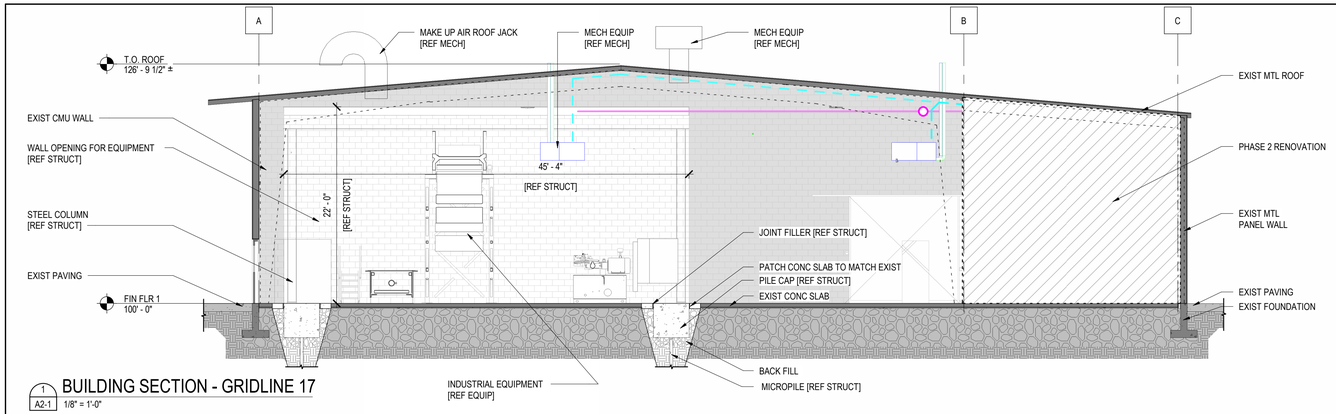
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A1-2

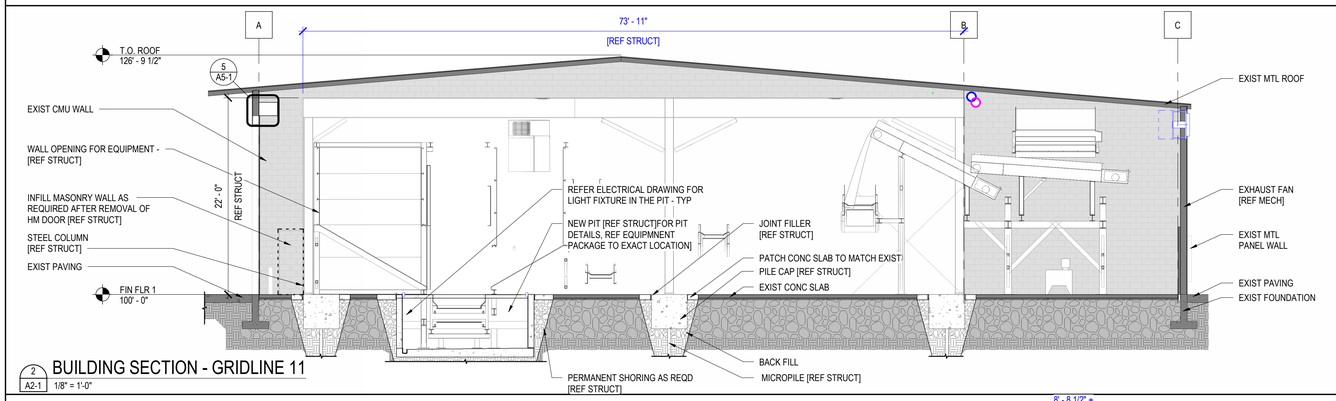
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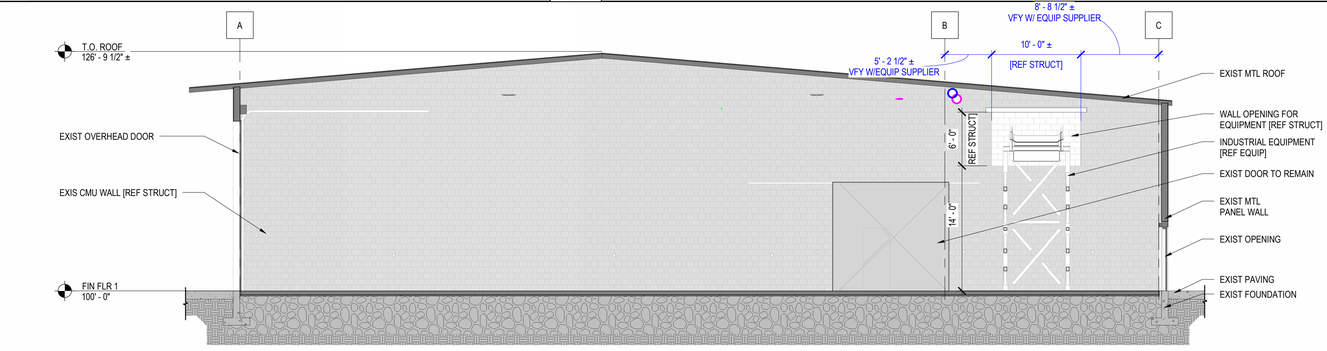
1 A2-1 BUILDING SECTION - GRIDLINE 17

1/8" = 1'-0"



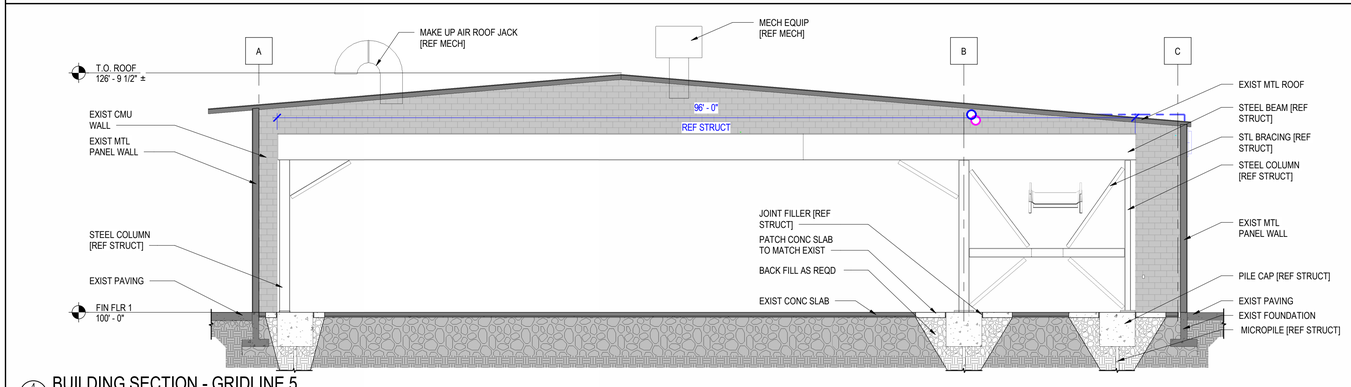
2 A2-1 BUILDING SECTION - GRIDLINE 11

1/8" = 1'-0"



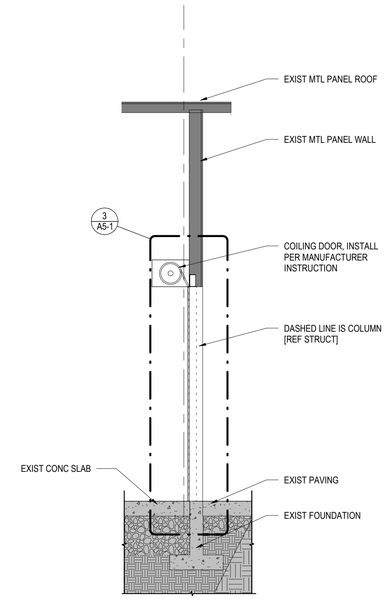
3 A2-1 BUILDING SECTION - GRIDLINE 6

1/8" = 1'-0"



4 A2-1 BUILDING SECTION - GRIDLINE 5

1/8" = 1'-0"



5 A2-1 WALL DETAIL AT COILING DOOR

1/4" = 1'-0"

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

RENOVATION BUILDING SECTIONS AND DETAILS

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

A2-1

Project Team:

Print Date: 2/4/2026 8:39:03 AM

DOOR SCHEDULE

DOOR NUMBER	DOOR SIZE		DOOR TYPE				RATING	HDW GROUP	FRAME TYPE						COMMENTS
	WIDTH	HEIGHT	TYPE	MATL	GLAZING	FINISH			TYPE	MATL	FINISH	JAMB DETAIL	HEAD DETAIL	SILL / THRESHOLD	
C101	20' - 6"	20' - 0"	G	STL	- -	PNT	- -	PER MFR	- -	STL	PNT	4/A5-1 SIM	5/A5-1	EXIST	1,4
C102	20' - 6"	20' - 0"	G	STL	- -	PNT	- -	PER MFR	- -	STL	PNT	4/A5-1 SIM	5/A5-1	EXIST	1,4
D101	14' - 6"	12' - 0"	G	STL	- -	PNT	- -	PER MFR	- -	STL	PNT	4/A5-1	3/A5-1	3/A5-1	1,4
EOH01	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	3, NO WORK
EOH02	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	3, NO WORK
EOH03	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	3, NO WORK
EOH04	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH05	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH06	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH07	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH08	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH09	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH10	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH11	10' - 0"	10' - 0"	EXIST	EXIST		EXIST	- -	EXIST		EXIST	EXIST	EXIST	EXIST	EXIST	3, NO WORK
EOH12	10' - 0"	10' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH13	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH14	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH15	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH16	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH17	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK
EOH18	20' - 6"	20' - 0"	EXIST	EXIST	- -	EXIST	- -	EXIST	- -	EXIST	EXIST	EXIST	EXIST	EXIST	2,3,NO WORK

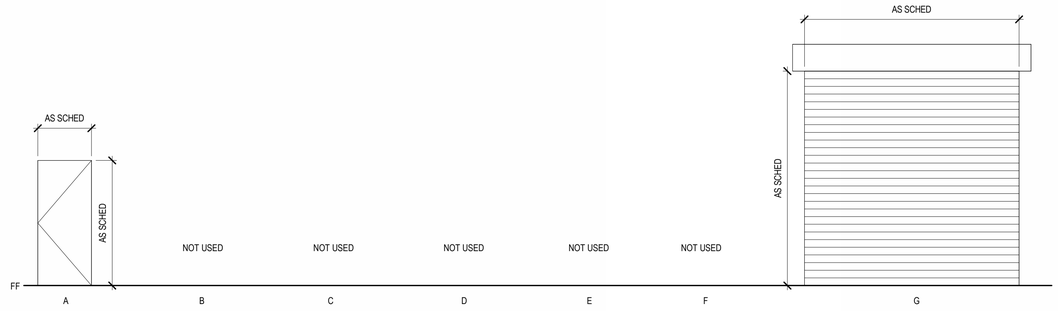
DOOR SCHEDULE GENERAL NOTES

1. FRAME ELEVATIONS INDICATED ARE BASED UPON NOMINAL DIMENSIONS. FIELD VERIFY DIMENSIONS OF ACTUAL ROUGH OPENINGS.
2. ALL GLAZING IS TO BE TYPE GL-2, UNO.
3. ALL INTERIOR HOLLOW METAL DOORS & FRAMES ARE TO BE PNT (ALL SIDES).

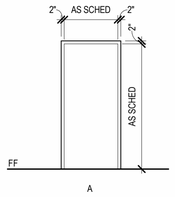
DOOR SCHEDULE COMMENTS

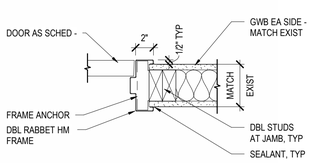
1. PROVIDE ADA COMPLIANT AUTOMATIC OPERATOR
2. EXIST AUTOMATIC OPERATOR
3. OVERHEAD SECTIONAL DOOR
4. OVERHEAD COILING DOOR
5. NEW DOOR

DOOR TYPE

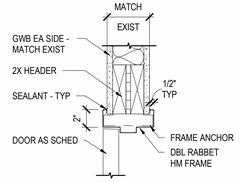


FRAME TYPES

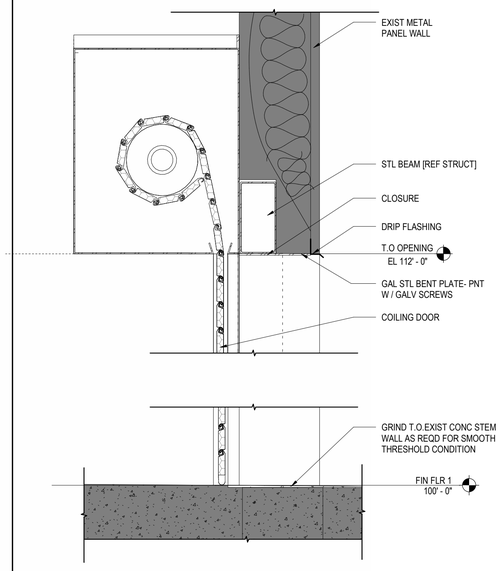




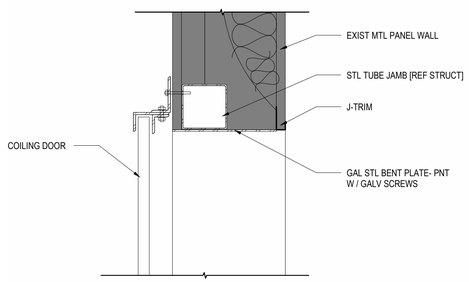
1 A5-1 JAMB DETAIL
1 1/2" = 1'-0"



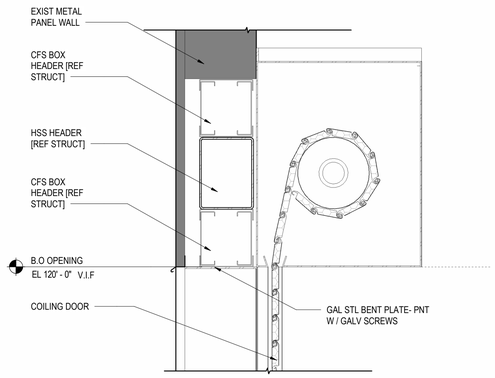
2 A5-1 HEAD DETAIL
1 1/2" = 1'-0"



3 A5-1 COILING DOOR HEAD / SILL DETAIL
1 1/2" = 1'-0"



4 A5-1 JAMB DETAIL
1 1/2" = 1'-0"



5 A5-1 HEAD DETAIL
1 1/2" = 1'-0"

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DOOR SCHEDULE AND DETAILS

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

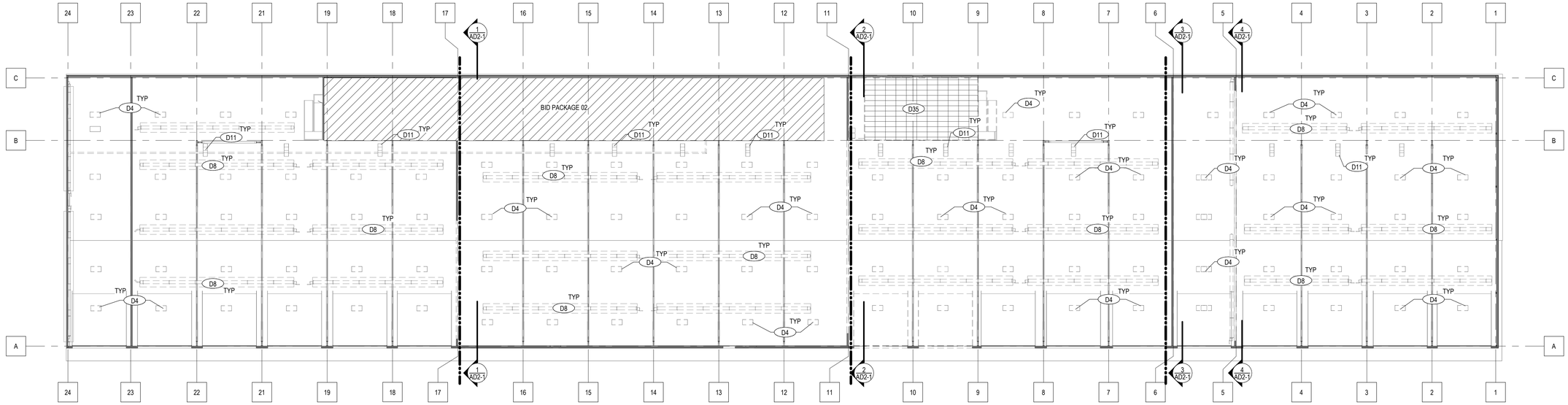
PROJECT #: 25034

SHEET #:

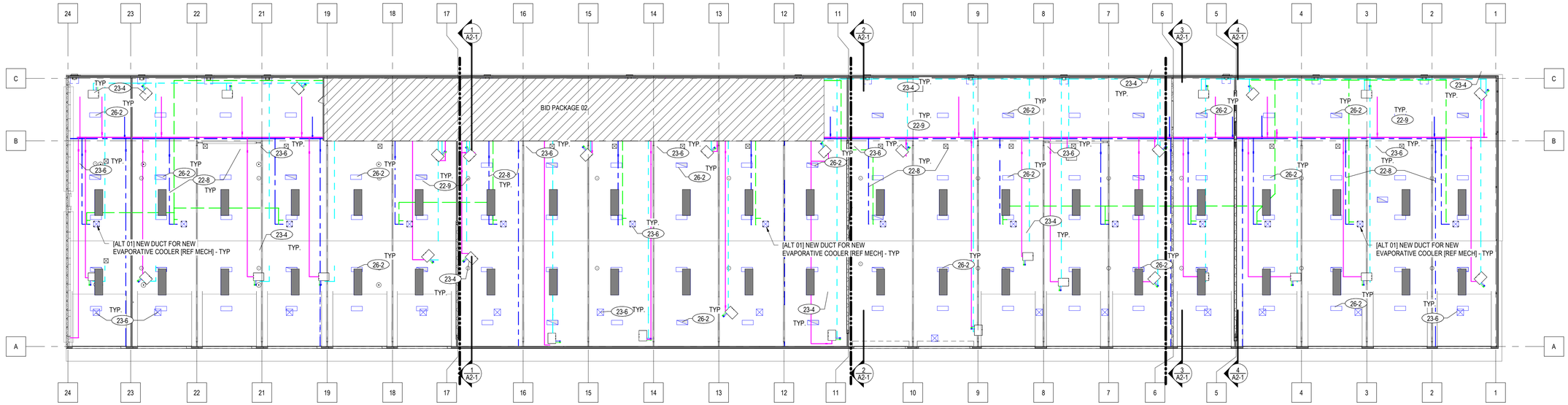
A5-1

Project Team:

Print Date: 2/4/2026 8:39:05 AM



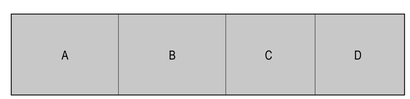
2 A6-1 DEMO REFLECTED CEILING PLAN
1" = 20'-0"
NORTH



1 A6-1 REFLECTED CEILING PLAN
1" = 20'-0"
NORTH

KEYNOTE LEGEND	
22-8	DOMESTIC WATER LINE [REF PLBG]
22-9	GAS LINE [REF PLBG]
23-4	UNIT HEATER [REF MECH]
23-6	NEW DUCT [REF MECH]
26-2	LIGHT FIXTURE [REF ELEC]
D4	REMOVE EXISTING LIGHTING FIXTURE [REF ELEC]
D8	REMOVE EXIST INFRARED TUBE HEATERS [REF MECH]
D11	REMOVE EXISTING EVAPORATIVE COOLER ASSOCIATED DUCTWORK - EXIST EVAPORATIVE COOLER UNIT TO REMAIN [REF MECH]
D35	REMOVE EXISTING CEILING FRAMING AND FINISHES

KEYPLAN



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365 32 RD, GRAND JUNCTION, CO 81520

REFLECTED CEILING PLANS

BP 01 - FOR CONSTRUCTION

REV.	DESC.	DATE:

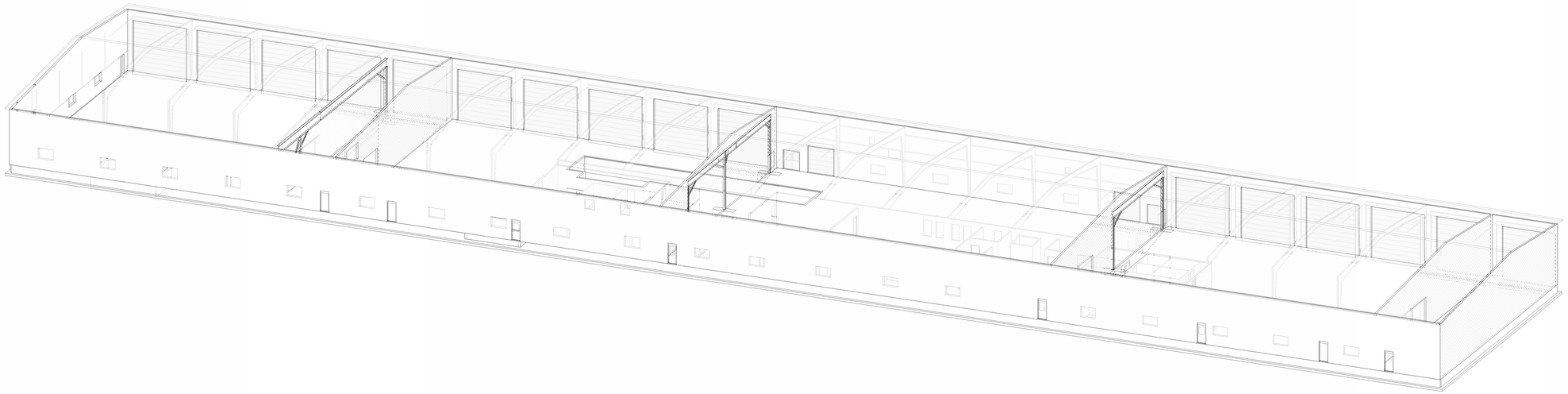
DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

A6-1

Project Team:
Print Date: 2/4/2026 8:39:07 AM



1
S0-0

3D RENDERING

STRUCTURAL ABBREVIATIONS		STRUCTURAL ABBREVIATIONS		STRUCTURAL ABBREVIATIONS	
@	AT	EXIST OR (E)	EXISTING	OH	OPPOSITE HAND
AB	ANCHOR BOLT	EXP	EXPANSION	OPNG	OPENING
ADDNL	ADDITIONAL	EXT	EXTERIOR	OPP	OPPOSITE
AFF	ABOVE FINISHED FLOOR	FAB	FABRICATION	OSB	ORIENTED STRAND BOARD
AL	ALUMINUM	FDN	FOUNDATION	OVS	OVERSIZED
ALT	ALTERNATE	FF	FAR FACE OR FINISHED FLOOR	PAF	POWER ACTUATED FASTENER
APPROX	APPROXIMATE	FLG	FLANGE	PC	PRECAST
ARCH	ARCHITECT OR ARCHITECTURAL	FLR	FLOOR	PCF	POUNDS PER CUBIC FOOT
AVE	AVERAGE	FS	FAR SIDE	PE	PRE-ENGINEERED
B/ OR BO	BOTTOM OF	FT	FOOT OR FEET	PERP	PERPENDICULAR
BAL	BALANCE	FTG	FOOTING	PJP	PARTIAL JOINT PENETRATION
BLDG	BUILDING	GA	GAGE OR GAUGE	PL	PLATE
BLKG	BLOCK OR BLOCKING	GALV	GALVANIZED	PLF	POUNDS PER LINEAR FOOT
BM	BEAM	GB	GRADE BEAM	PSF	POUNDS PER SQUARE FOOT
BOC	BOTTOM OF CONCRETE	GC	GENERAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH
BOD	BOTTOM OF DECK	GLU-LAM	GLUE LAMINATED	PSL	PARALLEL STRAND LUMBER
BOS	BOTTOM OF STEEL	GR	GRADE	PT	PRESSURE TREATED
BOT	BOTTOM	H.A.S.	HEADED ANCHOR STUD	QTY	QUANTITY
BP	BASE PLATE	HORIZ	HORIZONTAL	RE: OR REF	REFER TO (REFERENCE)
BRG	BEARING	HT	HEIGHT	REINF	REINFORCED OR REINFORCING
BTWN	BETWEEN	I.F.	INSIDE FACE	REQD	REQUIRED
CANT	CANTILEVER	ID	INSIDE DIAMETER	REQT(s)	REQUIREMENTS
CC	CENTER TO CENTER	IN	INCH OR INCHES	RO	ROUGH OPENING
CFMF	COLD FORMED METAL FRAMING	INFO	INFORMATION	ROF	RANDOM ORIENTED FIBER
CFMS	COLD FORMED METAL STUDS	INT	INTERIOR	SCHED	SCHEDULE
CIP	CAST IN PLACE	ISO	ISOLATION	SECT	SECTION
CJ	CONTROL JOINT OR CONSTRUCTION JOINT	JST	JOIST	SIM	SIMILAR
CL	CENTER LINE	JT	JOINT	SIP	STRUCTURALLY INSULATED PANEL
CLG	CEILING	K	KIP = 1000 LBS	SLRS	SEISMIC LOAD RESISTING SYSTEM
CLR	CLEAR	LB(S)	POUND(S)	SOG	SLAB-ON-GRADE
CMU	CONCRETE MASONRY UNIT	LCD	COMPRESSION DEVELOPMENT LENGTH	SOV	SLAB-ON-VOID
COL	COLUMN	LCS	COMPRESSION LAP SPLICE LENGTH	SP(S)	SPACE(S)
CONC	CONCRETE	LDH	HOOK DEVELOPMENT LENGTH	SPECS	SPECIFICATIONS
CONN	CONNECT OR CONNECTION	LL	LIVE LOAD	SQ	SQUARE
CONST	CONSTRUCTION	LLH	LONG LEG HORIZONTAL	STD	STANDARD
CONT	CONTINUOUS	LLV	LONG LEG VERTICAL	STIFF	STIFFENER
CONTR	CONTRACTOR	LOC	LOCATION	STL	STEEL
CTR(D)	CENTER(ED)	LONG.	LONGITUDINAL	STR	STRUCTURE OR STRUCTURAL
DBA	DEFORMED BAR ANCHOR	LSH	LONG SIDE HORIZONTAL	T&B	TOP AND BOTTOM
DBL	DOUBLE	LSL	LAMINATED STRAND LUMBER	T&G	TONGUE AND GROOVE
DFS	DEFERRED SUBMITTAL	LSV	LONG SIDE VERTICAL	T.O. OR T/	TOP OF
DIA OR Ø	DIAMETER	LTD	TENSION DEVELOPMENT LENGTH/CLASS A TENSION LAP SPLICE LENGTH	TBR	TO BE REMOVED
DIAG	DIAGONAL			THK	THICK OR THICKNESS
DIM	DIMENSION	LTS	TENSION LAP SPLICE LENGTH (CLASS B)	TL	TOTAL LOAD
DL	DEAD LOAD	LVL	LAMINATED VENEER LUMBER	TOC	TOP OF CONCRETE
DN	DOWN	LWC	LIGHTWEIGHT CONCRETE	TOF	TOP OF FOOTING
DP	DEEP	MAX	MAXIMUM	TOM	TOP OF MASONRY
DTL	DETAIL	MECH	MECHANICAL	TOPG	TOPPING
DWG	DRAWING	MEP	MECH/ELEC/PLUMB	TOS	TOP OF STEEL
DWL	DOWEL	MFR	MANUFACTURER	TR	TRUSS
E-W	EAST WEST	MID	MIDDLE	TYP	TYPICAL
EA	EACH	MIN	MINIMUM	ULT	ULTIMATE
EE	EACH END	MISC	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
EF	EACH FACE	MTL	METAL	VERT	VERTICAL
EJ	EXPANSION JOINT	N-S	NORTH SOUTH	VIF	VERIFY IN FIELD
ELEC	ELECTRICAL	NF	NEAR FACE	W/	WITH
ELEV	ELEVATION OR ELEVATOR	NO. OR #	NUMBER	W/O	WITHOUT
ENGR	ENGINEER	NS	NEAR SIDE	WD	WOOD
EOR	ENGINEER OF RECORD	NTS	NOT TO SCALE	WP	WORK POINT
EQ	EQUAL	NWC	NORMAL-WEIGHT CONCRETE	WT	WEIGHT
EQUIV	EQUIVALENT	O.F.	OUTSIDE FACE	WWF	WELDED WIRE FABRIC
ES	EACH SIDE	OC	ON CENTER	WWR	WELDED WIRE REINFORCING
EW	EACH WAY	OD	OUTSIDE DIAMETER		

STRUCTURAL DRAWING INDEX

SHEET NUMBER	SHEET NAME
S0-0	COVER SHEET
S0-1	GENERAL NOTES
S0-2	GENERAL NOTES
S0-3	SPECIAL INSPECTIONS
SD1-0	OVERALL FOUNDATION DEMO PLAN
SD1-1A	FOUNDATION DEMO PLAN - AREA A
SD1-1B	FOUNDATION DEMO PLAN - AREA B
SD1-1C	FOUNDATION DEMO PLAN - AREA C
SD1-1D	FOUNDATION DEMO PLAN - AREA D
SD2-1	DEMO - WALL ELEVATIONS
SD2-2	DEMO - WALL ELEVATIONS
SD2-3	DEMO - WALL ELEVATIONS
S1-0	OVERALL FOUNDATION PLAN
S1-1A	FOUNDATION PLAN - AREA A
S1-1B	FOUNDATION PLAN - AREA B
S1-1C	FOUNDATION PLAN - AREA C
S1-1D	FOUNDATION PLAN - AREA D
S1-3	OVERALL ROOF PLAN
S2-1	WALL ELEVATIONS
S2-2	WALL ELEVATIONS
S2-3	WALL ELEVATIONS
S3-1	FOUNDATION DETAILS
S4-1	MASONRY DETAILS
S5-1	STEEL DETAILS
S5-2	STEEL DETAILS

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HCL ENGINEERS•SURVEYORS•ARCHITECTS
HCL Engineering & Surveying, LLC
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HCLengineering.com

GRAND JUNCTION MATERIALS RECOVERY FACILITY RENOVATION

365 32 RD, GRAND JUNCTION, CO 81520

COVER SHEET

BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026

PROJECT #: 250182

SHEET #:

S0-0

Project Team:

Print Date: 2/2/2026 5:53:11 PM

00-PROJECT DESCRIPTION

THE PROJECT CONSISTS OF RENOVATING THE EXISTING BUILDING TO BE USED AS A MATERIAL RECYCLING FACILITY. THE RENOVATION INCLUDES REMOVING PORTIONS OF EXISTING MASONRY SHEAR WALLS AND REPLACING WITH STEEL FRAMES TO SUPPORT REMAINING WALL ABOVE OPENINGS AND PROVIDE LATERAL SUPPORT. RECESSED PITS ARE REQUIRED FOR LARGE AUTOMATED SORTING EQUIPMENT TO FIT INSIDE EXISTING BUILDING ENVELOPE.

01-GENERAL REQUIREMENTS

1. **GOVERNING DESIGN CODES & STANDARDS:**
   - A. AUTHORITY HAVING JURISDICTION: MESA COUNTY
   - B. GENERAL:
     - a. 2024 IBC: "INTERNATIONAL BUILDING CODE, 2024"
   - C. LOADS:
     - a. ASCE 7-22: "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
   - D. CONCRETE:
     - a. ACI 318-19: "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
   - E. MASONRY:
     - a. TMS 402-22: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
     - b. TMS 602-22: "SPECIFICATION FOR MASONRY STRUCTURES"
   - F. STEEL:
     - a. AISC 360-22: "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
     - b. DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN (LRFD)
2. **SPECIAL INSPECTION REQUIREMENTS AND QUALITY CONTROL:**
   - *A.* SEE "STATEMENT OF SPECIAL INSPECTIONS" FOLLOWING GENERAL NOTES FOR INSPECTION REQUIREMENTS.
3. **REQUIRED SUBMITTALS:**
   - A. SUBMIT SHOP DRAWINGS, CALCULATIONS, PRODUCT DATA AND OTHER PERTINENT INFORMATION FOR THE FOLLOWING ITEMS FOR REVIEW BY THE ARCHITECT AND ENGINEER. WORK SHALL NOT PROCEED UNTIL ALL SUBMITTALS RELATED TO THE WORK HAVE BEEN REVIEWED AND ACCEPTED. THE CONTRACTOR SHALL SUBMIT COPIES OF ALL SUBMITTALS TO THE BUILDING DEPARTMENT AFTER REVIEW BY THE ARCHITECT AND/OR ENGINEER OF RECORD WHEN REQUIRED.
     - a. CONCRETE MIX DESIGNS PER REQUIREMENTS OF ACI 318.26.4.4.
     - b. CONCRETE REINFORCEMENT AND ACCESSORIES.
     - c. CONCRETE MASONRY PRODUCT DATA, GROUT AND MORTAR MIXES, REINFORCEMENT AND ACCESSORIES
4. **DEFERRED SUBMITTALS:**
   - A. PORTIONS OF THE STRUCTURE HAVE ELEMENTS OF PROPRIETARY DESIGN AND FABRICATION, WHICH SHALL BE SUBMITTED BY THE SUPPLIER FOR APPROVAL AFTER AWARD OF CONTRACT.
   - B. THESE ITEMS SHALL CONFORM TO THE LOAD, CAPACITY, SIZE, GEOMETRY, CONNECTION, AND SUPPORT CRITERIA NOTED ON THE STRUCTURAL DRAWINGS.
   - C. DEFERRED SUBMITTALS ARE REQUIRED FOR THE FOLLOWING ITEMS. THE CONTRACTOR SHALL SUBMIT COPIES OF THESE ITEMS TO THE BUILDING DEPARTMENT AFTER REVIEW BY THE ARCHITECT AND/OR ENGINEER OF RECORD:
     - a. SUPPLIER ENGINEERED STAIRS, HAND RAILS, LADDERS, AND OTHER MISC. METALS
     - b. MICRO PILES
     - c. PERMANENT SHORING
   - D. SUBMITTALS WILL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD FOR COMPLIANCE WITH THE SPECIFIED DESIGN REQUIREMENTS, STAMPED AS "REVIEWED", AND FORWARDED TO THE LOCAL BUILDING AUTHORITY FOR REVIEW AS REQUIRED.
   - E. FINAL ISSUE OF THE BUILDING PERMIT MAY, AT THE APPROVAL AUTHORITY'S OPTION, BE CONTINGENT ON ITS APPROVAL OF THE DEFERRED SUBMITTAL DOCUMENTS.
   - F. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN CALCULATIONS AND DRAWINGS HAVE BEEN REVIEWED BY THE ARCHITECT, STRUCTURAL ENGINEER, AND/OR LOCAL BUILDING AUTHORITY AS REQUIRED.
5. **BUILDING CONSTRUCTION INFORMATION:**
   - A. FIRE RESISTIVE RATINGS:
     - a. ROOF CONSTRUCTION: **0 HOURS**
     - b. FLOOR CONSTRUCTION: **0 HOURS**
     - c. STRUCTURAL FRAME: **0 HOURS**
   - B. DESCRIPTION OF LATERAL LOAD-RESISTING SYSTEM:
     - a. THE LATERAL LOAD-RESISTING ELEMENTS THAT PROVIDE LATERAL STRENGTH AND STABILITY OF THE COMPLETED STRUCTURE ARE AS FOLLOWS:
       - **STEEL MOMENT FRAMES, STEEL BRACED FRAMES, REINFORCED CONCRETE MASONRY WALLS**
     - b. THE DIAPHRAGM ELEMENTS WITHIN THE LATERAL LOAD-RESISTING SYSTEM ARE AS FOLLOWS:
       - **STEEL ROOF DECK, INCLUDING THE CONNECTIONS OF THE STEEL DECK TO THE LATERAL LOAD-RESISTING ELEMENTS.**
     - c. SEE DETAILS FOR SPECIAL ERECTION CONSIDERATIONS AND LATERAL LOAD-RESISTING SYSTEM COMPONENTS NOT LISTED HERE.
     - d. TEMPORARY BRACING: DURING BUILDING ERECTION, THE STEEL ERECTOR SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS AND BRACING NECESSARY FOR LATERAL STABILITY OF THE SUPERSTRUCTURE UNTIL THE LATERAL LOAD-RESISTING ELEMENTS AND DIAPHRAGMS ARE IN PLACE AND ALL CONNECTIONS ARE COMPLETE.
6. **DESIGN LOAD CRITERIA**
   - A. DEAD LOADS . . . . . ACTUAL
   - B. ROOF LIVE LOADS . . . . . SEE SNOW AND WIND LOADS BELOW (20 PSF MIN)
   - C. RISK CATEGORY (IBC 1604.5) . . . . . **II - STANDARD OCCUPANCY**
   - D. SNOW LOADS
     - a. GROUND SNOW LOAD, P_g . . . . . **30 PSF**
     - b. FLAT ROOF SNOW LOAD, P_f . . . . . **30 PSF**
     - c. SNOW EXPOSURE FACTOR, C_e **1.0**
     - d. SNOW LOAD IMPORTANCE FACTOR, I_S **1.0**
     - e. THERMAL FACTOR, C_t **1.0**
     - f. DRIFT SURCHARGE LOAD, P_d . . . . . N/A
     - g. WIDTH OF SHOW DRIFTS, w . . . . . N/A
   - E. SEISMIC LOADS:
     - a. SEISMIC IMPORTANCE FACTOR, I_E **1.0**
     - b. S_{DS} **0.22**
     - c. S_1 . . . . . **0.048**
     - d. SITE CLASS . . . . . **D**
     - e. S_{DS} **0.180**
     - f. S_{D1} **0.073**
     - g. SEISMIC DESIGN CATEGORY . . . . . **B**
     - h. DESIGN SEISMIC FORCE RESISTING SYSTEM(S):
       - **ORDINARY REINFORCED MASONRY SHEAR WALLS (R=3.0)**
       - **STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE (R=3.0)**
     - i. DESIGN BASE SHEAR . . . . . **100 KIPS**
     - j. SEISMIC RESPONSE COEFFICIENT, C_S **0.60**
     - k. RESPONSE MODIFICATION FACTOR, R **3.0**
     - l. OVERSTRENGTH MODIFICATION FACTOR, Ω_0 . . . . . **2.5**
     - m. DEFLECTION AMPLIFICATION FACTOR, C_d **3.0**
     - n. SYSTEM OVERSTRENGTH FACTOR, Ω 3.0
     - o. ANALYSIS PROCEDURE USED . . . . . EQUIVALENT LATERAL FORCE ANALYSIS (ASCE-7 12.8)
   - F. RAIN LOADS:
     - a. RETURN PERIOD . . . . . **100 YEAR**
     - b. ONE-HOUR RAINFALL INTENSITY, I_{60} . . . . . **1.32 IN/HR**
     - c. 15-MINUTE RAINFALL INTENSITY, I_{15} . . . . . **3.55 IN/HR**
     - d. TOTAL RAIN LOAD, R . . . . . **N/A**
   - G. WIND LOADS:
     - a. BASIC ULTIMATE WIND SPEED (3-SECOND GUST), V_{ULT} . . . . . **104.0 MPH**
     - b. BASIC NOMINAL WIND SPEED (3-SECOND GUST), V_{ASD} . . . . . **80.6 MPH**
     - c. WIND EXPOSURE CATEGORY . . . . . **C**
     - d. INTERNAL PRESSURE COEFFICIENT . . . . . **± 0.55 (PARTIALLY ENCLOSED)**
     - e. TOPOGRAPHIC FACTOR, K_{ZT} 1.0
     - f. ALTITUDE ADJUSTMENT FACTOR 0.85
   - H. DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING AND ELEMENTS DESIGN BY THE CONTRACTOR:
     - a. VALUES LISTED BELOW ARE ULTIMATE
     - b. FINAL CALCULATIONS TO BE COMPLETED BY CONTRACTOR
     - c. WALLS, ROOFS, AND OVERHANGS:

LOCATION	ROOF ZONES									WALL ZONES	
ZONE	1	1'	2	2e	2n	2r	3	3e	3r	4	5
WIND PRESSURE	**50.4 PSF**	**32.5 PSF**	**63.9 PSF**	N/A	N/A	N/A	**84.0 PSF**	N/A	N/A	**34.5 PSF**	**40.5 PSF**
WIND SUCTION	**19.0 PSF**	**19.0 PSF**	**19.0 PSF**	N/A	N/A	N/A	**19.0 PSF**	N/A	N/A	**32.5 PSF**	**32.5 PSF**
OVERHANG PRESSURE	**37.5 PSF**	**37.5 PSF**	**50.7 PSF**	N/A	N/A	N/A	**70.6 PSF**	N/A	N/A	N/A	N/A

NOTES:
1. PRESSURES LISTED ABOVE ARE ULTIMATE IN ACCORDANCE WITH ASCE 7.
2. VALUES ARE CALCULATED IN ACCORDANCE WITH "PART 1" IN CHAPTER 30.2 OF ASCE 7: "LOW-RISE BUILDINGS WITH H<60FT. FOR ENCLOSED OR PARTIALLY ENCLOSED BUILDINGS".
3. REFER TO ASCE 7, FIGURES 30.3-1 THROUGH 30.3-8 FOR DEFINITION OF ZONES.
4. VALUES ARE FOR EFFECTIVE WIND AREAS OF 10 SQUARE FEET OR LESS. VALUES MAY BE REDUCED FOR AREAS GREATER THAN 10 SQUARE FEET IN ACCORDANCE WITH PROCEDURES GIVEN IN ASCE 7.
5. VALUES WERE DETERMINED AT A MEAN ROOF HEIGHT OF **24.0 FT**. WIND PRESSURE VALUES MAY BE REDUCED FOR COMPONENTS AT LOWER ELEVATIONS IN ACCORDANCE WITH PROCEDURES GIVEN IN ASCE 7.
6. DESIGNED FOR BASE PRESSURE, q_h = **± 25.9 PSF**, 'a' = **9.6 FT**.
7. PRESSURE INDICATES LOAD ACTING TOWARDS SURFACES. SUCTION INDICATES LOAD ACTING AWAY FROM SURFACES.
8. COMPONENTS AND CLADDING SHALL BE DESIGNED FOR MAXIMUM PRESSURE AND SUCTION ACTING INDEPENDENTLY.

   - J. SPECIAL LOAD REQUIREMENTS ARE DESCRIBED IN PLAN NOTES OR SPECIFIC LOCATIONS ON THE CONTRACT DRAWINGS.

02-FOUNDATION CONSTRUCTION

1. **FOUNDATION DESIGN CRITERIA:**
   - A. GEOTECHNICAL REPORT: FOUNDATION DESIGN CRITERIA WAS TAKEN FROM RECOMMENDATIONS SET FORTH IN GEOTECHNICAL REPORT NO. 751.01 BY ROCKSOL, DATED DECEMBER 11, 2025.
   - B. LRFD RESISTANCE VALUES FOR MICROPILES:

BEARING STRATUM	ULTIMATE (NOMINAL) RESISTANCE, q_n		SERVICE RESISTANCE (NOTE 1)	
	TIP (KSF)	SIDE (KSF)	BEARING (KSF)	SIDE (KSF)
MANCOS SHALE (BEDROCK)	20 (NOTE 2)	10.8	10.0	5.4

NOTE 1: SERVICE RESISTANCE VALUES ARE BASED ON AN ESTIMATED TOTAL SETTLEMENT OF LESS THAN 1/2 INCH.
NOTE 2: TIP RESISTANCE MAY ONLY BE CONSIDERED WHEN THE GROUTED MICROPILE IS EMBEDDED AT LEAST 5 FEET INTO BEDROCK.

   - C. STRENGTH LEVEL RESISTANCE FACTORS FOR MICROPILES:
     - a. TIP 0.50
     - b. SIDE 0.55
   - D. LATERAL EARTH PRESSURE PARAMETERS
     - a. CDOT CLASS 1 BACKFILL
       - SOIL UNIT WEIGHT . . . . . 130 PCF
       - EFFECTIVE FRICTION ANGLE . . . . . 34 DEG
       - AT-REST EARTH PRESSURE COEFFICIENT 0.44
       - ACTIVE EARTH PRESSURE COEFFICIENT 0.28
       - PASSIVE EARTH PRESSURE COEFFICIENT 3.54
     - b. ON-SITE MATERIAL (NOT INCLUDING HYDROSTATIC OR SURCHARGE LOADS):
       - SOIL UNIT WEIGHT . . . . . 125 PCF
       - EFFECTIVE FRICTION ANGLE . . . . . 32 DEG
       - AT-REST EARTH PRESSURE COEFFICIENT 0.47
       - ACTIVE EARTH PRESSURE COEFFICIENT 0.31
       - PASSIVE EARTH PRESSURE COEFFICIENT 3.26
   - E. MINIMUM FROST DEPTH . . . . . 24 IN
   - F. SHALLOW FOOTING DESIGN PARAMETERS:
     - a. MODULUS OF SUBGRADE REACTION . . . . . 300 PCI
     - b. ALLOWABLE BEARING PRESSURE (ON EXISTING INTERIOR SLAB) . . . 4,500 PSF
     - c. ALLOWABLE BEARING PRESSURE (<2' BELOW EXISTING SLAB) . . . . 3,500 PSF
     - d. ALLOWABLE BEARING PRESSURE (PIT SLAB) . . . . . 1,000 PSF
2. **FOOTINGS:**
   - A. SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED STRUCTURAL FILL GOOD FOR A SAFE BEARING PRESSURE EQUAL TO OR GREATER THAN THE ALLOWABLE SOIL BEARING PRESSURE.
   - B. **OVER-EXCAVATE BELOW THE FOOTING BEARING ELEVATION AS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER**.
   - C. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF FROST DEPTH BELOW GRADE.
   - D. AREAS OF LOOSE OR SOFT SOIL MATERIAL ENCOUNTERED AT THE BOTTOM OF FOOTING EXCAVATION SHALL BE REMOVED AND THE FOOTING EXTENDED TO MATERIAL WITH ADEQUATE BEARING CAPACITY, OR, THE REMOVED MATERIAL SHALL BE REPLACED WITH NON-EXPANSIVE STRUCTURAL FILL COMPACTED IN ACCORDANCE WITH PROJECT GEOTECHNICAL ENGINEER. REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR DESCRIPTION OF ACCEPTABLE STRUCTURAL FILL MATERIAL.
   - E. EARTH CUTS SHALL NOT BE USED AS FORMWORK FOR FOOTINGS.
3. **MICROPILES:**
   - A. MICROPILE DIAMETERS, LENGTH, AND REINFORCEMENT SHALL BE SUFFICIENT TO SATISFY AXIAL, BENDING, AND LATERAL LOAD RESISTANCE REQUIREMENTS. A MINIMUM BEDROCK EMBEDMENT OF 10 FEET IS RECOMMENDED TO RESIST UPLIFT FORCES. ADDITIONAL EMBEDMENT MAY BE NECESSARY TO SATISFY AXIAL BEARING REQUIREMENTS AND FOR LATERAL STABILITY REQUIREMENTS AS DETERMINED BY THE STRUCTURAL ENGINEER AND MICROPILE SPECIALTY CONTRACTOR. ADDITIONAL DESIGN AND CONSTRUCTION CONSIDERATIONS FOR MICROPILES ARE PRESENTED BELOW:
     - a. THE FINAL MICROPILE DESIGN SHOULD BE PERFORMED BY A SPECIALTY CONTRACTOR QUALIFIED TO PERFORM MICROPILE DESIGN AND CONSTRUCTION.
     - b. MICROPILE CAPACITY SHALL BE VERIFIED THROUGH THE PERFORMANCE OF MICROPILE LOAD TESTS AS DESCRIBED IN AASHTO LRFD ARTICLE 10.9.3.5.4.
     - c. MICROPILES SHOULD BE CONSTRUCTED WITH MINIMUM SPACING AT LEAST THREE SHAFT DIAMETERS, OR 30 INCHES, CENTER TO CENTER. FOR CLOSELY SPACED MICROPILES, THE AXIAL AND LATERAL CAPACITIES SHOULD BE APPROPRIATELY REDUCED. GROUP ACTION OF MICROPILES SHOULD BE ANALYZED ON AN INDIVIDUAL BASIS TO ASSESS THE APPROPRIATE REDUCTION.
     - d. GROUT MIX, STEEL REINFORCEMENT, AND CORROSION RESISTANCE METHODS APPROPRIATE FOR THE MICROPILES SHALL BE DETERMINED BY THE SPECIALTY CONTRACTOR.
   - B. MICROPILES SHALL BE CONSTRUCTED USING DRY EXCAVATION METHODS.
   - C. INSIDE DIAMETER OF BORE HOLE SHALL NOT BE LESS THAN THE SPECIFIED MICROPILE DIAMETER.
   - D. REINFORCE MICROPILES WITH GRADE 75 (MIN) EPOXY-COATED SOLID WILLIAMS ALL-THREAD BAR. IF REQUIRED, SPLICE MICROPILE USING WILLIAMS FASTENING COUPLER.
   - E. REFER TO MICROPLE SUPPLIER FOR GROUT MIXTURE REQUIREMENTS. GROUT TO HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. PER THE GEOTECHNICAL ENGINEER, GROUT SHALL BE MIXED WITH TYPE V CEMENT AND CLASS F FLYASH (20% BY WEIGHT).
   - F. A MINIMUM OF THREE (3) MICROPILES SHALL BE SELECTED FOR LOAD TESTING (ONE PER WALL ELEVATION). CONTRACTOR SHALL SUBMIT PLAN SHOWING LOCATIONS OF PILES TO BE LOAD TESTED PRIOR TO START OF CONSTRUCTION.
   - G. REFER TO FOUNDATION PLAN FOR MICROPILE LOCATIONS, ORIENTATION, AND CAPACITIES.
4. **SLAB-ON-GRADE AND FOUNDATION CONSTRUCTION REQUIREMENTS:**
   - A. PROVIDE A GRANULAR SUB-BASE MATERIAL BELOW SLABS-ON-GRADE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT **AND SPECIFICATIONS**. FINE GRADE TOP OF SUB-GRADE TO +0",-3/4" FROM SPECIFIED ELEVATION.
   - B. ISOLATION JOINTS: PROVIDE ***1/2 INCH*** WIDE ISOLATION JOINT AT THE EDGES OF ALL SLABS-ON-GRADE ABUTTING VERTICAL CONSTRUCTION (COLUMNS, WALLS, GRADE BEAMS, ETC.)
   - C. TIP FLOOR PILE AREA: REFER TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
5. **PERMANENT SHORING:**
   - A. CONTRACTOR TO DESIGN PERMANENT SHORING WHERE REQUIRED WHILE FOLLOWING THE REQUIREMENTS SET FORTH BY THE PROJECT GEOTECHNICAL ENGINEER.

03-CONCRETE

1. **CAST-IN-PLACE CONCRETE:**
   - A. ALL CONCRETE WORK INCLUDING FABRICATION AND PLACEMENT OF REINFORCING SHALL BE PERFORMED IN ACCORDANCE WITH REQUIREMENTS GIVEN IN ACI 318 AND ACI 301 (REFERENCED EDITIONS) EXCEPT AS MODIFIED BY THE PROJECT CONTRACT DOCUMENTS.
   - B. CONCRETE MIXES SHALL SATISFY THE REQUIREMENTS GIVEN IN THE PROJECT SPECIFICATIONS.
   - C. CONCRETE STRENGTH & DURABILITY REQUIREMENTS: CONCRETE MIXES USED ON THE PROJECT SHALL ATTAIN 28-DAY COMPRESSIVE STRENGTHS AND SHALL BE PROPORTIONED TO SATISFY THE FOLLOWING DURABILITY REQUIREMENTS AS FOLLOWS:

DESCRIPTION OF CONCRETE USE	CONCRETE MIX PROPERTIES[1, 2]: CONCRETE TYPE	28-DAY COMPRESSIVE STRENGTH, f'c (KSI)	MAX w/c RATIO	MAX AGGREGATE SIZE (INCHES)	SLUMP (INCHES) (+/- 1")	DURABILITY REQUIREMENTS[3, 4, 5]: ENTRAINED AIR (%) (+/- 1.5%)	CEMENT TYPE	FREEZE-THAW	PERMEABILITY	CHLORIDES	SULFATES	REFERENCE NOTE(S)
FOOTINGS	NW	4.5	0.50	¾	4	6	IL (MS)	F1	W0	C1	S1	#3, #6
FOUNDATIONS (WALLS AND PIER CAPS)	NW	4.5	0.45	¾	4	6	IL (MS)	F2	W0	C1	S1	#3, #6
INTERIOR SLABS-ON-GRADE	NW	4.0	0.50	¾	4	N/A	IL (MS)	F0	W0	C0	S1	#6
NORMAL WEIGHT TOPPING ON METAL DECK	NW	4.0	0.50	¾	4	N/A	IL (GU)	F0	W0	C0	S0	-

NOTES:
1. NORMAL WEIGHT CONCRETE (NW): 145 PCF, STONE AGGREGATE.
2. LIGHT-WEIGHT CONCRETE (LW): 115 PCF (DRY), LIGHT-WEIGHT COARSE AGGREGATE.
3. REFER TO ACI 318, CHAPTER 19 DEFINITION OF EXPOSURE CATEGORIES AND DURABILITY REQUIREMENTS.
4. CONCRETE USED IN NON-PRESTRESSED CONCRETE SHALL BE LIMITED TO A MAXIMUM CHLORIDE ION CONTENT OF 0.30% (EXPOSURE C1) OR 0.15% (EXPOSURE C2) (ACI 318, 19.3.2).
5. THE MAXIMUM PERCENTAGE OF POZZOLANS, INCLUDING FLY ASH AND SILICA FUME, AND SLAG CEMENT SHALL BE IN COMPLIANCE WITH ACI 318 SECTION ACI 26.4.2.2(b) FOR CONCRETE ASSIGNED EXPOSURE CLASS F3.
6. TYPE IL CEMENT SHALL BE LOCALLY SOURCED SULFATE RESISTANT.

   - D. GROUT USED BELOW COLUMN BASEPLATES SHALL BE NON-SHRINK, NON-METALLIC, CONFORMING TO ASTM C-1107 SPECIFICATIONS, AND HAVE TWICE THE COMPRESSIVE STRENGTH OF THE SUPPORTING CONCRETE DEFINED IN THE TABLE ABOVE. GROUT SHALL COMPLY WITH ASTM C-1107 AND CRD-621 WHEN TESTED AT A FLUID CONSISTENCY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
   - E. ALL REINFORCING STEEL IN CONCRETE SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI AND SHALL MEET THE REQUIREMENTS OF ASTM A615 OR ASTM A706. REINFORCING SHOWN AS GRADE 75 SHALL HAVE A MINIMUM YIELD STRENGTH OF 75,000 PSI AND MEET THE REQUIREMENT OF ASTM A615.
   - F. CONCRETE REINFORCING USED IN WELDED APPLICATIONS SHALL CONFORM TO ASTM A706 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.
   - G. MECHANICAL REINFORCING COUPLERS SHALL BE ZAP SCREWLOCK MANUFACTURED BY BARSPLICE PRODUCTS, INC. (ICC REPORT ESR-3517) OR APPROVED EQUIVALENT. COUPLERS SHALL BE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD STRENGTH OF THE REINFORCING.
   - H. STEEL PLATES EMBEDDED IN CONCRETE SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. HEADED ANCHOR STUDS SHALL CONFORM TO ASTM A108, 60,000 PSI MINIMUM TENSILE STRENGTH. REINFORCING BARS WELDED TO PLATES SHALL CONFORM TO ASTM A706, GRADE 60.
   - I. REINFORCING DETAILING:
     - a. ALL REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 318 AND ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
     - b. CONCRETE COVER: UNLESS OTHERWISE SHOWN ON PLANS OR IN DETAILS, PROVIDE THE FOLLOWING CONCRETE COVER TO REINFORCING:
       1. CONCRETE POURED AGAINST EARTH . . . . . 3"
       2. CONCRETE POURED IN FORMS AND EXPOSED TO WEATHER OR EARTH:
          - A. #5 BARS OR SMALLER . . . . . 1-1/2"
          - B. BARS LARGER THAN #5 BARS. . . . . 2"
       3. COLUMNS, GIRDERS AND BEAMS (PRINCIPAL REINFORCING, TIES AND STIRRUPS). . . . 1-1/2"
       4. SLABS AND WALLS (#11 BARS OR SMALLER) . . . . . 3/4"
     - c. SPLICES OF REINFORCING BARS ARE PERMITTED ONLY AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE 'LTS/LTS TOP' LAP SPLICES UNLESS NOTED OTHERWISE.
     - d. REINFORCING IN BEAMS, SLABS, JOISTS, WALLS AND GRADE BEAMS NOTED AS CONTINUOUS SHALL BE LAP SPLICED WITH 'LTS/LTS TOP' LAP SPLICES AS FOLLOWS:
       1. TOP REINFORCING BARS - AT MIDSPAN
       2. BOTTOM REINFORCING BARS - OVER SUPPORTS
     - e. SPLICE WIRE FABRIC REINFORCING BY LAP SPLICING ONE FULL MESH PLUS 2" AT SIDE AND END LAPS, BUT NOT LESS THAN 8". LAP SPLICES SHALL BE WIRE TIED.
     - f. MAKE ALL REINFORCING BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING. SEE DETAILS FOR REINFORCING AT WALL INTERSECTIONS AND CORNERS. SPLICE CORNER BARS WITH 'LTS/LTS TOP' LAP SPLICES UNLESS SHOWN OTHERWISE.
     - g. AT LOCATIONS WHERE ALL REINFORCING WITHIN A STRUCTURAL ELEMENT WILL BE SPLICED, THE SPLICES MUST BE STAGGERED UNLESS SHOWN OTHERWISE IN DETAILS OR SCHEDULES. OTHERWISE, STAGGER ADJACENT SPLICES WHERE POSSIBLE.
     - h. REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTHS: REFER TO DEVELOPMENT LENGTH AND LAP SPLICE SCHEDULE SHOWN BELOW FOR MINIMUM SPLICE AND DEVELOPMENT LENGTHS TO BE USED FOR DETAILING.
     - i. AT ENDS OF BEAMS, SLABS, JOINTS, WALLS AND GRADE BEAMS: TERMINATE TOP REINFORCING WITH STANDARD HOOKS UNLESS SHOWN OTHERWISE ON PLANS OR DETAILS.
     - j. REINFORCING AROUND OPENINGS IN WALLS AND FLOORS: UNLESS NOTED OTHERWISE ON PLAN OR IN DETAILS, PROVIDE 2-#5 BARS (ONE BAR EACH FACE) AT EACH SIDE OF OPENING (CIRCULAR OPENINGS SHALL BE CONSIDERED SQUARE WITH EQUIVALENT OPENING WIDTH EQUAL TO DIAMETER OF CIRCULAR OPENING). EXTEND #5 BARS PAST EDGES OF OPENING A DISTANCE OF 24". EXCEPTIONS:
       1. RECTANGULAR OPENINGS WITH THE LARGEST OPENING DIMENSION LESS THAN 8" AND CIRCULAR OPENINGS LESS THAN 8" IN DIAMETER DO NOT NEED ADDITIONAL REINFORCING AS DESCRIBED ABOVE. MULTIPLE OPENINGS SHALL BE SPACED A MINIMUM OF 32" (CLEAR) APART TO QUALIFY FOR THIS EXCEPTION.
     - k. WHERE UNIFORMLY SPACED WALL OR SLAB REINFORCING IS INTERRUPTED BY THE OPENING, PROVIDE ADDITIONAL REINFORCING AT EACH EDGE EQUAL TO HALF THE AREA OF INTERRUPTED REINFORCING. SIZE OF ADDITIONAL BARS AT EACH EDGE SHALL MATCH THE SIZE OF INTERRUPTED REINFORCING. SPACE THE ADDITIONAL BARS AT 3" ON CENTER STARTING 1" FROM THE SIDE OF THE OPENING AND EXTEND THE BARS PAST THE EDGES OF THE OPENING THE LENGTH OF A 'LTS/LTS TOP' SPLICE.

fc = 4,000 PSI

BAR SIZE	LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE (CLR CVR ≤ 1")							BAR SIZE	LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE (CLR CVR ≥ 1.5")						
	TENSION					COMP			TENSION					COMP	
	LDH	LTD	LTD TOP	LTS	LTS TOP	LCD	LCS		LDH	LTD	LTD TOP	LTS	LTS TOP	LCD	LCS
#3	6	12	14	16	19	8	12	#3	6	12	14	16	19	8	12
#4	9	15	19	20	25	10	15	#4	9	15	19	20	25	10	15
#5	12	18	24	24	32	12	19	#5	12	18	24	24	32	12	19
#6	16	24	31	32	41	15	23	#6	16	22	28	29	37	15	23
#7	20	38	50	50	65	17	27	#7	20	32	41	42	54	17	27
#8	24	48	62	63	81	19	30	#8	24	36	47	47	62	19	30
#9	29	58	76	76	99	22	34	#9	29	44	58	58	76	22	34
#10	35	71	92	93	120	25	39	#10	35	54	70	71	91	25	39
#11	41	83	108	108	141	27	43	#11	41	65	84	85	110	27	43

fc = 4,500 PSI

BAR SIZE	LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE (CLR CVR ≤ 1")							BAR SIZE	LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE (CLR CVR ≥ 1.5")						
	TENSION					COMP			TENSION					COMP	
	LDH	LTD	LTD TOP	LTS	LTS TOP	LCD	LCS		LDH	LTD	LTD TOP	LTS	LTS TOP	LCD	LCS
#3	6	12	14	16	19	8	12	#3	6	12	14	16	19	8	12
#4	9	14	18	19	24	9	15	#4	9	14	18	19	24	10	15
#5	12	17	22	23	29	12	19	#5	12	17	22	23	29	12	19
#6	16	22	29	29	38	14	23	#6	16	21	27	28	36	14	23
#7	20	30	39	39	51	16	27	#7	20	30	39	39	51	16	27
#8	24	34	44	45	58	18	30	#8	24	34	44	45	58	18	30
#9	29	42	54	55	71	21	34	#9	29	42	54	55	71	21	34
#10	34	51	66	67	86	23	39	#10	34	51	66	67	86	23	39
#11	40	61	79	80	103	26	43	#11	40	61	79	80	103	26	43

GENERAL NOTES:
1. TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE BAR.
2. ALL HOOK BARS SHALL EXTEND TO THE FAR FACE (LESS 2" COVER) UNO.

LAP SPLICE NOTES:
1. TOP AND BOTTOM BEAM SPLICES SHALL BE STACKED VERTICALLY.
2. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS.
   - A. COMPRESSION LAP LENGTH SHALL NOT BE LESS THAN 'LCD' OF THE LARGER BAR
   - B. TENSION LAP LENGTH SHALL NOT BE LESS THAN 'LTS' OF THE LARGER BAR
3. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN OVER LAP LENGTHS SCHEDULED
4. WHERE SPECIFIED EPOXY COATED REINFORCING, INCREASE SCHEDULED LENGTHS BY 50%
5. WHERE LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%
6. SCHEDULED LENGTHS ASSUME CLEAR SPACING BETWEEN BARS IS A MINIMUM OF 3 BAR DIAMETERS
7. SCHEDULED LENGTHS ARE BASED ON Fy = 60,000 PSI. FOR OTHER YIELD STRENGTHS, M

e. VERTICAL REINFORCING SHALL BE DOWELED INTO FOUNDATION OR SLAB SUPPORTING MASONRY. PROVIDE DOWELS OF ADEQUATE LENGTH FOR DEVELOPMENT LENGTH INTO FOUNDATION AND LAP SPLICE PROJECTION ABOVE. FOR MASONRY SUPPORTED ON SLABS, PROVIDE DOWELS EMBEDDED INTO SLAB WITH STANDARD HOOKS. DOWEL SIZE AND SPACING SHALL MATCH VERTICAL REINFORCING.

K. MINIMUM WALL REINFORCING:
a. REINFORCE MASONRY WALLS AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, REINFORCE WALLS (INCLUDING PARTITION WALLS) WITH #4 VERTICAL BARS AT 48" ON CENTER MAXIMUM SPACING.
b. PROVIDE 1-#4 BAR AT ALL CORNERS, ENDS OF WALLS, EACH SIDE OF OPENINGS AND EACH SIDE OF CONTROL JOINTS.
c. PROVIDE HORIZONTAL JOINT LADDER-TYPE REINFORCING AT 16" ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE PREFABRICATED JOINT REINFORCING ASSEMBLIES FOR CORNERS AND INTERSECTIONS. LAP SPLICE JOINT REINFORCING 8" KEEPING CELL OPENING CLEAR OF CROSS WIRES.
d. PROVIDE ADDITIONAL HORIZONTAL JOINT REINFORCING IN BED JOINT ONE MASONRY COURSE ABOVE OPENINGS. EXTEND JOINT REINFORCING A MINIMUM OF 2'-6" PAST EDGE OF OPENINGS.
e. PROVIDE BOND BEAMS IN MASONRY WALLS AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, PROVIDE BOND BEAMS WITH 2-#4 BARS AS FOLLOWS:
- AT TOP COURSE OF PARAPETS,
- IN ONE OF THE UPPER THREE COURSES OF ALL WALLS,
- UNLESS SHOWN OTHERWISE IN LINTEL SCHEDULE, OVER THE TOP OF ALL OPENINGS GREATER THAN 24" WIDE, EXTENDING 2'-6 PAST EDGE OF OPENING.

L. OPENINGS IN WALLS:
a. REFER TO ARCHITECTURAL, MECHANICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF OPENINGS THROUGH MASONRY WALLS. PROVIDE LOOSE LINTEL OR BOND BEAM OVER TOP OF OPENINGS GREATER THAN 24" WIDE.

M. REINFORCING PLACEMENT:
a. ALL REINFORCING SHALL HAVE A MINIMUM GROUT COVER OF ONE BAR DIAMETER..OVIDE CONTROL
b. BARS CENTERED IN CELLS SHALL BE HELD SECURELY IN PLACE. BARS NOTED AS "EACH FACE" SHALL BE SECURED IN PLACE AT 4'-0 ON CENTER (VERTICAL) USING PREFABRICATED REBAR POSITIONERS.

