

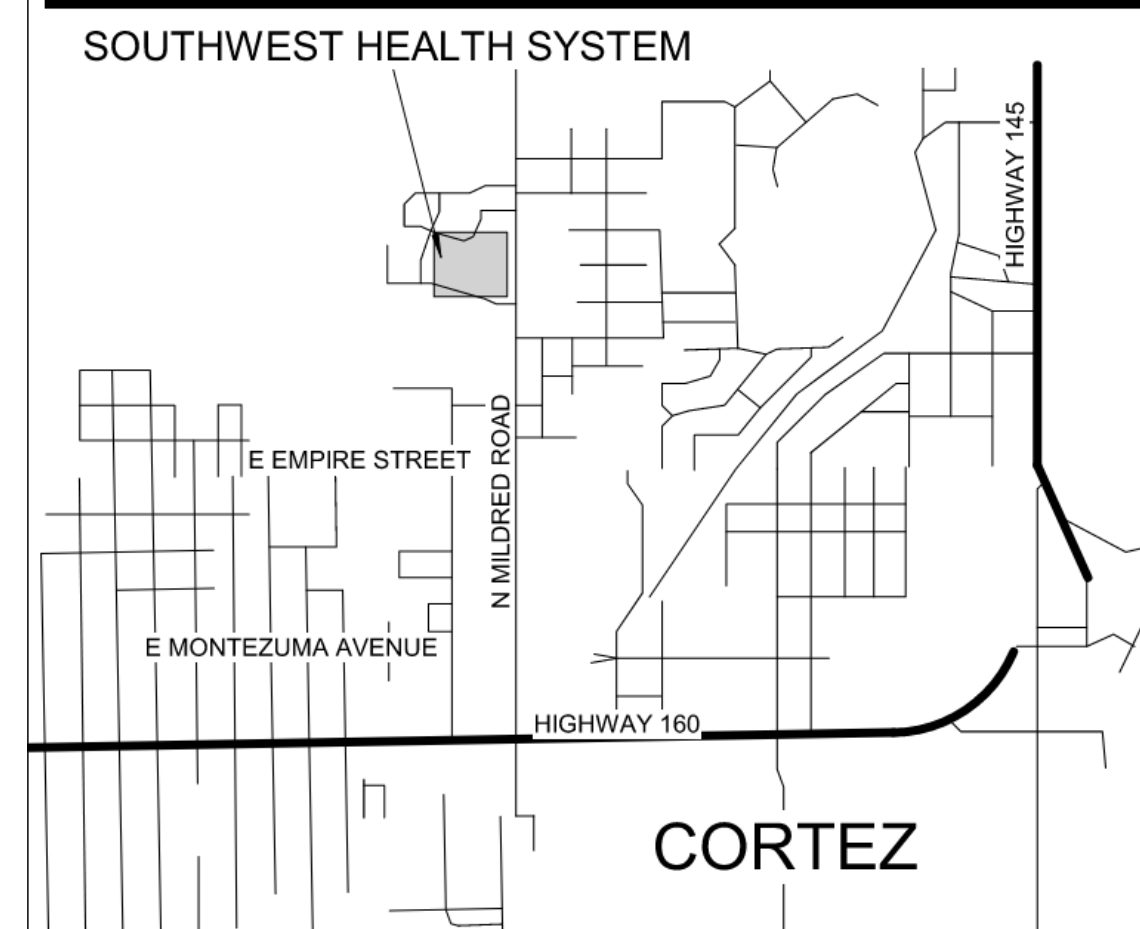
GENERAL NOTES

- IF DISCREPANCIES OCCUR BETWEEN DRAWINGS OR BETWEEN THE DRAWINGS AND SPECIFICATIONS, SUBMIT AN RFI FOR RESOLUTION.
- DO NOT SCALE THE DRAWINGS. SUBMIT AN RFI IF CRITICAL DIMENSIONS DO NOT APPEAR ON THE DRAWINGS.
- THE BUILDING EXTERIOR IS DEFINED BASED ON A SYSTEMS METHODOLOGY. REFER TO A-700 DRAWING SERIES FOR COMPONENTS THAT COMPRISE EACH SYSTEM.
- PROVIDE ISOLATION BETWEEN ALL DISSIMILAR METALS WHERE THEY OCCUR TO PREVENT ELECTROLYTIC REACTION AND CORROSION.
- VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER FOR EQUIPMENT THAT IS EXISTING, REUSED, OR FURNISHED BY OWNER.

DEFINITIONS

- ALIGN** TO ACCURATELY LOCATE FACE BASED ON ADJACENT ITEMS OR CONSTRUCTION
- MAXIMUM** THE CONDITION MAY NOT VARY TO A DIMENSION GREATER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT
- MINIMUM** THE CONDITION MAY NOT VARY TO A DIMENSION SMALLER THAN THAT SHOWN WITHOUT THE APPROVAL OF THE ARCHITECT
- TYPICAL** THE CONDITION APPLIES TO SAME CONDITIONS THROUGHOUT UNLESS NOTED OTHERWISE

LOCATION MAP



PROJECT TEAM

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Southwest Health System
 1311 North Mildred Road
 Cortez, CO 81321

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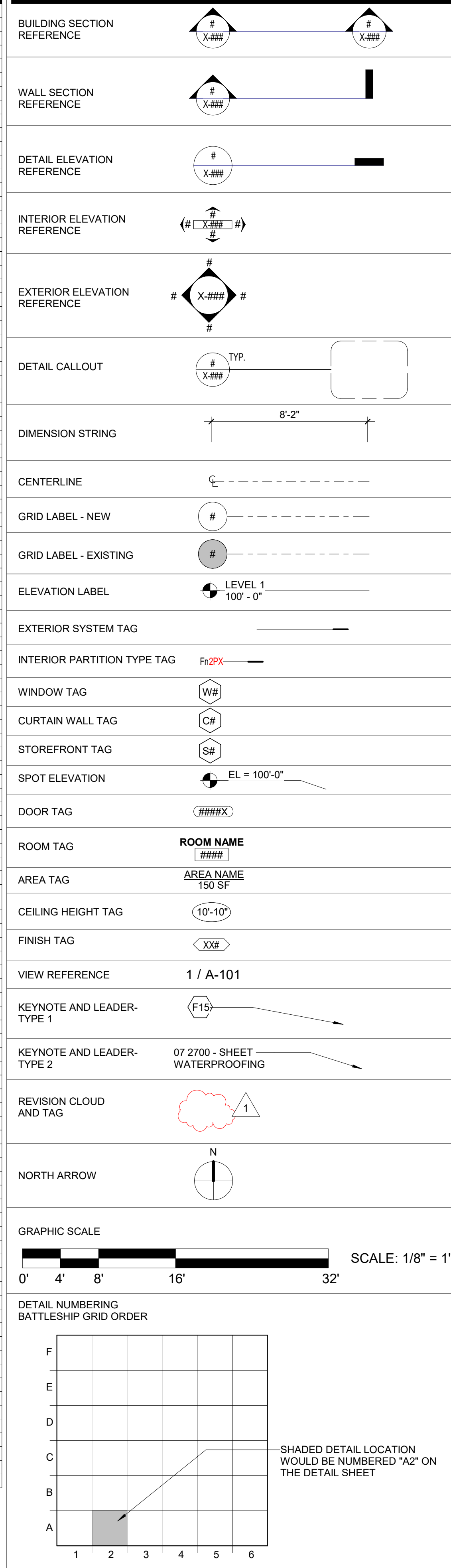
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STANDARD ABBREVIATIONS LEGEND

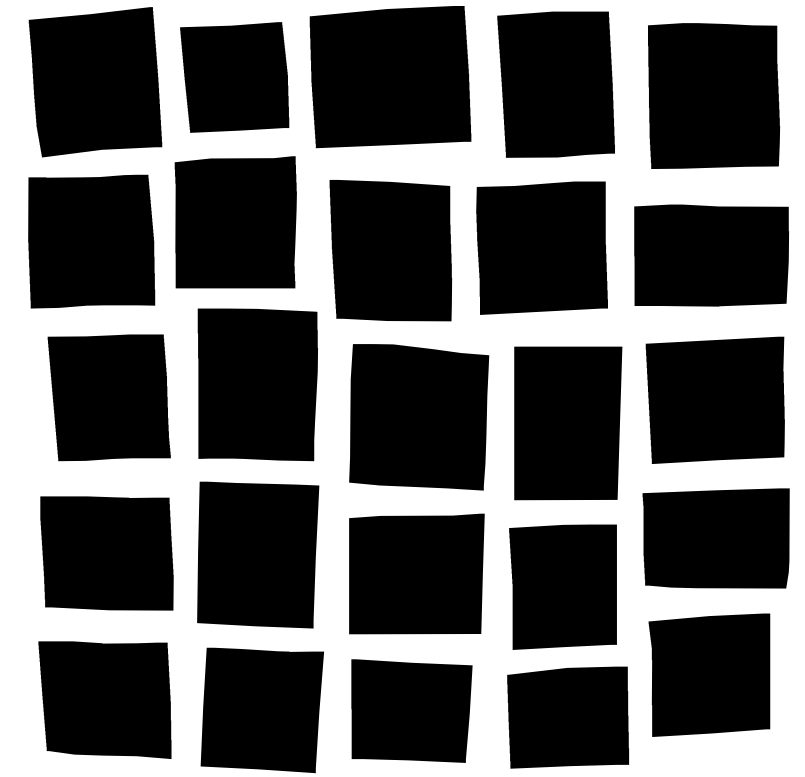
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT or ARCHITECTURAL
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS
AUX	AUXILIARY
BLDG	BUILDING
BSMT	BASEMENT
BTWN	BETWEEN
CD	CONSTRUCTION DOCUMENTS or CONTRACT DOCUMENTS
CJ	CONSTRUCTION JOINT or CONTROL JOINT
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CORR	CORRIDOR
DBL	DOUBLE
DEMO	DEMOLISH or DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION or DIMENSIONAL
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EWG	ELECTRIC WATER COOLER
EXIST	EXISTING
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIE	FURNITURE, FIXTURES AND EQUIPMENT
FHC	FIRE HOSE CABINET
GA	GAUGE
GALV	GALVANIZED
HB	HOSE BIBB
HORIZ	HORIZONTAL
HT	HEIGHT
HVAC	HEATING, VENTILATION and AIR CONDITIONING
IBC	INTERNATIONAL BUILDING CODE
JAN	JANITOR
JT	JOINT
L	ANGLE
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL and PLUMBING
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO.	NUMBER
NOTE:	FOR ADDITIONAL ABBREVIATIONS, REFER TO SPECIFICATION 01 4200 FOR COMPLETE INDUSTRY STANDARD ABBREVIATION LIST
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON-CENTER
OPNG	OPENING
OPP	OPPOSITE
PERIM	PERIMETER
PR	PAIR or PROPOSAL REQUEST
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT(ED), POST-TENSIONED SLAB or PRESSURE TREATED
QTY	QUANTITY
R	RADIUS, RISER or THERMAL RESISTANCE
RCP	REFLECTED CEILING PLAN
RD	ROAD or ROOF DRAIN
RE	REFER TO or REFERENCE
REV	REVISE, REVISED or REVISION
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT-OF-WAY
RTU	ROOFTOP UNIT
SAN	SANITARY
SF	SQUARE FOOT (FEET)
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION(S)
SQ	SQUARE
STC	SOUND TRANSMISSION CLASS
STL	STEEL
STOR	STORAGE
TO	TOP OF
TOC	TOP OF CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
WI	WITH
W/O	WITHOUT
WD	WOOD
WP	WORKING POINT
WT	WEIGHT

ARCHITECTURAL SYMBOLS LEGEND



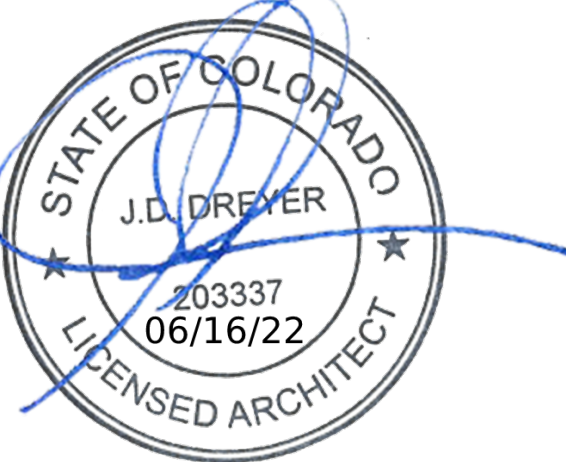
#	Name	Issuance	Sheet Issue Date	Revision Name	Revision Date
General					
G-000	COVER	CONSTRUCTION DOCUMENTS	06.16.2022		
Life Safety					
LS-101	LIFE SAFETY PLAN - LEVEL 01	CONSTRUCTION DOCUMENTS	06.16.2022		
Civil					
C100	TOPOGRAPHIC SURVEY	CONSTRUCTION DOCUMENTS	06.16.2022		
C101	SITE PLAN ENLARGEMENT - STORAGE BUILDING	CONSTRUCTION DOCUMENTS	06.16.2022		
C102	DETAILS	CONSTRUCTION DOCUMENTS	06.16.2022		
Structural					
S-100	STRUCTURAL GENERAL NOTES & DETAILS	CONSTRUCTION DOCUMENTS	06.16.2022		
S-101	FOUNDATION PLAN	CONSTRUCTION DOCUMENTS	06.16.2022		
S-102	MEZZANINE FLOOR PLAN	CONSTRUCTION DOCUMENTS	06.16.2022		
S-103	DETAILS	CONSTRUCTION DOCUMENTS	06.16.2022		
Architectural					
A-101	OVERALL FLOOR PLANS	CONSTRUCTION DOCUMENTS	06.16.2022		
A-200	EXTERIOR ELEVATIONS AND SECTIONS	CONSTRUCTION DOCUMENTS	06.16.2022		
Mechanical					
M001	MECHANICAL COVER SHEET	CONSTRUCTION DOCUMENTS	06.16.2022		
M002	MECHANICAL SHEET SPEC	CONSTRUCTION DOCUMENTS	06.16.2022		
M200	MECHANICAL PLANS	CONSTRUCTION DOCUMENTS	06.16.2022		
Electrical					
E001	ELECTRICAL COVER SHEET AND SPECIFICATIONS	CONSTRUCTION DOCUMENTS	06.16.2022		
E010	SCHEDULES, ONE-LINE DIAGRAM, AND LIGHTING COMPLIANCE	CONSTRUCTION DOCUMENTS	06.16.2022		
E200	POWER PLANS	CONSTRUCTION DOCUMENTS	06.16.2022		
E300	LIGHTING PLANS	CONSTRUCTION DOCUMENTS	06.16.2022		
Manufacturer Provided Metal Building Documents					
C1	COVER PAGE	CONSTRUCTION DOCUMENTS	06.16.2022		
C2	NOTES PAGE	CONSTRUCTION DOCUMENTS	06.16.2022		
D1	DETAIL DRAWINGS	CONSTRUCTION DOCUMENTS	06.16.2022		
D2	DETAIL DRAWINGS	CONSTRUCTION DOCUMENTS	06.16.2022		
D3	DETAIL DRAWINGS	CONSTRUCTION DOCUMENTS	06.16.2022		
D4	DETAIL DRAWINGS	CONSTRUCTION DOCUMENTS	06.16.2022		
E1	ROOF FRAMING	CONSTRUCTION DOCUMENTS	06.16.2022		
E2	CROSS SECTION	CONSTRUCTION DOCUMENTS	06.16.2022		
E3	SIDEWALL ELEVATION	CONSTRUCTION DOCUMENTS	06.16.2022		
E4	SIDEWALL ELEVATION	CONSTRUCTION DOCUMENTS	06.16.2022		
E5	ENDWALL ELEVATION	CONSTRUCTION DOCUMENTS	06.16.2022		
E6	ENDWALL ELEVATION	CONSTRUCTION DOCUMENTS	06.16.2022		
F1	ANCHOR ROD PLAN	CONSTRUCTION DOCUMENTS	06.16.2022		
F2	REACTIONS	CONSTRUCTION DOCUMENTS	06.16.2022		

- PRE-ENGINEERED METAL BUILDING NOTES:**
- PRE-ENGINEERED METAL BUILDING SHALL BE CONSIDERED OWNER PROVIDED, CONTRACTOR INSTALLED.
 - METAL BUILDING ERECTION DRAWINGS FROM THE MANUFACTURER ARE INCLUDED AS AN APPENDIX IN THIS DRAWING SET.
 - THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR UNLOADING THE METAL BUILDING COMPONENTS UPON DELIVERY. DELIVERY TIMES ARE AUGUST 24 FOR THE BUILDING COMPONENTS AND MID-SEPTEMBER FOR BUILDING INSTALLATION.
 - THERE IS ROOM ON THE HOSPITAL PROPERTY TO STORE THE BUILDING COMPONENTS AFTER IT IS DELIVERED AND BEFORE ITS ERECTED.
 - THE METAL BUILDING MANUFACTURER WILL PROVIDE THE STRUCTURAL FRAMING, EXTERIOR METAL WALL AND ROOF PANELS, INSULATION, (2) 3'-0"x7'-0" MAN DOORS, DOWNSPOUTS AND GUTTERS.



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 303.861.8555



Issue Date: **06.16.2022**

Project: **22305.00.000**

SHS - STORAGE BUILDING

1311 N Mildred Rd,
 Cortez, CO 81321

Original Issuance: **CONSTRUCTION DOCUMENTS**

EXIT ACCESS PATH OF TRAVEL SUMMARY - LEVEL 01

PATH #	PATH LENGTH	MIN. EXIT SEPARATION	MAX. COMMON PATH	MAX. DEADEND CORRIDOR	MAX. TRAVEL DISTANCE
01	103'-2"	0'	0'	0'	200'-0"
02a	68'-3"	0'	0'	0'	200'-0"
02b	57'-6"	0'	0'	0'	200'-0"

EXIT ACCESS PATH OF TRAVEL SUMMARY - LEVEL 01

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LIFE SAFETY LEGEND

LIFE SAFETY ANNOTATION SYMBOLS

LIFE SAFETY NOTES

INCIDENTAL ACCESSORY OCCUPANCY NOTES

FIRE SAFETY COMPONENTS (COORDINATE FINAL LOCATIONS WITH LOCAL FIRE DEPARTMENT)

- FEB FIRE EXTINGUISHER BRACKET
- FEC FIRE EXTINGUISHER CABINET
- FVC FIRE VALVE CABINET
- FDC FIRE DEPARTMENT CONNECTION
- STP STANDPIPE

EGRESS COMPONENTS

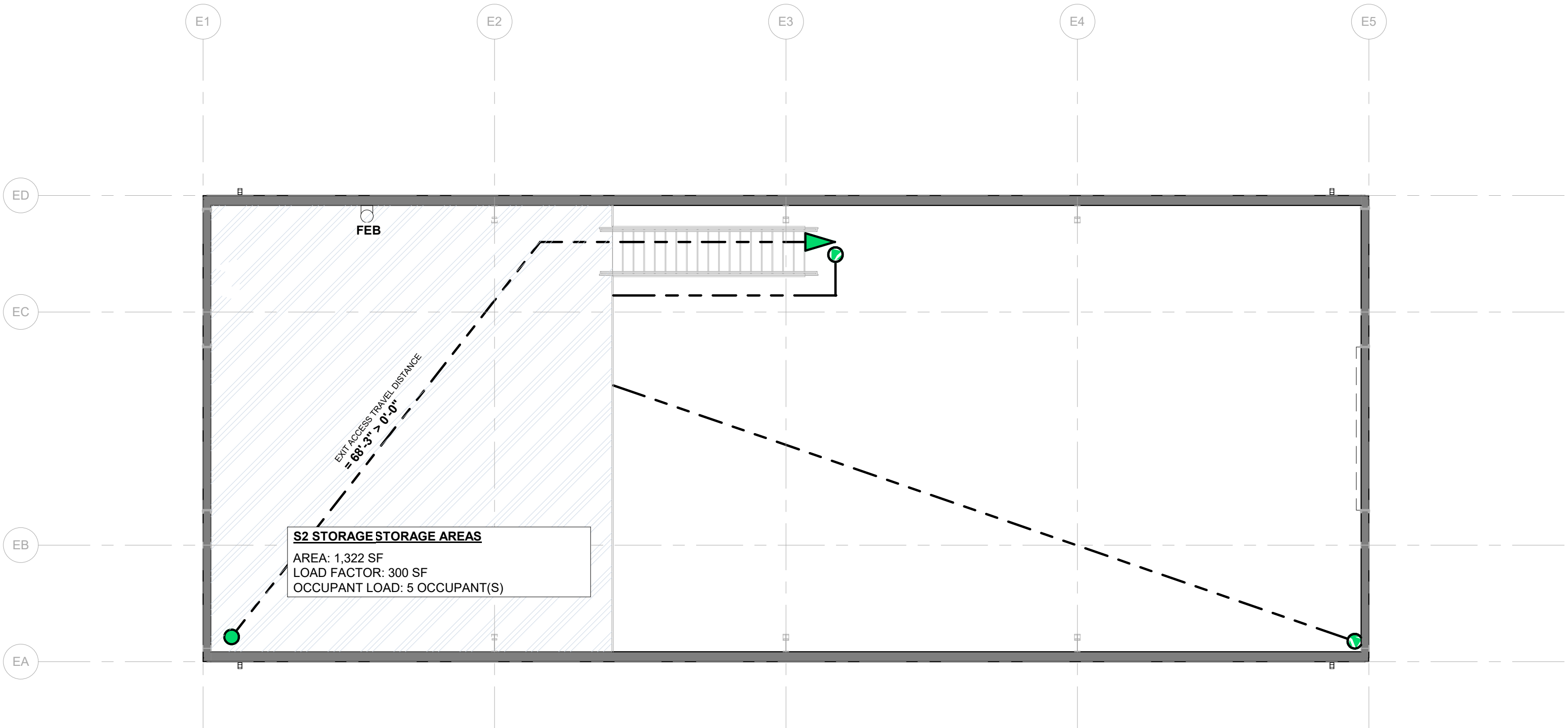
- EA## EXIT ACCESS TRAVEL DISTANCE = 60'-0" < 250' MAX.
- SC## EXIT ACCESS TRAVEL DISTANCE = 60'-0" < 150' MAX.
- CS## EXIT ACCESS TRAVEL DISTANCE = 60'-0" < 120' MAX.
- CP## COMMON PATH OF EGRESS TRAVEL = 60'-0" < 125' MAX.
- DE1 DEAD END CORRIDOR DISTANCE = 15'-0" < 20' MAX.

