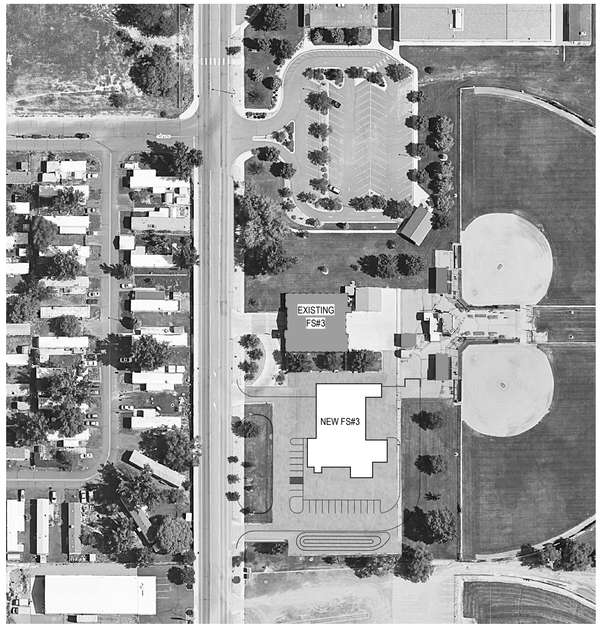

GRAND JUNCTION FIRE DEPARTMENT

FIRE STATION #3

582 25 1/2 ROAD, GRAND JUNCTION, COLORADO 81505

BG+co. PROJECT # 2072

01/29/2021 90% CONSTRUCTION DOCUMENT

2/25/2021 FOR CONSTRUCTION

FOR CONSTRUCTION

CIVIL / LANDSCAPE / ARCHITECTURAL / STRUCTURAL / MECHANICAL / PLUMBING / ELECTRICAL

PROJECT DESIGN TEAM

ARCHITECTURE / INTERIOR DESIGN:

BG+co.
Architecture
Interior Design
Project Management
BLYTHE GROUP + co.

CIVIL ENGINEERING:

A • C • G
Austin Civil Group, Inc.
Land Planning • Civil Engineering • Development Services

AUSTIN CIVIL GROUP
123 N SEVENTH STREET SUITE 300
GRAND JUNCTION, CO 81501

STRUCTURAL ENGINEERING:

Lindauer • Dunn, Inc.
STRUCTURAL ENGINEERS

802 Rood Avenue
Grand Junction, CO 81501
PHONE: 970-241-0900
FAX: 970-243-2430
www.lindauerdunn.com

LANDSCAPE ARCHITECTURE:

MRLA
Mitch Rewold Landscape Architect
Landscape Architecture and Land Planning

MECHANICAL, PLUMBING AND ELECTRICAL ENGINEERING:

386 Indian Road
Grand Junction, CO 81501
Phone: (970) 241-8709

101 W 11th Street #109-C
Durango, CO 81301
Phone: (970) 422-7676

Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers

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

ACT	ACOUSTIC CEILING TILE	HVAC	HEATING VENTILATING & AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
ADD-X	ADDENDUM NO. X	ID	INSIDE DIAMETER	VCT	VINYL COMPOSITION TILE
AFF	ABOVE FINISH FLOOR	ILLUM	ILLUMINATED	VERT	VERTICAL
AHU	AIR HANDLING UNIT	INCL	INCLUDED	VFY	VERIFY
AL	ALUMINUM	INSUL	INSULATION	VIF	VERIFY IN FIELD
ALT	ALTERNATE	INT	INTERIOR	VWC	VINYL WALL COVERING
ALT-X	ALTERNATE NO. X	JT	JOINT	W	WIDE / WIDTH
AM	ACOUSTIC MATERIAL	L	LONG / LENGTH	W/	WITH
AM-X	ACOUSTIC MATERIAL TYPE X	LAV	LAVATORY	W/O	WITHOUT
ARCH	ARCHITECT / ARCHITECTURAL	LLH	LONG LEG HORIZONTAL	WD	WOOD
ATTEN	ATTENUATION	LLV	LONG LEG VERTICAL	WOM	WALK OFF MAT
AVE	AVENUE	MAS	MASONRY		
AVG	AVERAGE	MATL	MATERIAL		
B.O.	BOTTOM OF	MAX	MAXIMUM		
BIT	BITUMINOUS	MECH	MECHANICAL		
BLDG	BUILDING	MFR	MANUFACTURER		
BLKG	BLOCKING	MIN	MINIMUM		
C/L	CENTER LINE	MISC	MISCELLANEOUS		
CEM	CEMENT / CEMENTITIOUS	MO	MASONRY OPENING		
CJ	CONTROL JOINT	MTD	MOUNTED		
CLG	CEILING	MTL	METAL		
CLR	CLEAR	NA	NOT APPLICABLE		
CMU	CONCRETE MASONRY UNIT(S)	NIC	NOT IN CONTRACT		
CONC	CONCRETE	NO.	NUMBER		
CONT	CONTINUOUS	NRC	NOISE REDUCTION COEFFICIENT		
CPT	CARPET	NTS	NOT TO SCALE		
CT	CERAMIC TILE	OC	ON CENTER		
CTR	CENTER	OD	OUTSIDE DIAMETER		
D	DEEP / DEPTH	OPNG	OPENING		
DBL	DOUBLE	OPP	OPPOSITE		
DEMO	DEMOLISH / DEMOLITION	PERF	PERFORATED		
DEPT	DEPARTMENT	PLAM	PLASTIC LAMINATE		
DF	DRINKING FOUNTAIN	PLBG	PLUMBING		
DIA / Ø	DIAMETER	PLYWD	PLYWOOD		
DIM(S)	DIMENSION(S)	PNT	PAINT		
DN	DOWN	PREFAB	PREFABRICATED		
DTL	DETAIL	PREFIN	PREFINISHED		
DW	DISHWASHER	PT	PORCELAIN TILE		
DWG	DRAWING	QT	QUARRY TILE		
EA	EACH	QTY	QUANTITY		
EJ	EXPANSION JOINT	R	RADIUS		
EL	ELEVATION	RB	RUBBER BASE		
ELEC	ELECTRICAL	RCP	REFLECTED CEILING PLAN		
EQ	EQUAL	REF	REFERENCE / REFER TO		
EQUIP	EQUIPMENT	REFR	REFRIGERATOR		
EWC	ELECTRIC WATER COOLER	REINF	REINFORCE (D) (ING)		
EXIST	EXISTING	REQD	REQUIRED		
EXT	EXTERIOR	RES	RESILIENT		
F.O.	FACE OF	RFS	ROOM FINISH SCHEDULE		
FAAB	FLUID APPLIED AIR BARRIER	RO	ROUGH OPENING		
FAAP	FIRE ALARM ANNUNCIATOR PANEL	ROW	RIGHT OF WAY		
FACP	FIRE ALARM CONTROL PANEL	RTU	ROOF TOP UNIT		
FBO	FURNISHED BY OWNER	SC	SEALED CONCRETE		
FD	FLOOR DRAIN	SCHED	SCHEDULE (D)		
FDN	FOUNDATION	SECT	SECTION		
FE	FIRE EXTINGUISHER	SF	SQUARE FEET		
FEC	FIRE EXTINGUISHER CABINET	SFT	STORE FRONT		
FF	FINISHED FLOOR	SIM	SIMILAR		
FRP	FIBERGLASS REINFORCED PLASTIC	SPEC	SPECIFICATION		
FTG	FOOTING	SQ	SQUARE		
FURN	FURNISHING / FURNITURE	SS	STAINLESS STEEL		
GA	GAGE	SSM	SOLID SURFACE MATERIAL		
GALV	GALVANIZED	STL	STEEL		
GL	GLAZING	STN	STAIN		
GL-X	GLAZING TYPE X	STRUCT	STRUCTURAL		
GWB	GYPSUM WALL BOARD	TA	TOILET ACCESSORY		
H	HIGH / HEIGHT	T&G	TONGUE & GROOVE		
HC	HANDICAPPED	T.O.	TOP OF		
HDW	HARDWARE	TEMP	TEMPORARY		
HDWD	HARDWOOD	TV	TELEVISION		
HM	HOLLOW METAL	TYP	TYPICAL		
HORIZ	HORIZONTAL				

DRAWING INDEX

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970-242-1058 office

BLYTHE GROUP + co.

GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

TITLE SHEET

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/25/2021

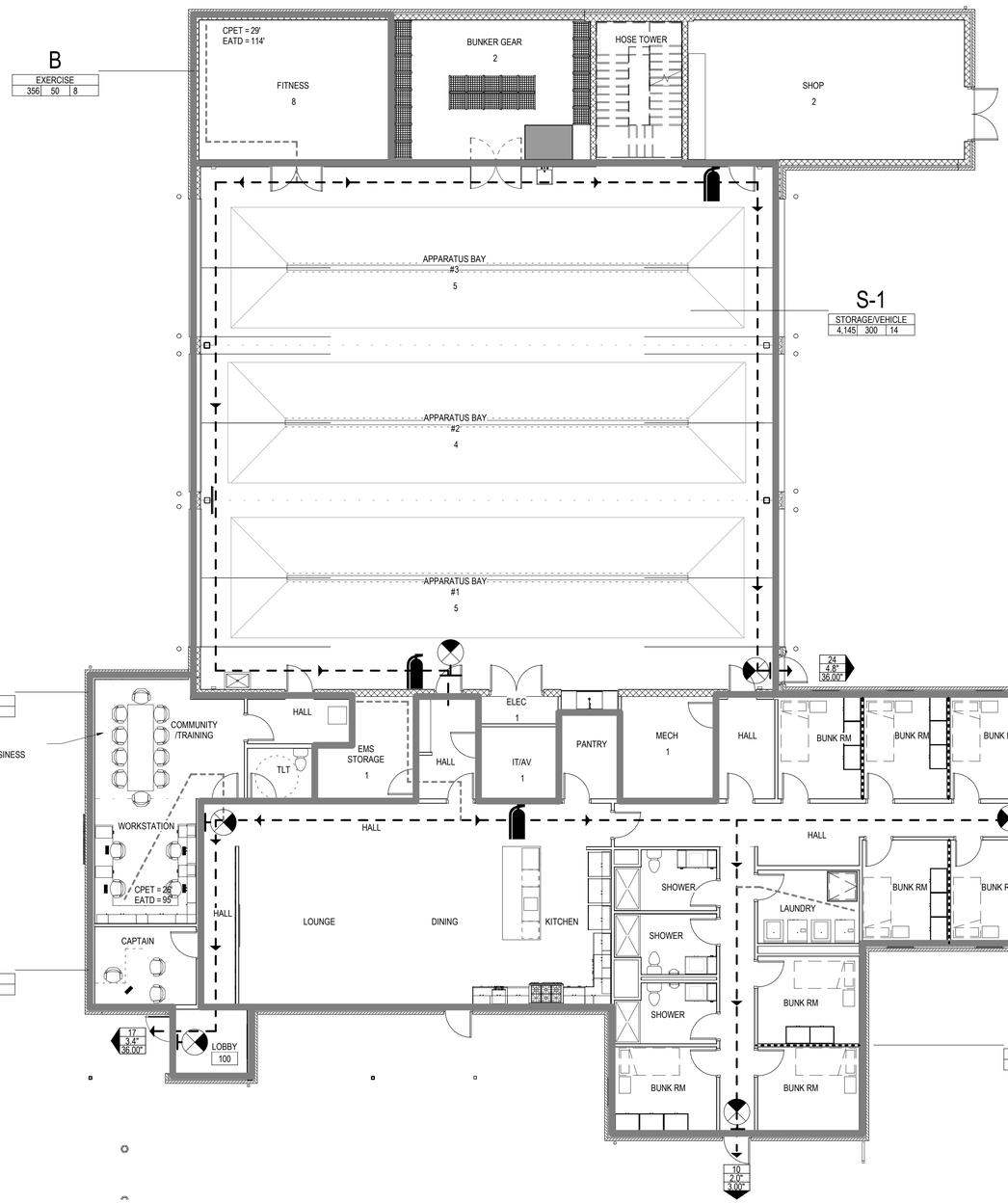
PROJECT #: 2072

SHEET #:

G0-1

Project Team:

Print Date: 2/25/2021 3:03:47 PM



BUILDING CODE ANALYSIS

CODE JURISDICTION:
2018 INTERNATIONAL BUILDING CODE (IBC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL PLUMBING CODE (IPC)
2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 NATIONAL ELECTRICAL CODE (NEC)

MIXED USE AND OCCUPANCY:
NON-SEPARATED OCCUPANCIES (PER SECTION 508.3)

OCCUPANCY:
B : BUSINESS
R-2 : RESIDENTIAL
S-1 : STORAGE

OCCUPANT LOADS:
BUSINESS= 17
RESIDENTIAL= 16
STORAGE= 19
FITNESS= 8
MECHANICAL= 3
TOTAL OCCUPANT LOAD= 63

CONSTRUCTION TYPE:
CONSTRUCTION TYPICAL OF TYPE V-B.