O. GROUTING:
a. FILL ALL BLOCK CELLS CONTAINING REINFORCING WITH GROUT.
b. FILL ALL VOIDS AND CELLS WITH GROUT FOR A DISTANCE OF 24" BELOW AND 16" EACH SIDE OF ALL BEAM AND LINTEL REACTIONS OR OTHER CONCENTRATED LOADS UNLESS SHOWN OTHERWISE.
c. FILL ALL VOIDS AND CELLS OF MASONRY BLOCK SUPPORTING SLABS OR STEEL DECK FOR A DISTANCE OF 8" BELOW BEARING ELEVATION.
d. UNLESS SHOWN OTHERWISE IN DETAILS, GROUT CELLS CONTAINING ANCHORS OR EMBEDMENTS PLUS ADJACENT CELLS BELOW, ABOVE AND EACH SIDE.
e. FILL ALL CELLS BELOW GRADE WITH GROUT.
f. FILL ALL CELLS ABOVE ROOF LEVEL WITH GROUT AT PARAPETS.
g. WHERE A CHANGE IN WALL THICKNESS OCCURS, GROUT THE TOP COURSE OF THE THICKER WALL.
h. GROUT BEAM AND JOIST POCKETS WHERE REQUIRED TO MAINTAIN FIRE RATING OF WALL.

P. BUILDING JOINTS: PROVIDE SLIP JOINTS AT THE TOP OF ALL NON-LOAD BEARING WALLS. UNLESS SHOWN OTHERWISE ON DRAWINGS, BRACE TOP OF WALLS TO STRUCTURE ABOVE USING L4x4x1/4" BY 12" LONG EACH SIDE OF WALL AT 8'-0 ON CENTER. ATTACH ANGLES DIRECTLY TO FRAMING ABOVE, OR USE L3x3x1/4" ANGLE FRAMING AS HANGERS AND KICKERS AS REQUIRED TO SUSPEND L4x4x1/4 FROM FRAMING ABOVE.

Q. MAINTAIN SUPPORT OF MASONRY LINTELS FOR A MINIMUM OF SEVEN DAYS OR UNTIL MASONRY HAS REACHED STRENGTH SUFFICIENT TO SAFELY SUPPORT IMPOSED LOADS.

R. MASONRY WALL CONSTRUCTION SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE ON THE DRAWINGS.

05-STEEL

1. STRUCTURAL STEEL:

A. REFERENCE STANDARDS: STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION AND THE AISC CODE OF STANDARD PRACTICE (REFERENCED EDITIONS).

B. OSHA REQUIREMENTS:
a. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL BOLTS, ANCHORS, STIFFENERS, STABILIZERS, BRIDGING, BRACING, OPENING CLOSURES, ETC. AS NECESSARY TO COMPLY WITH CURRENT OSHA REGULATIONS.
b. ALL RIGGING FOR SAFETY CABLES, LIFTING DEVICES, AND TEMPORARY BRACING SHALL BE CONNECTED TO ANGLES, PLATES OR OTHER MEMBERS DESIGNED AND DETAILED BY THE STEEL SUPPLIER AND SHALL BE SHOP WELDED TO STRUCTURAL MEMBERS. DO NOT PROVIDE HOLES IN STRUCTURAL MEMBERS FOR CONNECTION OF RIGGING CABLES, LIFTING DEVICES OR TEMPORARY BRACING UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL ADDED MEMBERS WHERE THEY INTERFERE WITH OTHER WORK OR ARE EXPOSED TO VIEW.

C. MATERIAL REQUIREMENTS: STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS:

a. WIDE FLANGE SHAPES:	ASTM 992, GRADE 50
b. ANGLES, CHANNELS AND PLATES:	ASTM A36 OR ASTM A572, GRADE 50
c. ROUND HSS SECTIONS:	ASTM A500, GRADE "C" (FY=46 KSI)
d. RECTANGULAR HSS SECTIONS:	ASTM A500, GRADE "C" (FY=50 KSI)
e. STRUCTURAL PIPES:	ASTM A53, GRADE "B" (FY=35 KSI)
f. HIGH-STRENGTH BOLTS (CONVENTIONAL):	ASTM F3125 GRADE A325 OR A490
g. HIGH-STRENGTH BOLTS (TWIST-OFF-TYPE TENSION-CONTROL):	ASTM F3125 GRADE F1852 OR F2280
h. THREADED RODS:	ASTM A36, GRADE 36
i. ANCHOR RODS:	ASTM F1554, GRADE 36 (WELDABLE)
j. ANCHOR RODS, HIGH-STRENGTH:	ASTM F1554, GRADE 55 OR 105
k. HEADED ANCHOR STUDS (HAS):	ASTM A108 AND AWS D1.1
l. DEFORMED BAR ANCHORS (DBA):	ASTM A496, GRADE 70 AND AWS D1.1
m. WELDING ELECTRODES:	AWS D1.1 E70 SERIES
n. GALVANIZED FINISH:	ASTM A123

D. SHOP PRIMING OF STEEL: STRUCTURAL STEEL SCHEDULED TO BE SPRAYED WITH FIRE RESISTIVE MATERIAL SHALL NOT BE SHOP PRIMED UNLESS NOTED OTHERWISE. ALL OTHER STEEL SHALL BE PAINTED WITH FABRICATOR'S STANDARD, RUST-INHIBITING PRIMER. OMIT PRIMER ON SURFACES ENCLOSED IN CONCRETE, SURFACES TO BE WELDED, CONTACT SURFACES IN SLIP CRITICAL CONNECTIONS AND TOPS OF BEAMS IN COMPOSITE CONSTRUCTION.

E. CONNECTIONS:
a. PROVIDE SIMPLE SHEAR BEAM CONNECTIONS AS SHOWN ON THE STEEL CONNECTION SHEET(S) ON THE DRAWINGS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. WHEN CONNECTIONS ARE NOT SHOWN, PROVIDE STANDARD SIMPLE SHEAR BEAM CONNECTIONS AS SHOWN IN THE AISC STEEL CONSTRUCTION MANUAL (REFERENCED EDITION), UNLESS NOTED OTHERWISE ON THE DRAWINGS.
b. SELECT CONNECTIONS TO SUPPORT THE REACTIONS SHOWN ON PLANS AND DETAILS. REACTIONS ARE GIVEN AS STRENGTH LOADS USING LRFD LOAD COMBINATIONS UNLESS NOTED OTHERWISE. WHERE REACTIONS ARE NOT SHOWN, PROVIDE CONNECTIONS TO SUPPORT A FACTORED LOAD OF 14.0 KIPS FOR LRFD DESIGN.
c. BOLTED CONNECTIONS:
1. REFER TO THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS (LATEST EDITION).
2. MINIMUM CONNECTION REQUIREMENT: USE 3/4" DIAMETER, ASTM A325 HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE ON DRAWINGS.
3. FOR ALL HIGH-STRENGTH BOLTED CONNECTIONS, APPROPRIATE NUTS AND HARDENED WASHERS SHALL BE PROVIDED PER THE AISC STEEL CONSTRUCTION MANUAL (REFERENCED EDITION).
4. ALL CONNECTIONS SHALL BE TYPE N (BEARING OR SNUG-TIGHTENED) CONNECTIONS UNLESS NOTED ON THE DRAWINGS AS TYPE SC (SLIP CRITICAL) OR TYPE PT (PRETENSIONED WITH TENSION CONTROL BOLTS).
5. PROVIDE A MINIMUM OF TWO BOLTS FOR ALL CONNECTIONS EXCEPT AS NOTED IN THE FOLLOWING TABLE:

MINIMUM NUMBER OF BOLTS PER CONNECTION

NUMBER OF BOLTS	FRAMING MEMBER SIZES
2	W8, W10, W12, S8, S10, S12, C8, C9, C10, C12, MC8, MC9, MC10, MC12, MC13
3	W14, W16, W18, S15, S18, C15, MC18
4	W21, W24, S20, S24
5	W27, W30
6	W33, W36
7	W40, W44

d. WELDED CONNECTIONS:
1. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD QUALIFICATION TESTS.
2. WELD SIZES AND LENGTHS ARE SHOWN ON THE DRAWINGS. WELD SIZES ARE THE NET EFFECTIVE SIZE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT FAYING SURFACE. MINIMUM FILLET WELD SIZE IS 3/16" UNLESS NOTED OTHERWISE.
3. WELDS SHALL BE CONTINUOUS UNLESS SHOWN OTHERWISE.
4. GROOVE WELDS SHALL BE FULL PENETRATION WELDS UNLESS NOTED OTHERWISE. BACKING BARS AND RUNOFF TABS SHALL BE REMOVED AFTER WELDING IS COMPLETE.
e. HEADED ANCHOR STUDS: WELD STUDS TO PLATES AND EMBEDDED ITEMS IN FABRICATOR'S SHOP WHERE POSSIBLE. FOR COMPOSITE CONSTRUCTION, FIELD WELD CONNECTORS THROUGH METAL DECK. PROVIDE WELDING WASHERS AT DECK GAGES LIGHTER THAN 22 GAGE. WELDS SHALL DEVELOP FULL STRENGTH OF CONNECTORS. WELDING FERRULES MUST BE REMOVED PRIOR TO INSPECTION AND PLACEMENT OF CONCRETE.
f. ANCHOR BOLTS: PROVIDE ANCHOR BOLTS WITH HEX NUT TACK WELDED TO EMBEDDED END OF BOLT.

F. GALVANIZING OF STEEL:
a. ALL STEEL PERMANENTLY EXPOSED TO WEATHER INCLUDING STRUCTURAL SHAPES, PLATES AND FASTENERS SHALL BE PROTECTED BY HOT-DIP GALVANIZING OR PAINTED WITH A HIGH PERFORMANCE PAINT SYSTEM.
b. GALVANIZING:
1. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 AND SHALL HAVE A MINIMUM COATING THICKNESS OF 3.9 MILS. FASTENERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 AND SHALL HAVE A MINIMUM COATING THICKNESS OF 1.7 MILS. FIELD WELDING AND OTHER DAMAGE TO GALVANIZING SHALL BE TOUCHED UP WITH ZINC RICH PAINT WITH A MINIMUM DRY FILM THICKNESS OF 4.0 MILS IN ACCORDANCE WITH ASTM A780. METAL DECK PERMANENTLY EXPOSED TO WEATHER SHALL BE PROTECTED BY A GALVANIZED FINISH (G90 THICKNESS, MINIMUM) IN ACCORDANCE WITH ASTM A653.
c. STEEL LINTELS SUPPORTING ANCHORED VENEER SHALL BE GALVANIZED UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS.

G. FIELD MODIFICATION OF STEEL: STRUCTURAL STEEL SHALL NOT BE CUT IN FIELD OR MODIFIED WITHOUT PRIOR APPROVAL OF THE ENGINEER. SPLICING STEEL MEMBERS IS NOT PERMITTED EXCEPT WHERE SHOWN ON THE DRAWINGS OR WHERE APPROVED BY THE ENGINEER. WHERE APPROVED, SPLICES SHALL NOT OCCUR AT LOCATIONS OF MAXIMUM STRESS AND SHALL DEVELOP THE FULL CAPACITY OF THE MEMBER. SPLICE DETAILS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING THE WORK.

2. COMPOSITE CONSTRUCTION:

A. COMPOSITE BEAMS ARE DESIGNED FOR UNSHORED CONSTRUCTION. BEAMS SHALL BE FABRICATED WITH THE CAMBER INDICATED ON THE STRUCTURAL DRAWINGS. BEAMS WITHOUT SPECIFIED CAMBER SHALL BE ERECTED WITH INCIDENTAL CAMBER ORIENTED UPWARDS.

B. COMPOSITE DECK LAYOUT SHALL BE CONTINUOUS OVER THREE OR MORE SUPPORTS. PROVIDE DECK SHORING FOR OTHER LAYOUTS AS REQUIRED BY THE DECK MANUFACTURER.

C. SET SCREEDS AND ADJUST AS NECESSARY TO ACHIEVE MINIMUM UNIFORM CONCRETE THICKNESS OVER BEAMS AND GIRDERS, ALLOWING FOR CAMBER AND DEFLECTION. INCREASED SLAB THICKNESS BETWEEN BEAMS DUE TO DECK DEFLECTION IS ACCEPTABLE. MINIMUM UNIFORM SLAB THICKNESS SHALL NOT BE LESS THAN VALUE SHOWN ON PLAN. RE: ARCHITECT FOR FIRE RATING REQUIREMENTS.

D. THE NUMBER OF SHEAR STUDS REQUIRED FOR EACH COMPOSITE BEAM IS SHOWN ON THE PLANS AND IS BASED, IN PART, ON THE DECK TYPE(S) SPECIFIED IN THE STEEL DECK SECTION IN THESE GENERAL NOTES. ADDITIONAL SHEAR STUDS MAY BE REQUIRED FOR ALTERNATE DECK TYPES.

3. MISCELLANEOUS STRUCTURAL STEEL

A. MISCELLANEOUS STRUCTURAL STEEL IS DEFINED FOR THE PURPOSE OF THIS SECTION AS STEEL ITEMS OTHER THAN THE MAIN SUPERSTRUCTURE FRAMING (COLUMNS, BEAMS, JOISTS, GIRDERS, TRUSSES AND LATERAL BRACING).

B. THE STEEL SUPPLIER SHALL PROVIDE ALL MISCELLANEOUS STRUCTURAL STEEL ITEMS NECESSARY TO FULFILL THE INTENT OF THE STRUCTURAL DRAWINGS WHETHER OR NOT THE ITEMS ARE SHOWN ON THE STRUCTURAL DRAWINGS. SUCH ITEMS MAY INCLUDE BUT ARE NOT LIMITED TO: EDGE ANGLES, CLOSURE PLATES AND DECK SUPPORT FRAMING.

C. DECK OPENINGS: FLOOR AND ROOF OPENINGS ARE SHOWN ON ARCHITECTURAL, STRUCTURAL, AND OTHER DISCIPLINE DRAWINGS. IF OPENINGS ARE NOT SHOWN, LOCATED OR DIMENSIONED ON STRUCTURAL DRAWINGS, REFER TO DRAWINGS LISTED ABOVE FOR REQUIRED INFORMATION. UNLESS OTHERWISE NOTED, ALL OPENINGS THROUGH FLOOR AND ROOF DECK SHALL BE FRAMED USING MISCELLANEOUS STRUCTURAL STEEL FRAMES OR REINFORCING AS FOLLOWS:
a. DECK SUPPORTING CONCRETE:
- FOR OPENINGS WITH THE LARGEST DIMENSION LESS THAN 24", PROVIDE 1-#5 BAR IN CONCRETE ABOVE DECK FLUTES ON EACH SIDE OF OPENING. EXTEND REINFORCING A MINIMUM OF 24" BEYOND EDGES OF OPENING OR PROVIDE A STANDARD HOOK. OPENINGS SHALL BE SPACED A MINIMUM OF 24" CLEAR. IF SPACING REQUIREMENT CANNOT BE MET, THE OPENINGS SHALL BE CONSIDERED AS ONE LARGE OPENING AND A STEEL FRAME AROUND OPENINGS SHALL BE PROVIDED AS DESCRIBED BELOW.
- FOR ALL OTHER OPENINGS, PROVIDE A STEEL FRAME AROUND OPENING PER TYPICAL OPENING FRAME DETAIL PROVIDED ON STRUCTURAL DRAWINGS.

b. ROOF DECK (NO CONCRETE TOPPING):
- NO ADDITIONAL DECK SUPPORT FRAMING IS REQUIRED FOR OPENINGS WITH THE LARGEST DIMENSION LESS THAN OR EQUAL TO 10". OPENINGS IN THIS CATEGORY MUST BE SPACED A MINIMUM OF 24" APART (CLEAR) WHEN OPENINGS ARE NOT ALIGNED PARALLEL TO DIRECTION OF FLUTES. IF SPACING REQUIREMENT CANNOT BE MET, THE OPENINGS SHALL BE CONSIDERED AS ONE LARGE OPENING AND A DECK SUPPORT FRAME SHALL BE PROVIDED AS DESCRIBED BELOW.
- FOR ALL OTHER OPENINGS, PROVIDE A STEEL FRAME AROUND OPENINGS PER TYPICAL OPENING FRAME DETAIL PROVIDED ON STRUCTURAL DRAWINGS.

4. STEEL DECK:

A. REFERENCE STANDARDS: STEEL DECK SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH STANDARDS OF THE STEEL DECK INSTITUTE (SDI).

B. ALL STEEL DECK AND DECK ACCESSORIES SHALL BE FABRICATED FROM SHEET STEEL CONFORMING TO ASTM A653 WITH G90 GALVANIZED FINISH. MINIMUM DECK YIELD STRESS SHALL CONFORM TO THE VALUES GIVEN IN THE TABLE OF MINIMUM DECK SECTION PROPERTIES.

C. SPECIFIED STEEL DECK SHALL EXHIBIT THE FOLLOWING MINIMUM SECTION PROPERTIES:

MINIMUM DECK SECTION PROPERTIES

USE	DECK TYPE	DECK GAGE (YIELD STRESS)	Ip (IN⁴ /FT)	In (IN⁴ /FT)	Sp (IN³ /FT)	Sn (IN³ /FT)
COMPOSITE DECK	2 VLI	20 (50)	0.409	0.407	0.326	0.337
	3 VLI	20 (50)	0.919	0.921	0.512	0.539

a. STEEL DECK PROPERTIES LISTED IN TABLE ABOVE CONFORM TO DECK PRODUCED BY VULCRAFT. STEEL DECK FROM OTHER SUPPLIERS MAY BE SUPPLIED PROVIDED SECTION PROPERTIES ARE SIMILAR, LOAD CAPACITY IS EQUIVALENT, CONSTRUCTION SPANS ARE EQUAL OR GREATER, AND SUBSTITUTION IS APPROVED BY THE STRUCTURAL ENGINEER.
b. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SHEAR STUDS IF ALTERNATE DECK TYPE REQUIRES MORE STUDS THAN SPECIFIED FOR COMPOSITE BEAMS TO MEET LEVEL OF COMPOSITE ACTION ACHIEVED USING ORIGINAL DECK TYPE.

D. INSTALLATION:
a. DECKING SHALL BE 3-SPAN CONTINUOUS (FOUR SUPPORTS) AS A MINIMUM UNLESS NOTED OTHERWISE.
b. DECK SHALL BEAR A MINIMUM OF 1-1/2" AT SUPPORTS.
c. ROOF DECK ENDLAPS SHALL BE A MINIMUM OF 2"
d. STEEL DECK SHALL BE FASTENED TO SUPPORTS PER INSTRUCTIONS ON THE PLANS OR SPECIFICATIONS BUT NOT LESS THAN REQUIRED BY SDI.
e. DECK SHALL NOT BE SHORED DURING PLACEMENT OF CONCRETE UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

E. OPENINGS THROUGH STEEL DECK: SEE REQUIREMENTS GIVEN IN THE MISCELLANEOUS STRUCTURAL STEEL SECTION IN THESE GENERAL NOTES.

F. HANGERS SUPPORTING DUCTWORK OR MECHANICAL EQUIPMENT SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK. ATTACH HANGERS DIRECTLY TO MAIN ROOF FRAMING OR PROVIDE ADDITIONAL MISCELLANEOUS STEEL FRAMING CONNECTED TO MAIN ROOF FRAMING.

5. STAIR DESIGN:

A. THE CONTRACTOR SHALL PROVIDE COMPLETE SIGNED AND SEALED DRAWINGS AND CALCULATIONS FOR ALL STAIR CONSTRUCTION NOT SHOWN ON THE STRUCTURAL DRAWINGS. STAIR AND LANDING FRAMING SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION.

B. DESIGN REQUIREMENTS:
a. STAIRWAY FRAMING, LANDINGS AND ALL SUPPORT FRAMING SHALL BE DESIGNED FOR DEAD LOADS, SEISMIC LOADS AND LIVE LOADS PER THE REQUIREMENTS OF THE REFERENCED BUILDING CODE.
b. REFER TO ARCHITECTURAL DRAWINGS FOR STAIRWAY WIDTHS AND CLEARANCES. MINIMUM HEADROOM CLEARANCES SHALL COMPLY WITH REQUIREMENTS OF THE REFERENCED BUILDING CODE.
c. ALL REQUIRED EMBEDDED PLATES AND ANGLES SHALL BE INCLUDED AS PART OF THE STAIR DESIGN.
d. THE STAIR MANUFACTURER SHALL PROVIDE ALL FRAMING, CONNECTIONS AND ACCESSORIES AS NECESSARY TO SUPPORT STAIRS FROM THE PRIMARY STRUCTURE. CONNECTIONS TO PRIMARY FRAMING SHALL BE LOCATED AND DETAILED TO PROPERLY TRANSFER FORCES TO THE PRIMARY FRAMING WITHOUT CAUSING OVERLOAD OR DISTORTION OF THE SUPPORTING ELEMENTS.

6. UNISTRUT METAL FRAMING:

A. ALTERNATIVE STRUT SYSTEMS MAY BE SUBSTITUTED UPON APPROVAL FROM ARCHITECT AND ENGINEER. PROPOSED STRUT SYSTEM SHALL BE EQUIVALENT IN ALL RESPECTS TO THE SPECIFIED STRUT SYSTEM. ALL REQUIREMENTS GIVEN IN THIS SECTION SHALL BE APPLICABLE TO THE ALTERNATE PROPOSED STRUT SYSTEM.

B. PROVIDE ALL UNISTRUT FRAMING MATERIAL, FITTINGS, AND RELATED ACCESSORIES AS SHOWN ON THE DRAWINGS.

C. WORK PERFORMED IN THIS SECTION SHALL INCLUDE ALL LABOR, ENGINEERING, SUPERVISION, AND FABRICATION REQUIRED FOR A COMPLETE INSTALLATION OF THE UNISTRUT SYSTEM AS SHOWN ON THE DRAWINGS.

D. SUBMIT THE MANUFACTURER'S DATA FOR ALL COMPONENTS OF THE UNISTRUT SYSTEMS TO BE INSTALLED FOR THE EOR'S REVIEW AND APPROVAL.

E. ALL UNISTRUT FITTINGS SHALL BE FABRICATED FROM STEEL CONFORMING TO EITHER ASTM A575, ASTM A576, ASTM A36, OR ASTM A653.

F. FOR INTERIOR APPLICATIONS, PROVIDE UNISTRUT FRAMING COMPONENTS FINISHED WITH RUST INHIBITING EPOXY ENAMEL PAINT, ELECTRO-GALVANIZED, OR PRE-GALVANIZED FINISH PER THE ARCHITECT'S DISCRETION.

G. FOR EXTERIOR APPLICATIONS PERMANENTLY EXPOSED TO WEATHER, PROVIDE UNISTRUT FRAMING COMPONENTS FINISHED WITH A HOT-DIPPED GALVANIZED FINISH.

H. PRIOR TO INSTALLATION, THE UNISTRUT INSTALLER SHALL INSPECT THE WORK AREA AND REPORT TO THE GENERAL CONTRACTOR ANY CONDITIONS DIFFERRENT FROM THOSE SHOWN ON THE DRAWINGS.

07-THERMAL AND MOISTURE PROTECTION

1. WATERPROOFING AND WATERSTOPS:

A. FOR CONCRETE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS TO BE WATERPROOF, ADD CRYSTALLINE WATERPROOFING ADMIXTURE TO THE CONCRETE MIX AT TIME OF BATCHING. UNLESS OTHERWISE SPECIFIED, PROVIDE XYPEX ADMIX C-500 OR C-1000 AS APPLICABLE MANUFACTURED BY XYPEX CHEMICAL CORPORATION.

B. PROVIDE THE SPECIFIED WATERSTOP AT CONSTRUCTION JOINTS IN ALL CONCRETE INDICATED TO BE WATERPROOF ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS AND ELSEWHERE AS SHOWN ON THE DRAWINGS. IF NOT OTHERWISE SPECIFIED, PROVIDE RX-100 WATERSTOP AS MANUFACTURED BY CETCO BUILDING MATERIALS GROUP.

14-CONVEYING EQUIPMENT

1. ELEVATORS (PHASE 2 SCOPE):

A. THE ELEVATOR, ELEVATOR HOISTWAYS, ELEVATOR PITS, FLOOR AND WALL BLOCKOUTS WERE DESIGNED USING INFORMATION OBTAINED FROM DRAWINGS, SKETCHES AND DESIGN DATA SUPPLIED BY ***THE ELEVATOR VENDOR (TBD)*** DATED ***(TBD)*** THE ACCURACY AND COMPLETENESS OF THE INFORMATION RECEIVED IS THE RESPONSIBILITY OF THE ELEVATOR CONSULTANT AND MANUFACTURER.

B. DOCUMENTATION: REACTIONS FROM ELEVATOR EQUIPMENT ON MACHINE ROOM FLOOR, ELEVATOR PITS AND SUPPORT BEAMS WERE PROVIDED BY OTHERS AND ARE SHOWN ON THE DRAWINGS FOR INFORMATION ONLY.

C. HOIST BEAMS: IF HOIST BEAMS ARE REQUIRED BY THE ELEVATOR MANUFACTURER AND ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS, PROVIDE HOIST BEAMS AT TOP OF ELEVATOR SHAFTS AND CONNECT TO ADJACENT STRUCTURAL FRAMING. SUBMIT SHOP DRAWINGS OF HOIST BEAM FRAMING FOR REVIEW AND APPROVAL PRIOR TO BEAM INSTALLATION.

D. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PURCHASED ELEVATOR EQUIPMENT AGAINST THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT LOCATION, SIZE, LOADS, OPENINGS, HOISTWAY AND PIT REQUIREMENTS AND SUPPORT REQUIREMENTS. REPORT DIFFERENCES TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.

E. REDESIGN: IF A REVIEW OF THE ELEVATOR SUBMITTAL REVEALS REDESIGN OF THE MACHINE ROOM FLOOR, HOISTWAY, PIT OR SUPPORT BEAMS IS REQUIRED, THE CONTRACTOR SHALL PROVIDE COMPENSATION TO THE STRUCTURAL ENGINEER FOR THE REDESIGN EFFORT.

F. MODIFICATIONS: NO MODIFICATIONS TO THE ELEVATOR, HOISTWAY, PIT OR SUPPORT BEAMS TO ACCOMMODATE PURCHASED EQUIPMENT WILL BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT AND ENGINEER.

G. LIMITATIONS: ELEVATOR CONSTRUCTION INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS LIMITED TO THE FOLLOWING ITEMS:
a. ELEVATOR PITS INCLUDING SUMP PIT AND ELEVATOR DIVIDER BEAMS
b. ELEVATOR SHAFT CONSTRUCTION: SHAFT OPENINGS IN FLOOR AND ROOF LEVELS INCLUDING EDGE FRAMING, GUIDE RAIL SUPPORT FRAMING AT FLOORS AND BETWEEN FLOORS WHERE FLOOR TO FLOOR DISTANCES EXCEED 14'-0" AND SUPPORT OF ELEVATOR HOIST MACHINERY LOCATED IN SHAFTS.
c. ALL OTHER EQUIPMENT AND ACCESSORIES REQUIRED FOR ELEVATOR CONSTRUCTION SHALL BE PROVIDED BY THE ELEVATOR MANUFACTURER.

22, 23, 26-MECHANICAL AND ELECTRICAL TRADES

1. PRECEDENCE:

A. STRUCTURAL FRAMING COMPONENTS, INCLUDING BUT NOT LIMITED TO STEEL FRAMING, CONCRETE FRAMING, REINFORCING, AND EMBEDMENTS SHALL TAKE PRECEDENCE OVER MECHANICAL, PLUMBING AND ELECTRICAL (MEP) ITEMS.

B. STRUCTURAL FRAMING COMPONENTS SHALL NOT BE MOVED, ADJUSTED OR OTHERWISE MODIFIED FROM THE STRUCTURAL DRAWINGS TO ACCOMMODATE OTHER DISCIPLINES WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER.

2. COORDINATION:

A. THE GENERAL CONTRACTOR AND MECHANICAL AND ELECTRICAL SUBCONTRACTORS SHALL VERIFY PURCHASED EQUIPMENT AND REQUIRED OPENINGS THROUGH FLOORS, ROOF AND WALLS ARE IN AGREEMENT WITH THE DESIGN INFORMATION SHOWN ON THE DRAWINGS.

B. DIFFERENCES OR CONFLICTS BETWEEN THE DRAWINGS AND MECHANICAL AND ELECTRICAL REQUIREMENTS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

C. PENETRATIONS: THE GENERAL CONTRACTOR SHALL SUBMIT COORDINATED AND DIMENSIONED DRAWINGS SHOWING ALL MECHANICAL, PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE FLOOR AND ROOF SLABS FOR REVIEW AND APPROVAL AT LEAST THREE WEEKS PRIOR TO STARTING THE WORK.

3. EQUIPMENT:

A. THE FLOOR AND ROOF FRAMING IS DESIGNED TO SUPPORT THE MECHANICAL AND ELECTRICAL EQUIPMENT SHOWN ON PLANS. DIFFERENCES IN ACTUAL EQUIPMENT LOCATION, SIZE OR WEIGHT MAY REQUIRE REDESIGN OF THE FRAMING AT THE EXPENSE OF THE CONTRACTOR.

B. PROVIDE 4" HIGH CONCRETE PADS UNDER FLOOR MOUNTED MEP EQUIPMENT. REINFORCE PADS WITH # 4 BARS AT 12" O.C. UNLESS NOTED OTHERWISE.

4. SLEEVES AND CORE DRILLING:

A. CONCRETE ON METAL DECK:
SLEEVES AND CORE DRILLING THROUGH CONCRETE SLABS ON METAL DECK ARE PERMITTED SUBJECT TO THE FOLLOWING RESTRICTIONS:
a. PENETRATIONS SHALL NOT EXCEED 6" IN DIAMETER
b. EDGE OF PENETRATION SHALL BE A MINIMUM OF 2" CLEAR FROM EDGE OF BEAM FLANGE.
c. MULTIPLE PENETRATIONS SHALL BE SPACED A MINIMUM OF 1 CORE DIAMETER APART USING THE LARGER PENETRATION DIAMETER.
d. LOCATE SLAB REINFORCING PRIOR TO MAKING PENETRATION AND ADJUST PENETRATION LOCATION TO AVOID REINFORCING. IF PENETRATION LOCATION CANNOT BE ADJUSTED, OBTAIN ENGINEER'S APPROVAL PRIOR TO MAKING PENETRATION.
e. A MAXIMUM OF THREE PENETRATIONS WITH MINIMUM SPACING MAY BE GROUPED WITHOUT ENGINEER'S APPROVAL. NO MORE THAN FOUR PENETRATIONS ARE ALLOWED BETWEEN ADJACENT FLOOR BEAMS UNLESS APPROVED BY ENGINEER.

5. ELECTRICAL CONDUIT IN SLABS:

A. CONCRETE SLAB ON DECK:
ELECTRICAL CONDUIT IS ALLOWED IN CONCRETE SLABS ON METAL DECK SUBJECT TO THE FOLLOWING RESTRICTIONS:
a. CONDUIT OD SHALL NOT EXCEED 1". MINIMUM CLEAR DISTANCE BETWEEN CONDUITS IS 2".
b. NO MORE THAN THREE CONDUITS MAY BE BUNDLED IN ONE GROUP. BUNDLED CONDUITS SHALL HAVE AT LEAST 12" CLEAR BETWEEN GROUPS.
c. CONDUIT MAY NOT CROSS WITHIN FLOOR SLAB THICKNESS.
d. CONDUIT SHALL REST DIRECTLY ON METAL DECK AND WILL BE SECURELY FASTENED DOWN.

6. SUPPORT OF EQUIPMENT:

A. SUPPORT OF MECHANICAL, PLUMBING AND ELECTRICAL ITEMS SUSPENDED FROM CONCRETE FLOOR AND ROOF SLABS IS THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING DETERMINING THE NUMBER AND POSITION OF FASTENERS. THE FOLLOWING FASTENERS ARE APPROVED FOR USE IN CONCRETE:
a. POWDER ACTUATED FASTENERS: HILTI UNIVERSAL KNURLED SHANK FASTENER (X-U) OR DEWALT CSI SPIRAL DRIVE PINS WITH 1-1/4" EMBEDMENT.
b. DRILLED ANCHORS: HILTI DROP-IN CONCRETE EXPANSION ANCHOR (X-GN) WITH 1-1/2" EMBEDMENT

STATEMENT OF SPECIAL INSPECTIONS - 2024 IBC

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED IN FULFILLMENT OF THE REQUIREMENTS OF THE 2024 INTERNATIONAL BUILDING CODE (IBC SECTION 1704 AND 1705).

SPECIAL INSPECTIONS AND TESTS APPLICABLE TO THIS PROJECT:

SPECIAL INSPECTION	***CODE REFERENCE***	***REQUIREMENT***	***FREQUENCY & NOTES***
STRUCTURAL OBSERVATIONS FOR STRUCTURES	(IBC 1704.6.1)	REQUIRED	PER SEOR
STRUCTURAL STEEL CONSTRUCTION	(IBC 1705.2.1)	REQUIRED	REF: TABLES ON THIS SHEET
STAINLESS STEEL	(IBC 1705.2.2)	-	-
COLD-FORMED STEEL DECKS	(IBC 1705.2.3)	REQUIRED	REF: TABLES ON THIS SHEET
OPEN-WEB JOISTS	(IBC 1705.2.4)	-	-
COLD-FORMED STEEL TRUSSES, SPAN >60 FT	(IBC 1705.2.5)	-	-
METAL BUILDING SYSTEMS	(IBC 1705.2.6)	-	-
CONCRETE CONSTRUCTION	(IBC 1705.3)	REQUIRED	REF: TABLE ON THIS SHEET
WELDING OF REINFORCING BARS	(IBC 1705.3.1)	REQUIRED	REF: TABLE ON THIS SHEET
MATERIAL TESTS	(IBC 1705.3.2)	REQUIRED	REF: TABLE ON THIS SHEET
MASONRY CONSTRUCTION	(IBC 1705.4)	REQUIRED	REF: TABLE ON THIS SHEET
EMPIRICAL, GLASS UNIT, VENEER (RISK CAT. IV)	(IBC 1705.4.1)	-	-
VERTICAL MASONRY FOUNDATION ELEMENTS	(IBC 1705.4.2)	-	-
WOOD CONSTRUCTION	(IBC 1705.5)	-	-
HIGH-LOAD DIAPHRAGMS	(IBC 1705.5.1)	-	-
METAL-PLATE-CONNECTED TRUSSES, SPAN>60FT	(IBC 1705.5.2)	-	-
MASS TIMBER CONSTRUCTION	(IBC 1705.5.3)	-	-
SOILS	(IBC 1705.6)	REQUIRED	REF: TABLE ON THIS SHEET
DRIVEN DEEP FOUNDATIONS	(IBC 1705.7)	-	-
CAST IN PLACE DEEP FOUNDATIONS	(IBC 1705.8)	REQUIRED	REF: TABLE ON THIS SHEET
HELICAL PILE FOUNDATIONS	(IBC 1705.9)	-	-
STRUCTURAL INTEGRITY OF DEEP FOUNDATION ELEMENTS	(IBC 1705.10)	REQUIRED	PER SEOR
FABRICATED ITEMS	(IBC 1705.11)	-	-
WIND RESISTANCE	(IBC 1705.12)	-	-
STRUCTURAL WOOD	(IBC 1705.12.1)	-	-
COLD-FORMED STEEL LIGHT-FRAME CONST	(IBC 1705.12.2)	-	-
WIND-RESISTING COMPONENTS	(IBC 1705.12.3)	-	-
SEISMIC RESISTANCE	(IBC 1705.13)	-	-
TESTING FOR SEISMIC RESISTANCE	(IBC 1705.14)	-	-
SEALING OF MASS TIMBER	(IBC 1705.20)	-	-

SPECIAL INSPECTORS SHALL REFER TO THE APPROVED PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ANY ADDITIONAL TESTS AND INSPECTIONS REQUIRED BY THE APPROVED PLANS AND SPECIFICATIONS WILL ALSO BE PERFORMED.

SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THIS STATEMENT AND IBC CHAPTER 17.

OWNER SHALL EMPLOY ONE OF MORE APPROVED AGENCIES TO PERFORM SPECIAL INSPECTIONS AND TEST AS REQUIRED IN IBC SECTION 1704.2 AND WITH THE JURISDICTION HAVING AUTHORITY.

A FINAL SPECIAL INSPECTION REPORT SHALL BE SUBMITTED TO OWNER, THE AUTHORITY HAVING JURISDICTION, AND THE STRUCTURAL ENGINEER IN RESPONSIBLE CHARGE IN ACCORDANCE WITH IBC SECTION 1704.2.4. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER, THE AUTHORITY HAVING JURISDICTION AND THE STRUCTURAL ENGINEER ONCE DISCOVERED.

THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN DEVELOPED WITH THE UNDERSTANDING THAT THE OWNER WILL:

- REVIEW AND APPROVE THE QUALIFICATIONS OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE INSPECTIONS
- MONITOR SPECIAL INSPECTION ACTIVITIES TO ASSURE THAT THE SPECIAL INSPECTORS ARE QUALIFIED AND ARE PERFORMING THEIR DUTIES AS CALLED FOR IN THIS STATEMENT OF SPECIAL INSPECTION
- REVIEW SUBMITTED INSPECTION REPORTS
- PERFORM INSPECTION AS REQUIRED BY IBC CHAPTER 17 AND ANY CITY/COUNTY/STATE STATUTE

IBC 2024 - TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (ACI 318-19)

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS, AND VERIFY PLACEMENT.	—	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	—
2. REINFORCING BAR WELDING:				
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	—	X	AWS D1.4 ACI 318: 26.13.1.4	—
B. INSPECT WELDING OF REINFORCEMENT FOR SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS, AND COUPLING BEAMS	X	—	AWS D1.4 ACI 318: 26.13.3	
C. INSPECT WLEDED REINFORCEMENT SPLICES	X	—	—	
D. INSPECT WELDING OF PRIMARY TENSION REINFORCEMENT IN CORBELS	X	—	—	
E. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	—	X	—	
F. INSPECT ALL OTHER WELDS	—	X	AWS D1.4 ACI 318: 26.13.3	
3. INSPECT ANCHORS CAST IN CONCRETE.	—	X	ACI 318: 13.3.3	—
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.[b]				
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	—	ACI 318: 26.13.3.2	—
B. MECHANICAL ANCHORS OR ADHESIVE ANCHORS NOT DEFINED IN 4.A.	—	X	ACI 318: 26.13.3	
5. VERIFY USE OF REQUIRED DESIGN MIX.	—	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	—	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12	—
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	—	ACI 318: 26.5	—
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 26.5.3-26.5.5	—
9. INSPECT PRESTRESSED CONCRETE FOR:				
A. APPLICATION OF PRE-STRESSING FORCES, AND	X	—	ACI 318: 26.10	—
B. GROUTING OF BONDED PRE-STRESSING TENDONS.	X	—		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318, Ch. 26.9	—
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTION OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTIONS AND REINFORCEMENT IN THE FIELD FOR:			ACI 318: 26.13.1.3	—
A. INSTALLATION OF THE EMBEDDED PARTS	X	—		
B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS.	X	—	ACI 550.5	
C. COMPLETION OF CONNECTIONS IN THE FIELD	X	—		
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTIONS FOR COMPLIANCE WITH ACI 550.5	—	X	ACI 318: 26.13.1.3	—
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSION CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 26.11.2	—
14. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	—	X	ACI 318: 26.11.1.2(B)	—

a. WHERE APPLICABLE, SEE ALSO SECTION 1705.13, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

INDICATES NON-APPLICABLE AREA

TABLE N5.4-1 INSPECTION TASKS PRIOR TO WELDING (AISC 360-22)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL (REF: IBC 1705.2)

INSPECTION TASKS PRIOR TO WELDING	QC	QA
1. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O
2. WPS AVAILABLE	P	P
3. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	P	P
4. MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O
5. WELDER IDENTIFICATION SYSTEM[a]	O	O
6. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	O	O
7. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATION • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	P	O
8. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O
9. FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	O	O
10. CHECK WELDING EQUIPMENT	O	—

NOTE:
a. THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE. DIE STAMPING OF MEMBERS SUBJECTED TO FATIGUE SHALL BE PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD.

TABLE N5.4-2 INSPECTION TASKS DURING WELDING (AISC 360-22)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL (REF: IBC 1705.2)

INSPECTION TASKS DURING WELDING	QC	QA
1. CONTROL HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	O	O
2. NO WELDING OVER CRACKED TACK WELDS	O	O
3. ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	O	O
4. WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)	O	O
5. WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	O	O
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	P	P

TABLE N5.4-3 INSPECTION TASKS AFTER WELDING (AISC 360-22)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL (REF: IBC 1705.2)

INSPECTION TASKS AFTER WELDING	QC	QA
1. WELDS CLEANED	O	O
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY	P	P
4. ARC STRIKES	P	P
5. k-AREA[a]	P	P
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES[b]	P	P
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P	P
8. REPAIR ACTIVITIES	P	P
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER[c]	P	P
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	O	O

NOTE:
a. WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" (75mm) OF THE WELD.
b. AFTER ROLLED HEAVY SHAPES (SEE REFERENCED AISC 360 SECTION A3.1d) AND BUILT-UP HEAVY SHAPES (SEE REFERENCED AISC 360 A3.1e) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.
c. DIE STAMPING OF MEMBERS SUBJECTED TO FATIGUE SHALL BE PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD.

TABLE NOTATION:
- O = OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT TO BE DELAYED PENDING THESE INSPECTIONS.
- P = PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
- QC = QUALITY CONTROL INSPECTION TASKS SHALL BE PERFORMED BY THE FABRICATORS' OR ERECTOR'S QUALITY CONTROL INSPECTOR, AS APPLICABLE.
- QA = QUALITY ASSURANCE INSPECTIONS OF FABRICATED ITEMS SHALL BE MADE AT THE FABRICATOR'S PLANT AND TO BE PERFORMED BY THE FABRICATOR'S QUALITY ASSURANCE INSPECTOR.

INDICATES NON-APPLICABLE AREA

TABLE N5.6-1 INSPECTION TASKS PRIOR TO BOLTING (AISC 360-22)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL (REF: IBC 1705.2)

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
1. MANUFACTURER'S CERTIFICATE AVAILABLE FOR FASTENER MATERIALS	O	P
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	O	O
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O
5. CONNECTION ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P	O
7. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O

TABLE N5.6-2 INSPECTION TASKS DURING BOLTING (AISC 360-22)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL (REF: IBC 1705.2)

INSPECTION TASKS DURING BOLTING	QC	QA
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	O	O
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	O	O

TABLE N5.6-3 INSPECTION TASKS AFTER BOLTING (AISC 360-22)
REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL (REF: IBC 1705.2)

INSPECTION TASKS AFTER BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P

TABLE NOTATION:
- O = OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT TO BE DELAYED PENDING THESE INSPECTIONS
- P = PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER.
- QC = QUALITY CONTROL IN CONFORMANCE WITH RCSC SPECIFICATIONS
- QA = QUALITY ASSURANCE IN CONFORMANCE WITH RCSC SPECIFICATIONS

INDICATES NON-APPLICABLE AREA

IBC 2021 - 1705.4 - REF: TABLE 3.1 (TMS 402, 2016) MINIMUM QUALITY ASSURANCE LEVEL
REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

DESIGNED IN ACCORDANCE WITH	RISK CATEGORY I,II OR III	RISK CATEGORY IV
PART 3 OR APPENDIX B OR APPENDIX C	LEVEL 2	LEVEL 3
PART 4	LEVEL 1	LEVEL 2
APPENDIX A	LEVEL 1	NOT PERMITTED

INDICATES NON-APPLICABLE AREA

IBC 2021 - 1705.4 - REF: TABLE 3 (TMS 602, 2022) MINIMUM VERIFICATION REQUIREMENTS
REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE[A]			REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	R	R	R	ART. 1.5
PRIOR CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC} EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	NR	R	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R	ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC} FOR EVERY 5,000 SQ.FT. (465 SQ. m).	NR	NR	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R	ART. 1.4 B

(A) R = REQUIRED, NR = NOT REQUIRED
INDICATES NON-APPLICABLE AREA

IBC 2021 - 1705.4 - REF: TABLE 4 (TMS 602, 2022) MINIMUM SPECIAL INSPECTION REQUIREMENTS
REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

INSPECTION TASK	FREQUENCY [A]			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. PROPORTIONS OF SITE-PREPARED MORTAR.	NR	P	P		ART. 2.1, 2.6 A, & 2.6 C
B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	P		ART. 2.4 B & 2.4 H
C. GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	P		ART. 3.4 & 3.6 A
D. PRESTRESSING TECHNIQUE.	NR	P	P		ART. 3.6 B
E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	NR	C[B]/P[C]	C		ART. 2.1 C.1
F. SAMPLE PANEL CONSTRUCTION.	NR	P	C		ART. 1.6 D
2. PRIOR TO GROUTING VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
A. GROUT SPACE.	NR	P	C		ART. 3.2 D & 3.2 F
B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES.	NR	P	P	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS.	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.4 & 3.6 A
D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT BONDED TENDONS.	NR	P	P		ART. 2.6 B & 2.4 G.1.B
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION :					
A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS.	NR	P	P		ART. 1.5
B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION.	NR	P	P		ART. 3.3 B
C. SIZE AND LOCATION OF STRUCTURAL MEMBERS.	NR	P	P		ART. 3.3 F
D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	NR	P	C	SEC. 1.2.1 (E), 6.2.1, & 6.3.1	
E. WELDING OF REINFORCEMENT.	NR	C	C	SEC. 6.1.6.1.2	
F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40^{o} F (4.4^{o} C)) OR HOT WEATHER (TEMPERATURE ABOVE 90^{o} F (32.2^{o} C)).	NR	P	P		ART. 1.8 C & 1.8 D
G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	NR	C	C		ART. 3.6 B
H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	NR	C	C		ART. 3.5 & 3.6C
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	NR	C[B]/P[C]	C		ART. 3.3 B.9 & 3.3 F.1.B
4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	NR	P	C		ART. 1.4B.2.A.3, 1.4.2.B.3, 1.4B.2.C.3, 1.4B.3, &1.4B.4

(A) FREQUENCY REFERS TO THE FREQUENCY WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OT PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
NR = NOT REQUIRED, P = PERIODIC, C = CONTINUOUS
(B) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY
(C) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY
INDICATES NON-APPLICABLE AREA

IBC 2021 - TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	—	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	—	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	—	X

INDICATES NON-APPLICABLE AREA

IBC 2021 - TABLE 1705.8
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENTS	X	—
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE), AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES	X	—
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	IN ACCORDANCE WITH SECTION 1705.3	

INDICATES NON-APPLICABLE AREA

BG+ co.
Architecture
Interior Design
Project Management
622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office
BLYTHE GROUP + co.

HCL ENGINEERS•SURVEYORS•ARCHITECTS
HCL Engineering & Surveying, LLC
622 Rood Avenue, Unit B
Grand Junction, CO 81501
970-549-1940
HCLengineering.com

GRAND JUNCTION MATERIALS RECOVERY FACILITY RENOVATION

365 32 RD, GRAND JUNCTION, CO 81520

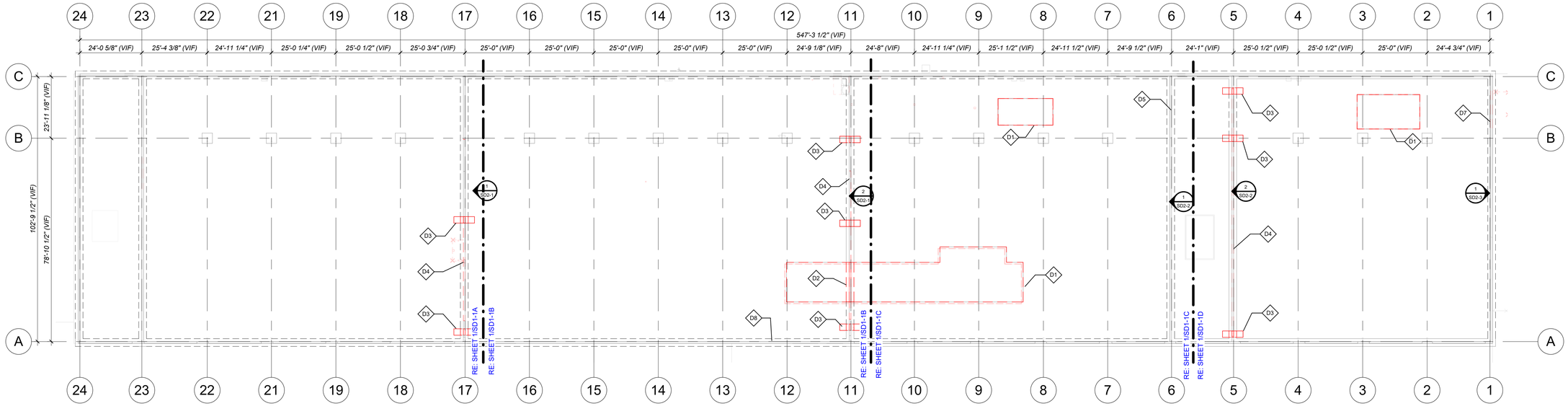
SPECIAL INSPECTIONS

BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026
PROJECT #: 250182
SHEET #:
S0-3

Project Team:
Print Date: 2/2/2026 5:53:15 PM

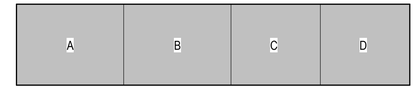


1 SD1-0 **OVERALL FOUNDATION DEMO PLAN**

1" = 20'-0"

NOTE NO.	NOTE DESCRIPTION
D1	DEMO (E) SLAB FOR (N) PIT
D2	PARTIAL DEMO (E) STEM WALL AND FOOTING FOR (N) PIT
D3	PARTIAL DEMO (E) SLAB, STEM WALL AND FOOTING FOR (N) PILE CAP FOUNDATIONS
D4	DEMO (E) CMU WALL. RE: ELEV FOR EXTENTS
D5	PARTIAL DEMO (E) CMU WALL. RE: ELEV FOR EXTENTS
D7	PARTIAL DEMO (E) EXTERIOR WALL. RE: ELEV FOR EXTENTS
D8	PARTIAL DEMO (E) EXTERIOR WALL. RE: ARCH FOR LOCATION.

KEYPLAN



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OVERALL FOUNDATION DEMO PLAN

BP1 - FOR CONSTRUCTION

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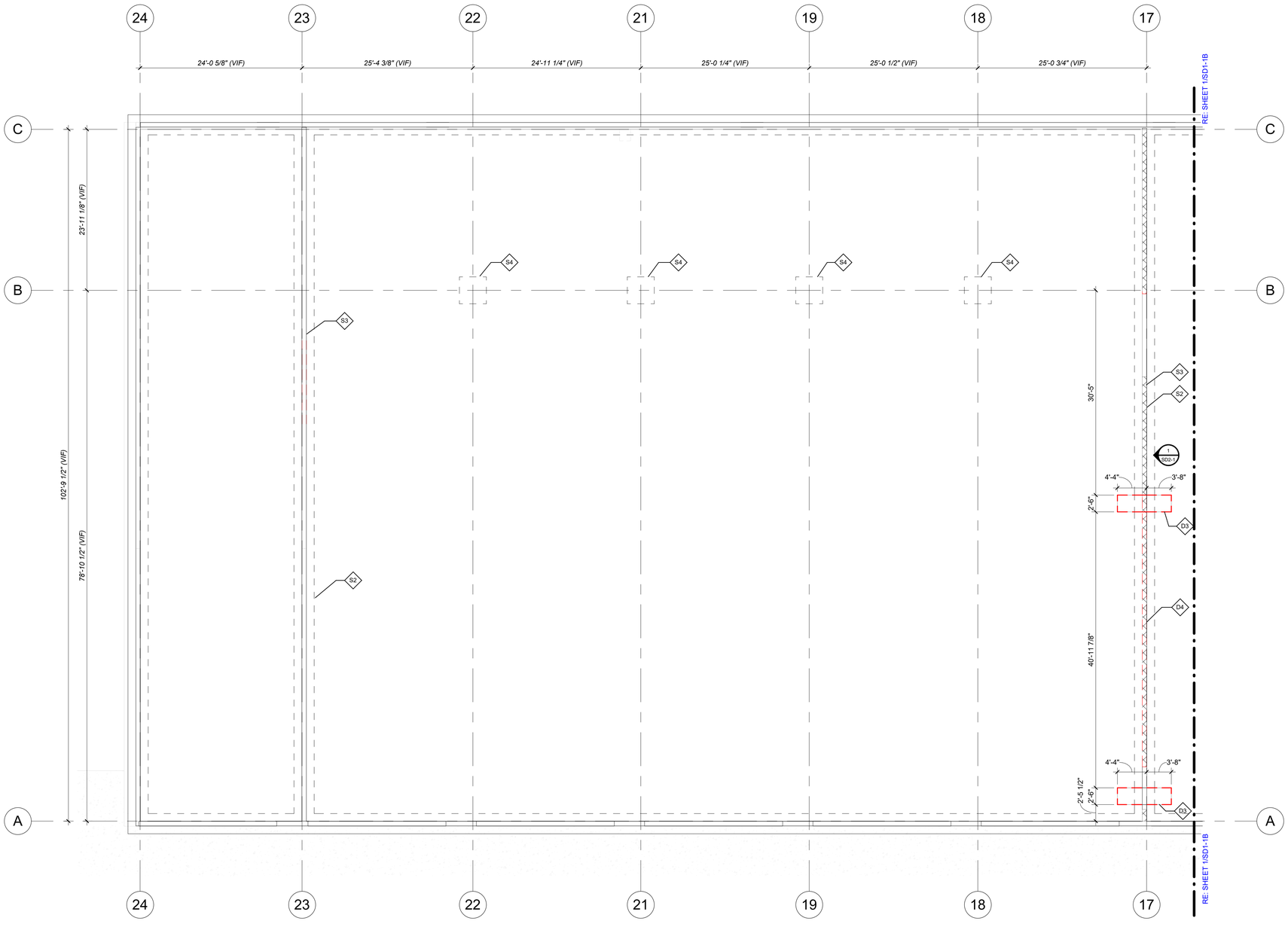
DATE: 2/2/2026

PROJECT #: 250182

SHEET #:

SD1-0

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1 SD1-1A FOUNDATION DEMO PLAN - AREA A

1/8" = 1'-0"

N

NOTE NO.	NOTE DESCRIPTION
D3	PARTIAL DEMO (E) SLAB, STEM WALL AND FOOTING FOR (N) PILE CAP FOUNDATIONS
D4	DEMO (E) CMU WALL. RE: ELEV FOR EXTENTS
S2	(E) INTERIOR WALL FOUNDATION. VIF DIMENSIONS AND LOCATION
S3	(E) CMU SHEAR WALL
S4	(E) INTERIOR COLUMN FOUNDATION. ASSUMED 4'x4'x1', LOCATED BELOW (E) SLAB-ON-GRADE.

KEYPLAN

A	B	C	D

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FOUNDATION DEMO PLAN - AREA A

BP1 - FOR CONSTRUCTION

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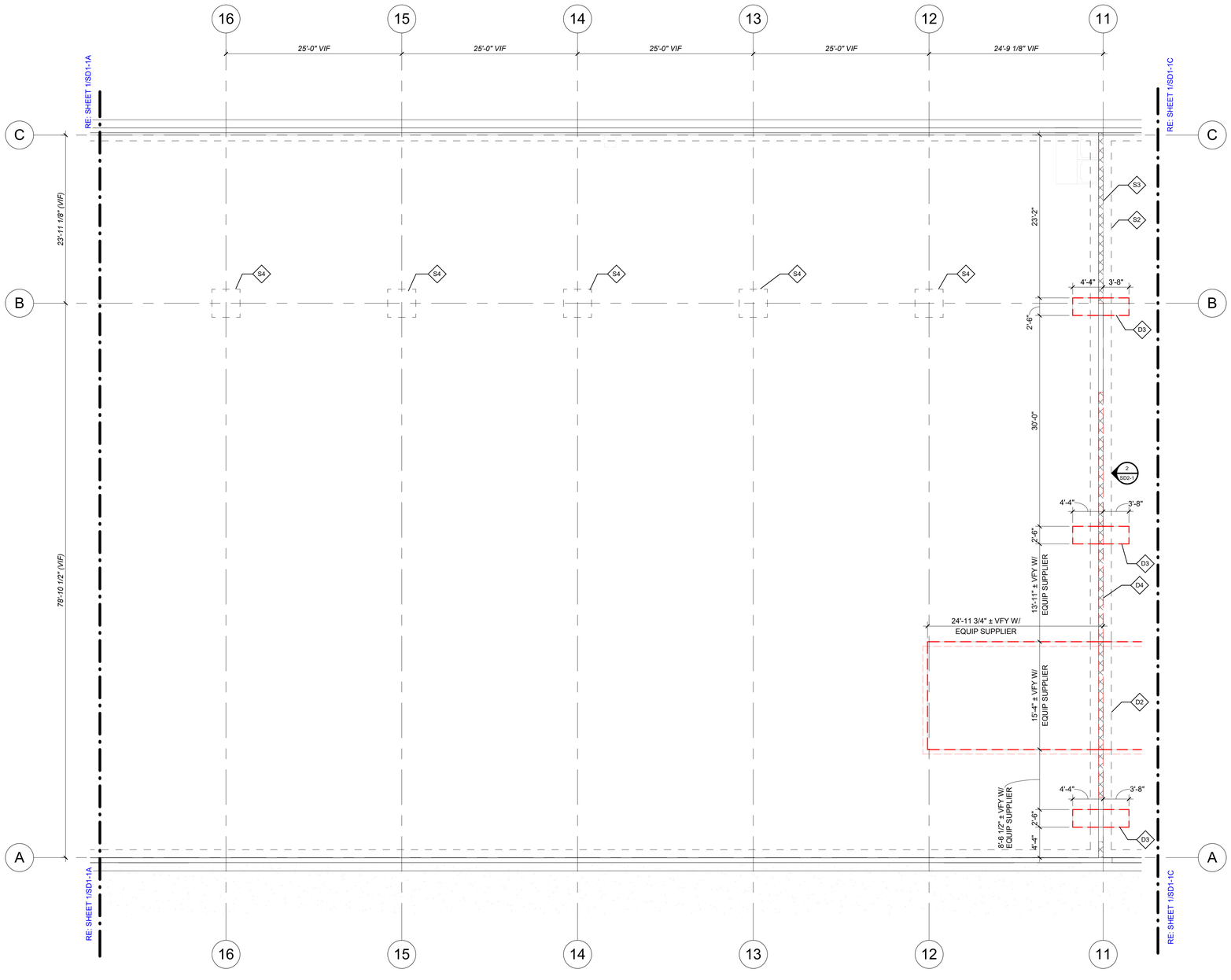
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PROJECT #: 250182

SHEET #:

SD1-1A

Project Team:
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1 SD1-1B FOUNDATION DEMO PLAN - AREA B

1/8" = 1'-0"

N

NOTE NO.	NOTE DESCRIPTION
D2	PARTIAL DEMO (E) STEM WALL AND FOOTING FOR (N) PIT
D3	PARTIAL DEMO (E) SLAB, STEM WALL AND FOOTING FOR (N) PILE CAP FOUNDATIONS
D4	DEMO (E) CMU WALL. RE: ELEV FOR EXTENTS
S2	(E) INTERIOR WALL FOUNDATION. VIF DIMENSIONS AND LOCATION
S3	(E) CMU SHEAR WALL
S4	(E) INTERIOR COLUMN FOUNDATION. ASSUMED 4'x4'x1', LOCATED BELOW (E) SLAB-ON-GRADE.

KEYPLAN

A	B	C	D

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FOUNDATION DEMO PLAN - AREA B

BP1 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

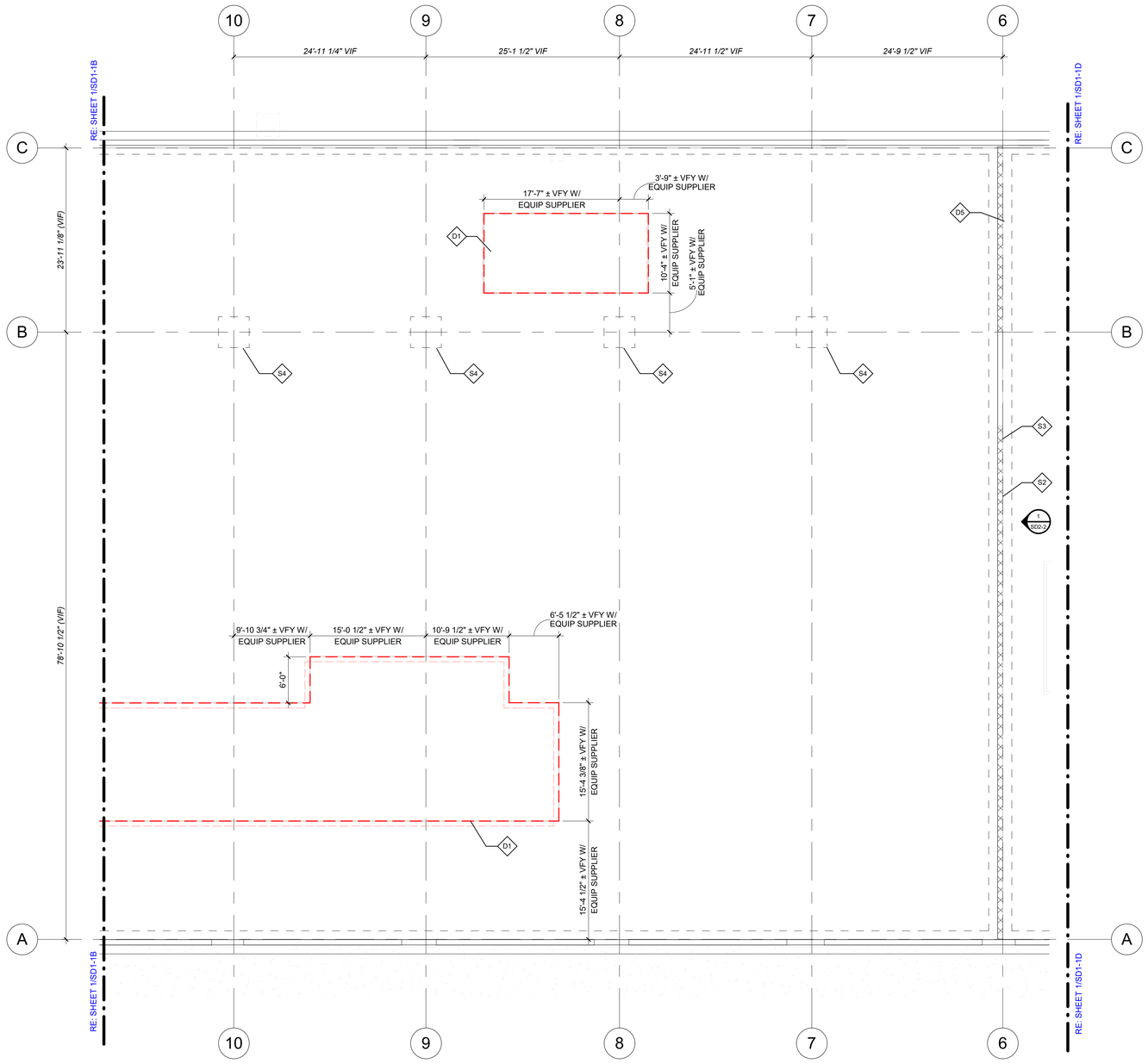
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SHEET #:

SD1-1B

Project Team:

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1 SD1-1C FOUNDATION DEMO PLAN - AREA C

1/8" = 1'-0"

N

NOTE NO.	NOTE DESCRIPTION
D1	DEMO (E) SLAB FOR (N) PIT
D5	PARTIAL DEMO (E) CMU WALL. RE: ELEV FOR EXTENTS
S2	(E) INTERIOR WALL FOUNDATION. VIF DIMENSIONS AND LOCATION
S3	(E) CMU SHEAR WALL
S4	(E) INTERIOR COLUMN FOUNDATION. ASSUMED 4'x4'x1', LOCATED BELOW (E) SLAB-ON-GRADE.

KEYPLAN

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FOUNDATION DEMO PLAN - AREA C

BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026

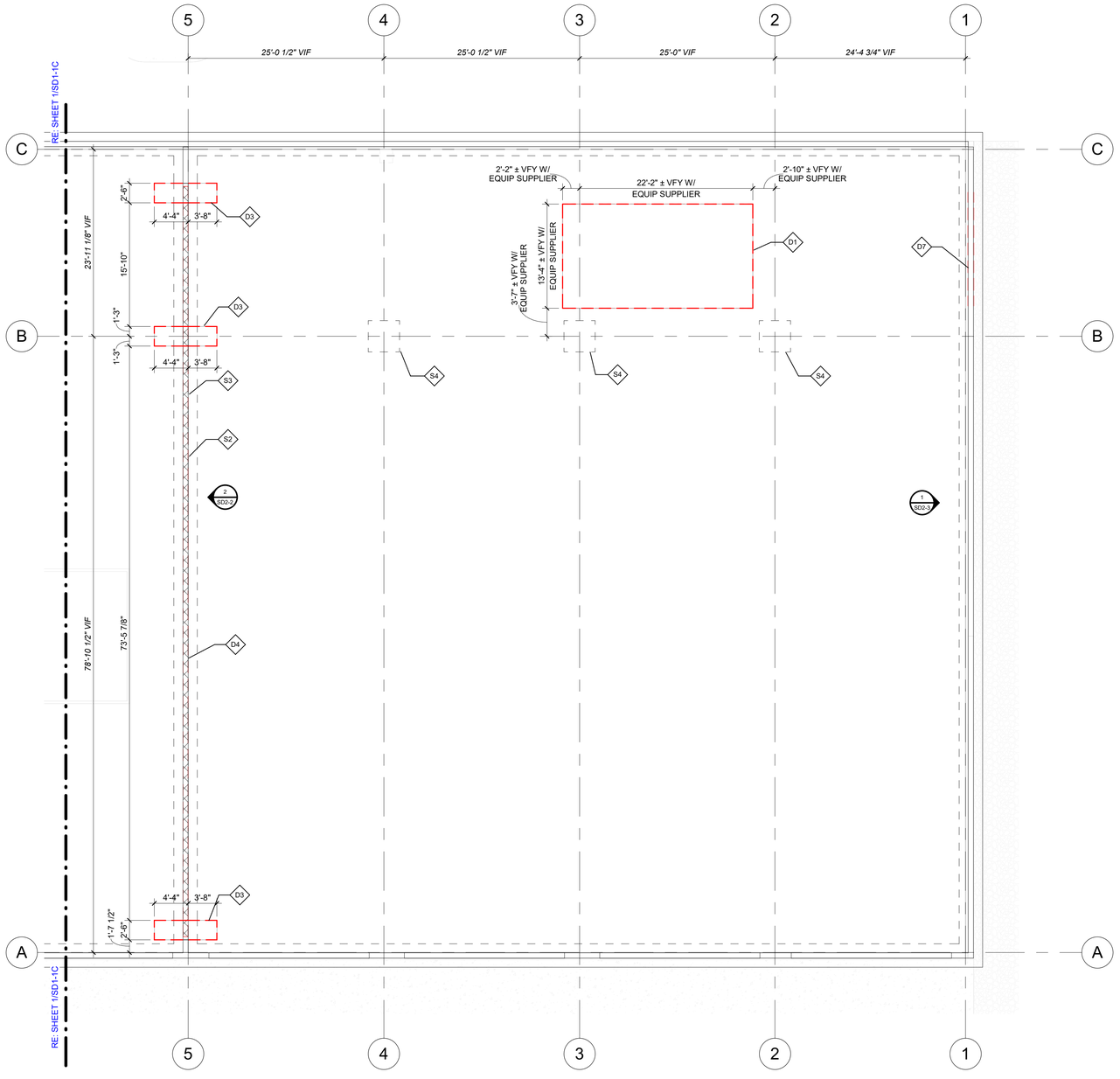
PROJECT #: 250182

SHEET #:

SD1-1C

Project Team:

Print Date: 2/2/2026 5:53:18 PM



1 SD1-1D FOUNDATION DEMO PLAN - AREA D

1/8" = 1'-0"

N

NOTE NO.	NOTE DESCRIPTION
D1	DEMO (E) SLAB FOR (N) PIT
D3	PARTIAL DEMO (E) SLAB, STEM WALL AND FOOTING FOR (N) PILE CAP FOUNDATIONS
D4	DEMO (E) CMU WALL. RE: ELEV FOR EXTENTS
D7	PARTIAL DEMO (E) EXTERIOR WALL. RE: ELEV FOR EXTENTS
S2	(E) INTERIOR WALL FOUNDATION. VIF DIMENSIONS AND LOCATION
S3	(E) CMU SHEAR WALL
S4	(E) INTERIOR COLUMN FOUNDATION. ASSUMED 4'x4'x1', LOCATED BELOW (E) SLAB-ON-GRADE.