ADDITIONAL IDENTIFIERS

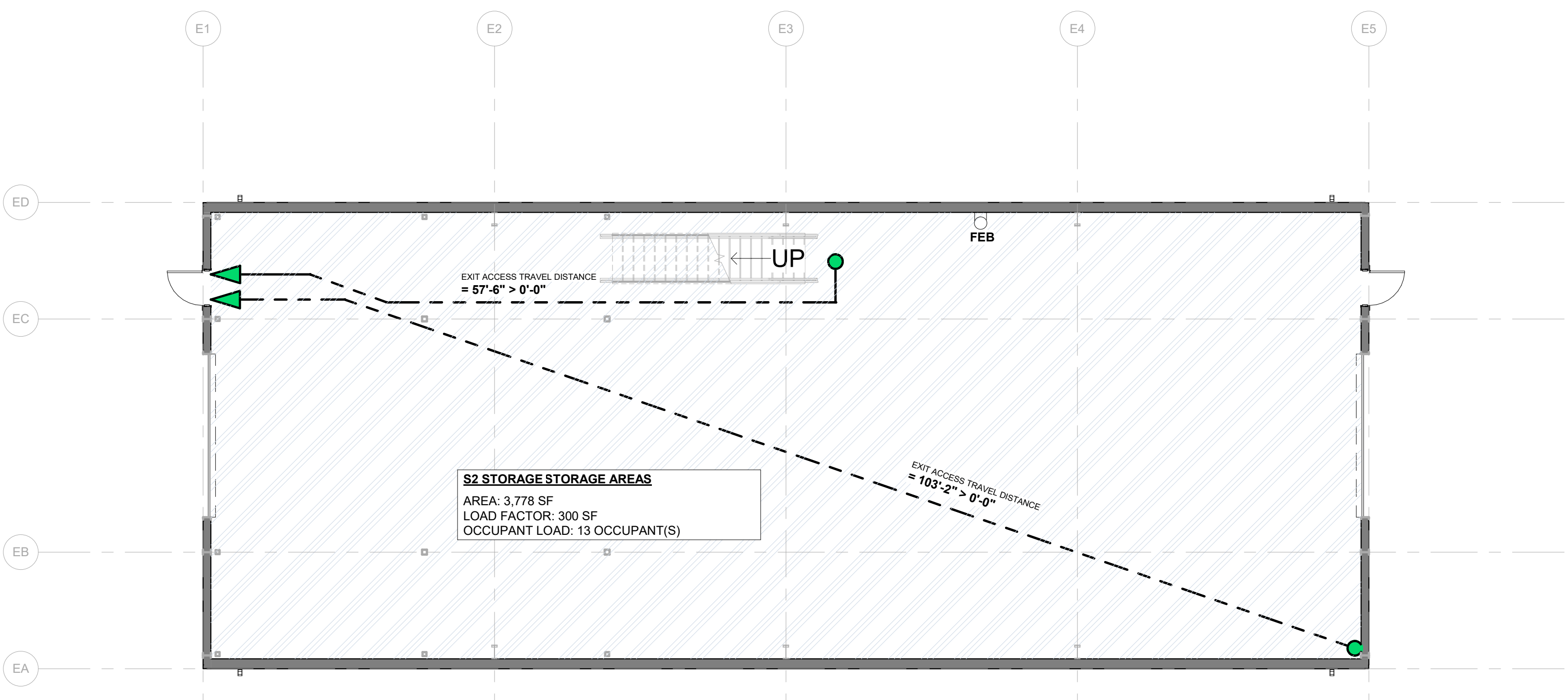
- H-1 HAZARDOUS AREAS
- H-2 HAZARDOUS AREAS
- H-3 HAZARDOUS AREAS
- HORIZONTAL SHAFTWALL ASSEMBLY ABOVE
- 8'-0" CORRIDOR REQUIRED HEALTHCARE
- 6'-0" CORRIDOR ADJUNCT AREAS

FIRE RATED WALL LEGEND

FIRE PARTITION (P)	RATING	DESCRIPTION
FIRE PARTITION (P)	5HR	1/2 HOUR AT FIRE PARTITIONS; 1/2 HOUR AT CORRIDOR WALLS
	1HR	1/2 HOUR AT CORRIDOR WALLS; 1/2 HOUR AT OTHER FIRE PARTITIONS
	2HR	1 1/2 HOUR
FIRE WALL (W)	3HR	3 HOUR
	4HR	3 HOUR
FIRE BARRIER (B)	1HR	1 HOUR AT SHAFT, EXIT ENCLOSURE; EXIT PASSAGEWAY WALLS; 1/2 HOUR AT OTHER FIRE BARRIERS
	2HR	1 1/2 HOUR
	3HR	3 HOUR
EXTERIOR FIRE RESISTANCE RATED WALL (R)	1HR	
	2HR	
	3HR	
LOAD BEARING EXTERIOR FIRE RESISTANCE RATED WALL (E)	1HR	
	2HR	
	3HR	
LOAD BEARING INTERIOR FIRE RESISTANCE RATED WALL (I)	1HR	
	2HR	
	3HR	
EXISTING RATED WALL (HALFTONE)		
HORIZONTAL EXIT MODIFIER (M)		
SMOKE PARTITION (S)		
SMOKE BARRIER (SB)		
WALL RESISTING THE PASSAGE OF SMOKE (W)		
NEW WALL		
EXISTING WALL (HALFTONE)		



C2 LIFE SAFETY PLAN - LEVEL 2 MEZZANINE
1/8" = 1'-0"



A2 LIFE SAFETY PLAN - LEVEL 1
1/8" = 1'-0"



Consultant(s)

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Issuance Date

CONSTRUCTION 06.16.2022
DOCUMENTS

Revisions Date No.

Project Information

SHS - STORAGE BUILDING
1311 N. Mildred Rd.,
Cortez, CO 81321

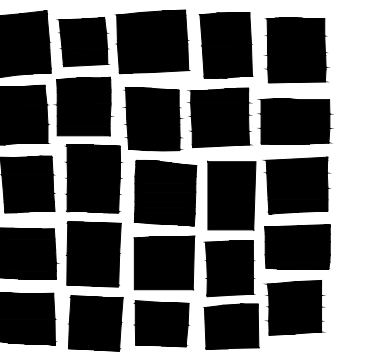
Sheet Information

Sheet Title:
LIFE SAFETY PLAN - LEVEL 01

Sheet Number:

LS-101

DPA Project: 22305.00.000



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Project Information

SHS - STORAGE BUILDING
1311 N Mildred Rd,
Cortez, CO 81321

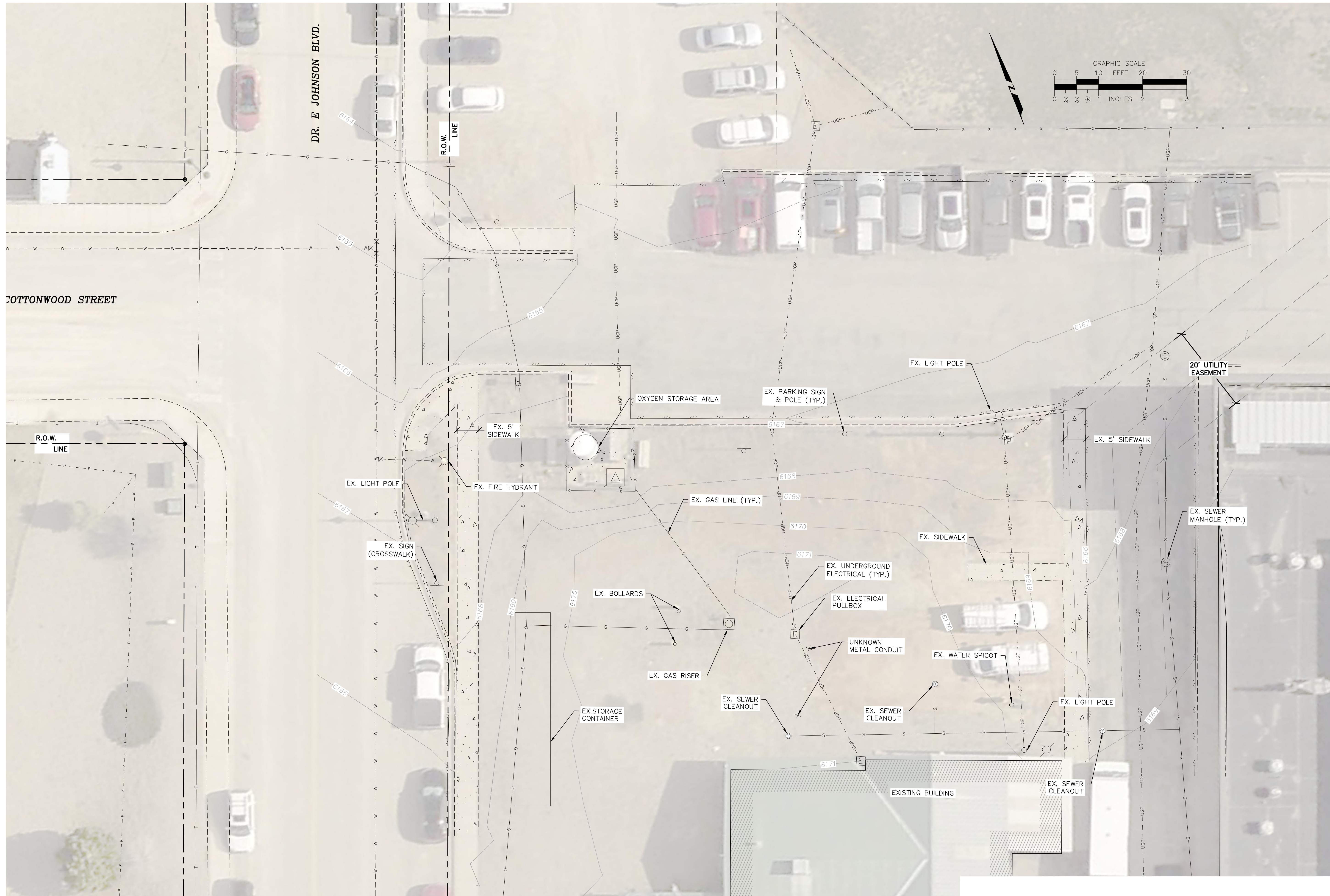
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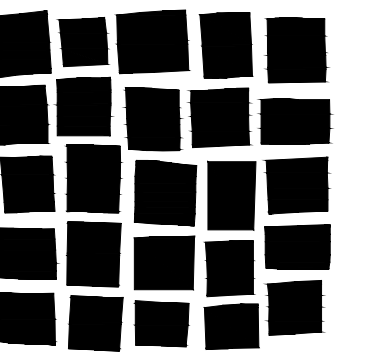
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DPA Project: 22305.00.000



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Project Information

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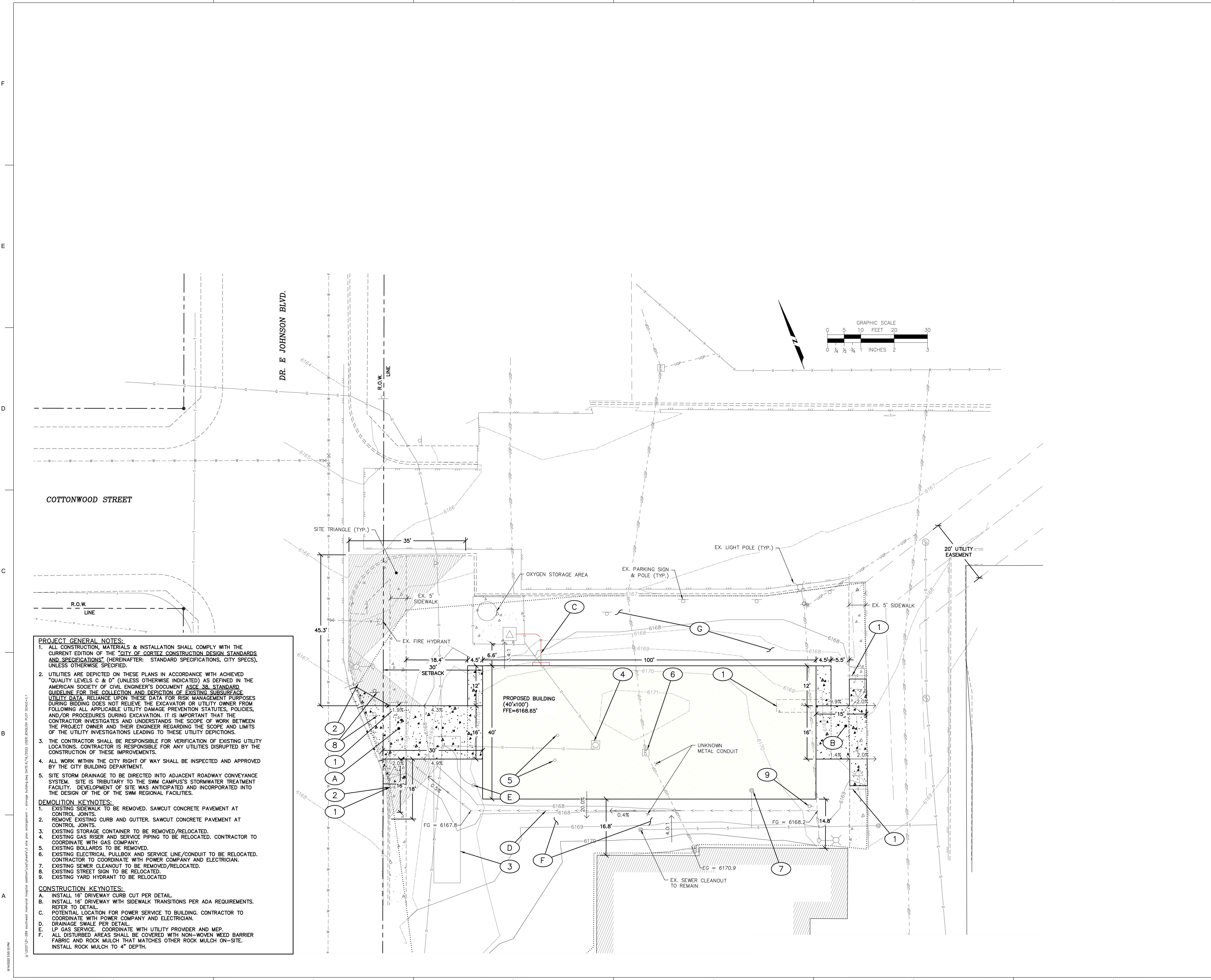
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**SITE PLAN
ENLARGEMENT -
STORAGE BUILDING**

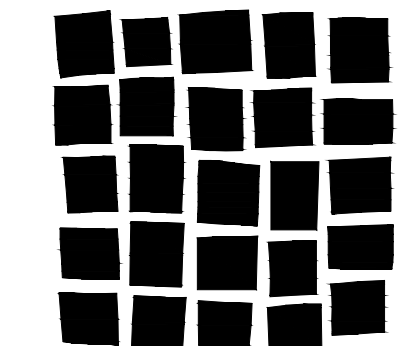
Sheet Number:

C101

DPA Project: 22305.00.000



- PROJECT GENERAL NOTES:**
1. ALL CONSTRUCTION, MATERIALS & INSTALLATION SHALL COMPLY WITH THE CURRENT EDITION OF THE "CITY OF CORTEZ CONSTRUCTION DESIGN STANDARDS AND SPECIFICATIONS" (HEREINAFTER: STANDARD SPECIFICATIONS, CITY SPECS), UNLESS OTHERWISE SPECIFIED.
 2. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH ACHIEVED "QUALITY LEVELS C & D" (UNLESS OTHERWISE INDICATED) AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS' DOCUMENT A308. STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF EXISTING UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY UTILITIES DISRUPTED BY THE CONSTRUCTION OF THESE IMPROVEMENTS.
 4. ALL WORK WITHIN THE CITY RIGHT OF WAY SHALL BE INSPECTED AND APPROVED BY THE CITY BUILDING DEPARTMENT.
 5. SITE STORM DRAINAGE TO BE DIRECTED INTO ADJACENT ROADWAY CONVEYANCE SYSTEM. SITE IS TRIBUTARY TO THE SWM CAMPUS'S STORMWATER TREATMENT FACILITY. DEVELOPMENT OF SITE WAS ANTICIPATED AND INCORPORATED INTO THE DESIGN OF THE SWM REGIONAL FACILITIES.
- DEMOLITION KEYNOTES:**
1. EXISTING SIDEWALK TO BE REMOVED. SAWCUT CONCRETE PAVEMENT AT CONTROL JOINTS.
 2. REMOVE EXISTING CURB AND GUTTER. SAWCUT CONCRETE PAVEMENT AT CONTROL JOINTS.
 3. EXISTING STORAGE CONTAINER TO BE REMOVED/RELOCATED.
 4. EXISTING GAS RISER AND SERVICE PIPING TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH GAS COMPANY.
 5. EXISTING BOLLARDS TO BE REMOVED.
 6. EXISTING ELECTRICAL PULLBOX AND SERVICE LINE/CONDUIT TO BE RELOCATED. CONTRACTOR TO COORDINATE WITH POWER COMPANY AND ELECTRICIAN.
 7. EXISTING SEWER CLEANOUT TO BE REMOVED/RELOCATED.
 8. EXISTING STREET SIGN TO BE RELOCATED.
 9. EXISTING YARD HYDRANT TO BE RELOCATED.
- CONSTRUCTION KEYNOTES:**
- A. INSTALL 16" DRIVEWAY CURB CUT PER DETAIL.
 - B. INSTALL 16" DRIVEWAY WITH SIDEWALK TRANSITIONS PER ADA REQUIREMENTS. REFER TO DETAIL.
 - C. POTENTIAL LOCATION FOR POWER SERVICE TO BUILDING. CONTRACTOR TO COORDINATE WITH POWER COMPANY AND ELECTRICIAN.
 - D. DRAINAGE SWALE PER DETAIL.
 - E. LP GAS SERVICE. COORDINATE WITH UTILITY PROVIDER AND MFP.
 - F. ALL DISTURBED AREAS SHALL BE COVERED WITH NON-WOVEN WEED BARRIER FABRIC AND ROCK MULCH THAT MATCHES OTHER ROCK MULCH ON-SITE. INSTALL ROCK MULCH TO 4" DEPTH.



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Issuance **Date**

CONSTRUCTION 06.16.2022
DOCUMENTS

Revisions **Date** **No.**

Project Information

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Cortez, CO 81321

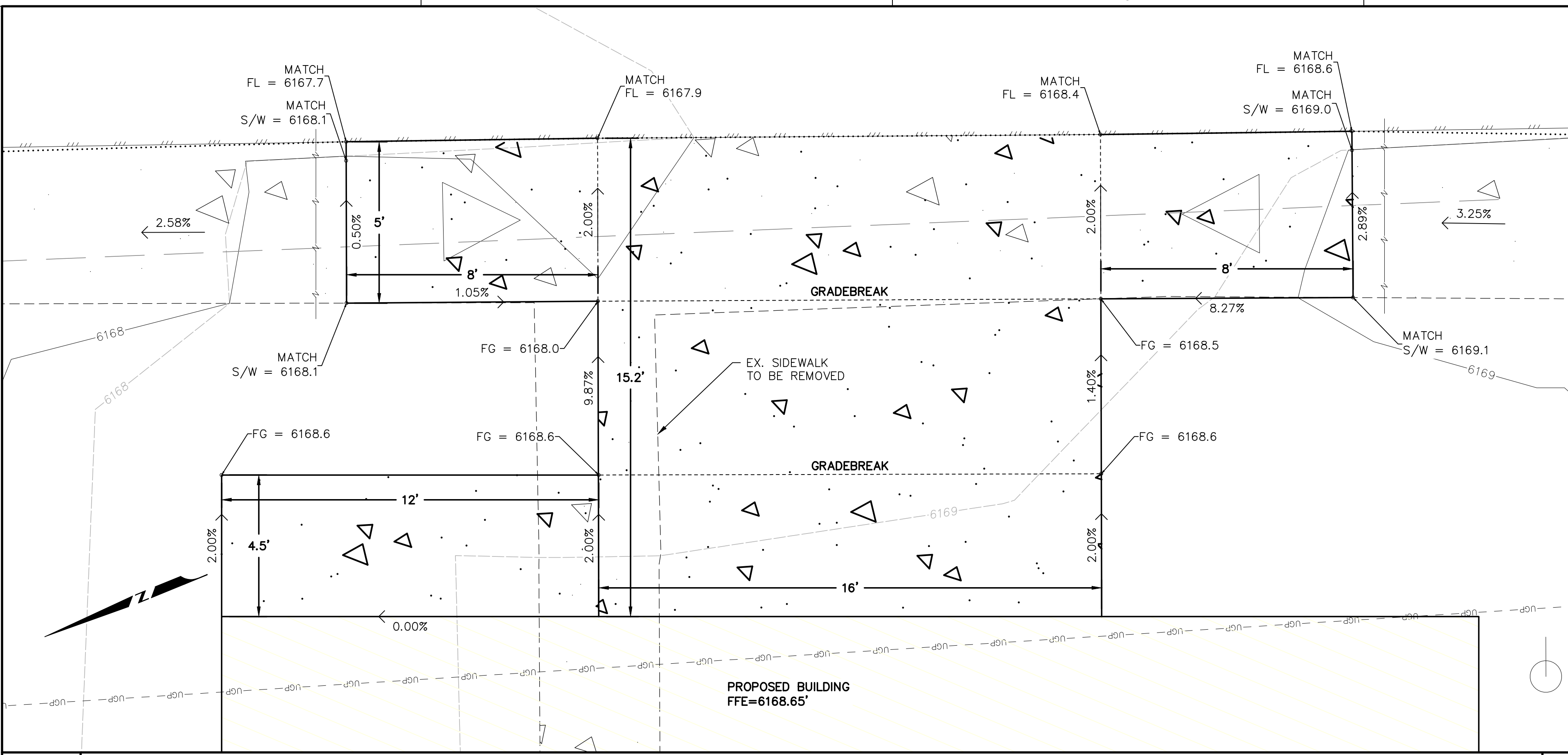
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DETAILS