AUTOMATIC SPRINKLER SYSTEM:
WILL BE PROVIDED

BUILDING AREA:
ACTUALTOTAL BUILDING: 10,500 SF
ALLOWED [IBC 506.1] 28,000 SF

BUILDING HEIGHT:
ACTUAL HEIGHT: 34'-0" AFF, 1 STORY
ALLOWABLE HEIGHT: 60'-0", 2 STORIES [IBC 504];

BUILDING SETBACKS IN THE CSR ZONE DISTRICT:
FRONT 25'-0" ,
SIDE 5'-0"
REAR 10'-0".
MAXIMUM HEIGHT IS 65 FT.

FIRE RESISTANCE RATING REQUIREMENTS:
(FOR TYPE V-B 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

EXIT TRAVEL DISTANCE:
FOR R-2 OCCUPANCY:
COMMON PATH OF EGRESS TRAVEL: 125 FT WITH SPRINKLER SYSTEM, IBC TABLE 1014.3
EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM, IBC TABLE 1016.2

FOR B OCCUPANCY:
COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM, IBC TABLE 1014.3
EXIT ACCESS TRAVEL DISTANCE: 300 FT WITH SPRINKLER SYSTEM, IBC TABLE 1016.2

FOR S-1 OCCUPANCY:
COMMON PATH OF EGRESS TRAVEL: 100 FT WITH SPRINKLER SYSTEM, IBC TABLE 1014.3
EXIT ACCESS TRAVEL DISTANCE: 250 FT WITH SPRINKLER SYSTEM, IBC TABLE 1016.2

PLUMBING FIXTURE COUNT:

					WC'S		LAV		SHOWER		DF		SS	
					REQ'D	PROV	REQ'D	PROV	REQ'D	PROV	REQ'D	PROV	REQ'D	PROV
OCCUPANCY TYPE		OCC LD	MEN	WOMEN	M / W	M /W	M / W	M / W	M / W					
RESIDENTIAL	(R-2)	16	8	8	.3 / .3		.2 / .2		2	3				
BUSINESS	(B)	17	9	9	.3 / .3		.2 / .2							
OTHER*		30	15	15	.6 / .6		.3/ .3				1	1	1	2
TOTALS	M / W				2 / 2		1 / 1							
UNISEX						4		4						
TOTAL FOR BUILDING						4		4	2	3	1	1	1	2

* FITNESS,STORAGE,MECHANICAL

OCCUPANCY GROUP BOUNDARY
CONTINUATION OF EGRESS PATH
EGRESS ROUTE
COMMON PATH OF EGRESS
FIRE EXTINGUISHER
DIRECTION OF TRAVEL
EMERGENCY EXIT LIGHT
EXIT LOAD
REQUIRED WIDTH (INCHES)
ACTUAL WIDTH (INCHES)
8
1.6"
0.00"
DIRECTION OF TRAVEL
COMMON PATH OF EGRESS TRAVEL
EXIT ACCESS TRAVEL DISTANCE
CPET = 30'
EATD = 132'
OCCUPANCY GROUP
USE
AREA
S-2
STORAGE
250 | 100 | 3
OCCUPANT LOAD
OCCUPANT LOAD FACTOR

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BLYTHE GROUP + co.

GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

LIFE SAFETY PLAN

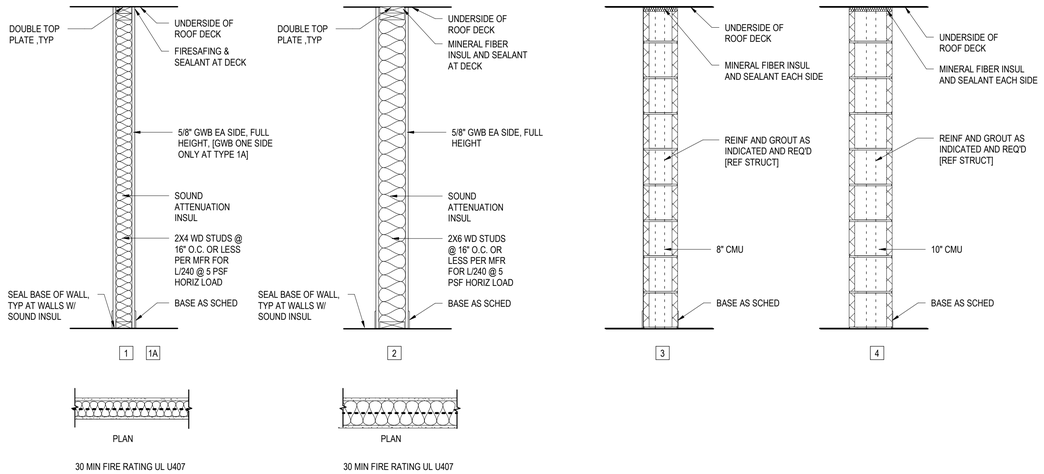
FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021
PROJECT #: 2072
SHEET #:
G1-1

Project Team:
Print Date: 2/25/2021 3:03:51 PM

WALL TYPES



GENERAL NOTES:

1. WALL TYPES ARE KEYED FROM FLOOR PLANS. PROVIDE FIRE BLOCKING AS REQUIRED PER IBC SEC. 717.2.
2. SEE DOOR SCHEDULE FOR CONDITIONS AT DOORS.
3. REFER TO STRUCTURAL DRAWINGS FOR MULTI-STUD AND SPACING CONDITIONS FOR BEARING WALLS AND SHEAR WALLS.
4. SEE FINISH SCHEDULE FOR APPLIED FINISHES.
5. BACKER BOARD LOCATIONS ARE PER DETAILS AND CONTINUOUS ON CEILING AND WALLS IN SHOWER AREAS.

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Grand Junction, CO 81501
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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ASSEMBLY TYPES

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

G3-1

Project Team:

Print Date: 2/25/2021 3:03:51 PM

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT MARK BARSLUND, CITY OF GRAND JUNCTION'S DEVELOPMENT INSPECTOR, AT (970) 201-1362, A MINIMUM OF 72 HOURS IN ADVANCE, FOR A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING WORK

2. Locations of existing utilities shown on these plans are approximate only. Contractor is to contact affected utility for specific locations before digging. The Contractor shall notify the engineer if unanticipated conditions are encountered during completion of the work which require modifications to the contract drawings. The engineer can be reached at 970-242-7540.

3. Contractor shall give 48-hour notice to all authorized inspectors, superintendents, or persons in charge of public and private utilities affected by his operations prior to commencement of work. Contractor shall assure himself that all construction permits are current.

4. Contractor shall confine his construction operations to the right-of-way, easements, and lots, as shown on plans and plat. Any damage to private facilities outside these limits shall be repaired by the Contractor at no expense to the Owner.

5. All road construction, related work, materials, performance and quality of work provided shall conform to the requirements of the City of Grand Junction Standard Specifications and Drawings and the applicable sections of the most current edition of the Division of Highways, State of Colorado Standard Specifications for Road and Bridge Construction, Colorado Standard Plans, Division of Highways M & S Standards.

6. Contractor shall familiarize himself with the geotechnical testing requirements of the City of Grand Junction. The results of the required types of tests and numbers of passing tests shall be furnished to the Engineer for verification before final acceptance by the Owner will be granted. All failing tests shall be brought to the immediate attention of the Engineer and retests shall be performed until passing results are obtained. All utility lines, including service lines falling shall be tested.

7. Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for utility trench back fill unless otherwise approved by the Engineer.

8. All utility installations are to be performed in accordance with the City of Grand Junction Standard Specifications for the Construction of Underground Utilities and Standard Details.

9. All sewer lines must be tested and approved PRIOR to street construction. Contractor is required to notify the Owner's representative PRIOR to testing. The Owner's representative must be present to witness testing of water and sewer lines or the City will not approve the installation.

10. In the event of a discrepancy between the construction notes contained herein and the notes and details in the City of Grand Junction Standard Contract Documents for Capital Improvements Construction manual, the City's manual shall control.

11. All work within the City of Grand Junction Right-of-Way shall require a "Work in the Right-of-Way" Permit. All construction work shall be in accordance with the latest edition of the City of Grand Junction Standard Specifications.

12. All concrete in driveways to include 8-inch minimum, Class VI ABC, unless otherwise noted.

13. Finished ground surface shall drop at least six inches within the first ten feet away from the structure. Where impermeable surfaces (i.e. sidewalks, pavements, etc) are adjacent to the structure the grade can be reduced to 2.5-inches (ADA) within the first ten feet away from the structure.

14. All roof drains that do not connect directly to site storm sewer system shall be provided with splash blocks that extend beyond the building foundation excavation zone.

15. The Contractor shall be required to comply with the requirements and recommendations of Huddleston-Berry report titled Geotechnical and Geologic Hazards Investigation Project # 00208-0112 dated March 26, 2020, unless otherwise noted.

16. All fill, building, concrete or asphalt pavement areas shall be stripped of a minimum 6-inches of topsoil.

PAVING CONSTRUCTION NOTES

1. All road widths and radii are to flow line unless noted otherwise. Any "spot" design elevations are to flow line of curb and gutter unless otherwise noted.

2. Prior to pavement placement, the pavement prism should be stripped of all unsuitable materials. It is recommended that the subgrade soils be scarified to a depth of 12-inches, moisture conditioned, and recompacted to a minimum of 95% of the standard Proctor maximum dry density, within ±2% of optimum moisture as determined by AASHTO T-99.

3. Contractor to protect existing utilities and appurtenances. Manholes, drainage inlets, utility lines, etc., damaged, covered, or filled with dirt or debris by the Contractor shall be cleaned and repaired at no expense to the Owner.

4. Where proposed pavement is to match existing pavement, existing pavement is to be square cut, full base thickness is to be brought to match line and existing surface is to be tack-coated before proposed surface is placed.

5. All handicap ramps, sidewalks and curb and gutter are to be constructed where indicated on the plans and in accordance with The City of Grand Junction requirements.

6. Curb, gutter, and drainage pans are to have expansion joints at each change in horizontal alignment of curb and gutter, but in no case at a greater distance apart than 100 feet. Locate dummy grooved joints between expansion joints at intervals not exceeding 10 feet. Where length of pour precludes 10 foot intervals, the end sections may be less then 10 feet but not less than 5 feet.

7. PAVEMENT SECTION: See Table To Right of this note and call outs provided on construction plan sheets.

8. Site subsurface investigation encountered soft soils within existing subgrade. If such soils are encountered during excavation subgrade stabilization may be required consisting of a layer of geotextile and/or geogrid in conjunction with up to 30-inches of granular fill (pit run or equivalent). Project's geotechnical engineer shall be contacted to provide specific recommendations for subgrade stabilization based upon the actual subgrade conditions during construction.

UTILITIES AND AGENCIES

CITY UTILITIES DIRECTOR	RANDI KIM	244-1429
CITY OF GRAND JUNCTION PUBLIC WORKS	TRENT PRALL	256-4047
CITY OF GJ DEVELOPMENT INSPECTOR	MARK BARSLUND	201-1362
MESA COUNTY STORMWATER	JOSH MARTINEZ	773-4762
UTE WATER	JIM DAUGHERTY	242-7491
GRAND VALLEY IRRIGATION	PHIL BERTRAND	242-2762
XCEL ENERGY	JOHN SALAZAR	244-2681
CENTURY LINK	CHRIS JOHNSON	244-4333
SPECTRUM	JOHN VALDEZ	245-8750

WATER LINE CONSTRUCTION

1. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL BACKFLOW PREVENTION EQUIPMENT AND ABOVE GROUND ENCLOSURES. Double Check Detector Assembly shall be "Watts" Series L709DCDA assemblies or FEBCO Masterseries 876VST (N-Pattern), or Ute Water Approved equal.