KEYPLAN

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FOUNDATION DEMO PLAN - AREA D

BP1 - FOR CONSTRUCTION

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DATE: 2/2/2026

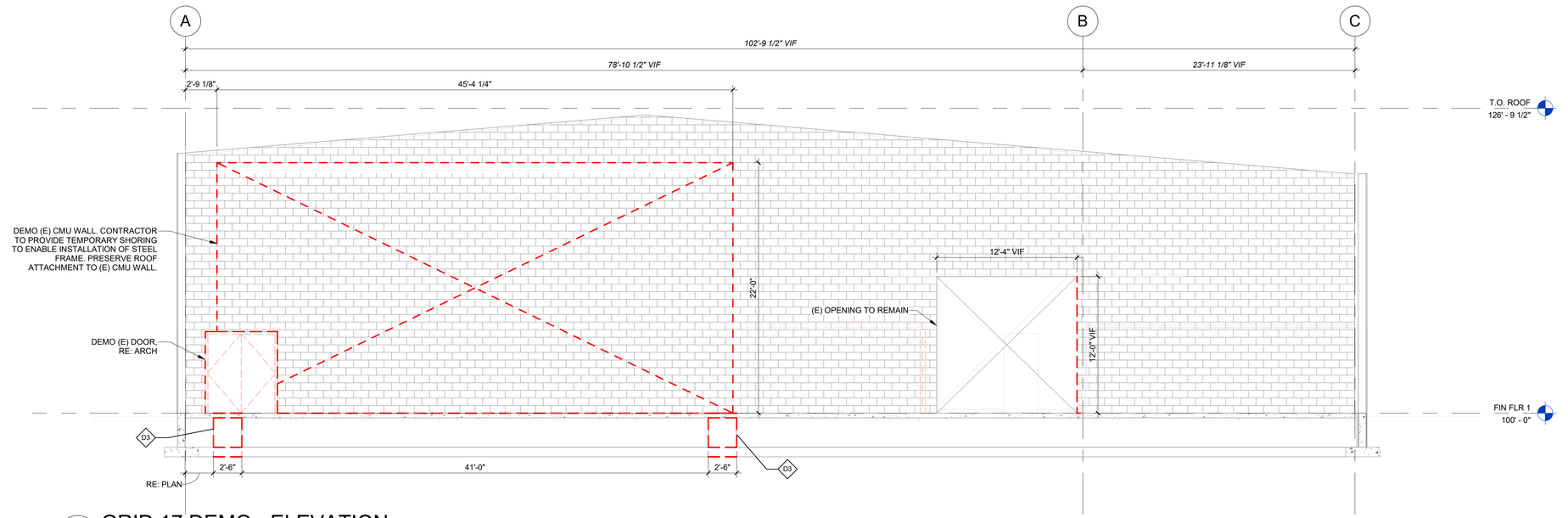
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SHEET #:

SD1-1D

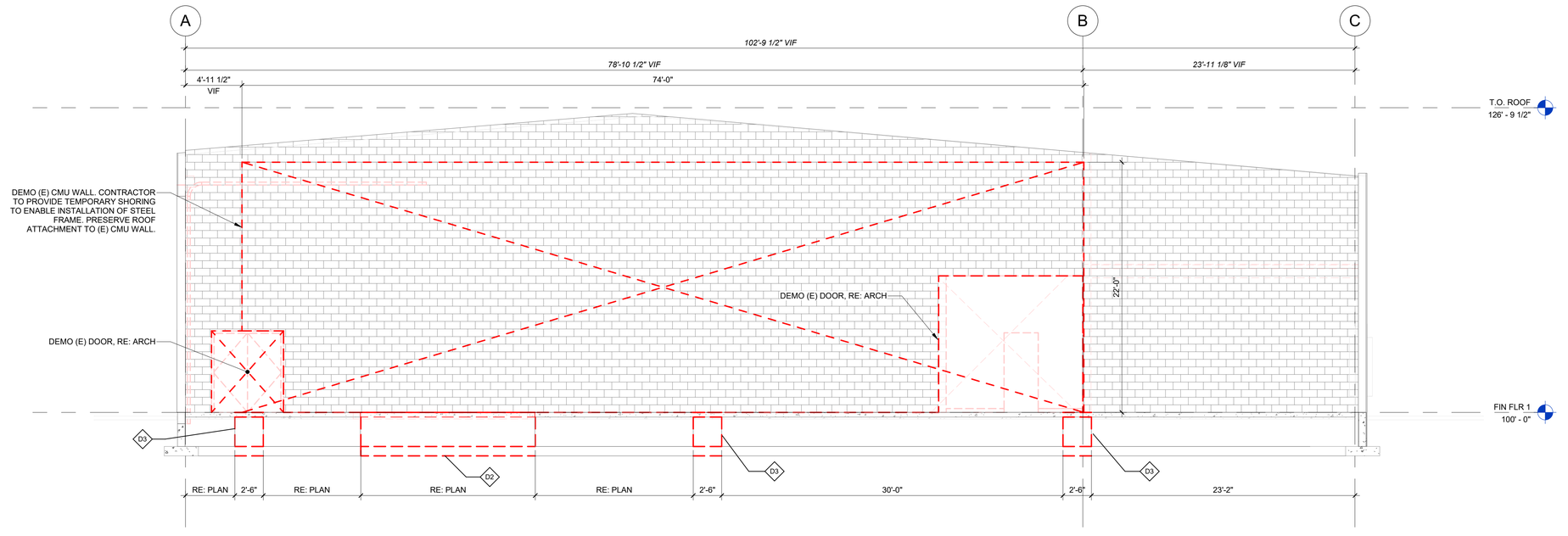
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1 SD2-1 GRID 17 DEMO - ELEVATION

3/16" = 1'-0"



2 SD2-1 GRID 11 DEMO - ELEVATION

3/16" = 1'-0"

NOTE NO.	NOTE DESCRIPTION
D2	PARTIAL DEMO (E) STEM WALL AND FOOTING FOR (N) PIT
D3	PARTIAL DEMO (E) SLAB, STEM WALL AND FOOTING FOR (N) PILE CAP FOUNDATIONS

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DEMO - WALL ELEVATIONS

BP1 - FOR CONSTRUCTION

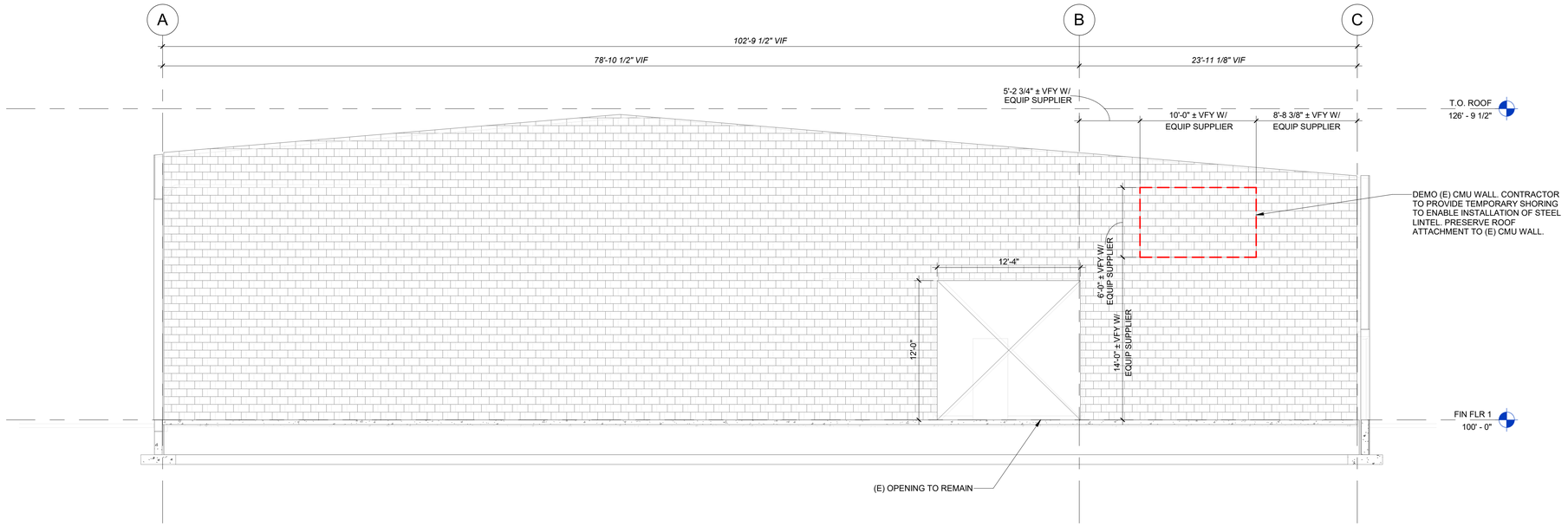
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DATE: 2/2/2026

PROJECT #: 250182

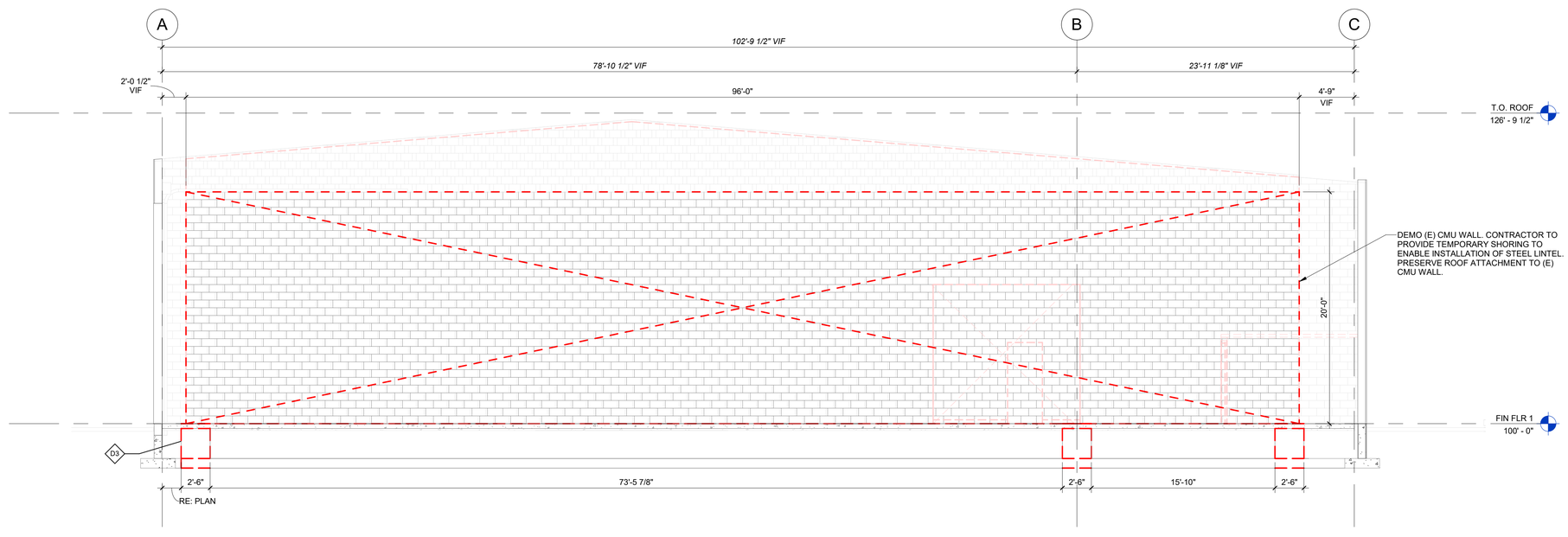
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SD2-1



1 SD2-2 GRID 6 DEMO - ELEVATION

3/16" = 1'-0"



2 SD2-2 GRID 5 DEMO - ELEVATION

3/16" = 1'-0"

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DEMO - WALL ELEVATIONS

BP1 - FOR CONSTRUCTION

REV.	DESC.	DATE:

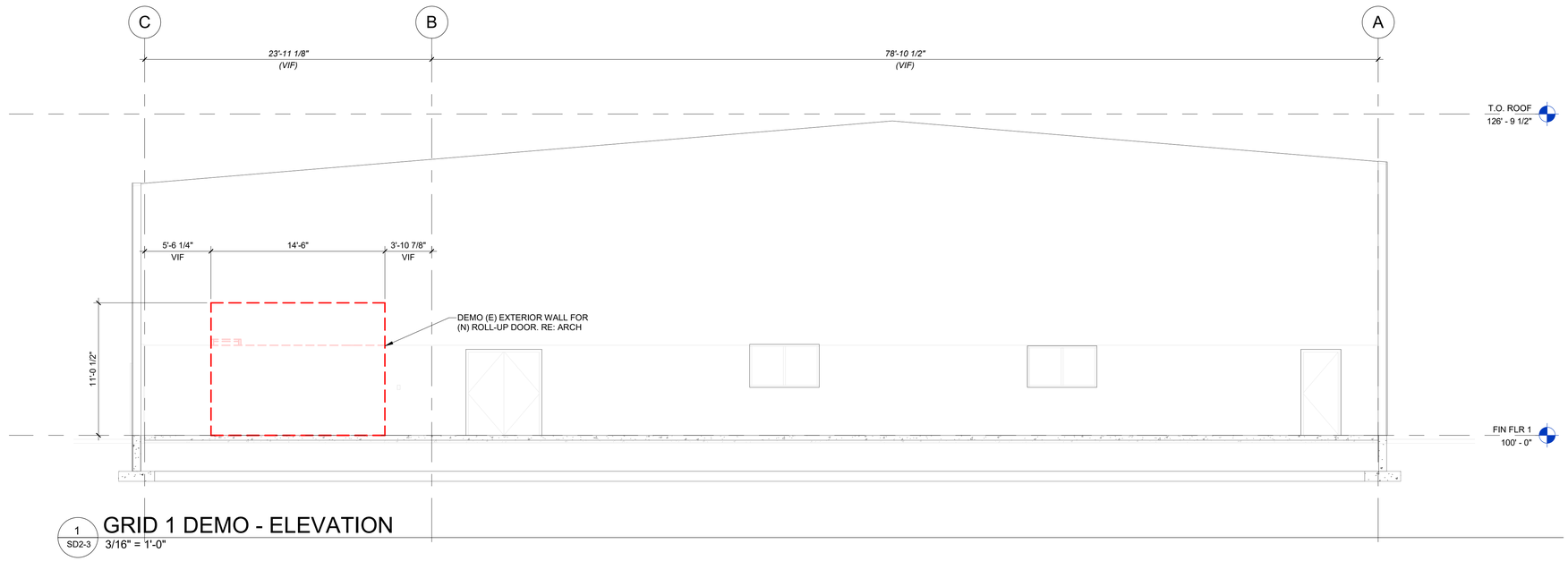
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SHEET #:

SD2-2

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1 SD2-3 GRID 1 DEMO - ELEVATION

3/16" = 1'-0"

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DEMO - WALL ELEVATIONS

BP1 - FOR CONSTRUCTION

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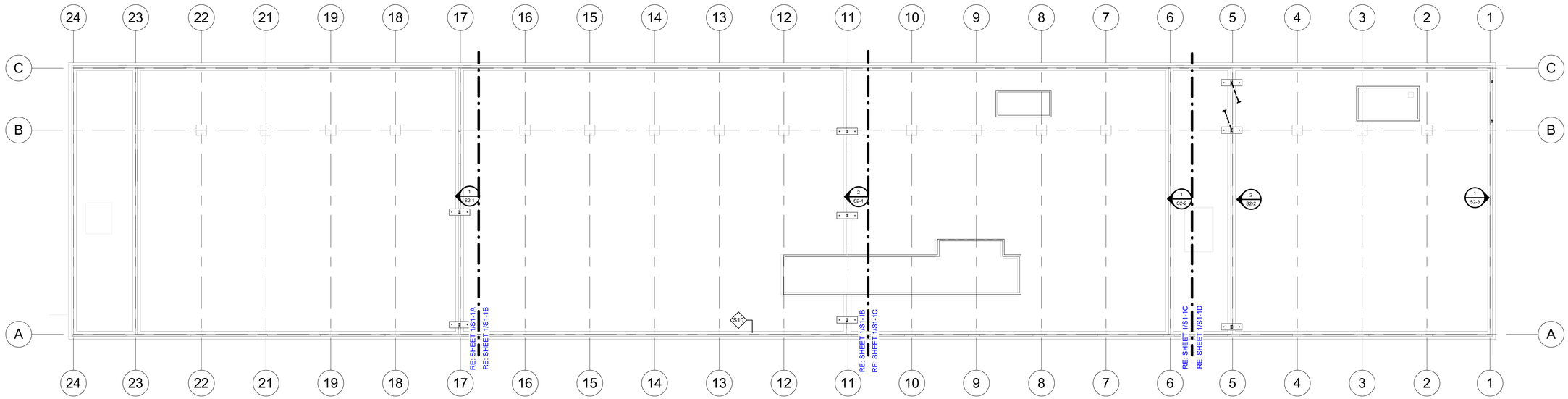
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SHEET #:

SD2-3

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1 S1-0 OVERALL FOUNDATION PLAN

1" = 20'-0"

N

KEYPLAN

A	B	C	D

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OVERALL FOUNDATION PLAN

BP1 - FOR CONSTRUCTION

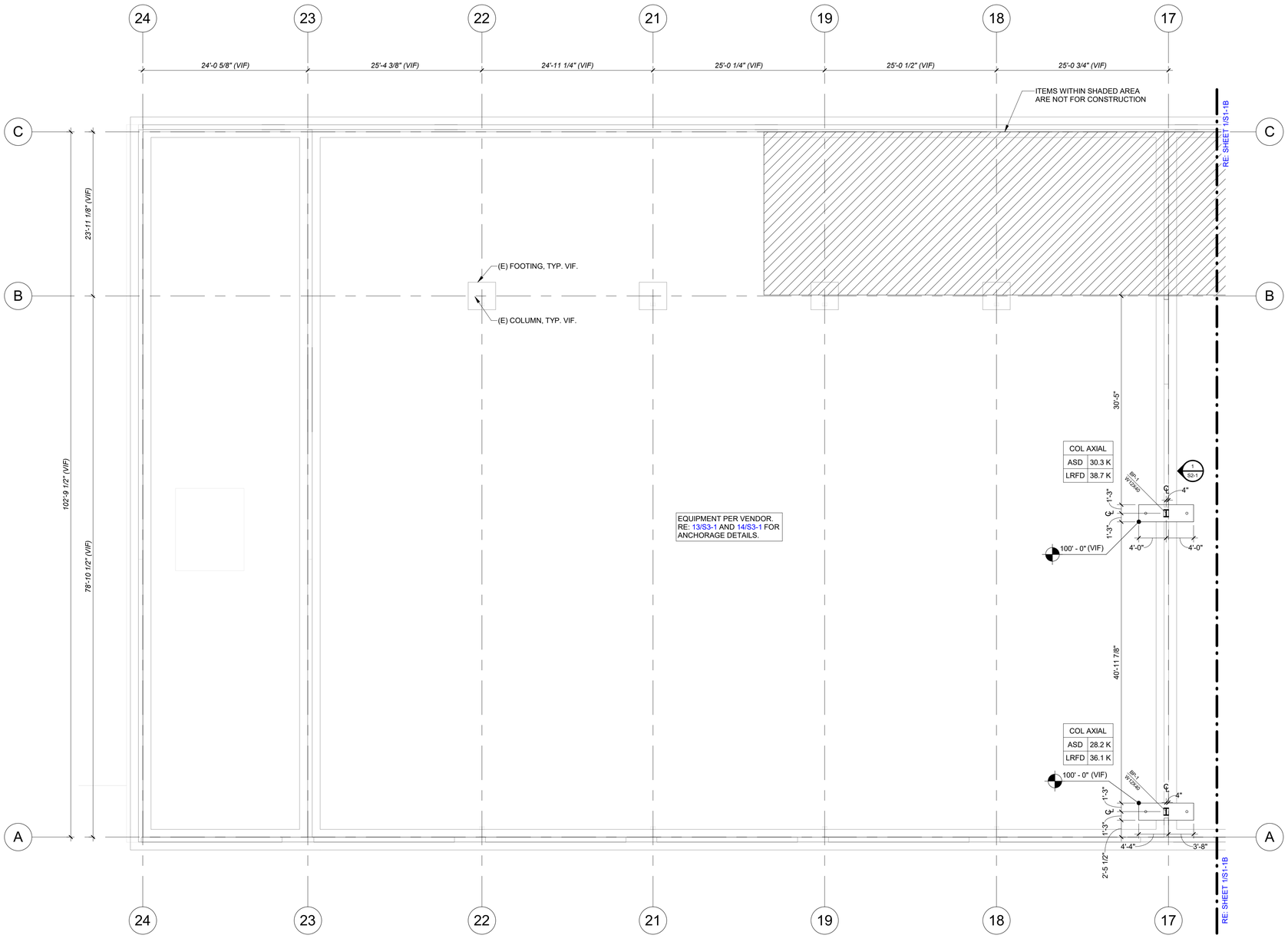
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DATE: 2/2/2026

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SHEET #:

S1-0

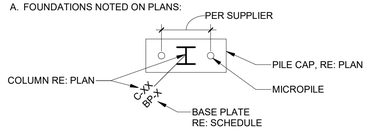


1 S1-1A FOUNDATION PLAN - AREA A

1/8" = 1'-0"

FOUNDATION NOTES

1. TOP OF FLOOR SLAB ELEVATION SHOWN THUS XXX'-XX" ON PLAN.
2. SLAB SHALL SLOPE UNIFORMLY BETWEEN POINTS OF UNEQUAL ELEVATION UNO.
3. (E) SLAB-ON-GRADE IS 5" THICK NORMAL WEIGHT CONCRETE, UNREINFORCED. (VIF)
4. MICROPILES (DELEGATED DESIGN):
   A. MICROPILES TO BE CENTERED ON PILE CAP.
   B. MINIMUM TWO PILES PER LOCATION AS SHOWN.
   C. MINIMUM GROUT STRENGTH = 6,000 PSI
   D. MINIMUM DIAMETER = 4 IN
   E. MINIMUM REINFORCEMENT: (1) #11 x CONT.
   F. SEE PLAN FOR LOADING.
   G. SEE GEN NOTES AND GEOTECHNICAL REPORT FOR MORE INFORMATION.
5. PIT SLABS SHALL BE CONSTRUCTED OVER NATIVE SOIL. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISITNG BUILDING ELEMENTS ON DESIGN PLANS AND NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
8. FOUNDATION NOMENCLATURE:
   A. FOUNDATIONS NOTED ON PLANS:



KEYPLAN

A	B	C	D

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FOUNDATION PLAN - AREA A

BP1 - FOR CONSTRUCTION

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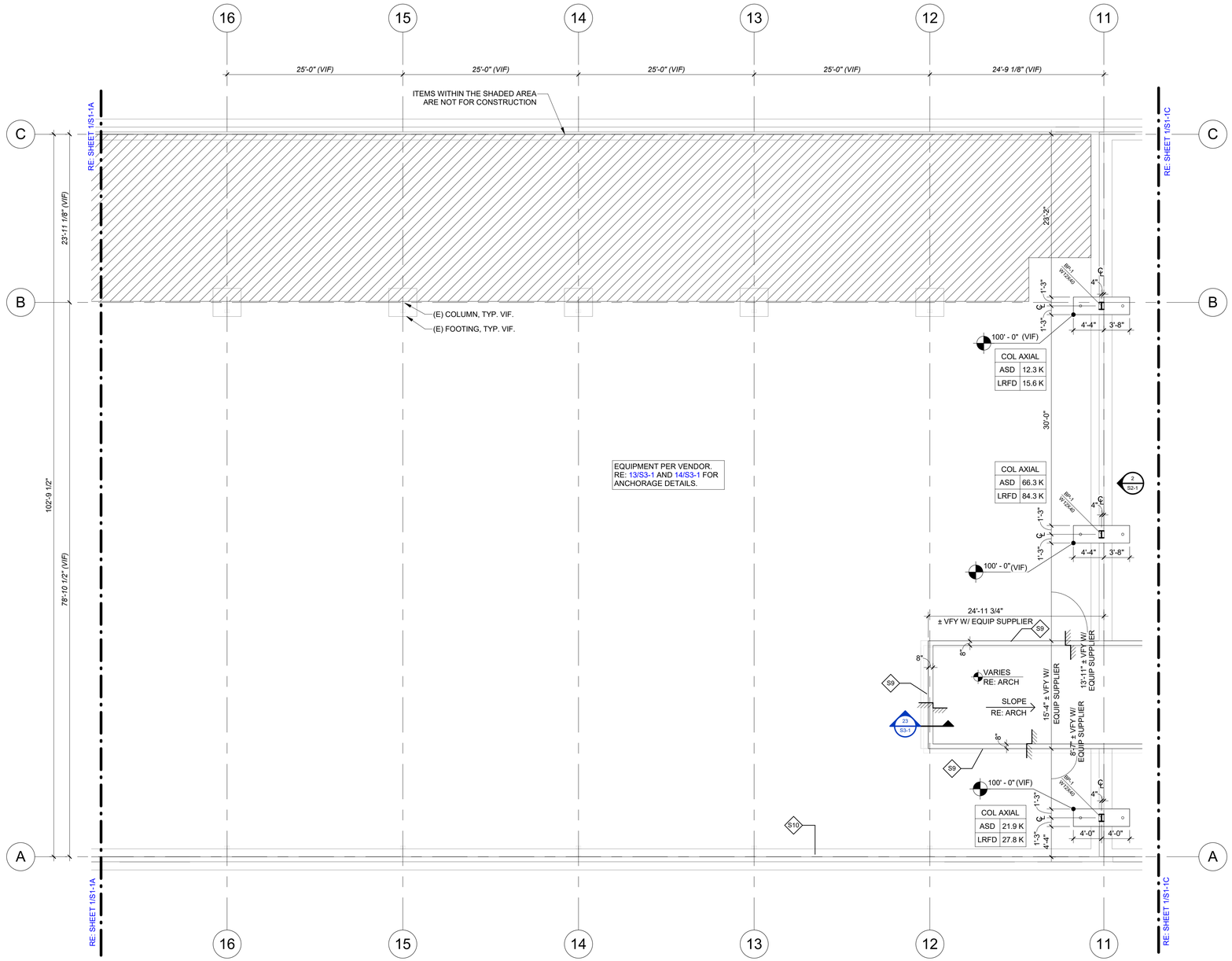
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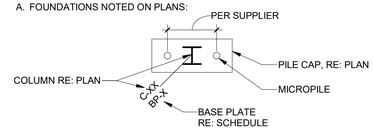
S1-1A

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FOUNDATION NOTES

1. TOP OF FLOOR SLAB ELEVATION SHOWN THUS XXX'-XX" ON PLAN.
2. SLAB SHALL SLOPE UNIFORMLY BETWEEN POINTS OF UNEQUAL ELEVATION UNO.
3. (E) SLAB-ON-GRADE IS 5" THICK NORMAL WEIGHT CONCRETE, UNREINFORCED. (VIF)
4. MICROPILES (DELEGATED DESIGN):
   A. MICROPILES TO BE CENTERED ON PILE CAP.
   B. MINIMUM TWO PILES PER LOCATION AS SHOWN.
   C. MINIMUM GROUT STRENGTH = 6,000 PSI
   D. MINIMUM DIAMETER = 4 IN
   E. MINIMUM REINFORCEMENT: (1) #11 x CONT.
   F. SEE PLAN FOR LOADING.
   G. SEE GEN NOTES AND GEOTECHNICAL REPORT FOR MORE INFORMATION.
5. PIT SLABS SHALL BE CONSTRUCTED OVER NATIVE SOIL. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISITNG BUILDING ELEMENTS ON DESIGN PLANS AND NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
8. FOUNDATION NOMENCLATURE:
   A. FOUNDATIONS NOTED ON PLANS:



NOTE NO.	NOTE DESCRIPTION
S9	PIT EDGE ANGLE REQUIRED, RE: 24/S3-1
S10	SUPPORTS FOR OPENING IN (E) EXTERIOR WALL, RE: 31/S5-1. RE ARCH FOR LOCATION

1 / S1-1B FOUNDATION PLAN - AREA B

1/8" = 1'-0"

N

KEYPLAN

A	B	C	D

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FOUNDATION PLAN - AREA B

BP1 - FOR CONSTRUCTION

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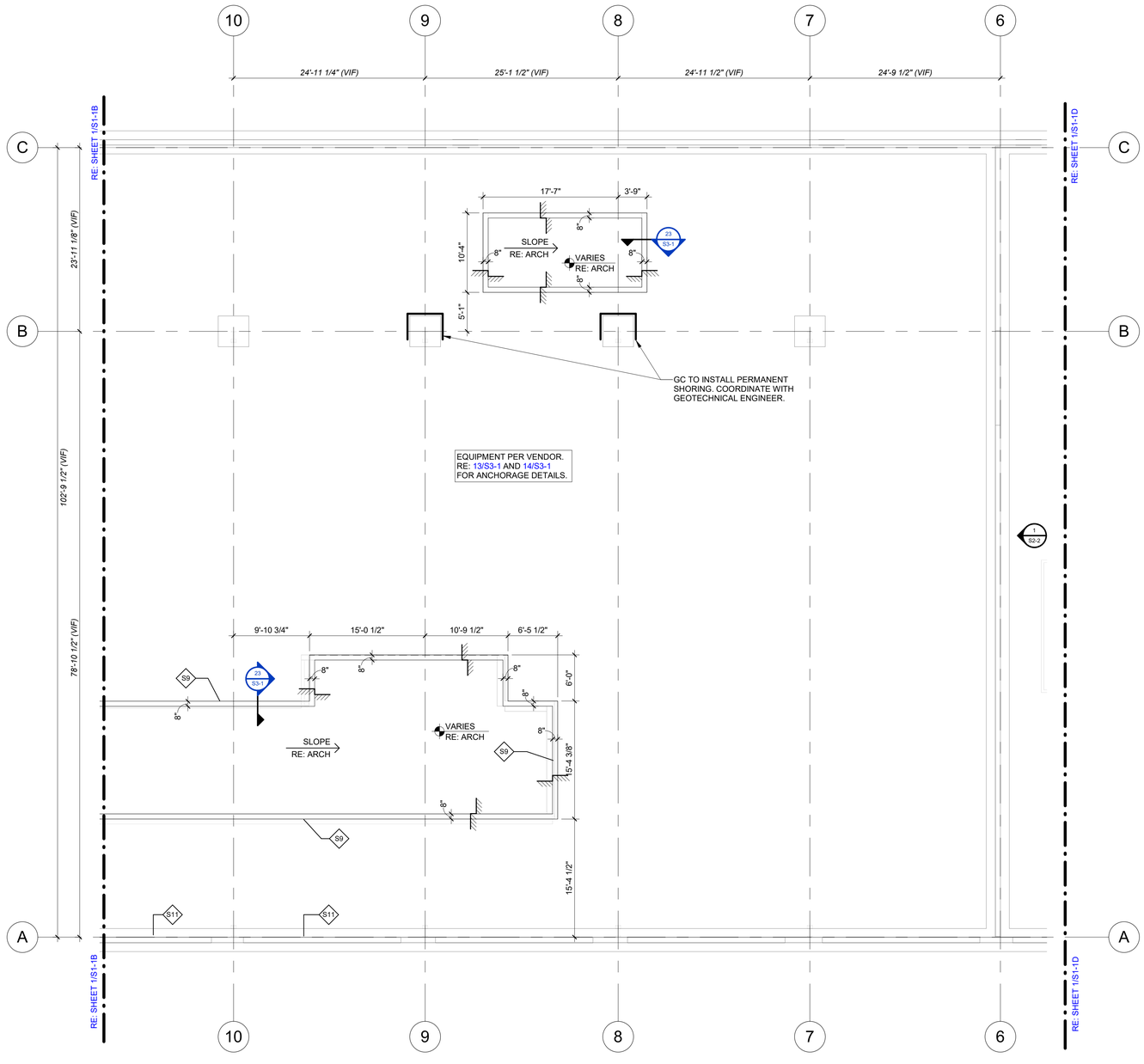
PROJECT #: 250182

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S1-1B

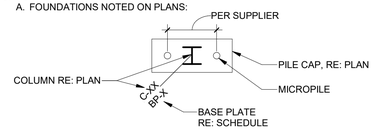
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FOUNDATION NOTES

1. TOP OF FLOOR SLAB ELEVATION SHOWN THUS XXX'-XX" ON PLAN.
2. SLAB SHALL SLOPE UNIFORMLY BETWEEN POINTS OF UNEQUAL ELEVATION UNO.
3. (E) SLAB-ON-GRADE IS 5" THICK NORMAL WEIGHT CONCRETE, UNREINFORCED. (VIF)
4. MICROPILES (DELEGATED DESIGN):
   A. MICROPILES TO BE CENTERED ON PILE CAP.
   B. MINIMUM TWO PILES PER LOCATION AS SHOWN.
   C. MINIMUM GROUT STRENGTH = 6,000 PSI
   D. MINIMUM DIAMETER = 4 IN
   E. MINIMUM REINFORCEMENT: (1) #11 x CONT.
   F. SEE PLAN FOR LOADING.
   G. SEE GEN NOTES AND GEOTECHNICAL REPORT FOR MORE INFORMATION.
5. PIT SLABS SHALL BE CONSTRUCTED OVER NATIVE SOIL. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISITNG BUILDING ELEMENTS ON DESIGN PLANS AND NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
8. FOUNDATION NOMENCLATURE:
   A. FOUNDATIONS NOTED ON PLANS:



1 S1-1C FOUNDATION PLAN - AREA C

1/8" = 1'-0"

NOTE NO.	NOTE DESCRIPTION
S9	PIT EDGE ANGLE REQUIRED. RE: 24/S3-1
S11	(N) STEEL HSS HEADER REQ'D TO SUPPORT COILING DOOR. SIZE TBD WHEN PRODUCT DATA IS AVAILABLE. RE: 33/S5-2 AND 34/S5-2

KEYPLAN

A	B	C	D

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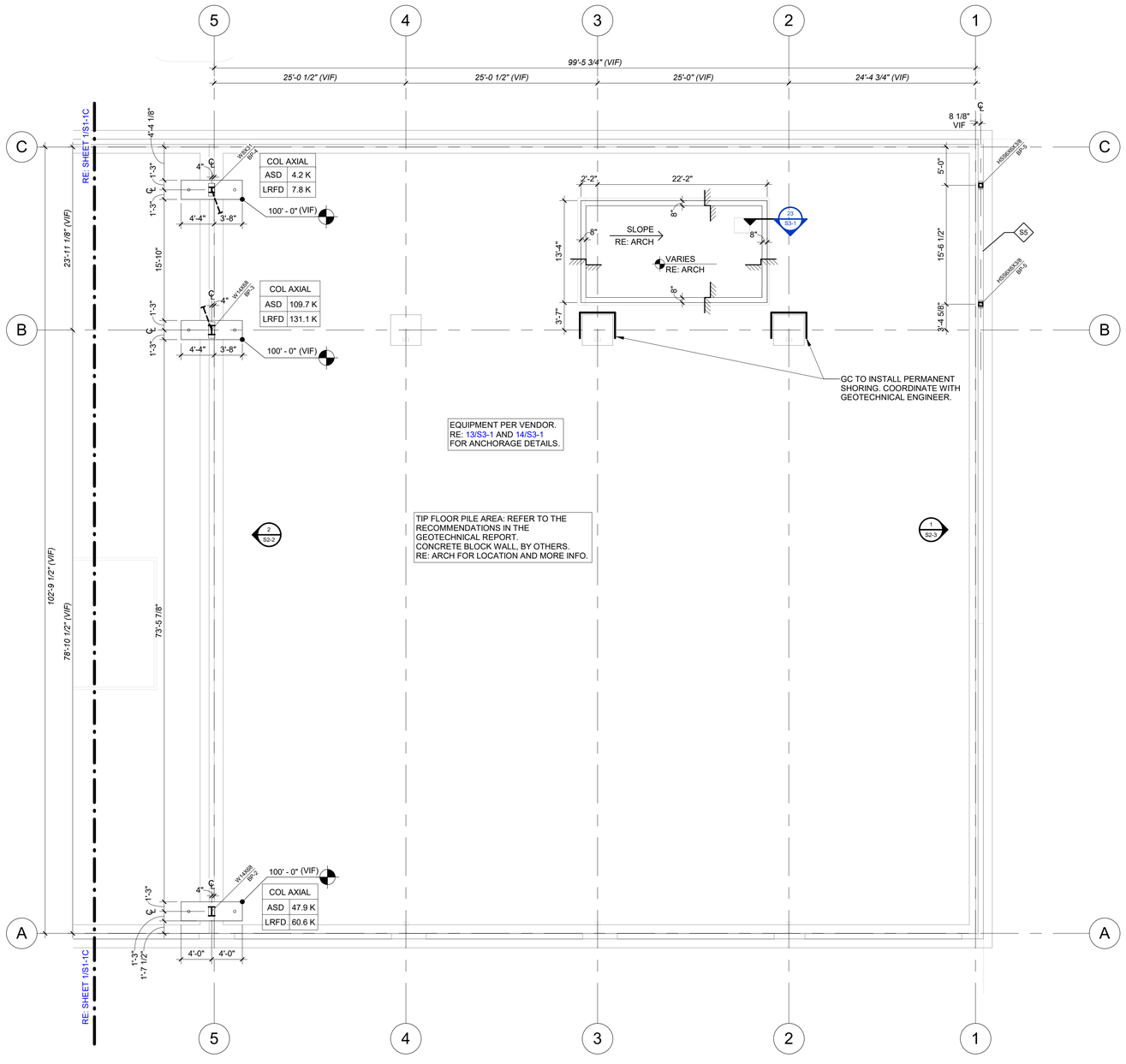
FOUNDATION PLAN - AREA C

BP1 - FOR CONSTRUCTION

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S1-1C

Project Team:
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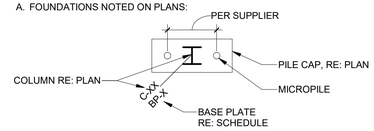


1 S1-1D **FOUNDATION PLAN - AREA D**

1/8" = 1'-0"

FOUNDATION NOTES

1. TOP OF FLOOR SLAB ELEVATION SHOWN THUS XXX'-XX" ON PLAN.
2. SLAB SHALL SLOPE UNIFORMLY BETWEEN POINTS OF UNEQUAL ELEVATION UNO.
3. (E) SLAB-ON-GRADE IS 5" THICK NORMAL WEIGHT CONCRETE, UNREINFORCED. (VIF)
4. MICROPILES (DELEGATED DESIGN):
   A. MICROPILES TO BE CENTERED ON PILE CAP.
   B. MINIMUM TWO PILES PER LOCATION AS SHOWN.
   C. MINIMUM GROUT STRENGTH = 6,000 PSI
   D. MINIMUM DIAMETER = 4 IN
   E. MINIMUM REINFORCEMENT: (1) #11 x CONT.
   F. SEE PLAN FOR LOADING.
   G. SEE GEN NOTES AND GEOTECHNICAL REPORT FOR MORE INFORMATION.
5. PIT SLABS SHALL BE CONSTRUCTED OVER NATIVE SOIL. REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND EXISITNG BUILDING ELEMENTS ON DESIGN PLANS AND NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND DIMENSIONS.
8. FOUNDATION NOMENCLATURE:
   A. FOUNDATIONS NOTED ON PLANS:



NOTE NO.	NOTE DESCRIPTION
S5	(N) EXTERIOR DOOR JAMS AND HEADER

KEYPLAN

A	B	C	D

NORTH

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GRAND JUNCTION MATERIALS RECOVERY FACILITY RENOVATION

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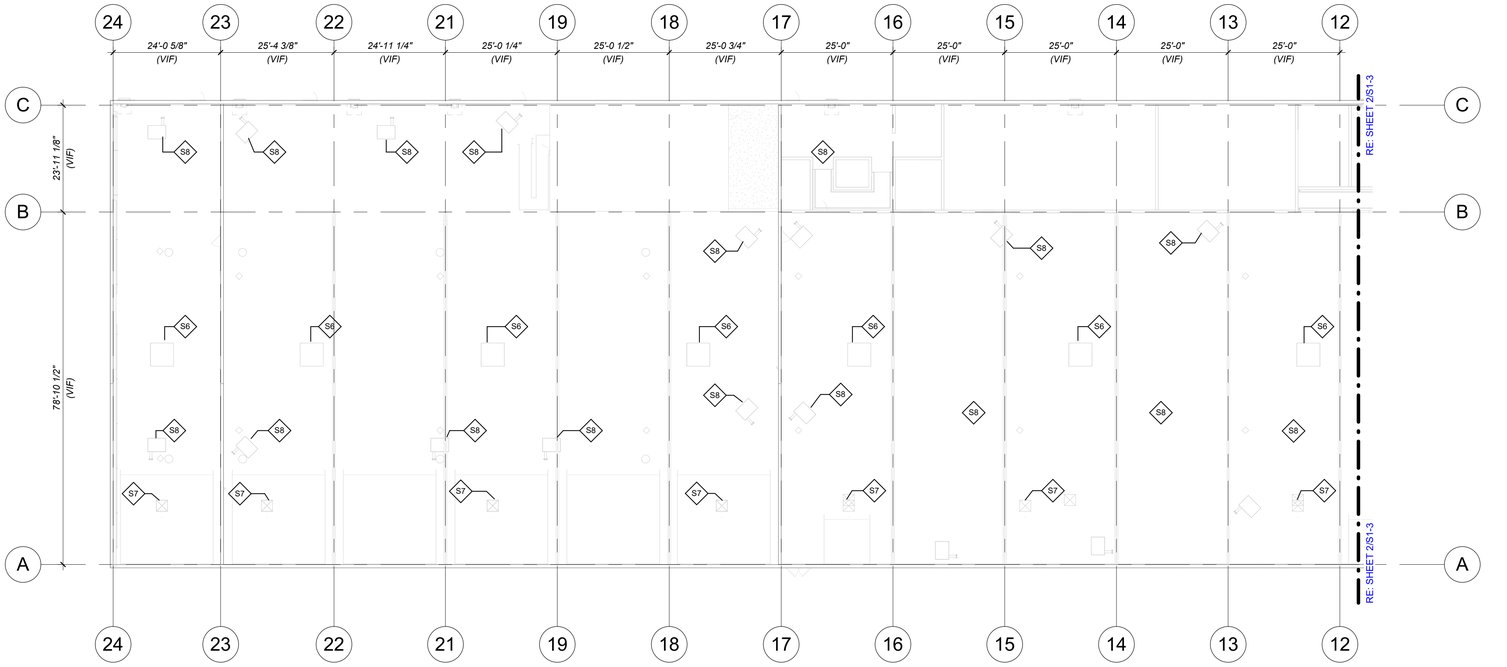
FOUNDATION PLAN - AREA D

BP1 - FOR CONSTRUCTION

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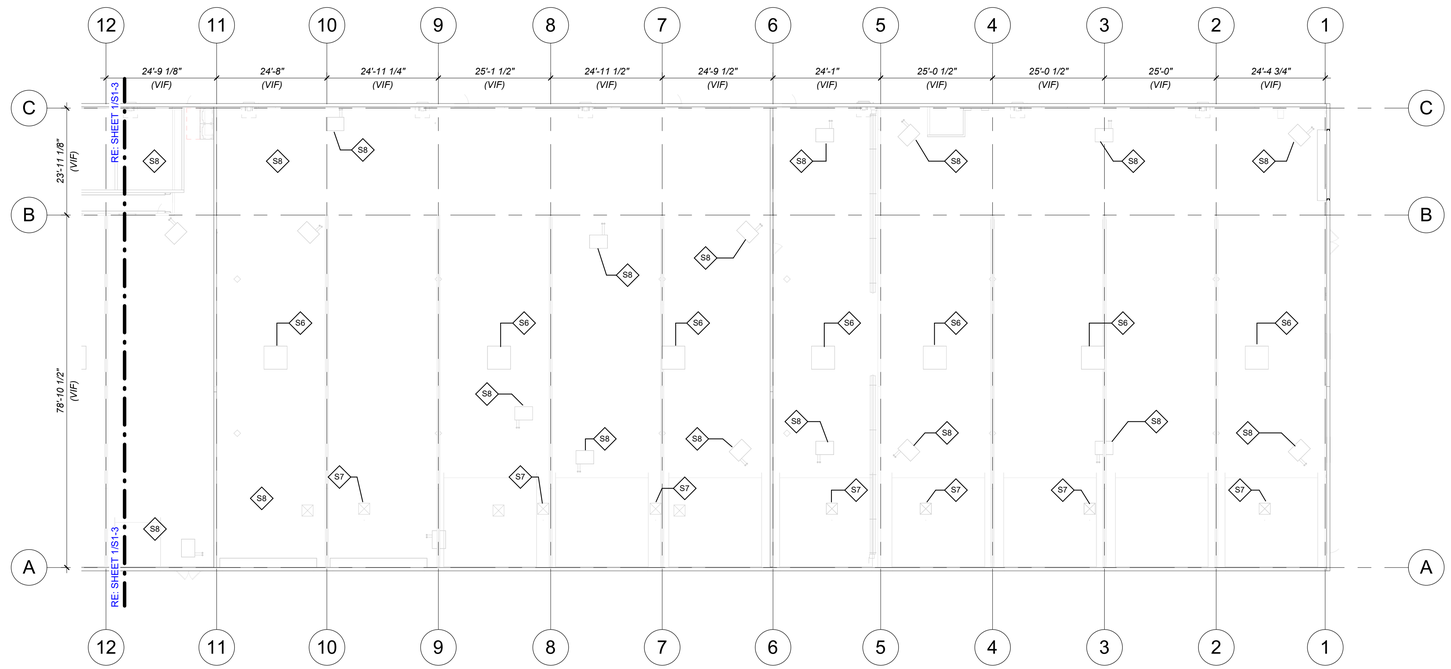
DATE: 2/2/2026
PROJECT #: 250182
SHEET #:
S1-1D

Project Team:
Print Date: 2/2/2026 5:53:24 PM



1 / S1-3 ROOF PLAN - NORTH

1/16" = 1'-0"

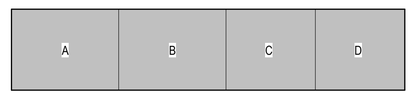


2 / S1-3 ROOF PLAN - SOUTH

1/16" = 1'-0"

NOTE NO.	NOTE DESCRIPTION
S6	(N) EVAP COOLER ON ROOF, RE: MEP (622 LBS)
S7	(N) MEP PENETRATION, RE: 34/S5-1
S8	(N) UNIT HEATER BELOW ROOF, RE: MEP (245 LBS)

KEYPLAN



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OVERALL ROOF PLAN

BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026

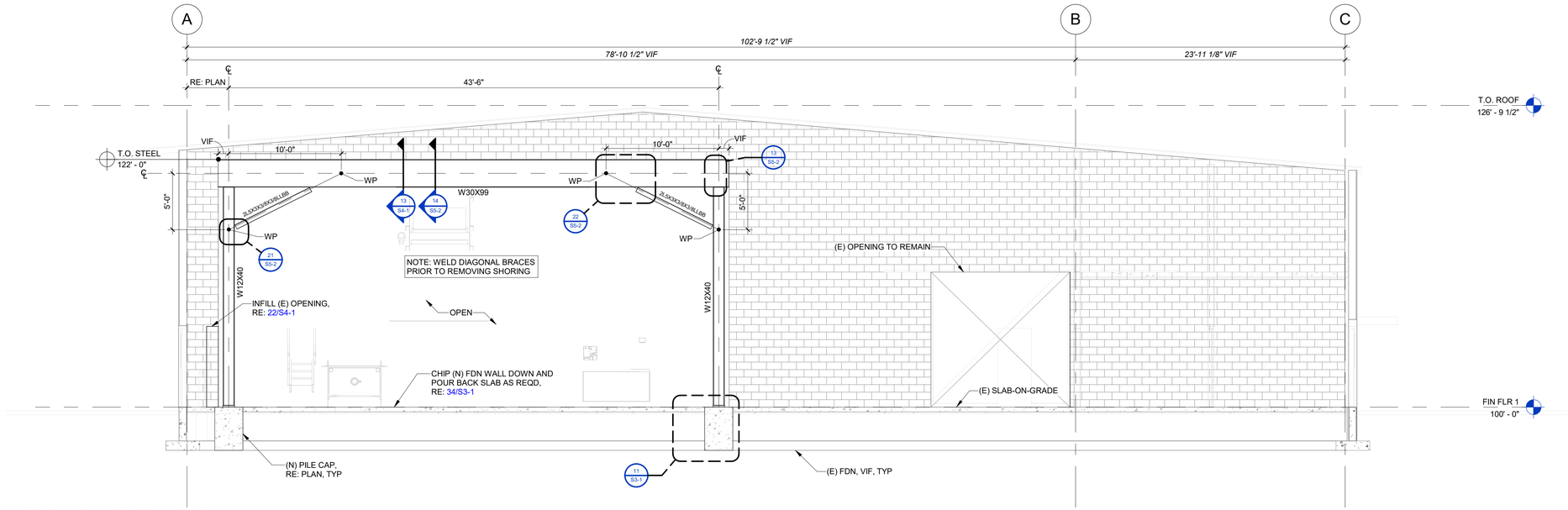
PROJECT #: 250182

SHEET #:

S1-3

Project Team:

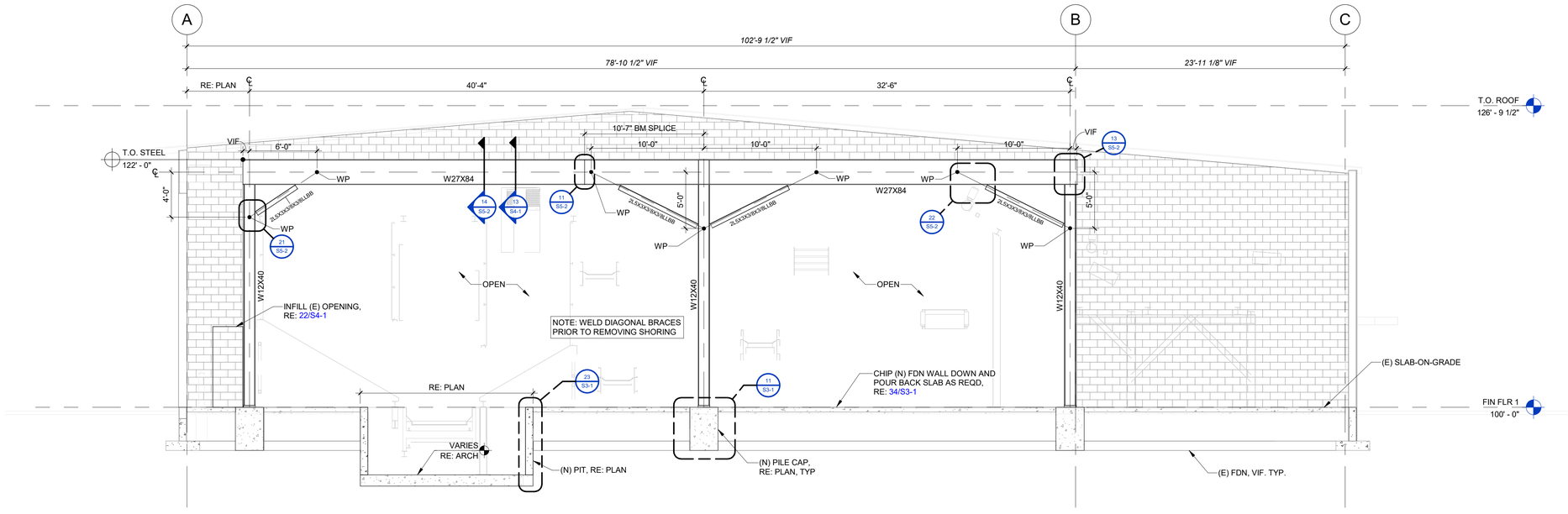
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1 S2-1

GRID 17 - ELEVATION

3/16" = 1'-0"



2 S2-1

GRID 11 - ELEVATION

3/16" = 1'-0"

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WALL ELEVATIONS

BP1 - FOR CONSTRUCTION

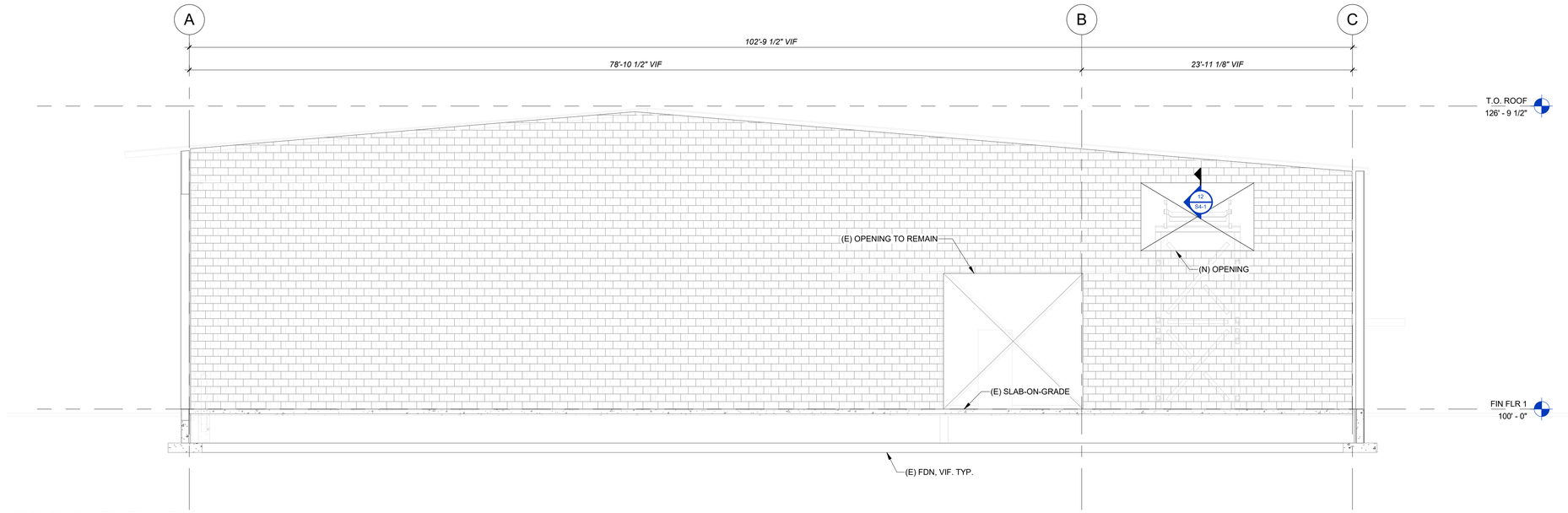
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DATE: 2/2/2026

PROJECT #: 250182

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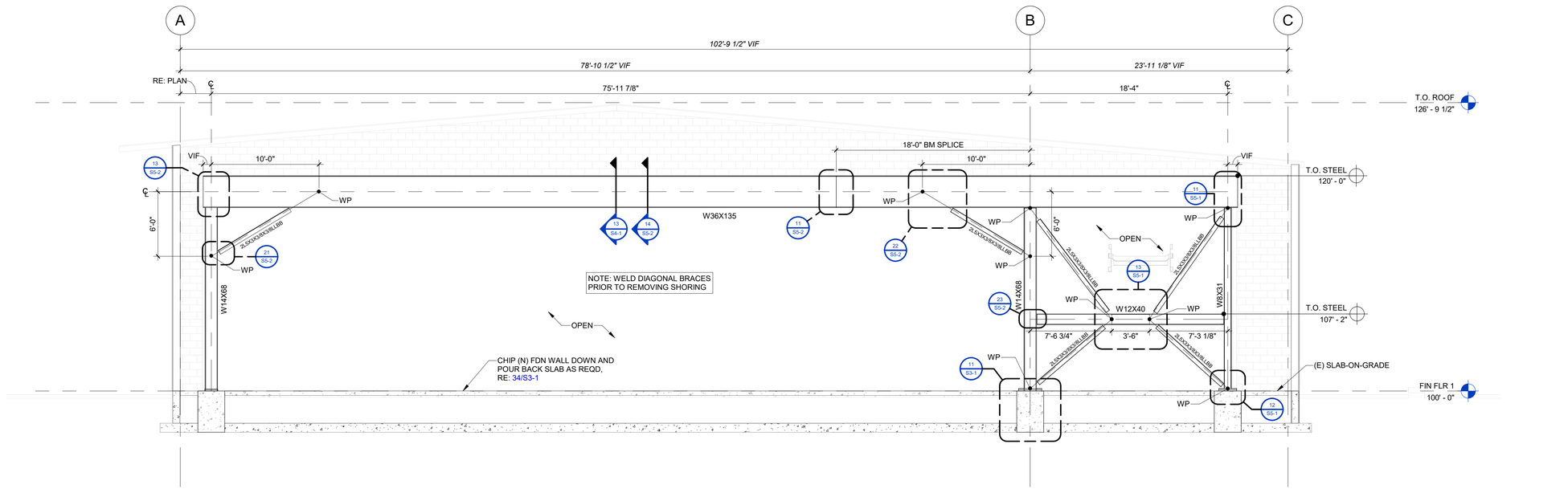
S2-1



1 S2-2

GRID 6 - ELEVATION

3/16" = 1'-0"



2 S2-2

GRID 5 - ELEVATION

3/16" = 1'-0"

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WALL ELEVATIONS

BP1 - FOR CONSTRUCTION

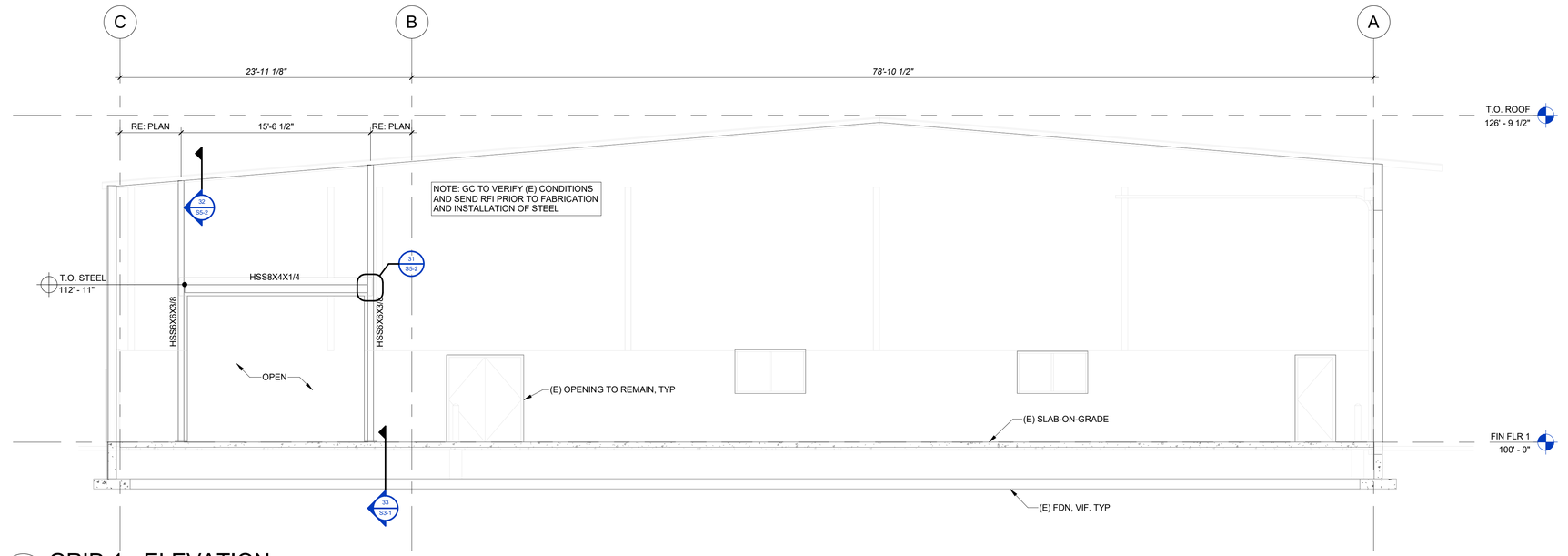
REV. DESC. DATE:

DATE: 2/2/2026

PROJECT #: 250182

SHEET #:

S2-2



1 S2-3 GRID 1 - ELEVATION

3/16" = 1'-0"

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WALL ELEVATIONS

BP1 - FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

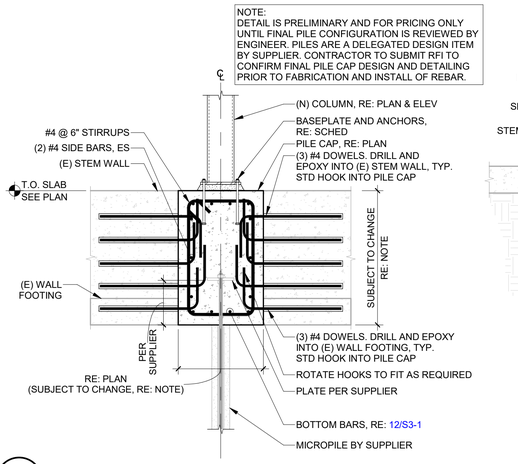
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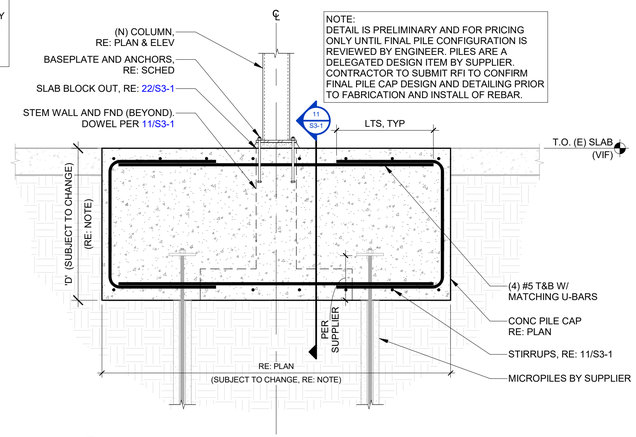
S2-3

Project Team:

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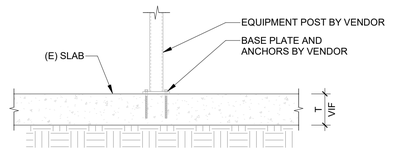


11 S2-1 S3-1 TYPICAL MICROPILE DETAIL
NOT TO SCALE



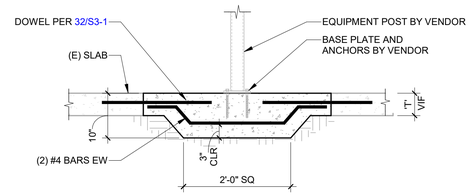
12 S3-1 PILE CAP SECTION - 2 PILES
NOT TO SCALE

NOTE:
1. REFER TO EQUIPMENT DRAWINGS FOR LOCATIONS. DETAIL IS BASED ON ASSUMED 6" x 6" BASE PLATE FOR LOADS LESS THAN 15 KIP. CONTRACTOR TO SUBMIT RFI TO CONFIRM FINAL EQUIPMENT SUPPORT DETAIL PRIOR TO INSTALLATION OF EQUIPMENT.
2. PER GEOTECHNICAL REPORT: PROVIDE MICROPILE FOUNDATION TO SUPPORT ALL VIBRATING EQUIPMENT. RE: DETAIL 35/S3-1. COORDINATE WITH GEOTECHNICAL ENGINEER AND EQUIPMENT SUPPLIER FOR LOCATIONS. COORDINATE FINAL DETAIL W/ EOR.

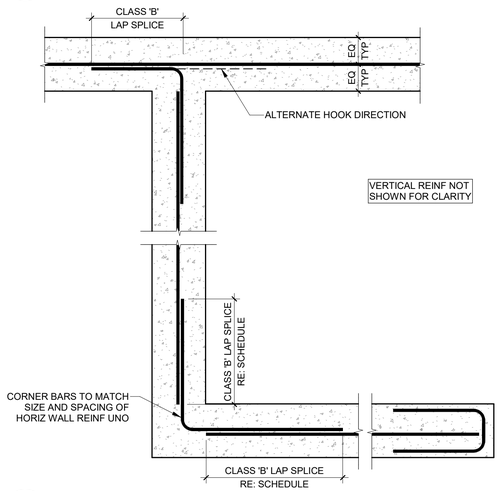


13 S3-1 TYP EQUIPMENT ANCHORAGE DETAIL (LOADS < 15 KIP)
NOT TO SCALE

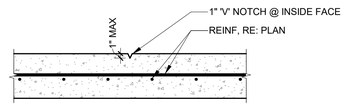
NOTE:
1. REFER TO EQUIPMENT DRAWINGS FOR LOCATIONS. DETAIL IS BASED ON ASSUMED 6" x 6" BASE PLATE FOR LOADS LESS THAN 15 KIP. CONTRACTOR TO SUBMIT RFI TO CONFIRM FINAL EQUIPMENT SUPPORT DETAIL PRIOR TO INSTALLATION OF EQUIPMENT.
2. PER GEOTECHNICAL REPORT: PROVIDE MICROPILE FOUNDATION TO SUPPORT ALL VIBRATING EQUIPMENT. RE: DETAIL 35/S3-1. COORDINATE WITH GEOTECHNICAL ENGINEER AND EQUIPMENT SUPPLIER FOR LOCATIONS. COORDINATE FINAL DETAIL W/ EOR.