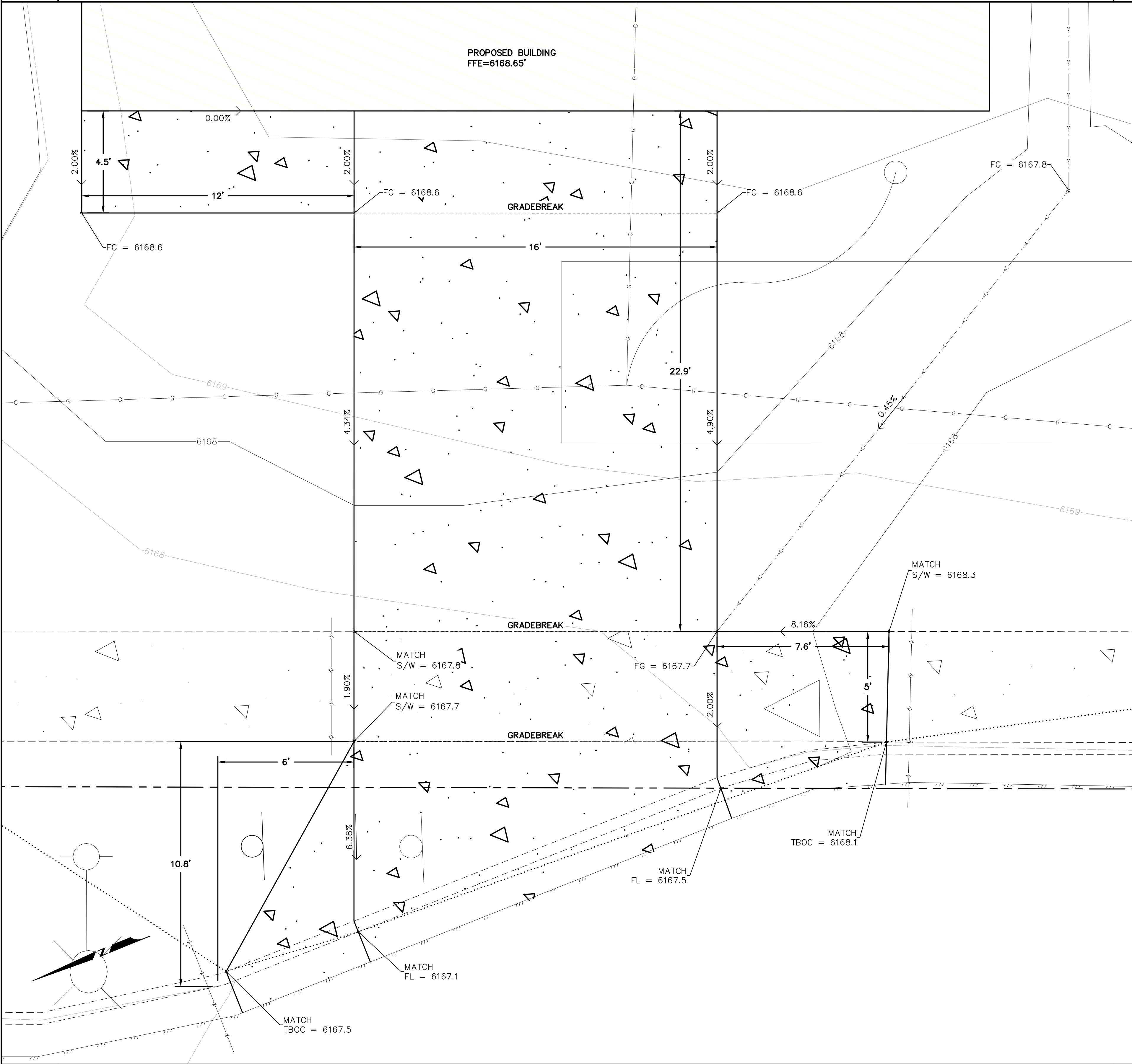
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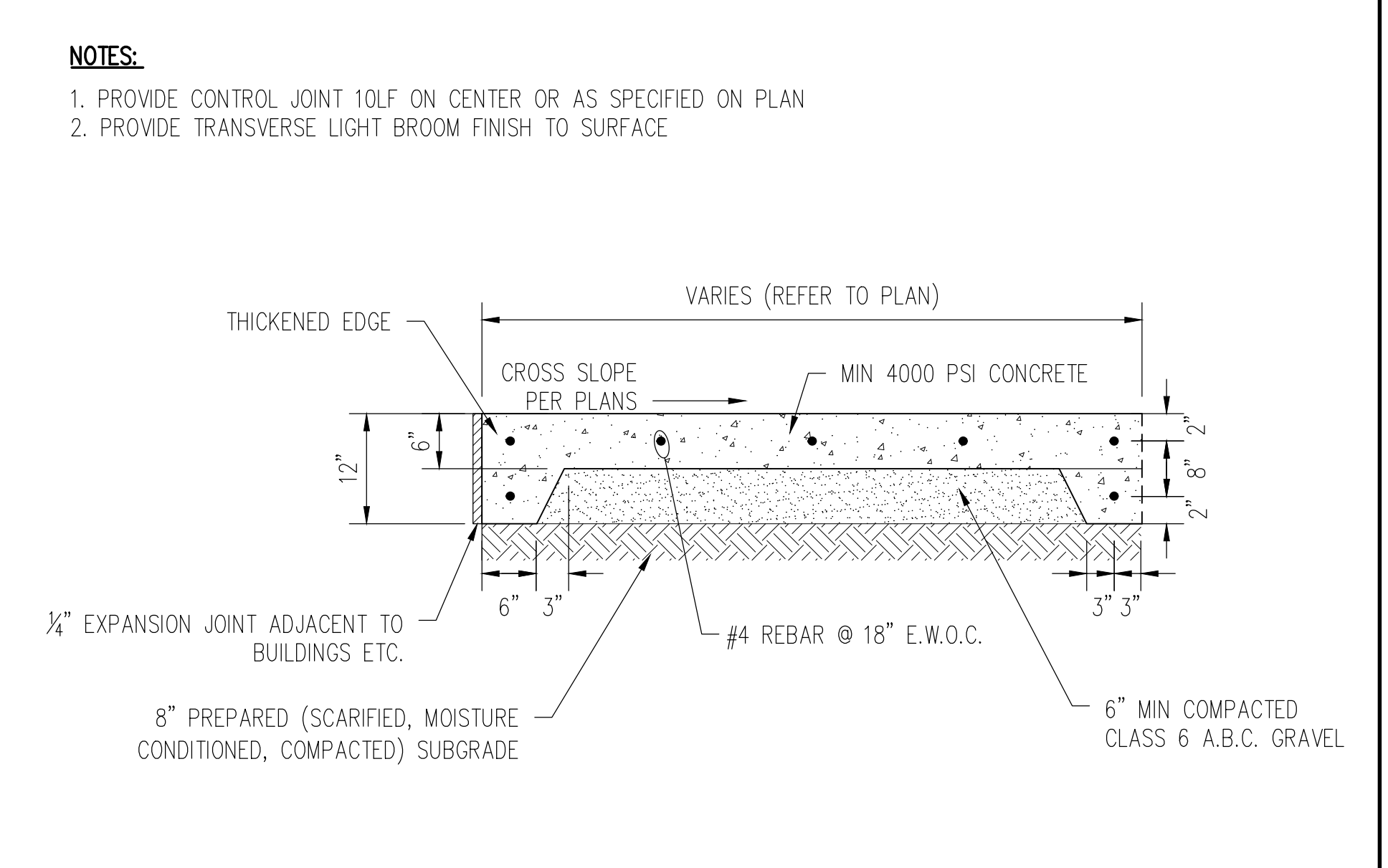
DPA Project: 22305.00.000



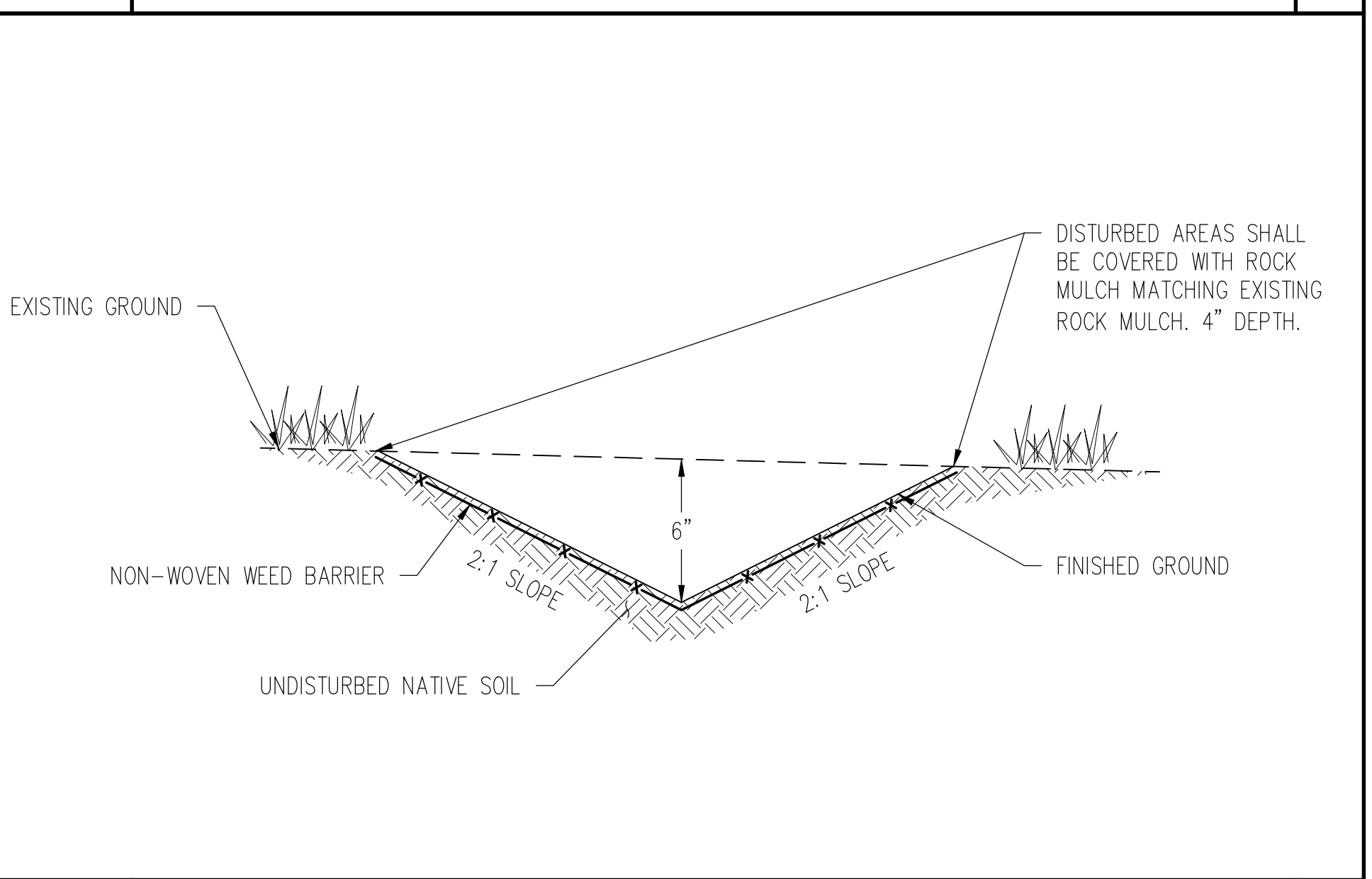
1"=2.5' DRIVWAY CURB CUT (EAST ENTRANCE) 1



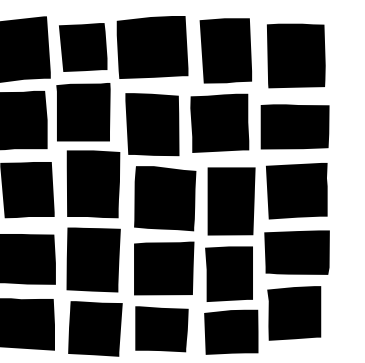
1"=2.5' DRIVWAY CURB CUT (WEST ENTRANCE) 2



N.T.S. REINFORCED CONCRETE SECTION 3



N.T.S. DRAINAGE SWALE 4



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CONSTRUCTION DOCUMENTS 6/16/2022

Revisions Date No.

Project Information

SHS - STORAGE BUILDING
1311 N. MILDRED ROAD
CORTEZ, CO 81321

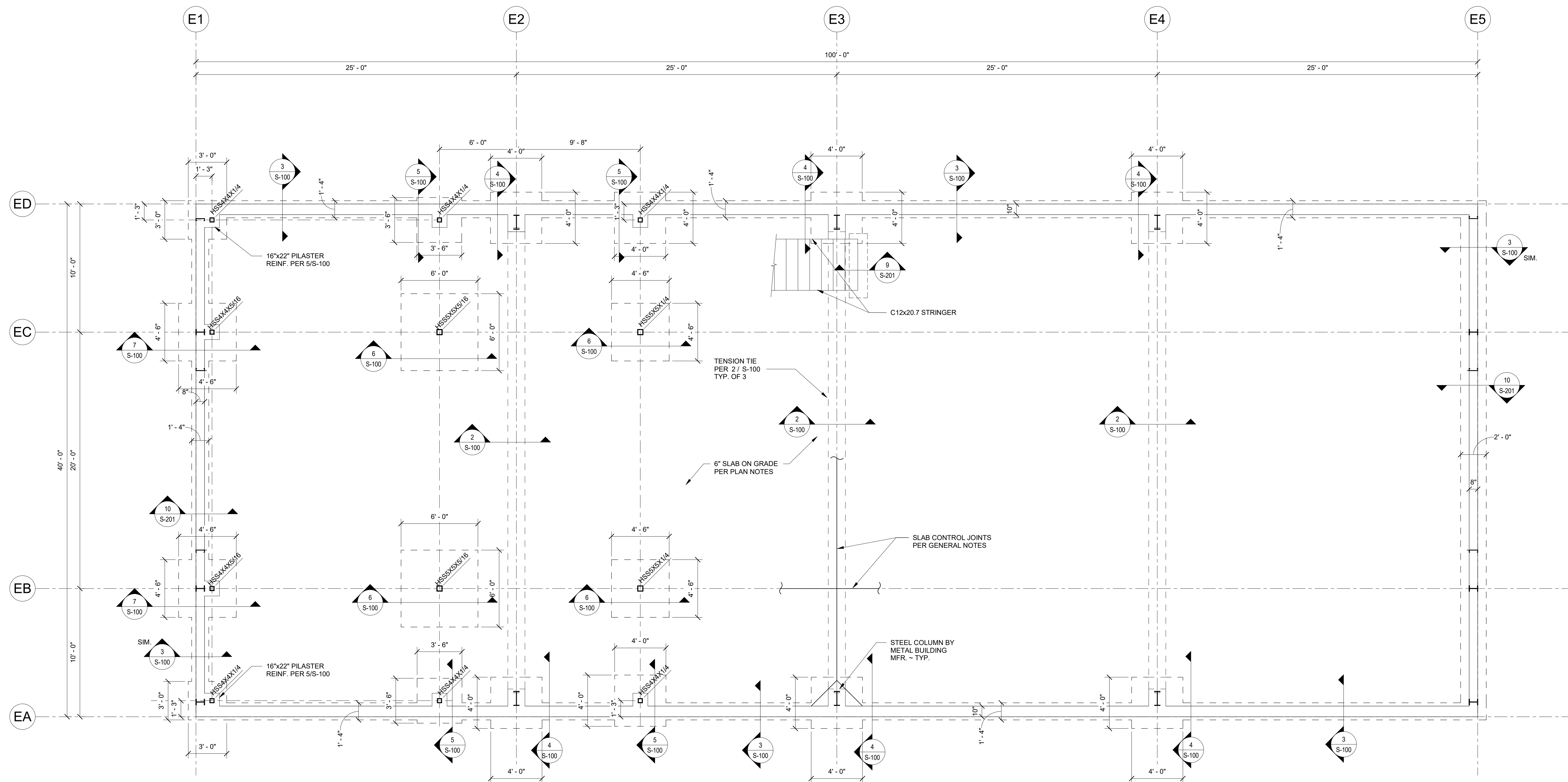
Sheet Information

Sheet Title:
FOUNDATION PLAN

Sheet Number:

S-101

DPA Project: 21014



FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

- NOTES:
1. TOP OF CONCRETE SLAB ELEVATION = 100'-0", UNLESS NOTED OTHERWISE ON PLAN.
 2. TYPICAL SLAB ON GRADE SHALL BE 6" THICK NORMAL WEIGHT CONCRETE. REINFORCE SLAB WITH #4 REBAR AT 12" O.C. EACH WAY PLACED AT MID DEPTH OF SLAB USING SLAB BOLSTERS AT 4" O.C. MAXIMUM.
 3. PROVIDE SAWCUT OR TOOLED SLAB CONTROL JOINTS 1/2" DEEP AT A MAXIMUM OF 18'-0" O.C. EXTENDING FROM COLUMN CENTERLINES AND AT ALL RE-ENTRANT WALL CORNERS.
 4. BOTTOM OF FOOTING AT PERIMETER WALL = 96'-0" UNLESS NOTED THUS: (XX-X) ON PLAN.
 5. BOTTOM OF FOOTING AT INTERIOR COLUMN = 97'-10" UNLESS NOTED THUS: (XX-X) ON PLAN.
 6. FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND FOUNDATION WALLS UNLESS DIMENSIONED OTHERWISE ON PLAN.
 7. STAIR TREADS SHALL BE 2" DEEP x 12" WIDE 13 GAUGE GALVANIZED TRACTION TREAD PLANK GRATING MANUFACTURED BY MCHOLS COMPANY OR APPROVED EQUAL. PLANK GRATING SHALL SUPPORT A MINIMUM UNIFORM LIVE LOAD OF 100 PSF AND CONCENTRATED LOAD OF 350 LBS.
 8. REFER TO STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL FOUNDATION INFORMATION.

A

D

E

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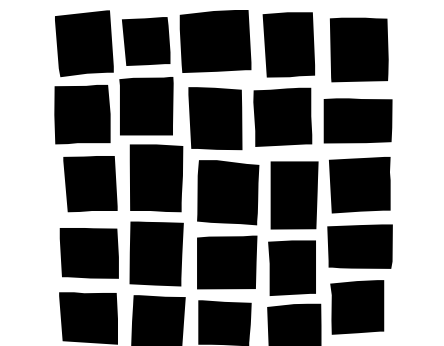
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Issuance Date

CONSTRUCTION DOCUMENTS 6/16/2022

Revisions Date No.

Project Information

SHS - STORAGE BUILDING
1311 N. MILDRED ROAD
CORTEZ, CO 81321

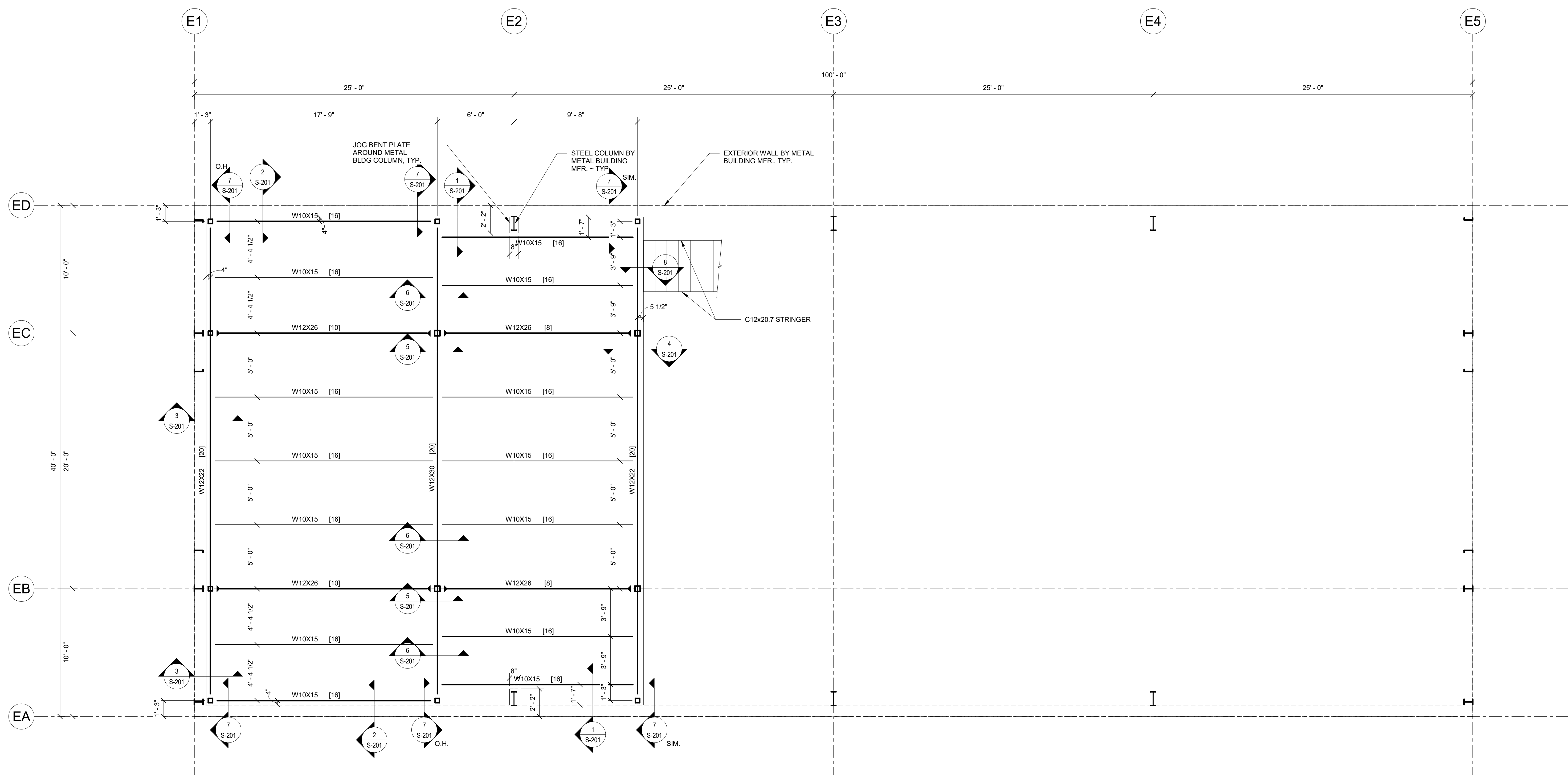
Sheet Information

Sheet Title:
**MEZZANINE
FRAMING PLAN**

Sheet Number:

S-102

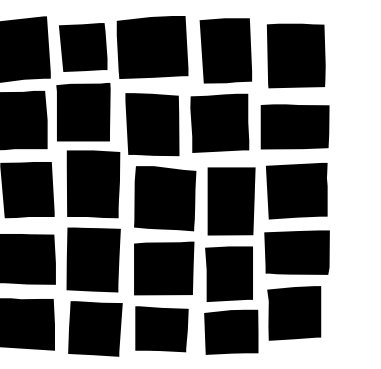
DPA Project: 21014



MEZZANINE FRAMING PLAN
SCALE: 1/4" = 1'-0"

- NOTES:
- TOP OF CONCRETE SLAB ELEVATION IS 11'-0" ABOVE FIRST FLOOR SLAB. (FIRST FLOOR ELEVATION = 100'-0).
 - SEE THE STRUCTURAL GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
 - FLOOR SLAB SHALL BE 2 1/2" NORMAL WEIGHT CONCRETE ON 1 1/2" DEEP, 20 GAGE GALVANIZED COMPOSITE STEEL FLOOR DECK (4" TOTAL). REINFORCE SLAB WITH 6x6W2.1xW2.1 WELDED WIRE FABRIC CHAIRED 3/4" ABOVE TOP OF DECK FLUTES.
 - ||| ON PLAN INDICATES THE NUMBER OF SHEAR STUDS TO BE WELDED TO THE STEEL BEAM TOP FLANGE. SHEAR STUDS SHALL BE 3/4" DIA.x3" (IN PLACE LENGTH) EQUALLY SPACED ALONG THE LENGTH OF THE BEAM.
 - ON PLAN INDICATES MOMENT CONNECTION PER S/S-201.
 - BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN GRIDS OR COLUMNS UNLESS DIMENSIONED OTHERWISE.
 - CONTRACTOR TO COORDINATE DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL DRAWINGS.