2. Above Ground Enclosures shall be as manufactured by Aqua Shield or WATTS or approved equal and be aluminum, insulated with freeze protection, heated, with service access and mounted on a 4" minimum thick concrete slab. Aqua Shield #NBFP8 or Watts Model # WB-N6 or Ute Water approved Equal

3. All water line construction shall be constructed in accordance with the Ute Water District Standards and Specifications.

4. Contractor shall notify the Ute Water Conservancy 48 hours prior to the beginning of construction.

5. All trenches shall be compacted to 95% within 2% of optimum moisture content, as determined by AASHTO T-99. Contractor shall be required to perform all necessary compaction tests through a certified soils lab.

6. Minimum cover required over top of new waterlines is 4'-6".

7. All water mains to be DR-18 PVC, Class 150 conforming to AWWA C-900.

8. Ductile Iron fittings to conform to AWWA C-110.

9. Fire Hydrants shall conform to AWWA C-502, Mueller Super Centurian or Kennedy Guardian.

10. All materials labor and equipment required for testing and disinfection of water lines shall be furnished by Contractor. Disinfection of water lines shall conform to AWWA C-651-86 or latest revision thereof. No separate pay.

11. All pipe bends/angle points, both horizontal and vertical, as called for on the plans are to be thrust blocked per Ute Water Conservancy District details and Technical Specifications.

12. Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for water line trench backfill unless otherwise approved by the Engineer.

13. All Ute Water Mains are to be bedded per City of Grand Junction Standards.

14. All customer water service lines 2" or less shall be 200 psi rated "Pure Core" Blue HDPE, or approved equal.

STORM SEWER CONSTRUCTION NOTES

1. All storm sewer line construction shall be in accordance with the City of Grand Junction Standards and Specifications.

2. All Reinforced Concrete storm sewer pipe shall conform to ASTM Standard Specifications, C-76, Class III unless otherwise noted.

3. All polyvinyl chloride (PVC) pipe and fittings shall conform to ASTM Standard Specifications, D3034 and F679, SDR-35 unless otherwise noted.

4. All High Density Polyethylene (HDPE) pipe and fittings shall be smooth bore and shall conform to the following:
   12 inch to 36 inch shall meet AASHTO M294
   42 inch to 48 inch shall meet AASHTO MP6
   All HDPE pipe up to 30" shall be backfilled to springline with Class-6.

FUGITIVE DUST CONTROL PLAN

1. Before stripping of the site preparation for overlot grading, the surface is to be pre-wet to control dust.

2. Any stockpiles of stripping materials are to be periodically sprayed with water or a crusting agent to stabilize potentially wind blown material.

3. Haul road both into and around the site are to be sprayed as needed to suppress dust.

4. The Storm Water Management Plan and permit shall be obtained and kept onsite before starting any construction work. Gravel pads are to be constructed at the entrances to the site to help in removing mud from the wheels of haulage trucks before they enter onto City streets.

5. Trucks hauling import fill are to be tarped to aid in the control of airborne dust.

SANITARY SEWER CONSTRUCTION NOTES

1. All materials and workmanship shall comply to the Standards and Specifications of the City of Grand Junction. The City of Grand Junction reserves the right to accept or reject any materials and or workmanship that does not conform.

2. The Contractor shall have one signed copy of plans and a copy of the City of Grand Junction Standards and Specifications at the job site at all times.

3. All sanitary sewer pipe shall be PVC SDR-35 (ASTM 3034) unless otherwise specified.

4. All sewer lines to be laid to grade utilizing a "pipe laser".

5. All connections to the new sewer lines shall be accomplished with full body wyes or tees. Tapping saddles will not be allowed, except as noted.

6. All trenches shall be compacted to 95% within 2% of optimum moisture content, as determined AASHTO T-99.

7. A minimum of 10 ft. of separation shall be maintained at all times between the waterline and sewer line except at specified crossings.

8. The contractor is responsible for all required sewer line testing to be completed in accordance with the City of Grand Junction Standards and Specifications. Final testing to be accomplished only after all other infrastructure has been installed. This includes waterlines, gas lines, electric lines, etc. Testing will be performed after all compaction of street subgrade and prior to street paving. Final lamping will also be accomplished after paving is completed to insure that the line is clean. These tests will be the basis for issuing the initial acceptance of the sewer line extension.

9. Manholes shall be constructed as shown on the City of Grand Junction Standard Sanitary Sewer Detail sheets SS-02 of SS-03 as appropriate.

10. Water stop gaskets and clamp assemblies are to be furnished and installed at all connections to manholes. No separate pay.

11. Metal grade rings are NOT to be used on tip of manhole rings to adjust to finish pavement elevations. All adjustments to finish grade on new manholes shall be made using concrete grade rings and grout as shown on the standard details.

12. Where sanitary sewers cross under a water line with less than 18 inches of vertical separation, and in all cases where the sanitary sewer crosses over the waterline at any depth, provide total concrete encasement of pipe for a length of 10 feet to either side of the waterline.

13. Only materials on which a proctor test can be performed and accurate nuclear density tests can be run are approved for sewer line trench backfill unless otherwise approved by the Engineer.

14. To inhibit the movement of ground water through sewer bedding and haunching material, clay cutoff wall of native material are to be constructed approximately 10 feet upstream from each manhole and shown on sanitary sewer plan and profiles.

15. Notify the City of Grand Junction 48 hours prior to the construction of the sanitary sewer facilities.

16. The contractor shall obtain a City of Grand Junction Street Cut Permit for all work within existing City right-of-way prior to construction.

Automobile Parking Areas
EDLA = 5, Structural Number = 2.75

ALTERNATIVE	PAVEMENT SECTION (Inches)				
	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL
Full Depth HMA	7.0				7.0
A	3.0	10.0			13.0
B	4.0	7.0			11.0
C	3.0	6.0	6.0		15.0
Rigid Pavement		6.0		6.0	12.0

Truck Traffic Areas
EDLA = 30, Structural Number = 3.70

ALTERNATIVE	PAVEMENT SECTION (Inches)				
	Hot-Mix Asphalt Pavement	CDOT Class 6 Base Course	CDOT Class 3 Subbase Course	Concrete Pavement	TOTAL
Full Depth HMA	9.0				9.0
A	3.0	17.0			20.0
B	4.0	14.0			18.0
C	3.0	6.0	16.0		25.0
Rigid Pavement		6.0		8.0	14.0

LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING BUILDING
- PROPOSED BUILDING
- EXISTING CURB/GUTTER
- PROPOSED CURB/GUTTER
- PROPOSED SPILL CURB/GUTTER
- PROPOSED TRANSITION CURB/GUTTER
- EXISTING RETAINING WALL
- EXISTING 1-FT CONTOUR
- EXISTING 5-FT CONTOUR
- PROPOSED 1-FT CONTOUR
- PROPOSED 5-FT CONTOUR
- EXISTING ASPHALT
- PROPOSED ASPHALT
- PROPOSED HEAVY DUTY ASPHALT
- EXISTING CONCRETE
- PROPOSED CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER CLEANOUT
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER INLET
- PROPOSED STORM SEWER INLET
- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED INLINE DRAIN
- EXISTING 8" WATER MAIN
- PROPOSED 2" DOMESTIC SERVICE
- PROPOSED 4" FIRE LINE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING WATER METER
- PROPOSED WATER METER
- PROPOSED METER/BACKFLOW VAULT
- PROPOSED IRRIGATION MANHOLE
- PROPOSED FENCE
- EXISTING FENCE
- PROPOSED TRAFFIC FLOW
- GRADE BREAK
- ROOF DRAIN (RD)
- STREET LIGHT POLE
- FIRE DEPARTMENT CONNETION
- PARKING LOT LIGHT
- PROPOSED BUILDING LIGHT
- POWER POLE
- FL FLOWLINE
- EOP EDGE OF PAVEMENT
- TOC TOP OF CONCRETE
- TOW TOP OF WALL
- BOW BOTTOM OF WALL
- TBW TOP BACK OF WALK
- TC TOP OF CURB
- BOC BACK OF CURB
- LS LANDSCAPE AREA
- UTILITY PEDESTALS

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81501

GENERAL CONSTRUCTION NOTES

FOR CONSTRUCTION

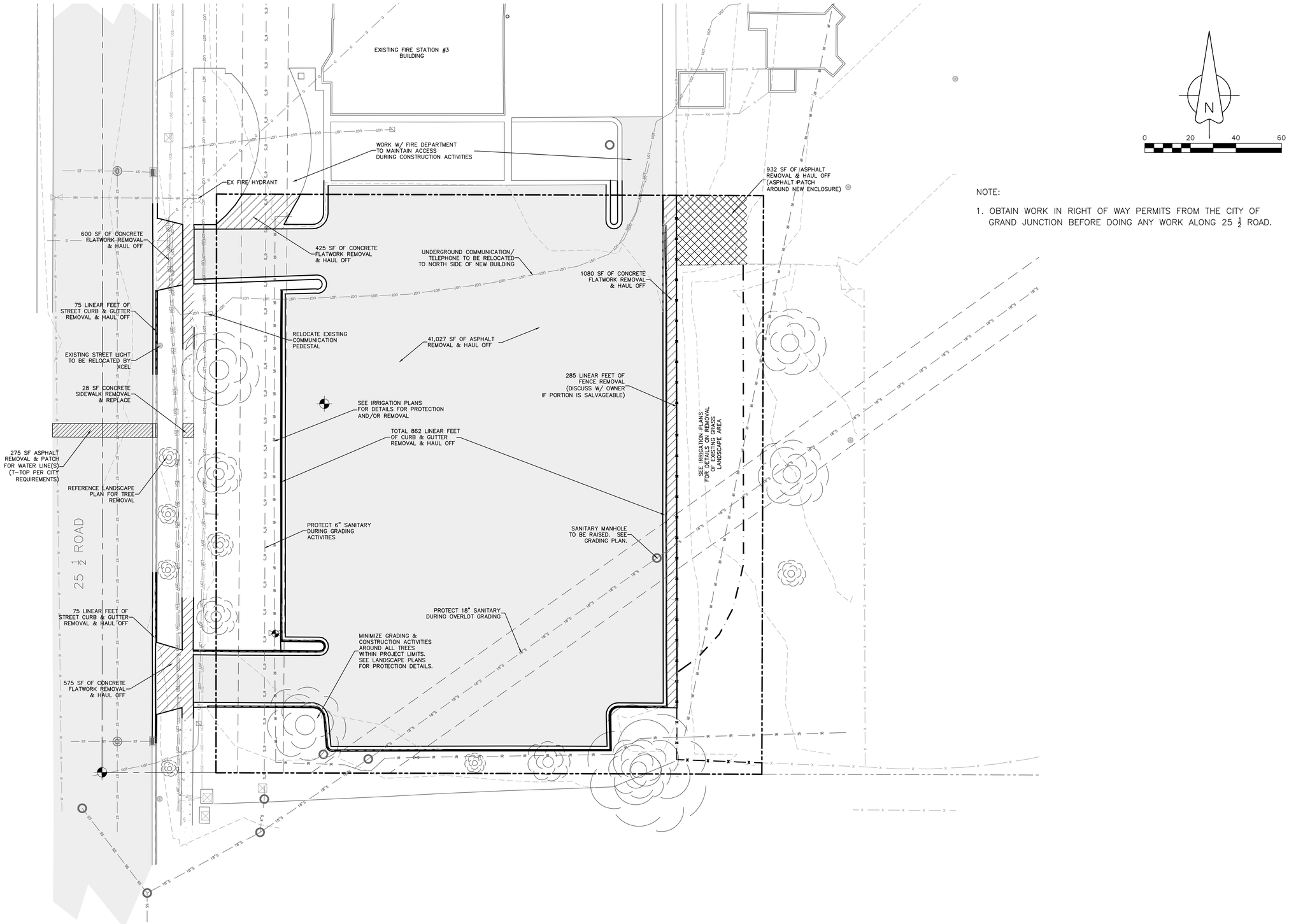
REV.	DESC.	DATE:

DATE: 02-25-21

PROJECT #: 2072

SHEET #:

C1-0



NOTE:

1. OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG 25 $\frac{1}{2}$ ROAD.

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81501

DEMOLITION PLAN

FOR CONSTRUCTION

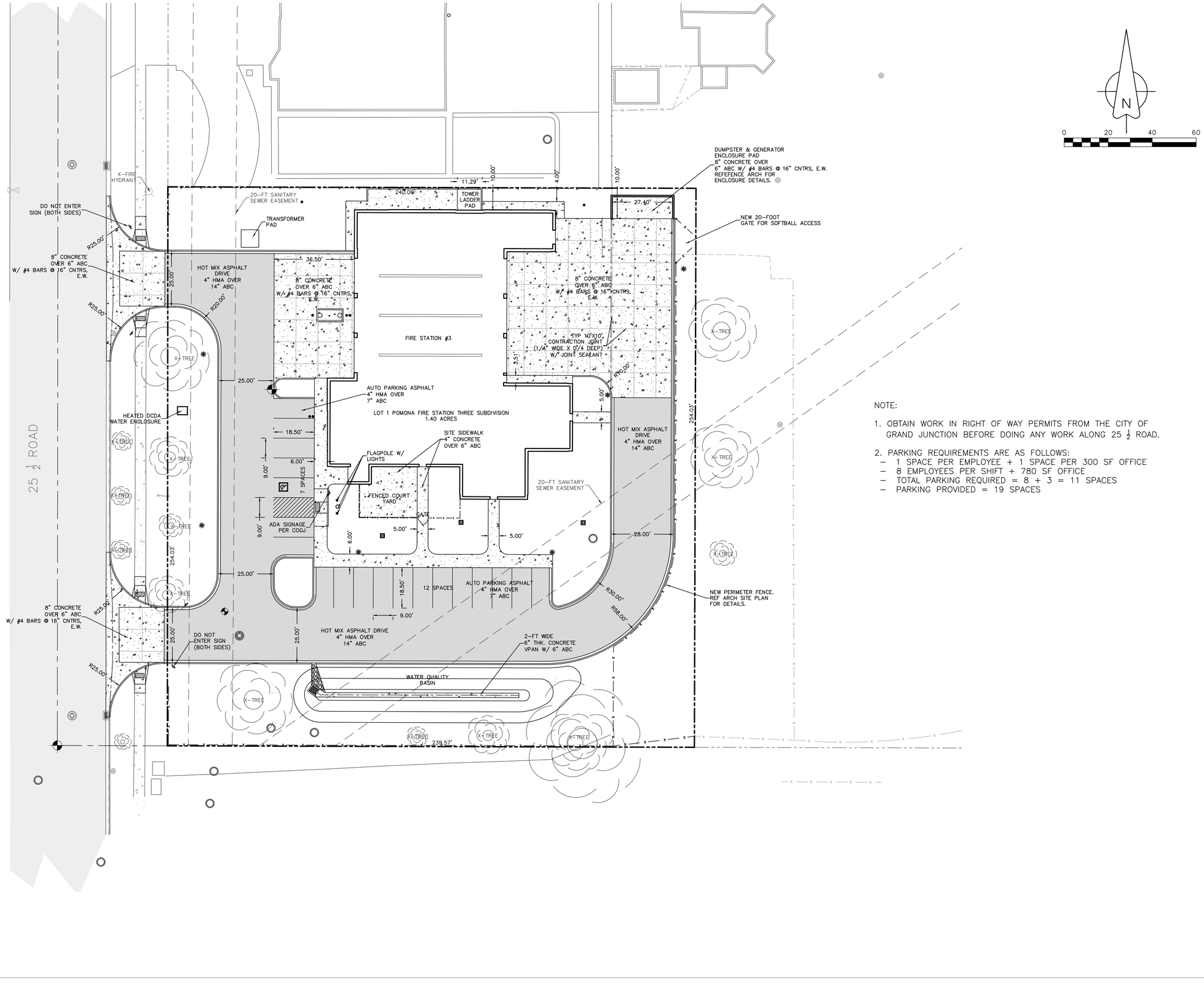
REV.	DESC.	DATE:

DATE: 02-25-21

PROJECT #: 2072

SHEET #:

C2-0



NOTE:

1. OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG 25 ½ ROAD.

2. PARKING REQUIREMENTS ARE AS FOLLOWS:
   - 1 SPACE PER EMPLOYEE + 1 SPACE PER 300 SF OFFICE
   - 8 EMPLOYEES PER SHIFT + 780 SF OFFICE
   - TOTAL PARKING REQUIRED = 8 + 3 = 11 SPACES
   - PARKING PROVIDED = 19 SPACES

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SITE PLAN

FOR CONSTRUCTION

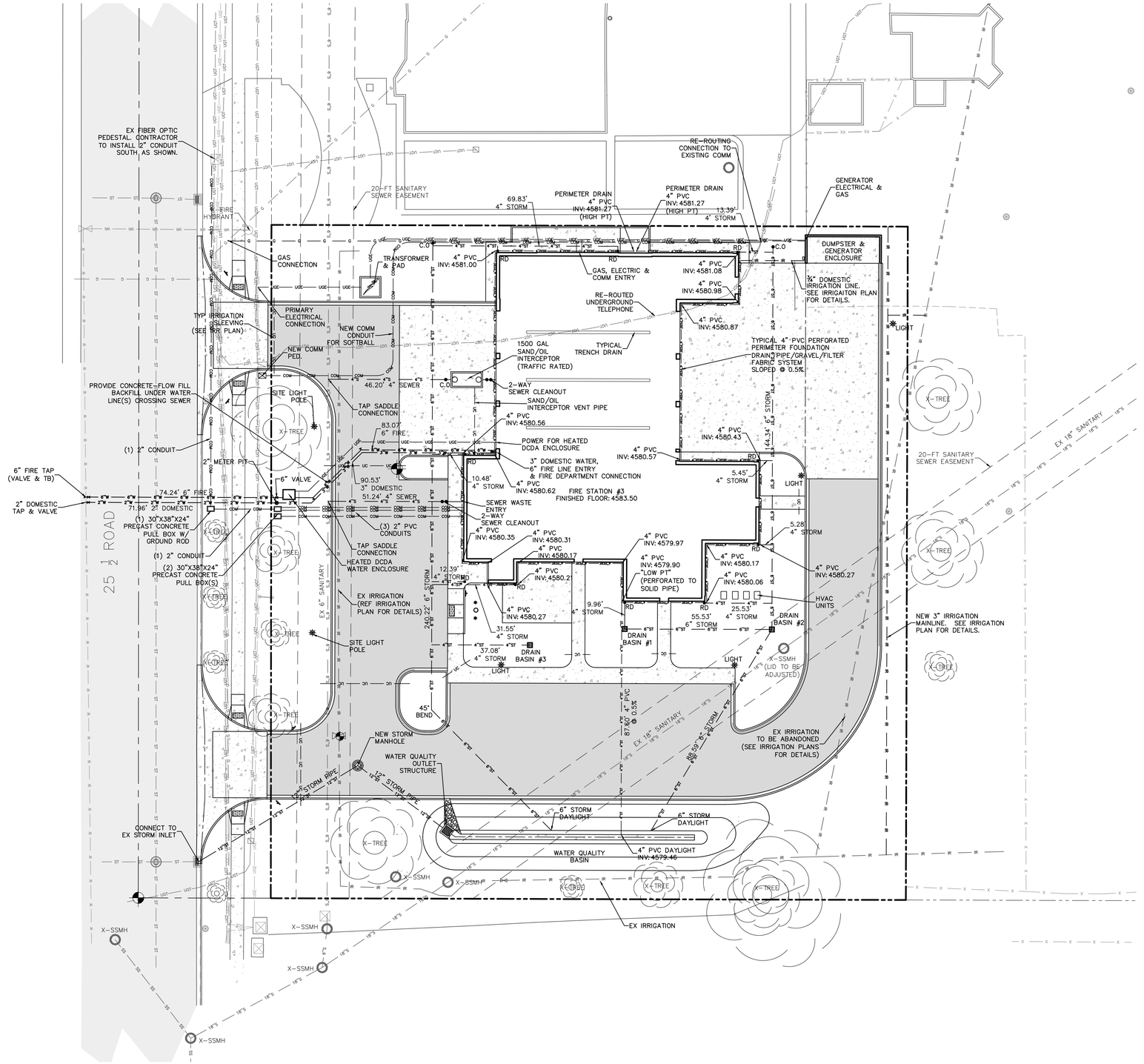
REV.	DESC.	DATE:

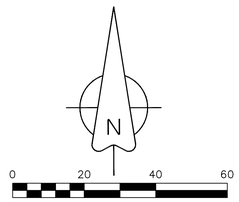
DATE: 02-25-21

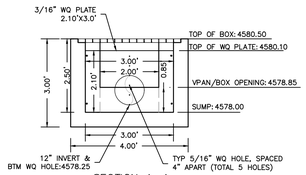
PROJECT #: 2072

SHEET #:

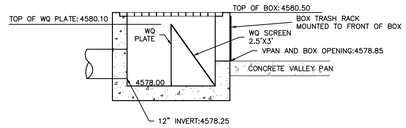
C3-0



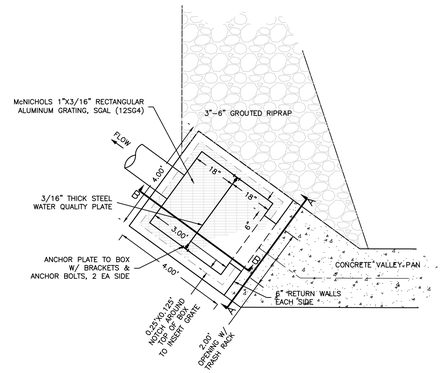




SECTION A–A



SECTION B–B



WATER QUALITY OUTLET STRUCTURE

GENERAL NOTES:

1. ALL EXISTING UTILITY INFORMATION DEPICTED ON THESE PLANS IS A QUALITY LEVEL "C", UNLESS OTHERWISE NOTED.
2. OBTAIN WORK IN RIGHT OF WAY PERMITS FROM THE CITY OF GRAND JUNCTION BEFORE DOING ANY WORK ALONG 25 ½ ROAD.
3. STORM DRAINS ARE TO BE 12" "NYLOPLAST" DRAIN BASINS OR EQUAL WITH A STANDARD 12" SQUARE PEDESTRIAN GRATE.

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GRAND JUNCTION FIRE DEPARTMENT
FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81501