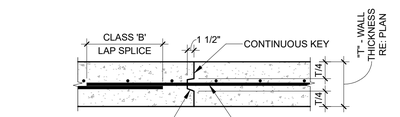
14 S3-1 TYP EQUIPMENT ANCHORAGE DETAIL (LOADS > 15 KIP)
NOT TO SCALE



21 S3-1 TYPICAL CONCRETE WALL REINFORCEMENT PLAN DETAIL
NOT TO SCALE



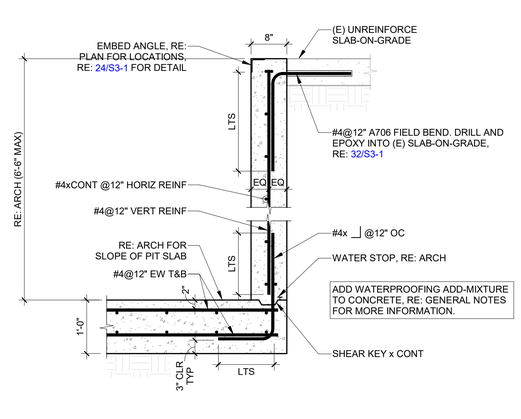
CONTRACTION JOINT



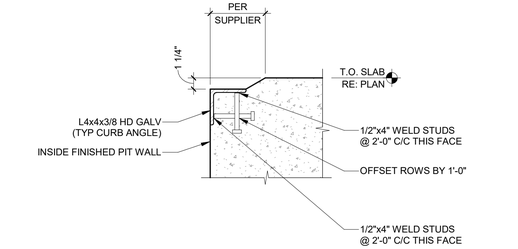
CONSTRUCTION JOINT

NOTE:
1. PROVIDE TOOLED JOINT OR SAW CUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING, OR TEARING (BUT NO MORE THAN 12 HOURS AFTER CASTING).
2. SEE ARCH FOR JOINT SPACING.
3. SEE GENERAL NOTES FOR MAXIMUM JOINT SPACING.

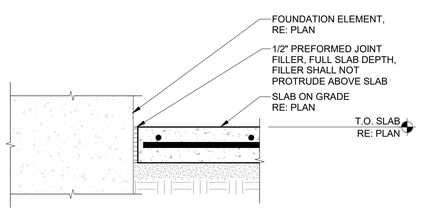
22 S3-1 TYPICAL CONCRETE WALL JOINT DETAILS
NOT TO SCALE



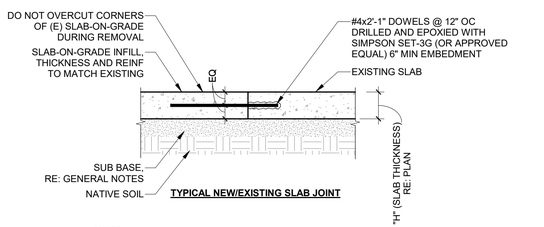
23 S1-1A S3-1 RECESSED PIT WALL DETAIL
NOT TO SCALE



24 S3-1 EMBED ANGLE AT RECESSED PIT CURB
NOT TO SCALE



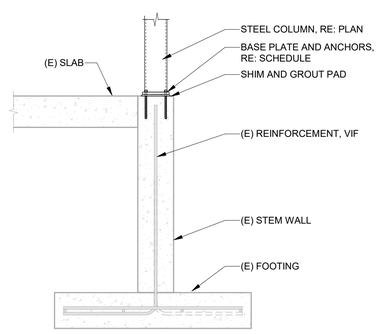
31 S3-1 TYPICAL SOG ISOLATION JOINT
NOT TO SCALE



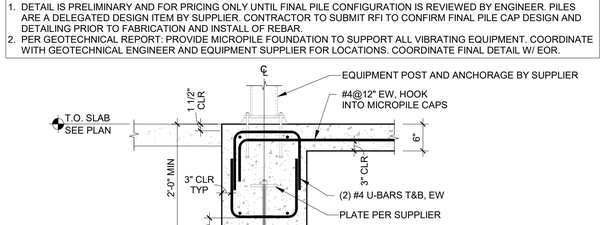
TYPICAL CONTROL JOINT

NOTE:
1. PROTECT OPEN SLAB EXCAVATIONS SUCH THAT SOIL MOISTURE CONTENT IS MAINTAINED UNTIL NEW INFILL SLAB IS PLACED.

32 S3-1 TYPICAL SOG JOINT DETAIL
NOT TO SCALE



33 S2-3 S3-1 (N) CONC EDGE @ RECESSED PIT CURB
NOT TO SCALE



34 S3-1 TYPICAL SLAB INFILL OVER STEM WALL
NOT TO SCALE

NOTE:
1. DETAIL IS PRELIMINARY AND FOR PRICING ONLY UNTIL FINAL PILE CONFIGURATION IS REVIEWED BY ENGINEER. PILES ARE A DELEGATED DESIGN ITEM BY SUPPLIER. CONTRACTOR TO SUBMIT RFI TO CONFIRM FINAL PILE CAP DESIGN AND DETAILING PRIOR TO FABRICATION AND INSTALL OF REBAR.
2. PER GEOTECHNICAL REPORT: PROVIDE MICROPILE FOUNDATION TO SUPPORT ALL VIBRATING EQUIPMENT. COORDINATE WITH GEOTECHNICAL ENGINEER AND EQUIPMENT SUPPLIER FOR LOCATIONS. COORDINATE FINAL DETAIL W/ EOR.

35 S3-1 TYPICAL MICROPILE DETAIL
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FOUNDATION DETAILS

BP1 - FOR CONSTRUCTION

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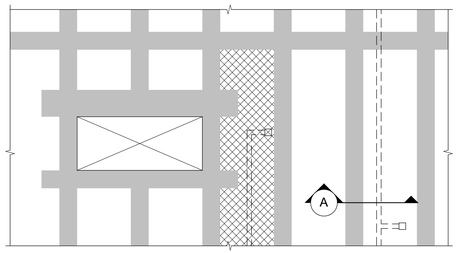
DATE: 2/2/2026

PROJECT #: 250182

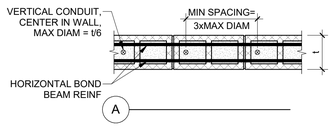
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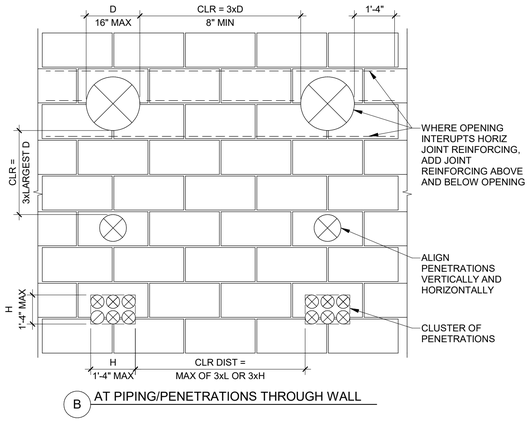
S3-1

Project Team:
Print Date: 2/2/2026 5:53:33 PM



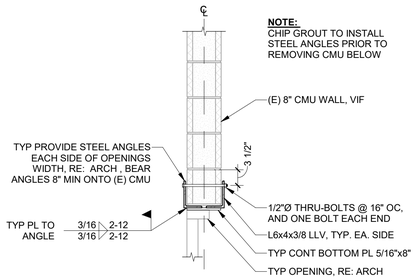
NOTE:
1. JUNCTION BOXES, PIPING, VERTICAL/HORIZONTAL CONDUIT, FIXTURES, ETC. SHALL NOT BE LOCATED IN:
   A. REINFORCED CELLS
   B. LINTELS (NEITHER REINFORCED OR UNREINFORCED)
   C. JAMBS
   D. STRUCTURAL PILASTERS, UNO
2. JUNCTION BOXES, PIPING, VERTICAL/HORIZONTAL CONDUIT, FIXTURES, ETC. MAY BE LOCATED IN:
   A. GROUTED UNREINFORCED CELLS
   B. UNREINFORCED, UNGROUTED CELLS
3. HORIZONTAL PIPING/CONDUIT SHALL NOT CROSS VERTICALLY REINFORCED CELLS
4. VERTICAL PIPING/CONDUIT MAY CROSS REINFORCED BOND BEAMS, SEE DETAIL A FOR LIMITATIONS
5. WALL PENETRATIONS SHALL MEET THE REQUIREMENTS OF DETAIL B
6. ▭ INDICATES REINFORCED AND GROUTED CELLS
7. ▭ INDICATES GROUTED CELLS WITHOUT REINFORCING
8. ALUMINUM SHALL NOT BE EMBEDDED IN MASONRY



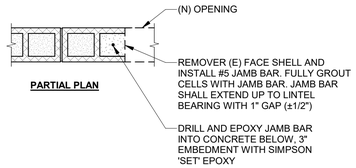


B AT PIPING/PENETRATIONS THROUGH WALL

21 S4-1 TYPICAL MASONRY PENETRATIONS
NOT TO SCALE

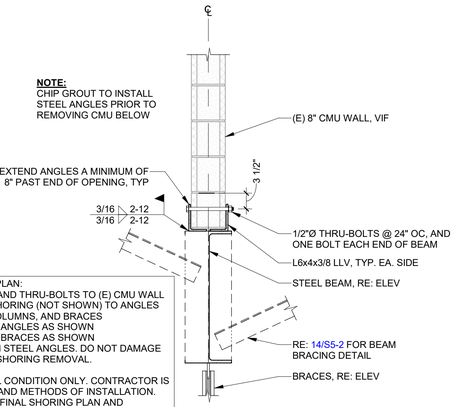


SECTION THROUGH HEAD OF OPENING



PARTIAL PLAN

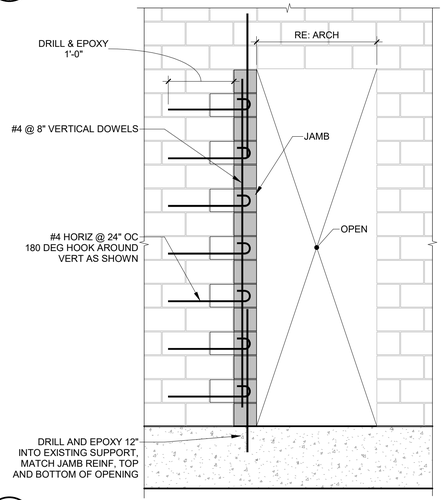
12 S2-2 S4-1 (N) OPENING IN (E) CMU WALL - 2L LINTEL
NOT TO SCALE



RECOMMENDED SHORING PLAN:
1. INSTALL STEEL ANGLES AND THRU-BOLTS TO (E) CMU WALL
2. ATTACH CONTINUOUS SHORING (NOT SHOWN) TO ANGLES
3. INSTALL STEEL BEAM, COLUMNS, AND BRACES
4. ATTACH STEEL BEAM TO ANGLES AS SHOWN
5. ATTACH STEEL BEAM TO BRACES AS SHOWN
6. REMOVE SHORING FROM STEEL ANGLES. DO NOT DAMAGE STEEL ANGLES DURING SHORING REMOVAL.

NOTE: DETAIL SHOWS FINAL CONDITION ONLY. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF INSTALLATION. CONTRACTOR TO PROVIDE FINAL SHORING PLAN AND CALCULATIONS TO ENGINEER PRIOR TO BEGINNING WORK.

13 S2-1 S4-1 (N) OPENING IN (E) CMU WALL - WF LINTEL
NOT TO SCALE



22 S4-1 TYP PARTIAL DOOR INFILL
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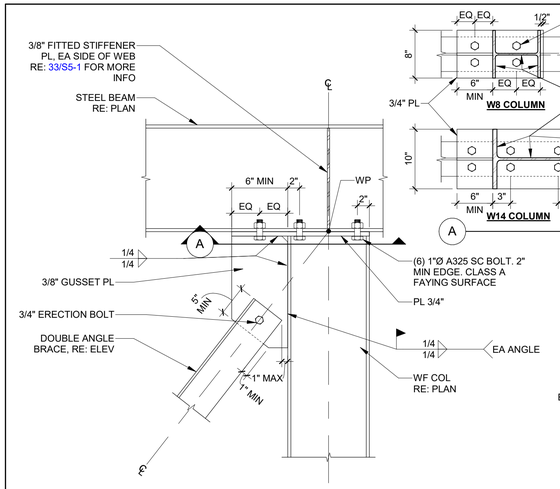
MASONRY DETAILS

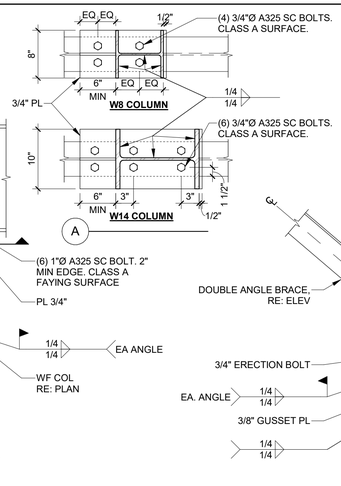
BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

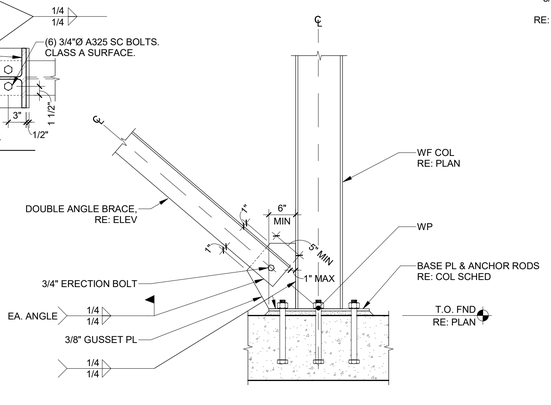
DATE: 2/2/2026
PROJECT #: 250182
SHEET #:
S4-1

Project Team:
Print Date: 2/2/2026 5:53:34 PM

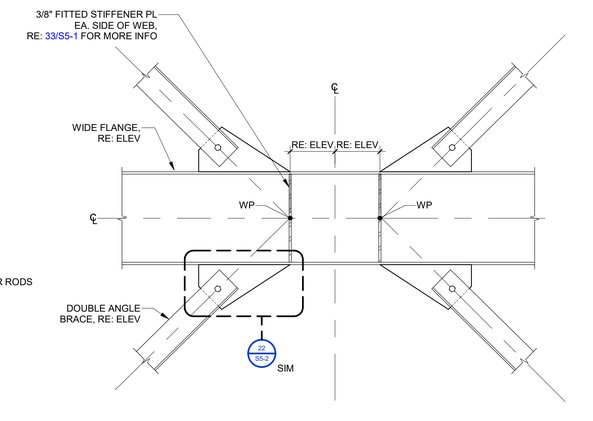




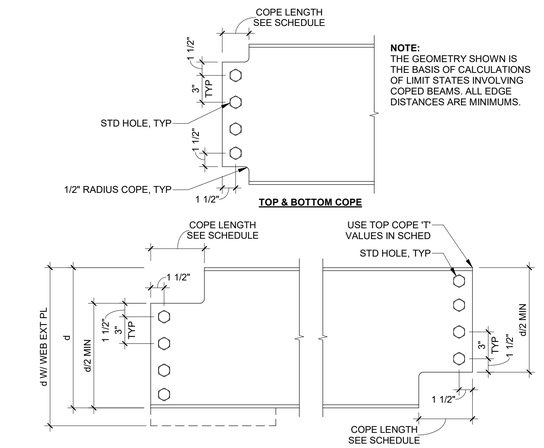
11 S2-2 S5-1 TYPICAL BRACE FRAME TOP CONNECTION
NOT TO SCALE



12 S2-2 S5-1 TYPICAL BRACE FRAME BASE CONNECTION
NOT TO SCALE

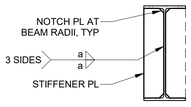


13 S2-2 S5-1 CHEVRON BRACE AT WIDE FLANGE
NOT TO SCALE

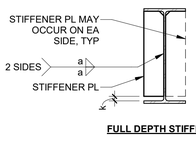


NOTE:
THE GEOMETRY SHOWN IS THE BASIS OF CALCULATIONS OF LIMIT STATES INVOLVING COPED BEAMS. ALL EDGE DISTANCES ARE MINIMUMS.

23 S5-1 TYPICAL BEAM COPE GEOMETRY
NOT TO SCALE



FITTED STIFFENER

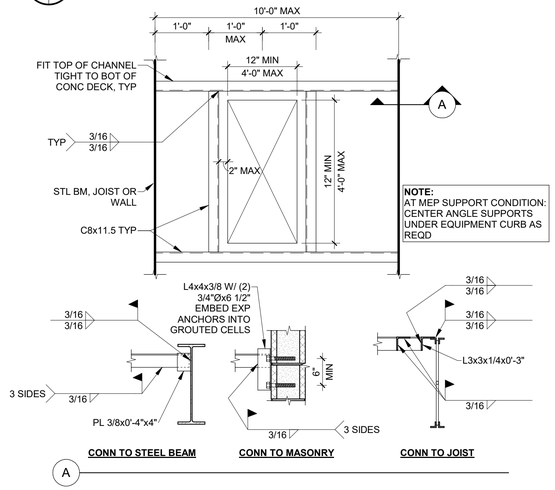


FULL DEPTH STIFFENER

PLATE WELD TABLE	
STIFFENER PL THICKNESS	WELD SIZE a (UNO)
3/16"	3/16"
1/4"	3/16"
5/16"	1/4"
3/8"	1/4"
1/2"	5/16"
5/8"	7/16"
3/4"	1/2"
1"	5/8"
1 1/4"	7/8"

NOTE:
1. ACTUAL STIFFENER GEOMETRY VARIES, SEE DETAILS
2. STIFFENER SURFACES THAT CONTACT BEAM FLANGES SHALL BE FINISHED FOR BEARING

33 S5-1 TYPICAL WIDE FLANGE BEAM STIFFENER
NOT TO SCALE



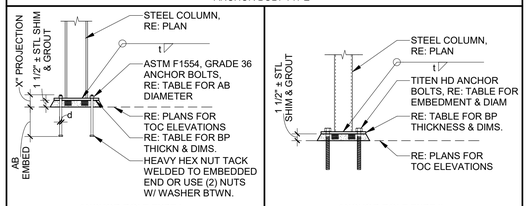
NOTE:
AT MEP SUPPORT CONDITION: CENTER ANGLE SUPPORTS UNDER EQUIPMENT CURB AS REQD

34 S5-1 TYP METAL DECK OPENING
NOT TO SCALE

BASE PLATE SCHEDULE

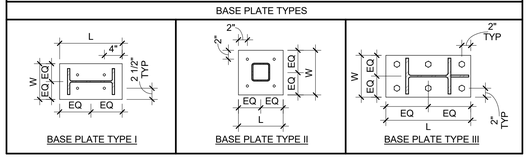
MARK	BP TYPE	DIM 'L'	DIM 'W'	THICK	WELD TO PLATE 't'	AB DIAMETER 'd'	AB EMBED	AB TYPE
BP-1	I	1' - 0 1/2"	0' - 9"	0' - 0 3/4"	1/4"	1"Ø	1'-0"	I
BP-2	I	1' - 2 1/2"	0' - 10"	0' - 0 3/4"	1/4"	1"Ø	1'-0"	I
BP-3	III	2' - 2"	0' - 10"	0' - 1 1/4"	1/4"	1"Ø	1'-0"	I
BP-4	III	1' - 8"	0' - 10"	0' - 1 1/4"	1/4"	1"Ø	1'-0"	I
BP-5	II	1' - 0"	0' - 6"	0' - 0 1/2"	1/4"	3/4"Ø	0'-6"	II

ANCHOR BOLT TYPE

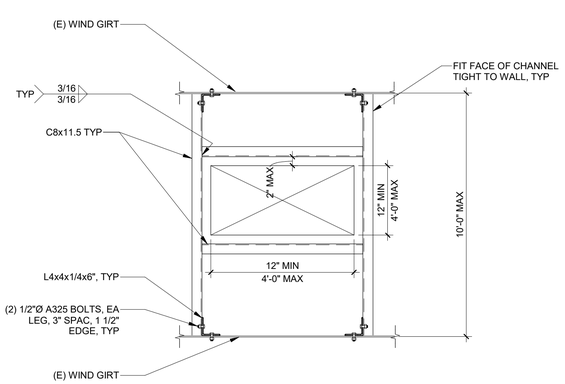


1. HOLE SIZE TO BE 1/16" LARGER THAN ANCHOR BOLT DIAMETER.
2. USE OF SQUARE PLATE WASHERS PER AISC TABLE 14-2 IS ACCEPTABLE FOR BP TYPE BASES ONLY.
3. LEVELING NUTS MAY BE PROVIDED ON ANCHORS TOP OF CONCRETE AND BOTTOM OF BASE PLATE IN LIEU OF STEEL SHIMS.

BASE PLATE TYPES



14 S5-1 TYPICAL BASE PLATE SCHEDULE
NOT TO SCALE



31 S5-1 OPENING IN (E) EXTERIOR WALL
NOT TO SCALE

BG+ co.
Architecture
Interior Design
Project Management
622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office
BLYTHE GROUP + co.

HCL ENGINEERS•SURVEYORS•ARCHITECTS
HCL Engineering & Surveying, LLC
622 Rood Avenue, Unit B
Grand Junction, CO 81501
970-549-1940
HCLengineering.com

GRAND JUNCTION MATERIALS RECOVERY FACILITY RENOVATION

365 32 RD, GRAND JUNCTION, CO 81520

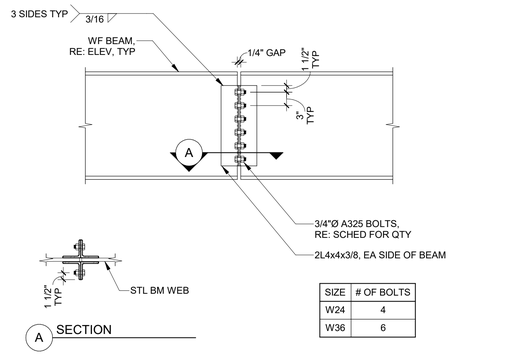
STEEL DETAILS

BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

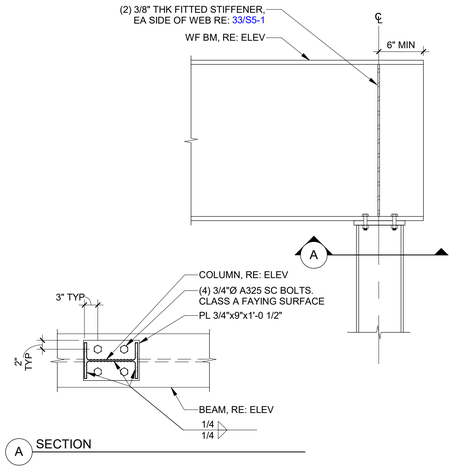
DATE: 2/2/2026
PROJECT #: 250182
SHEET #:
S5-1

Project Team:
Print Date: 2/2/2026 5:53:35 PM

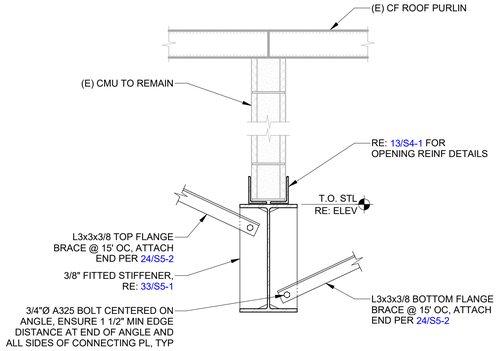


SIZE	# OF BOLTS
W24	4
W36	6

11 S2-1 S5-2 BEAM SPLICE
NOT TO SCALE



13 S2-1 S5-2 BEAM OVER WF COLUMN DETAIL
NOT TO SCALE

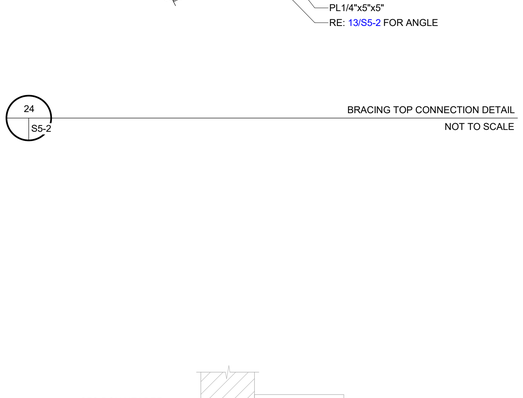


14 S2-1 S5-2 WF BRACING DETAIL
NOT TO SCALE

21 S2-1 S5-2 KNEE BRACE AT COLUMN DETAIL
NOT TO SCALE

22 S2-1 S5-2 KNEE BRACE AT BEAM DETAIL
NOT TO SCALE

23 S2-2 S5-2 BEAM TO COLUMN DETAIL
NOT TO SCALE



24 S5-2 BRACING TOP CONNECTION DETAIL
NOT TO SCALE

31 S2-3 S5-2 TYPICAL HSS TO HSS BOLTED CONNECTION
NOT TO SCALE

32 S2-3 S5-2 HSS COLUMN TOP CONNECTION
NOT TO SCALE

33 S5-2 (N) COILING DOOR HEADER CONNECTION
NOT TO SCALE

34 S5-2 (N) COILING DOOR HEADER DETAIL
NOT TO SCALE

BG+ co.
Architecture
Interior Design
Project Management
622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office
BLYTHE GROUP + co.

HCL ENGINEERS•SURVEYORS•ARCHITECTS
HCL Engineering & Surveying, LLC
622 Rood Avenue, Unit B
Grand Junction, CO 81501
970-549-1940
HCLengineering.com

GRAND JUNCTION MATERIALS
RECOVERY FACILITY
RENOVATION

365 32 RD, GRAND JUNCTION,
CO 81520

STEEL DETAILS

BP1 - FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/2/2026
PROJECT #: 250182
SHEET #:
S5-2

Project Team:
Print Date: 2/2/2026 5:53:37 PM

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	25-426 PHASE I GJ MRF
Location:	Grand Junction, Colorado
Climate Zone:	5b
Project Type:	Alteration

Construction Site:
365 32 ROAD
GRAND JUNCTION, Colorado 81504

Owner/Agent:

Designer/Contractor:
Bighorn Consulting Engineers
386 Indian Road
Grand Junction, Colorado 81501

Mechanical Systems List

Quantity **System Type & Description**

35 GUH-1 (Unknown w/ PerimeterSystem):
Heating: 1 each - Unit Heater, Gas, Capacity = 175 kBtu/h
Proposed Efficiency = 91.00% Ec, Required Efficiency: 80.00 % Ec
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 2458 CFM, 0.3 motor nameplate hp, 1.00 fan energy index

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Garrett Bowling, P.E. - Mechanical Engineer	GB	1/22/2026
Name - Title	Signature	Date

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	25426 - GJ MRF BID PACK #1
Project Type:	Alteration

Construction Site:
365 32 RD
GRAND JUNCTION, Colorado 81520

Owner/Agent:

Designer/Contractor:
Bighorn Consulting Engineers
386 Indian Rd
Grand Junction, Colorado 81501
9702418709

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Common Space Types:Storage >=1000 sq.ft.	14231	0.38	5408
2-Manufacturing:Low Bay (< 25ft. Floor to Ceiling Height)	38197	0.86	32849
		Total Allowed Watts =	38257

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Common Space Types: Storage >=1000 sq.ft. (14231 sq.ft.)				
LED: HB1: LED Other Fixture Unit 125W:	1	28	193	5412
Manufacturing: Low Bay (< 25ft. Floor to Ceiling Height) (38197 sq.ft.)				
LED: V1: PIT LIGHTING: LED Panel 44W:	1	32	42	1344
LED: HB1: LED Other Fixture Unit 125W:	1	76	193	14691
			Total Proposed Watts =	21447

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Shelby Leatherman - Electrical Engineer	*Shelby Leatherman*	2026/02/02
Name - Title	Signature	Date

2018 INTERNATIONAL ENERGY CODE (IECC) CHECKLIST FOR COMMERCIAL CONSTRUCTION

1. C403.1.1 MECHANICAL SYSTEM DESIGN CRITERIA: INTERIOR DESIGN CONDITIONS OF 72° F (MAX) HEATING, 75°F (MIN) COOLING. EXTERIOR DESIGN CONDITIONS: 95°F DB/61°F WB COOLING, 0 °F HEATING.
2. C403.5 ECONOMIZER : INDIVIDUAL FAN SYSTEMS WITH COOLING CAPACITY GREATER THAN 54,000 BTU/HR IN BUILDINGS HAVING OTHER THAN A GROUP R OCCUPANCY SHALL BE EQUIPPED WITH AIR ECONOMIZERS. SEE EQUIPMENT SCHEDULE FOR PARTICULAR UNIT DESIGNATION.
3. C403.4 HEATING AND COOLING SYSTEM CONTROLS: ALL SYSTEMS SHALL BE CONTROLLED AS REQUIRED BY THIS SECTION. SEE SEQUENCES OF OPERATION FOR SPECIFIC EQUIPMENT AND SYSTEM CONTROL.
4. C403.8 FANS AND FAN CONTROLS: FAN CONTROL AND ALLOWABLE HORSEPOWER SHALL BE IN ACCORDANCE WITH THIS SECTION. SEE COMCHECK REPORTS FOR SPECIFIC DETAILS OF FAN SYSTEMS AND HORSEPOWER LIMITATIONS.
5. C403.11.1 DUCT AND PLENUM INSULATION AND SEALING: SUPPLY AND RETURN DUCTS AND PLENUMS SHALL BE INSULATED WITH NOT LESS THAN R-6 INSULATION WHERE LOCATED IN UNCONDTIONED SPACES AND WHERE LOCATED OUTSIDE THE BUILDING WITH NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 1 TO 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5 TO 8. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY NOT LESS THAN R-8 INSULATION IN CLIMATE ZONES 1 TO 4 AND NOT LESS THAN R-12 INSULATION IN CLIMATE ZONES 5-8. SEE INSULATION DIAGRAM FOR SPECIFIC LOCATION REQUIREMENTS. CONSTRUCTION AND SEALING OF DUCTWORK SHALL BE IN ACCORDANCE WITH IMC 603 AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
6. C403.11.3 PIPING INSULATION: PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.11.3 OF THIS CODE.
7. C405.2 AND C405.3 LIGHTING CONTROLS AND INTERIOR LIGHTING POWER REQUIREMENTS: THE LIGHTING SYSTEMS SHALL BE IN COMPLIANCE WITH THESE SECTIONS OF THE CODE. SEE LIGHTING SHEETS FOR LUMINAIRE SCHEDULE AND CONTROL FUNCTIONS.
8. C403.1.1 CALCULATION OF HEATING AND COOLING LOADS: DESIGN LOADS SHALL BE DETERMINED IN ACCORDANCE WITH ASHRAE STANDARD 183 OR EQUIVALENT COMPUTATIONAL PROCEDURE USING THE DESIGN PARAMETERS IN CHAPTER 3. SEE OUTPUT CAPACITY REPORTS FOR SPECIFIC PROJECT INFORMATION.
9. C403.2.2 VENTILATION: VENTILATION, EITHER NATURAL OR MECHANICAL, SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 4 OF THE IMC. SEE VENTILATION CALCULATIONS FOR SPECIFIC PROJECT INFORMATION.
10. C101.5.1 COMPLIANCE: COMMERCIAL BUILDINGS SHALL MEET THE PROVISIONS OF IECC - COMMERCIAL PROVISIONS. SEE COMCHECK REPORTS FOR SPECIFIC PROJECT COMPLIANCE.

System Checksums

By BIGHORN CONSULTING ENG

HEATING & VENT — **Ventilation and Heating**

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 0 / 0
Outside Air: OADB/WB/HR: 0 / 0 / 0

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	0	0	0	0
Glass Solar	0	0	0	0
Glass/Door Cond	0	0	0	0
Wall Cond	0	0	0	0
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0.00	0.00	0.00	0.00
Infiltration	0		0	0
Sub Total ==>	0	0	0	0
Internal Loads				
Lights	0	0	0	0
People	0	0	0	0
Misc	0	0	0	0
Sub Total ==>	0	0	0	0
Ceiling Load	0	0	0	0
Ventilation Load	0	0	0	0
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	
Ov/Undr Sizing	0		0	0
Exhaust Heat		0	0	
Sup. Fan Heat			0	
Ret. Fan Heat		0	0	
Duct Heat Pkup		0	0	
Underflr Sup Ht Pkup			0	
Supply Air Leakage		0	0	
***Grand Total* ==>**	0	0	0	100.00

CLG SPACE PEAK

Mo/Hr: 0 / 0
OADB: 0

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	0	0
Glass Solar	0	0
Glass/Door Cond	0	0
Wall Cond	0	0
Partition/Door	0	0
Floor	0.00	0
Adjacent Floor	0.00	0.00
Infiltration	0	0
Sub Total ==>	0	0
Internal Loads		
Lights	0	0
People	0	0
Misc	0	0
Sub Total ==>	0	0
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing		
Exhaust Heat		
OA Preheat Diff.		
RA Preheat Diff.		
Additional Reheat		
Underflr Sup Ht Pkup		
Supply Air Leakage		
***Grand Total* ==>**	0	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 0

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-190,650	-190,650	7.27
Glass Solar	0	0	0.00
Glass/Door Cond	-273,463	-273,463	10.43
Wall Cond	-134,145	-134,145	5.12
Partition/Door	0	0	0.00
Floor	-46,200	-46,200	1.76
Adjacent Floor	0.00	0.00	0.00
Infiltration	-1,696,512	-1,696,512	64.70
Sub Total ==>	-2,340,970	-2,340,970	89.27
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-281,347	10.73
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
***Grand Total* ==>**	-2,340,970	-2,622,317	100.00

TEMPERATURES

	Cooling	Heating
SADB	0.0	125.0
Ra Plenum	0.0	70.0
Return	0.0	70.0
Ret/OA	0.0	63.4
Fn MtrTD	0.0	0.0
Fn BltTD	0.0	0.0
Fn Frict	0.0	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	0	46,882
Terminal	0	46,882
Main Fan	0	46,882
Sec Fan	0	0
Nom Vent	0	4,427
AHU Vent	0	4,427
Infil	0	26,695
MinStop/Rh	0	0
Return	0	73,577
Exhaust	0	31,122
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	0.0	9.4
cfm/ft²	0.00	0.82
cfm/ton	0.00	
ft²/ton	0.00	
Btu/hr-ft²	0.00	-45.84
No. People	99	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	0.0	0.0								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	57,204		
Part	0		
Int Door	1		
ExFlr	1,320		
Roof	57,204	0	0
Wall	36,462	6,794	19
Ext Door	498	0	0

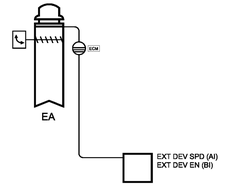
HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-2,622.3	46,882	63.4	125.0
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-2,622.3			

Project Name:
Dataset Name: 25-426 TRACE.TRC

TRACE® 700 v6.3.5 calculated at 02:42 PM on 01/08/2026
Alternative - 1 System Checksums Report Page 1 of 1

Flow Diagram: EXHAUST FANS EXTERNAL DEVICE



Sequence of Operations: ECM EXHAUST FANS EXTERNAL DEVICE

Operation:

The exhaust fan shall be enabled to energize from an external device. The damper end switch shall prove fully open prior to fan start. When the exhaust fan is disabled, the exhaust air damper shall close.

AIR VENTILATION CALCULATION BASED ON IMC, TABLE 403.3

PROJECT: 25-426 GRAND JUNCTION, MRF **DATE:1/22/26**

ROOM NAME	ROOM AREA	OCCUPANT DENSITY PER 1000FT	NUMBER OF PEOPLE	CFM PER PERSON	EXHAUST CFM/FIXTURE	NUMBER OF FIXTURES	EXHAUST CFM/FT	OA CFM/FT	COOLING DISTRIBUTION EFFECTIVENESS FACTOR (EZ)	HEATING DISTRIBUTION EFFECTIVENESS FACTOR (EZ)	OUTSIDE AIR COOLING CORRECTED ZONE DISTBUTION	OUTSIDE AIR HEATING CORRECTED ZONE DISTBUTION	TOTAL EXHAUST CFM
WAREHOUSE	57132	0.005	285.66	10	0	0	0	0.06	1	0.8	6285	7856	0
	0	0	0	0	0	0	0	0	1	0.8	0	0	0
											TOTAL OUTSIDE AIR COOLING (CFM)	TOTAL OUTSIDE AIR HEATING (CFM)	TOTAL EXHAUST (CFM)
											6284.52	7855.65	0

Project Team:
Print Date: 2/3/2026 11:40:18 AM

BG+ co.

Architecture
Interior Design
Project Management

622 Rood Avenue
Grand Junction, CO 81501
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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

ENERGY COMPLIANCE

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

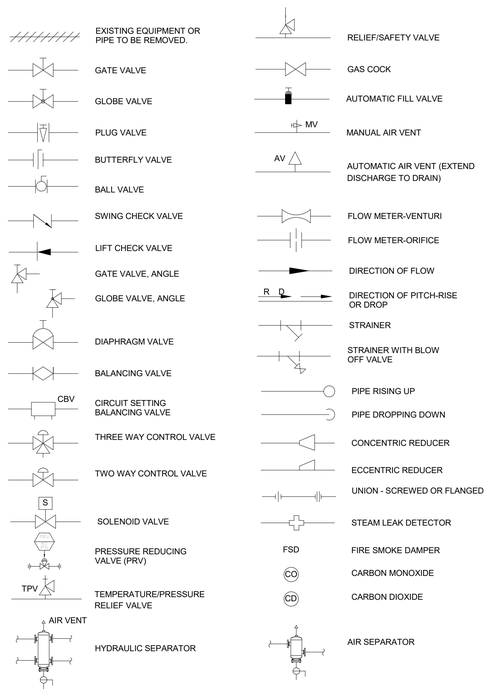
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PROJECT #: 25034

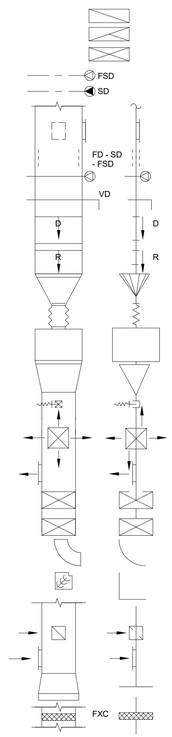
SHEET #:

GME1-0

MECHANICAL ELEMENTS / VALVING



HVAC & DUCTWORK SYMBOLS



MECHANICAL SHEET LIST

Sheet Number	Sheet Name
GME1-0	ENERGY COMPLIANCE
M0-1	COVER SHEET
MD1-1A	MECHANICAL - DEMO - AREA A
MD1-1B	MECHANICAL - DEMO - AREA B
MD1-1C	MECHNICAL - DEMO - AREA C
MD1-1D	MECHANICAL - DEMO - AREA D
M1-1	MECHANICAL - RENOVATED - AREA A
M1-2	MECHANICAL - RENOVATED - AREA B
M1-3	MECHANICAL - RENOVATED - AREA C
M1-4	MECHANICAL - RENOVATED - AREA D
M2-1	MECHANICAL DETAILS

LINE DESIGNATION SYMBOLS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CA	COMPRESSED AIR
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
D	DRAIN
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
G	NATURAL GAS
RH	REFRIGERANT HIGH PRESSURE VAPOR
R	REFRIGERANT LIQUID AND VAPOR LINE
RS	REFRIGERANT SUCTION / VAPOR
SMR	SNOWMELT RETURN
SMS	SNOWMELT SUPPLY
V	VENT PIPING

RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

ITEM	FURNISHED	SET	POWER WIRED	CONTROL WIRED
EQUIPMENT	23	23	26	--
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23(1)	26	26(2)	23
FUSED AND UNFUSED DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	26	26	26	--
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:
1. MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1)NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
2. IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER DIVISION 26.

ABBREVIATIONS:

44"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTERS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL OR DOOR
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO / VIDEO
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD
BD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTOR
BL	BOILER
BLDG	BUILDING
BLW	BELOW
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
C	CHILLER
CAFCI	COMBINATION ARC FAULT CIRCUIT INTERRUPTERS
CAP	CAPACITY
CB	CIRCUIT BREAKER
CBV	CIRCUIT BALANCING VALVE
CCT	CORRELATED COLOR TEMPERATURE
CKT	CIRCUIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CRI	COLOR RENDERING INDEX
CT	COOLING TOWER
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
CVB	CONSTANT VOLUME BOX
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR GRILLE/REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	EMERGENCY FUNCTION
ENT	ENTERING
EMT	ELECTRIC METALLIC TUBE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	END SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXPAN	EXPANSION
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FAN COIL UNIT
FC	FOOTCANDLE
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FD	FLOOR DRAIN
FIN	FINISHED
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET
FXC	FLEXIBLE CONNECTION
GND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GEC	GROUND ELECTRODE CONDUCTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRS/LB GRAINS PER POUND
H2O	WATER
HB	HOSE BIBB
HD	HEAD (SEE SCHEDULES)
HP	HEAT PUMP
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTR	HEATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCHES
INV	INVERT
JBOX	JUNCTION BOX
K	KELVIN
KW	KILOWATT
KVA	KILO VOLT - AMPS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LIN	LINEAR
LIQ	LIQUID
LM	LUMEN
LRA	LOCKED ROTOR AMPS
LV	LOUVER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
N	NEUTRAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT / SECURITY LIGHT - DO NOT SWITCH
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
OCP	OVER CURRENT PROTECTION
OD	OUTSIDE DIAMETER
OL	OVERLOAD
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PH	PHASE
POS	POSITIVE PRESSURE
POS	POINT OF SALES
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR GRILLE / REGISTER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR GRILLE / REGISTER
SC	SHORT CIRCUIT
SCA	SHORT CIRCUIT AVAILABLE
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SH	SENSIBLE HEAT
SH	SHOWER
SP	STATIC PRESSURE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SS	SAFETY SHOWER
STD	STANDARD
STL	STEEL
SYS	SYSTEM
TEMP	TEMPERATURE
TR	TRANSFER GRILLE / REGISTER
TR	TAMPER RESISTANT
TT	TEMPERATURE TRANSMITTER
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
TYP	TYPICAL
TX	TRANSFORMER
UC	UNDERCUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNOCC	UNOCCUPIED
UR	URINAL
V	VOLTS
VA	VOLT AMPERE
VA	VALVE
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VOLT	VOLTAGE
VTR	VENT THROUGH ROOF
W	WIDTH
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WC	WATER CLOSET
WG	WATER GAUGE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
WSR	WITHSTAND RATING
XFMR	TRANSFORMER

SUBSTITUTIONS:

A. SUBSTITUTIONS: SUBSTITUTION OF SPECIFIED EQUIPMENT WILL BE ALLOWED THROUGH A PRIOR APPROVAL PROCESS INITIATED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT INTENDED SUBSTITUTION AT LEAST FIVE DAYS PRIOR TO BID FOR APPROVAL FROM ENGINEER. SUBMITTAL SHALL INCLUDE CAPACITIES, DIMENSIONS AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT. SUBSTITUTION SHALL OCCUR AT NO COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF APPROVED SUBSTITUTION AND SHALL INCUR ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING STRUCTURAL MODIFICATIONS, SPACE LAYOUT AND REDESIGN COSTS. SEE ALSO DIVISION I GENERAL REQUIREMENTS.

EXAMINATION OF SITE, DRAWINGS, SPECIFICATIONS:

A. EXAMINE CAREFULLY THE SITE AND CONDITIONS OF THE SITE. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR TO INSTALL A COMPLETE WORKING SYSTEM WITHIN THE SITE CONDITIONS.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND 5 DAYS PRIOR TO BIDDING REPORT ANY ERRORS, OMISSIONS, INCONSISTENCIES, AND CONFLICTS TO THE ENGINEER TO BE REMEDIED IN AN ADDENDUM TO THE PROJECT PRIOR TO BID TIME.

C. DRAWINGS ARE DIAGRAMMATIC AND CATALOG NUMBERS GIVEN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CAPACITY OF THE EQUIPMENT MEETS THE DRAWING REQUIREMENTS AND SHALL NOT DIMENSION FROM THE MECHANICAL, PLUMBING, OR PIPING DRAWINGS.

D. THE LATEST ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODES SHALL BE USED AS REQUIRED. THIS WILL ALSO INCLUDE THE LATEST ADOPTED VERSIONS OF THE MECHANICAL, PLUMBING, AND ENERGY CONSERVATION CODES. ALL METHODS AND MATERIALS REQUIRED BY THESE CODES SHALL BE REQUIRED BY THESE SPECIFICATIONS UNLESS INDICATED OTHERWISE. OTHER APPLICABLE LOCAL CODES AND ORDINANCES SHALL BE AS REQUIRED AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE KNOWLEDGEABLE OF THESE REQUIREMENTS.

E. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL BEING INSTALLED, PRINTED COPIES OF THESE RECOMMENDATIONS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF THE ITEM WILL NOT BE ALLOWED TO PROCEED UNTIL THE RECOMMENDATIONS ARE RECEIVED. FAILURE TO FURNISH THESE RECOMMENDATIONS CAN BE CAUSE FOR REJECTION OF THE MATERIAL.

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COVER SHEET

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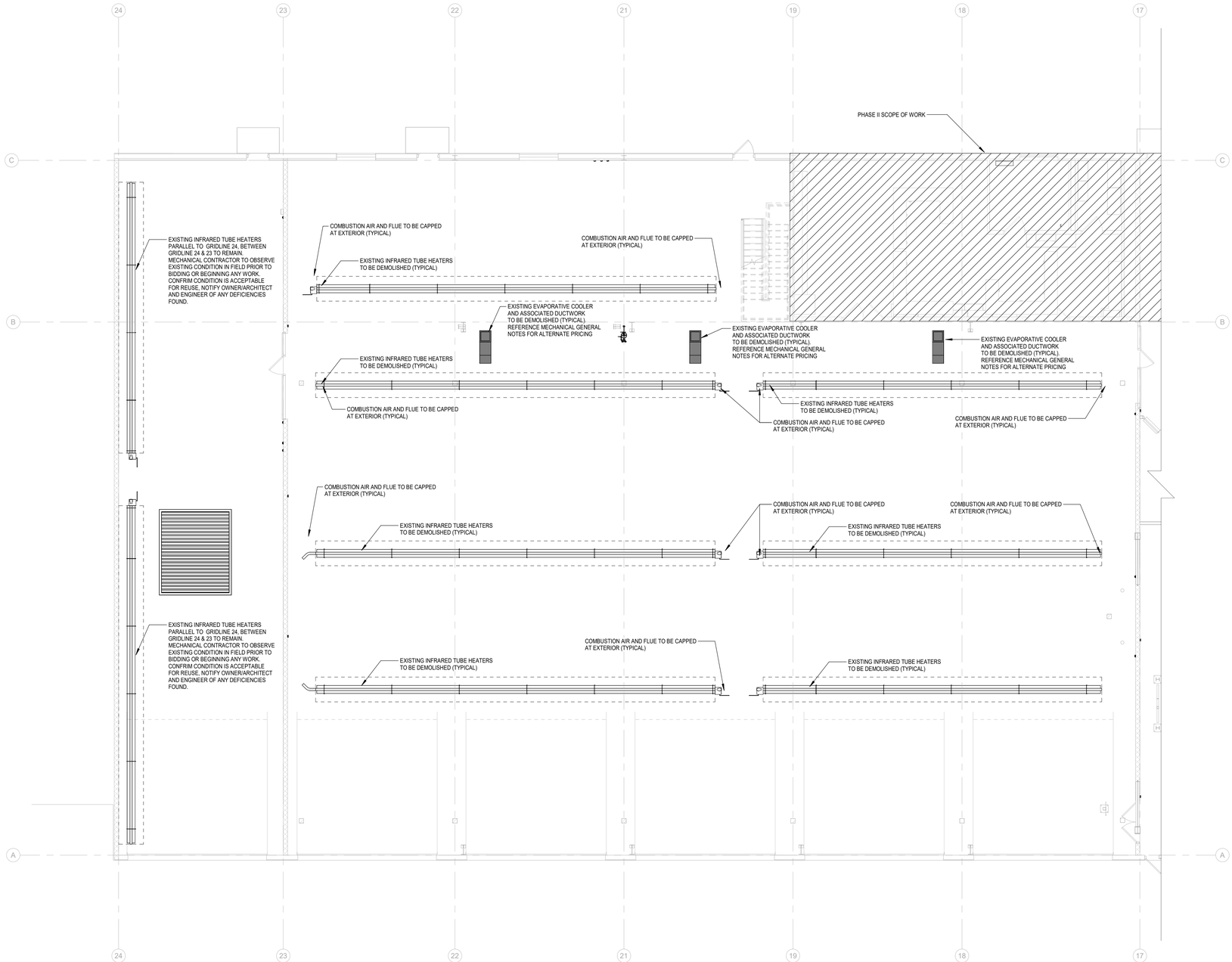
PROJECT #: 25034

SHEET #:

M0-1

Project Team:

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1 MD1-1A MECHANICAL - DEMO - AREA A
1/8" = 1'-0"
NORTH

MECHANICAL GENERAL NOTES:

1. DRAWING IS DIAGRAMMATIC IN NATURE. LOCATIONS AND SIZES MAY VARY DURING FIELD COORDINATION & INSTALLATION OF MECHANICAL, PLUMBING, & ELECTRICAL. DRAWINGS DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS; CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.

2. CONTRACTOR SHALL CLEAN AND SERVICE ALL EXISTING EQUIPMENT TO REMAIN. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING EQUIPMENT TO REMAIN FUNCTIONING PROPERLY PRIOR TO RE-LISING. CONTRACTOR TO NOTIFY ARCHITECT, OWNER AND ENGINEER IF ANY DEFICIENCIES FOUND AND IF EQUIPMENT CONDITION IS NOT ACCEPTABLE FOR REUSE PRIOR TO BIDDING OR BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL OBSERVE EXISTING CONDITIONS IN FIELD. EXISTING BUILDING SHALL BE PREPARED FOR FUTURE MECHANICAL SYSTEMS. REFERENCE MECHANICAL FLOOR PLANS FOR NEW WORK.SELECTIVELY DEMOLISH SYSTEMS AS NECESSARY FOR NEW MECHANICAL SYSTEMS TO BE INSTALLED AVOIDING CONFLICT WITH NEW INDUSTRIAL EQUIPMENT. CONTRACTOR TO ENSURE THAT FINAL MECHANICAL SYSTEM WILL OPERATE AS INTENDED ON PROVIDED DRAWINGS.

3. MECHANICAL CONTRACTOR SHALL FIELD LOCATE EXISTING EQUIPMENT PRIOR TO BIDDING OR BEGINNING ANY WORK. ALL EXISTING EQUIPMENT SERVING PHASE I, WAREHOUSE SPACES SUCH AS EVAPORATIVE COOLERS, INFRARED TUBE HEATERS, INLINE RECIRCULATION FILTER SYSTEMS ETC SHALL BE DEMOLISHED.

4.EXISTING COMPRESSED AIR SYSTEM (AIR COMPRESSOR, COMPRESSED AIR FILTERS/CONNECTORS COMPONENTS, ETC. AND ALL COMPRESSED AIR LINES WITHIN BUILDING) TO BE DEMOLISHED THROUGHOUT ENTIRE BUILDING. CONTRACTORS SHALL OBSERVE EXISTING CONDITIONS IN FIELD PRIOR TO BIDDING OR BEGINNING ANY WORK.

5. MECHANICAL CONTRACTOR SHALL PROVIDE ALTERNATE PRICING FOR EXISTING EVAPORATIVE COOLERS TO REMAIN IN LIEU OF PROVIDING NEW EVAPORATIVE COOLER SYSTEM. EXISITNG EVAPORATIVE COOLERS TO BE SERVICED AND REPAIRED AS NECESSARY FOR REUSE.(NEW DUCTWORK DROPS TO BE PROVIDED WITH PYRIMID TIGHT TO STRUCTURE).

KEYPLAN

A	B	C	D

NORTH

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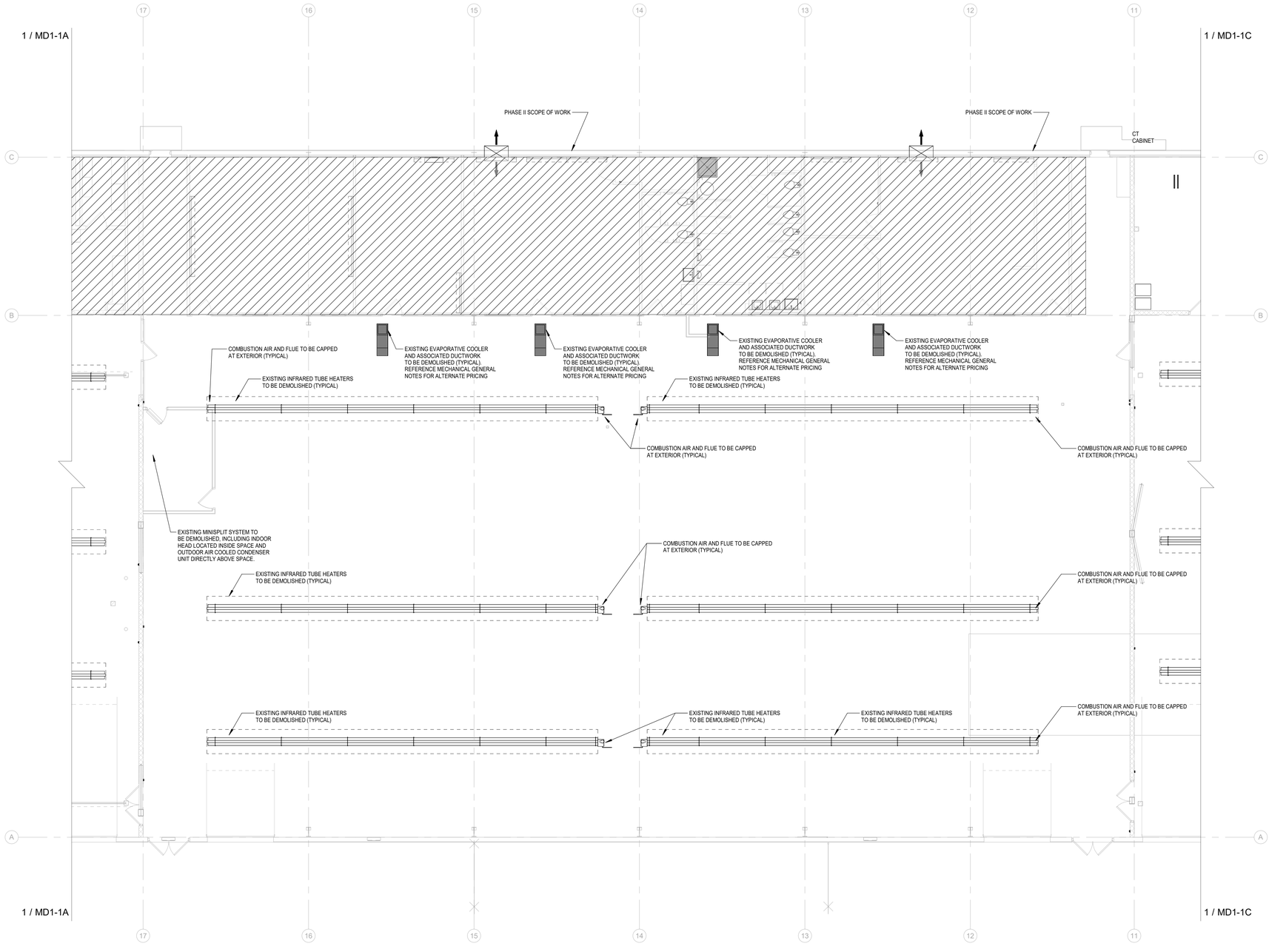
MECHANICAL - DEMO - AREA A

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026
PROJECT #: 25034
SHEET #:
MD1-1A

Project Team:
Print Date: 2/3/2026 11:40:18 AM



MECHANICAL - DEMO - AREA B

1 MD1-1B 1/8" = 1'-0"

NORTH

MECHANICAL GENERAL NOTES:

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2. CONTRACTOR SHALL CLEAN AND SERVICE ALL EXISTING EQUIPMENT TO REMAIN. CONTRACTOR SHALL VERIFY CONDITION OF EXISTING EQUIPMENT TO REMAIN FUNCTIONING PROPERLY PRIOR TO RE-USING. CONTRACTOR TO NOTIFY ARCHITECT, OWNER AND ENGINEER IF ANY DEFICIENCIES FOUND AND IF EQUIPMENT CONDITION IS NOT ACCEPTABLE FOR REUSE PRIOR TO BIDDING OR BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL OBSERVE EXISTING CONDITIONS IN FIELD. EXISTING BUILDING SHALL BE PREPARED FOR FUTURE MECHANICAL SYSTEMS. REFERENCE MECHANICAL FLOOR PLANS FOR NEW WORK. SELECTIVELY DEMOLISH SYSTEMS AS NECESSARY FOR NEW MECHANICAL SYSTEMS TO BE INSTALLED AVOIDING CONFLICT WITH NEW INDUSTRIAL EQUIPMENT. CONTRACTOR TO ENSURE THAT FINAL MECHANICAL SYSTEM WILL OPERATE AS INTENDED ON PROVIDED DRAWINGS.

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KEYPLAN

A	B	C	D

NORTH

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MECHANICAL - DEMO - AREA B

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

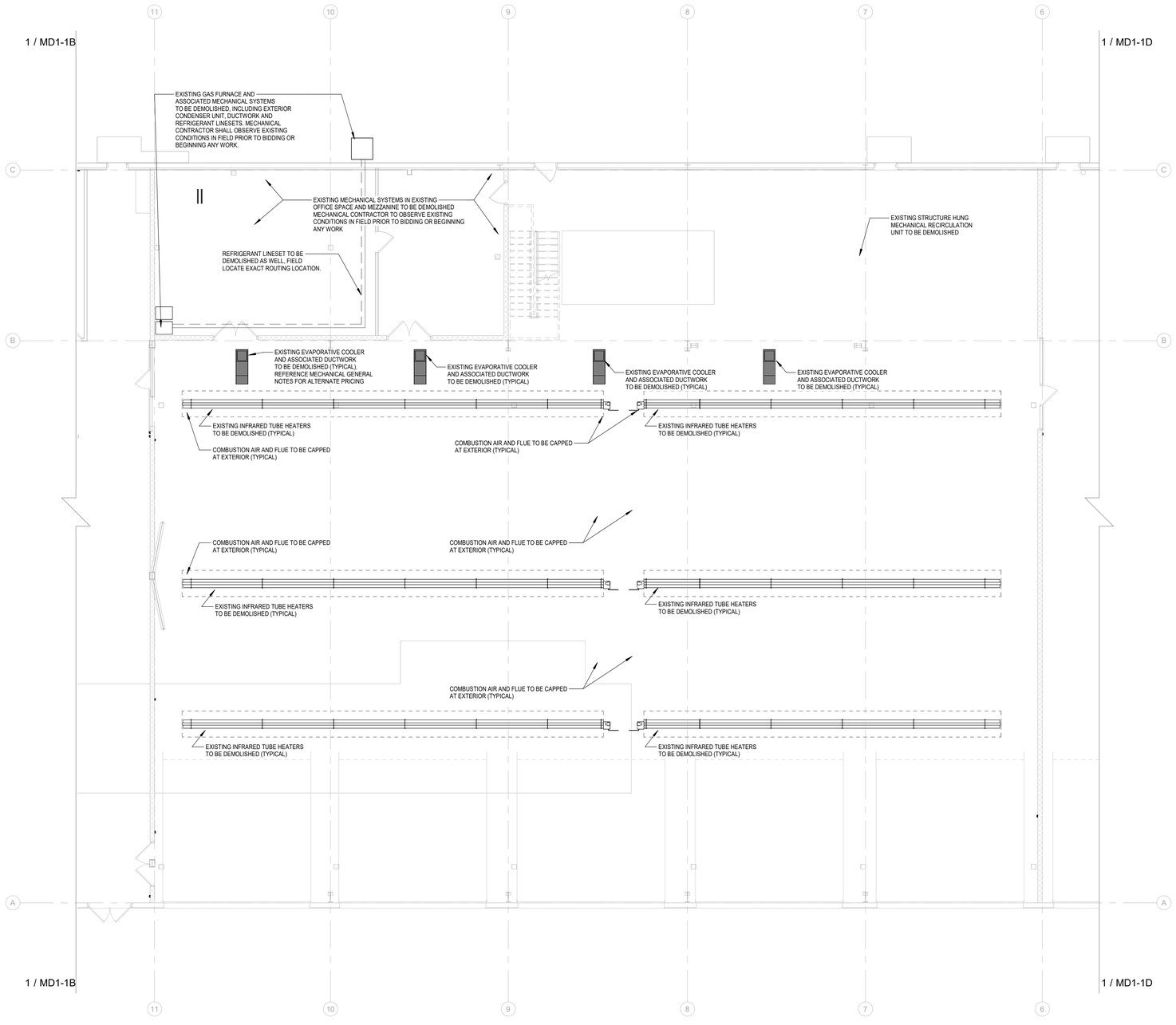
PROJECT #: 25034

SHEET #:

MD1-1B

Project Team:

Print Date: 2/3/2026 11:40:19 AM



1 MD1-1C MECHANICAL - DEMO - AREA C
1/8" = 1'-0"

NORTH

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KEYPLAN

A	B	C	D

NORTH

BG+ co.
Architecture
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Project Management
622 Rood Avenue
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BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

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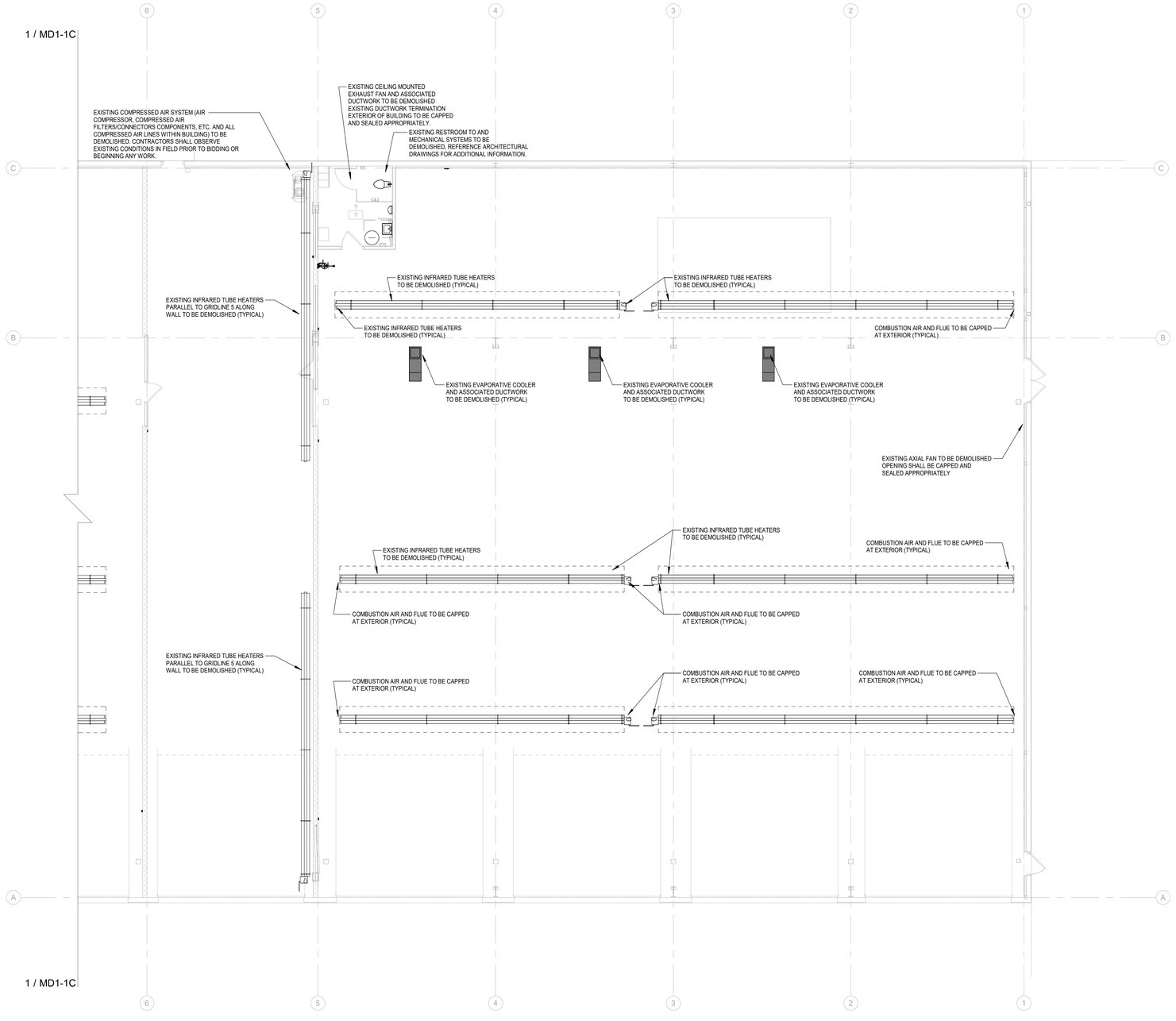
MECHNICAL - DEMO - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

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DATE: 02/02/2026
PROJECT #: 25034
SHEET #:
MD1-1C

Project Team:
Print Date: 2/3/2026 11:40:19 AM



1 MD1-1D NORTH

MECHANICAL - DEMO - AREA D

1/8" = 1'-0"

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MECHANICAL - DEMO - AREA D

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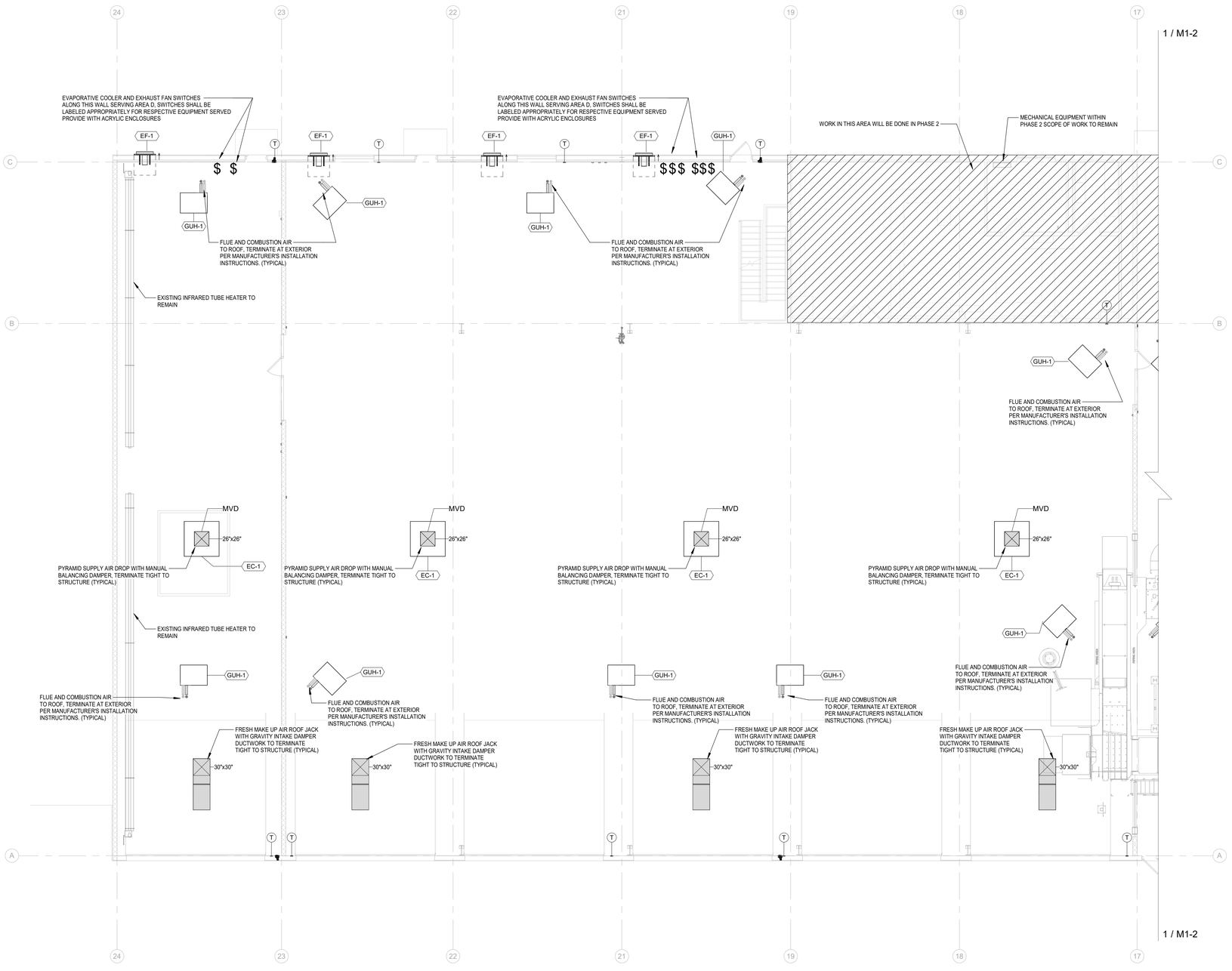
DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

MD1-1D

Project Team:
Print Date: 2/3/2026 11:40:19 AM



1 M1-1 MECHANICAL - RENOVATED - AREA A

1/8" = 1'-0"

NORTH

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11. WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE ARE INSTALLED ON A ROOF HAVING A SLOPE OF 3 UNITS VERTICAL IN 12 UNITS HORIZONTAL OR GREATER AND HAVING AN EDGE MORE THAN 30 INCHES ABOVE GRADE AT SUCH EDGE, A LEVEL PLATFORM SHALL BE PROVIDED ON EACH SIDE OF THE APPLIANCE OR EQUIPMENT TO WHICH ACCESS IS REQUIRED FOR SERVICE, REPAIR OR MAINTENANCE. THE PLATFORM SHALL BE NOT LESS THAN 30" IN ANY DIMENSION AND SHALL BE PROVIDED WITH GUARDS. PLATFORM SHALL BE DESIGNED SUCH THAT EQUIPMENT MAINTENANCE ACCESS IS MAINTAINED PER MANUFACTURER'S INSTALLATION REQUIREMENTS (I.E. ACCESS PANELS AND DOORS CAN BE OPENED AND COMPONENTS CAN BE REMOVED AND MAINTAINED PER MANUFACTURER REQUIREMENTS). THE GUARDS SHALL EXTEND NOT LESS THAN 42 INCHES ABOVE THE PLATFORM, SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE INTERNATIONAL BUILDING CODE. ACCESS SHALL NOT REQUIRE WALKING ON ROOFS HAVING A SLOPE GREATER THAN 4 UNITS VERTICAL IN 12 UNITS HORIZONTAL. WHERE ACCESS INVOLVES OBSTRUCTIONS GREATER THAN 30 INCHES IN HEIGHT, SUCH OBSTRUCTIONS SHALL BE PROVIDED WITH LADDERS INSTALLED IN ACCORDANCE WITH SECTION 306.5 OR STAIRWAYS INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE INTERNATIONAL BUILDING CODE IN THE PATH OF TRAVEL TO AND FROM APPLIANCES, FANS OR EQUIPMENT REQUIRING SERVICE.