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Project Information

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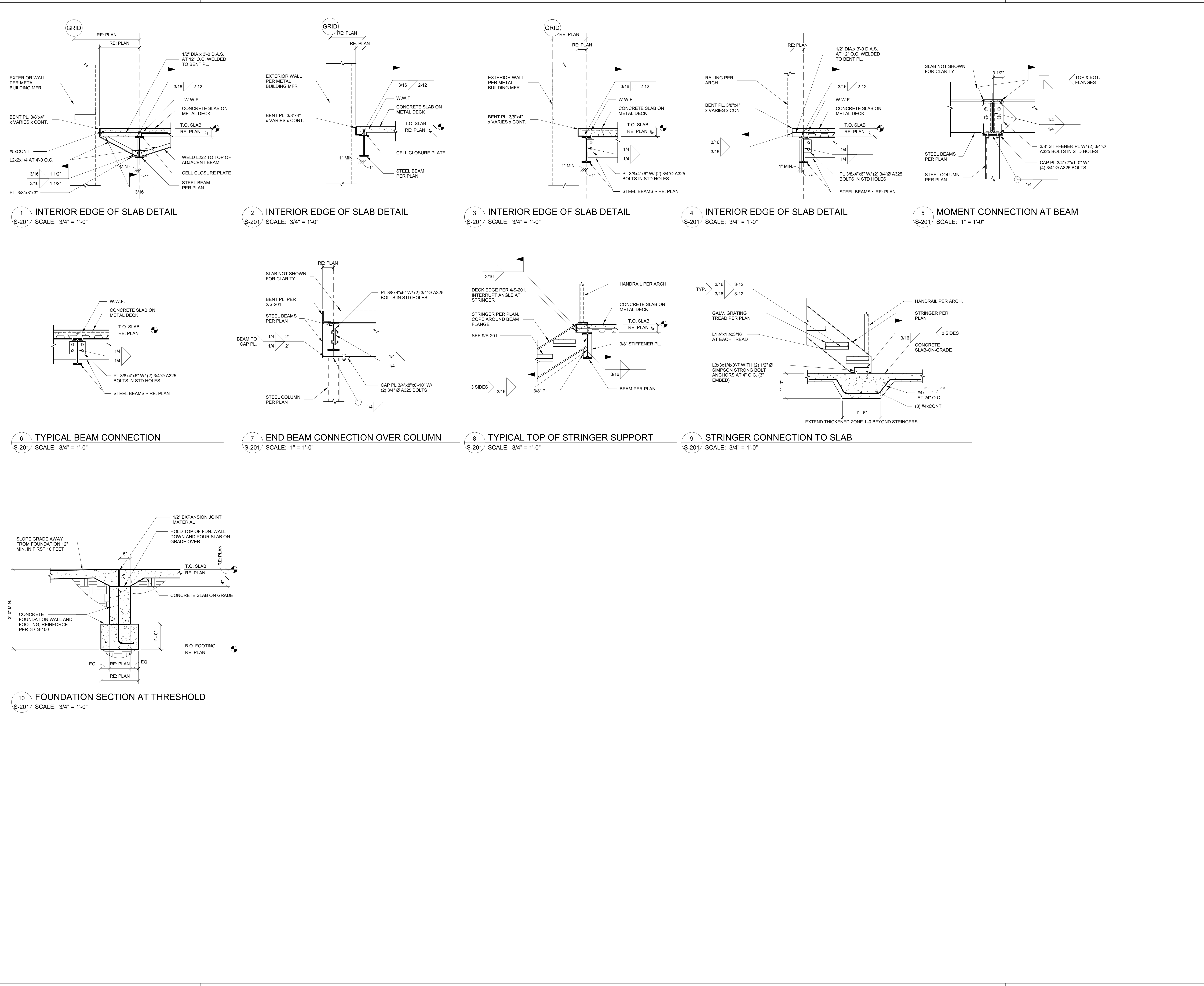
Sheet Information

Sheet Title:
DETAILS

Sheet Number:

S-201

DPA Project: 21014



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DOOR SCHEDULE																
DOOR #	TO: ROOM	FROM: ROOM	DOOR PANEL						DOOR FRAME		LIFE SAFETY			REMARKS	REV.	
			WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	GLAZING TYPE	TYPE	FINISH	FIRE RATING	CLEAR OPENING WIDTH			HARDWARE SET
LEVEL 1																
1A-101	STORAGE		14'-0"	8'-0"	1 3/4"	MRD1	MRD1	AL	PT	-	RDF1	RDF2	PT			SEE SPEC SECTION 08 3323 - OVERHEAD COILING DOORS
1B-101	STORAGE		14'-0"	12'-0"	1 3/4"				PT	-			PT			SEE SPEC SECTION 08 3323 - OVERHEAD COILING DOORS
1C-101	STORAGE		3'-0"	7'-0"	1 3/4"										33 1/8"	8" MANUFACTURER SUPPLIED
1D-101	STORAGE		3'-0"	7'-0"	1 3/4"										33 1/8"	8" MANUFACTURER SUPPLIED

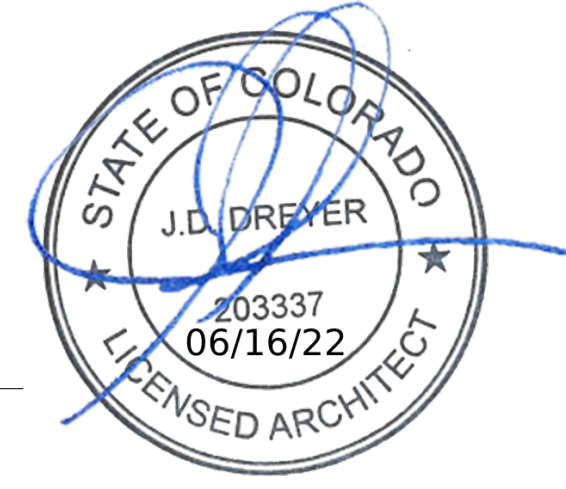
Plan General Notes

- DIMENSIONS ON ARCHITECTURAL DRAWINGS LOCATING STRUCTURAL ELEMENTS ARE TO CENTERLINE OF COLUMNS AND BEAMS, U.N.O.
- PAINT ALL EXPOSED STRUCTURAL STEEL, STAIRS AND RAILINGS. SEE SPECIFICATION SECTION 09 9123 - INTERIOR PAINTING FOR PRODUCT REQUIREMENTS.



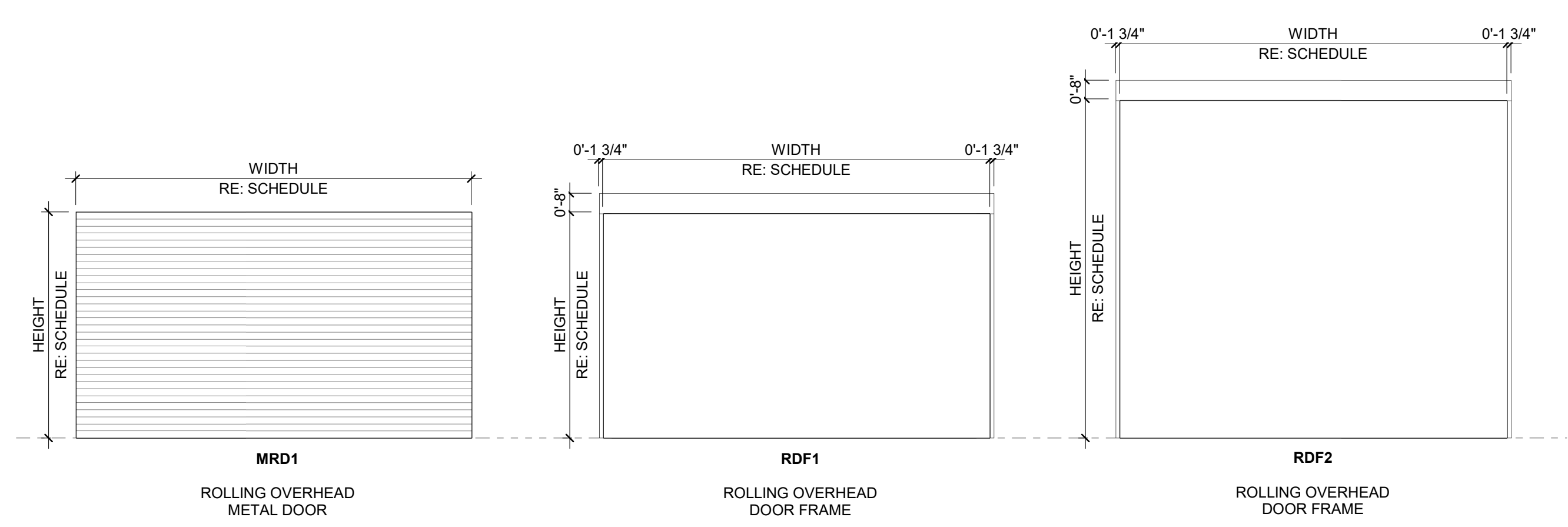
Consultant(s)

Stamp

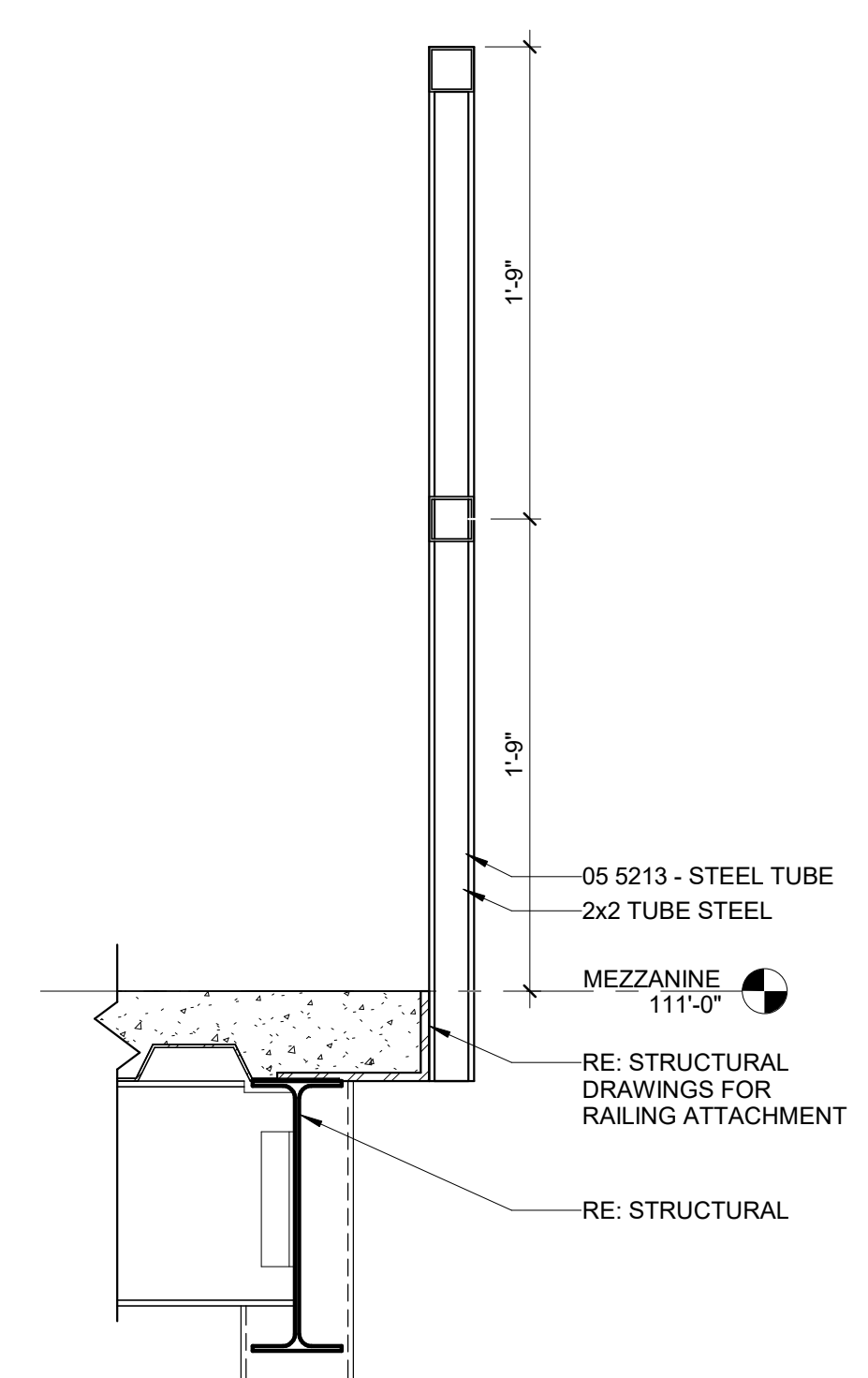


Issuance Date
CONSTRUCTION 06.16.2022
DOCUMENTS

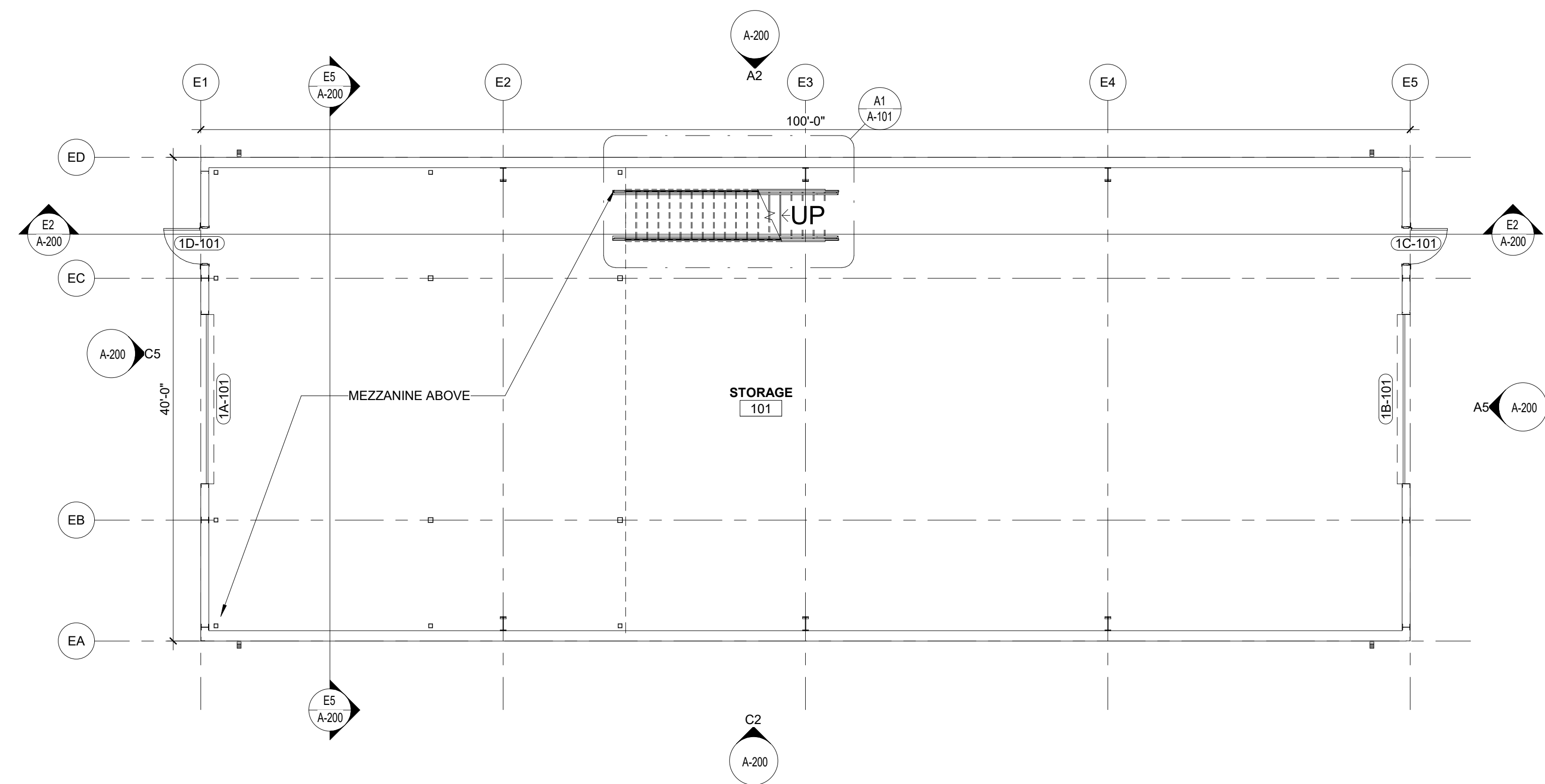
Revisions Date No.



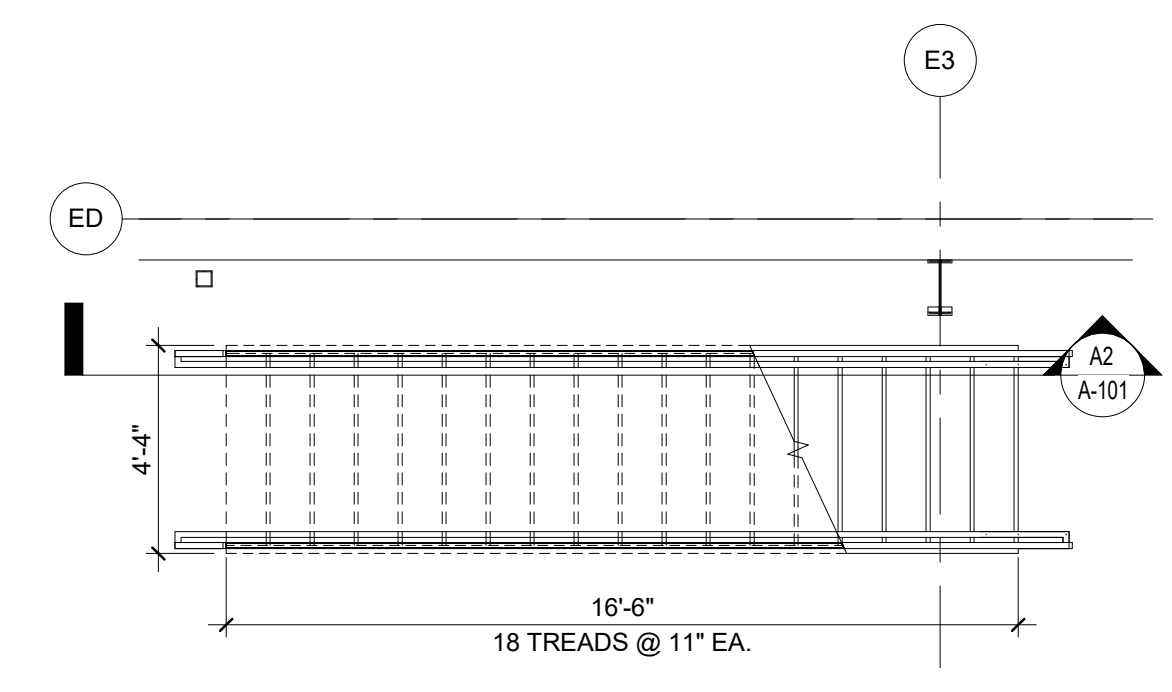
E3 DOOR TYPES AND FRAME TYPES
1/4" = 1'-0"



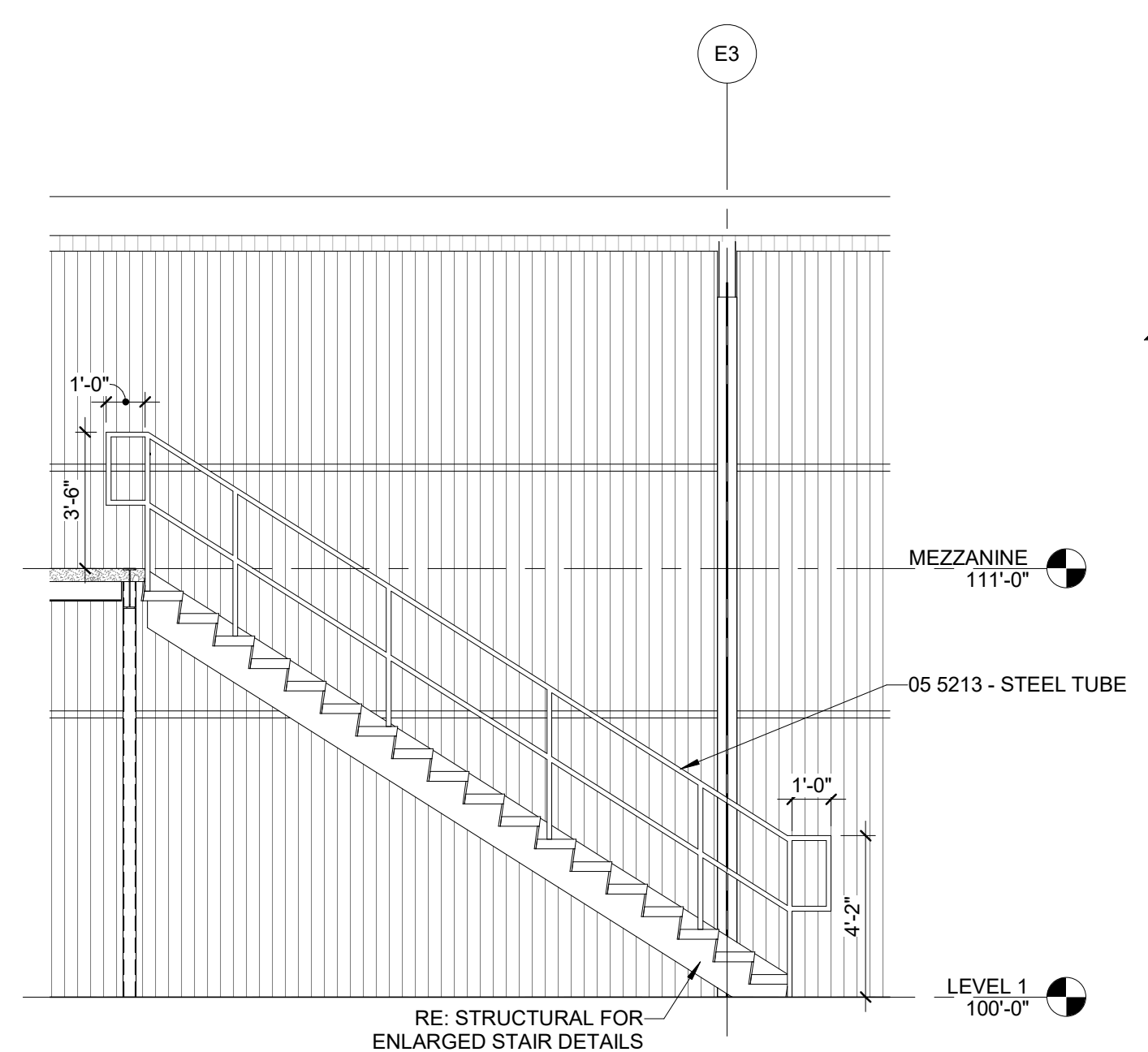
E2 ENLARGED RAILING DETAIL
1 1/2" = 1'-0"



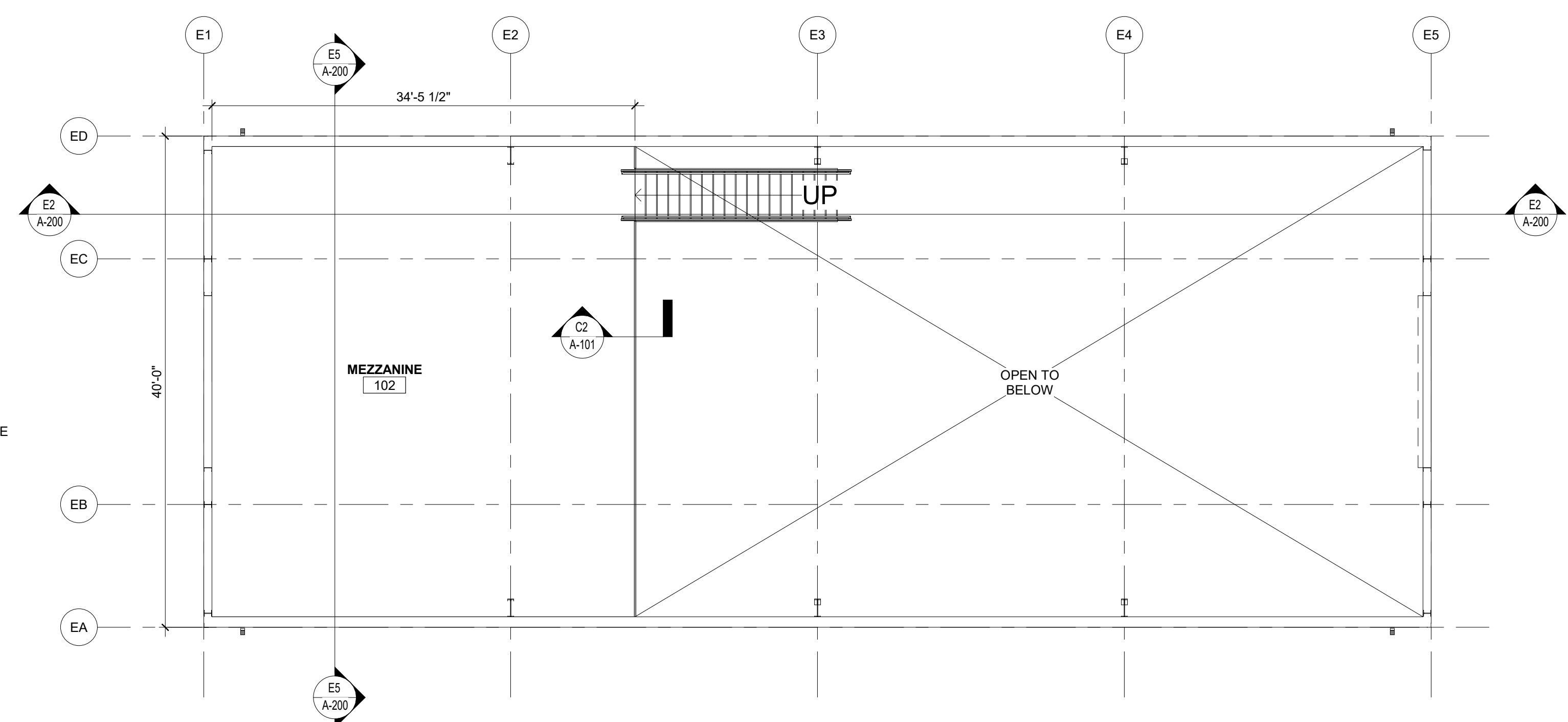
E3 LEVEL 1 - DIMENSION & ANNOTATION PLAN
1/8" = 1'-0"



A1 STAIRS ENLARGED PLAN
1/4" = 1'-0"



A2 STAIRS ENLARGED SECTION
1/4" = 1'-0"



A3 MEZZANINE - DIMENSION & ANNOTATION PLAN
1/8" = 1'-0"

Plan Legend

--- ABOVE FLOOR LINE

Plan Keynotes

KEYNOTE LEGEND (PER SHEET)

Project Information

SHS - STORAGE BUILDING
1311 N Mildred Rd,
Cortez, CO 81321


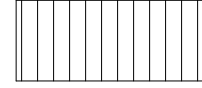
Sheet Information

Sheet Title:
OVERALL FLOOR PLANS

Sheet Number:

A-101

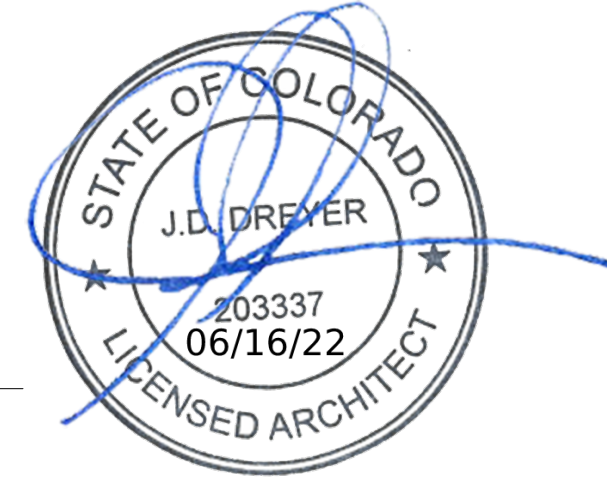
DPA Project: 22305.00.000

Materials Legend	
	METAL PANEL TRIM - "BURNISHED SLATE" TO MATCH COPING AND OTHER METAL TRIM AT EXISTING HOSPITAL
	METAL PANEL - "DESERT SAND" TO MATCH EXISTING HOSPITAL STUCCO COLOR



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Issuance Date
CONSTRUCTION 06.16.2022
DOCUMENTS

Revisions Date No.