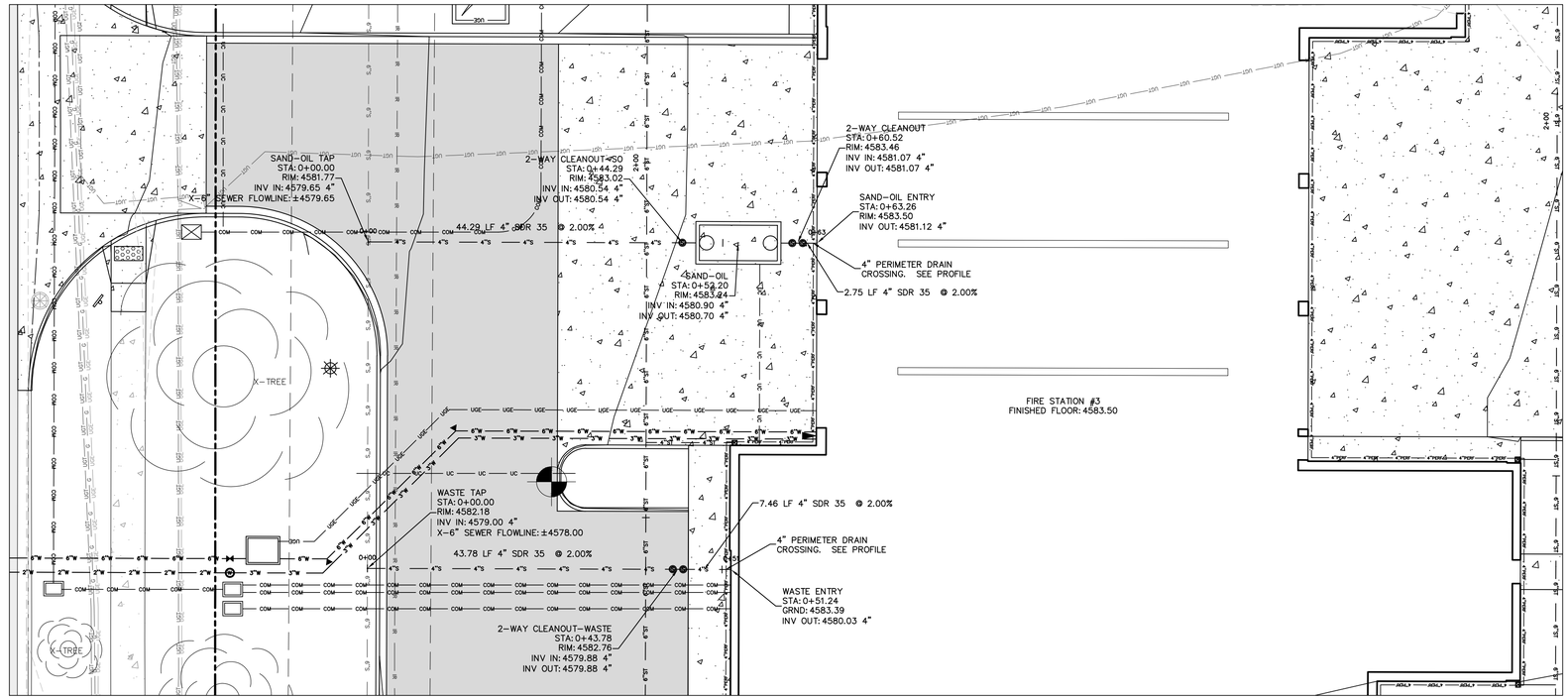
UTILITY COMPOSITE

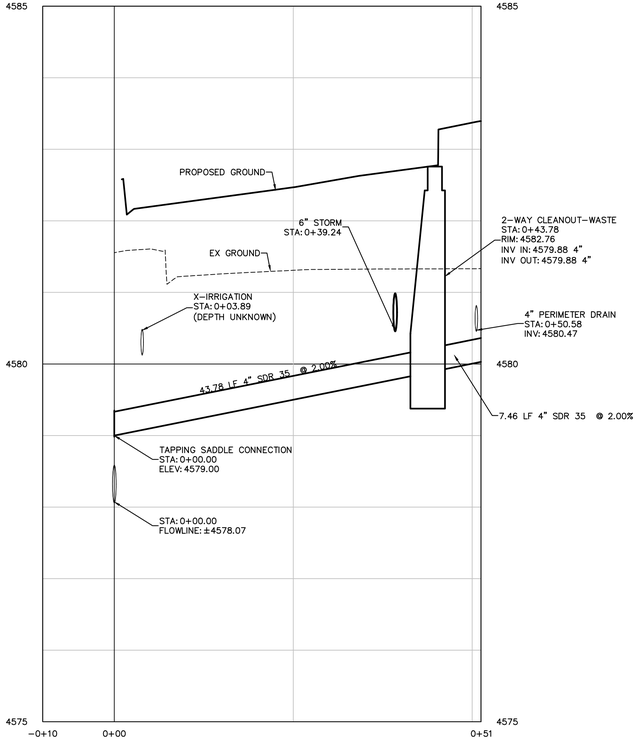
FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02-25-21
PROJECT #: 2072
SHEET #:

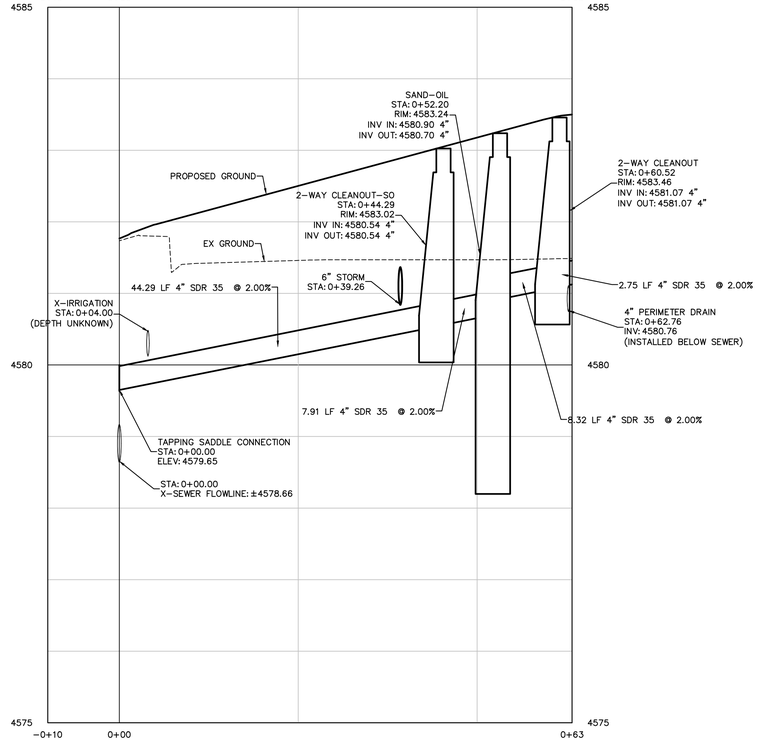
C4-0





4 INCH SEWER WASTE
HORIZONTAL: 1"=10', VERTICAL: 1"=1'

4-INCH WASTE



4 INCH SEWER SAND-OIL
HORIZONTAL: 1"=10', VERTICAL: 1"=1'

4-INCH SAND / OIL

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GRAND JUNCTION FIRE DEPARTMENT
FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81501

SANITARY SEWER PLAN & PROFILES

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02-25-21
PROJECT #: 2072
SHEET #:
C4-1

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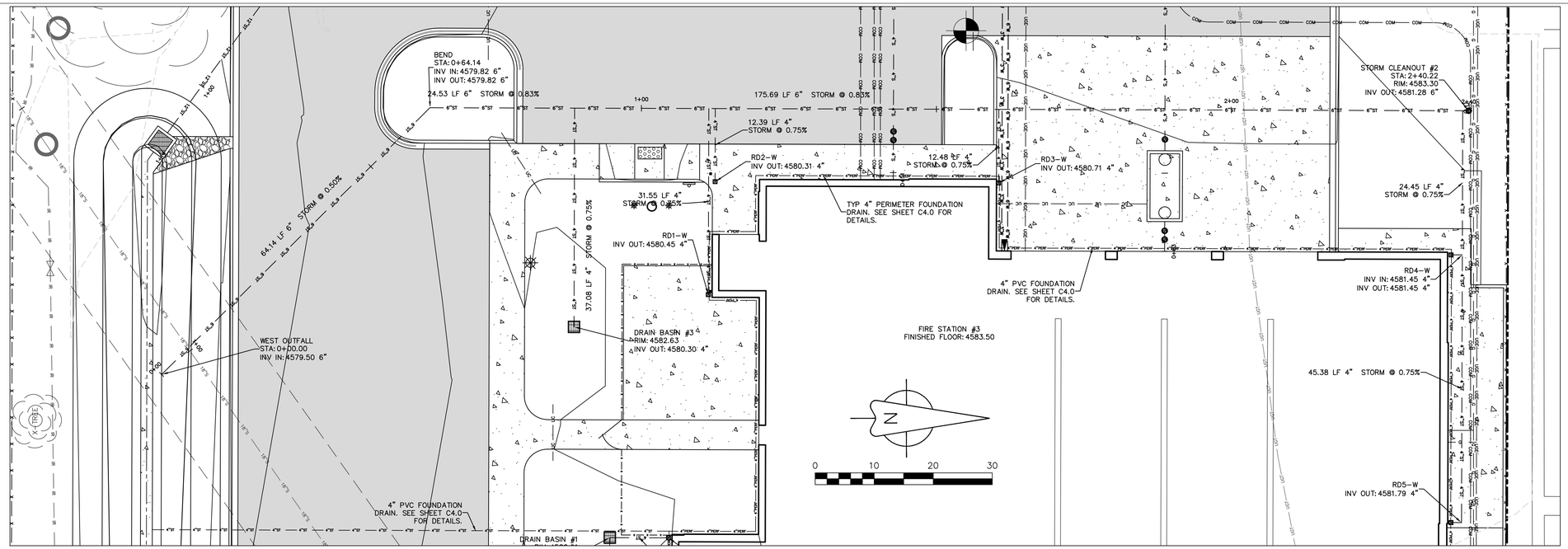

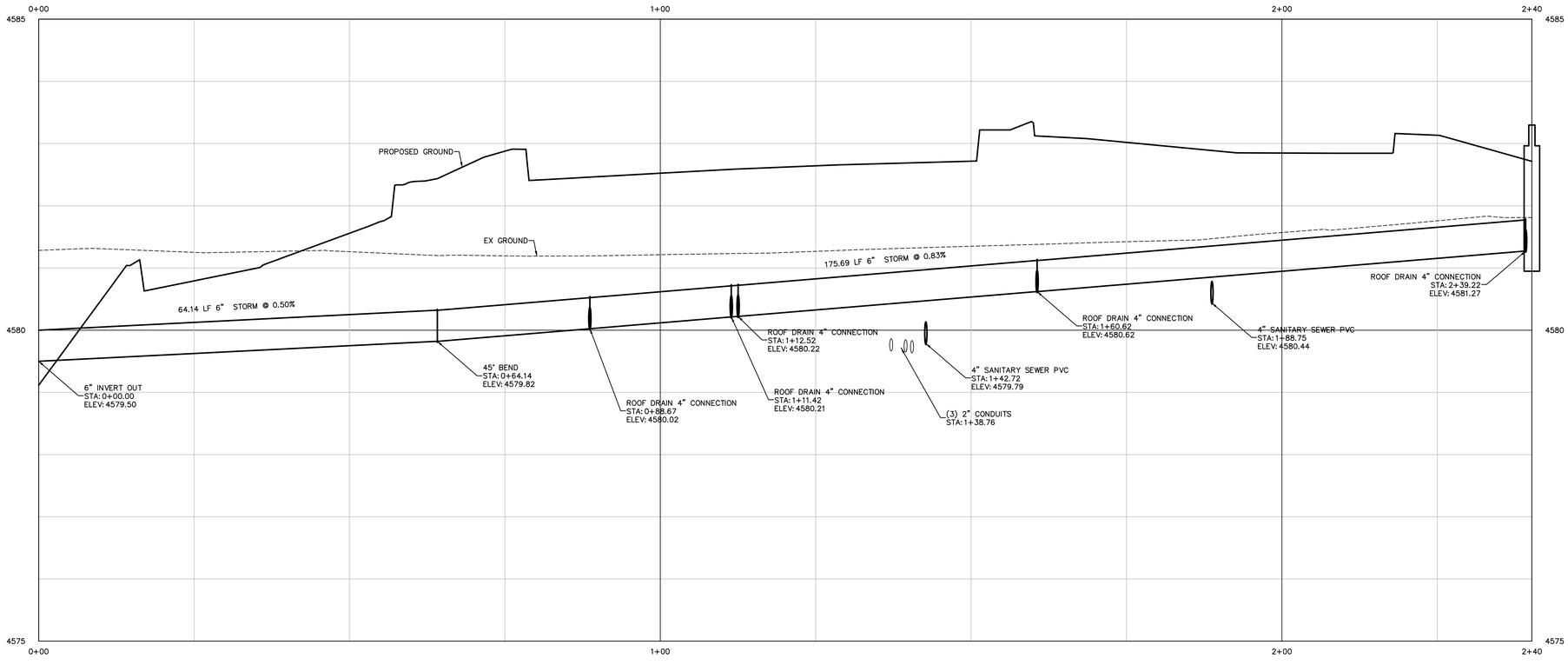

STORM SEWER – WEST
HORIZONTAL: 1"=10', VERTICAL: 1"=1'

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GRAND JUNCTION FIRE DEPARTMENT
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STORM SEWER PLAN & PROFILES - WEST