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MECHANICAL - RENOVATED - AREA A

BID PACKAGE 1 FOR CONSTRUCTION

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DATE: 02/02/2026

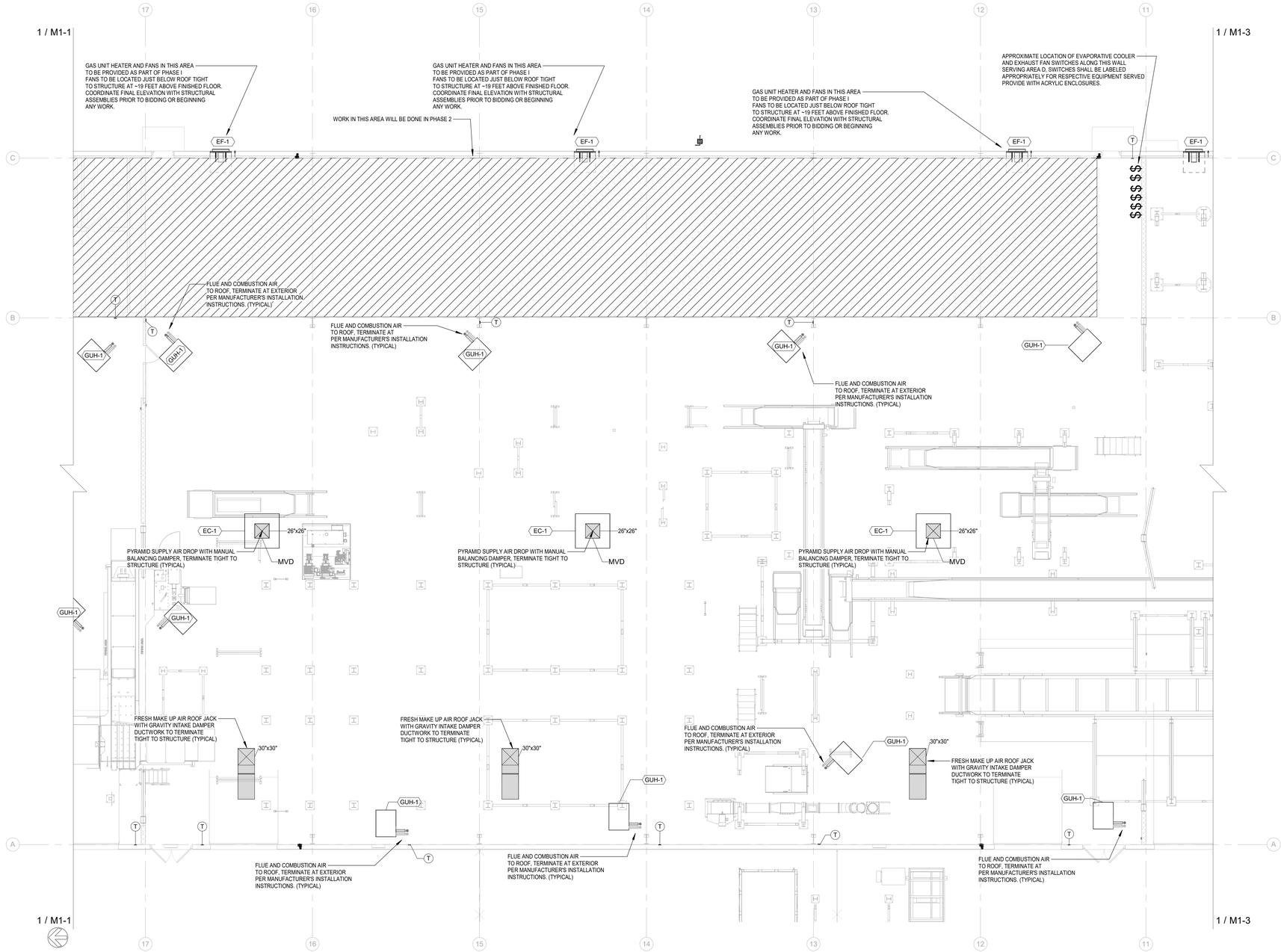
PROJECT #: 25034

SHEET #:

M1-1

Project Team:

Print Date: 2/3/2026 11:40:20 AM



MECHANICAL - RENOVATED - AREA B

1 M1-2 — 1/8" = 1'-0"

NORTH

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MECHANICAL - RENOVATED - AREA B

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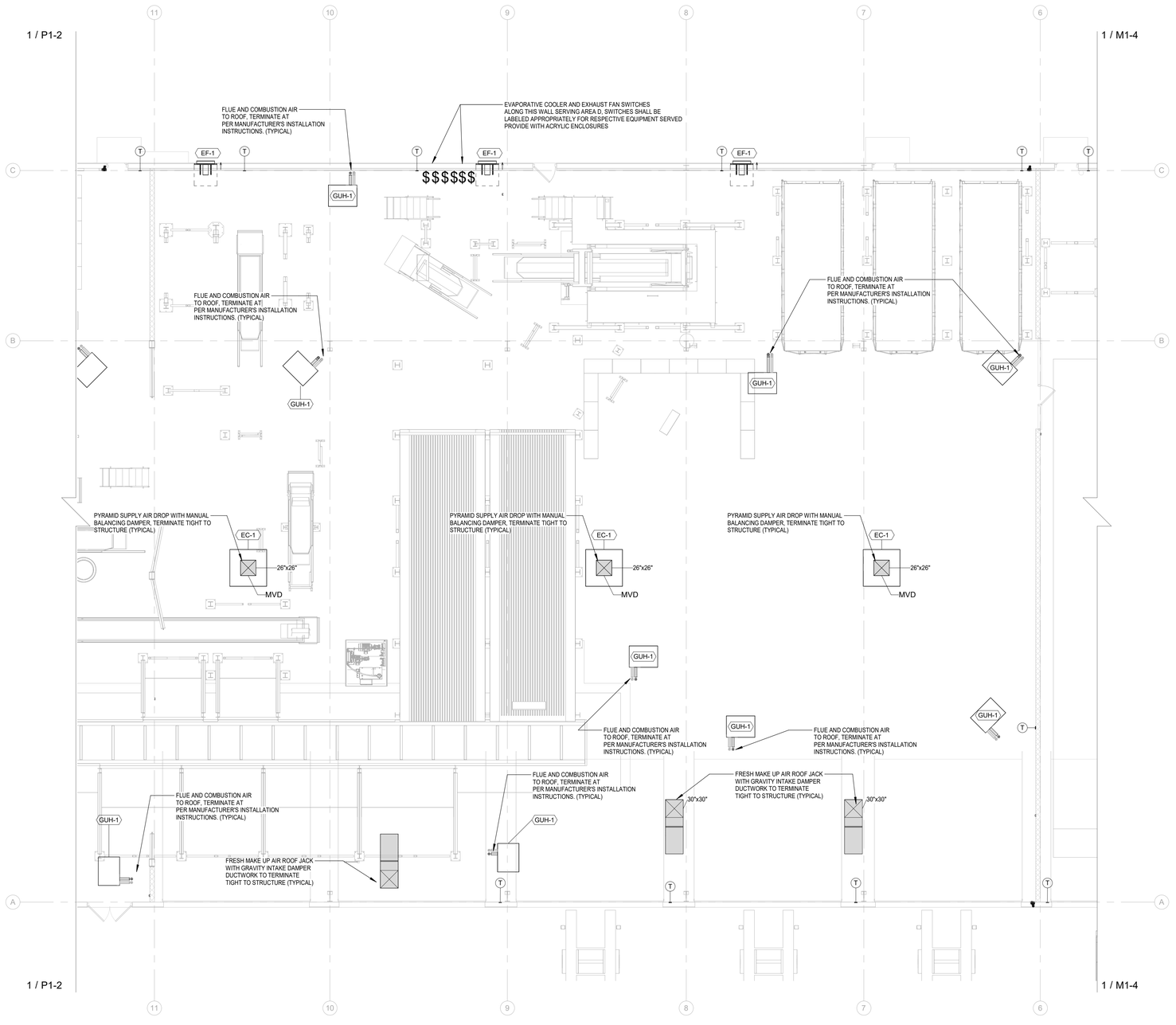
PROJECT #: 25034

SHEET #:

M1-2

Project Team:

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MECHANICAL - RENOVATED - AREA C

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KEYPLAN

A	B	C	D

NORTH

BG+ co.

Architecture
Interior Design
Project Management

622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

MECHANICAL - RENOVATED - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

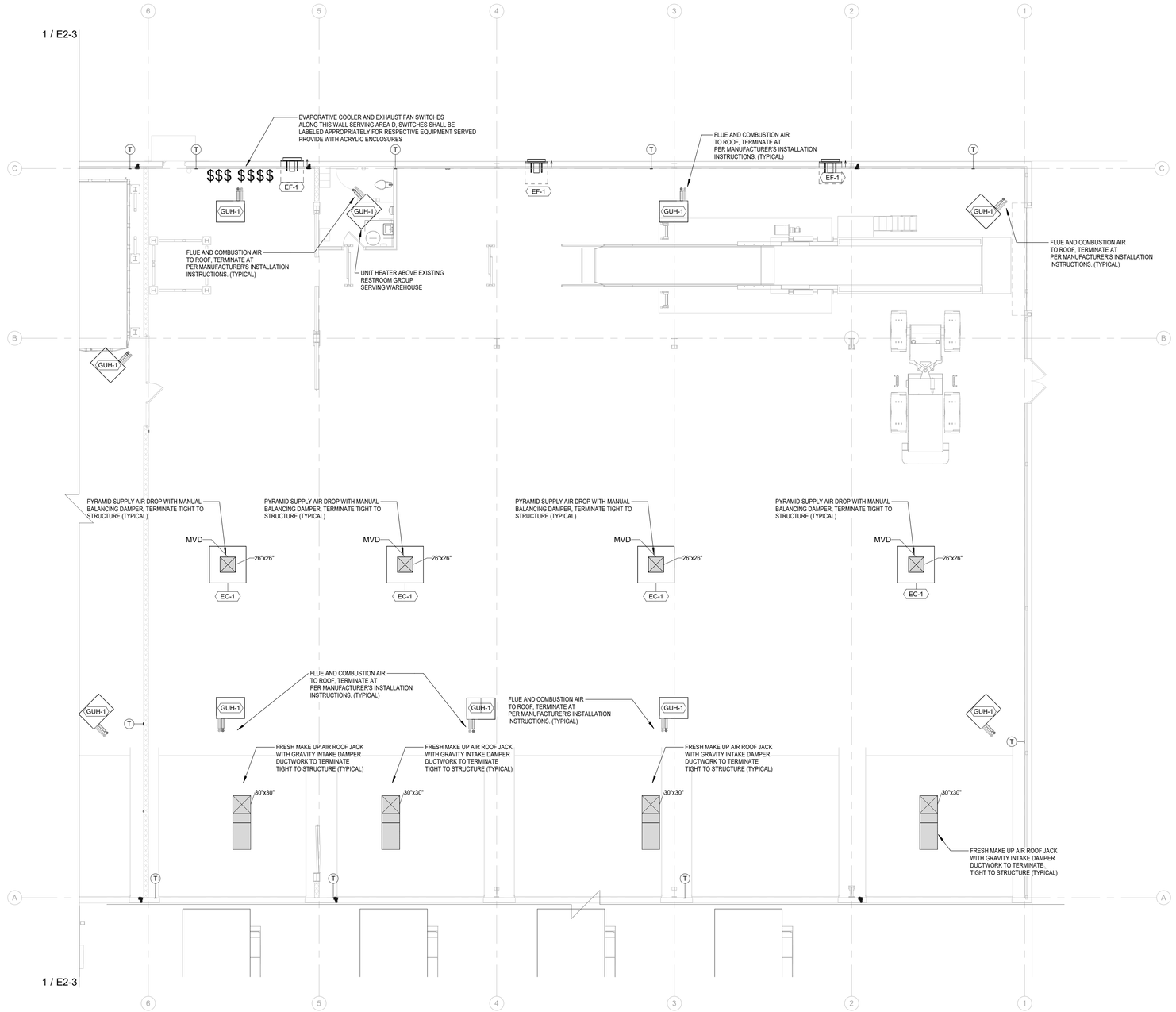
PROJECT #: 25034

SHEET #:

M1-3

Project Team:

Print Date: 2/3/2026 11:40:23 AM



1 M1-4 MECHANICAL - RENOVATED - AREA D
1/8" = 1'-0"

NORTH

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MECHANICAL - RENOVATED - AREA D

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

M1-4

Project Team:

Print Date: 2/3/2026 11:40:24 AM

GAS FIRED UNIT HEATER SCHEDULE

TYPE MARK	SERVICE	SUPPLY AIRFLOW (CFM)	HEATING			GAS PIPE CONNECTION SIZE	VENT SIZE	AIR INLET SIZE	ELECTRICAL						MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
			GAS FLOW RATE (CFH)	INPUT	OUTPUT				VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)	MOTOR HP			
GUH-1	WAREHOUSE	2458	198	175	159.25	3/4"	6"Ø	4"	120 V	1	60 Hz		20 A	1/4	REZNOR	UEZ-180	NOTE-1

NOTES:
1. HIGH EFFICIENCY CONDENSING UNIT HEATER. PROVIDE WALL MOUNTED THERMOSTAT, HIGH ALTITUDE KIT SIZED PER LOCATION ELEVATION, LOCKING COVER FOR THERMOSTAT, AUXILIARY FAN MOTOR RUN SWITCH FOR SUMMER OPERATION AIR MOVEMENT LOCATED ADACENT TO THERMOSTAT, 3/8" HANGERS FOR FOUR-POINT SUSPENSION FROM 1-INCH THREADED PIPE (REFERENCE STRUCTURAL DRAWINGS FOR MOUNTING REQUIREMENTS), 409 SST HEAT EXCHANGER, TOTALLY-ENCLOSED MOTOR, EITHER VERTICAL OR HORIZONTAL FLUE/COMBUSTION AIR TERMINATION, MANUAL SHUTOFF VALVE, DIRT LEG, EASILY-VIEWED STATUS INDICATING LED, CONDENSATE NEUTRALIZATION KIT, HINGED ACCESS DOOR PANEL WITH QUARTER-TURN LATCH, PAINTED GALVANIZED-STEEL CABINET, DOWNTURN NOZZLE, 25 TO 65 DEGREE VARIABLE AIR DEFLECTION RANGE WITH VERTICAL LOUVERS. DIMENSIONS ~22"H X ~40"W X ~56"D, WEIGHT 245 LBS. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCE TO COMBUSTIBLES. PROVIDE AUXILIARY LITTLE GIANT - HT-VCL-P 5531601O1 1/3 HP, 115V/1PH/60HZ HIGH TEMPERATUER CONDENSATE PUMP AT EACH UNIT HEATER. CONDENSATE SHALL BE PIPED TIGHT TO STRUCTURE ROUTED TO EAST WALL OF WAREHOUSE ALONG GRIDLINE C. CONDENSATE SHALL TERMINATE AT AIR GAP OR AIR BREAK AT APPROPRIATE SANITARY WASTE SYSTEM RECEPTACLE.

EXHAUST FAN SCHEDULE

TYPE MARK	SERVICE	LOCATION	EXHAUST AIRFLOW (CFM)	EXHAUST E.S.P.	MOTOR					MANUFACTURER	MODEL #	NOTES
					EXHAUST FAN MOTOR POWER	EXHAUST FAN SPEED (RPM)	VOLTS	PHASE	ELECTRICAL FREQUENCY			
EF-1	WAREHOUSE	SIDEWALL	11000	.5	2	1750	208 V	3	60 Hz	GREENHECK	AER-30-03-0316	NOTE-1

NOTES:
1. ECM VARIGREEN DIRECT DRIVE MOTOR AXIAL EXHAUST FAN. PROVIDE WALL MOUNTED VARIABLE CONTROL. WALL MOUNTED SWITCH PROVIDED WITH APPROPRIATE LABEL AND ENCLOSURE, MOTORIZED LOW LEAKAGE BACKDRAFT DAMPER INTERLOCKED WITH EXHAUST FAN OPERATION, OPTIONAL WALL COLLAR, ALUMINUM PROPELLER, FAN/MOTOR GUARD, BIRDSCREEN.

EVAPORATIVE COOLER SCHEDULE

TYPE MARK	SUPPLY AIRFLOW (CFM)	SUPPLY E.S.P.	ELECTRICAL			POWER	MOTOR HP	MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
			VOLTS	PHASE	FREQUENCY					
EC-1	8130	0.7"	460 V	3	60 Hz	1490 W	2	CHAMPION COOLER	10/12 DD	NOTE-1

NOTES:
1. ADIABATIC DOWN DISCHARGE EVAPORATIVE COOLER. PROVIDE WITH 115 VOLT WATER PUMP, ASPEN MEDIA COOLING PADS, WALL MOUNTED MULTI-SPEED SWITCH WITH FAN MODE, WATER DISTRIBUTOR ASSEMBLY, PUMP SCREEN, FLOAT VALVE ASSEMBLY, CURB, DOWNFLOW DISCHARGE, OVERFLOW ASSMEBLY, MOTOR STARTER FOR BLOWER FAN, AND RECEPTACLE FOR PUMP. 3-WAY DRAIN DISCHARGE VALVE FOR WINTERIZATION, UNIT TO BE CONTROLLED FROM WALL MOUNTED SWITCH WITH VARIABLE SPEEDS, FAN MODE AND COOLING MODE. WEIGHT 622 LBS, DIMENSIONS ~53"H X 50"W X 5"D, DUCT OPENING ~27"X27".

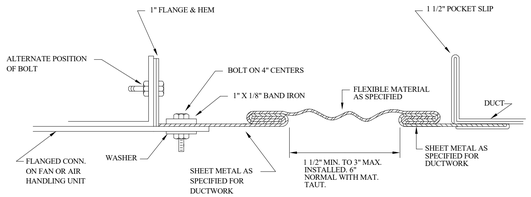
DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES

RECTANGULAR DUCTS

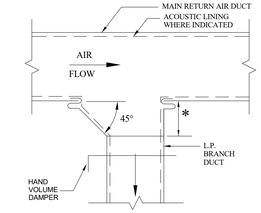
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	ALUMINUM (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	0.020 INCH (NO. 24 B&S GAGE)
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)	0.025 INCH (NO. 22 B&S GAGE)
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)	0.032 INCH (NO. 20 B&S GAGE)
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (NO. 18 B&S GAGE)
OVER 84	0.052 INCH (18 GAGE, GALV.)	0.051 INCH (NO. 16 B&S GAGE)

ROUND DUCTS

MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT STEEL (MINIMUM THICKNESS, NOMINAL)	LONGITUDINAL SEAM DUCT STEEL (MINIMUM THICKNESS, NOMINAL)	FITTINGS STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)

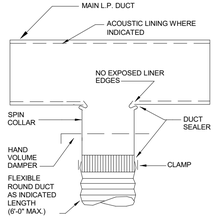


RECTANGULAR FLEXIBLE CONNECTION DETAIL
N.T.S.



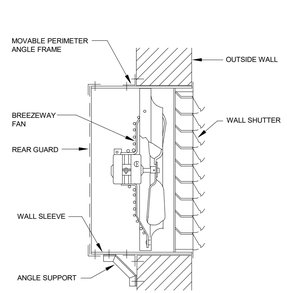
*-EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

TYPICAL SUPPLY AIR BRANCH DUCT TAKE-0FF
NOT TO SCALE

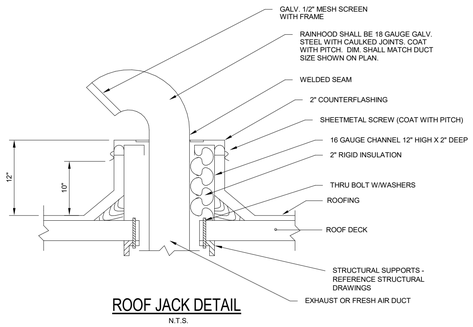


ROUND DUCT

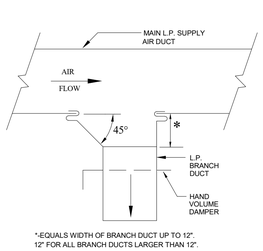
TYPICAL LOW PRESSURE BRANCH DUCT TAKE-OFF
NOT TO SCALE



WALL MOUNTED AXIAL FAN DETAIL
NOT TO SCALE

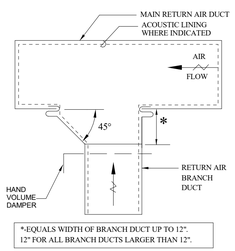


ROOF JACK DETAIL
N.T.S.



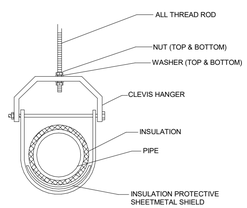
*-EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

TYPICAL LOW PRESSURE BRANCH DUCT TAKE-OFF
NOT TO SCALE

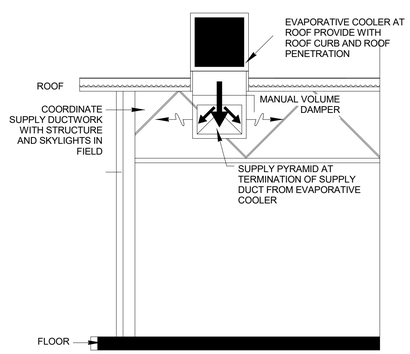


*-EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

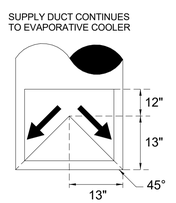
TYPICAL RETURN AIR BRANCH DUCT TAKE-OFF
NOT TO SCALE

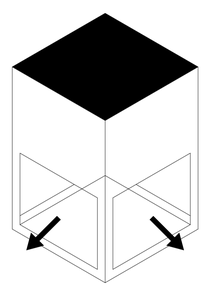


TYPICAL CLEVIS HANGER DETAIL
NOT TO SCALE



EVAPORATIVE COOLER DUCT DETAIL
NOT TO SCALE





EVAPORATIVE COOLER PYRAMID DETAIL
NOT TO SCALE

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

MECHANICAL DETAILS

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

M2-1

Project Team:

Print Date: 2/3/2026 11:40:24 AM

PLUMBING PIPE DESIGNATIONS

LINE TYPE	DESCRIPTION
140	HIGH TEMPERATURE (140°) WATER PIPE
	COLD WATER PIPE (CW)
CA	COMPRESSED AIR
DC	DECONTAMINATION PIPING
DER	DEIONIZED WATER RETURN
DES	DEIONIZED WATER SUPPLY
DIS	DISTILLED WATER SUPPLY
DIR	DISTILLED WATER RETURN
CD	EQUIPMENT CONDENSATE DRAIN
FP	FIRE MAIN
GW	GREASE WASTE PIPE
HE	HELIUM
HPS	HIGH PRESSURE STEAM
HPC	HIGH PRESSURE CONDENSATE
	HOT WATER RECIRCULATION (HWR)
	HOT WATER PIPE (HW)
H2	HYDROGEN
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
MA	MEDICAL AIR
G	NATURAL GAS PIPE
N2	NITROGEN
N2O	NITROUS OXIDE
ORD	OVERFLOW STORM WATER PIPE
O2	OXYGEN
PG	PROPANE GAS
RD	ROOF DRAIN PIPE
	SOIL OR WASTE PIPE
S/O	SOIL / OIL WASTE PIPE
TWR	TOWER WATER RETURN
TWS	TOWER WATER SUPPLY
VAC	VACUUM
	VENT PIPE (V)

PLUMBING ELEMENTS / VALVING

LINE TYPE	DESCRIPTION
	PRESSURE REDUCING VALVE (PRV)
	GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	BALL VALVE
	SWING CHECK VALVE
	LIFT CHECK VALVE
	GATE VALVE, ANGLE
	GLOBE VALVE, ANGLE
TPV	TEMPERATURE AND PRESSURE RELIEF VALVE
	RELIEF/SAFETY VALVE
	GAS COCK
	GAS PRESSURE REGULATOR
	STRAINER
	STRAINER WITH BLOW OFF VALVE
WH	WATER HEATER
M	WATER METER
	PRESSURE GAGE
	TEMPERATURE GAGE

LINE TYPE	DESCRIPTION
	PIPE RISING UP
	PIPE DROPPING DOWN
	UNION - SCREWED OR FLANGED
PT/PS	PRESSURE TRANSMITTER OR PRESSURE SWITCH
TH/TI	THERMOMETER/TEMPERATURE INDICATOR
PI/GA	GAUGE WITH GAUGE COCK/ PRESSURE INDICATOR
	BACKFLOW PREVENTOR (REDUCED ZONE)
	BACKFLOW PREVENTOR (DOUBLE CHECK VALVE ASSEMBLY)
SA	WATER HAMMER ARRESTER
	CIRCUIT SETTING
HB	HOSE BIBB
RD	ROOF DRAIN
FD	FLOOR DRAIN
AD	AREA DRAIN
CO	FLOOR CLEAN OUT
FS	FLOOR SINK
COG	CLEAN OUT TO GRADE
CO	WALL CLEAN OUT
	FLEXIBLE-CONNECTION
	CHECK VALVE
	VACUUM BREAKER

PLUMBING SHEET LIST

Sheet Number	Sheet Name
P0-1	COVER SHEET
PD1-1A	PLUMBING - DEMO - AREA A
PD1-1B	PLUMBING - DEMO - AREA B
PD1-1C	PLUMBING - DEMO - AREA C
PD1-1D	PLUMBING - DEMO - AREA D
P1-1	PLUMBING - RENOVATED - AREA A
P1-2	PLUMBING - RENOVATED - AREA B
P1-3	PLUMBING - RENOVATED - AREA C
P1-4	PLUMBING - RENOVATED - AREA D
P2-1	PLUMBING DETAILS

RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

ITEM	FURNISHED	SET	POWER WIRED	CONTROL WIRED
EQUIPMENT	23	23	26	--
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23(1)	26	26(2)	23
FUSED AND UNFUSED DISCONNECT SWITCHES, THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	26	26	26	--
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:
1. MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1)NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
2. IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER DIVISION 26.

SUBSTITUTIONS:

A. SUBSTITUTIONS: SUBSTITUTION OF SPECIFIED EQUIPMENT WILL BE ALLOWED THROUGH A PRIOR APPROVAL PROCESS INITIATED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT INTENDED SUBSTITUTION AT LEAST FIVE DAYS PRIOR TO BID FOR APPROVAL FROM ENGINEER. SUBMITTAL SHALL INCLUDE CAPACITIES, DIMENSIONS AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT. SUBSTITUTION SHALL OCCUR AT NO COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF APPROVED SUBSTITUTION AND SHALL INCUR ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING STRUCTURAL MODIFICATIONS, SPACE LAYOUT AND REDESIGN COSTS. SEE ALSO DIVISION I GENERAL REQUIREMENTS.

EXAMINATION OF SITE, DRAWINGS, SPECIFICATIONS:

A. EXAMINE CAREFULLY THE SITE AND CONDITIONS OF THE SITE. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR TO INSTALL A COMPLETE WORKING SYSTEM WITHIN THE SITE CONDITIONS.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND 5 DAYS PRIOR TO BIDDING REPORT ANY ERRORS, OMISSIONS, INCONSISTENCIES, AND CONFLICTS TO THE ENGINEER TO BE REMEDIED IN AN ADDENDUM TO THE PROJECT PRIOR TO BID TIME.

C. DRAWINGS ARE DIAGRAMMATIC AND CATALOG NUMBERS GIVEN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CAPACITY OF THE EQUIPMENT MEETS THE DRAWING REQUIREMENTS AND SHALL NOT DIMENSION FROM THE MECHANICAL, PLUMBING, OR PIPING DRAWINGS.

D. THE LATEST ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODES SHALL BE USED AS REQUIRED. THIS WILL ALSO INCLUDE THE LATEST ADOPTED VERSIONS OF THE MECHANICAL, PLUMBING, AND ENERGY CONSERVATION CODES. ALL METHODS AND MATERIALS REQUIRED BY THESE CODES SHALL BE REQUIRED BY THESE SPECIFICATIONS UNLESS INDICATED OTHERWISE. OTHER APPLICABLE LOCAL CODES AND ORDINANCES SHALL BE AS REQUIRED AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE KNOWLEDGEABLE OF THESE REQUIREMENTS.

E. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL BEING INSTALLED, PRINTED COPIES OF THESE RECOMMENDATIONS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF THE ITEM WILL NOT BE ALLOWED TO PROCEED UNTIL THE RECOMMENDATIONS ARE RECEIVED. FAILURE TO FURNISH THESE RECOMMENDATIONS CAN BE CAUSE FOR REJECTION OF THE MATERIAL.

ABBREVIATIONS:

44"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTERS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL OR DOOR
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO / VIDEO
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD
BD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTOR
BL	BOILER
BLDG	BUILDING
BLW	BELOW
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
C	CHILLER
CAFCI	COMBINATION ARC FAULT CIRCUIT INTERRUPTERS
CAP	CAPACITY
CB	CIRCUIT BREAKER
CBV	CIRCUIT BALANCING VALVE
CCT	CORRELATED COLOR TEMPERATURE
CKT	CIRCUIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CRI	COLOR RENDERING INDEX
CT	COOLING TOWER
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
CVB	CONSTANT VOLUME BOX
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR GRILLE/REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	EMERGENCY FUNCTION
ENT	ENTERING
EMT	ELECTRIC METALLIC TUBE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	END SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXPAN	EXPANSION
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FAN COIL UNIT
FC	FOOTCANDLE
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FD	FLOOR DRAIN
FIN	FINISHED
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET
FXC	FLEXIBLE CONNECTION
GND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GEC	GROUND ELECTRODE CONDUCTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRS/LB GRAINS PER POUND
H2O	WATER
HB	HOSE BIBB
HD	HEAD (SEE SCHEDULES)
HP	HEAT PUMP
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTR	HEATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCHES
INV	INVERT
JBOX	JUNCTION BOX
K	KELVIN
KW	KILOWATT
KVA	KILO VOLT - AMPS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LIN	LINEAR
LIQ	LIQUID
LM	LUMEN
LRA	LOCKED ROTOR AMPS
LV	LOUVER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
N	NEUTRAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT / SECURITY LIGHT - DO NOT SWITCH
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
OCP	OVER CURRENT PROTECTION
OD	OUTSIDE DIAMETER
OL	OVERLOAD
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PH	PHASE
POS	POSITIVE PRESSURE
POS	POINT OF SALES
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR GRILLE / REGISTER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR GRILLE / REGISTER
SC	SHORT CIRCUIT
SCA	SHORT CIRCUIT AVAILABLE
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SH	SENSIBLE HEAT
SH	SHOWER
SP	STATIC PRESSURE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SS	SAFETY SHOWER
STD	STANDARD
STL	STEEL
SYS	SYSTEM
TEMP	TEMPERATURE
TR	TRANSFER GRILLE / REGISTER
TR	TAMPER RESISTANT
TT	TEMPERATURE TRANSMITTER
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
TYP	TYPICAL
TX	TRANSFORMER
UC	UNDERCUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNOCC	UNOCCUPIED
UR	URINAL
V	VOLTS
VA	VOLT AMPERE
VA	VALVE
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VOLT	VOLTAGE
VTR	VENT THROUGH ROOF
W	WIDTH
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WC	WATER CLOSET
WG	WATER GAUGE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
WSR	WITHSTAND RATING
XFMR	TRANSFORMER

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COVER SHEET

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

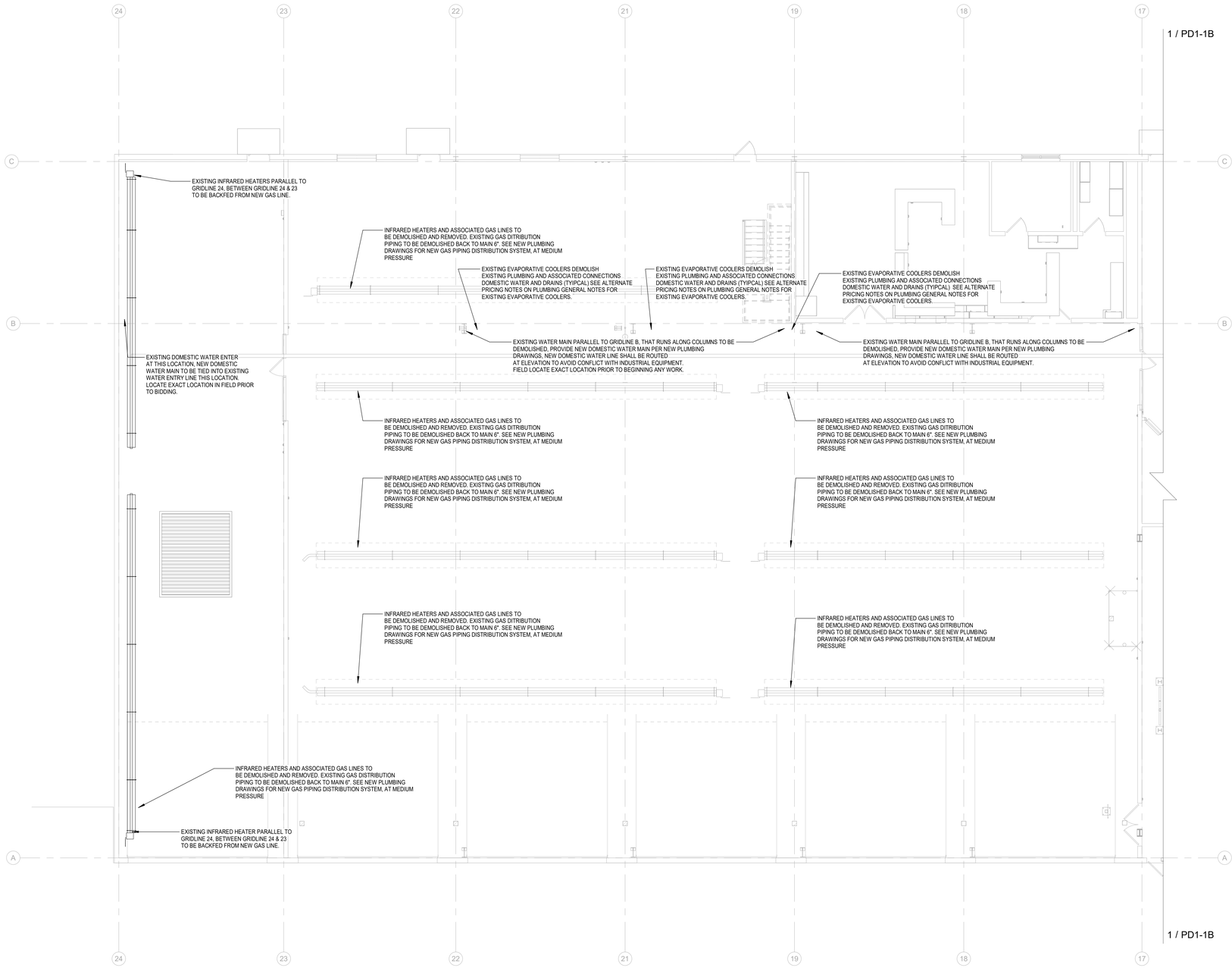
PROJECT #: 25034

SHEET #:

P0-1

Project Team:

Print Date: 2/3/2026 11:40:24 AM



1 PD1-1A PLUMBING - DEMO - AREA A
1/8" = 1'-0"

NORTH

PLUMBING GENERAL NOTES:

1. DRAWING IS DIAGRAMMATIC IN NATURE. LOCATIONS AND SIZES MAY VARY DURING FIELD COORDINATION & INSTALLATION OF MECHANICAL, PLUMBING, & ELECTRICAL. DRAWINGS DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK. VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.

2. CONTRACTOR SHALL CLEAN AND SERVICE ALL EXISTING EQUIPMENT/PLUMBING FIXTURES TO REMAIN. CONTRACTOR SHALL VERIFY ALL EQUIPMENT/PLUMBING FIXTURES ARE PROPERLY FUNCTIONING PRIOR TO RE-USING EQUIPMENT/FIXTURES. CONTRACTOR TO ENSURE THAT FINAL PLUMBING SYSTEM WILL OPERATE AS INTENDED ON PROVIDED DRAWINGS.

3. PRIOR TO BIDDING OR BEGINNING ANY CONSTRUCTION, CONTRACTOR SHALL OBSERVE EXISTING CONDITIONS IN FIELD. EXISTING SPACE SHALL BE PREPARED FOR FUTURE PLUMBING SCOPE OF WORK SELECTIVELY DEMOLISH PLUMBING SYSTEMS REQUIRED FOR INSTALLATION AND FUNCTIONALITY OF NEW PLUMBING FIXTURES AND PLUMBING SYSTEMS (GAS, WATER, SEWER, DRAIN, ETC.) CONTRACTOR SHALL OBSERVE AND CONFIRM FIELD LOCATIONS OF EXISTING DOMESTIC WATER AND SANITARY SEWER FOR SERVICE CONNECTIONS. CONTRACTOR SHALL VERIFY EXISTING SANITARY WASTE SEWER INVERT AT ANTICIPATED TIE IN LOCATION. CONFIRM NO OBSTACLES ARE IN PATH OF ANTICIPATED GRAVITY SANITARY SEWER TIE IN LOCATION AND INVERT IS ADEQUATE.

4.EXISTING COMPRESSED AIR SYSTEM (AIR COMPRESSOR, COMPRESSED AIR FILTERS/CONNECTORS COMPONENTS, ETC. AND ALL COMPRESSED AIR LINES WITHIN BUILDING) TO BE DEMOLISHED THROUGHOUT ENTIRE BUILDING. CONTRACTORS SHALL OBSERVE EXISTING CONDITIONS IN FIELD PRIOR TO BIDDING OR BEGINNING ANY WORK.

5.PLUMBING CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING FOR EXISTING EVAPORATIVE COOLERS TO REMAIN (I.E. IF NEW EVAPORATIVE COOLERS ARE NOT PROVIDED), DOMESTIC WATER TO BE BACKFED FROM NEW DOMESTIC MAIN COLD WATER LINE DISTRIBUTED THROUGH BUILDING.

KEYPLAN

A	B	C	D

NORTH

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PLUMBING - DEMO - AREA A

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

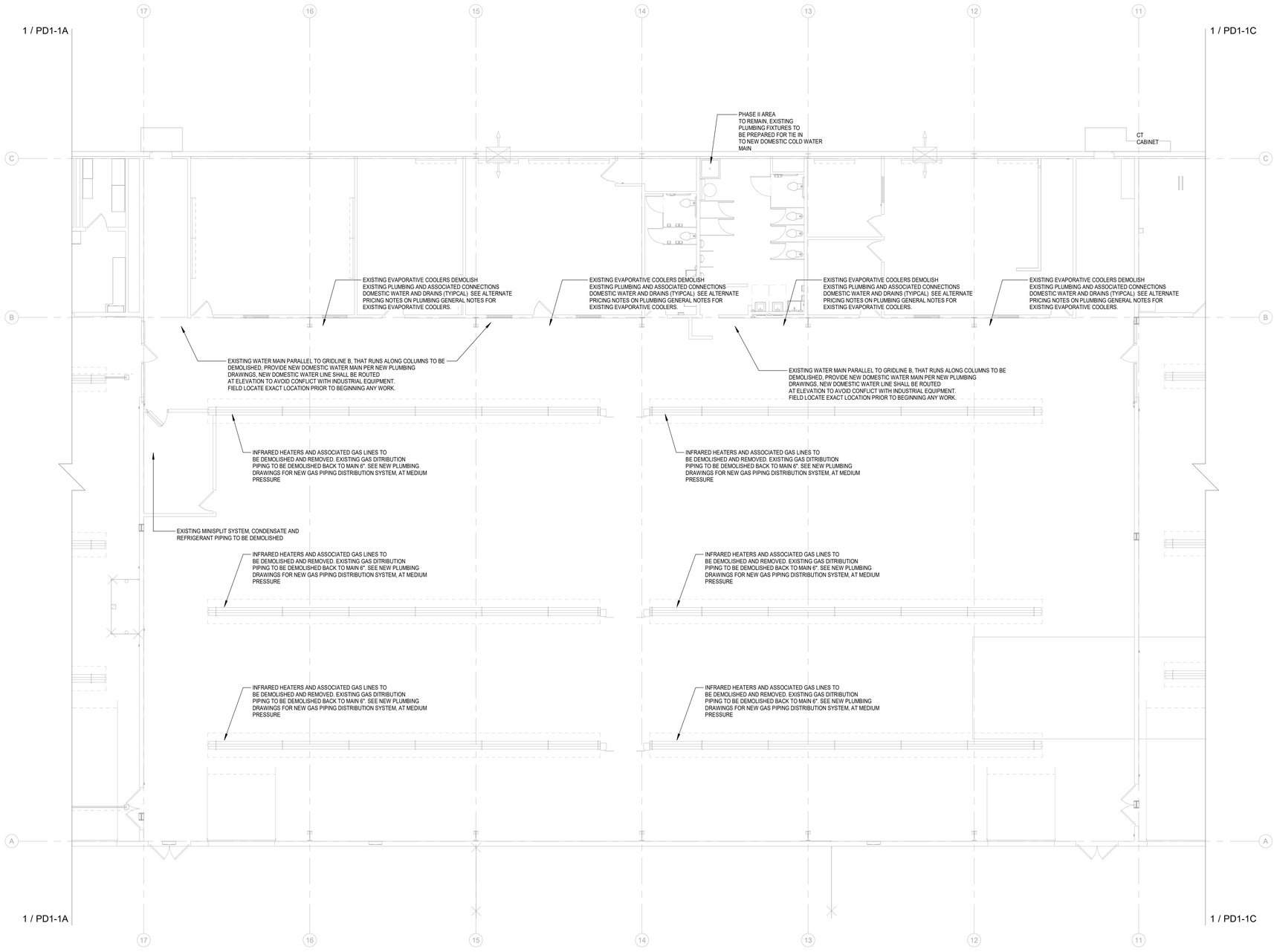
PROJECT #: 25034

SHEET #:

PD1-1A

Project Team:

Print Date: 2/3/2026 11:40:24 AM



1 PD1-1B PLUMBING - DEMO - AREA B

1/8" = 1'-0"

NORTH

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5.PLUMBING CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING FOR EXISTING EVAPORATIVE COOLERS TO REMAIN (I.E. IF NEW EVAPORATIVE COOLERS ARE NOT PROVIDED), DOMESTIC WATER TO BE BACKFED FROM NEW DOMESTIC MAIN COLD WATER LINE DISTRIBUTED THROUGH BUILDING.

KEYPLAN

A	B	C	D

NORTH

BG+ co.
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Interior Design
Project Management
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Grand Junction, CO 81501
970-242-1058 office
BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

PLUMBING - DEMO - AREA B

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

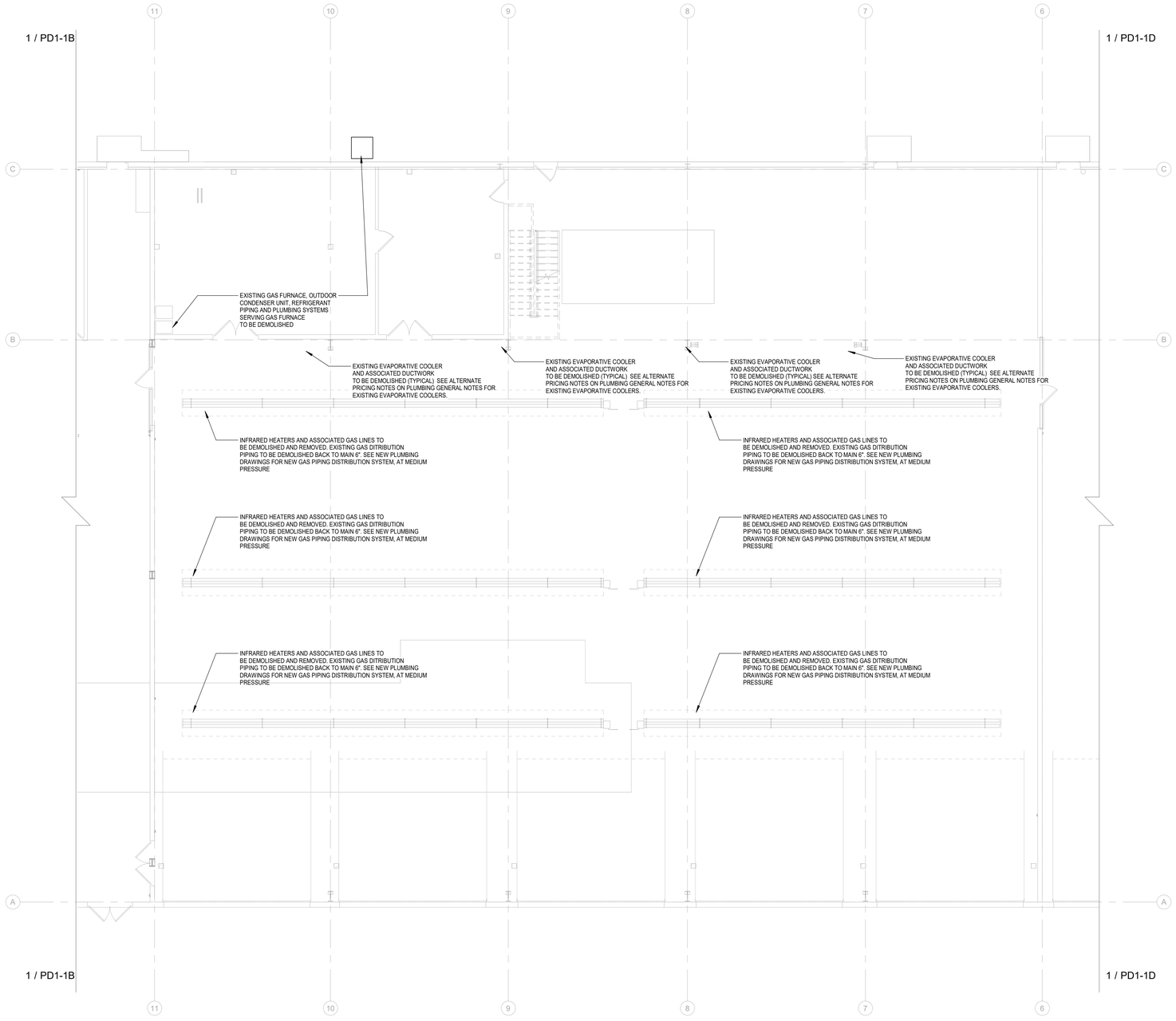
PROJECT #: 25034

SHEET #:

PD1-1B

Project Team:

Print Date: 2/3/2026 11:40:24 AM



1 PD1-1C PLUMBING - DEMO - AREA C
1/8" = 1'-0"

NORTH

PLUMBING GENERAL NOTES:

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KEYPLAN

A	B	C	D

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PLUMBING - DEMO - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

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DATE: 02/02/2026

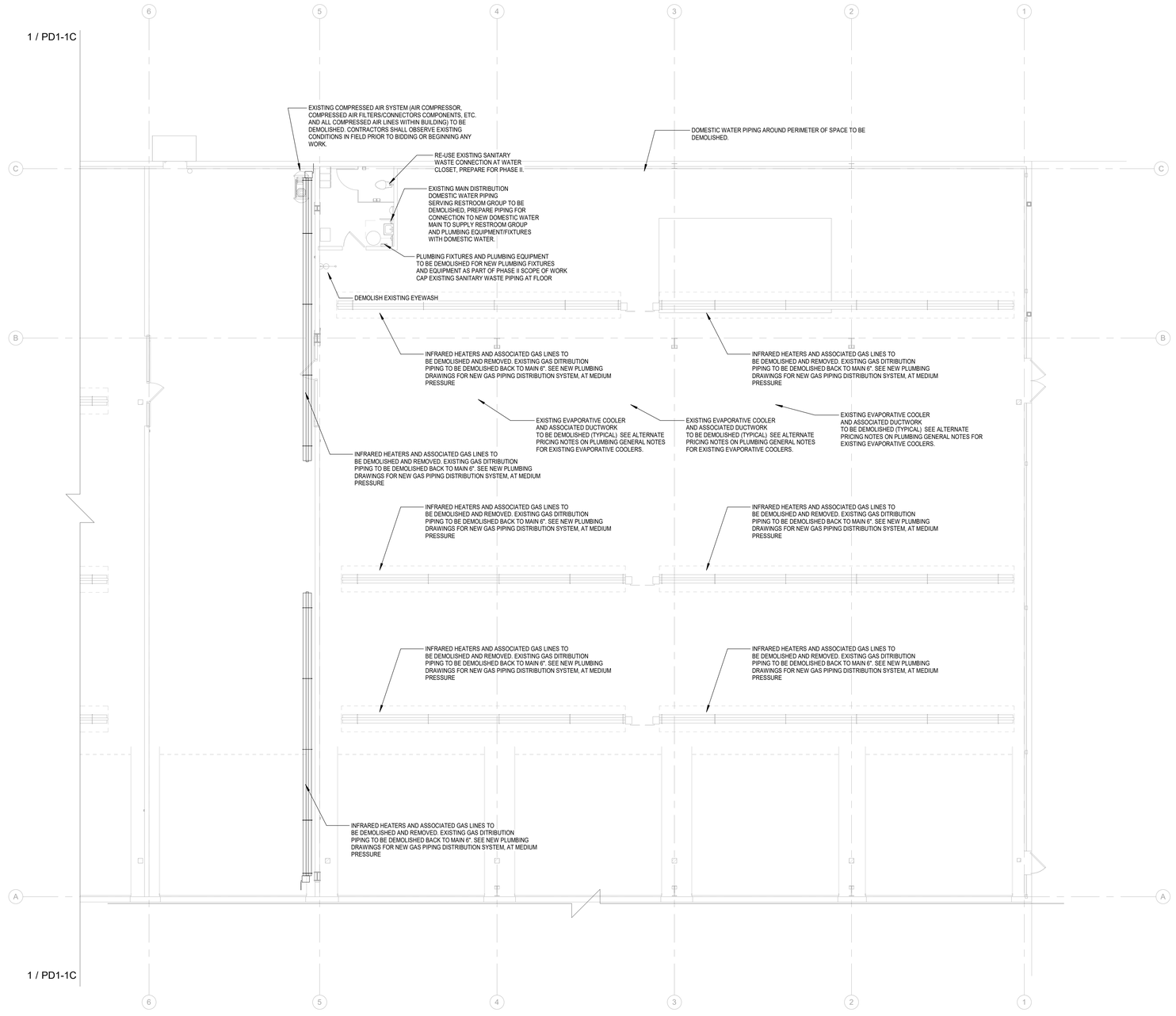
PROJECT #: 25034

SHEET #:

PD1-1C

Project Team:

Print Date: 2/3/2026 11:40:24 AM



1 PD1-1D PLUMBING - DEMO - AREA D
1/8" = 1'-0"

NORTH

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

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PLUMBING - DEMO - AREA D

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

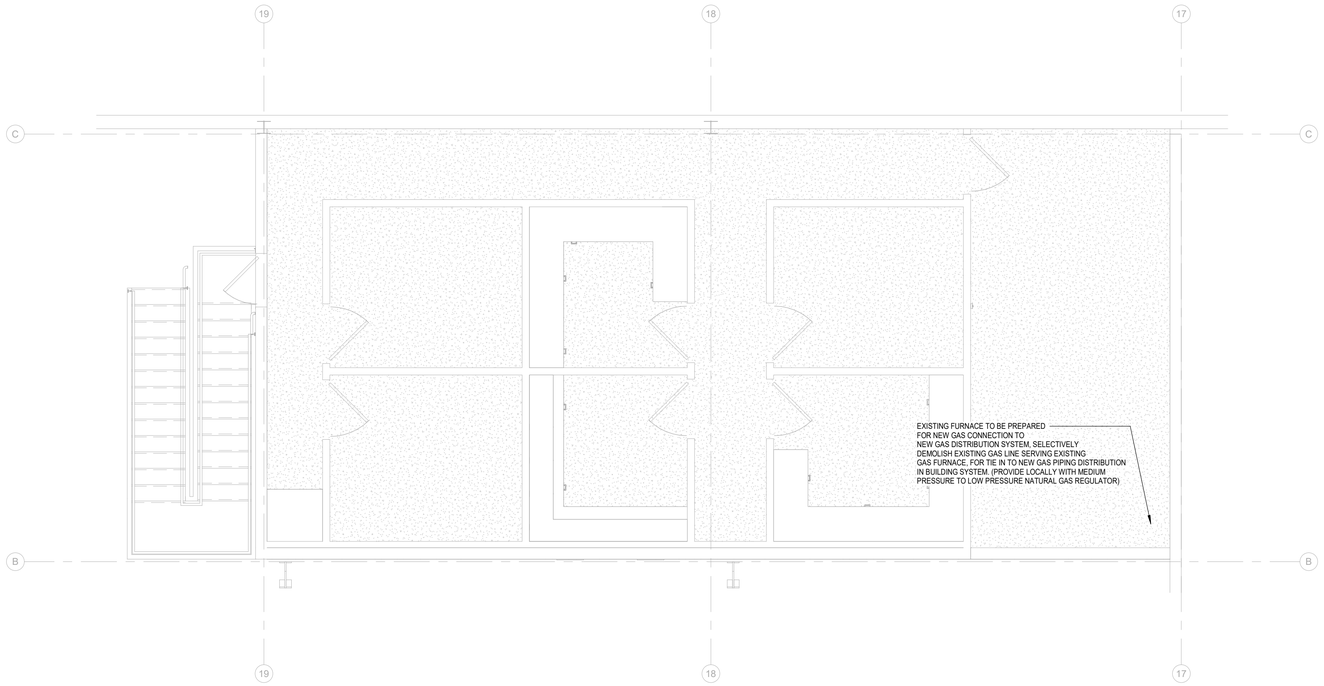
PROJECT #: 25034

SHEET #:

PD1-1D

Project Team:

Print Date: 2/3/2026 11:40:24 AM



1 PD1-2A PLUMBING - DEMO - ENLARGED FLOOR PLAN - MEZZANINE

1/4" = 1'-0"

NORTH

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365 32 RD, GRAND JUNCTION, CO 81520

PLUMBING - DEMO - ENLARGED FLOOR PLAN - MEZZENINE

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

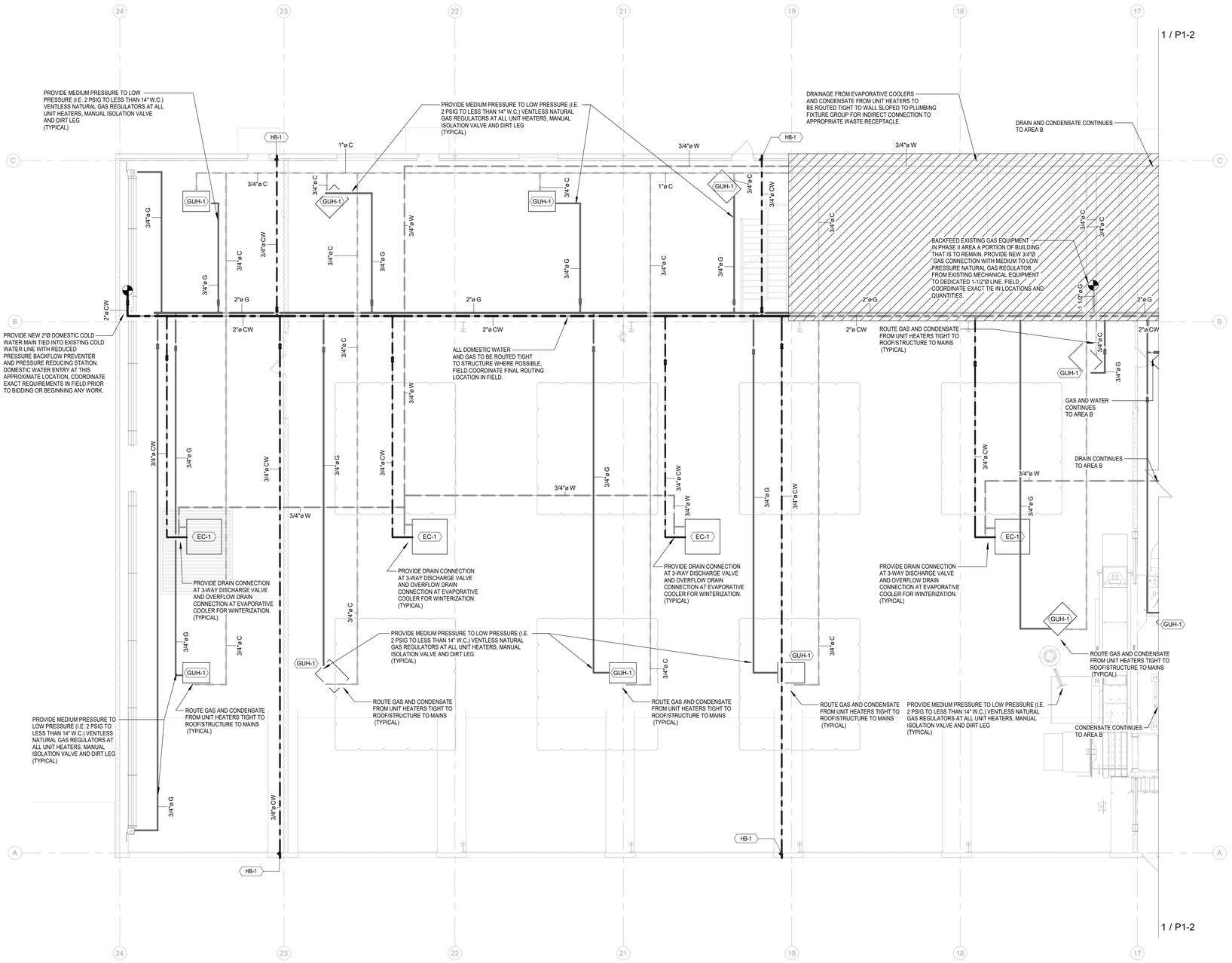
PD1-2A

A B C D

NORTH

Project Team:

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PLUMBING - RENOVATED - AREA A

1 / P1-1 1/8" = 1'-0"

NORTH

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2. PIPE DIMENSIONS DO NOT REFLECT ADDITIONAL DIMENSIONS FOR INSULATION. ALL PIPING SHALL BE INSULATED PER 2021 IECC CODE REQUIREMENTS.

3. CONDENSING WATER HEATER, GAS FURNACE, AND BOILER VENT MATERIAL SHALL COMPLY WITH MANUFACTURER'S LISTED AND APPROVED MATERIALS. PVC SHALL NOT BE USED FOR FLUE/COMBUSTION AIR VENTING MATERIAL. ENGINEERS PREFERRED MATERIAL IS PRESSURE RATED, DOUBLE WALL, GASKETED, 316 STAINLESS STEEL CONDENSING FLUE VENTING MATERIAL. RECOMMENDED MANUFACTURER'S SELKIRK OR JERMIAS.

4. ROUTE CONDENSATE FROM CONDENSING MECHANICAL EQUIPMENT TO CONDENSATE NEUTRALIZATION KITS. CONDENSATE FROM NEUTRALIZATION KITS SHALL BE DISCHARGED INDIRECTLY THROUGH AIR GAP TO NEAREST FLOOR DRAIN. PIPING FROM CONDENSING GAS EQUIPMENT SHALL BE SLOPED TO TERMINATION LOCATION, IF CONDENSATE DRAIN PIPING CANNOT BE ACHIEVED WITH GRAVITY PROVIDE LITTLE GIANT CONDENSATE LIFT PUMP EQUIVALENT TO HT-VCI, MODEL, 1/3 HORSEPOWER, 115V/1PH/60HZ. IT IS ANTICIPATED THAT THERE MAY BE UP TO FOUR (4) OR MORE LIFT PUMPS LOCATED AT STRATEGIC LOCATIONS FOR CONDENSATE REMOVAL TO AVOID CONFLICT WITH INDUSTRIAL EQUIPMENT. COORDINATE QUANTITY AND LOCATIONS WITH ELECTRICAL CONTRACTOR PRIOR TO BIDDING OR BEGINNING CONSTRUCTION.

5. ALL PLUMBING FIXTURES WITH QUICK CLOSING VALVES ON DOMESTIC COLD/HOT WATER SHALL BE PROVIDED WITH WATER HAMMER ARRESTOR.

6. PROVIDE ISOLATION VALVES AT GROUP RESTROOMS TO ALLOW FOR TOTAL ISOLATION OF THE ENTIRE RESTROOM GROUP FROM THE REST OF THE DOMESTIC COLD, HOT AND HOT RE-CIRCULATION SYSTEMS.

7. ALL PLUMBING FIXTURES SHALL BE VENTED BY PLUMBING CONTRACTOR PER INTERNATIONAL PLUMBING CODE REQUIREMENTS.

8. CONTRACTOR SHALL CLEAN AND SERVICE ALL EXISTING EQUIPMENT/PLUMBING FIXTURES TO REMAIN. CONTRACTOR SHALL VERIFY ALL EQUIPMENT/PLUMBING FIXTURES ARE PROPERLY FUNCTIONING PRIOR TO RE-USING EQUIPMENT/FIXTURES. CONTRACTOR TO ENSURE THAT FINAL PLUMBING SYSTEM WILL OPERATE AS INTENDED ON PROVIDED DRAWINGS.