Project Information

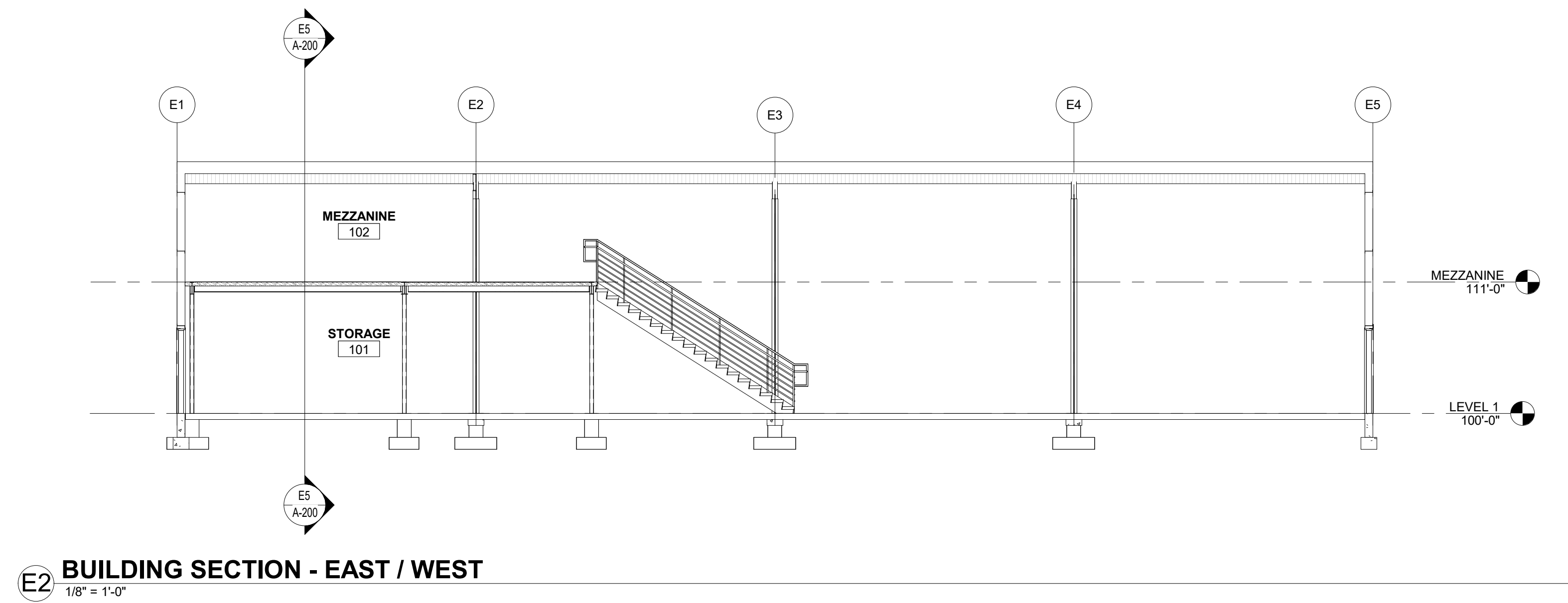
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Sheet Title:
EXTERIOR ELEVATIONS AND SECTIONS

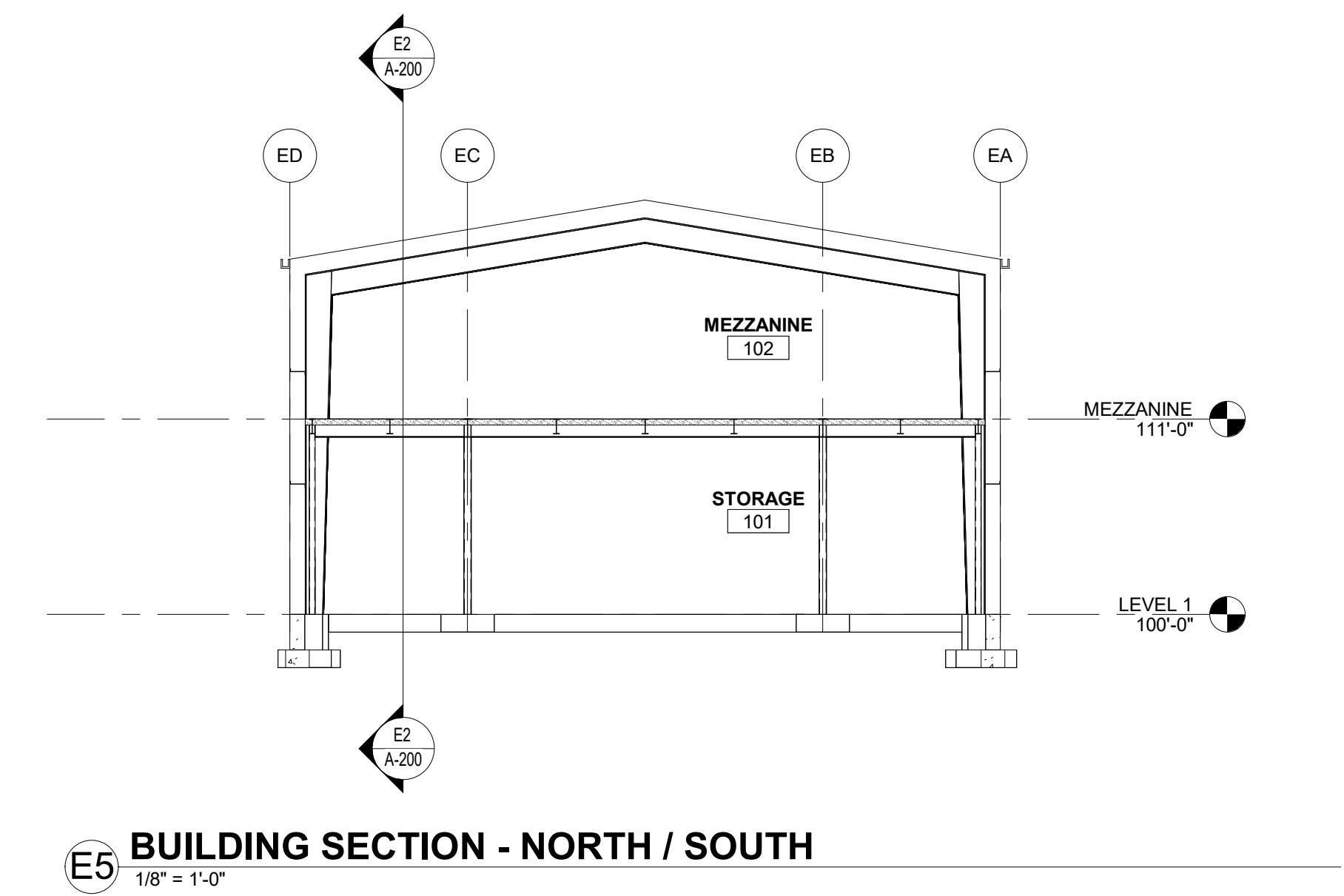
Sheet Number:

A-200

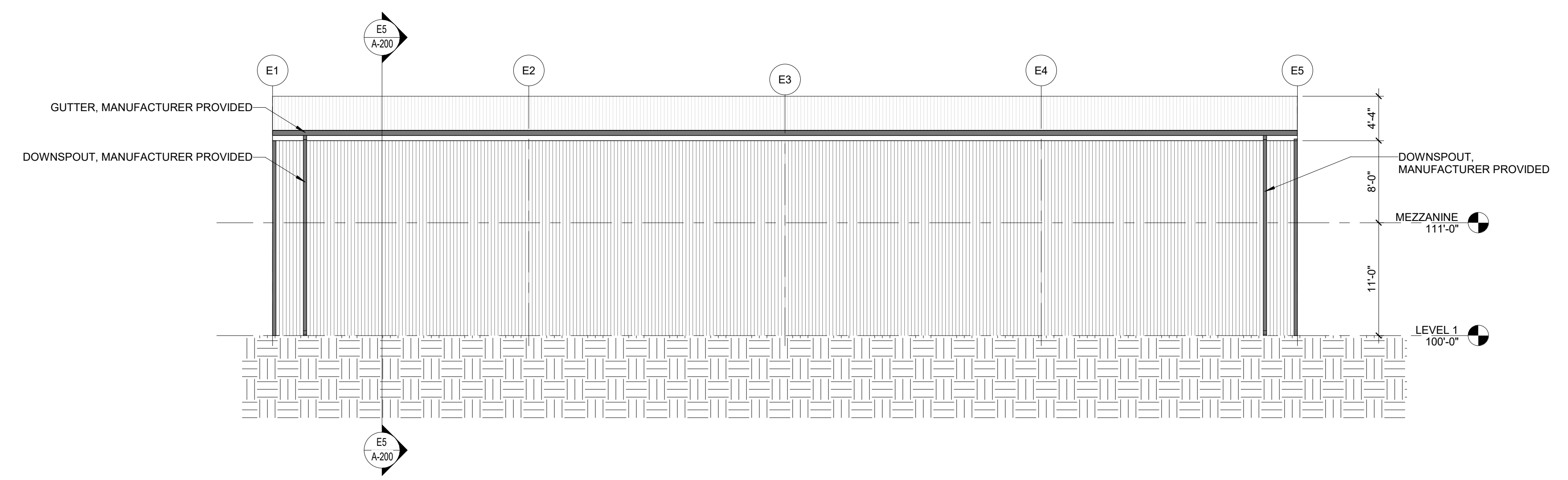
DPA Project: 22305.00.000



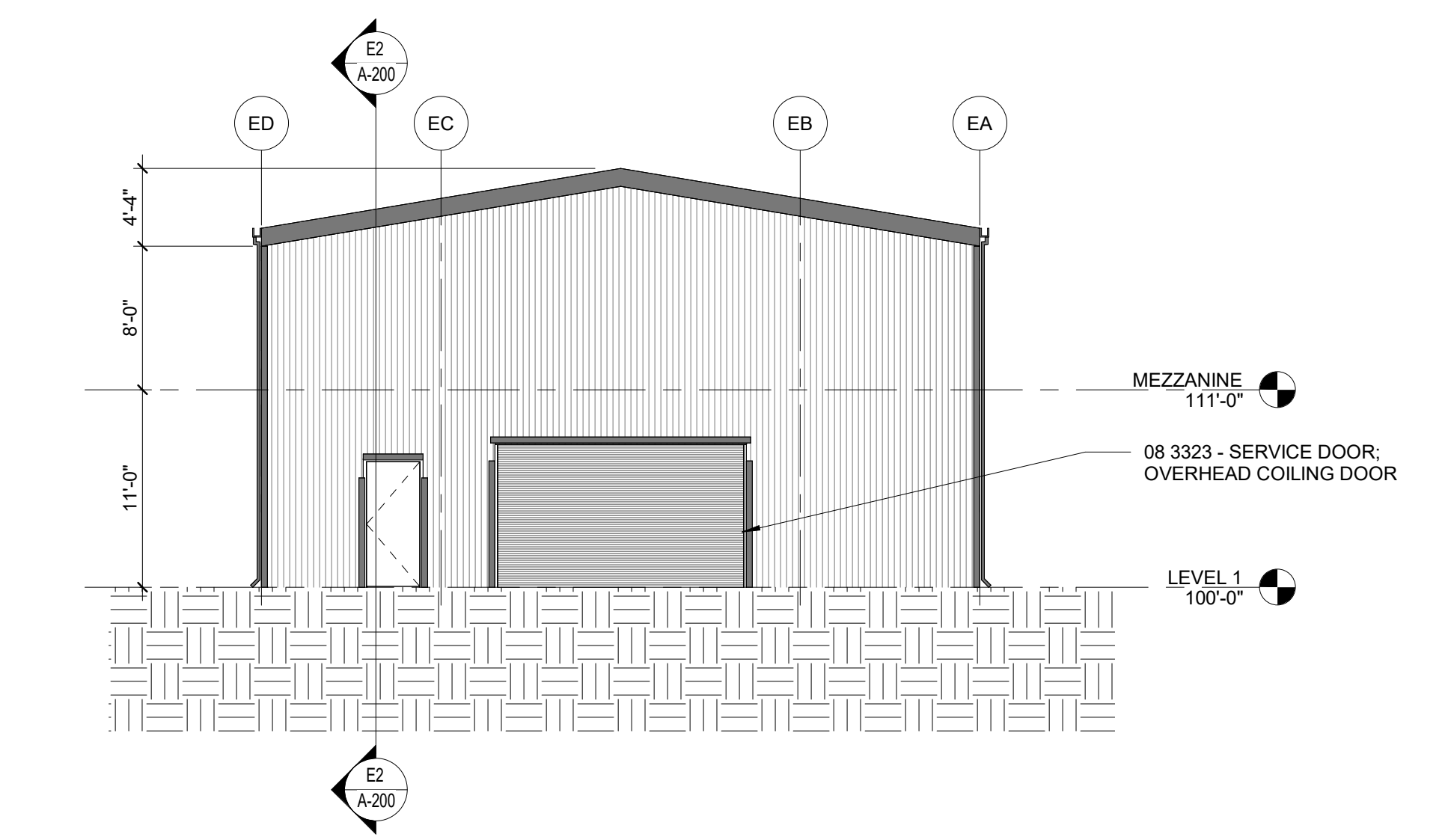
E2 BUILDING SECTION - EAST / WEST
1/8" = 1'-0"



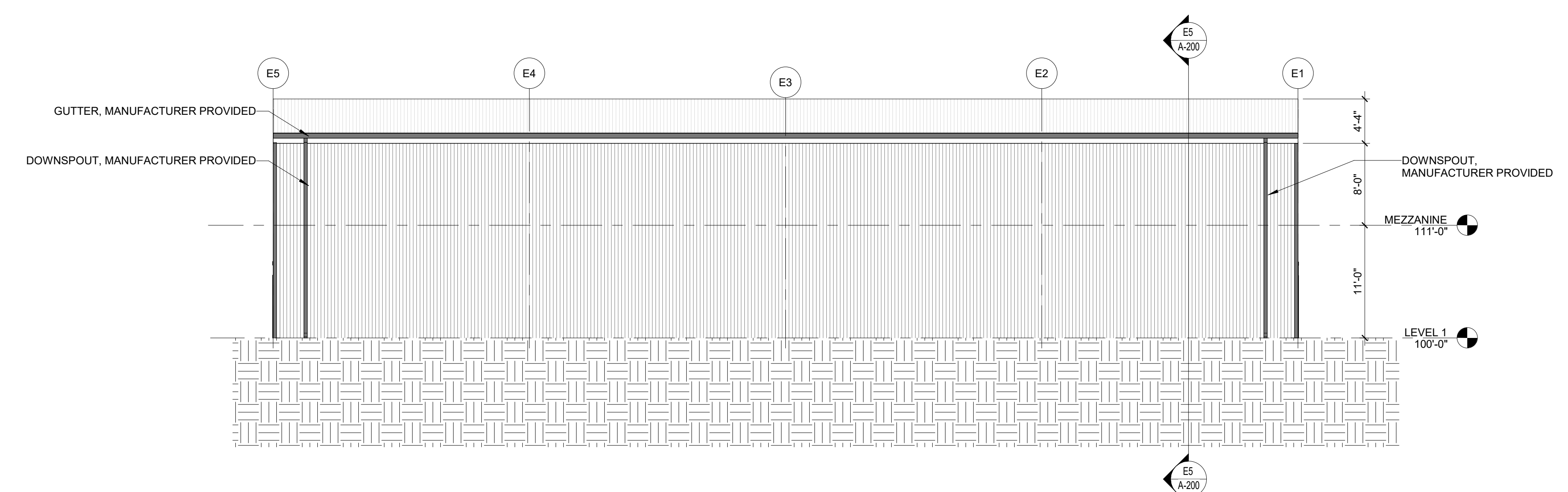
E5 BUILDING SECTION - NORTH / SOUTH
1/8" = 1'-0"



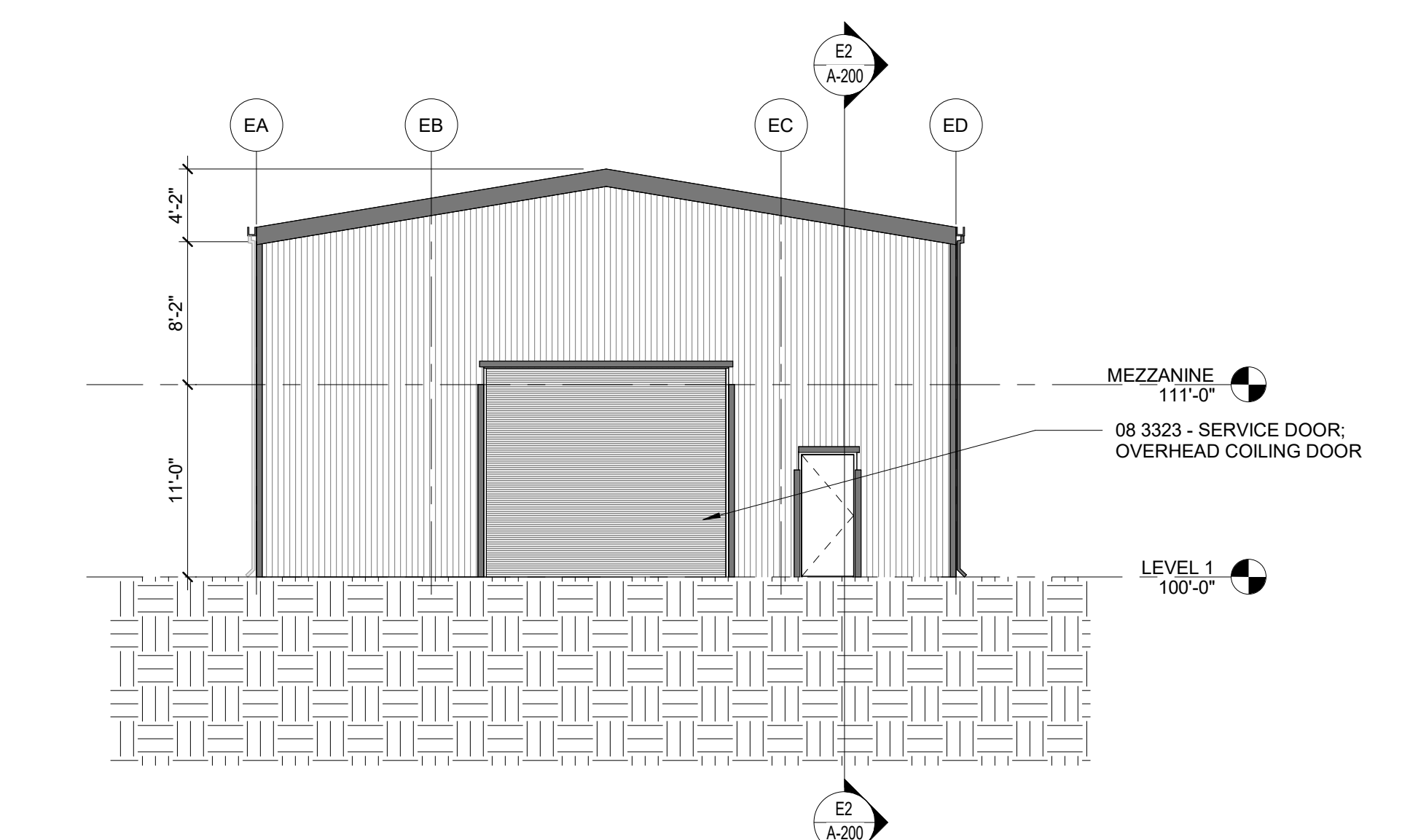
C2 ELEVATION_SOUTH
1/8" = 1'-0"



C5 ELEVATION_WEST
1/8" = 1'-0"



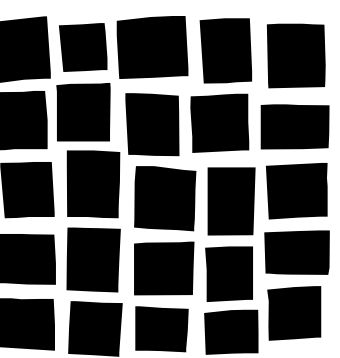
A2 ELEVATION_NORTH
1/8" = 1'-0"



A5 ELEVATION_EAST
1/8" = 1'-0"

SHS - STORAGE BUILDING
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Cortez, CO 81321

06/17/2022 8:50:10 AM



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Issuance Date

CONSTRUCTION DOCUMENTS 06/16/22

Revisions Date No.

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Project Information

SHS - STORAGE BUILDING
1311 N Mildred Rd,
Cortez, CO 81321

Sheet Information

Sheet Title:
MECHANICAL COVER SHEET

Sheet Number:

M001

DPA Project: #####

SYMBOL LEGEND

Table with 4 columns: Symbol, Description, Symbol, Description. Includes entries for Match Line, Equipment Tag, Point of Connection, Solenoid Valve, Radius Elbow, Duct Mounted Coil, Air Outlet/Inlet Device, Room Sensor, Humidity Sensor, Duct Smoke Detector, Pump, Globe Valve, Check Valve, Stop Check Valve, Calibrated Flow Balance Valve, Flow Limiting Valve, Hose End Ball Valve, Butterfly Valve, 2-Way Modulating Control Valve, 2-Way 2-Position Control Valve, 3-Way Modulating Control Valve, 3-Way 2-Position Control Valve, Relief Valve, Pressure Reducing Valve, Thermostatic Air Vent, Pressure Gauge, Vacuum Breaker, Flow Meter, Totalizing Flow Meter, BTU Meter, Pipe Slide, Concentric Reducer, Capped Pipe, Wye Type Strainer, Reduced Pressure Backflow Preventer, Sight Glass, High Pressure Steam Trap Assembly, Low Pressure Steam Trap Assembly, Blind Flange, Heating Water Supply, Heating Water Return, Chilled Water Supply, Chilled Water Return, Process Chilled Water Supply, Process Chilled Water Return, Condenser Water Supply, Condenser Water Return, Centrifugal Separator Supply, Centrifugal Separator Return, Low Pressure Steam, Low Pressure Condensate Return, High Pressure Steam, High Pressure Condensate Return, Boiler Blowdown, Boiler Feedwater, Condensate Drain, Natural Gas, Drain Line, 2-Way Modulating Control Valve, 2-Way 2-Position Control Valve, 3-Way Modulating Control Valve, 3-Way 2-Position Control Valve, 2-Way Modulating Characterized Port Ball Valve.