FOR CONSTRUCTION

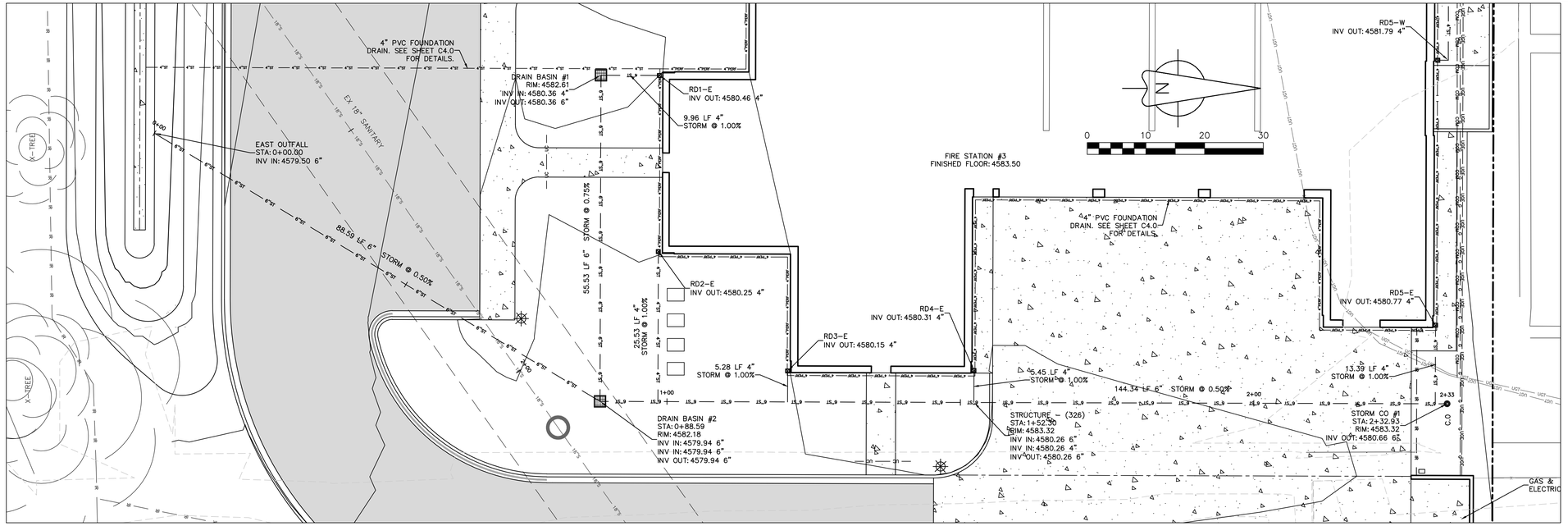
REV.	DESC.	DATE:

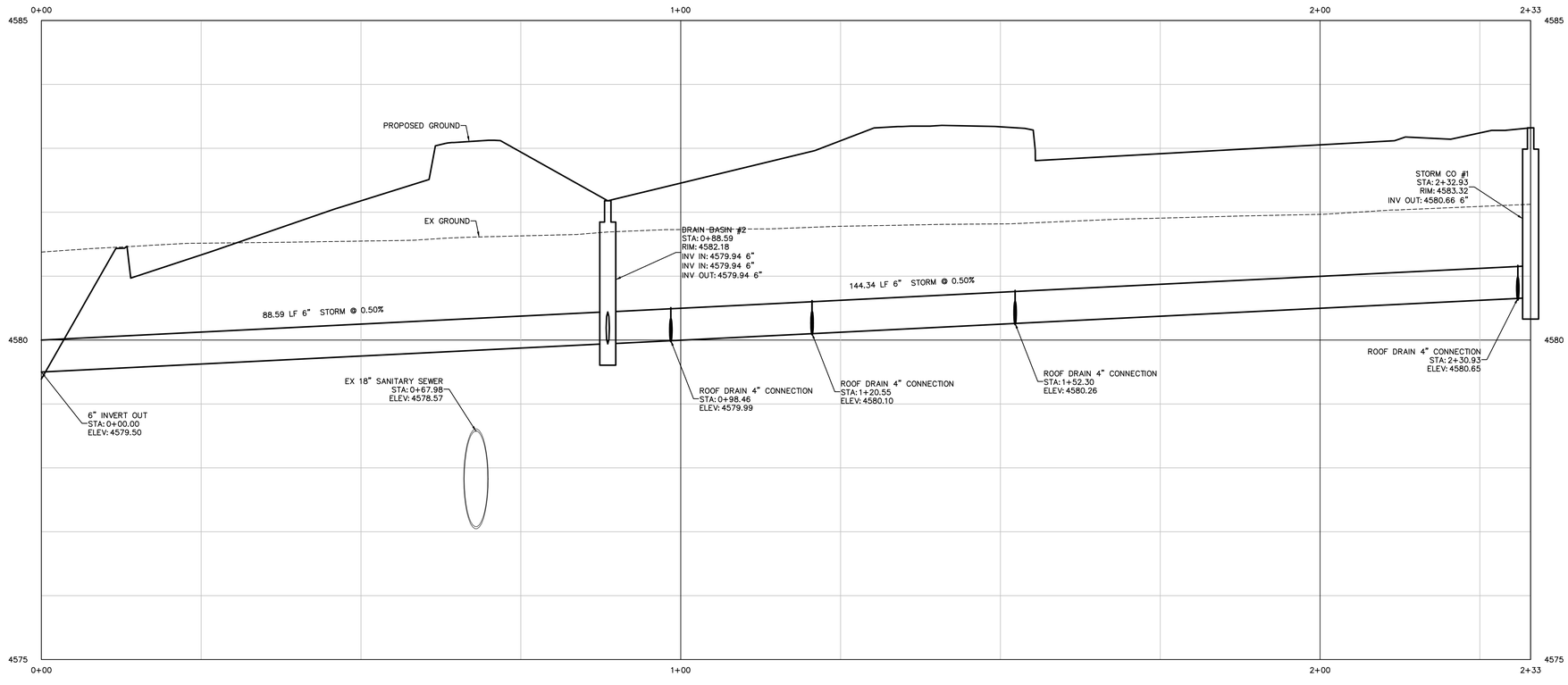
DATE: 02-25-21

PROJECT #: 2072

SHEET #:

C4-2





STORM SEWER – EAST
HORIZONTAL: 1"=10', VERTICAL: 1"=1'

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GRAND JUNCTION FIRE DEPARTMENT
FIRE STATION #3

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STORM SEWER PLAN & PROFILES - EAST

FOR CONSTRUCTION

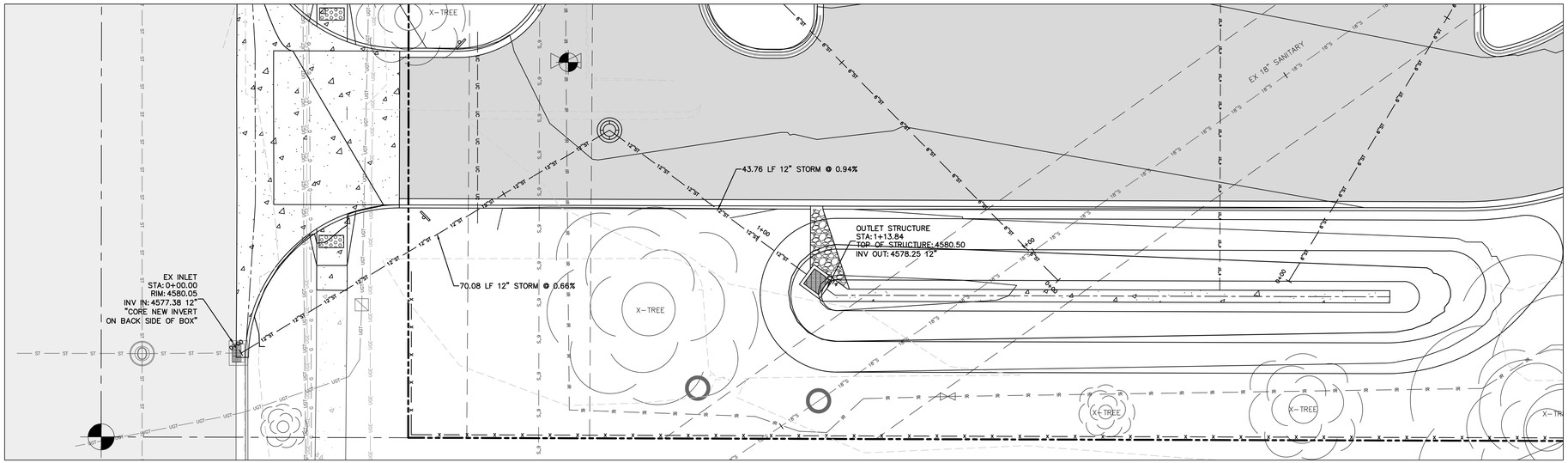
REV.	DESC.	DATE:

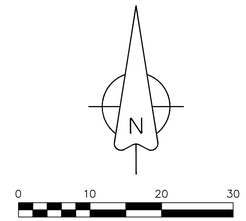
DATE: 02-25-21

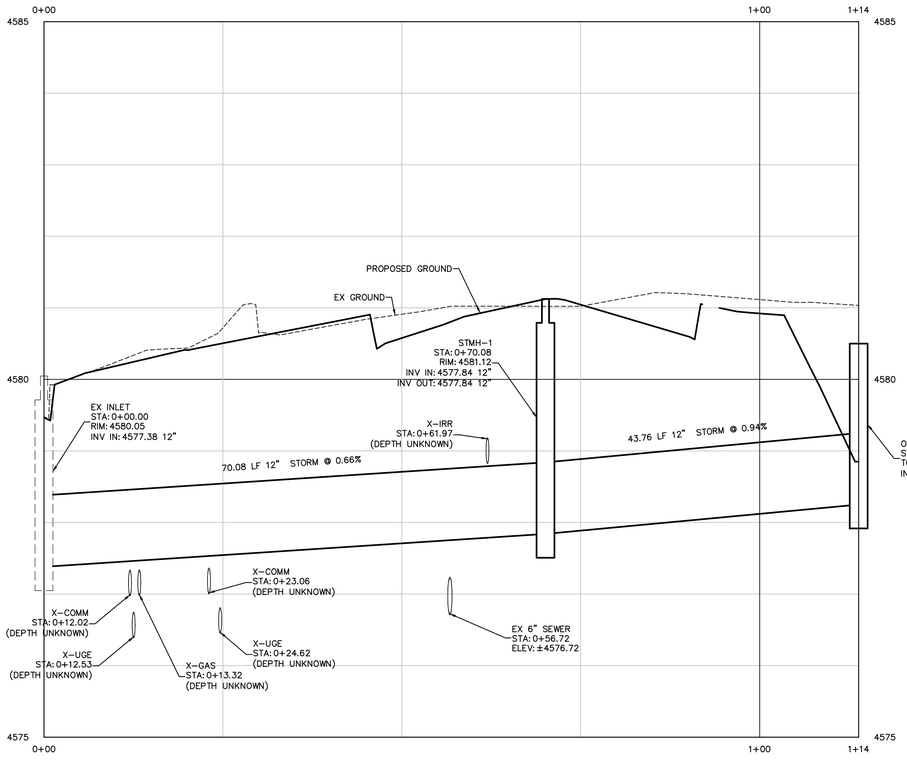
PROJECT #: 2072

SHEET #:

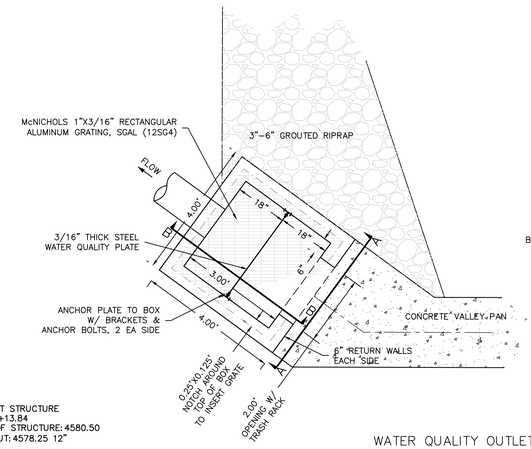
C4-3



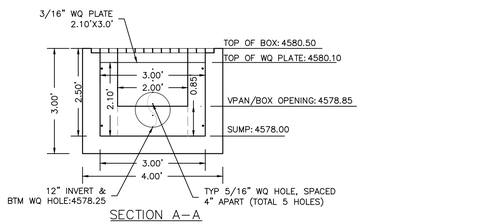




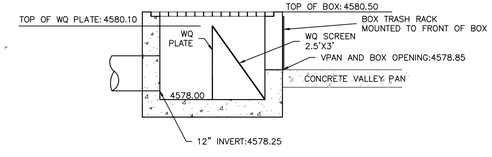
WATER QUALITY OUTFALL
HORIZONTAL: 1"=10', VERTICAL: 1"=1'