9. NEW GAS METER TO BE PROVIDED. GAS METER TO BE MEDIUM PRESSURE (I.E. 2 PSIG) GAS METER LOAD IS 7,375 MBH (~8,342 CFH). LONGEST EQUIVALENT LINE LENGTH OF PIPING IS 520 FEET. GENERAL CONTRACTOR SHALL VERIFY THAT INSTALLED GAS METER CAN ACCOMMODATE GAS LOAD OF 8,342 CFH. REFERENCE GAS PIPE SIZING CALCULATIONS TABLE ON P2-1 FOR MORE INFORMATION. ALL GAS EQUIPMENT SHALL BE PROVIDED WITH MEDIUM PRESSURE TO LOW PRESSURE (2 PSIG TO LESS THAN 14" W.C.) VENTLESS NATURAL GAS REGULATORS TO REGULATE PRESSURE DELIVERED AT INLET OF GAS EQUIPMENT TO GAS EQUIPMENT MANUFACTURER RECOMMENDED PRESSURE.

12. PLUMBING FIXTURE MANUFACTURERS AS SCHEDULED ON PLUMBING DRAWINGS ARE SUGGESTED MANUFACTURER'S AND MODELS. UNLESS NOTED OTHERWISE DUE TO OWNER/CLIENT REQUIREMENTS AND PREFERENCES. PLUMBING CONTRACTOR CAN SUBMIT EQUIVALENT FIXTURES FROM MANUFACTURERS THAT DIFFER FROM SCHEDULED PLUMBING FIXTURES. ALTERNATE MANUFACTURERS OF PLUMBING FIXTURES WILL BE REVIEWED FOR EQUIVALENCE OF PERFORMANCE AND FUNCTIONALITY BY ENGINEER. REFERENCE SUBSTITUTIONS SECTION ON COVER SHEET.

13. ALL EXTERIOR METALLIC NATURAL GAS PIPING ABOVE GRADE SHALL BE TREATED WITH CORROSIVE INHIBITOR COATING. COATING SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATION SO THAT COATING MAINTAINS INTEGRITY OF GAS PIPING. COATING SHALL BE UV RESISTANT.

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15. DISINFECTION OF DOMESTIC WATER PIPING SYSTEM. PRIOR TO STARTING WORK, VERIFY SYSTEM IS COMPLETE, FLUSHED, AND CLEAN. INJECT DISINFECTANT, FREE CHLORINE IN LIQUID, POWDER, OR GAS FORM THROUGHOUT SYSTEM TO OBTAIN 50 TO 80 mg/l RESIDUAL. MAINTAIN DISINFECTANT IN SYSTEM FOR 24 HOURS. IF FINAL DISINFECTANT RESIDUAL TESTS LESS THAN 25 mg/L, REPEAT TREATMENT. FLUSH DISINFECTANT FROM SYSTEM UNTIL RESIDUAL EQUAL TO THAT OF INCOMING WATER OR 1.0 mg/L. TAKE SAMPLES NO SOONER THAN 24 HOURS AFTER FLUSHING, FROM 10 PERCENT OF OUTLETS AND FROM WATER ENTRY, AND ANALYZE SAMPLES IN ACCORDANCE WITH AWWA C651. WATER SAMPLE REPORTS SHALL BE PROVIDED TO OWNER AND ENGINEER FOR RECORD.

16. ALL PLUMBING PIPING SHALL BE TIGHT TO STRUCTURE WHERE POSSIBLE. COORDINATE FINAL ROUTING LOCATION WITH STRUCTURE IN FIELD. PRIOR TO INSTALLATION PLUMBING CONTRACTOR TO REVIEW INDUSTRIAL EQUIPMENT DRAWINGS FOR ANY CONFLICTS. ROUTE OF PLUMBING PIPING SHALL BE ADJUSTED AS NECESSARY TO PREVENT CONFLICT. MAIN PIPING FOR DRAIN AND CONDENSATE SHALL BE PARALLEL TO GRIDLINE C RACKED TIGHT ALONG WALL SLOPED TO PLUMBING FIXTURE GROUPS. DRAIN AND CONDENSATE PIPING SHALL TERMINATE AT AIR GAP/BREAK AT APPROPRIATE RECEPTACLE. COORDINATE EXACT TERMINATION LOCATIONS IN FIELD PRIOR TO BIDDING OR BEGINNING ANY WORK.

17. PLUMBING CONTRACTOR SHALL FIELD LOCATE ALL EXTERIOR FREEZE PROOF HOSE BIBBS AND BACK FEED WITH NEW 3/4"Ø DOMESTIC COLD WATER LINE WITH DEDICATED ISOLATION VALVE PRIOR TO BIDDING OR BEGINNING ANY WORK.

18. PLUMBING CONTRACTOR TO PROVIDE ADD ALTERNATE PRICING FOR EXISTING EVAPORATIVE COOLERS TO REMAIN (I.E. IF NEW EVAPORATIVE COOLERS ARE NOT PROVIDED), DOMESTIC WATER TO BE BACKFED FROM NEW DOMESTIC MAIN COLD WATER LINE DISTRIBUTED THROUGH BUILDING.

KEYPLAN

A	B	C	D

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PLUMBING - RENOVATED - AREA A

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

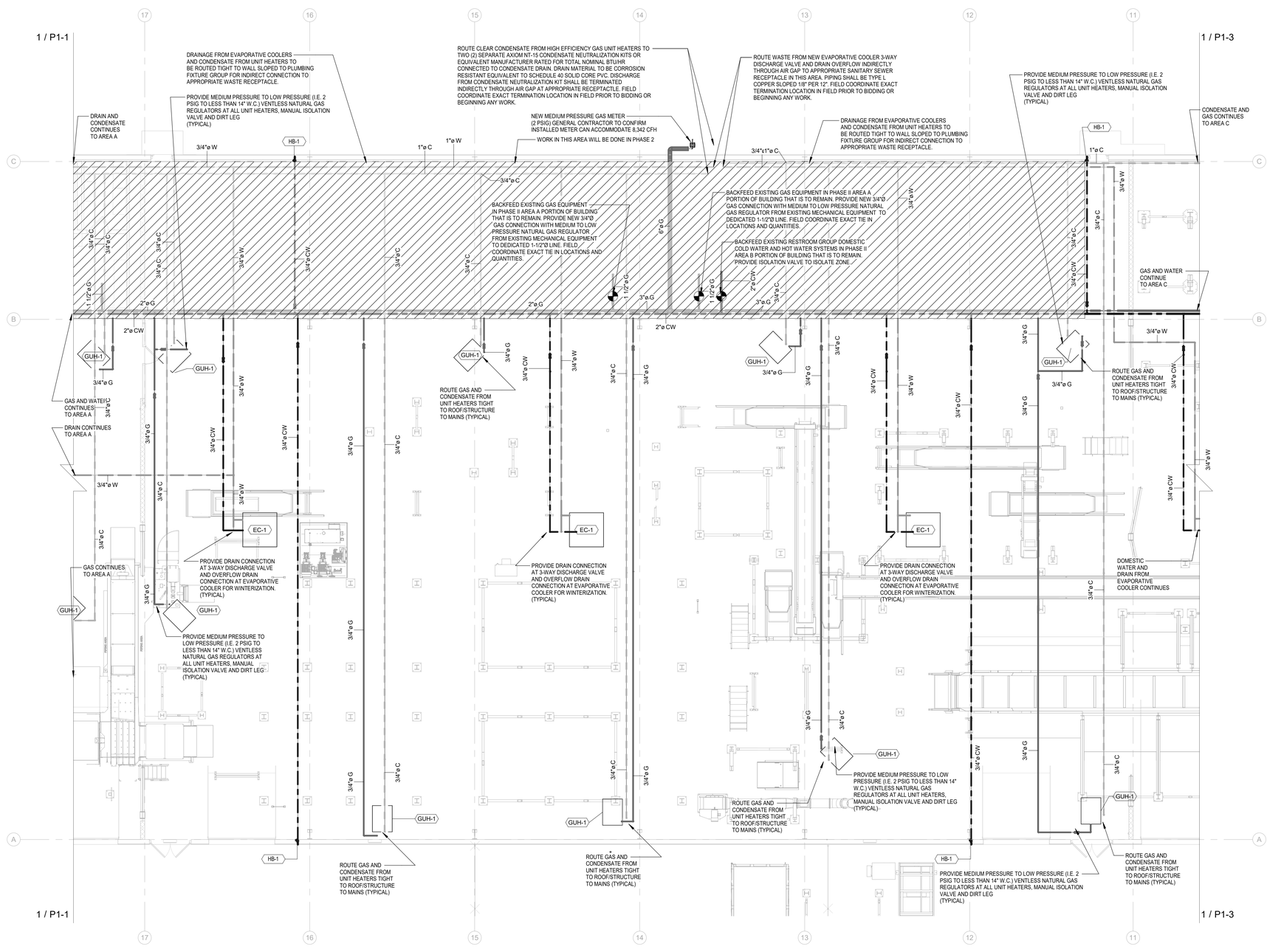
PROJECT #: 25034

SHEET #:

P1-1

Project Team:

Print Date: 2/3/2026 11:40:26 AM



PLUMBING - RENOVATED - AREA B

1 P1-2 1/8" = 1'-0"

NORTH

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KEYPLAN

A	B	C	D

NORTH

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BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

PLUMBING - RENOVATED - AREA B

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

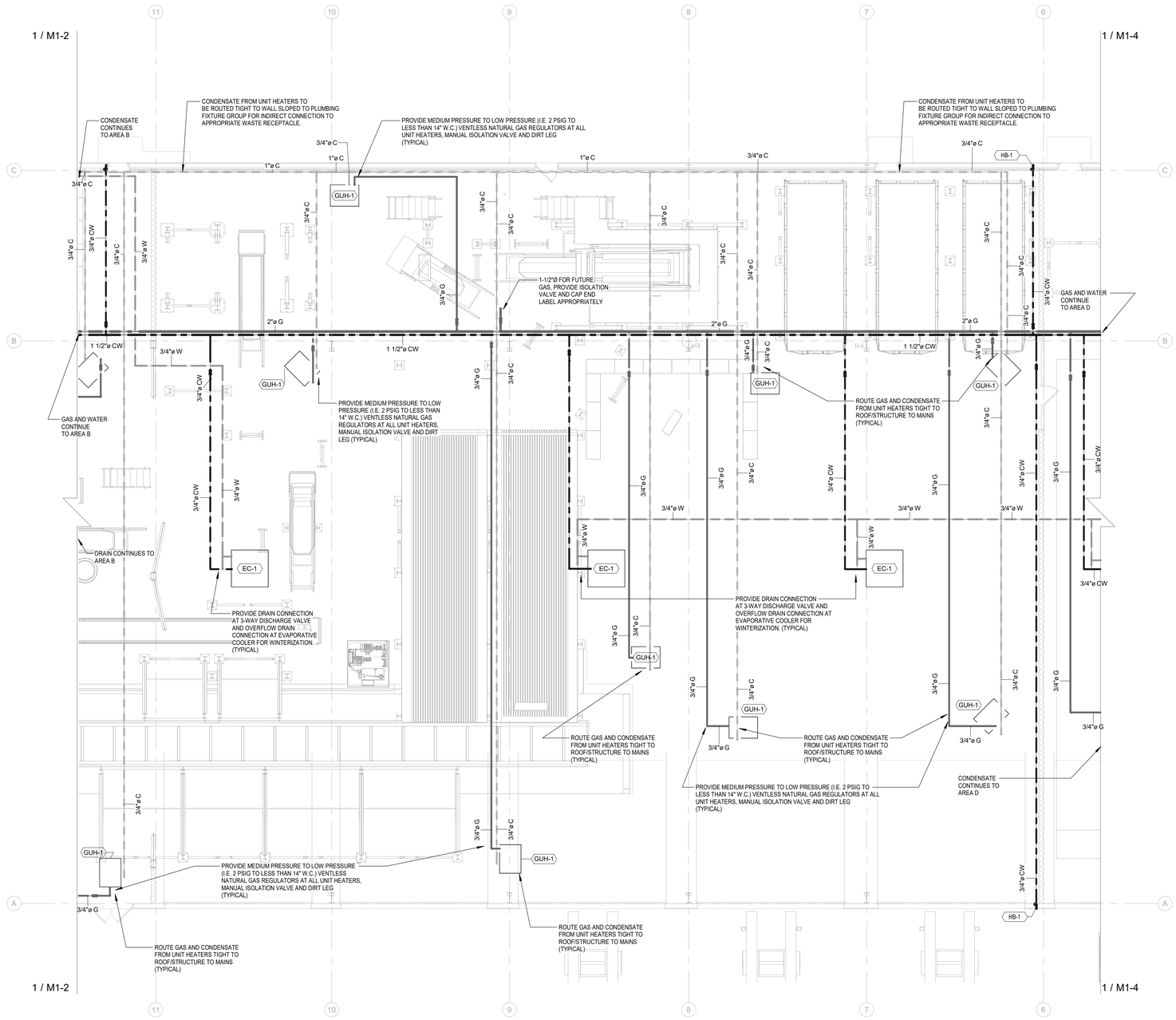
PROJECT #: 25034

SHEET #:

P1-2

Project Team:

Print Date: 2/3/2026 11:40:31 AM



PLUMBING - RENOVATED - AREA C

NORTH 1 P1-3 1/8" = 1'-0"

PLUMBING GENERAL NOTES:

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PLUMBING - RENOVATED - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

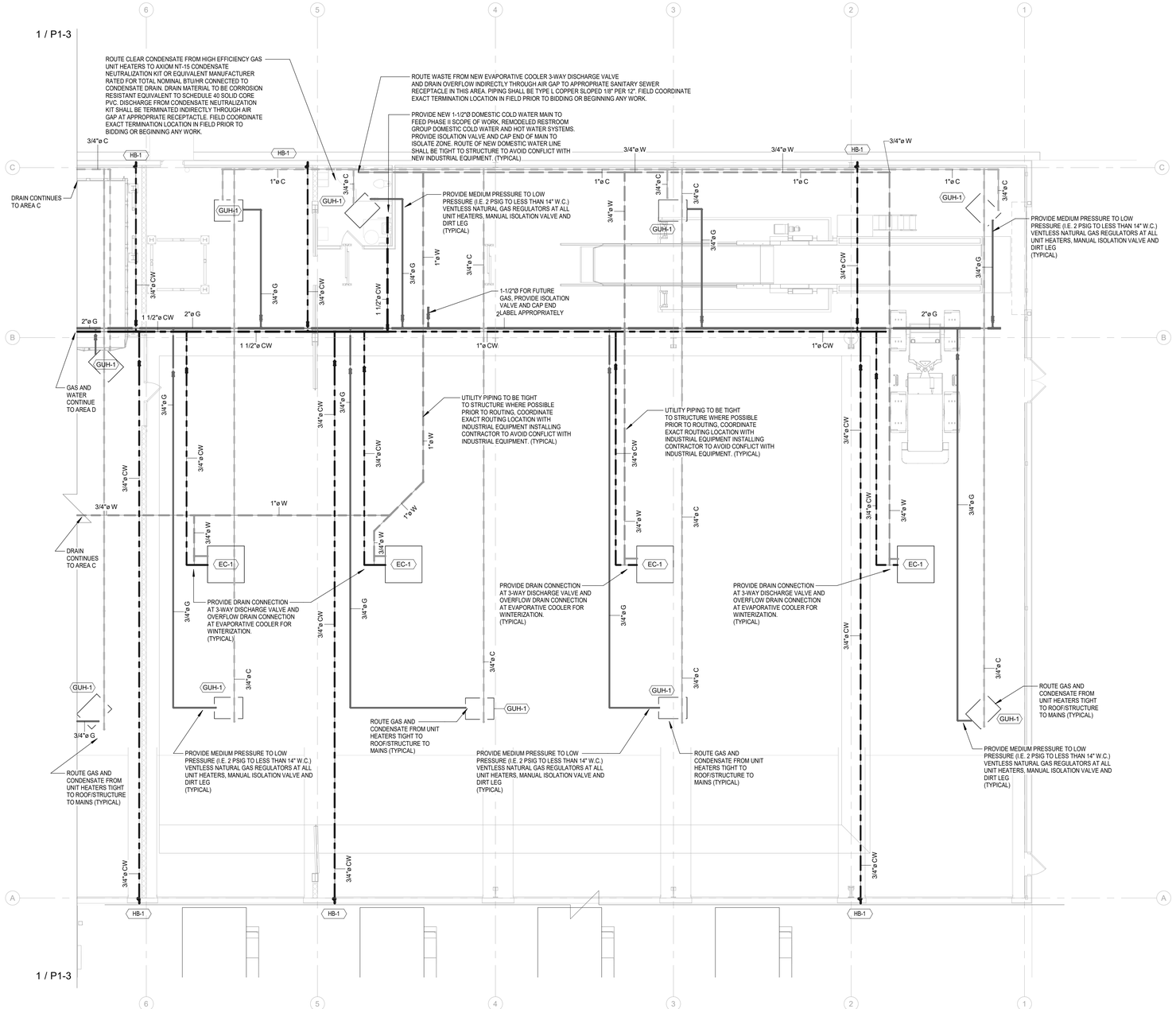
DATE: 02/02/2026

PROJECT #: 25034

SHEET #: P1-3

Project Team:

Print Date: 2/3/2026 11:40:36 AM



PLUMBING - RENOVATED - AREA D

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PLUMBING - RENOVATED - AREA D

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

P1-4

Project Team:

Print Date: 2/3/2026 11:40:39 AM

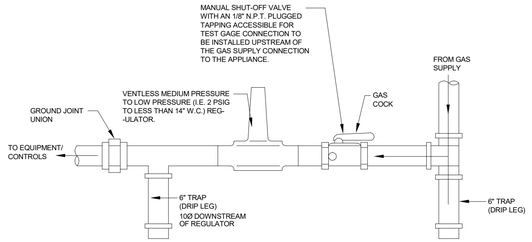
PLUMBING FIXTURE SCHEDULE

TYPE MARK	FIXTURE DESCRIPTION	MANUFACTURER	MODEL #	TRIM	PIPE CONNECTIONS				OPTIONS/ ACCESSORIES
					S/W	VENT	CW	HW	
HB-1	INTERIOR HOSE BIBB	WOODFORD	MODEL 24		-	-	3/4"	-	PROVIDE INTERIOR WALL HYDRANT, COORDINATE FINAL LOCATION IN FIELD WITH EXISTING STRUCTURE. PROVIDE WITH INTEGRAL ANTI-SIPHON VACUUM BREAKER, ISOLATION VALVE, METAL HANDLE, NICKEL BRONZE OR CHROME FINISH.

GAS PIPE SIZE CALCULATION

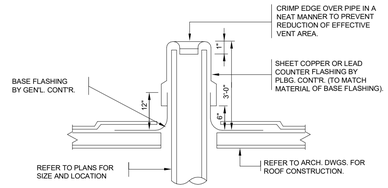
PROJECT: 25-426 GJ MRF — **DATE:1/16/25**

L.L. FEET	BTU/HR TO CFH	QUANTITY	EQUIPMENT #	EQ. MBH	TOTAL MBH	TOT BTU/HR	EQ CFH	TOT EQ CFH
400	884	10	GUH-1 - AREA A	175	1750	1750000	198.0	1979.6
L.L. +30%		9	GUH-1 - AREA B	175	1575	1575000	198.0	1781.7
520		8	GUH-1 - AREA C	175	1400	1400000	198.0	1583.7
		8	GUH-1 - AREA D	175	1400	1400000	198.0	1583.7
		0		0	0	0	0.0	0.0
		1	FUTURE OFFICE AREA A	250	250	250000	282.8	282.8
		1	FUTURE OFFICE AREA B	500	500	500000	565.6	565.6
		1	FUTURE OFFICE AREA C	250	250	250000	282.8	282.8
		1	FUTURE OFFICE AREA D	250	250	250000	282.8	282.8
		0		0	0	0	0.0	0.0
		0		0	0	0	0.0	0.0
					TOTAL MBH	TOTAL BTUH		TOTAL CFH
					7375	7375000		8342.8



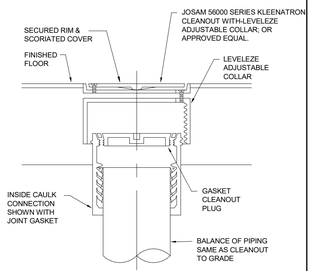
GAS CONNECTION TO EQUIPMENT DETAIL

NOT TO SCALE



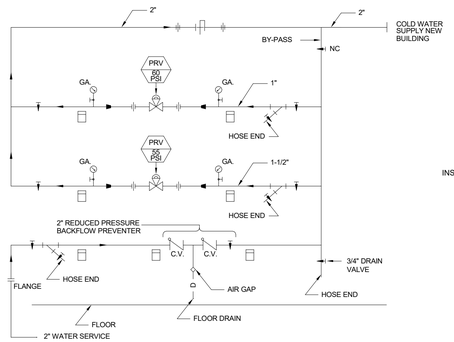
PLUMBING VENT THROUGH FLAT ROOF DETAIL

NOT TO SCALE



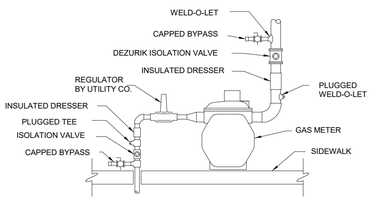
FLOOR CLEANOUT DETAIL

NOT TO SCALE



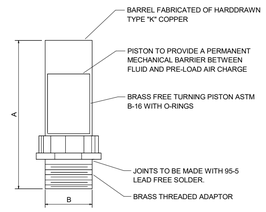
DOMESTIC WATER PRESSURE REDUCING STATION DETAIL

NOT TO SCALE



GAS METER DETAIL

NOT TO SCALE

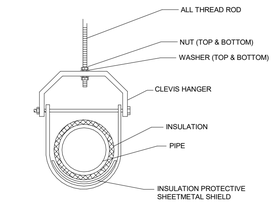


PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

NOTE: SEE WATER RISER DIAGRAMS FOR LOCATIONS OF SHOCK ABSORBERS.

WATER SHOCK ARRESTOR DETAIL

NOT TO SCALE

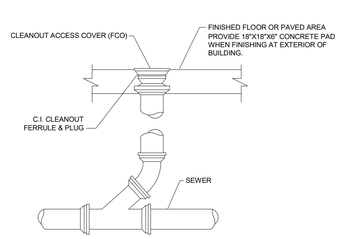


TYPICAL CLEVIS HANGER DETAIL

NOT TO SCALE

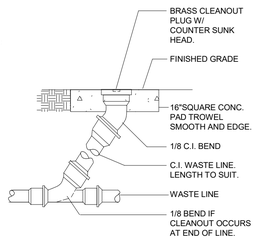
TABLE C403.12.3 MINIMUM PIPE INSULATION THICKNESS

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (INCHES)				
	CONDUCTIVITY (BTU*IN/(HR*FT²*°F))	MEAN RATING TEMPERATURE (°F)	<1	1 TO < 1-1/2	1-1/2 TO < 4	4 TO < 8	≥8
>350	.32-.34	250	4.5	5.0	5.0	5.0	5.0
251-350	.29-.32	200	3.0	4.0	4.5	4.5	4.5
201-250	.27-.3	150	2.5	2.5	2.5	3.0	3.0
141-200	.25-.29	125	1.5	1.5	2.0	2.0	2.0
105-140	.21-.28	100	1.0	1.0	1.5	1.5	1.5
40-60	.21-.27	75	0.5	0.5	1.0	1.0	1.0
<40	.20-.26	50	0.5	1.0	1.0	1.0	1.5



CLEANOUT DETAIL

NOT TO SCALE



CLEANOUT TO GRADE

NOT TO SCALE

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PLUMBING DETAILS

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

P2-1

Project Team:

Print Date: 2/3/2026 11:40:40 AM

FIRE ALARM EQUIPMENT LEGEND

FACP	FIRE ALARM CONTROL PANEL
F	FIRE ALARM PULL STATION
	FIRE ALARM HORN
	FIRE ALARM STROBE
	FIRE ALARM HORN/STROBE
	CEILING MOUNTED SPEAKER
D	DUCT DETECTOR
RL	REMOTE LAMP
S P	SMOKE DETECTOR - PHOTOELECTRIC
H 135°	135° STANDARD HEAT DETECTOR
PIR	PIR DETECTOR
DH	DOOR HOLD - MAGNETIC HOLD
FS	FLOW SWITCH
TS	TAMPER SWITCH

COMMUNICATION LEGEND

	CLOCK ONLY
	CLOCK / PA SPEAKER WALL MOUNTED
S	ROUND CEILING MOUNTED SPEAKER
S	SQUARE SPEAKER
C	INTERCOM PUSH TO CALL SWITCH
WAP	WIRELESS ACCESS POINT ABOVE THE CEILING
PROJECTOR	ABOVE THE CEILING PROJECTOR CONNECTION
HDMI	WALL MOUNTED HDMI
	PLAIN DATA OUTLET
80"	PLAIN DATA OUTLET WITH MOUNTING HEIGHT
	COMBINATION DATA/TELEPHONE
	FLOOR MOUNTED COMBINATION DATA/TELEPHONE
	CEILING MOUNTED COMBINATION DATA/TELEPHONE
	TELEVISION OUTLET

SECURITY SYSTEM LEGEND

	SECURITY CAMERA
HC	ADA DOOR OPERATOR PUSH BUTTON
DS	ELECTRIC DOOR STRIKE
CR	CARD READER FOR DOOR OPERATOR

LIGHTING LEGEND

NOTES:

SYMBOLS SHOWN ARE STANDARD. VARIATION AND/OR COMBINATIONS MAY BE USED ON THE PLANS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS; HOWEVER, WHEREVER THE SYMBOL ON THE PROJECT DRAWINGS OCCUR, THE ITEM SHALL BE PROVIDED AND INSTALLED.

VARIATION AND/OR COMBINATION MAY BE USED ON THE PLANS.

A NUMBER NEXT TO A RECEPTACLE OR DEVICE INDICATES A CIRCUIT NUMBER.

AN UPPER CASE LETTER NEXT TO A SWITCH INDICATES THE FUNCTION OF THE SWITCH. A LOWER CASE LETTER INDICATES THE SWITCH CIRCUIT.

AN UPPER CASE LETTER NEXT TO A LIGHT FIXTURE INDICATES THE TYPE OF FIXTURE. REFER TO THE LUMINAIRE SCHEDULE FOR FIXTURE SPECIFICATIONS. A LOWER CASE LETTER NEXT TO A LIGHT CORRESPONDS TO THE SWITCH DESIGNATION.

SWITCHES

$	SINGLE POLE SWITCH
$2	TWO POLE SWITCH
$3	THREE-WAY SWITCH
$4	FOUR-WAY SWITCH
$D	DIMMER SWITCH
$3D	3 WAY DIMMER SWITCH - (4D INDICATES A 4WAY DIMMER)
$DR	DOOR ACTIVATED SWITCH
$MA	WALL MOUNTED DUAL TECHNOLOGY MANUAL ON / AUTO OFF VACANCY SENSOR SWITCH
$LV	LOW VOLTAGE LIGHT SWITCH
$TO	MANUAL MOTOR STARTER
$P	PILOT LIGHT SWITCH
$DS	AUTO ON / AUTO OFF LIGHT SWITCH
$MO	DUAL TECHNOLOGY MOTION / OCCUPANCY SENSOR LIGHT SWITCH
$D MA	MANUAL ON / AUTO OFF DIMMING LIGHT SWITCH
$K	KEY OPERATED LIGHT SWITCH
$T	MANUAL ON - TIMED OFF LIGHT SWITCH
D	CEILING MOUNTED DAYLIGHT SENSOR
MA MA	CEILING MOUNTED DUAL TECHNOLOGY MANUAL ON / AUTO OFF VACANCY SENSOR
$SC	SCENE CONTROL STATION
$MS	UNIT LIGHTING MANAGEMENT CONTROL STATION,

LIGHT FIXTURES

A	1'x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
A	2'x4' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
A	2'x2' LED TROFFER OR DIRECT/INDIRECT TYPE FIXTURE GRID, FLANGE OR SURFACE MOUNTED
	OPEN STRIP FIXTURE
	WALL BRACKET LINEAR FIXTURE
A	WALL MOUNTED SCONCE LIGHT FIXTURE
A	RECESSED DOWNLIGHT CAN FIXTURE
A	SURFACE CEILING OR PENDANT MOUNTED FIXTURE
EX2	DOUBLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
EX1	SINGLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
EM	WALL MOUNTED EMERGENCY LIGHT
EMR	EMERGENCY EXTERIOR EGRESS FIXTURE

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK TO COMPLY WITH LATEST EDITION OF NEC, IECC AND ALL APPLICABLE GOVERNING CODES.
2. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.
3. ELECTRIC UTILITY TO ADVISE OWNER AND/OR THE ELECTRICAL ENGINEER PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER.

WIRING:

1. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWING, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.
2. ALL CONDUITS AND CONVEYANCES SHALL BE CONCEALED. IN THE EVENT THAT A NEW DEVICE IS BEING INSTALLED IN AN EXISTING DRYWALL PARTITION, PROVIDE A CUT IN TYPE BOX AND FISH FLEXIBLE CONDUIT DOWN INSIDE THE WALL FROM ABOVE THE CEILING AND REPAIR THE DRYWALL AROUND THE CONDUIT. TRANSITION TO EMT ONCE ABOVE THE CEILING.
3. SIZES OF WIRE AND CABLES ARE BASED UPON COPPER CONDUCTORS, UNLESS OTHERWISE INDICATED. ALL CIRCUITS SHALL CONTAIN (2) #12 AWG WITH (1) #12 GND IN 1/2" CONDUIT UNLESS NOTED OTHERWISE.
4. ALL BRANCH CIRCUITS WITH HOME RUNS OVER 50 FEET, WILL BE SIZED ONE SIZE LARGER.
5. ALL PENETRATIONS IN OR THROUGH FIRE RATED PARTITIONS SHALL BE FIRE STOPPED IN SUCH A WAY THAT THE PENETRATION MATCHES THE FIRE RATING OF THE WALL.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN THE APPROPRIATE DISCIPLINES AND CONTRACTORS.
7. COORDINATE ALL DEVICE, FIXTURE AND HARDWARE COLOR SELECTIONS WITH THE ARCHITECT PRIOR TO MAKING SHOP DRAWING SUBMITTALS.
8. COORDINATE THE MOUNTING HEIGHTS OF ALL RECEPTACLES MOUNTED ABOVE COUNTERS, CASEWORK AND APPLIANCE RECEPTACLES WITH ARCHITECTURAL ELEVATIONS.
9. BRANCH CIRCUIT AND SPECIAL SYSTEMS WIRING FOR DEVICES ON WALLS IN FINISHED AREAS WHICH CANNOT BE CONCEALED SHALL BE INSTALLED IN SURFACE MOUNTED RACEWAY.
10. ALL EXPOSED CONDUITS, BOXES, ETC. IN ROOMS TO BE PAINTED SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE. EXPOSED CONDUITS, BOXES, ETC. IN ROOMS WHICH ARE NOT PAINTED MAY BE LEFT UN-PAINTED. EXPOSED CONDUIT, BOXES, ETC. ON THE EXTERIOR OF BUILDINGS SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE AS CLOSELY AS POSSIBLE.
11. THE CONTRACTOR IS RESPONSIBLE FOR PATCHING, PAINTING, REPAIRING OR REPLACEMENT OF ALL WALLS, CEILING OR OTHER BUILDING ELEMENTS WHICH ARE DISTURBED AS PART OF THE DEMOLITION AND/OR INSTALLATION OF ELECTRICAL WORK.
12. PROVIDE ELECTRICAL CONNECTION TO ALL FIRE, SMOKE, AND FIRE / SMOKE DAMPERS INCLUDING POWER AND FIRE ALARM. VERIFY EXACT SIZE AND FINAL LOCATION OF ALL DAMPERS WITH THE MECHANICAL CONTRACTOR. ALL ROOFTOP UNITS RATED AT MORE THAN 2000 CFM WILL BE OUTFITTED WITH A DUCT DETECTOR IN THE RETURN DUCT. ALL ROOFTOP UNITS RATED AT MORE THAN 15000 CFM WILL BE OUTFITTED WITH A DUCT DETECTOR IN BOTH THE SUPPLY AND RETURN DUCT AT ROOFTOP LEVEL AND IN THE RETURN DUCT AT EVERY LEVEL THAT IS SERVED. ELECTRICAL CONTRACTOR WILL PROVIDE A REMOTE TEST STATION AND ALL WIRING NECESSARY TO COMPLETE INSTALLATION.
13. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH PLUMBING AND HVAC EQUIPMENT AND OWNER/GENERAL CONTRACTOR FURNISHED EQUIPMENT.

LUMINAIRES:

1. COORDINATE THE LOCATION OF ALL LIGHTING EQUIPMENT INCLUDING BUT NOT LIMITED TO THE LUMINAIRES, SWITCHES WITH THE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ALL OTHER TRADES AS REQUIRED. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONAL LOCATION OF LIGHT FIXTURES.
2. LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE AND SHALL NOT BE SUPPORTED FROM THE T-BAR CEILING GRID.
3. THE ELECTRICAL CONTRACTOR IS TO CONFIRM THE LIGHT FIXTURES ORDERED WILL BE COMPATIBLE WITH THE CEILING TYPES AS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING THE FIXTURES.
4. VERIFY LUMINAIRE MOUNTING REQUIREMENTS AND OVERALL HEIGHT OF ALL PENDANT MOUNTED FIXTURES PRIOR TO ORDERING.
5. ALL LIGHT FIXTURES NEED TO BE COMPATIBLE WITH THE SWITCHES AND CONTROLS BEING PROVIDED.
6. THE LIGHTING PACKAGE SHALL BE APPROVED BY BOTH THE ARCHITECT AND ENGINEER AS APPROVED EQUAL BEFORE BID. NO LIGHT FIXTURE SHALL BE ORDERED UNTIL THE LIGHT FIXTURE SUBMITTAL PACKAGE HAS BEEN APPROVED IN WRITING BY THE ARCHITECT, GENERAL CONTRACTOR AND ELECTRICAL ENGINEER.
7. COORDINATE LUMINAIRE MOUNTING REQUIREMENTS PRIOR TO PLACING ORDER.

EMERGENCY AND EXIT LIGHTS:

1. PROVIDE EMERGENCY AND EXIT SIGNS AS PER ALL GOVERNING CODES.
2. EXIT SIGNS CONNECTED TO A REMOTE EMERGENCY HEAD REQUIRE EXTRA BATTERY CAPACITY TO OPERATE THE REMOTELY LOCATED EMERGENCY HEAD FOR EGRESS AWAY FROM THE BUILDING.
3. REFER TO THE PLANS FOR THE NUMBER OF FACES REQUIRED AT EACH EXIT. FIELD ADJUST THE LOCATION OF THE EXIT SIGNS AND NUMBER OF FACES FOR THE BEST VISIBILITY POSSIBLE.
4. ALL LIGHTING FIXTURES DENOTED WITH "EM" SHALL BE PROVIDED WITH AN ENGINEER APPROVED EMERGENCY LED DRIVER OR INVERTER TO OPERATE THE FIXTURE IN AN EMERGENCY MODE TO MEET ALL CURRENT GOVERNING CODES AND WILL BE CIRCUITED TO THE UNSWITCHED SIDE OF THE LIGHTING CIRCUIT.
5. ALL LIGHT FIXTURES DESIGNATED WITH "EM" OR SPECIFIED WITH AN EMERGENCY FUNCTION SHALL BE PROVIDE WITH ONE OF THE FOLLOWING.
   a. INTEGRAL TEST SWITCH
   b. REMOTE INFRARED HANDHELD DEVICE
   c. INTEGRAL ELECTRONIC DEVICE THAT AUTOMATICALLY PERFORMS CODE REQUIRED TESTS.
6. ALL STAIRWELLS AND PATHS OF EGRESS TO THE EXTERIOR DOORS AND THE EXTERIOR PATH OF EGRESS AWAY FROM THE BUILDING SHALL RECEIVE EMERGENCY LIGHTING PER CODE.

ELECTRICAL EQUIPMENT LEGEND

	BRANCH CIRCUIT PANELBOARD
	TELEPHONE TERMINAL BOARD
	ELECTRIC MOTOR
F	FUSED SAFETY SWITCH / DISCONNECT COMBINATION
	MOTOR STARTER
	CONTACTOR
LA-7	CIRCUITRY HOMERUN: PANEL LA - CIR. #7
	CONDUIT OR WIRE CONCEALED IN WALL/CLG. (SOLID LINE TYPE)
	CONDUIT OR WIRE UNDERFLOOR/UNDERGND. (CENTER LINE TYPE)

MAIN DISTRIBUTION GEAR

	CIRCUIT BREAKER IN A PANEL BOARD
	PAD MOUNTED UTILITY TRANSFORMER
100 A 2 POLE FUSED DISCONNECT	FUSED DISCONNECT 100A = AMP RATING 2P = NUMBER OF POLES
M	ELECTRICAL METER SHOWN ON ONE-LINE DIAGRAMS
PP1 225A MCB 120/208V 3PH, 4W / PP1 225A MLO 120/208V 3PH, 4W	ELECTRICAL POWER PANEL WITH MAIN LUG OR MAIN BREAKER PP1= PANEL NAME 225A MLO = MAIN LUG OR BREAKER SIZE 120/208V = PANEL VOLTAGE 3PH, 4 WIRE = PANEL PHASE, DISTRIBUTION TYPE

ELECTRICAL DEVICE LEGEND

J	CEILING JUNCTION BOX - SURFACE/FLUSH
J	WALL JUNCTION BOX - SURFACE/FLUSH
	DUPLEX RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SPLIT WIRED DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	FLOOR MOUNTED FOURPLEX RECEPTACLE
	APPLIANCE RECEPTACLE - 3 WIRE
	DUPLEX RECEPTACLE
	FOURPLEX RECEPTACLE

ABBREVIATIONS PERTAIN TO ALL DUPLEX AND FOURPLEX RECEPTACLES; ABBREVIATIONS MAY APPEAR IN DIFFERENT COMBINATIONS.

AC	ABOVE COUNTER
AC GF	ABOVE COUNTER - GROUND FAULT CIRCUIT INTERRUPTER
AC USB	ABOVE COUNTER WITH USB PORT
AF	ARC FAULT PROTECTED
AF USB	ARC FAULT PROTECTED WITH USB PORT
AF GF	ARC FAULT WITH GROUND FAULT CIRCUIT INTERRUPTER
D	DEDICATED RECEPTACLE
D USB	DEDICATED RECEPTACLE WITH USB PORT
EM	RECEPTACLE CIRCUITED TO THE EMERGENCY PANEL WITH RED COVER PLATE
GF	GROUND FAULT CIRCUIT INTERRUPTER
GF WP	WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPTER
PL	PLUG LOAD
72" S	GENERAL PURPOSE WITH MOUNTING HEIGHT. SWITCHED CONTROLLED
D	ELECTRIC HAND DRYER
T	THERMOSTAT
	OPEN/CLOSE/STOP PUSH BUTTON
1	DRAWING KEY NOTES
ROOM 100	ROOM NAME AND NUMBER DESIGNATION

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
E0-1	COVER SHEET
ED1-1	LIGHTING - DEMO - AREA A
ED1-2	LIGHTING - DEMO - AREA B
ED1-3	LIGHTING - DEMO - AREA C
ED1-4	LIGHTING - DEMO - AREA D
ED2-1	ELECTRICAL - DEMO - AREA A
ED2-2	ELECTRICAL - DEMO - AREA B
ED2-3	ELECTRICAL - DEMO - AREA C
ED2-4	ELECTRICAL - DEMO - AREA D
E1-1	LIGHTING - RENOVATED - AREA A
E1-2	LIGHTING - RENOVATED - AREA B
E1-3	LIGHTING - RENOVATED - AREA C
E1-4	LIGHTING - RENOVATED - AREA D
E2-1	ELECTRICAL - RENOVATED - AREA A
E2-2	ELECTRICAL - RENOVATED - AREA B
E2-3	ELECTRICAL - RENOVATED - AREA C
E2-4	ELECTRICAL - RENOVATED - AREA D
E3-1	ELECTRICAL SCHEDULES
E3-2	ELECTRICAL SCHEDULES
E3-3	ELECTRICAL SCHEDULES
E3-4	ELECTRICAL DETAILS

RESPONSIBLE DIVISION:

UNLESS OTHERWISE INDICATED ALL HEATING, VENTILATING, AIR CONDITIONING, PLUMBING, AND OTHER MECHANICAL EQUIPMENT, MOTORS, AND CONTROLS SHALL BE FURNISHED, SET IN PLACE AND WIRED AS FOLLOWS:

ITEM	FURNISHED	SET	POWER WIRED	CONTROL WIRED
EQUIPMENT	23	23	26	--
COMBINATION MAGNETIC MOTOR STARTERS, MAGNETIC MOTOR STARTERS, VFD'S AND CONTACTORS	23(1)	26	26(2)	23
FUSED AND UNFUSED DISCONNECT SWITCHES; THERMAL OVERLOAD SWITCHES AND HEATERS, MANUAL MOTOR STARTERS	26	26	26	--
MANUAL-OPERATING AND MULTI-SPEED SWITCHES	23	26	26	26
CONTROLS, RELAYS, TRANSFORMERS	23	23	26	23
THERMOSTATS (LOW VOLTAGE) AND TIME SWITCHES	23	23	26	23
THERMOSTATS (LINE VOLTAGE)	23	23	26	26
TEMPERATURE CONTROL PANELS	23	23	26	23
MOTOR AND SOLENOID VALVES, DAMPER MOTORS, PE & EP SWITCHES	23	23(2)	--	23(2)
PUSH-BUTTON STATIONS AND PILOT LIGHTS	23	23(2)	--	23(2)
HEATING, COOLING, VENTILATION AND AIR CONDITIONING CONTROLS	23	23	26	23
EXHAUST FAN SWITCHES	23	26	26	23(2)

SUBSCRIPT FOOTNOTES:

1. MOTOR STARTER TO INCLUDE CONTROL TRANSFORMER, HOA SWITCH, (1) NO AND (1)NC AUXILIARY CONTACT, AND "ON" AND "OFF" PILOT LIGHTS.
2. IF ITEM IS FOR LINE VOLTAGE, SET IN PLACE AND CONNECT UNDER DIVISION 26. WHERE FACTORY MOUNTED ON EQUIPMENT OR ATTACHED TO PIPING OR DUCTS AND USING LINE VOLTAGE FURNISH AND SET UNDER DIVISION 23, CONNECT UNDER DIVISION 26.

ABBREVIATIONS:

44"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTERS
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
AP	ACCESS PANEL OR DOOR
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO / VIDEO
AVG	AVERAGE
AWG	AMERICAN WIRE GAGE
BAS	BUILDING AUTOMATION SYSTEM
BB	BASEBOARD
BD	BACK DRAFT DAMPER
BFP	BACK FLOW PREVENTOR
BL	BOILER
BLDG	BUILDING
BLW	BELOW
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
C	CHILLER
CAFCI	COMBINATION ARC FAULT CIRCUIT INTERRUPTERS
CAP	CAPACITY
CB	CIRCUIT BREAKER
CBV	CIRCUIT BALANCING VALVE
CCT	CORRELATED COLOR TEMPERATURE
CKT	CIRCUIT
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE
CONN	CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
CRI	COLOR RENDERING INDEX
CT	COOLING TOWER
CT	CURRENT TRANSFORMER
CU	CONDENSING UNIT
CU	COPPER
CUH	CABINET UNIT HEATER
CVB	CONSTANT VOLUME BOX
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGRAM
DIFF	DIFFERENTIAL
DISCH	DISCHARGE
DIV	DIVISION
DN	DOWN
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
(E)	EXISTING
EA	EXHAUST AIR GRILLE/REGISTER
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ECCENTRIC
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EM	EMERGENCY FUNCTION
ENT	ENTERING
EMT	ELECTRIC METALLIC TUBE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	END SWITCH
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EX	EXHAUST
EXPAN	EXPANSION
EXT	EXTERNAL
F	DEGREES FAHRENHEIT
FA	FREE AREA
FC	FAN COIL UNIT
FC	FOOTCANDLE
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FD	FLOOR DRAIN
FIN	FINISHED
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FP	FIRE PROTECTION
FP	FIRE PUMP
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOW SWITCH
FSD	FIRE/SMOKE DAMPER
FT	FEET
FXC	FLEXIBLE CONNECTION
GND	GROUND
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GEC	GROUND ELECTRODE CONDUCTOR
GF	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRS/LB GRAINS PER POUND
H2O	WATER
HB	HOSE BIBB
HD	HEAD (SEE SCHEDULES)
HP	HEAT PUMP
HP	HORSEPOWER
HR	HOUR
HT	HEIGHT
HTR	HEATER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IN	INCHES
INV	INVERT
JBOX	JUNCTION BOX
K	KELVIN
KW	KILOWATT
KVA	KILO VOLT - AMPS
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LV	LAVATORY
LB	POUND
LD	LINEAR DIFFUSER
LF	LINEAR FEET
LIN	LINEAR
LIQ	LIQUID
LM	LUMEN
LRA	LOCKED ROTOR AMPS
LV	LOUVER
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MED	MEDIUM
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTD	MOUNTED
MUA	MAKE-UP AIR UNIT
N	NEUTRAL
NC	NORMALLY CLOSED
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NL	NIGHT / SECURITY LIGHT - DO NOT SWITCH
NO	NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OCC	OCCUPIED
OCP	OVER CURRENT PROTECTION
OD	OUTSIDE DIAMETER
OL	OVERLOAD
ORD	OVERFLOW ROOF DRAIN
OZ	OUNCE
PBD	PARALLEL BLADE DAMPER
PD	PRESSURE DROP
PH	PHASE
POS	POSITIVE PRESSURE
POS	POINT OF SALES
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TRANSMITTER
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RA	RETURN AIR GRILLE / REGISTER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REL	RELIEF
REQD	REQUIRED
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RLA	RATED LOAD AMPS
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR GRILLE / REGISTER
SC	SHORT CIRCUIT
SCA	SHORT CIRCUIT AVAILABLE
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SD	SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SH	SENSIBLE HEAT
SH	SHOWER
SP	STATIC PRESSURE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SS	SAFETY SHOWER
STD	STANDARD
STL	STEEL
SYS	SYSTEM
TEMP	TEMPERATURE
TR	TRANSFER GRILLE / REGISTER
TR	TAMPER RESISTANT
TT	TEMPERATURE TRANSMITTER
TTB	TELECOMMUNICATIONS TERMINAL BACKBOARD
TYP	TYPICAL
TX	TRANSFORMER
UC	UNDERCUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UNOCC	UNOCCUPIED
UR	URINAL
V	VOLTS
VA	VOLT AMPERE
VA	VALVE
VAV	VARIABLE AIR VOLUME UNIT
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VOLT	VOLTAGE
VTR	VENT THROUGH ROOF
W	WIDTH
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WC	WATER CLOSET
WG	WATER GAUGE
WP	WEATHERPROOF
WPIU	WEATHERPROOF IN-USE
WSR	WITHSTAND RATING
XFMR	TRANSFORMER

SUBSTITUTIONS:

A. SUBSTITUTIONS: SUBSTITUTION OF SPECIFIED EQUIPMENT WILL BE ALLOWED THROUGH A PRIOR APPROVAL PROCESS INITIATED BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT INTENDED SUBSTITUTION AT LEAST FIVE DAYS PRIOR TO BID FOR APPROVAL FROM ENGINEER. SUBMITTAL SHALL INCLUDE CAPACITIES, DIMENSIONS AND OPERATING INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT. SUBSTITUTION SHALL OCCUR AT NO COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF APPROVED SUBSTITUTION AND SHALL INCUR ALL COSTS ASSOCIATED WITH THE SUBSTITUTION INCLUDING STRUCTURAL MODIFICATIONS, SPACE LAYOUT AND REDESIGN COSTS. SEE ALSO DIVISION I GENERAL REQUIREMENTS.

EXAMINATION OF SITE, DRAWINGS, SPECIFICATIONS:

A. EXAMINE CAREFULLY THE SITE AND CONDITIONS OF THE SITE. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR TO INSTALL A COMPLETE WORKING SYSTEM WITHIN THE SITE CONDITIONS.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND 5 DAYS PRIOR TO BIDDING REPORT ANY ERRORS, OMISSIONS, INCONSISTENCIES, AND CONFLICTS TO THE ENGINEER TO BE REMEDIED IN AN ADDENDUM TO THE PROJECT PRIOR TO BID TIME.

C. DRAWINGS ARE DIAGRAMMATIC AND CATALOG NUMBERS GIVEN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE CAPACITY OF THE EQUIPMENT MEETS THE DRAWING REQUIREMENTS AND SHALL NOT DIMENSION FROM THE MECHANICAL, PLUMBING, OR PIPING DRAWINGS.

D. THE LATEST ADOPTED VERSIONS OF THE INTERNATIONAL BUILDING CODES SHALL BE USED AS REQUIRED. THIS WILL ALSO INCLUDE THE LATEST ADOPTED VERSIONS OF THE MECHANICAL, PLUMBING, AND ENERGY CONSERVATION CODES. ALL METHODS AND MATERIALS REQUIRED BY THESE CODES SHALL BE REQUIRED BY THESE SPECIFICATIONS UNLESS INDICATED OTHERWISE. OTHER APPLICABLE LOCAL CODES AND ORDINANCES SHALL BE AS REQUIRED AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BE KNOWLEDGEABLE OF THESE REQUIREMENTS.

E. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER OF THE MATERIAL BEING INSTALLED, PRINTED COPIES OF THESE RECOMMENDATIONS SHALL BE FURNISHED TO THE ENGINEER PRIOR TO INSTALLATION. INSTALLATION OF THE ITEM WILL NOT BE ALLOWED TO PROCEED UNTIL THE RECOMMENDATIONS ARE RECEIVED. FAILURE TO FURNISH THESE RECOMMENDATIONS CAN BE CAUSE FOR REJECTION OF THE MATERIAL.

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COVER SHEET

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

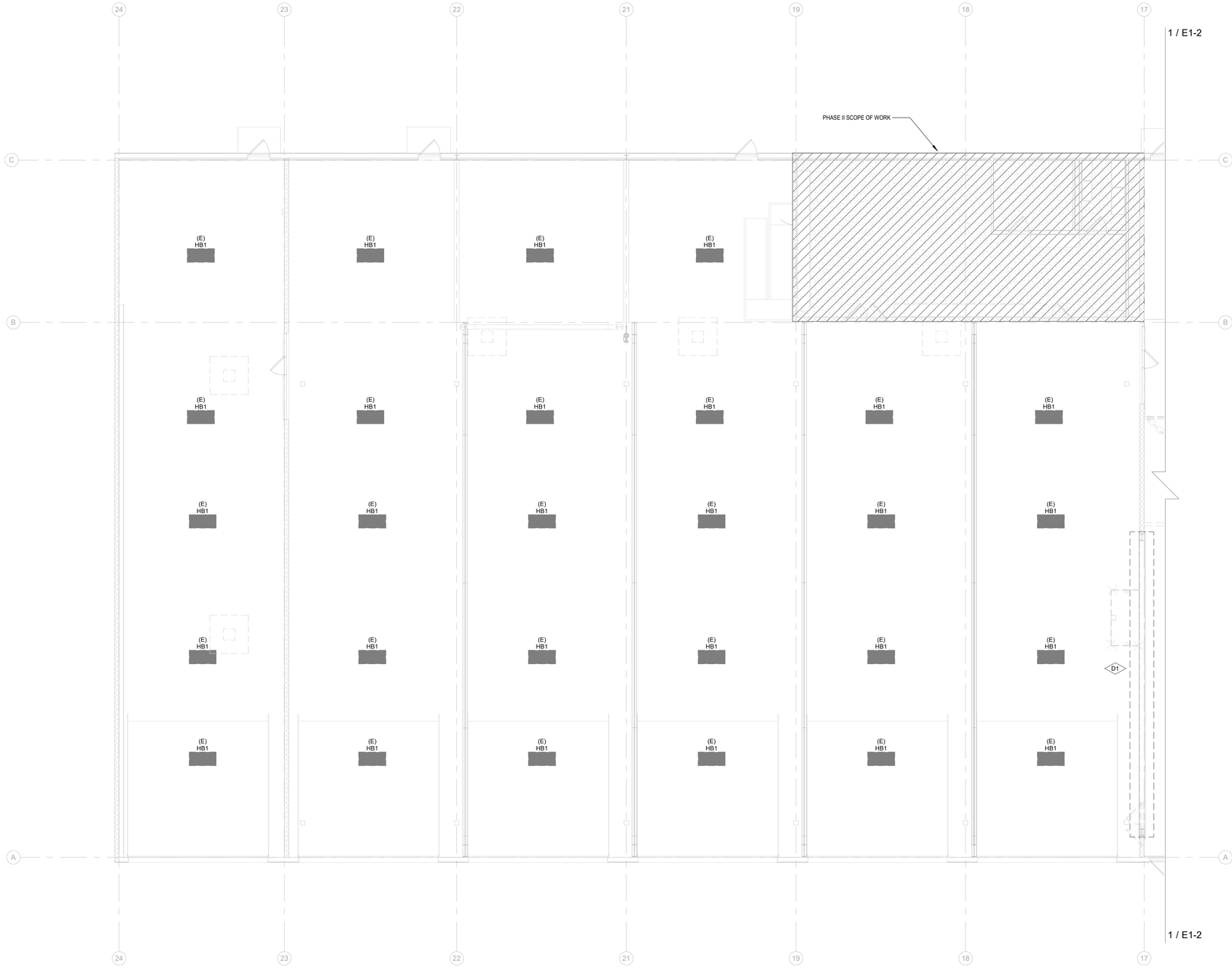
PROJECT #: 25034

SHEET #:

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Project Team:

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1 ED1-1 LIGHTING - DEMO - AREA A
1/8" = 1'-0"

NORTH

GENERAL NOTES

1. EC SHALL VISIT THE SITE AND BECOME FAMILIAR WITH CONDITIONS PRIOR TO COMMENCING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
2. ALL EXISTING LIGHTING FIXTURES SHALL BE REMOVED AND REPLACED WITH NEW FIXTURES AND CONTROLS AS INDICATED ON PROPOSED PLANS UNLESS OTHERWISE NOTED. THE FINISH OF NEW FIXTURES, DEVICES, AND CONTROLS SHALL BE COORDINATED WITH THE ARCHITECT AND OWNER.
3. EXISTING CIRCUITRY SERVING LIGHT FIXTURES AND/OR RECEPTACLES FOR A GIVEN AREA SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS AS REQUIRED TO MAINTAIN THE CONTINUITY OF THE EXISTING CIRCUITS THAT REMAIN.
4. EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED AS REQUIRED FOR NEW WORK.
5. ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION.
6. EC TO TRACE EXISTING CIRCUITS TO BE REUSED TO SERVE THE NEW SPACE.
7. EC TO PROVIDE UPDATED PANEL SCHEDULE(S) AFTER COMMENCING WORK.

DEMO ELECTRICAL FLAG NOTES

NOTE NUMBER	NOTE TEXT
D1	THE AREA ENCLOSED BY DASHED LINES INDICATES WHERE AN EXISTING WALL IS TO BE DEMOLISHED FOR REFERENCE ONLY. REFER TO ARCHITECTURAL DEMO PLANS FOR EXACT LOCATIONS. REMOVE ALL ELECTRICAL DEVICES, INCLUDING RECEPTACLES, SWITCHES, LIGHT FIXTURES, PANELS, DISCONNECTS, STARTERS, CONDUIT AND WIRING WITHIN THE DESIGNATED WALL. REMOVE WIRING BACK TO THE SOURCE PANEL.

KEYPLAN

A	B	C	D

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LIGHTING - DEMO - AREA A

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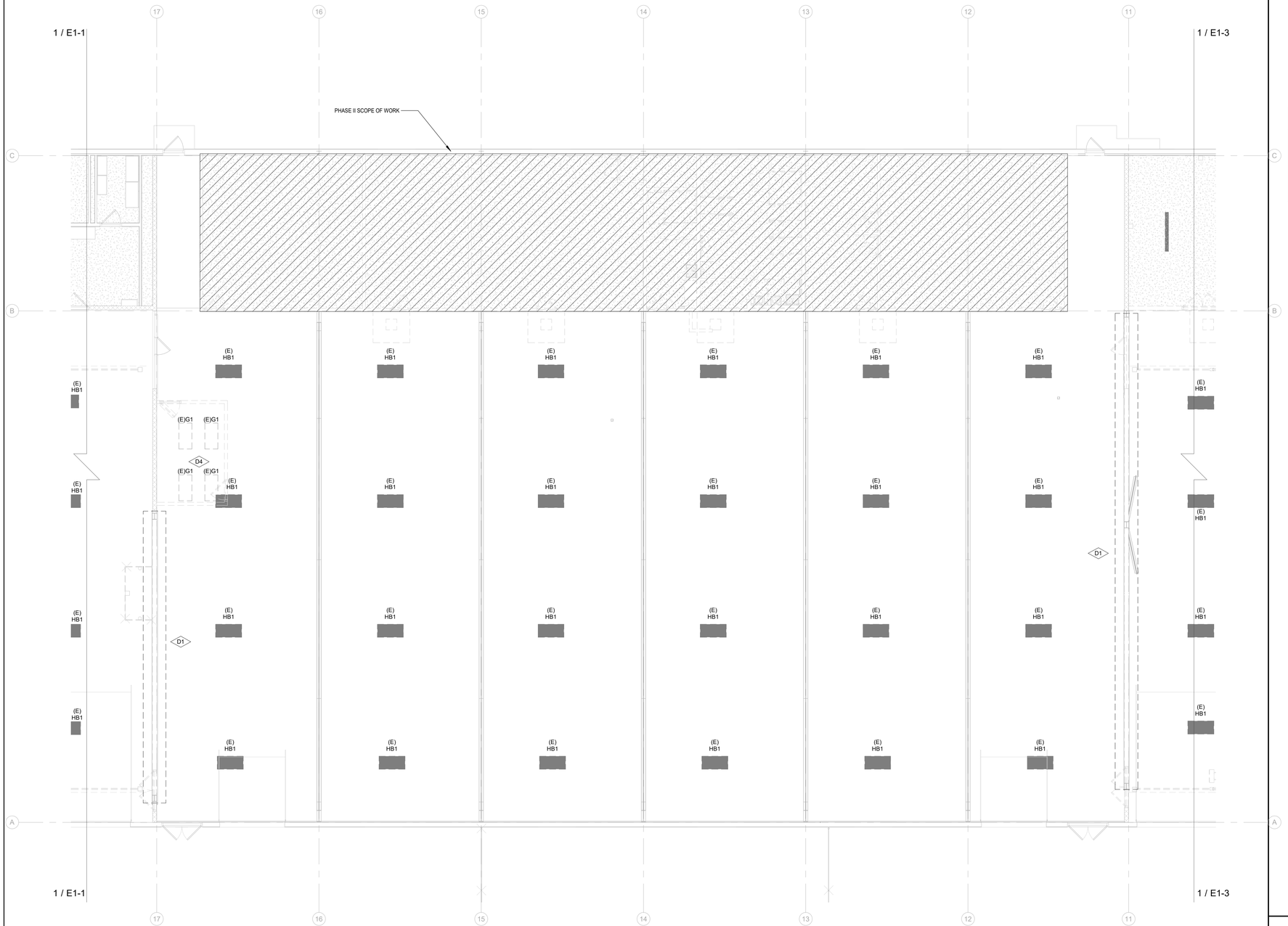
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ED1-1

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LIGHTING - DEMO - AREA B

1 ED1-2 1/8" = 1'-0"

NORTH

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D4	REMOVE ALL ELECTRICAL DEVICES, INCLUDING RECEPTACLES, SWITCHES, LIGHT FIXTURES, PANELS, DISCONNECTS, STARTERS, CONDUIT AND WIRING WITHIN THE EXISTING TO BE REMOVED OFFICE. REMOVE WIRING BACK TO THE SOURCE PANEL.

A	B	C	D

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LIGHTING - DEMO - AREA B

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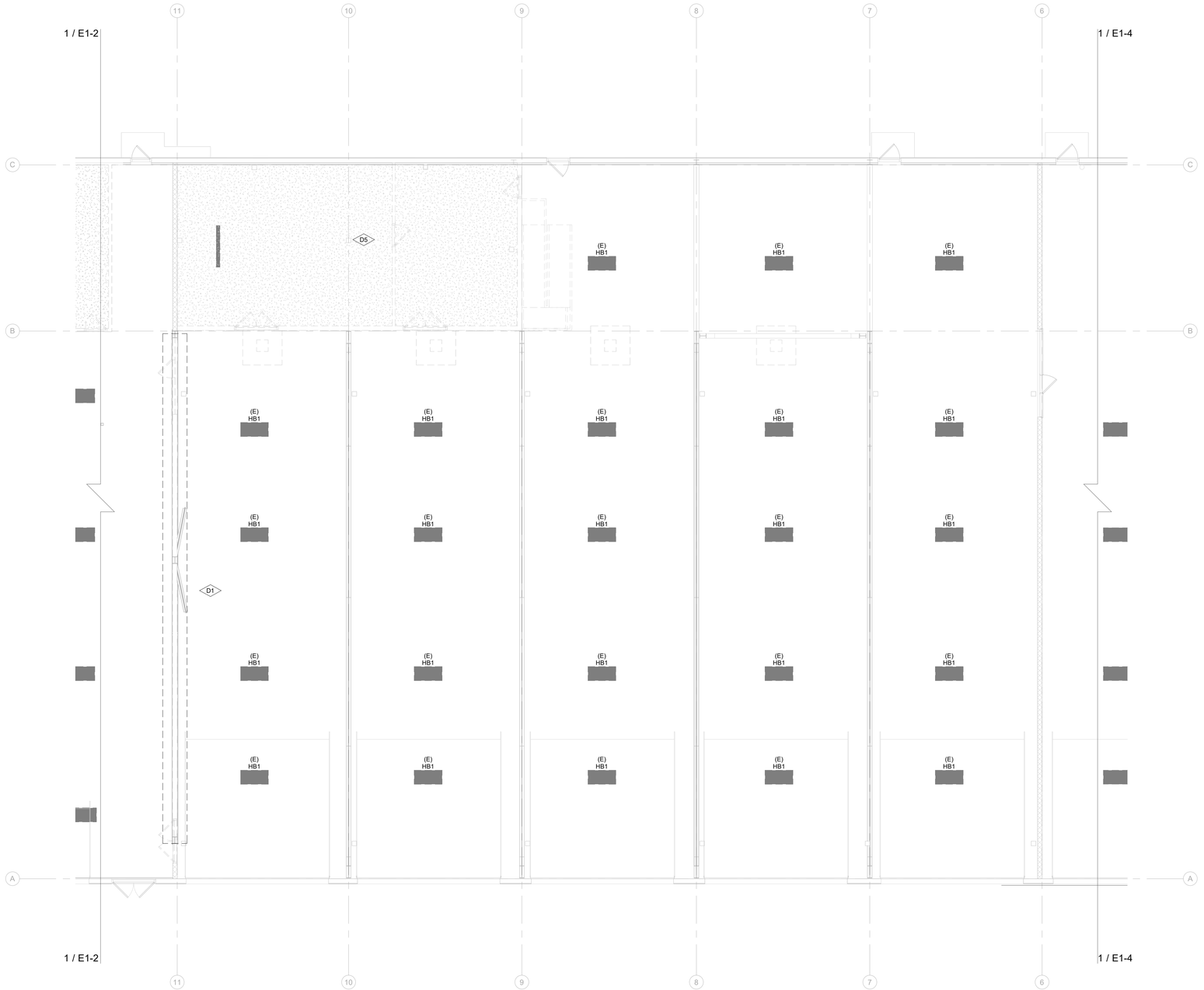
PROJECT #: 25034

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ED1-2

Project Team:

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1 ED1-3 LIGHTING - DEMO - AREA C
1/8" = 1'-0"

NORTH

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D5	REMOVE ALL ELECTRICAL DEVICES, INCLUDING RECEPTACLES, SWITCHES, LIGHT FIXTURES, PANELS, DISCONNECTS, STARTERS, CONDUIT AND WIRING WITHIN THE EXISTING TO BE REMOVED WORKSPACES. REMOVE WIRING BACK TO THE SOURCE PANEL.