ABBREVIATIONS

Table with 4 columns: Abbreviation, Full Name, Abbreviation, Full Name. Includes entries for ABV (Above), ACU (Air Conditioning Unit), ACC (Air Cooled Chiller), AD (Access Door), AFF (Above Finished Floor), AFMS (Air Flow Measuring Station), AHU (Air Handling Unit), AL (Acoustical Lining), ALT (Altitude), ALD (Automatic Louver Damper), APPROX (Approximate), ARCH (Architectural), AS (Air Separator), AVG (Average), B (Boiler), BD (Blowdown), BDD (Back Draft Damper), BF (Below Floor), BFW (Boiler Feedwater), BG (Below Grade), BHP (Brake Horsepower), BO (Blank Off), BOD (Bottom of Duct), BOP (Bottom of Pipe), BOR (Bottom of Rack), BTU (British Thermal Unit), BTUH (BTU per Hour), C (Common), CA (Compressed Air), CAV (Constant Volume), CC (Cooling Coil), CD (Ceiling Diffuser), CE (Ceiling Exhaust), CFF (Cap for Future), CFH (Cubic Feet per Hour), CFM (Cubic Feet per Minute), CG (Ceiling Grille), CHS (Chilled Water Supply), CHR (Chilled Water Return), CL (Centerline), CMPR (Compressor), CO (Clean Out), COEFF (Coefficient), COND (Condensate), CONN (Connection), CONT (Continuation), COP (Coeff. of Performance), COTG (Clean Out to Grade), CP (Condensate Pump), CR (Ceiling Register), CV (Coeff. Valve Flow), CWS (Cond. Water Supply), CWR (Cond. Water Return), CT (Cooling Tower), D (Drop or Indirect Drain), DB (Dry Bulb), DDC (Direct Digital Control), DEG. F (Degrees Fahrenheit), DENS (Density), DIA (Diameter), DN (Down), DRN (Drain), DWG (Drawing), (E) (Existing), EA (Exhaust Air), EAD (Exhaust Air Duct or Damper), EAT (Entering Air Temp.), EDB (Entering Dry Bulb Temp.), EF (Exhaust Fan), EFF (Efficiency), ET (Expansion Tank), EWB (Entering Wet Bulb), EWT (Entering Water Temp.), EXH (Exhaust), EXP (Expansion), F (Filter), (F) (Future), FC (Flexible Connection), FCU (Fan Coil Unit), FD (Fire Damper or Floor Drain), FLA (Full Load Amps), FLR (Floor), FPI (Fins per Inch), FPM (Feet per Minute), FPS (Feet per Second), FS (Floor Sink), FT (Feet), FV (Face Velocity), GA (Gage or Gauge), GPM (Gallons per Minute), GPH (Gallons per Hour), GSM (Galvanized Sheet Metal), HC (Heating Coil), HD (Head), HGT (Height), HOA (Hand, Off, Auto), HP (Horse Power), HR (Hour(s)), HT (Humidity Transmitter), HTP (Heat Pump), HVAC (Heating, Ventilating and Air Conditioning), HWR (Heating Water Return), HWS (Heating Water Supply), HX (Heat Exchanger), IAC (Instrument Air Compressor), IAS (Instrument Air Supply), ID (Inside Dimension), IN (Inches), INV (Invert Elevation), KW (Kilowatt), KWH (Kilowatt Hour), LAT (Leaving Air Temp.), LBS (Pounds), LD (Linear Diffuser), LPR (Low Pressure Steam Return), LPS (Low Pressure Steam Supply), LVR (Louver), LWT (Leaving Water Temp.), M (Main Air), MA (Make Up Air), MAT (Mixed Air Temperature), MAX (Maximum), MB (Manual Balancing Damper), MBH (Thousand BTU per Hour), MCC (Motor Control Center), MFG (Manufacturer), MIN (Minimum), MMS (Manual Motor Start), (N) (New), NA (Not Applicable), NC (Normally Closed), NIC (Not in Contract), NK (Neck), NO (Normally Open or Number), NTS (Not to Scale), OA (Outside Air), OBD (Opposed Blade Damper), OD (Outside Dimension), ORD (Overflow Roof Drain), OP (Pressure Drop or Differential), P (Pump), PUMPED CONDENSATE, PG (Pipe Guide), PH (Phase (Electrical)), PHC (Preheat Coil), POC (Point of Connection), PRESS (Pressure), PSI (Pounds per Square Inch), PSIG (Pounds per Square Inch Gauge), R (Rise), RA (Return Air), RAD (Return Air Duct), RCVR (Receiver), RF (Return Fan), RH (Relative Humidity), RHC (Reheat Coil), RPM (Revolutions per Minute), SA (Supply Air), SADR (Supply Air Duct), SEC (Second), SF (Supply Fan), SP (Static Pressure), SPEC (Specification), SQ (Square), SS (Stainless Steel), STD (Standard), STM (Steam), SYM (Symbol), SYS (System), AT (Temperature Diff.), TEMP (Temperature), TOP (Top of Pipe), TOR (Top of Rack), TOT (Total), TT (Temp. Transmitter), TYP (Typical), U.C. (Undercut), UN (Unless Otherwise Noted), V (Volt), VA (Valve), VAV (Variable Air Volume), VERT (Vertical), VFD (Variable Freq. Drive), VOL (Volume), W (Watts), WB (Wet Bulb), W/O (Without), WT (Weight), WTR (Water), WSR (Wall Supply Register), WRR (Wall Return Register), HWR (Heating Water Return), HWS (Heating Water Supply), HX (Heat Exchanger), IAC (Instrument Air Compressor), IAS (Instrument Air Supply), ID (Inside Dimension).

GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2. IN THE EVENT OF A DISCREPANCY BETWEEN CONTRACT DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
- 3. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING STATE AND LOCAL FIRE AND BUILDING CODES, & NFPA CODE 101/99.
- 4. INSTALL ALL PIPING AND DUCTWORK TO AVOID ARCHITECTURAL FRAMING, STRUCTURAL MEMBERS, AND OTHER OBSTRUCTIONS. COORDINATE PIPING AND DUCTWORK LOCATION WITH ALL APPLICABLE CONTRACT DRAWINGS PRIOR TO PLACING SLEEVES IN FLOORS OR WALLS.
- 5. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE INSTALLATION WORK OF OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATIONS OF PIPING OR DUCTWORK.
- 6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT DIFFUSER LOCATIONS AND FINISHED CEILING.
- 7. COORDINATE DUCTWORK, PIPING WITH STRUCTURAL DRAWINGS, LIGHTING AND SPRINKLER SYSTEM. PROVIDE TRANSITIONS AS REQUIRED.
- 8. WHETHER OR NOT THEY ARE SHOWN ON DRAWINGS PROVIDE ALL CONCRETE PADS, SPECIAL SUPPORTS AND ANCHORING FOR ALL MECHANICAL EQUIPMENT REQUIRING SUCH. SEE ARCH OR STRUCTURAL DRAWINGS FOR ADDITIONAL INFO.
- 9. ALL DUCT DIMENSIONS ARE AIRSTREAM DIMENSIONS.
- 10. SEAL ALL FIRE RATED PENETRATIONS WITH FIRE RETARDANT MATERIAL AS SPECIFIED. REFER TO ARCHITECTURAL.
- 11. THERMOSTAT APPEARANCE AND LOCATION SHALL BE COORDINATED WITH ARCHITECT'S OWNER.
- 12. PROVIDE OPERATING HANDLES FOR ALL VALVE AND COCKS WITHOUT INTEGRAL OPERATORS.
- 13. IN MECHANICAL OR EQUIPMENT ROOMS, INSTALL ALL VALVES ACCESSIBLE FROM FLOOR LEVEL, WHERE POSSIBLE. PROVIDE GUIDED CHAIN OPERATIONS, UNLESS OTHERWISE NOTED, ON ALL VALVES IN MECHANICAL AND EQUIPMENT ROOMS INSTALLED OVER 7' ABOVE FLOOR.
- 14. PROVIDE VALVES AND OTHER PIPING SPECIALTIES SAME SIZE AS LINE SIZE SHOWN UNLESS OTHERWISE NOTED.
- 15. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL HOT WATER SUPPLY/RETURN TAKE-OFFS TO REHEAT COIL FOR AIR TERMINAL BOXES SHALL BE 3/4" DIAMETER.
- 16. PROVIDE UNIONS OR FLANGES ON EACH SIDE OF CONTROL VALVES AND PUMPS. EVERY PIPING ASSEMBLY SHALL BE MADE SO AS TO MAKE EVERY VALVE AND PIECE OF EQUIPMENT EASILY REMOVABLE, WELDED OR SOLDER-JOINT VALVES ARE EXCEPTED FROM THIS REQUIREMENT.
- 17. ALL DRAIN CONNECTIONS FROM MECHANICAL EQUIPMENT SHALL BE PIPED TO SPILL DIRECTLY INTO NEAREST FLOOR DRAIN.
- 18. PROVIDE 1" AIR GAP AT ALL DRAIN CONNECTIONS.
- 19. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, ETC. AT THE CONTRACTOR'S OPTION HE MAY BRACE UNBRACED DUCTS, PIPES, CONDUITS, ETC. IN A MANNER CONFORMING TO REQUIREMENTS ESTABLISHED BY THE MECHANICAL AND ELECTRICAL CONTRACT DOCUMENTS, OR THE CONTRACTOR MAY INSTALL TRAPEZE SUPPORTS TO RECEIVE THE CEILING HANGING AND BRACING WIRES. THE GENERAL CONTRACTOR SHALL COORDINATE THE WORK AND RESPONSIBILITY FOR ACCOMMODATING SUCH WORK.
- 20. DUCTS ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION. THIS SHALL INCLUDE DUCTWORK THAT IS PARTIALLY INSTALLED IF DUCTWORK IS TO REMAIN OPEN TO THE CONSTRUCTION ENVIRONMENT FOR MORE THAN A FEW HOURS. PROVIDE A TEMPORARY SEAL ON THE DUCT.
- 21. ALL PIPING AND DUCTWORK TO BE FLEXIBLE CONNECTED TO ROTATING EQUIPMENT, INCLUDING BUT NOT LIMITED TO FANS, AHUS, PUMPS AND AT ALL COILS, ETC.
- 22. SEE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR EQUIPMENT SUPPORTS AND ROOF OPENINGS.
- 23. ALL PIPING IN MECHANICAL ROOMS TO BE HUNG WITH SPRING ISOLATORS WITH 1/2" STATIC DEFLECTION AT SPECIFIED SPACING FOR HORIZONTAL PIPING, VERTICAL DROPS AND ALL ELBOWS.
- 24. PROVIDE ELBOW SUPPORTS AT ALL PIPE CONNECTIONS TO EQUIPMENT.
- 25. SEE ARCHITECTURAL DOCUMENTS FOR PAINTING OF ALL EXPOSED DUCTWORK, PIPING, AIR OUTLET AND FIXTURE TRIM. ALL DUCTWORK AND PIPING ON MECHANICAL EQUIPMENT LEVEL (ROOF) IS TO BE PAINTED IN COMPLIANCE WITH DIVISION 15 AND DIVISION 9.
- 26. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE.
- 27. UNLESS SPECIFICALLY SPECIFIED OR SHOWN OTHERWISE ALL CONSTRUCTION IS TO CONFORM TO SMACNA HVAC CONSTRUCTION STANDARDS AS A MINIMUM REQUIREMENT.
- 28. REFER TO ARCHITECTURAL SPECIFICATION FOR APPROVED FIRESTOPPING SYSTEM.
- 29. ALL PIPING NOTED TO BE CAPPED FOR FUTURE EXTENSION SHALL BE PROVIDED WITH VALVE NEAR CAP TO PERMIT FUTURE CONNECTION OF THE SYSTEM WITHOUT SHUTTING DOWN THE ACTIVE PORTION OF THE SYSTEM.
- 30. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE.
- 31. COORDINATE SYSTEM SHUTDOWN WITH OWNER'S REPRESENTATIVE. PROVIDE A MINIMUM OF 72 HOUR NOTICE.

GENERAL CONDITIONS

- 1. ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING LOCAL FIRE CODES AND BUILDING CODES.
- 2. SCHEDULE ALL WORK ACCESS AND STORAGE WITH THE FACILITY ADMINISTRATOR.
- 3. CONTRACTOR SHALL PROVIDE DUST COVERS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA AND KEEP DIRT AND DUST TO A MINIMUM.
- 4. ALL REMOVED ITEMS DEEMED TO HAVE VALUE BY THE OWNER SHALL BE DELIVERED TO A PLACE OF STORAGE AT THE SITE AS DIRECTED. ALL OTHER ITEMS MUST BE DISPOSED OF OFF SITE IN A LEGAL MANNER.
- 5. WHERE EXISTING CONSTRUCTION IS CUT, DAMAGED, OR REMODELED, PATCH WITH MATERIALS TO MATCH IN KIND, QUALITY AND PERFORMANCE.
- 6. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- 7. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
- 8. WHEN INSTALLING DRILLED-IN ANCHORS AND/OR POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED REINFORCED CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE INCH BETWEEN THE REINFORCEMENT AND THE DRILLED-IN ANCHOR AND/OR PIN.

MECHANICAL DRAWING INDEX

Table with 2 columns: Drawing Number, Description. Includes entries for M001 (Mechanical Cover Sheet), M002 (Mechanical Sheet Spec), M020 (Mechanical Plans).

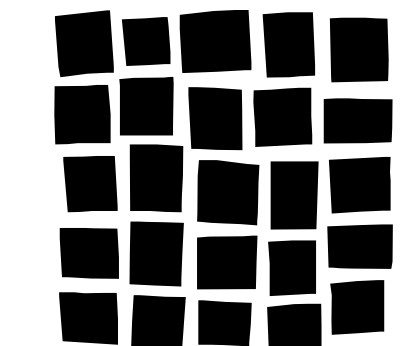
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5/11/17 PM

1 2 3 4 5 6

GENERAL REQUIREMENTS - DIVISION 23

- A. Design Intent: Drawings are in part diagrammatic, intended to convey the scope of work and indicate general arrangement of equipment, ducts, piping and approximate sizes and locations of equipment connections. The intended result of the Contract Documents, which include drawings, specifications, and related documents, is to provide a complete working installation of all systems and equipment, in proper operating condition, finished, tested, and ready for its intended use (the "Design Intent"). Provide all items not specifically shown on the drawings or called for in the specifications or related Contract Documents but required to conform to the Design Intent. The scope of work includes all labor, material, and equipment to achieve the Design Intent and all necessary and required temporary and incidental equipment, connections, services, supports, workmanship, and highest quality product installation, taking into account the sequence of the work, delivery, storage, and hoisting requirements, requirements for access, testing, temporary services, and all other site limitations and project complexities. Report to the Architect/Engineer any conditions which might prevent installation of materials and/or equipment in the manner intended by the Contract Documents or contrary to applicable codes, standards, or regulations.
- B. Permits, Insurance, Bond: Obtain all permits required for the installation of the work and pay all fees in connection therewith. Provide insurance and bonding as required by the building owner.
- C. Examine the Drawings, Specifications, and other Contract Documents relating to the Work and the work of all trades and become fully informed as to the extent and character of work required. Coordinate all work with that of other trades to ensure proper and complete installation of all materials, equipment, and supports.
- D. The drawings, specifications, and related Contract Documents are complementary and interrelated, what is required by one is as if required by another. Information and requirements may be included in one and not another. Before proceeding with any work, conduct a full and thorough review of all Contract Documents, including but not limited to all drawings and specifications, to ascertain requirements of the Work. Where there is a conflict in or between the drawings, specifications, or other related Contract Documents as to performance, the more stringent requirement shall apply, or as to quality, the highest quality provision shall apply and be included, each without cost or schedule impact.
- E. Before submitting a bid and prior to the start of work, examine all conditions relating to the Work, including that associated with the work of other trades upon which this work may rely or otherwise depend, to achieve the Design Intent, in accordance with the best trade practices, workmanship, and highest quality product installation, taking into account the sequence of the work, delivery, storage, and hoisting requirements, requirements for access, testing, temporary services, and all other site limitations and project complexities. Report to the Architect/Engineer any conditions which might prevent installation of materials and/or equipment in the manner intended by the Contract Documents or contrary to applicable codes, standards, or regulations.
- F. Notify the Architect/Engineer before submitting a proposal of any aspect of the Contract Documents which may be incomplete, incorrect, or indefinite, or which appears to conflict with existing conditions or the Design Intent. No consideration or allowance will be granted for any misunderstanding of materials, equipment, components to be furnished, or work to be done to accomplish the Design Intent.
- G. As-Built Drawings: Maintain a set of contract documents on-site at all times for marking as-built conditions. Mark all deviations from the design drawings on this set. Note the location and elevation of both new and existing ducts, piping, and equipment. At conclusion of the project, transfer sketches and notes to a clean set of drawings, accurately indicating as-built conditions. Use color markings to distinguish from the original. Prior to submitting final pay request, submit full-color scan, minimum 400 dpi, in pdf format, to engineer for approval.
- H. Tender of a proposal is an explicit agreement to the terms and conditions of the Contract Documents.
- I. Definitions: Terms used on the drawings or in the specifications have the following meanings:
1. Furnish: Supply and deliver, ready for installation, assembly or intended use, all materials, labor, equipment, tests, testing apparatus, controls, accessories, and all other items required for the proper and complete application.
 2. Install: Includes unloading, uncrating, assembling, hoisting, erecting, installation, applying, finishing, protecting, cleaning, and similar operations at the project site as necessary to complete all items of work as required for the intended use/operation including all testing, certification, commissioning, and other requirements for final turnover to the Owner.
 3. Provide: "Furnish" and "Install."
 4. Finished Spaces: Spaces other than mechanical or electrical equipment rooms, furred spaces, pipe and duct shafts, unheated spaces immediately below roof, spaces above ceilings, unexcavated spaces, crawlspaces, and tunnels.
 5. Exposed, Exterior Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions. Examples include rooftop, yard, or building exterior locations.
 6. Wiring: All wires, raceways, fittings, conductors, connectors, tape, junction and outlet boxes, connectors, splices, and all other items necessary and/or required in connection with such work.
 7. Raceway: All raceways, conduit, fittings, hangers, supports, sleeves, etc.
 8. Piping: Pipe, tube, fittings, valves, hangers, and other accessories which comprise a system.
- J. Codes and Standards:
1. Comply with the requirements of all codes and standards adopted by authorities having jurisdiction.
 2. The codes and standards referred to are minimum standards. Where the requirements of Contract Documents exceed those of the codes and standards, comply with the Contract Documents.
- K. Dimensions:
1. Except where dimensions are shown, the drawings are diagrammatic and shall not be scaled. Exact location of fixtures, apparatus, duct work and piping shall be determined by dimensions on the site and from architectural drawings.
 2. The Architect/Engineer specifically reserves the right, up to the time of ringing-in, to exactly define the position of the installation and connected arrangement of the equipment to be installed and connected to these connections.
 3. The drawings indicate the general locations of apparatus, fixtures, and piping. Where job conditions require reasonable changes to indicated locations and arrangement, make such changes where approved by the Engineer and without additional cost to the owner.
- L. Clearance and Access:
1. Equipment requiring operation, service or maintenance during the life of the system shall be made easily accessible. Comply with manufacturer's published service access requirements.
 2. Ductwork or piping shall not be run within 42" of electrical switchboards, panel boards, motor control centers, or the electrical panels integral to equipment.
 3. Provide access panels in ceilings and walls for required service access to life safety dampers, actuators, equipment, balancing devices, shutoff valves, and other items that require service and/or inspection. Location and type of access panels must be coordinated with and approved by the Architect.
- M. Action Submittals:
1. Submit all required documents in Portable Document Format (pdf). Include cover sheet with project name, date, name of submitting contractor, specific product being submitted, specification reference and identification tag used on the plans, where applicable. Clearly state that the product complies with the contract documents and note any deviations from the contract documents.
 2. Where product sheets with multiple options are submitted, clearly indicate the specific item being submitted.
 3. Product Data: For each type of product indicated, include rated capacities, operating characteristics, and furnished specialties and accessories. Include factory selections.
 4. Closeout Submittals:
 - a. As-built drawings: Maintain accurate records on a set of contract drawings of all deviations made during the progress of the work. The completed set of drawings, with the nature and extent of all deviations clearly shown, shall be submitted to the engineer upon completion and acceptance of the work. As-built drawings shall be forwarded to the engineer for approval in pdf format.
 - b. Operation and Maintenance Data: For all equipment, to include in emergency, operation, and maintenance manuals.
 - c. Operating instructions: Conduct formal instruction sessions for the owner's operating personnel to cover the following. Submit written statement from the owner's representative acknowledging satisfactory completion of instruction:
- 1) General familiarization and operating procedures for the entire mechanical installation.
 - 2) Routine maintenance procedures for all mechanical equipment.
- N. Cleaning:
1. Remove all stickers, rust, stains, temporary labels, and temporary covers.
 2. Foreign matter shall be blown, vacuumed or flushed out of piping, pumps, fans, motors, devices, switches, panels, duct work and equipment.
 3. Identification plates on equipment shall be clean, undamaged, and easily readable.
- O. Guarantees:
1. The entire installation shall be guaranteed free from defects in material and workmanship for a period of one year from date of final acceptance. The contractor shall provide all labor and material to repair defects that appear.
- P. Identification:
1. Piping System:
 - a. All piping systems shall be identified by the name of contents and the direction of flow in accordance with ANSI A13.1. Identify all new piping systems.
 - b. Name of contents and directional arrows near each valve, on both sides of pipes passing through walls, at least once within each space and at 30 foot intervals.
 2. Equipment:
 - a. Install or permanently fasten labels on each major item of mechanical equipment and each item scheduled on the Drawings.
 - b. Labels indicate drawing designation, unique equipment number assigned by the owner, and year of installation.
 3. Controls:
 - a. Install engraved plastic or two-color vinyl label printer labels on every control sensor, transmitter, actuator, controller, or other device, with designation used on control shop drawings.
- Q. Electrical:
1. Power Wiring:
 - a. For the purpose of this specification, power wiring shall be defined as:
- 1) All wiring from the power source panelboards (or switchboard) to the disconnect switch, starter, and/or variable frequency drive, including wiring from these switches to the equipment, and final connection to the equipment.
 - 2) All line voltage wiring to control panels.
 - 3) Any power wiring indicated on the Drawings.
- b. All power wiring from the power source to the above noted switches, and wiring from these switches to the equipment, including final connection to same, shall be provided under the electrical division.
 - c. Provide power wiring to all control panels and control devices requiring line voltage power, whether or not indicated on electrical drawings.
2. Control Wiring:
 - a. All other wiring required, whether line voltage or low voltage, internal or external, to provide for the operation of the equipment shall be considered as control wiring.
 - b. Install all control wiring per NFPA 70, National Electrical Code and in accordance with Division 26 drawings and specifications. Install wiring within conduit where subject to physical damage and where exposed, up to 10 feet above roof.
 3. Provide all power and control wiring to all electrically operated equipment furnished by Division 23. Provide interlocks between controllers and mechanical equipment.
- R. Motors and Motor Controllers:
1. Provide all required components necessary for the complete installation and satisfactory operation of the mechanical systems, of the proper voltage and current rating for the motor it serves.
 2. All starters and variable frequency drives shall be enclosed. Use NEMA type 1 for general purpose enclosures, NEMA type 4 for watertight enclosures, and NEMA type 12 for dust-tight enclosures. Location of motor determines type of enclosure, unless controller location is otherwise indicated.
 3. Manual motor starters for single phase motors comprise a snap switch and a manual-reset thermal overload device.
 4. Magnetic controllers are full-voltage, across-the-line, electrically held power contacts with 24VAC control circuit, electronic overload with manual reset, and hand-off-auto switch.
 5. Polyphase motors: NEMA MG 1, Design B, premium efficient, 1.5 service factor, Class F temperature rise, Class H insulation. Regressible bearings suitable for radial and thrust loads, with shaft grounding ring. Cast iron enclosure frames sizes 204T and larger; rolled steel for smaller.
 6. ECM motors: Where specified, provide electronically commutated motors with variable speed control.
- S. Support for Piping and Equipment:
1. General:
 - a. Provide a system of supporting devices and hangers for support and bracing of piping, conduit, and equipment as required by code and as required to install a complete, operating system.
 - b. Anchor floor-mounted equipment.
 - c. Do not support ductwork, piping, conduits, conductors, or equipment from other piping, conduits, ceiling grids, equipment, ductwork, or ceiling supports. In all cases, provide independent supports for such components and equipment.
 2. Metal Supports and Anchorages: Refer to local codes, practices and standards for installation and material requirements and limitations relating to the use of metal supports and anchorages, including applicable seismic requirements. Use structural steel shapes, metal framing systems, and pipe and equipment support systems. Field Welding: Comply with AWS D1.1.
 3. Grouting: Mix and place grout for equipment base bearing surfaces, pump and other equipment base plates, and anchors. Comply with grout manufacturer's recommendations for mixing, placement, and curing.
 4. Suspension Support for Ducts, Pipes, Equipment:
 - a. Connect suspension supports directly to building steel. Do not support from other pipes, ducts, or equipment. Where hangers are required between building steel points, add supplementary steel members as required to adequately support the load.
 - b. Furnish and install all necessary hangers, inserts, supports, supplementary steel, etc., to properly support all equipment, ductwork and piping in an approved manner and in full accordance with the manufacturers recommendations.
 - c. For support of pipes with operating weight of 50 pounds per foot, consult with structural engineer for delegated engineering design.
- T. Cutting, Patching, and Demolition:
1. Remove piping and ductwork indicated on the plans to be removed. Terminate at mains, Cap water- or air-tight.
 2. Present to owner a list of equipment to be removed. At owner's direction, remove to a designated location any equipment that the owner chooses to retain. Remove all other equipment from the site and dispose of according to local regulations.
 3. Remove unused power and control wiring and pneumatic tubing.
 4. Repair damaged insulation. Match existing materials and installation methods or match specifications for new work. Do not use any asbestos-containing material.
 5. Patch ductwork and piping using specifications for new work.
 6. Temporary disconnection: Remove, store, clean, re-install, re-connect, and make operational any equipment indicated for relocation.
 7. Protect existing building components, materials, and finishes that are indicated to remain. Where building materials must be cut, removed, or damaged, restore to existing condition or comply with specifications for new work. Coordinate with other trades.
 8. Where masonry must be penetrated, cut with saws or core drill.
- LOUVERS:
- A. Type: Stationary, drainable blades, 37.5 degree. Blades drain to jamba; jamba has downspouts to drain out at louver sill.
- B. Frame: 4-inches deep.
- C. Ratings: Per AMCA 500 for air and water penetration performance. Ratings shall bear the AMCA seal.
- D. Wind Load: 30 psf (110 mph wind equivalent). Manufacturer to provide installation instructions for supporting multiple sections, where required, to meet wind load performance.
- E. Free Area: 53% based on 48x48 louver, or as scheduled.
- F. Pressure Loss: maximum 0.1 inch w.g. at 700 pm free area velocity.
- G. Rain Penetration: 0.01 oz/sqft at 87.5 km free area velocity for 48x48 louver.
- H. Blades and Frames extruded aluminum with 1.2mil Kynar finish.
- I. Removable bird screens, expanded, flattened aluminum.
- J. Installation: Per manufacturer's printed instructions and architectural details.
- PIPING & SPECIALTIES:
- A. General:
1. All welding in accordance with the national certified pipe welding bureau or other approved procedure conforming to the requirements of ASME Boiler and Pressure Vessel Code & ANSI 31.1. All welders shall be certified.
 2. Provide brass dielectric fitting at dissimilar metals.
 3. Support and anchor all piping. Size hangers on cold pipe to clear insulation and provide 12-inch long galvanized steel shield between hanger.
- B. Natural Gas Piping:
1. Steel Piping: Schedule 40 black steel Type E or S, Grade B. Malleable iron threaded fittings. Threaded joints NPS 2 and smaller; 125 psi class fittings for 75 psig and lower.
 2. Corrugated, stainless-steel tubing (ANSI/AS LCI) coating with h-PE with flame retardant. Maximum of 3 feet in length for final equipment connections.
- C. Valves:
1. Shutoff valves, NPS 2.5 and smaller: Ball Valves, two-piece construction, full port, bronze body with ball and stem, MSS SP-110.
- D. Installation:
1. Route piping in orderly manner, plumb and parallel to building structure, and maintain gradient.
 2. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
 3. Provide clearance for installation of insulation and access to valves and fittings.
 4. Do not run piping through transformer vaults or other electrical or electronic equipment spaces and enclosures.
 5. Maintain 42" clearance from switchboards, panelboards and motor control centers.
 6. Install unions or flanges downstream of valves and at equipment or apparatus connections.
- HVAC POWER VENTILATORS:
- A. Direct-drive units with internal speed control for balancing.
- B. Shaft Bearings: Pre-lubricated and sealed, self-aligning, L50 life of 200,000 hours.
- C. Ratings: certified in accordance with AMCA for air and sound performance.
- D. Provide electrical disconnect.
- E. Manufacturers: Cook, Greenheck.
- F. Propeller Exhaust Fan: Galvanized steel body and butterfly dampers, weather hood.
- GAS UNIT HEATER:
- A. Direct-drive units not connected to variable frequency drive have internal speed control for balancing, ECM motors.
- B. Cabinet: galvanized steel with baked-enameled finish, access doors, glass-fiber insulation, and reflective liner.
- C. Fuel: natural gas.
- D. Heat exchanger: welded stainless steel.
- E. Gas burner: sealed combustion air supply and flue.
- F. Motor - ventilated, built-in automatic reset overload protection, 1/4 hp or greater have ball bearings.
- G. Fan - draw-thru design assures even air distribution.
- H. Louvers - individually adjustable.
- HVAC CONTROLS:
- A. Integrated controllers are controller that are provided as a part of mechanical equipment.
- B. Actuators: Electric, quarter-lam, 120VAC for larger valves and dampers. Use modulating actuators, except where spring return control is required. Actuator wiring is Control Wiring.
- C. Dampers: AMCA-rated, galvanized steel or anodized aluminum frame, arrow-shaped dampers with blade and edge seals for tight shutoff, leakage less than 10 cfm per sqft of damper area at 4-inches w.g. differential pressure and 50 ft-hg closing torque. Use parallel-blade dampers in air mixing applications; opposed-blade otherwise.
- TESTING, ADJUSTING AND BALANCING:
- A. Balancing contractor shall be independent, certified AABC or NEBB member.
- B. Examine systems for installed balancing devices, such as test ports, gage cocks, thermometer wells, flow control devices, balancing valves and fittings, and manual volume dampers. Verify that locations of these balancing devices are accessible.
- C. Examine system and equipment installations and verify that field quality-control testing, cleaning, and adjusting specified in individual sections have been performed.
- D. Examine HVAC equipment and filters and verify that bearings are greased, belts are aligned and tight, and equipment with functioning controls is ready for operation.
- E. Report deficiencies discovered before and during performance of tab procedures. Observe and record system reactions to changes in conditions. Record default set points if different from indicated values.
- F. Complete air balance must be accomplished before actual water balance begins.
- G. Provide a certified testing and balance report for review and inclusion in turnover package to owner, pdf format. Format forms in accordance with AABC or NEBB standards.
- COMMISSIONING:
- A. Startup HVAC systems and perform operational commissioning. Run test all systems to verify that control systems are fully operational and the sequence of operation is met. Submit a written report to the owner and engineer for verification. Provide a minimum of eight hours of training to the building operational personnel on proper operation and maintenance of each system and system component. Provide to the owner complete documentation, including all submittals, O&M manuals, warranties, as-builts, Test and Balance reports, etc.
- B. Deliverables:
1. Perform functional performance tests.
 2. Provide commissioning plan.
 3. Provide final commissioning report.
 4. Closeout documentation.
- END OF DIVISION 23 SHEET SPEC