WATER QUALITY OUTLET STRUCTURE



SECTION A-A



SECTION B-B

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GRAND JUNCTION FIRE DEPARTMENT
FIRE STATION #3

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STORM SEWER PLAN & PROFILES - OUTFALL

FOR CONSTRUCTION

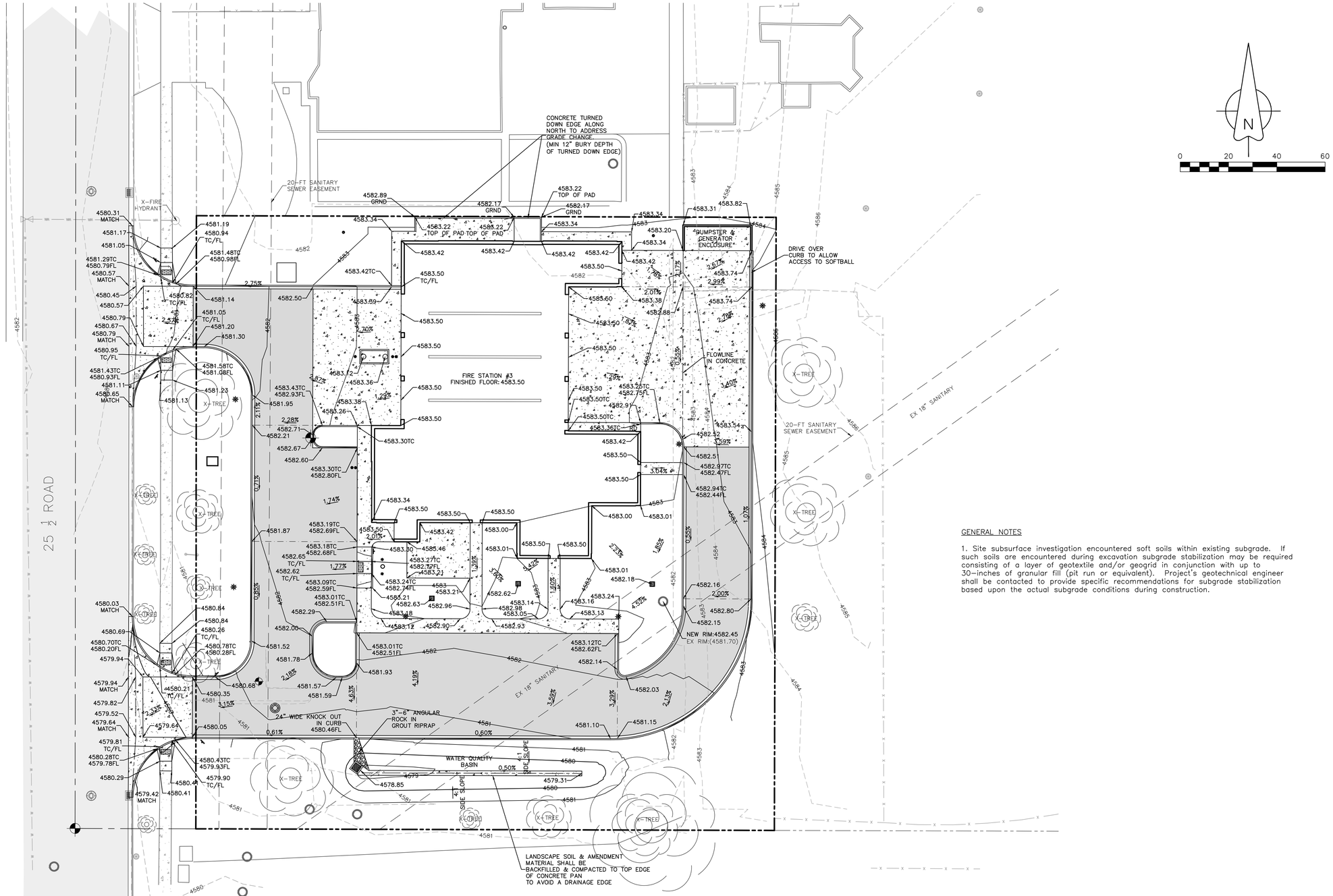
REV.	DESC.	DATE:

DATE: 02-25-21

PROJECT #: 2072

SHEET #:

C4-4



GENERAL NOTES

1. Site subsurface investigation encountered soft soils within existing subgrade. If such soils are encountered during excavation subgrade stabilization may be required consisting of a layer of geotextile and/or geogrid in conjunction with up to 30-inches of granular fill (pit run or equivalent). Project's geotechnical engineer shall be contacted to provide specific recommendations for subgrade stabilization based upon the actual subgrade conditions during construction.

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81501

GRADING PLAN

FOR CONSTRUCTION

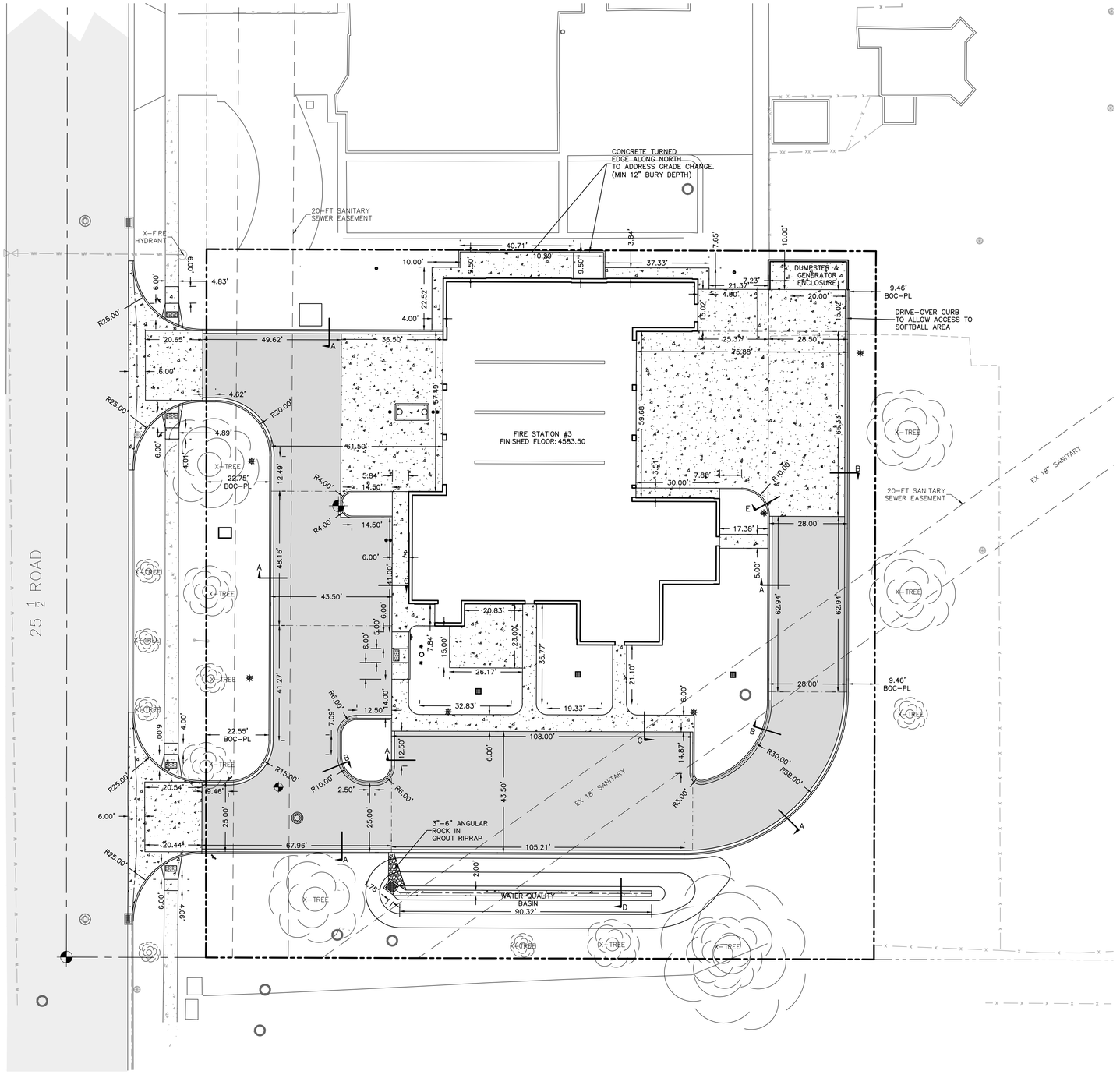
REV.	DESC.	DATE:

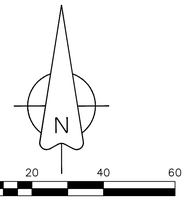
DATE: 02-25-21

PROJECT #: 2072

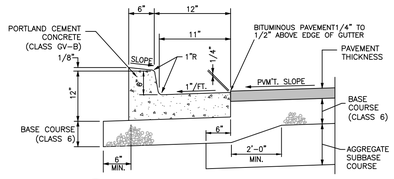
SHEET #:

C5-0

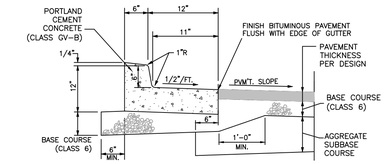




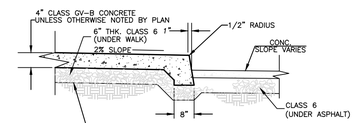
TYPICAL CONCRETE SECTIONS



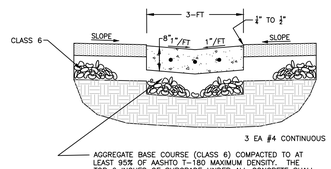
A ***STANDARD 1'-6" CURB AND GUTTER***
NOT TO SCALE



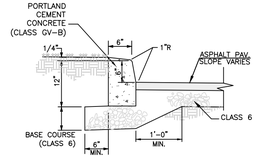
B ***1'-6" SPILL CURB AND GUTTER***
NOT TO SCALE



C ***SIDEWALK AND PAVEMENT SECTION***
NOT TO SCALE



D ***3' WIDE VALLEY PAN DETAIL***
NOT TO SCALE



E ***BARRIER CURB***
NOT TO SCALE

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GRAND JUNCTION FIRE DEPARTMENT
-FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81501

HORIZONTAL CONTROL PLAN

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02-25-21
PROJECT #: 2072
SHEET #:

C6-0

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(CSR) LANDSCAPE REQUIREMENTS

TOTAL IMPROVED AREA: 60,920 SQ. FT.

Landscape Requirements (CSR):
One tree per 2,500 square feet of improved area, with no more than 20 percent of the total being ornamental trees or evergreens. One five-gallon shrub per 300 square feet of improved area.

Location of Landscaping on Site:
Buffer, parking lot, street frontage perimeter, foundation plantings and public right-of-way.

Landscape Calculations:
1 TREE REQUIRED FOR EVERY 2,500 SQ.FT. OF IMPROVED AREA.
IMPROVED AREA = 60,920 SQ. FT.
(60,920/ 2,500) = ROUND TO 25
TREES REQUIRED = 25 or 50 inches of caliper
- Trees exceed the minimum caliper requirement by one inch or more.

TREES PROVIDED:
9 Existing Trees (118 inches of caliper)
6 New Trees (12 inches of caliper)

1 SHRUB REQUIRED FOR EVERY 300 SQ.FT. OF IMPROVED AREA.
(60,920/ 300) = ROUND TO 203.
SHRUBS REQUIRE = 203
- Twenty-five percent of the required shrubs may be converted to turf based on one five-gallon shrub per 50 square feet of turf.

TURF SUBSTITUTES FOR 51 SHRUBS. 25% OF 203= 51 SHRUBS (50 SQ. FT. TURF X 51= 2,550 SQ. FT. TURF MIN.)
- Ten percent of the required shrubs may be converted to perennials and/or ground covers at a ratio of three one-gallon perennials and/or ground covers for one five-gallon shrub

PERENNIAL SUBSTITUTES FOR 11 SHRUBS. (33 PERENNIALS/ 3 = 11 SHRUBS)
- Additional trees or larger trees can be exchanged on a per-caliper-inch basis with three shrubs equaling one caliper inch. Credit for using larger trees would be based on a direct exchange of caliper inches.