A	B	C	D

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LIGHTING - DEMO - AREA C

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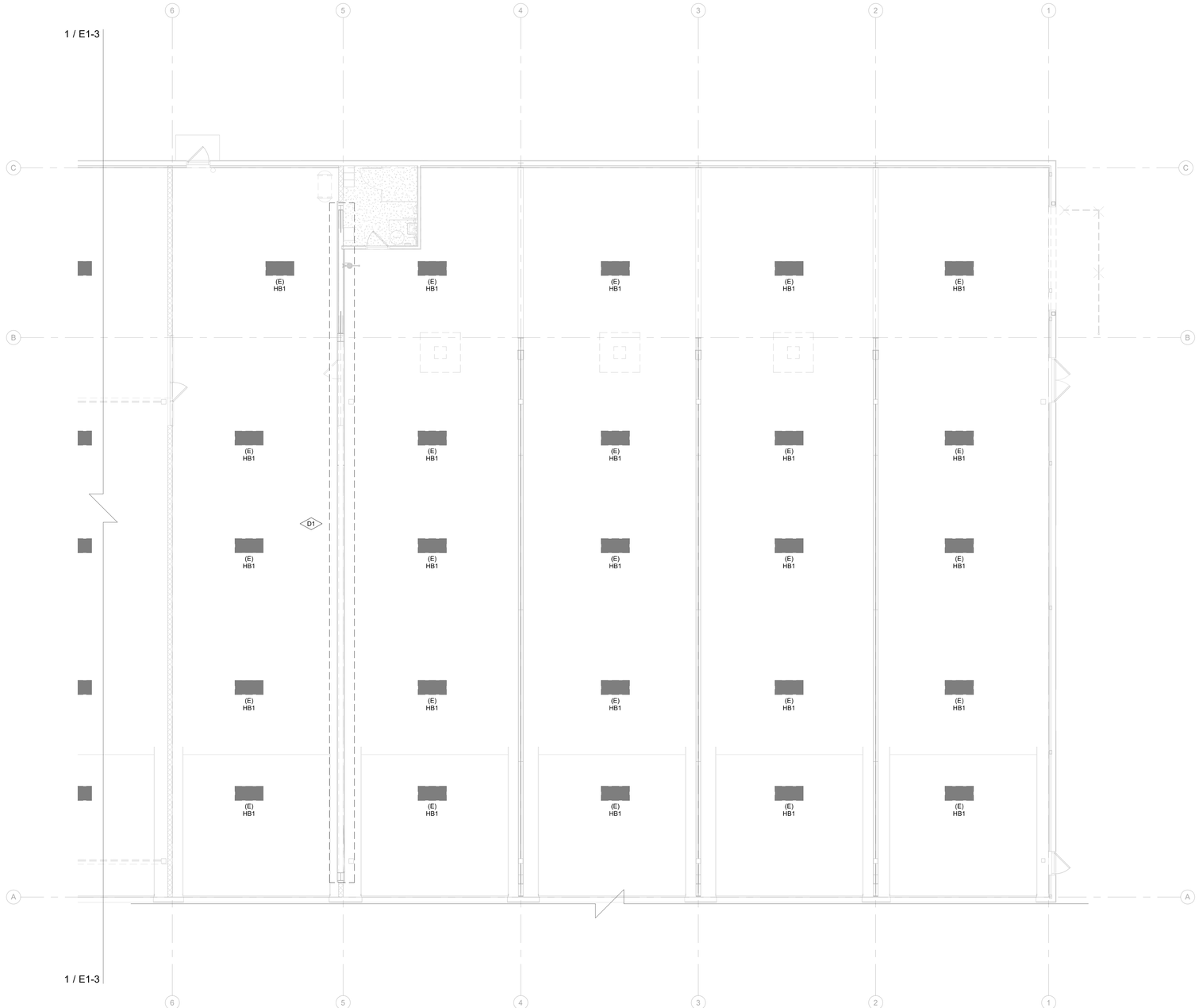
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Project Team:
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1 ED1-4 LIGHTING - DEMO - AREA D
1/8" = 1'-0"

NORTH

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LIGHTING - DEMO - AREA D

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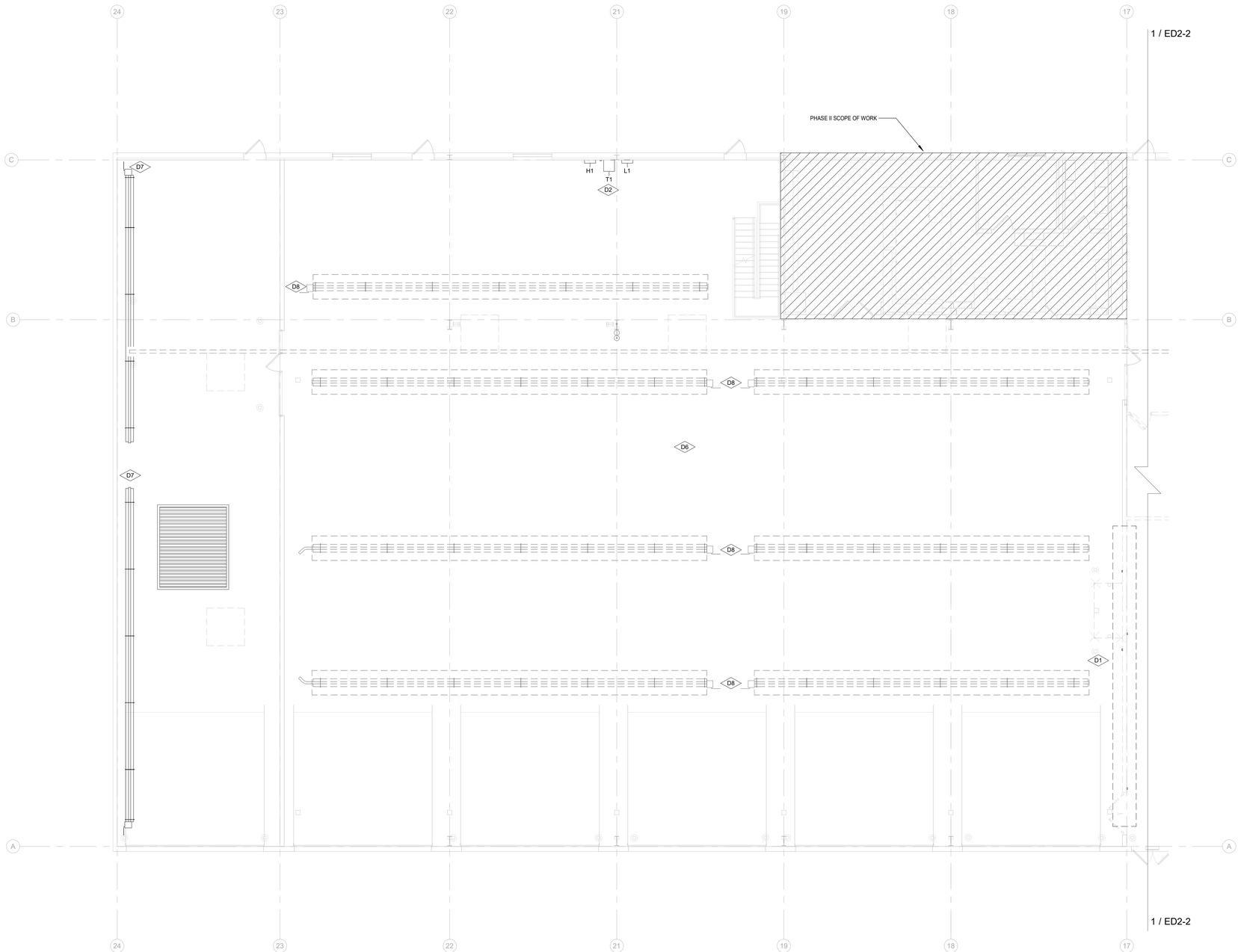
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ELECTRICAL - DEMO - AREA A

1 ED2-1 1/8" = 1'-0"

NORTH

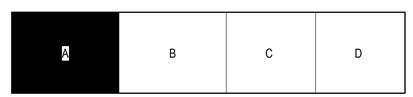
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12. EC TO COORDINATE EXACT LOCATION OF DROP WITH FINAL EQUIPMENT LAYOUT. EC TO COORDINATE FINAL DISCONNECT LOCATION WITH OWNER AND ARCHITECT. DISCONNECT SHOULD BE WITHIN SIGHT OF EQUIPMENT IS SERVES AND HAVE AT LEAST 3' OF CLEARANCE IN FRONT OF THE DISCONNECT UNLESS OTHERWISE NOTED.

DEMO ELECTRICAL FLAG NOTES

NOTE NUMBER	NOTE TEXT
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D2	ALL EXISTING DISTRIBUTION EQUIPMENT INCLUDING PANELBOARDS AND TRANSFORMERS TO BE REMOVED. EXISTING PATHWAYS WHICH CAN BE REUSED TO SERVE FUTURE ELECTRICAL EQUIPMENT FROM EXISTING SWITCHBOARD MDC SHOULD BE MAINTAINED.
D6	PREVIOUS BRIDGE CRANE POWER IN GENERAL LOCATION. ALL EXISTING ELECTRICAL CONDUITS, WIRING, BOXES, AND SUPPORTS WHICH SERVED THE BRIDGE CRANE SHALL BE REMOVED IN THEIR ENTIRETY, STARTING FROM THE ELECTRICAL DEVICE/UNIT BACK TO THE SOURCE PANEL OR THE LAST ACTIVE JUNCTION BOX.
D7	POWER TO EXISTING GAS TUBE HEATER TO REMAIN. HEATER SHOWN FOR REFERENCE ONLY.
D8	ALL EXISTING ELECTRICAL CONDUITS, WIRING, BOXES, AND SUPPORTS WHICH SERVED THE INDUSTRIAL GAS TUBE HEATERS SHALL BE REMOVED IN THEIR ENTIRETY, STARTING FROM THE ELECTRICAL DEVICE/UNIT BACK TO THE SOURCE PANEL OR THE LAST ACTIVE JUNCTION BOX.

KEYPLAN



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ELECTRICAL - DEMO - AREA A

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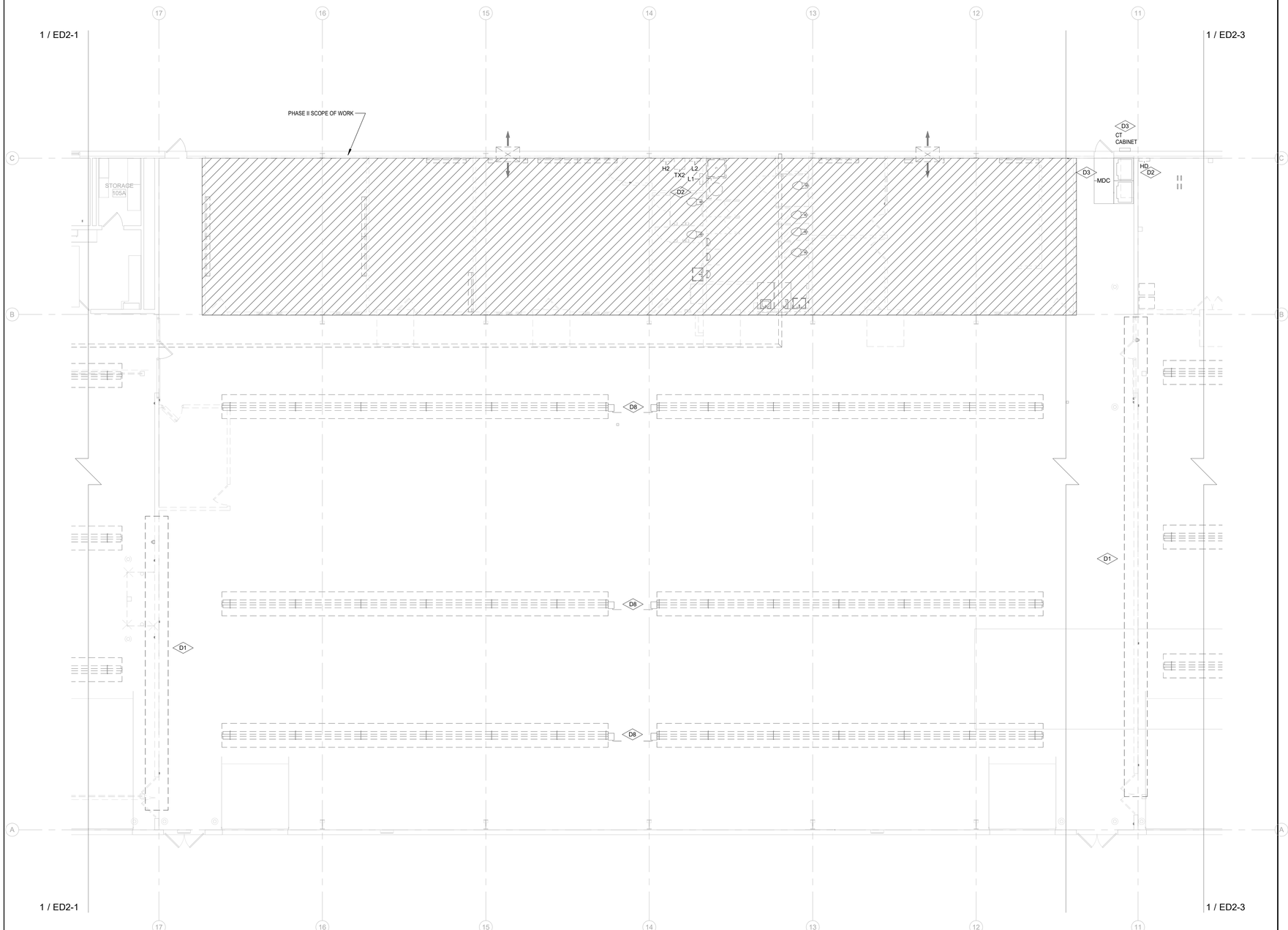
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ELECTRICAL - DEMO - AREA B

NORTH

1 ED2-2 1/8" = 1'-0"

GENERAL NOTES

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DEMO ELECTRICAL FLAG NOTES

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KEYPLAN

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ELECTRICAL - DEMO - AREA B

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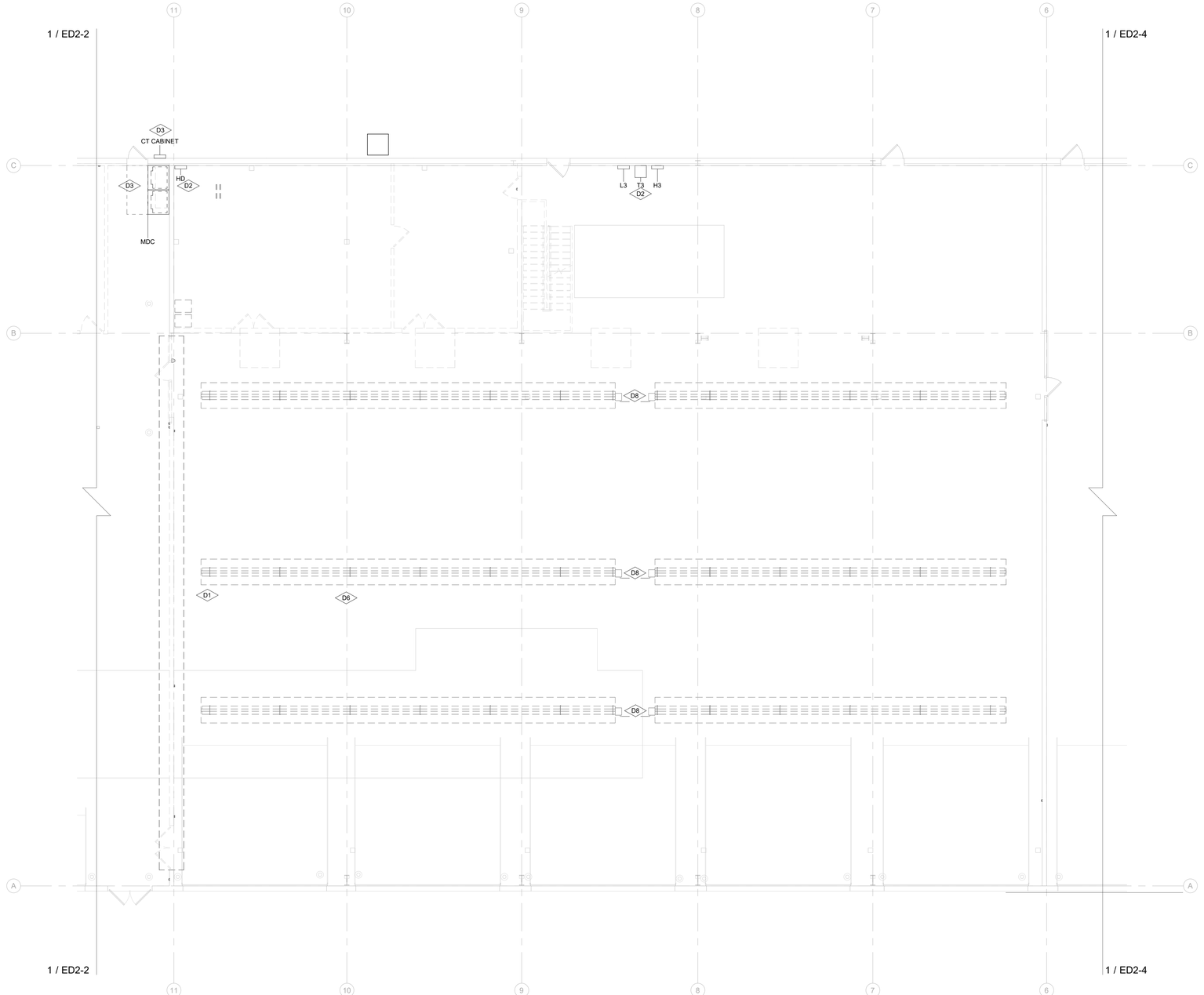
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Project Team:

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12. EC TO COORDINATE EXACT LOCATION OF DROP WITH FINAL EQUIPMENT LAYOUT. EC TO COORDINATE FINAL DISCONNECT LOCATION WITH OWNER AND ARCHITECT. DISCONNECT SHOULD BE WITHIN SIGHT OF EQUIPMENT IS SERVES AND HAVE AT LEAST 3' OF CLEARANCE IN FRONT OF THE DISCONNECT UNLESS OTHERWISE NOTED.

DEMO ELECTRICAL FLAG NOTES

NOTE NUMBER	NOTE TEXT
D1	THE AREA ENCLOSED BY DASHED LINES INDICATES WHERE AN EXISTING WALL IS TO BE DEMOLISHED FOR REFERENCE ONLY, REFER TO ARCHITECTURAL DEMO PLANS FOR EXACT LOCATIONS. REMOVE ALL ELECTRICAL DEVICES, INCLUDING RECEPTACLES, SWITCHES, LIGHT FIXTURES, PANELS, DISCONNECTS, STARTERS, CONDUIT AND WIRING WITHIN THE DESIGNATED WALL. REMOVE WIRING BACK TO THE SOURCE PANEL.
D2	ALL EXISTING DISTRIBUTION EQUIPMENT INCLUDING PANELBOARDS AND TRANSFORMERS TO BE REMOVED. EXISTING PATHWAYS WHICH CAN BE REUSED TO SERVE FUTURE ELECTRICAL EQUIPMENT FROM EXISTING SWITCHBOARD MDC SHOULD BE MAINTAINED.
D3	SHOWN FOR REFERENCE ONLY. EXISTING EQUIPMENT TO REMAIN.
D6	PREVIOUS BRIDGE CRANE POWER IN GENERAL LOCATION. ALL EXISTING ELECTRICAL CONDUITS, WIRING, BOXES, AND SUPPORTS WHICH SERVED THE BRIDGE CRANE SHALL BE REMOVED IN THEIR ENTIRETY, STARTING FROM THE ELECTRICAL DEVICE/UNIT BACK TO THE SOURCE PANEL OR THE LAST
D8	ALL EXISTING ELECTRICAL CONDUITS, WIRING, BOXES, AND SUPPORTS WHICH SERVED THE INDUSTRIAL GAS TUBE HEATERS SHALL BE REMOVED IN THEIR ENTIRETY, STARTING FROM THE ELECTRICAL DEVICE/UNIT BACK TO THE SOURCE PANEL OR THE LAST ACTIVE JUNCTION BOX.

ELECTRICAL - DEMO - AREA C

1 / ED2-3 — 1/8" = 1'-0"

NORTH

KEYPLAN

A	B	C	D

NORTH

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Architecture
Interior Design
Project Management

622 Rood Avenue
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970-242-1058 office

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

ELECTRICAL - DEMO - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

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DATE: 02/02/2026

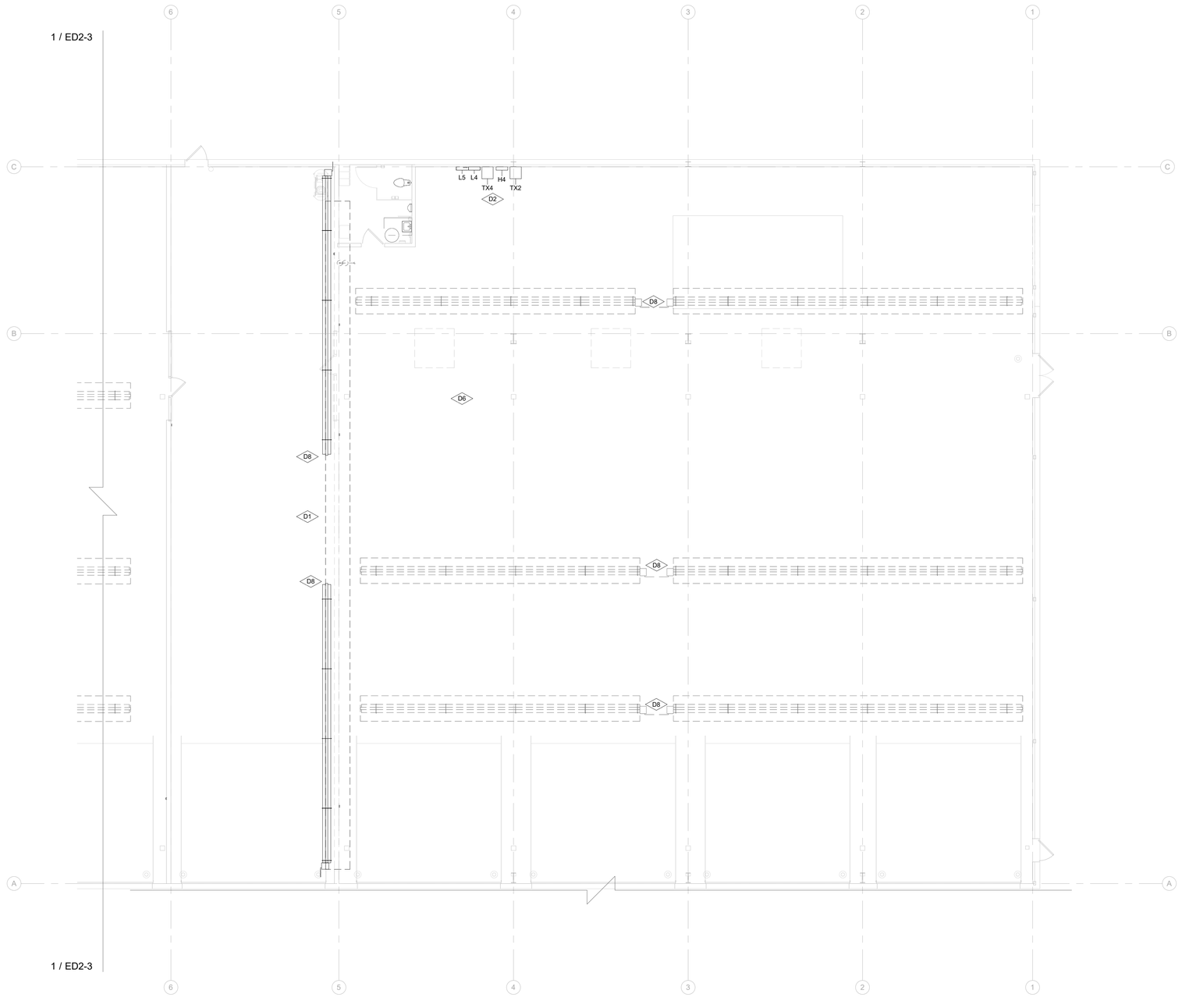
PROJECT #: 25034

SHEET #:

ED2-3

Project Team:

Print Date: 2/3/2026 5:27:23 PM



1 ED2-4 ELECTRICAL - DEMO - AREA D
NORTH 1/8" = 1'-0"

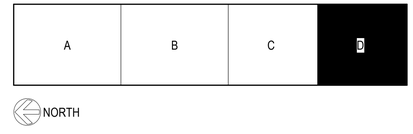
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KEYPLAN



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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

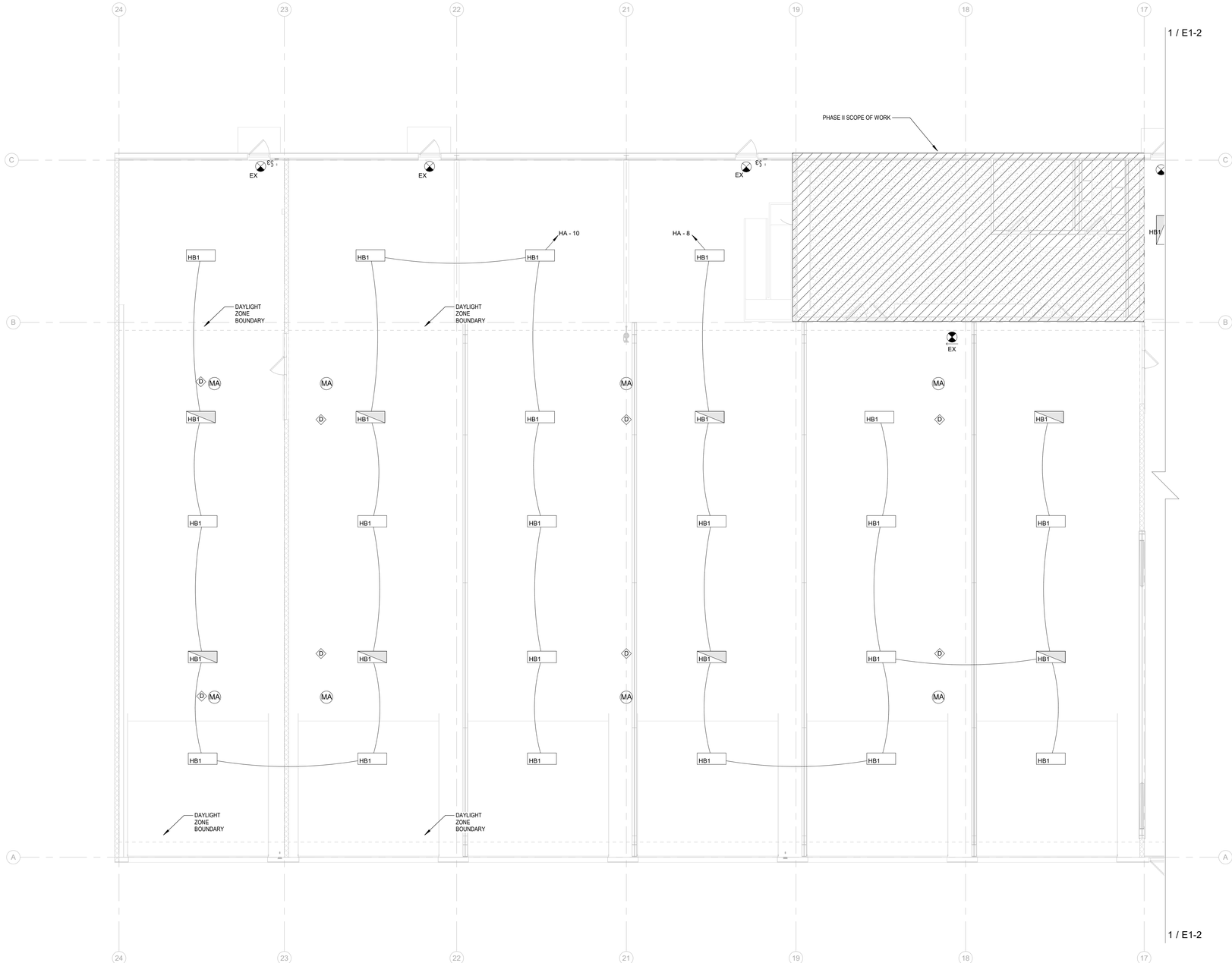
ELECTRICAL - DEMO - AREA D

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

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PROJECT #: 25034
SHEET #:
ED2-4

Project Team:
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LIGHTING - RENOVATED - AREA A

1 E1-1 1/8" = 1'-0"

NORTH

GENERAL NOTES

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KEYPLAN

A	B	C	D

NORTH

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Architecture
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LIGHTING - RENOVATED - AREA A

BID PACKAGE 1 FOR CONSTRUCTION

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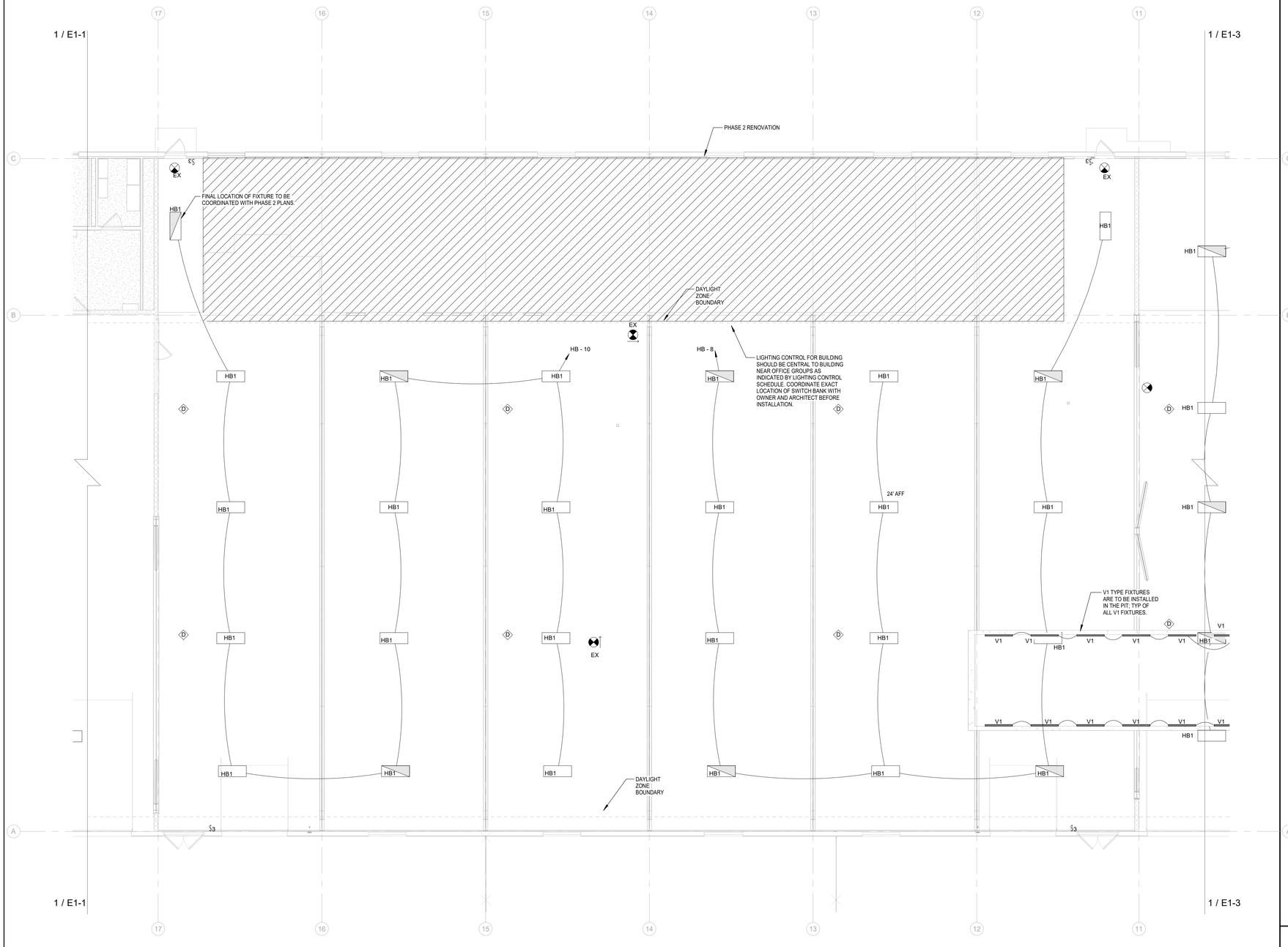
PROJECT #: 25034

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Project Team:

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1 E1-2 LIGHTING - RENOVATED - AREA B
1/8" = 1'-0"

NORTH

A	B	C	D

NORTH

KEYPLAN

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BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

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LIGHTING - RENOVATED - AREA B

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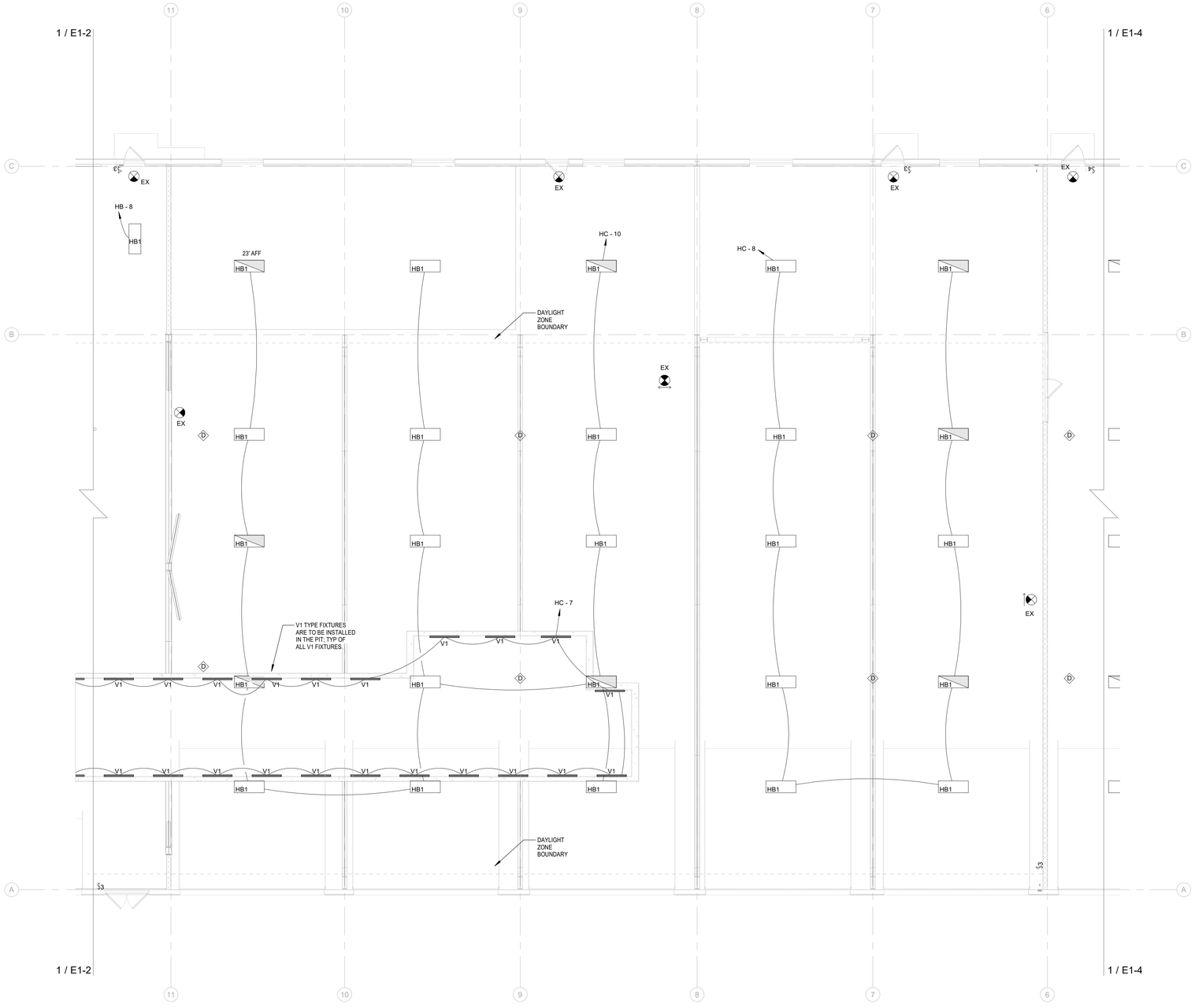
PROJECT #: 25034

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E1-2

Project Team:

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1 E1-3 LIGHTING - RENOVATED - AREA C
1/8" = 1'-0"

NORTH

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

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LIGHTING - RENOVATED - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

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NORTH

KEYPLAN

DATE: 02/02/2026

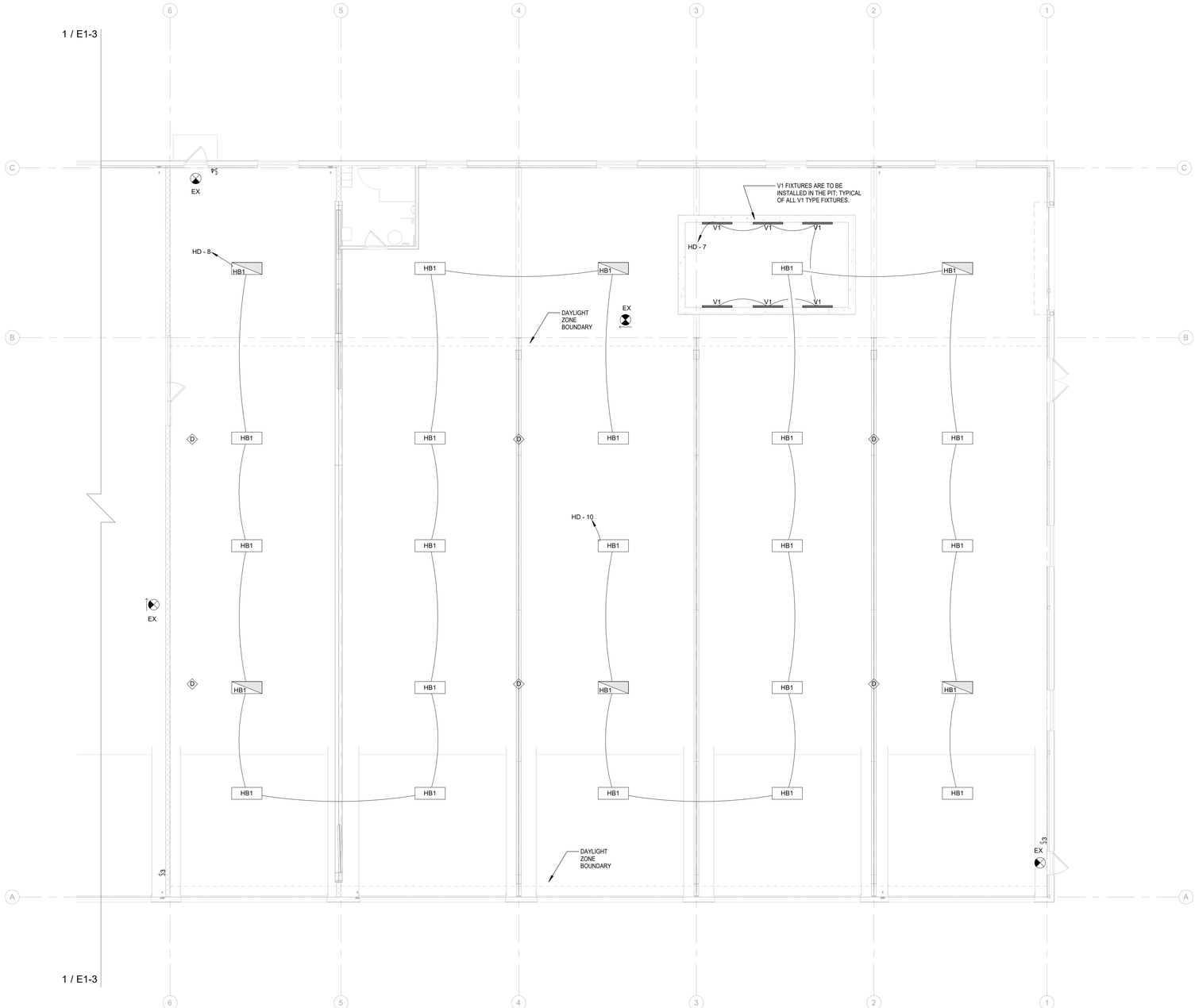
PROJECT #: 25034

SHEET #:

E1-3

Project Team:

Print Date: 2/3/2026 5:27:24 PM



1 E1-4 LIGHTING - RENOVATED - AREA D
1/8" = 1'-0"

NORTH

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A | B | C | D

NORTH

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LIGHTING - RENOVATED - AREA D

BID PACKAGE 1 FOR CONSTRUCTION

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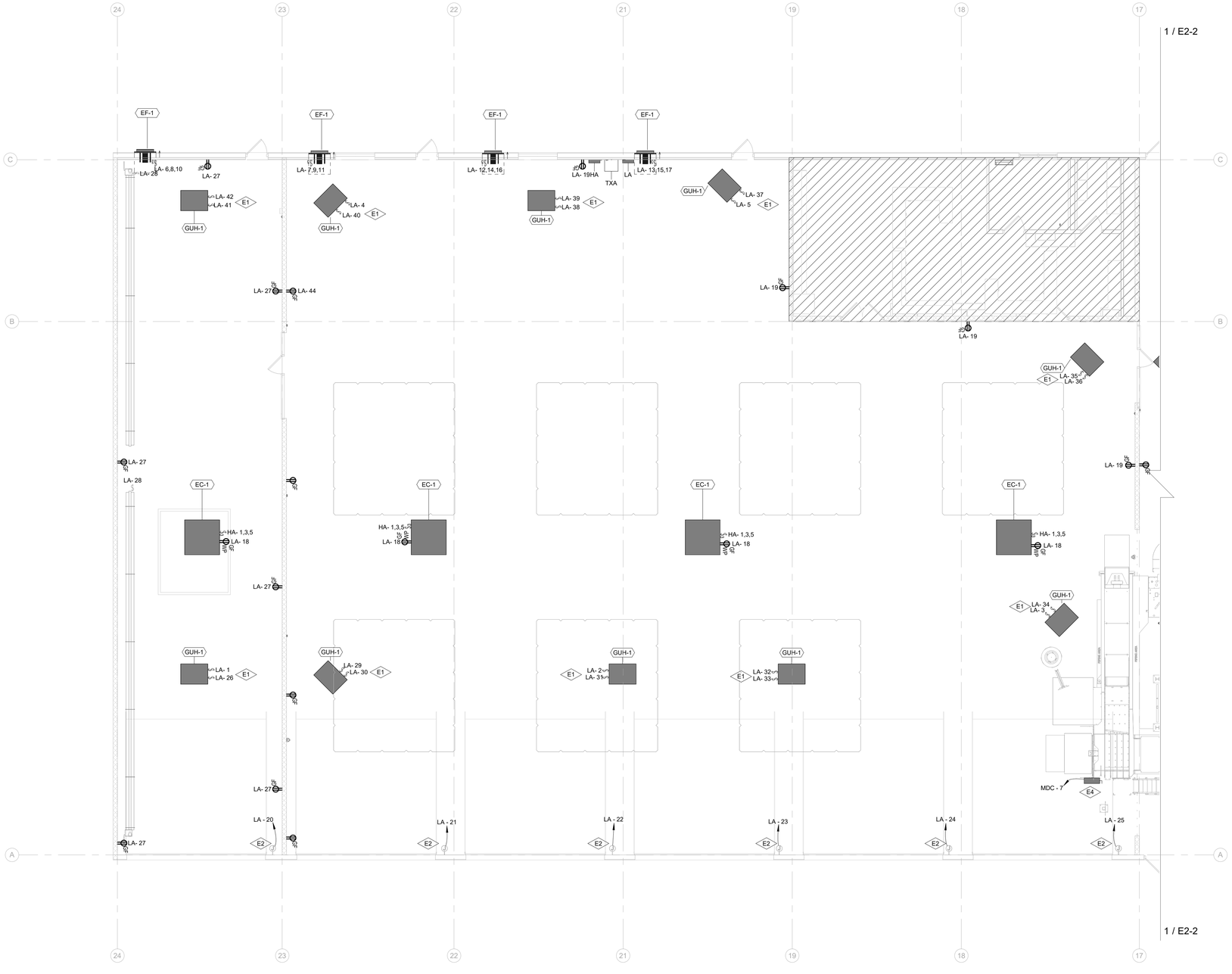
PROJECT #: 25034

SHEET #:

E1-4

Project Team:

Print Date: 2/3/2026 5:27:24 PM



1 E2-1 ELECTRICAL - RENOVATED - AREA A
1/8" = 1'-0"

NORTH

GENERAL NOTES

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10. ALL EQUIPMENT SHALL BE RATED FOR ITS INTENDED ENVIRONMENTAL CONDITIONS. INSTALL EQUIPMENT IN ACCORDANCE WITH ITS LISTING AND LABEL SUITABLE FOR THE ENVIRONMENT.
11. EC TO COORDINATE WITH EQUIPMENT PROVIDER FOR ANY ADDITIONAL CONDUIT, CONDUCTORS, AND CABLING BETWEEN MCC AND EQUIPMENT.
12. EC TO COORDINATE EXACT LOCATION OF DROP WITH FINAL EQUIPMENT LAYOUT. EC TO COORDINATE FINAL DISCONNECT LOCATION WITH OWNER AND ARCHITECT. DISCONNECT SHOULD BE WITHIN SIGHT OF EQUIPMENT IS SERVES AND HAVE AT LEAST 3' OF CLEARANCE IN FRONT OF THE DISCONNECT UNLESS OTHERWISE NOTED.

ELECTRICAL FLAG NOTES

NOTE NUMBER	NOTE TEXT
E1	ONE CONDENSATE LIFT PUMP WILL BE PROVIDED FOR EACH GUH-1. EC TO PROVIDE ELECTRICAL POWER FOR LITTLE GIANT 1/3HP HIGH TEMPERATURE HT-VCL OR EQUIVALENT CONDENSATE LIFT STATION. COORDINATE WITH MECHANICAL/ PLUMBING CONTRACTOR FOR EXACT LOCATION IN FIELD.
E2	RECONNECT EXISTING CIRCUITING FOR EXISTING OVERHEAD DOOR OPENERS TO NEW PANELS. LOCATIONS SHOWN FOR REFERENCE ONLY. EC TO VERIFY EXISTING LOCATION.
E4	EC TO PROVIDE POWER DROP FOR BALER.

KEYPLAN

A	B	C	D

NORTH

BG+ co.
Architecture
Interior Design
Project Management

622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

ELECTRICAL - RENOVATED - AREA A

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

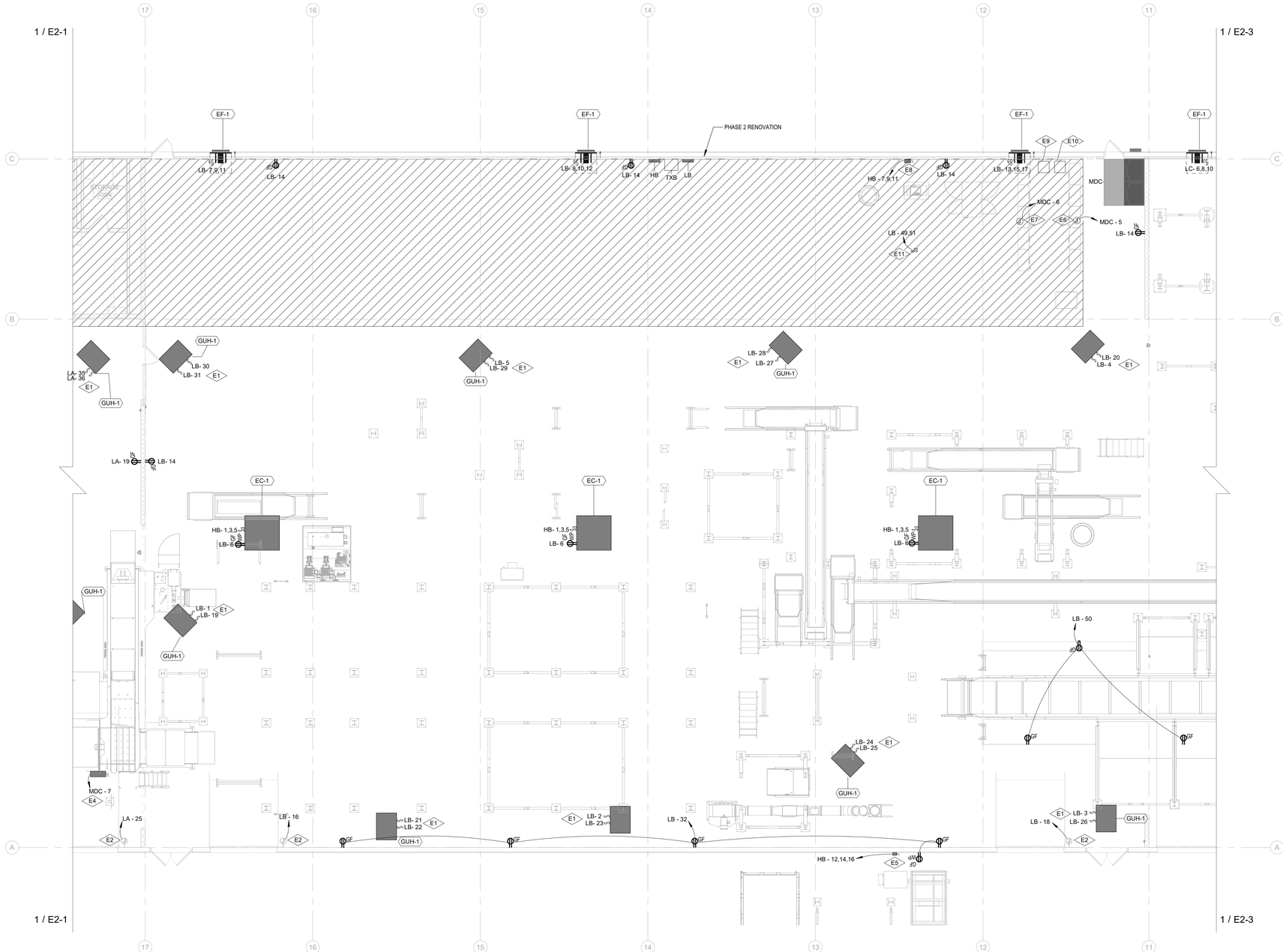
PROJECT #: 25034

SHEET #:

E2-1

Project Team:

Print Date: 2/3/2026 5:27:24 PM



1 E2-2 ELECTRICAL - RENOVATED - AREA B

1/8" = 1'-0"

NORTH

GENERAL NOTES

1. EC SHALL VISIT THE SITE AND BECOME FAMILIAR WITH CONDITIONS PRIOR TO COMMENCING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS.
2. EXISTING ELECTRICAL PANELS ARE SHOWN FOR REFERENCE ONLY. EXACT PANEL LOCATIONS NEED TO BE CONFIRMED IN FIELD.
3. ALL EXISTING ELECTRICAL DEVICES, EQUIPMENT, AND FIXTURES SHALL BE REMOVED AS NECESSARY TO ACCOMMODATE NEW WORK IN SPACE. ALL EXISTING ELECTRICAL CONDUITS, WIRING, BOXES, AND SUPPORTS WHICH PREVIOUSLY SERVED EQUIPMENT THAT IS SLATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, STARTING FROM THE ELECTRICAL DEVICE/UNIT BACK TO THE SOURCE PANEL OR THE LAST ACTIVE JUNCTION BOX.
4. EXISTING CIRCUITRY SERVING LIGHT FIXTURES AND/OR RECEPTACLES FOR A GIVEN AREA SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS AS REQUIRED TO MAINTAIN THE CONTINUITY OF THE EXISTING CIRCUITS THAT REMAIN.
5. EXISTING CIRCUITING TO REMAIN SHALL BE REROUTED OR RECONNECTED AS REQUIRED FOR NEW WORK.
6. ALL EXISTING ITEMS TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND NEW CONSTRUCTION.
7. EC TO TRACE EXISTING CIRCUITS TO BE REUSED TO SERVE THE NEW SPACE.
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ELECTRICAL FLAG NOTES

NOTE NUMBER	NOTE TEXT
E1	ONE CONDENSATE LIFT PUMP WILL BE PROVIDED FOR EACH GUH-1. EC TO PROVIDE ELECTRICAL POWER FOR LITTLE GIANT 1/3HP. HIGH TEMPERATURE HT-VCL OR EQUIVALENT CONDENSATE LIFT STATION. COORDINATE WITH MECHANICAL/ PLUMBING CONTRACTOR FOR EXACT LOCATION IN FIELD.
E2	RECONNECT EXISTING CIRCUITING FOR EXISTING OVERHEAD DOOR OPENERS TO NEW PANELS. LOCATIONS SHOWN FOR REFERENCE ONLY. EC TO VERIFY EXISTING LOCATION.
E4	EC TO PROVIDE POWER DROP FOR BALER.
E5	EC TO PROVIDE POWER DROP FOR COMPACTOR.
E6	EC TO PROVIDE POWER DROP FOR MCC01. EC TO COORDINATE EXACT LOCATION OF DROP WITH FINAL EQUIPMENT LAYOUT. LOCKABLE PROVISIONS ARE TO BE PROVIDED AT FEEDER BREAKER IN MDP.
E7	EC TO PROVIDE POWER DROP FOR MCC02. EC TO COORDINATE EXACT LOCATION OF DROP WITH FINAL EQUIPMENT LAYOUT. LOCKABLE PROVISIONS ARE TO BE PROVIDED AT FEEDER BREAKER IN MDP.
E8	EC TO PROVIDE POWER DROP FOR AIR01 COMPRESSOR.
E9	EC TO PROVIDE POWER DROP FOR XFMR2 OPTICAL BHS SINGLE PHASE 480/240 DRY TYPE 25KVA TRANSFORMER FROM PANEL HB.
E10	EC TO PROVIDE POWER DROP FOR XFMR1 CONTROLS BHS SINGLE PHASE 480/240-120 DRY TYPE 25KVA TRANSFORMER FROM PANEL HB.
E11	EC TO PROVIDE POWER DROP FOR AIR01 DRYER.

KEYPLAN

A	B	C	D

NORTH

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Architecture
Interior Design
Project Management

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ELECTRICAL - RENOVATED - AREA B

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

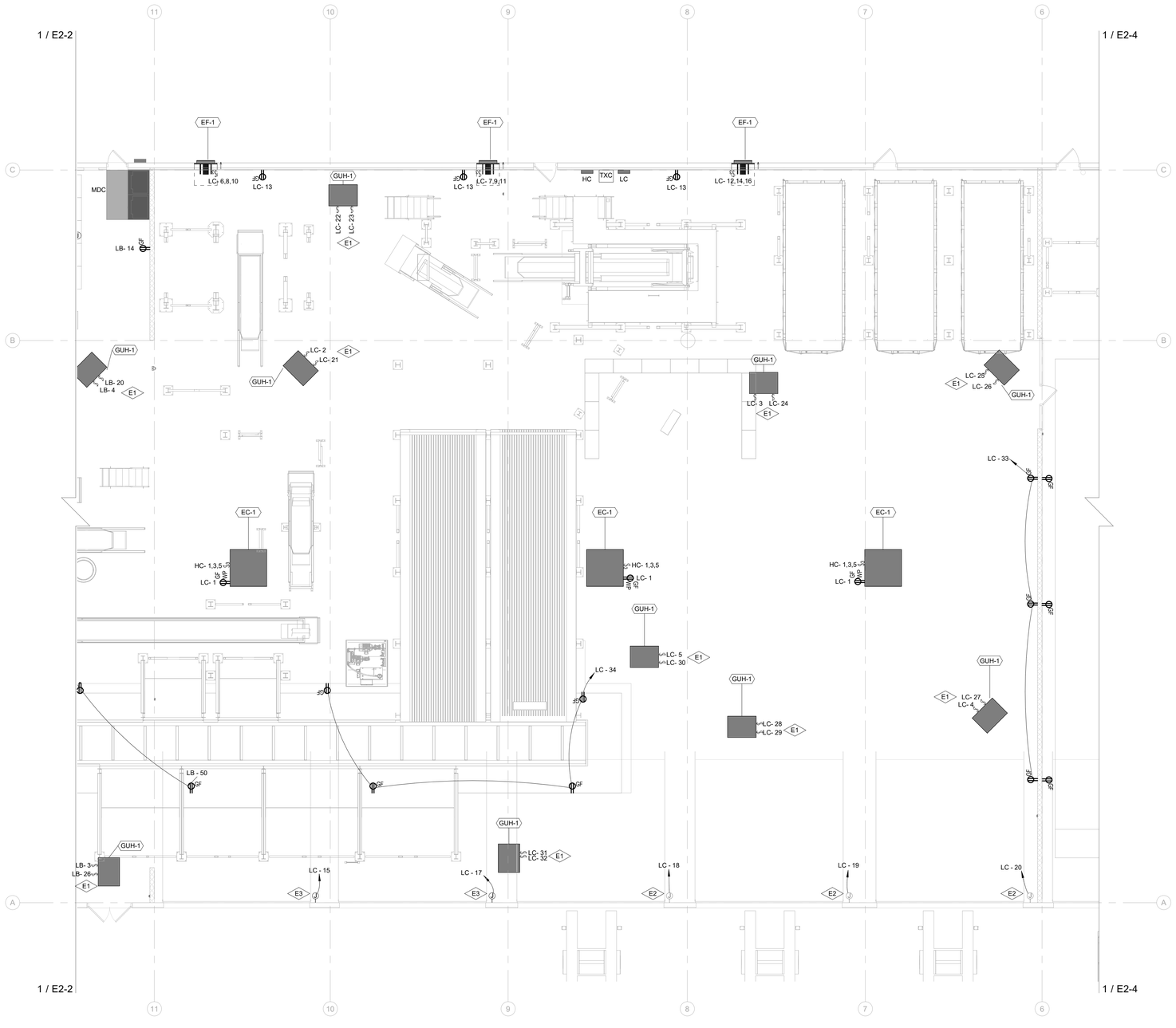
PROJECT #: 25034

SHEET #:

E2-2

Project Team:

Print Date: 2/3/2026 5:27:25 PM



ELECTRICAL - RENOVATED - AREA C

1 / E2-3 1/8" = 1'-0"

NORTH

GENERAL NOTES

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4. EXISTING CIRCUITRY SERVING LIGHT FIXTURES AND/OR RECEPTACLES FOR A GIVEN AREA SHALL BE REUSED WHERE CONVENIENT TO SERVE THE NEW LAYOUT. PROVIDE CIRCUIT MODIFICATIONS AS REQUIRED TO MAINTAIN THE CONTINUITY OF THE EXISTING CIRCUITS THAT REMAIN.
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ELECTRICAL FLAG NOTES

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E3	PROVIDE POWER TO NEW POWERED DOOR.

KEYPLAN

A	B	C	D

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ELECTRICAL - RENOVATED - AREA C

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

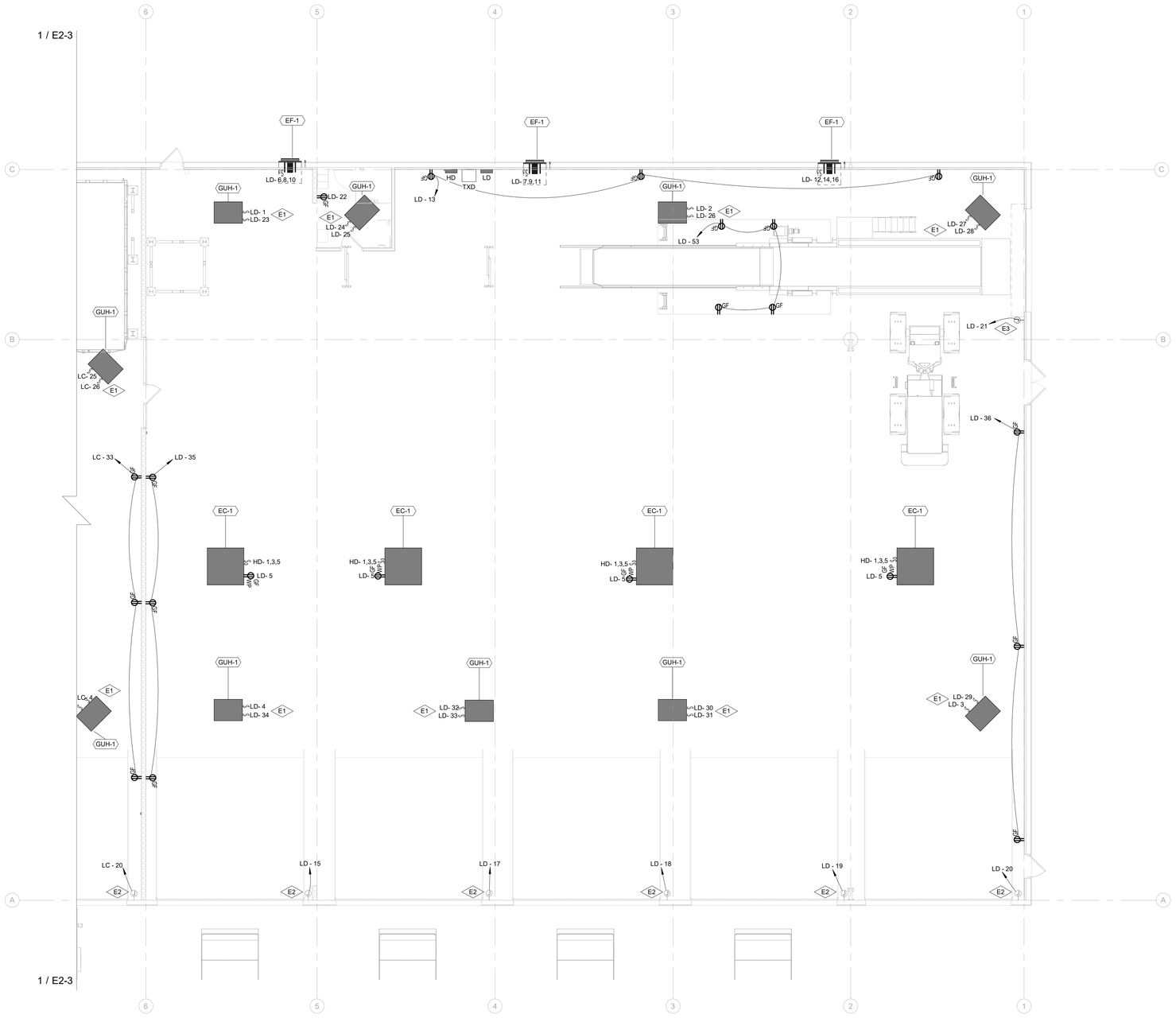
PROJECT #: 25034

SHEET #:

E2-3

Project Team:

Print Date: 2/3/2026 5:27:27 PM



1 E2-4 ELECTRICAL - RENOVATED - AREA D

1/8" = 1'-0"

NORTH

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KEYPLAN

A	B	C	D

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ELECTRICAL - RENOVATED - AREA D

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

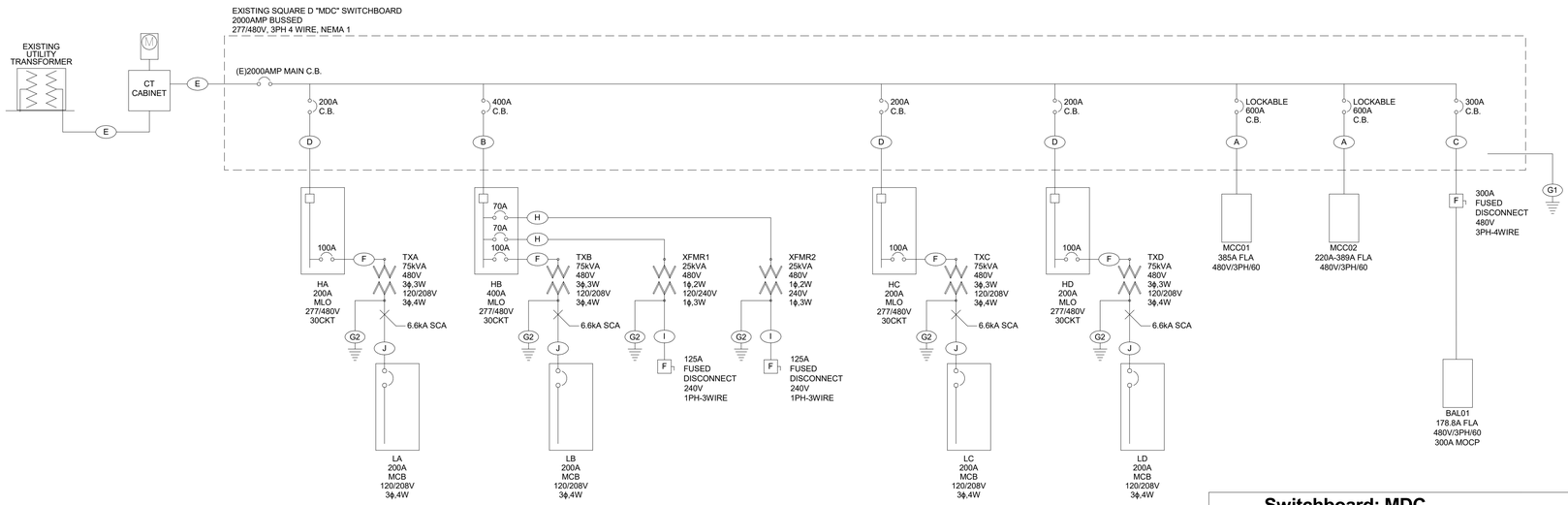
PROJECT #: 25034

SHEET #:

E2-4

Project Team:

Print Date: 2/3/2026 5:27:27 PM



ONE-LINE DIAGRAM

NOT TO SCALE

WIRE SIZE LEGEND

- (A) (2) 3"C (4#500kCMIL(AL) + 1#2/0AWG(AL))
- (B) (2) 2.5"C (4#250kCMIL(AL) + 1#1AWG(AL))
- (C) 3"C (4#500kCMIL(AL) + 1#2AWG(AL))
- (D) 2.5"C (4#250kCMIL(AL) + 1#4AWG(AL))
- (E) EXISTING
- (F) 100A 1"C (3#3AWG(CU) + 1#8AWG(CU))
- (G1) EXISTING
- (G2) #4AWG(CU) TO METAL WATER PIPES AND STRUCTURAL STEEL
- (H) 1.25"C (2#4AWG(CU) +1#8AWG(CU))
- (I) 1.25"C (3#1AWG(CU) +1#6AWG(CU))
- (J) 2.5"C (4#250kCMIL(AL) + 1#1/0AWG(AL))

ELECTRICAL ONE LINE NOTES:

1. PROVIDE GROUNDING AND BONDING TO MEET THE 2023 NEC ARTICLE 250 REQUIREMENTS.
2. PROVIDE LABELING TO MEET THE REQUIREMENTS OF 110.21.
3. CONDUCTOR SIZES ARE BASED UPON THE RATING OF THE CIRCUIT; CONTRACTOR TO ACCOMMODATE INCREASES IN CONDUCTOR SIZES TO MAINTAIN LESS THAN 3% VOLTAGE DROP FOR THE FEEDERS BASED UPON THE INSTALLED CONDUCTOR LENGTHS.
4. PRELIMINARY FAULT CURRENT ESTIMATES ARE BASED ON AN INSTALLED 750KVA TRANSFORMER APPROXIMATELY 10' AWAY WITH AVAILABLE FAULT AT THE SECONDARY TERMINALS EQUAL TO 16,900 FOR 277/480V.
5. EC TO ENSURE THAT SECONDARY PROTECTION IS PROVIDED FOR XFRM1 AND XFRM2 IN ACCORDANCE WITH 2023 NEC 450.3. EC TO COORDINATE WITH EQUIPMENT SUPPLIER TO DETERMINE IF EQUIPMENT HAS INTEGRAL SECONDARY PROTECTION OR IF A FUSED DISCONNECT SHOULD BE PROVIDED BEFORE THE LOAD SERVED BY XFRM1 AND XFRM2.
6. VERIFY THAT THE EXISTING 600A BREAKERS IN THE MDP ARE 100% RATED BREAKERS, WHERE THEY ARE 80% REPLACE WITH 100% RATED BREAKERS.