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Project Information

SHS - STORAGE BUILDING
1311 N Mildred Rd,
Cortez, CO 81321

Sheet Information

Sheet Title:

MECHANICAL SHEET SPEC

Sheet Number:

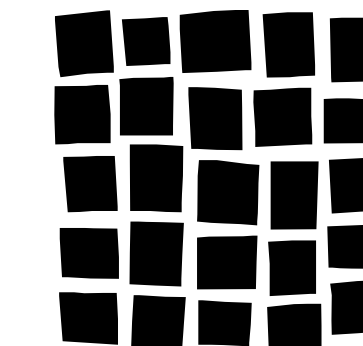
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DPA Project: ##### # # # #

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SHS - STORAGE BUILDING
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Sheet Information

Sheet Title:
MECHANICAL PLANS

Sheet Number:

M200

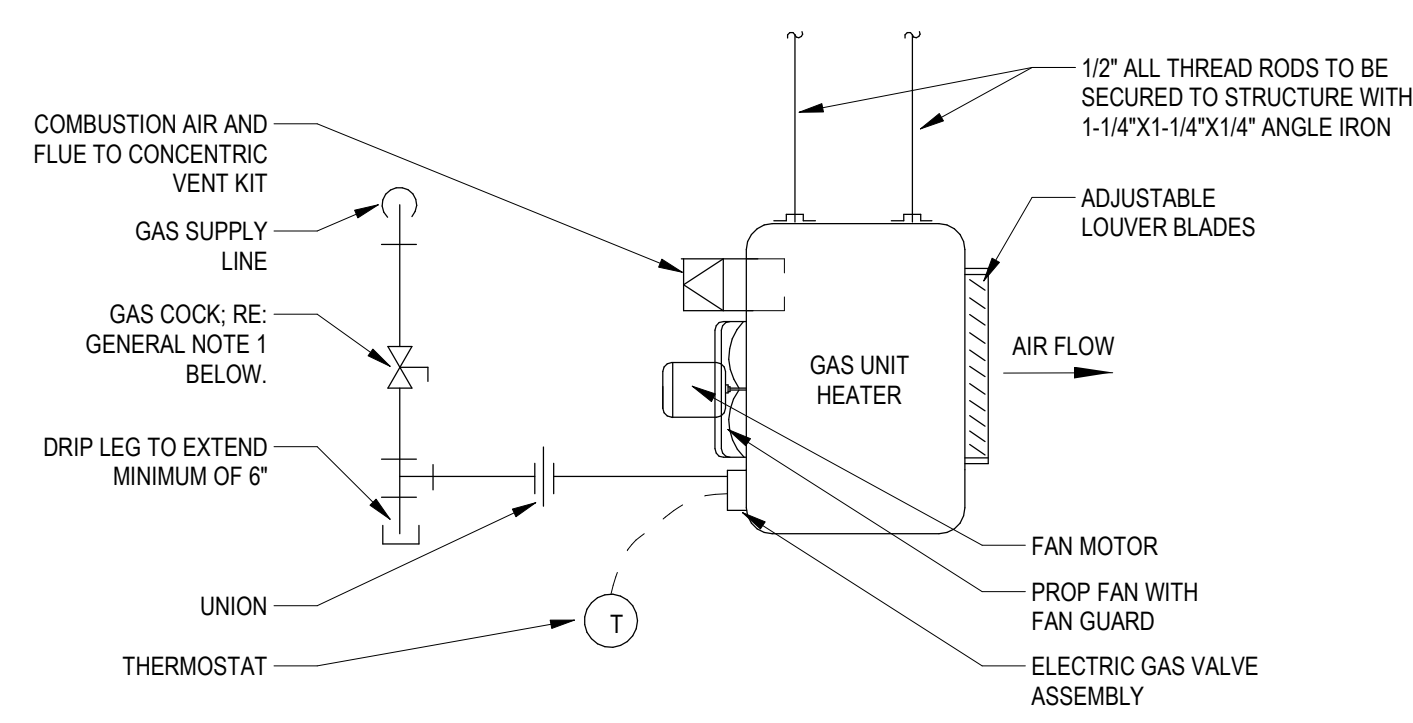
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UNIT HEATERS - GAS												
SYMBOL	MANUFACTURER/ MODEL	CAPACITY MBH		VENT (IN)	GAS CONNECTION (IN)	AIRSIDE		MOTOR		MOUNTING HEIGHT (FT)	OPER WEIGHT (LBS)	REMARKS
		INPUT	OUTPUT			CFM	TEMP RISE (°F)	HP	RPM			
UH-1	MODINE / HDS125	125	102.5	4	1/2	1980	47	1/8	1625	13	125	1-3
UH-2	MODINE / HDS45	45	36.9	3	1/2	720	46	1/15	1550	8	60	1-2

NOTES: 1. PROVIDE HONEYWELL CT50K1028/E (OR SIMILAR) REMOTE WALL MOUNTED 24V THERMOSTAT.
2. PROVIDE HIGH ALTITUDE KIT, HORIZONTAL CONCENTRIC VENT KIT.
3. PROVIDE TWO-STAGE CONTROL.

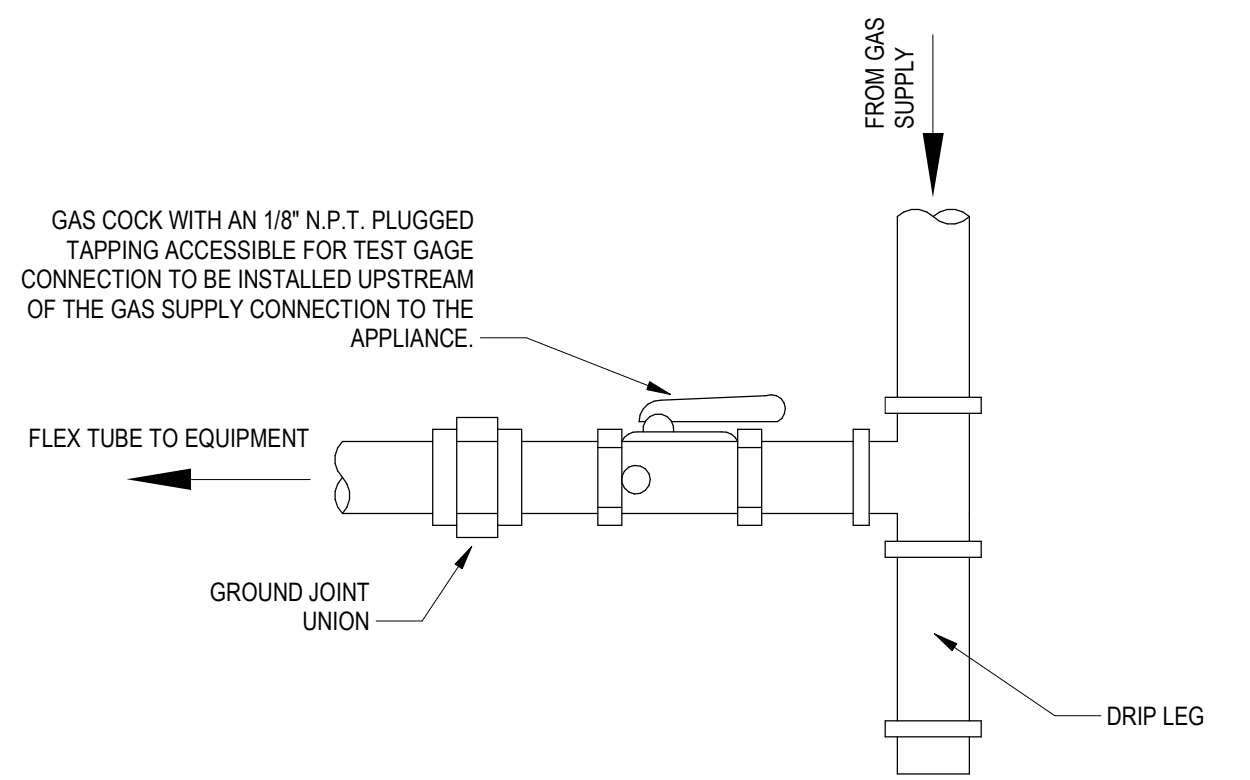
FANS												
SYMBOL	MANUFACTURER/ MODEL	TYPE	CFM	MIN SP (IN)	FAN (RPM)	SOUND (DBA)	CASING SIZE WxH (IN)	MOTOR		V/PHHZ	OPER WEIGHT (LBS)	REMARKS
								BHP	HP			
RF-1	GREENHECK / SE1-18-42B-A	INLINE	4000	0.25	1725	67	24X24	0.6	3/4	115/60/1	48	ALL

NOTES: 1. PROVIDE WALL MOUNTED THERMOSTAT, AND INTERLOCK FAN WITH LOUVER DAMPERS.
2. PROVIDE DISCONNECT SWITCH AND SPEED CONTROL.
3. PROVIDE WEATHERHOOD KIT (WTHD-12) AND BACKDRAFT DAMPER (WD320).

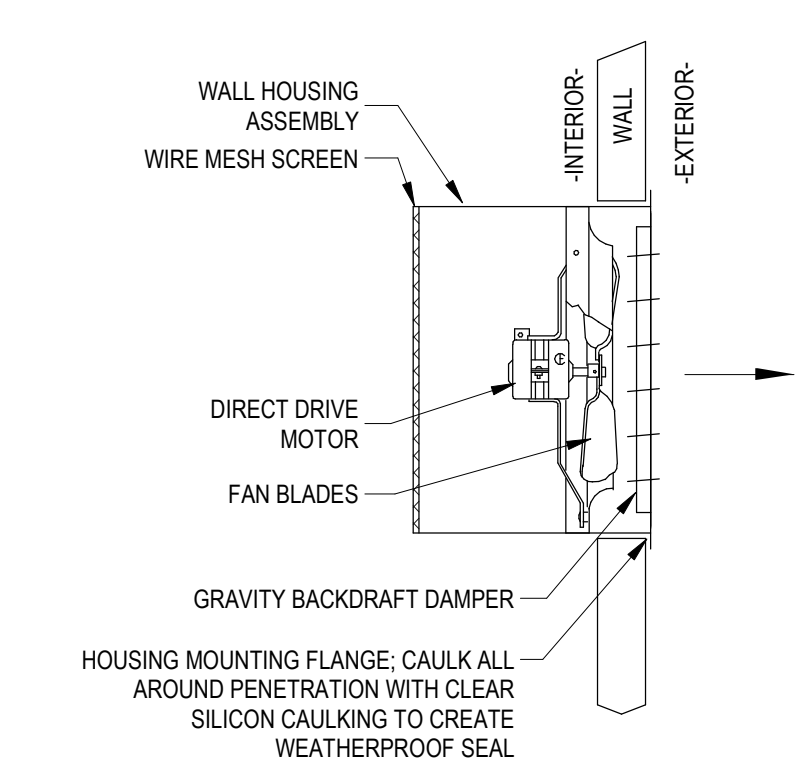


GENERAL NOTES:
1. GAS COCK TO BE LOCATED UPSTREAM FROM UNION AND WITHIN 6'-0" FROM UNIT HEATER.

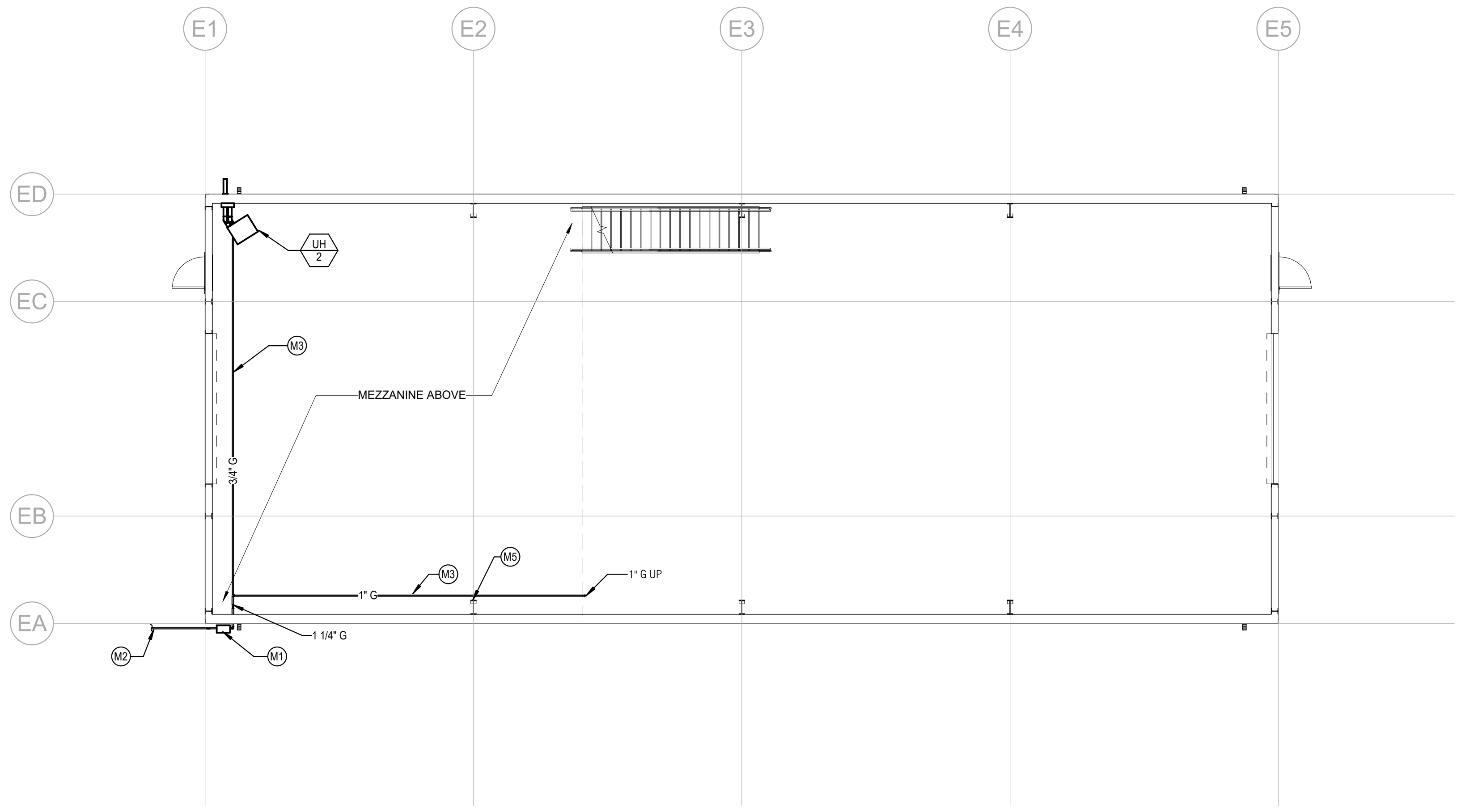
3 UNIT HEATER
M200 NOT TO SCALE



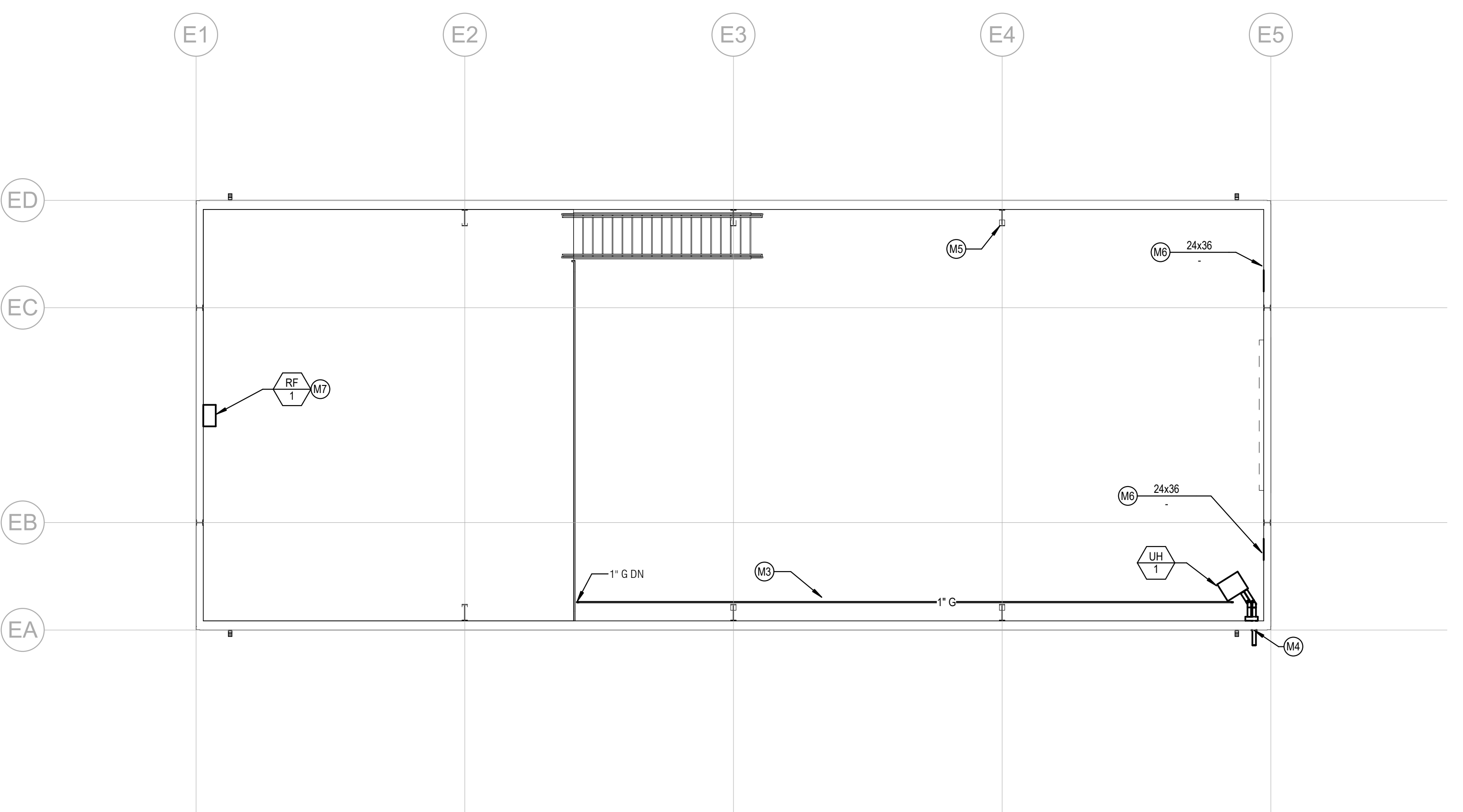
4 GAS CONNECTION TO EQUIPMENT
M200 NOT TO SCALE