GENERAL NOTES

1. ALL PENETRATIONS IN OR THROUGH FIRE RATED PARTITIONS SHALL BE FIRE STOPPED IN SUCH A WAY THAT THE PENETRATION MATCHES THE FIRE RATING OF THE WALL.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION BETWEEN THE APPROPRIATE DISCIPLINES AND CONTRACTORS. ALL EQUIPMENT IS TO BE INSTALLED TO STRICTLY CONFORM TO MANUFACTURER'S INSTALLATION GUIDELINES. ALL EQUIPMENT IS TO BE INSTALLED WITH ALL NECESSARY CONTROL/ACCESSORY OPTIONS TO FUNCTION AS INTENDED. IT IS THE RESPONSIBILITY OF THE EQUIPMENT MANUFACTURER/SUPPLIER AND THE CONTRACTOR/INSTALLER TO PROVIDE COMPLETE INSTALLATION AND FUNCTIONALITY OF ALL EQUIPMENT BASED ON DESIGN SPECIFICATIONS AS OUTLINED BY THE ARCHITECT/ENGINEER.
3. COORDINATE ALL DEVICE, FIXTURE AND HARDWARE COLOR SELECTIONS WITH THE ARCHITECT/OWNER PRIOR TO MAKING SHOP DRAWING SUBMITTALS.
4. ALL EXPOSED CONDUITS, BOXES, ETC. IN ROOMS TO BE PAINTED SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE. EXPOSED CONDUITS, BOXES, ETC. IN ROOMS WHICH ARE NOT PAINTED MAY BE LEFT UN-PAINTED. EXPOSED CONDUIT, BOXES, ETC. ON THE EXTERIOR OF BUILDINGS SHALL BE PAINTED TO MATCH THE SURROUNDING SURFACE AS CLOSELY AS POSSIBLE.
5. ALL SERVICEABLE MECHANICAL EQUIPMENT IS TO BE INSTALLED WITH AN ACCEPTABLE DISCONNECTING MEANS AND/OR SERVICE OUTLET AS REQUIRED BY GOVERNING CODES.
6. ALL INSTALLED EQUIPMENT THAT REQUIRES MARKING, TAGGING, OR OTHER IDENTIFICATION SHALL BE SO MARKED, TAGGED, OR OTHERWISE IDENTIFIED BY THE CONTRACTOR/INSTALLER AT THE TIME OF INSTALLATION IN COMPLIANCE WITH ALL GOVERNING CODES.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE WITH 2023 NEC 210.8, OR AS MAY BE REQUIRED BY OTHER SECTIONS OF 2023 NEC.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE WEATHER-PROOF IN-USE COVERS FOR ALL EXTERIOR RECEPTACLES.
9. REFER TO MECHANICAL AND PLUMBING DESIGN DRAWINGS FOR ADDITIONAL EQUIPMENT INFORMATION.

Switchboard: MDC

Location: SHOP 116B
Supply From:
Mounting: Floor
Enclosure: NEMA 1
Circuit Number:

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 2000 A
MCB Rating: 2000 A

Notes:

CKT	Circuit Description	# of Poles	Frame Size	Trip Rating	Load	Remarks
1	HA	3	200 A	200 A	48767 VA	
2	HB	3	400 A	400 A	156693 VA	
3	HC	3	200 A	200 A	39216 VA	
4	HD	3	200 A	200 A	43145 VA	
5	Power MCC01	3	600 A	600 A	306737 VA	
6	Power MCC02	3	600 A	600 A	309924 VA	
7	Power BAL01 BALER	3	400 A	300 A	142454 VA	
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
				Total Conn. Load:	1046935 VA	
				Total Amps:	1259 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	21405 VA	100.00%	21405 VA		
Motor	16596 VA	100.00%	16596 VA	**Total Conn. Load:**	1046935 VA
Power	876836 VA	100.00%	876836 VA	**Total Est. Demand:**	1036585 VA
Receptacle	30700 VA	66.29%	20350 VA	**Total Conn. Current:**	1259 A
Cooling	39573 VA	100.00%	39573 VA	**Total Est. Demand Current:**	1247 A
Heating	26700 VA	100.00%	26700 VA		
EXHAUST FAN	35125 VA	100.00%	35125 VA		

Notes:

LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
(E) HB1	N/A	EXISTING	EXISTING	EXISTING HIGH BAY FIXTURE TO BE REMOVED.
(E)G1	N/A	EXISTING	EXISTING	EXISTING 2X4 TROFFER FIXTURE TO BE REMOVED.
EX	LITHONIA LIGHTING	WLTE W 1/2 G EL SD	LED	EXIT FIXTURE, BATTERY BACKED, WET LOCATION LISTED, 5 YEAR WARRANTY
HB1	LITHONIA LIGHTING	XIB L48 30000LM AFMD MVOLT GZ10 35K 80CRI (EM E15WMCP)	0-10V DIMMING, 30000LM, 3500K CCT, 80CRI, 193.3W	48" WET LOCATION HIGH BAY, IP65 RATED, 5 YEAR LIMITED WARRANTY
V1	LITHONIA LIGHTING	CSVT L48 5000LM MVOLT 40K 80CRI	0-10V DIMMING, 5000LM, 4000K CCT, 80CRI, 42W	48" WET LOCATION VAPOR TIGHT LED STRIP LIGHT, IK10 RATED.

NOTE:
FIXTURES HB1 TO BE MOUNTED AT 22' AFF, UNLESS NOTED OTHERWISE ON PLANS. FIXTURES WITH A DIFFERING HEIGHT NOTED, SHALL BE INSTALLED AT THAT HEIGHT TO AVOID CONFLICTS.

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ELECTRICAL SCHEDULES

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

E3-1

Project Team:
Print Date: 2/3/2026 5:27:27 PM

Branch Panel: HA

Location:
Supply From: MDC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: MLO

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cooling (4) EC-1	20 A	3	3769 VA	11327 VA					3	100 A	TXA	2
3	--	--	--			3769 VA	10115 VA			--	--	--	4
5	--	--	--					3769 VA	10607 VA	--	--	--	6
7					2513 VA					1	20 A	Lighting	8
9							2900 VA			1	20 A	Lighting	10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
		Total Load:		17608 VA		16783 VA		14375 VA					
		Total Amps:		65 A		62 A		52 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	11306 VA	100.00%	11306 VA		
Heating	7800 VA	100.00%	7800 VA	**Total Conn. Load:**	48767 VA
Lighting	5412 VA	100.00%	5412 VA	**Total Est. Demand:**	48767 VA
Motor	4200 VA	100.00%	4200 VA	**Total Conn.:**	59 A
Receptacle	9240 VA	100.00%	9240 VA	**Total Est. Demand:**	59 A
EXHAUST FAN	10808 VA	100.00%	10808 VA		

Notes:

Branch Panel: HB

Location:
Supply From: MDC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 400 A
MCB Rating: MLO

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cooling (3) EC-1	20 A	3	2827 VA	9602 VA					3	100 A	TXB	2
3	--	--	--			2827 VA	8514 VA			--	--	--	4
5	--	--	--					2827 VA	7350 VA	--	--	--	6
7	SPARE AIR01 COMPRESSOR	90 A	3	16997 VA	2513 VA					1	20 A	Lighting	8
9	--	--	--			16997 VA	2513 VA			1	20 A	Lighting	10
11	--	--	--					16997 VA	5577 VA	3	30 A	POWER COMPACTOR	12
13	XFMR1	70 A	2	12500 VA	5577 VA					--	--	--	14
15	--	--	--			12500 VA	5577 VA			--	--	--	16
17	XFMR2	70 A	2					12500 VA					18
19	--	--	--	12500 VA									20
21													22
23													24
25													26
27													28
29													30
		Total Load:		62515 VA		48927 VA		45250 VA					
		Total Amps:		228 A		179 A		163 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	8480 VA	100.00%	8480 VA		
Heating	6804 VA	100.00%	6804 VA	**Total Conn. Load:**	156693 VA
Lighting	5026 VA	100.00%	5026 VA	**Total Est. Demand:**	156693 VA
Motor	5676 VA	100.00%	5676 VA	**Total Conn.:**	188 A
Power	117721 VA	100.00%	117721 VA	**Total Est. Demand:**	188 A
Receptacle	4880 VA	100.00%	4880 VA		
EXHAUST FAN	8106 VA	100.00%	8106 VA		

Notes:

Branch Panel: LA

Location:
Supply From: TXA
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Heating GUH-1	15 A	1	756 VA	756 VA					1	15 A	Heating GUH-1	2
3	Heating GUH-1	15 A	1			756 VA	756 VA			1	15 A	Heating GUH-1	4
5	Heating GUH-1	15 A	1					756 VA	901 VA	3	20 A	EXHAUST FAN EF-2	6
7	EXHAUST FAN EF-1	20 A	3	901 VA	901 VA					--	--	--	8
9	--	--	--			901 VA	901 VA			--	--	--	10
11	--	--	--					901 VA	901 VA	3	20 A	EXHAUST FAN EF-1	12
13	EXHAUST FAN EF-1	20 A	3	901 VA	901 VA					--	--	--	14
15	--	--	--			901 VA	901 VA			--	--	--	16
17	--	--	--					901 VA	720 VA	1	20 A	Receptacle ROOFTOP GFCI 5mA	18
19	Receptacle CONVENIENCE -GFCI 5mA	20 A	1	720 VA	1000 VA					1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	20
21	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1			1000 VA	1000 VA			1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	22
23	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1					1000 VA	1000 VA	1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	24
25	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1	1000 VA	420 VA					1	20 A	Motor CONDENSATE PUMP	26
27	Receptacle CONVENIENCE - GFCI 5mA	20 A	1			1080 VA	240 VA			1	20 A	Heating (E) GAS TUBE HEATERS	28
29	Heating GUH-1	15 A	1					756 VA	420 VA	1	20 A	Motor CONDENSATE PUMP	30
31	Motor CONDENSATE PUMP	20 A	1	420 VA	756 VA					1	15 A	Heating GUH-1	32
33	Motor CONDENSATE PUMP	20 A	1			420 VA	420 VA			1	20 A	Motor CONDENSATE PUMP	34
35	Heating GUH-1	15 A	1					756 VA	420 VA	1	20 A	Motor CONDENSATE PUMP	36
37	Motor CONDENSATE PUMP	20 A	1	420 VA	756 VA					1	15 A	Heating GUH-1	38
39	Motor CONDENSATE PUMP	20 A	1			420 VA	420 VA			1	20 A	Motor CONDENSATE PUMP	40
41	Heating GUH-1	15 A	1					756 VA	420 VA	1	20 A	Motor CONDENSATE PUMP	42
43	Spare	20 A	1	0 VA	720 VA					1	20 A	Receptacle CONVENIENCE -GFCI 5mA	44
45	Spare	20 A	1			0 VA							46
47	Spare	20 A	1					0 VA					48
49	Spare	20 A	1	0 VA									50
51	Spare	20 A	1			0 VA							52
53													54
55													56
57													58
59													60
		Total Load:		11327 VA		10115 VA		10607 VA					
		Total Amps:		95 A		84 A		89 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	7800 VA	100.00%	7800 VA		
Motor	4200 VA	100.00%	4200 VA	**Total Conn. Load:**	32048 VA
Receptacle	9240 VA	100.00%	9240 VA	**Total Est. Demand:**	32048 VA
EXHAUST FAN	10808 VA	100.00%	10808 VA	**Total Conn.:**	89 A
				Total Est. Demand:	89 A

Notes:

Branch Panel: LB

Location:
Supply From: TXB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Heating GUH-1	15 A	1	756 VA	756 VA					1	15 A	Heating GUH-1	2
3	Heating GUH-1	15 A	1			756 VA	756 VA			1	15 A	Heating GUH-1	4
5	Heating GUH-1	15 A	1					756 VA	540 VA	1	20 A	Receptacle ROOFTOP - GFCI 5mA	6
7	EXHAUST FAN EF-1	20 A	3	901 VA	901 VA					3	20 A	EXHAUST FAN EF-1	8
9	--	--	--			901 VA	901 VA			--	--	--	10
11	--	--	--					901 VA	901 VA	--	--	--	12
13	EXHAUST FAN EF-1	20 A	3	901 VA	900 VA					1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	14
15	--	--	--			901 VA	1000 VA			1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	16
17	--	--	--					901 VA	1000 VA	1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	18
19	Motor CONDENSATE PUMP	20 A	1	420 VA	420 VA					1	20 A	Motor CONDENSATE PUMP	20
21	Heating GUH-1	15 A	1			756 VA	420 VA			1	20 A	Motor CONDENSATE PUMP	22
23	Heating GUH-1	15 A	1					420 VA	756 VA	1	15 A	Heating GUH-1	24
25	Motor CONDENSATE PUMP	20 A	1	420 VA	420 VA					1	20 A	Motor CONDENSATE PUMP	26
27	Heating GUH-1	15 A	1			756 VA	420 VA			1	20 A	Motor CONDENSATE PUMP	28
29	Motor CONDENSATE PUMP	20 A	1					420 VA	756 VA	1	15 A	Heating GUH-1	30
31	Motor CONDENSATE PUMP	20 A	1	420 VA	900 VA					1	20 A	Receptacle CONVENIENCE -GFCI 5mA	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Motor AIR01 DRYER	15 A	2	948 VA	540 VA					1	20 A	Receptacle PIT GFCI 5mA	50
51	--	--	--			948 VA							52
53													54
55													56
57													58
59													60
		Total Load:		9602 VA		8514 VA		7350 VA					
		Total Amps:		82 A		72 A		61 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	6804 VA	100.00%	6804 VA		
Motor	5676 VA	100.00%	5676 VA	**Total Conn. Load:**	25466 VA
Receptacle	4880 VA	100.00%	4880 VA	**Total Est. Demand:**	25466 VA
EXHAUST FAN	8106 VA	100.00%	8106 VA	**Total Conn.:**	71 A
				Total Est. Demand:	71 A

Notes:

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Project Management

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Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

ELECTRICAL SCHEDULES

BID PACKAGE 1 FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

E3-2

Project Team:
Print Date: 2/3/2026 5:27:28 PM

Branch Panel: HC

Location: SHOP 119C
Supply From: MDC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: MLO

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cooling (3) EC-1	20 A	3	2827 VA	8890 VA					3	100 A	TXC	2
3	--	--	--			2827 VA	8826 VA			--	--	--	4
5	--	--	--					2827 VA	7138 VA	--	--	--	6
7	Lighting PIT LIGHTING	20 A	1	1050 VA	1933 VA					1	20 A	Lighting	8
9							2900 VA			1	20 A	Lighting	10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
		Total Load:		14700 VA		14552 VA		9965 VA					
		Total Amps:		56 A		55 A		36 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	8480 VA	100.00%	8480 VA		
Heating	6048 VA	100.00%	6048 VA	**Total Conn. Load:**	39216 VA
Lighting	5883 VA	100.00%	5883 VA	**Total Est. Demand:**	39216 VA
Motor	3360 VA	100.00%	3360 VA	**Total Conn.:**	47 A
Receptacle	7340 VA	100.00%	7340 VA	**Total Est. Demand:**	47 A
EXHAUST FAN	8106 VA	100.00%	8106 VA		

Notes:

Branch Panel: HD

Location: SHOP 121E
Supply From: MDC
Mounting: Surface
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: MLO

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Cooling (4) EC-1	20 A	3	3769 VA	8770 VA					3	100 A	TXD	2
3	--	--	--			3769 VA	8410 VA			--	--	--	4
5	--	--	--					3769 VA	9574 VA	--	--	--	6
7	Lighting PIT LIGHTING	20 A	1	252 VA	2320 VA					1	20 A	Lighting	8
9							2513 VA			1	20 A	Lighting	10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
		Total Load:		15110 VA		14692 VA		13343 VA					
		Total Amps:		55 A		54 A		48 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	11306 VA	100.00%	11306 VA		
Heating	6048 VA	100.00%	6048 VA	**Total Conn. Load:**	43145 VA
Lighting	5085 VA	100.00%	5085 VA	**Total Est. Demand:**	43145 VA
Motor	3360 VA	100.00%	3360 VA	**Total Conn.:**	52 A
Receptacle	9240 VA	100.00%	9240 VA	**Total Est. Demand:**	52 A
EXHAUST FAN	8106 VA	100.00%	8106 VA		

Notes:

Branch Panel: LC

Location: SHOP 119C
Supply From: TXC
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle ROOFTOP GFCI 5mA	20 A	1	540 VA	756 VA					1	15 A	Heating GUH-1	2
3	Heating GUH-1	15 A	1			756 VA	756 VA			1	15 A	Heating GUH-1	4
5	Heating GUH-1	15 A	1					756 VA	901 VA	3	20 A	EXHAUST FAN EF-1	6
7	EXHAUST FAN EF-1	20 A	3	901 VA	901 VA					--	--	--	8
9	--	--	--			901 VA	901 VA			--	--	--	10
11	--	--	--					901 VA	901 VA	3	20 A	EXHAUST FAN EF-1	12
13	Receptacle CONVENIENCE GFCI 5mA	20 A	1	540 VA	901 VA					--	--	--	14
15	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1			1000 VA	901 VA			--	--	--	16
17	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1					1000 VA	1000 VA	1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	18
19	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1	1000 VA	1000 VA					1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	20
21	Motor CONDENSATE PUMP	20 A	1			420 VA	756 VA			1	15 A	Heating GUH-1	22
23	Motor CONDENSATE PUMP	20 A	1					420 VA	420 VA	1	20 A	Motor CONDENSATE PUMP	24
25	Heating GUH-1	15 A	1	756 VA	420 VA					1	20 A	Motor CONDENSATE PUMP	26
27	Motor CONDENSATE PUMP	20 A	1			420 VA	756 VA			1	15 A	Heating GUH-1	28
29	Motor CONDENSATE PUMP	20 A	1					420 VA	420 VA	1	20 A	Motor CONDENSATE PUMP	30
31	Motor CONDENSATE PUMP	20 A	1	420 VA	756 VA					1	15 A	Heating GUH-1	32
33	Receptacle CONVENIENCE -GFCI 5mA	20 A	1			540 VA	720 VA			1	20 A	Receptacle PIT GFCI 5mA	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA							52
53													54
55													56
57													58
59													60
		Total Load:		8890 VA		8826 VA		7138 VA					
		Total Amps:		76 A		76 A		59 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	6048 VA	100.00%	6048 VA		
Motor	3360 VA	100.00%	3360 VA	**Total Conn. Load:**	24854 VA
Receptacle	7340 VA	100.00%	7340 VA	**Total Est. Demand:**	24854 VA
EXHAUST FAN	8106 VA	100.00%	8106 VA	**Total Conn.:**	69 A
				Total Est. Demand:	69 A

Notes:

Branch Panel: LD

Location: SHOP 121E
Supply From: TXD
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Heating GUH-1	15 A	1	756 VA	756 VA					1	15 A	Heating GUH-1	2
3	Heating GUH-1	15 A	1			756 VA	756 VA			1	15 A	Heating GUH-1	4
5	Receptacle ROOFTOP GFCI 5mA	20 A	1					720 VA	901 VA	3	20 A	EXHAUST FAN EF-2	6
7	EXHAUST FAN EF-2	20 A	3	901 VA	901 VA					--	--	--	8
9	--	--	--			901 VA	901 VA			--	--	--	10
11	--	--	--					901 VA	901 VA	3	20 A	EXHAUST FAN EF-1	12
13	Receptacle CONVENIENCE GFCI 5mA	20 A	1	540 VA	901 VA					--	--	--	14
15	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1			1000 VA	901 VA			--	--	--	16
17	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1					1000 VA	1000 VA	1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	18
19	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1	1000 VA	1000 VA					1	20 A	Receptacle OVERHEAD DOOR GFCI 5mA	20
21	Receptacle OVERHEAD DOOR GFCI 5mA	20 A	1			1000 VA	180 VA			1	20 A	Receptacle BATHROOM GFCI 5mA	22
23	Motor CONDENSATE PUMP	20 A	1					420 VA	756 VA	1	15 A	Heating GUH-1	24
25	Motor CONDENSATE PUMP	20 A	1	420 VA	420 VA					1	20 A	Motor CONDENSATE PUMP	26
27	Heating GUH-1	15 A	1			756 VA	420 VA			1	20 A	Motor CONDENSATE PUMP	28
29	Motor CONDENSATE PUMP	20 A	1					420 VA	756 VA	1	15 A	Heating GUH-1	30
31	Motor CONDENSATE PUMP	20 A	1	420 VA	756 VA					1	15 A	Heating GUH-1	32
33	Motor CONDENSATE PUMP	20 A	1			420 VA	420 VA			1	20 A	Motor CONDENSATE PUMP	34
35	Receptacle CONVENIENCE -GFCI 5mA	20 A	1					540 VA	540 VA	1	20 A	Receptacle CONVENIENCE - GFCI 5mA	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Receptacle PIT GFCI 5mA	20 A	1					720 VA					54
55													56
57													58
59													60
		Total Load:		8770 VA		8410 VA		9574 VA					
		Total Amps:		74 A		70 A		80 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	6048 VA	100.00%	6048 VA		
Motor	3360 VA	100.00%	3360 VA	**Total Conn. Load:**	26754 VA
Receptacle	9240 VA	100.00%	9240 VA	**Total Est. Demand:**	26754 VA
EXHAUST FAN	8106 VA	100.00%	8106 VA	**Total Conn.:**	74 A
				Total Est. Demand:	74 A

Notes:

Project Team:
Print Date: 2/3/2026 5:27:28 PM

BG+co.
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Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

ELECTRICAL SCHEDULES

BID PACKAGE 1 FOR CONSTRUCTION

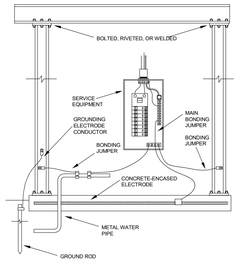
REV. DESC. DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

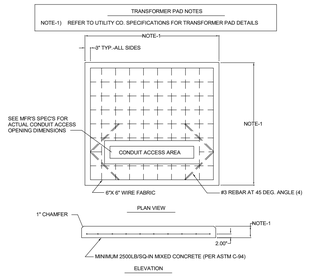
E3-3



GROUNDING ELECTRODE SYSTEM DETAIL

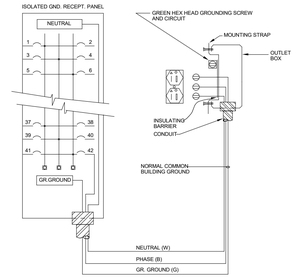
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NOTES:
1. SEE ONE LINE DIAGRAM FOR GROUNDING CONDUCTOR SIZES REQUIRED.
2. PROVIDE A MINIMUM OF TWO SEPARATE GROUND SOURCES, U.O.N. ON ONE LINE DIAGRAM.



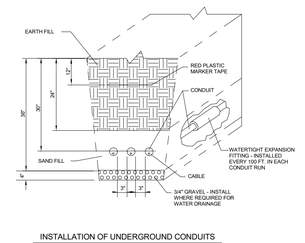
DISTRIBUTION TRANSFORMER BASE DETAIL

NOT TO SCALE



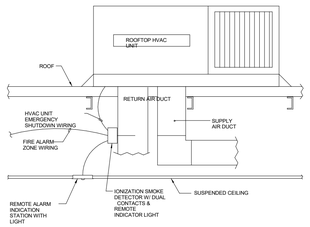
TYPICAL RECEPTACLE WIRING DIAGRAM

NOT TO SCALE



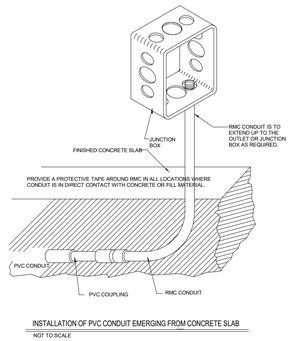
INSTALLATION OF UNDERGROUND CONDUITS

NOT TO SCALE



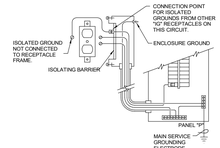
ROOFTOP HVAC UNIT DUCT MOUNTED SMOKE DETECTOR DETAIL

NOT TO SCALE



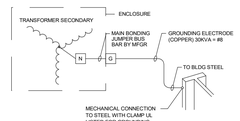
INSTALLATION OF PVC CONDUIT EMERGING FROM CONCRETE SLAB

NOT TO SCALE



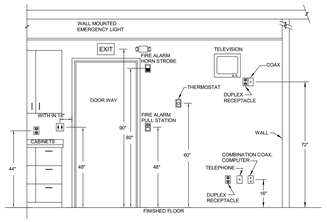
ISOLATED GROUND RECEPTACLE

NOT TO SCALE.



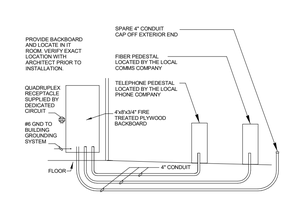
TRANSFORMER GROUNDING DETAIL

NOT TO SCALE



NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL TELEVISION OUTLETS WITH THE OWNER PRIOR TO ROUGH-IN.
2. ALL DEVICES SHOWN ON THIS DETAIL ARE FOR REFERENCES OF MOUNTING HEIGHTS ONLY. THE ELECTRICAL CONTRACTOR SHALL FIELD ADJUST THE HEIGHTS OF THE DEVICES AS REQUIRED FOR PROPER MOUNTING OF THE DEVICES.
3. ALL DEVICES REQUIRED FOR THIS PROJECT MAY NOT APPEAR ON THIS DETAIL. ALL ITEMS SHOWN ON THIS DETAIL MAY NOT BE REQUIRED FOR THIS PROJECT.

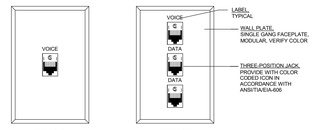
DEVICE MOUNTING HEIGHT



COMMUNICATIONS BACKBOARD DETAIL

NOT TO SCALE

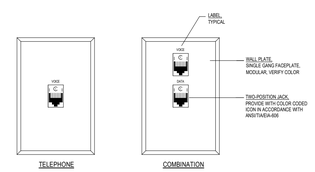
NOTES:
1. PROVIDE A #6 AWG GROUND WIRE AT THE BACKBOARD TIED TO THE COMMON POWER GROUND PER NEC ART. #250.
2. PROVIDE SWEEPS OR FIELD BENDS FOR ALL UNDERGROUND CONDUIT DIRECTIONAL CHANGES.



NOTES:
1. PROVIDE ALL DEVICES U.L. LISTED FOR USE IN CATEGORY 6 INSTALLATIONS.
2. PROVIDE INSTALLATION AND LABELLING IN ACCORDANCE WITH ANSI/TIA/EIA STANDARDS 568A AND 606.

TYPICAL TELECOMMUNICATIONS OUTLET

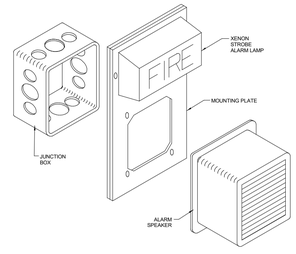
NOT TO SCALE



NOTES:
1. PROVIDE ALL DEVICES U.L. LISTED FOR USE IN CATEGORY 6 INSTALLATIONS.
2. PROVIDE INSTALLATION AND LABELLING IN ACCORDANCE WITH ANSI/TIA/EIA STANDARDS 568A AND 606.

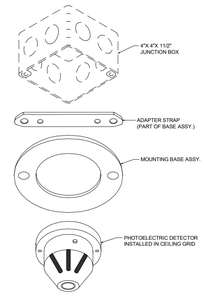
TYPICAL TELECOMMUNICATIONS OUTLET

NOT TO SCALE



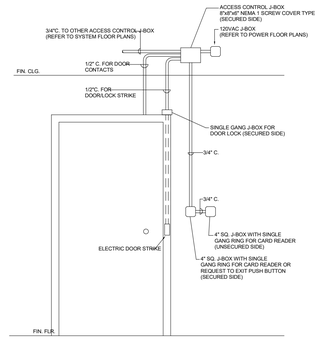
FIRE ALARM SPEAKER/STROBE LIGHT MOUNTING DETAIL

NOT TO SCALE



TYPICAL SMOKE DETECTOR MOUNTING DETAIL

NOT TO SCALE



ACCESS CONTROL CONDUIT FOR CARD READER SYSTEM DETAIL

NOT TO SCALE

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CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

ELECTRICAL DETAILS

BID PACKAGE 1 FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/02/2026

PROJECT #: 25034

SHEET #:

E3-4

Project Team:

Print Date: 2/3/2026 5:27:28 PM

FIRE PROTECTION GENERAL NOTES

1. THIS BUILDING IS TO BE PROVIDED WITH A FIRE SPRINKLER SYSTEM DESIGNED, INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 13 AND THE REQUIREMENTS OF GRAND JUNCTION FIRE DEPARTMENT.
2. THE FIRE PROTECTION CONTRACTOR SHALL CONFIRM WATER SUPPLY DATA AND INCLUDE WITH HYDRAULIC CALCULATIONS.
3. ALL MATERIALS, DEVICES AND HANGERS USED ON THIS PROJECT SHALL BE UL LISTED FOR USE IN FIRE PROTECTION SYSTEMS.
4. ALL PIPING SHALL COMPLY WITH PROJECT SPECIFICATIONS. PIPE SIZING IS TO BE COMPLETED BY THE FIRE PROTECTION CONTRACTOR, PROVEN BY HYDRAULIC CALCULATIONS, IN ACCORDANCE WITH NFPA 13.
5. FREEZE PROTECTION SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR. NO PIPING MAY BE RUN IN EXTERIOR WALLS. FIRE PROTECTION CONTRACTOR SHALL VERIFY CONDITIONED TEMPERATURE OF ALL AREAS PRIOR TO SYSTEM DESIGN.
6. AFTER COMPLETION OF CONSTRUCTION, THE OWNER SHALL MAINTAIN A CLEAR 18" BETWEEN THE CEILING AND THE TOP OF ANY STORAGE OR OTHER OBSTRUCTIONS.
7. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
8. SPRINKLER HEADS TO BE COORDINATED WITH ALL LIGHTING FIXTURES AND CEILING SYSTEMS. OFFSET PIPING, DUCTWORK, ETC. AS NECESSARY TO ACCOMMODATE STRUCTURE, BEAMS, COLUMNS, AND MECHANICAL EQUIPMENT.
9. PLANS ARE CONCEPTUAL ONLY. SPRINKLER CONTRACTOR SHALL REFER TO SPECIFICATIONS AND PREPARE SHOP DRAWINGS FOR SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION, GENERAL CONTRACTOR, FIRE PROTECTION ENGINEER AND ARCHITECT BEFORE ANY PIPE IS HUNG.
10. CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY APPARENT ERROR OR OMISSION AND SHALL IMMEDIATELY NOTIFY ARCHITECT. ARCHITECT WILL THEN MAKE SUCH CORRECTIONS AND/OR INTERPRETATIONS AS MAY BE NECESSARY FOR FULFILLING INTENT OF PLANS AND SPECIFICATIONS.
11. COORDINATE ALL WORK WITH OTHER TRADES.
12. PROVIDE OWNER WITH THE NECESSARY INSTRUCTION MANUALS FOR THE UPKEEP OF THE SYSTEM.
13. INSTALL ONLY NEW SPRINKLERS AND MATERIALS.
14. FIRESTOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC. TO MAINTAIN FIRE RATING.
15. HYDROSTATICALLY TEST ALL SYSTEM PIPING AT 200 PSI FOR TWO HOURS OR AT 50 PSI ABOVE SYSTEM OPERATING PRESSURE, WHICHEVER IS GREATER.
16. PROVIDE A STOCK OF SPARE SPRINKLERS OF EACH STYLE, TYPE AND TEMPERATURE RATING, ALONG WITH A SPRINKLER WRENCH OF EACH STYLE, AT THE MAIN RISER.
17. COORDINATE FIRE ALARM REQUIREMENTS FOR MONITORING WATERFLOW AND TAMPER SWITCHES WITH THE FIRE ALARM CONTRACTOR.
18. AUXILIARY DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
19. UPON COMPLETION, FIRE PROTECTION CONTRACTOR SHALL PROVIDE AS-BUILT, RED-LINED DRAWINGS SHOWING ANY REVISIONS TO THE SUBMITTED PIPING SYSTEM INCLUDING THE LOCATIONS OF ALL DRAINS AND VALVES INSTALLED DURING THE INSTALLATION OF THE PIPING.
20. SPRINKLER CONTRACTOR SHALL PROVIDE A MATERIAL SUBMITTAL FOR PIPE, SPRINKLER HEADS, VALVES AND OTHER MATERIAL AS PART OF THEIR SUBMITTAL.
21. SPRINKLER CONTRACTOR SHALL INCLUDE HYDRAULIC DESIGN INFORMATION AS PART OF THEIR SUBMITTAL INCLUDING HYDRAULIC CALCULATIONS AND PIPE SIZES.
22. FIRE PIPING AND SPRINKLER PLACEMENT ARE TO BE COORDINATED WITH PROCESS EQUIPMENT AND PLATFORMS TO ALLOW FOR MAINTENANCE ACCESS AND AVOID OBSTRUCTIONS. PLACE SPRINKLERS AS NEEDED TO ELIMINATE OBSTRUCTIONS TO SPRINKLER SPRAY PATTERN DEVELOPMENT AND MINIMIZE POTENTIAL DAMAGE TO SPRINKLERS. PLACE WIRE GUARDS ON SPRINKLERS SUBJECT TO DAMAGE FROM BUILDING OPERATIONS.

DESIGN CRITERIA

THE BUILDING SQUARE FOOTAGE IS 58,000 FT2. CONSTRUCTION TYPE IS IIB. APPENDIX B OF THE IFC ALLOWS FOR A REDUCTION (75%) IN FIRE FLOW FOR FULLY SPRINKLERED BUILDINGS.

THIS BUILDING WILL BE FULLY SPRINKLERED PER NFPA 13. THIS SCOPE IS PHASE 1 AND INCLUDES THE BASE BUILDING FIRE PROTECTION SYSTEM. SPECIFICALLY THE FIRE SPRINKLERS AT THE TOP OF THE STRUCTURE AND UNDER ANY OBSTRUCTIONS CREATED BY THE PROCESSING EQUIPMENT. PHASE 2 WILL BE FORTHCOMING AND WILL INCLUDE THE OFFICE AREA AND MEZZANINE.

PER APPENDIX B, IFC 2024, FIRE FLOW IS DETERMINED TO BE 1500 GPM. (5000 GPM REDUCED FOR A SPRINKLERED BUILDING; 1500 GPM MINIMUM.

WATER SUPPLY DATA PROVIDED BY CLIFTON WATER IS AS FOLLOWS:

STATIC PRESSURE = 130 PSI
RESIDUAL PRESSURE = 115 PSI
FLOW DURING TESTING = 1500 GPM

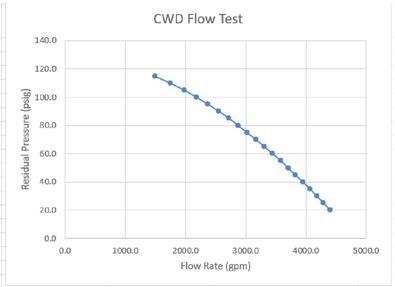
SPRINKLER DEMAND IS EXPECTED TO BE 1200 GPM (PLUS A HOSE STREAM DEMAND OF 500 GPM FOR A TOTAL OF 1700 GPM AT THE BASE OF THE RISER. THE ANTICIPATED DESIGN PRESSURE IS 50 PSI.

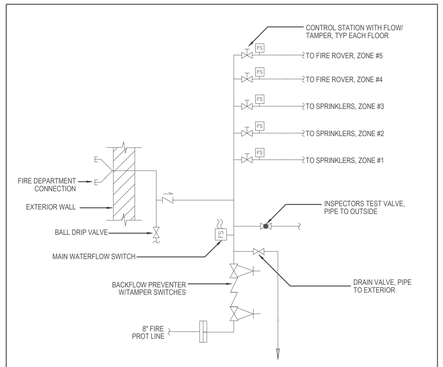
FIRE ROVER SUPPRESSION WILL BE INSTALLED IN TWO LOCATIONS - ONE ZONE IN THE MATERIAL INTAKE AREA AND ONE ZONE IN THE FINISHED PRODUCT STORAGE AREA. CREATE TWO FIRE ROVER ZONES AT THE RISER AND PIPE 4" MAINS TO THE FOUR FIRE ROVER NOZZLES (2 PER ZONE). FIRE ROVER DEMAND IS APPROX 450 GPM AT 55 PSI. (DESIGN IS SCHEMATIC AT THIS PHASE. FIRE ROVER EXACT DESIGN IS BY FIRE ROVER, PENDING A SITE VISIT). FIRE ROVER NOZZLES REQUIRE STRUCTURAL SUPPORT.

PHASE 2 NOTE

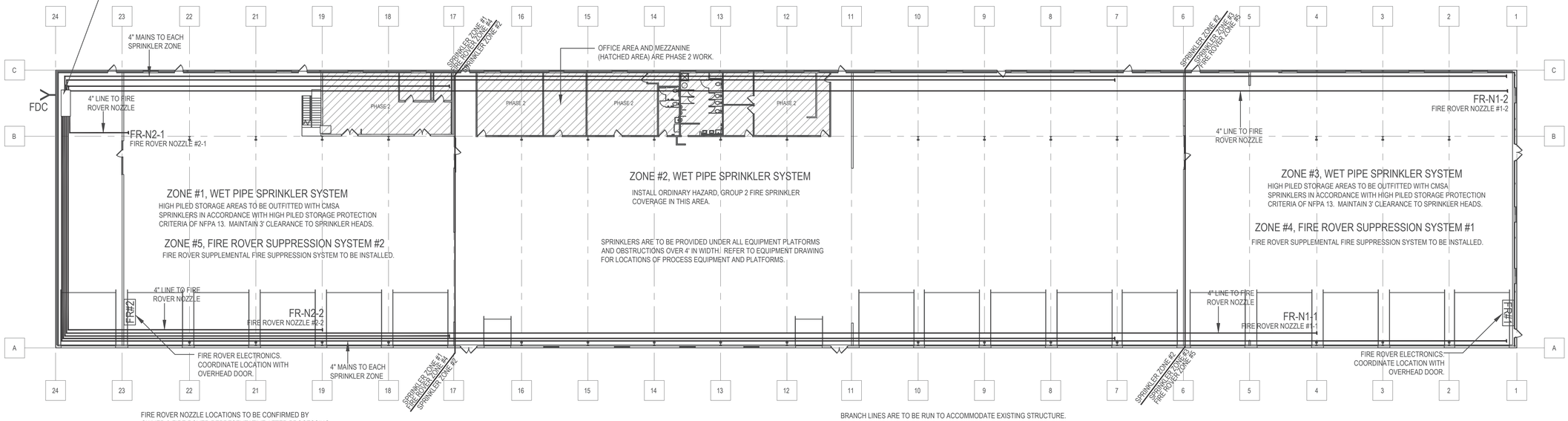
PHASE 1 IS INTENDED TO PROVIDE BASE BUILDING PROTECTION (PROTECTION AT HIGH CEILING LEVEL). PHASE 2 WILL BE COMPLETED AFTER PROCESS EQUIPMENT IS BROUGHT INTO BUILDING. IN ZONE #2 AREA, CONVEYERS WILL BE PRESENT AS WELL AS LARGE AREAS WITH SORTERS/BUNKERS CONTAINING MATERIAL UNDERGOING PROCESSING. THERE WILL BE METAL RECOVERY AREAS AND BATTERY PROCESSING AREAS. ADDITIONAL SPRINKLERS MAY BE SPECIFIED TO PROTECT THESE AREAS TO BE INSTALLED IN PHASE 2. FIRE PROTECTION CONTRACTOR SHALL INCLUDE A FACTOR OF SAFETY FOR INCORPORATION OF ADDITIONAL PROTECTION.

Flow Rate	Residual Pressure
1501.3	115.0
1753.6	110.0
1978.2	105.0
2182.8	100.0
2372.3	95.0
2549.7	90.0
2717.1	85.0
2876.2	80.0
3028.1	75.0
3173.8	70.0
3314.0	65.0
3449.3	60.0
3580.2	55.0
3707.2	50.0
3830.6	45.0
3950.6	40.0
4067.7	35.0
4181.9	30.0
4293.6	25.0
4402.8	20.0





FIRE ENTRY PIPING DIAGRAM
NO SCALE



FIRE ROVER NOZZLE LOCATIONS TO BE CONFIRMED BY OWNER & FIRE ROVER REPRESENTATIVE AFTER PROCESSING EQUIPMENT IS INSTALLED AND SITE VISIT IS COMPLETED.

BRANCH LINES ARE TO BE RUN TO ACCOMMODATE EXISTING STRUCTURE. SPACE BRANCH LINES AT 12-1/2' INTERVALS, IN LINE WITH EXISTING STRUCTURAL MEMBERS. COORDINATE WITH STRUCTURAL DRAWINGS. FIRE PROTECTION SUBMITTAL TO BE REVIEWED BY FIRE PROTECTION AND STRUCTURAL ENGINEERS PRIOR TO SUBMITTAL TO FIRE DEPARTMENT.

NORTH

FLOOR PLAN

1" = 20'

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FIRE PROTECTION PLAN - OVERALL

BP01-FOR CONSTRUCTION

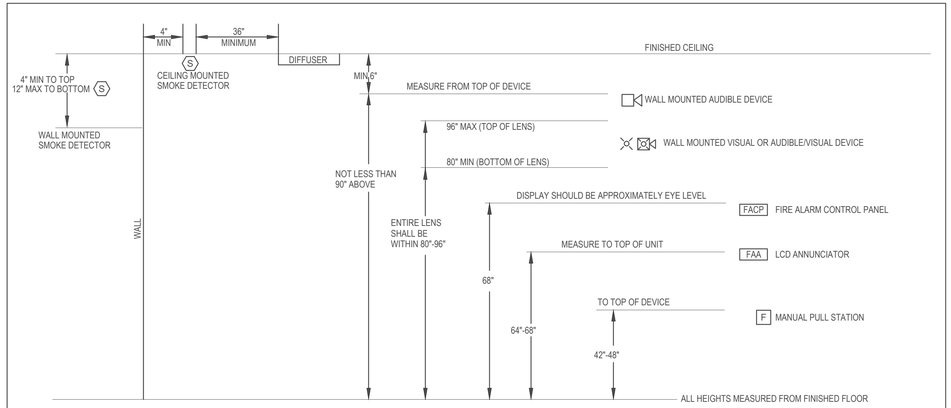
REV.	DESC.	DATE:

DATE: 2/2/2026
PROJECT #: 25034
SHEET #:
FP1-0

Project Team:
Print Date: 2/2/2026

FIRE ALARM LEGEND:

SYMBOL	DEVICE DESCRIPTION
FACP	Fire Alarm Control Panel
FAA	Fire Alarm Annunciator
F	Manual Pull Station
AIM	Monitor Module
AOM	Control Relay
H	Heat Detector
S	Photoelectric Smoke Detector
DH	Door Holder
	Fire Alarm Horn/Strobe
	Fire Alarm Strobe
WP	Weatherproof Horn/Strobe
	Sprinkler Waterflow Switch
	Sprinkler Valve Tamper Switch
S	Duct Detector
RTS	Duct Detector Remote Test Station
CO	Carbon Monoxide Detector



STANDARD MOUNTING HEIGHT DETAIL

NOT TO SCALE

MOUNTING HEIGHT NOTES:
1. MOUNTING HEIGHTS ARE PER NFPA 72 AND ADA ACCESSIBILITY GUIDELINES.
2. REMOTE LIGHTS AND REMOTE TEST STATIONS SHALL BE MOUNTED ON THE WALL BELOW ITS ASSOCIATED DEVICE & SHALL BE CLEARLY VISIBLE.
3. ADDRESSABLE MODULES SHALL BE MOUNTED AS TO BE ACCESSIBLE.
4. IN ADA UNITS, 110CD STROBES MUST BE MOUNTED 24" BELOW THE CEILING.
5. MOUNT EXTERIOR HORN/STROBES 10' ABOVE FIRE DEPARTMENT CONNECTION.

FIRE ALARM GENERAL NOTES

1. THIS BUILDING SHALL BE PROVIDED WITH AN ADDRESSABLE FIRE ALARM SYSTEM, DESIGNED, INSTALLED AND TESTED PER NFPA 72 REQUIREMENTS AND IN ACCORDANCE WITH THE STANDARDS OF GRAND JUNCTION FIRE DEPARTMENT.
2. ALL EQUIPMENT USED ON THIS PROJECT SHALL BE UL LISTED FOR USE IN FIRE ALARM SYSTEMS.
3. FIRE ALARM DEVICES SHALL BE COORDINATED WITH ALL LIGHTING FIXTURES AND CEILING SYSTEMS.
4. PLANS ARE CONCEPTUAL ONLY. FIRE ALARM CONTRACTOR SHALL REFER TO SPECIFICATIONS AND APPLICABLE CODES AND STANDARDS.
5. CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR SUBMITTAL TO THE AUTHORITY HAVING JURISDICTION, GENERAL CONTRACTOR, FIRE PROTECTION ENGINEER AND ARCHITECT BEFORE BEGINNING WORK.
6. CONTRACTOR SHALL TAKE NO ADVANTAGE OF ANY APPARENT ERROR OR OMISSION AND SHALL IMMEDIATELY NOTIFY ARCHITECT. ARCHITECT WILL THEN MAKE SUCH CORRECTIONS AND/OR INTERPRETATIONS AS MAY BE NECESSARY FOR FULFILLING INTENT OF PLANS AND SPECIFICATIONS.
7. COORDINATE ALL WORK WITH OTHER TRADES.
8. PROVIDE OWNER WITH THE NECESSARY INSTRUCTION MANUALS FOR THE UPKEEP OF THE SYSTEM.
9. INSTALL ONLY NEW EQUIPMENT AND WIRING.
10. UPON COMPLETION, FIRE PROTECTION CONTRACTOR SHALL PROVIDE AS-BUILT, RED-LINED DRAWINGS DEPICTING ACCURATE SYSTEM INSTALLATION.
11. FIRE ALARM CONTRACTOR SHALL PROVIDE A MATERIAL SUBMITTAL FOR ALL EQUIPMENT AND WIRING TO BE INSTALLED AS PART OF THEIR SUBMITTAL.
12. COORDINATE FIRE ALARM SYSTEM WITH MECHANICAL PLANS. PROVIDE A DUCT DETECTOR ON FANS OVER 2000CFM, TO BE SHUTDOWN UPON ACTIVATION. COORDINATE CONTROL OF FIRE/SMOKE DAMPERS WITH MECHANICAL PLANS.
13. THE FIRE ALARM CONTRACTOR MUST HAVE AN OFFICE OR SHOP CAPABLE OF PROVIDING SERVICE WITHIN 100 MILES OF THE PROJECT SITE IN GRAND JUNCTION, CO. SERVICE CAPABILITIES MUST INCLUDE A FACTORY CERTIFIED TECHNICIAN WITH AT LEAST NICET LEVEL II CERTIFICATION AT THE OFFICE OR SHOP.

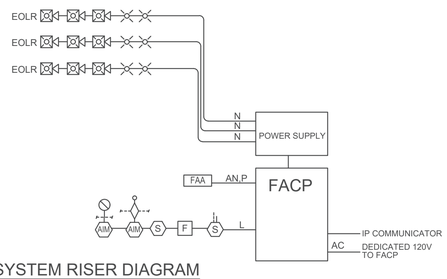
PHASE 2 NOTE

PHASE 1 IS INTENDED TO PROVIDE A BASE BUILDING FIRE ALARM SYSTEM. PHASE 2 WILL BE COMPLETED AFTER PROCESS EQUIPMENT IS BROUGHT INTO BUILDING. IN AREAS B & C, CONVEYERS WILL BE PRESENT AS WELL AS LARGE AREAS WITH SORTERS/BUNKERS CONTAINING MATERIAL UNDERGOING PROCESSING. THERE WILL BE METAL RECOVERY AREAS AND BATTERY PROCESSING AREAS. SPECIALTY DETECTION MAY BE ADDED DURING PHASE 2 SUCH AS IR/FLAME DETECTION.

FIRE ALARM WIRE TYPE CHART

Label	Description	Suggested Wire Type
AC	120VAC Power Wiring	3#12 AWG Solid (w/Ground)
L	Signaling Line Circuit	#18 AWG Twisted Pair
P	24VDC Power Wiring	2#14 AWG Solid
N	Notification Appliance (Strobe) Wiring	2#14 AWG Solid
V	Notification Appliance (Speaker) Wiring	2#14 AWG Solid
X	Auxiliary Circuit (Relay) Wiring	2#14 AWG Solid
Z	Indicating Device Circuit (Zone) Wiring	2#16 AWG Solid
A	Annunciator Wiring	2#18 AWG Solid

1. NO T-TAPPING PERMITTED ON ANY CIRCUIT, UNLESS ALLOWED BY MANUFACTURER.
2. WIRING SHALL BE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.



SYSTEM RISER DIAGRAM

TYPICAL. DOES NOT REPRESENT ALL POWER SUPPLIES, DEVICES OR CIRCUITS.

EMERGENCY RESPONDER RADIO COVERAGE GENERAL NOTES

1. THIS PROJECT REQUIRES EMERGENCY RESPONSE RADIO COVERAGE. TESTING SHALL BE COMPLETED AT THE COMPLETION OF CONSTRUCTION TO DETERMINE FUNCTIONALITY OF EMERGENCY RESPONDER RADIOS. IF TESTING FAILS, AN ERRC SYSTEM WILL BE REQUIRED.

Fire Alarm Sequence of Operations

SYSTEM INPUTS		SYSTEM OUTPUTS												
		Actuate Alarm Signal Indicator at FACP	Actuate Supervisory Signal Indicator at FACP	Actuate Trouble Signal Indicator at FACP	Transmit Fire Alarm Signal to Central Station	Transmit Carbon Monoxide Alarm to Central Station	Transmit Supervisory Signal to Central Station	Transmit Trouble Signal to Central Station	Silence Audible Signals & Turn off Strobes	Activate horns and strobes throughout building	Activate weatherproof horn/strobe above FDC	Activate a local temporal 4 signal at the device	Shutdown HVAC Unit	
	SYSTEM INPUTS	A	B	C	D	E	F	G	H	J	K	L	M	
1	Manual Pull Station	X			X					X				1
2	Smoke Detector	X			X					X				2
3	Duct Detector - at HVAC unit		X				X						X	3
4	Carbon Monoxide Detector	X				X						X		4
5	Sprinkler Waterflow	X			X					X	X			5
6	Sprinkler Tamper Switch		X				X							6
7	AC Power Failure			X				X						7
8	FACP Low Battery			X				X						8
9	Open Circuit			X				X						9
10	Ground Fault			X				X						10
11	Notification Appliance Circuit Short			X				X						11
12	Alarm Signal Silence								X					12
		A	B	C	D	E	F	G	H	J	K	L	M	

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FIRE ALARM COVER SHEET

BP01-FOR CONSTRUCTION

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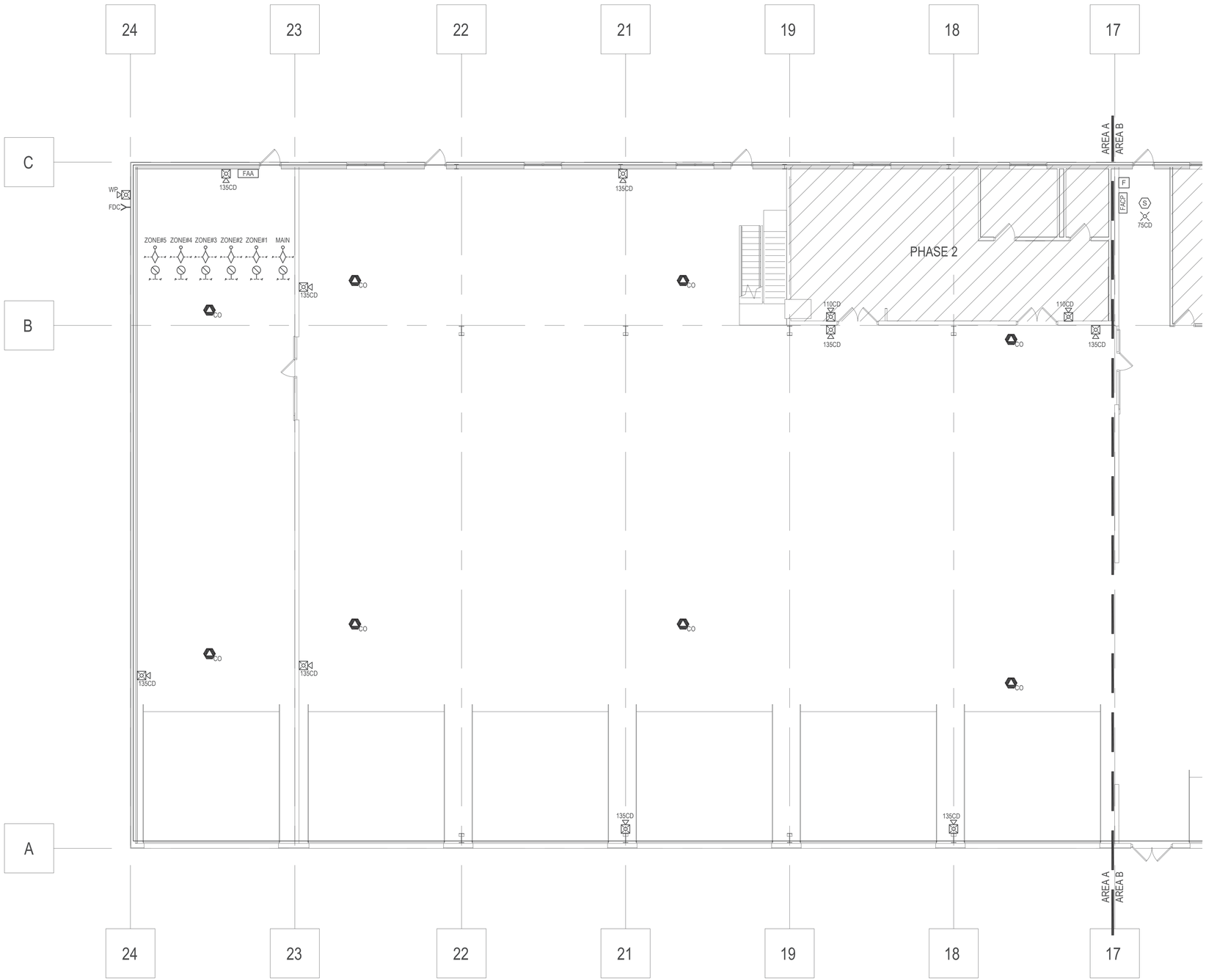
DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

FA0-0

Project Team:
Print Date: 2/2/2026



NORTH

FIRE ALARM FLOOR PLAN

1/8" = 1'

KEYPLAN

A | B | C | D

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FIRE ALARM FLOORPLAN

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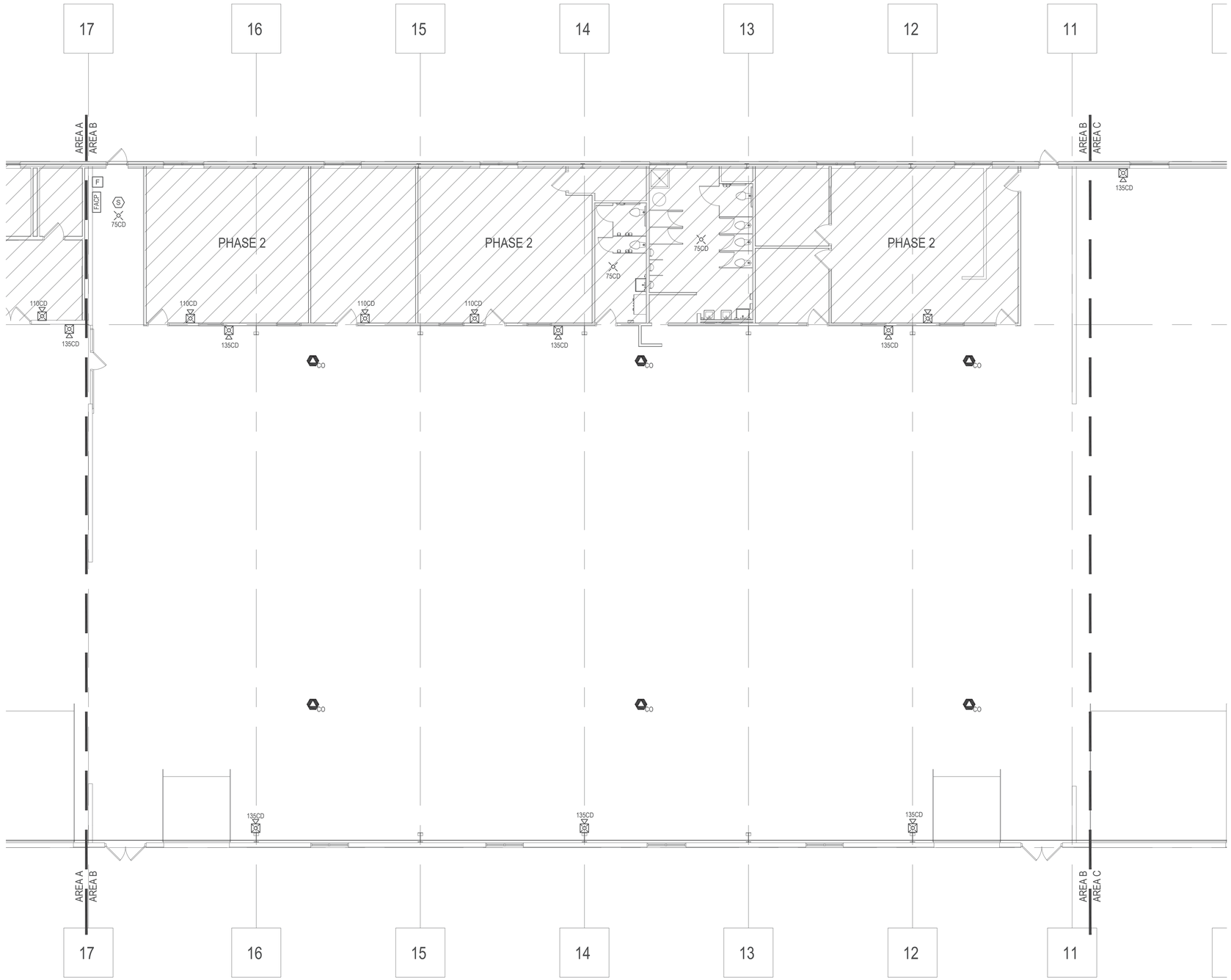
DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

FA1-1

Project Team:
Print Date: 2/2/2026



NORTH

FIRE ALARM FLOOR PLAN

1/8" = 1'

A	B	C	D

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FIRE ALARM FLOORPLAN

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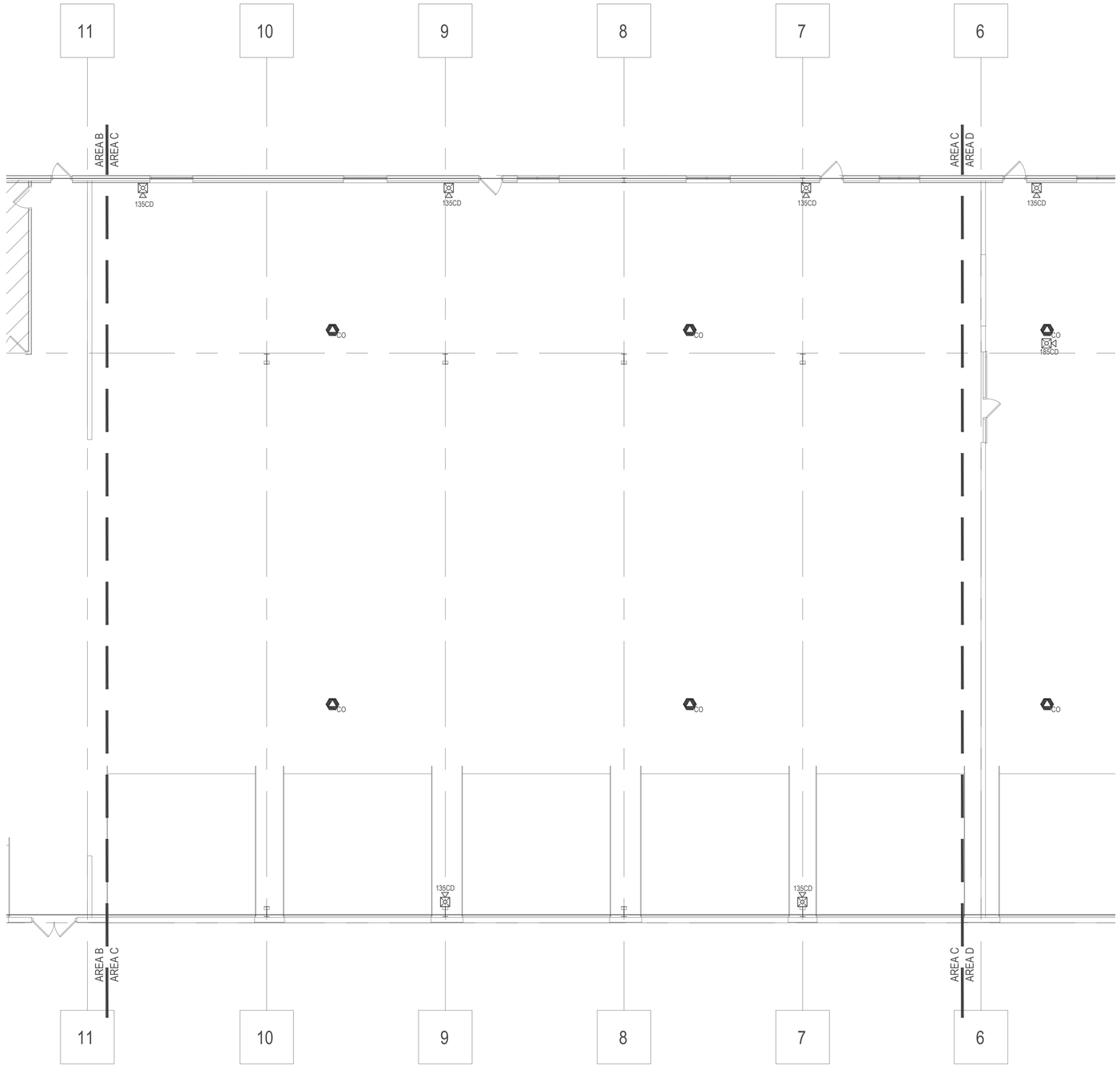
PROJECT #: 25034

SHEET #:

FA1-2

Project Team:

Print Date: 2/2/2026



NORTH

FIRE ALARM FLOOR PLAN

1/8" = 1'

A	B	C	D

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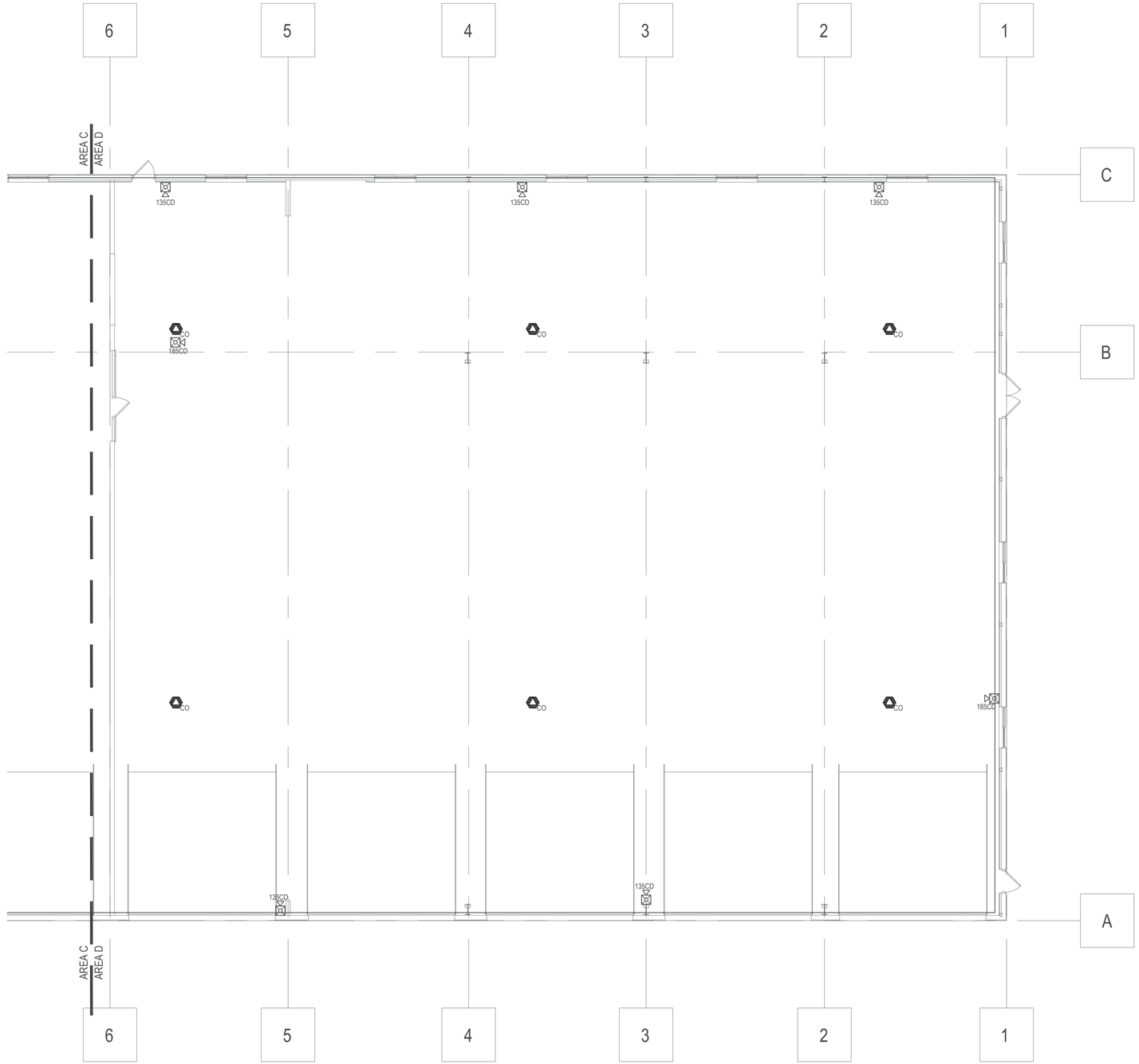
PROJECT #: 25034

SHEET #:

FA1-3

Project Team:

Print Date: 2/2/2026



NORTH

FIRE ALARM FLOOR PLAN

1/8" = 1'

A	B	C	D

KEYPLAN

BG+ co.

Architecture
Interior Design
Project Management

622 Rood Avenue
Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

Shaner Life Safety
PO Box 322, Salida, Colorado 81201
DSHANER@SHANERLIFESAFETY.COM, (970) 409-9082

CITY OF GRAND JUNCTION - MATERIALS RECOVERY FACILITY

365 32 RD, GRAND JUNCTION, CO 81520

FIRE ALARM FLOORPLAN

BP01-FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/2/2026

PROJECT #: 25034

SHEET #:

FA1-4

Project Team:
Print Date: 2/2/2026