5 PROPELLER EXHAUST FAN
M200 NOT TO SCALE



1 MECHANICAL PLAN - LEVEL 1
M200 1/8" = 1'-0"

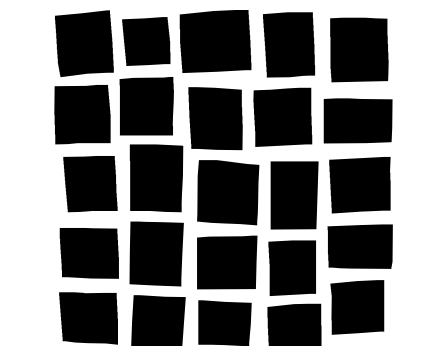


2 MECHANICAL PLAN - MEZZANINE
M200 1/8" = 1'-0"

KEYNOTES

- M1 (N) NATURAL GAS METER, 1/4 IN WG PRESSURE, 170MBH LOAD AT 150 FT LENGTH.
- M2 UNDERGROUND NATURAL GAS PIPING, REFER TO CIVIL FOR CONTINUATION.
- M3 NATURAL GAS PIPING ROUTED TIGHT TO WALL/STRUCTURE.
- M4 SEALED COMBUSTION SYSTEM FOR UNIT HEATER, PROVIDE CONCENTRIC VENT KIT THROUGH EXTERIOR WALL, INSTALL AND SUPPORT VENT PER MANUFACTURER REQUIREMENTS.
- M5 REMOTE THERMOSTAT FOR UNIT HEATER.
- M6 RELIEF AIR LOUVER INLET WITH MOTORIZED TWO POSITION DAMPER, GREENHECK ICD-44 WITH 120V ACTUATOR (OR SIMILAR).
- M7 RELIEF AIR VENTILATION FAN IN SIDEWALL WITH GRAVITY BACKDRAFT DAMPER, INTERLOCK FAN WITH LOUVER DAMPERS.

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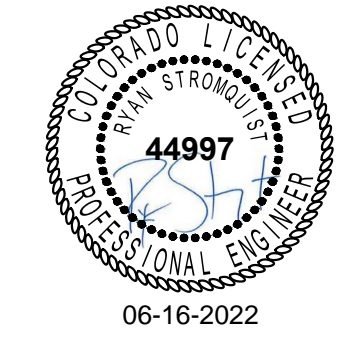
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Project Information

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Sheet Information

Sheet Title:
POWER PLANS

Sheet Number:

E200

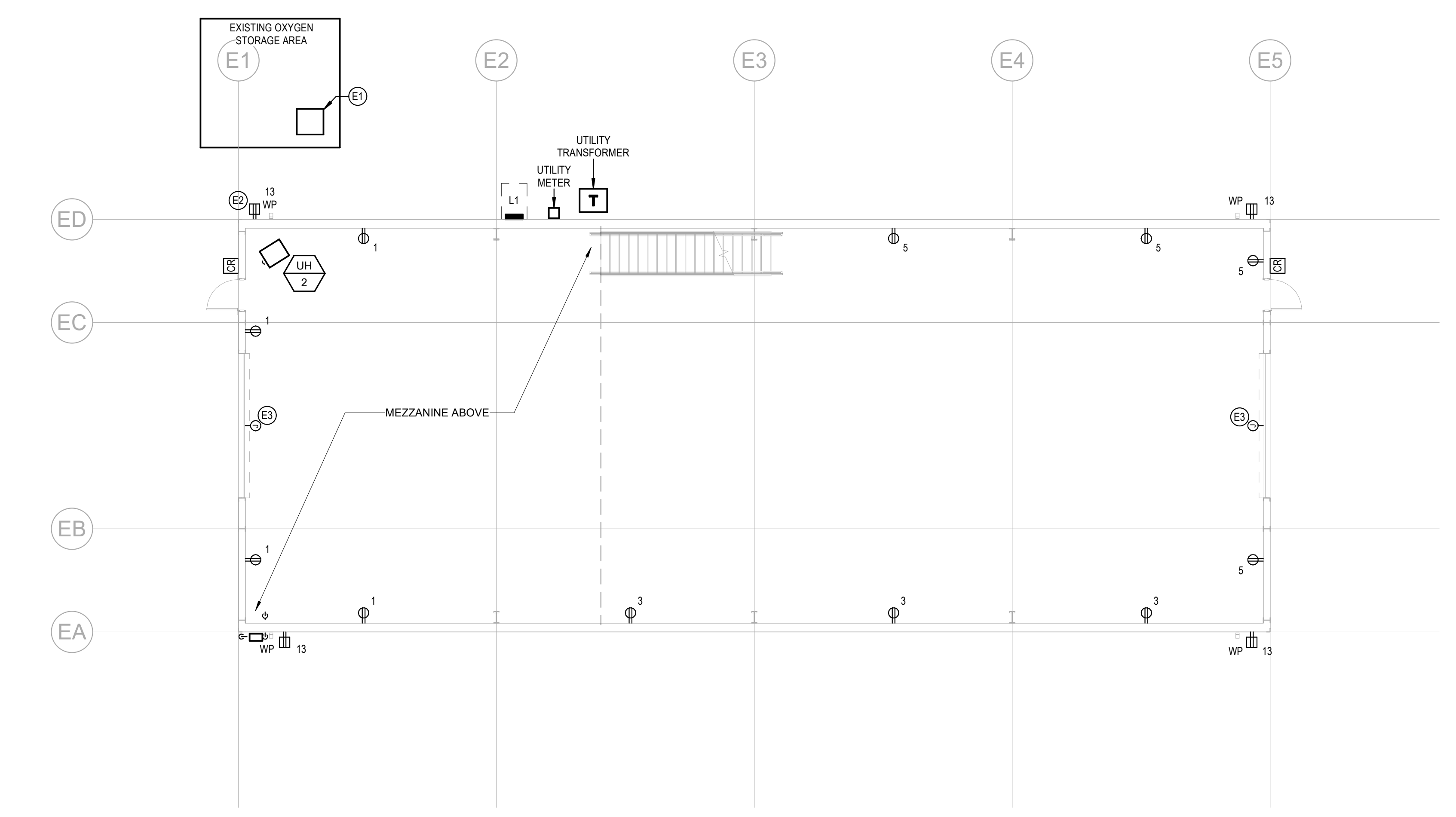
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SHEET NOTES

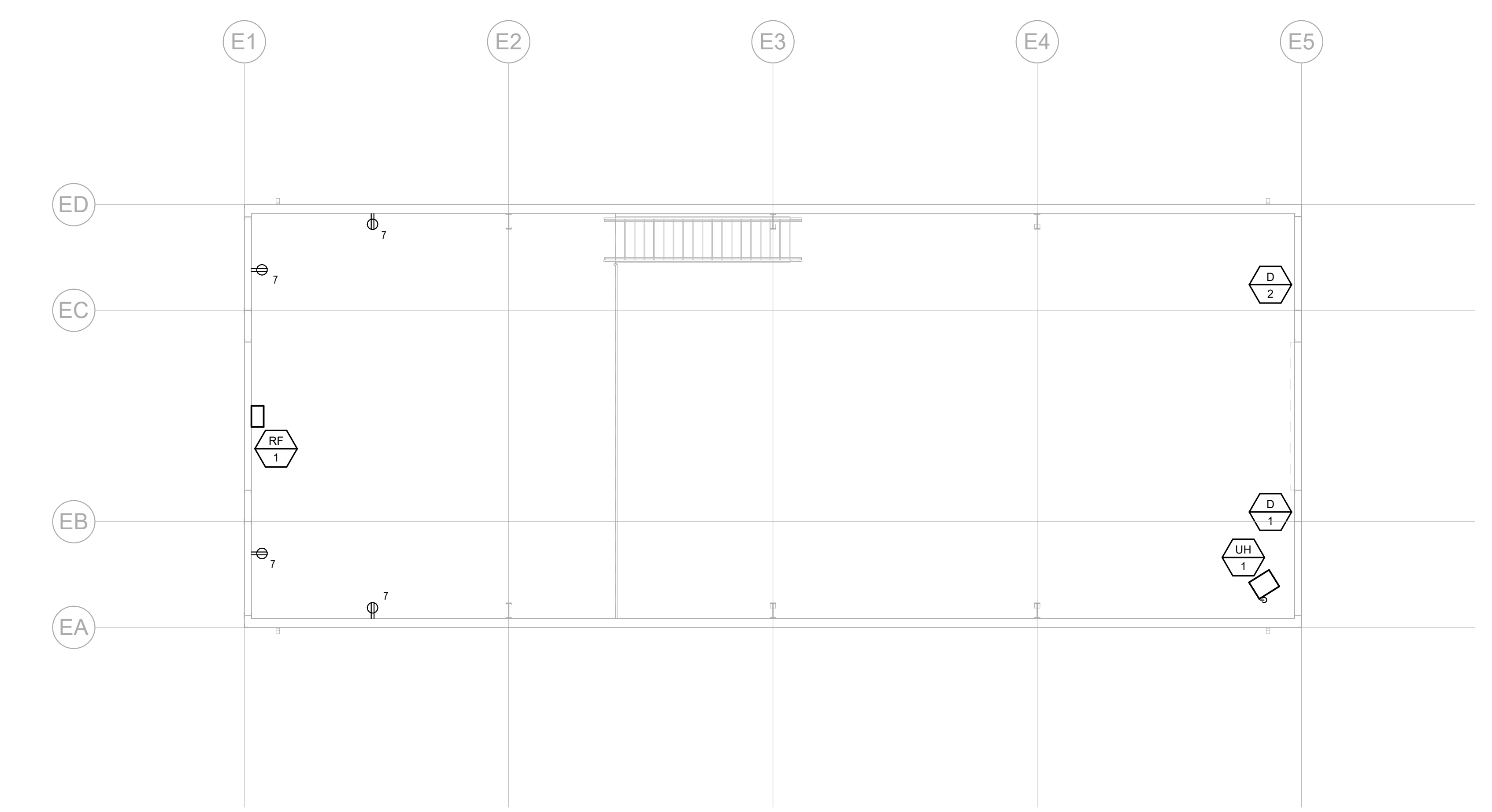
- A. ALL DEVICES SHOWN ARE NEW.
- B. COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH MECHANICAL AND PLUMBING DRAWINGS PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS. REFER TO EQUIPMENT SCHEDULE AND PANEL SCHEDULES FOR MORE INFORMATION.
- C. CIRCUIT ALL DEVICES ON THIS SHEET TO PANEL "L1", UNLESS OTHERWISE NOTED. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
- D. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.

KEYNOTES

- E1. POTENTIAL LOCATION FOR POWER SERVICE TO BUILDING. ELECTRICAL CONTRACTOR TO COORDINATE WITH LOCAL UTILITY COMPANY FOR CONNECTION OF ELECTRICAL SERVICE.
- E2. PROVIDE WEATHERPROOF RECEPTACLE AND COVER, TYPICAL OF ALL WEATHERPROOF RECEPTACLES (WRF).
- E3. PROVIDE DEDICATED ELECTRICAL CIRCUIT TO POWER OVERHEAD DOOR. CONFIRM CIRCUIT SIZE WITH FINAL EQUIPMENT SELECTION.

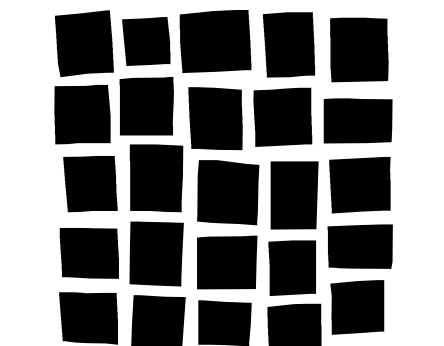


1 POWER PLAN - LEVEL 1
E200
1/8" = 1'-0"



2 POWER PLAN - MEZZANINE
E200
1/8" = 1'-0"

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Sheet Information

Sheet Title:
LIGHTING PLANS

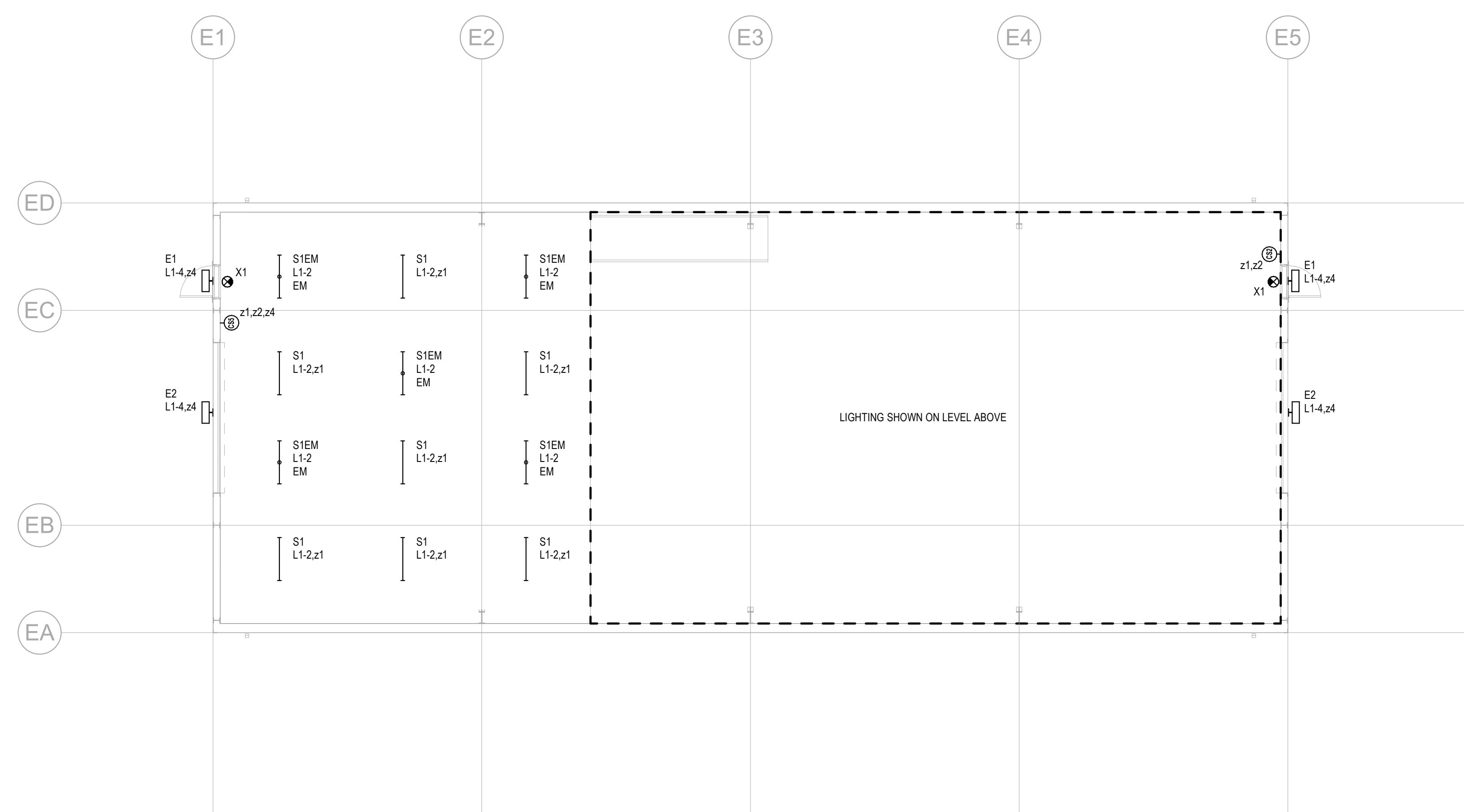
Sheet Number:

E300

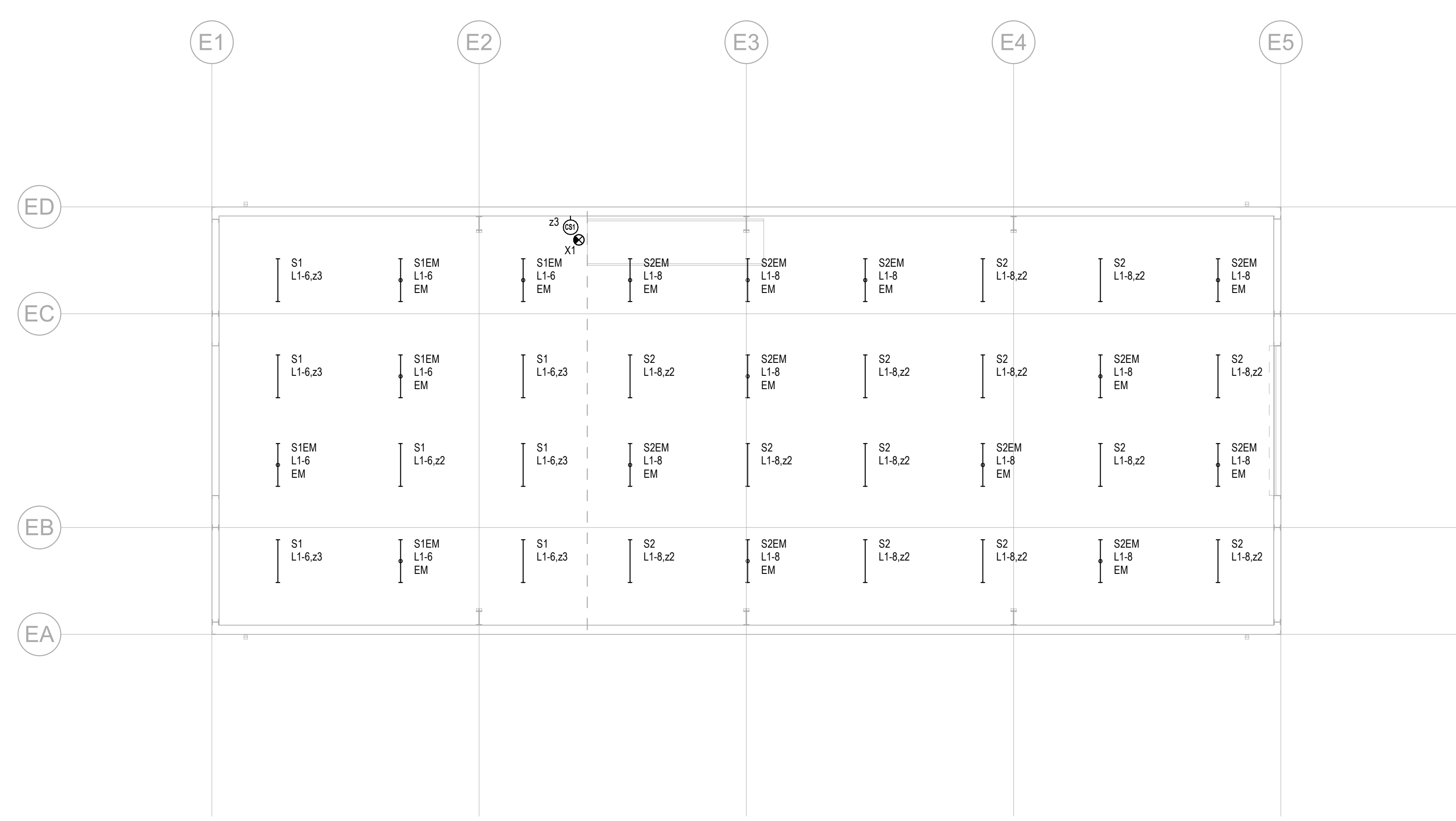
DPA Project: #####-###-###

SHEET NOTES

- A. REFER TO ARCHITECTURAL DRAWINGS FOR SCOPE OF WORK AREAS.
- B. ALL LUMINAIRES AND DEVICES SHOWN ARE NEW
- C. REFER TO LUMINAIRE SCHEDULE, LIGHTING CONTROL DEVICE SCHEDULE AND LIGHTING CONTROL ZONE SCHEDULE FOR MORE INFORMATION.
- D. CIRCUIT ALL NORMAL LUMINAIRES ON THIS SHEET TO PANEL L1, UNLESS OTHERWISE NOTED. REFER TO PANEL SCHEDULES FOR MORE INFORMATION.
- E. CIRCUIT ALL EXIT SIGNS TO ADJACENT LIFE SAFETY LIGHTING CIRCUIT AHEAD OF CONTROLS, UNLESS OTHERWISE NOTED.
- F. WHERE SHADED (EMERGENCY) LUMINAIRES ARE UN-SWITCHED THEY SHALL SERVE AS NIGHT LIGHTS AND BE LEFT ON AFTER HOURS FOR WAY FINDING. CIRCUIT AHEAD OF CONTROLS.
- G. WHERE EXPOSED CONDUIT IS NOTED, CONTRACTOR SHALL IDENTIFY ROUTING IN FIELD AND OBTAIN ARCHITECT'S APPROVAL OF ROUTING PRIOR TO ROUGH-IN. EXPOSED CONDUIT SHALL BE ROUTED TIGHT TO STRUCTURE.
- H. MINIMUM 0-10V CONTROL WIRE SIZE SHALL BE #16 AWG FOR RUNS LONGER THAN 400'. FOR RUNS SHORTER THAN 400', PROVIDE #18 AWG WIRE. PROVIDE 0-10V WIRING TO ALL DIMMABLE 0-10V LIGHTING FIXTURES.



1 LIGHTING PLAN - LEVEL 1
E300 1/8" = 1'-0"



2 LIGHTING PLAN - MEZZANINE
E300 1/8" = 1'-0"