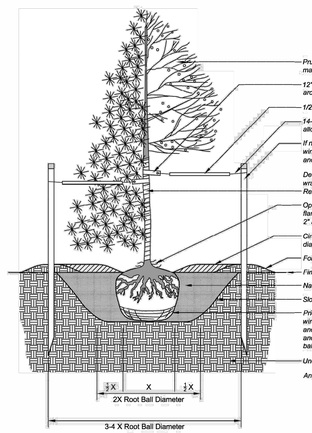
TREE CALIPER SUBSTITUTES FOR 87 SHRUBS. (29 INCHES OF LARGER TREE CALIPER = 111 SHRUBS)

SHRUBS PROVIDED:
FIVE GALLON SHRUBS PROVIDED = 45
ONE GALLON PERENNIALS = 33
TURF AREA = 31,470 SQ. FT.
80 INCHES OF LARGER TREE CALIPER

PROPOSED PLANT LIST

No.	Sym	Common Name/ Biological Name	Planting Size/ Remarks	Mature Size
Deciduous Trees:				
4	HCT	Cockspur Thornless Hawthorn/ Crataegus crus-galli 'Inermis'	2" cal./ B&B	20' Ht. & 15' Spd.
2	KCT	Kentucky Coffeetree/ Gymnocladus/ dioicus	2" cal./ B&B	60' Ht. & 50' Spd.
Deciduous Shrubs:				
2	ATR	Althea- Rose of Sharon / Hibiscus syriacus	18" -24" Spread/ #5	10' Ht. & 5' Spd.
5	BMS	Blue Mist Spirea/ Caryopteris x clandonensis	18" -24" Spread/ #5	3' Ht. & 3' Spd.
5	MKL	Miss Kim Lilac/ Syringa patula 'Miss Kim'	18"-24" Spread/ #5	5' Ht. & 5' Spd.
3	NMP	New Mexico Privet/ Forestiera neomexicana	18"-24" Spread/ #5	8' Ht. & 6' Spd.
4	LSB	Lilla Smoke Bush/ Cotinus coggygria 'Lilla'	18"-24" Spread/ #5	4' Ht. & 4' Spd.
5	DBB	Dwarf Burning Bush/ Euonymus alatus 'Compacta'	18"-24" Spread/ #5	4' Ht. & 4' Spd.
3	RSA	Russian Sage/ Perovskia artiplicifolia	18"-24" Spread/ #5	4' Ht. & 4' Spd.
2	YFC	Yellow Flowering Currant/ Ribes aureum	18"-24" Spread/ #5	6' Ht. & 6' Spd.
Evergreen and Broadleaf Shrubs:				
12	GMD	Green Mound Juniper/ Juniperus procumbens Green Mound'	18"-24" Spread/ #5	1' Ht. & 6' Spd.
4	ACB	Arizona Cypress/ Cuppressus arizonica 'Blue Ice'	5' Tall/ #20	15' Ht. & 8' Spd.
Grasses/ Perennials/ Ground Cover:				
6	PHM	Panicum' Heavy Metal'	#1	3" Ht. & 2" Spd.
6	MRU	Muhlenbergia reverchonii 'Undahnted'	#1	2' Ht. & 2' Spd.
7	DAY	Daylily/ Hemerocallis 'Crimson Pirate'	#1	24" Ht. & 24" Spd.
7	SDA	Autumn Joy Sedum/ Sedum spectabile 'Autumn Joy'	#1	24" Ht. & 24" Spd.
2	ELA	English Lavender/ Lavandula angustifolia 'Munstead'	#5	18" Ht. & 24" Spd.
7	APD	Aster Purple Dome/ Aster novae-angliae ' Purple Dome'	#1	18" Ht. & 18" Spd.
Bulbs				
20	ERE	Eremerus	Bulbs	
20	ALG	Allium 'Globemaster'	Bulbs	
300	CRO	Crocus	Bulbs	

*All plant totals on the plant list shall be verified with plant numbers on the landscape plans.



Trees planted upon park land, public property, or within the Public Right of Way (PRW) are subject to the following restrictions:

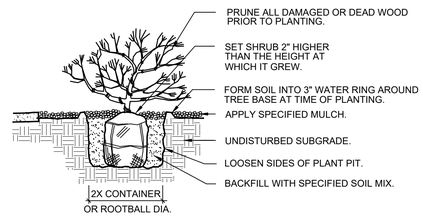
- Prior to digging, the Utility Notification Center of Colorado shall be contacted at 811 to locate underground utilities.
- A planting permit from the Grand Junction City Forester (GJCF) is required regardless of approved plans to ensure the City is available to inspect the planting of public trees.
- Tree planting shall not occur when daytime temperatures reach or exceed 90-degrees Fahrenheit, unless approved by GJCF.
- Only tree species approved by the GJCF shall be planted.
- Trees shall not be planted in tree lawns less than six feet wide unless authorized by the GJCF.
- Trees shall be centered in tree lawns and/or planting areas. Where sidewalks are not present, trees shall be located as designated by the GJCF.
- Unless authorized by the GJCF, trees shall be located:
  - Outside street intersection sight distance triangle, measured 30 (thirty) feet along the PRW in each direction from the corner.
  - Min. 10 (Ten) feet from alleys and driveways
  - Min. 20 (Twenty) feet from stop signs and curb ramps
  - Min. 25 (Twenty-five) feet from street lights
  - Min. 10 (Ten) feet from electric/gas/water lines, water meters/pits, and fire hydrants
  - Min. 15 (Fifteen) feet from small cell towers
- If overhead utility wires exist, only trees with an expected mature size that meet current clearance regulations may be planted.
- Tree spacing shall be based on projected mature canopy size and above restrictions, or as approved by the GJCF.
- All electric fixtures and utilities, including but not limited to outlets and lights, shall be located at outside perimeter of tree planting areas within hardscape. In tree lawns, fixtures shall be placed minimum 3 (three) feet radially from base of trunk.

When planting is completed, contact forestry@gjcity.org for final inspection.

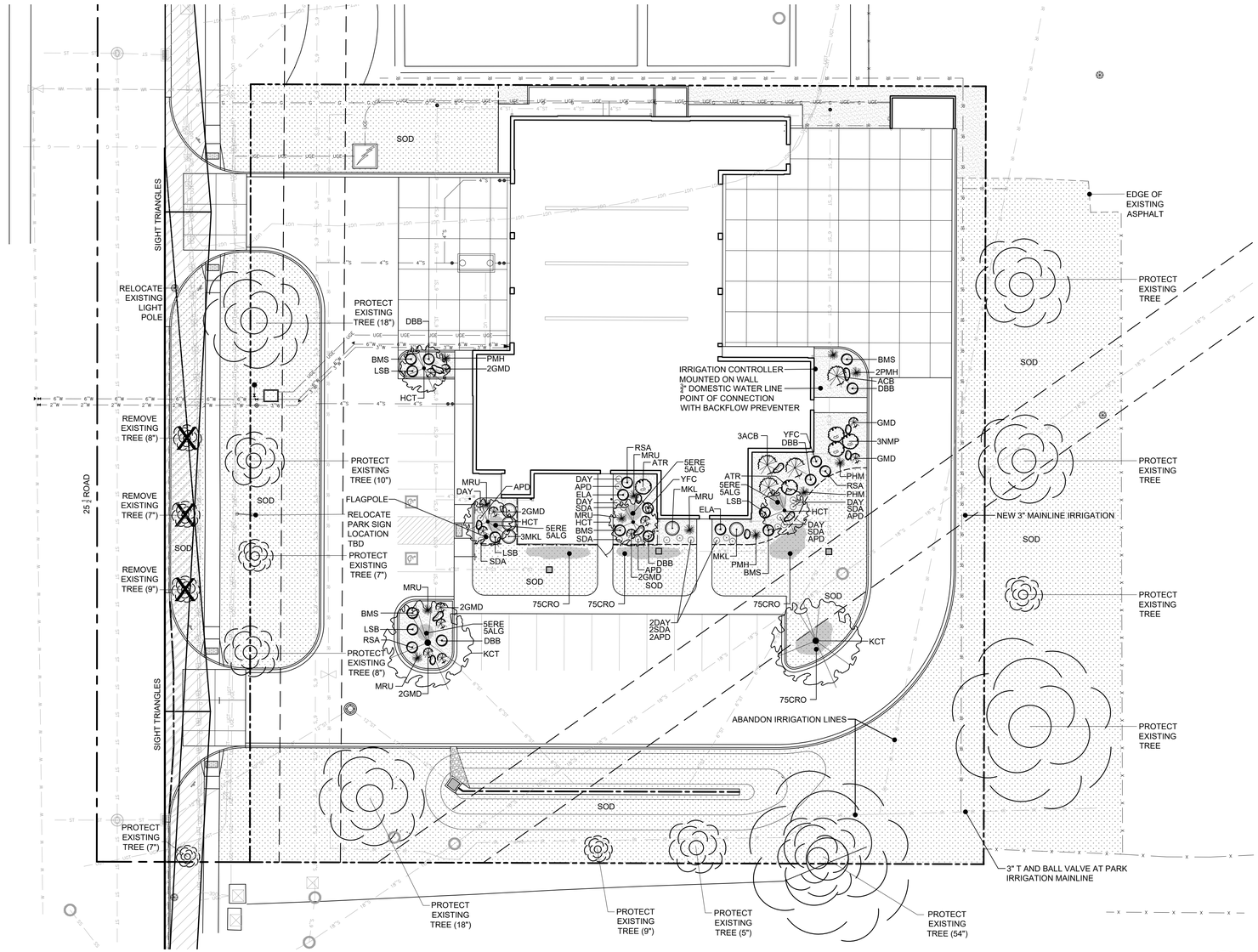
City of Grand Junction COLORADO	City of Grand Junction Office of the City Forester 2529 High Country Ct Grand Junction, CO 81501	**Tree Planting Detail -** **Public Right of Way, Park, and other Public Grounds**	**Detail:** GJCF-**PLANT1** **Effective: 01-12-2021**

LANDSCAPE AND IRRIGATION NOTES

1. PLANTING AREAS ARE TO HAVE 3" OF LANDSCAPE ROCK (¾" TAN GRANITE). ALL PLANT MATERIAL SHALL HAVE A PLANTING RING AT THE BASE OF EACH PLANT WITH 3" OF WESTERN RED CEDAR MULCH OVER LANDSCAPE FABRIC.
2. AN UNDERGROUND, PRESSURIZED IRRIGATION SYSTEM WILL BE PROVIDED FROM THE EXISTING 3" IRRIGATION MAINLINE AT THE PARK SYSTEM. A SECONDARY 3/4" DOMESTIC WATER LINE WILL BE INSTALLED TO A BACKFLOW PREVENTER FROM THE FIRE STATION FOR FUTURE USE. THE IRRIGATION CONTROLLER WILL BE LOCATED AT THE FIRE STATION. ALL PLANTING BEDS ARE TO BE IRRIGATED WITH AN AUTOMATIC DRIP SYSTEM AND ALL SOD AREAS ARE TO BE IRRIGATED WITH A POP-UP SPRAY SYSTEM. SEE IRRIGATION PLANS FOR ADDITIONAL INFORMATION.
3. METAL LANDSCAPE EDGING IS TO BE INSTALLED ALONG THE EDGE OF THE LANDSCAPE ROCK AREAS.
4. PLACE CROCUS BULBS INTO THE TURF ON THE SOUTH SIDE OF THE BUILDING AS SHOWN ON THE LANDSCAPE PLAN.
5. THE LANDSCAPE CONTRACTOR SHALL COLLECT SOILS SAMPLES AND RUN SOILS TESTING FOR THE PROPOSED PLANTING AREAS. ADD SOIL AMENDMENTS AND FERTILIZERS AS RECOMMENDED IN THE SOIL TESTING REPORT TO ENSURE A GOOD PLANTING MEDIUM. ANY IMPORTED PLANTING SOIL SHALL ALSO BE TESTED AND BE THREE PARTS SCREENED TOPSOIL AND ONE PART MANURE.



A Shrub Planting Detail
SCALE: NTS



1 LANDSCAPE PLAN
SCALE: 1"=20'-0"

0 20' 40'

NORTH

LANDSCAPE LEGEND

DECIDUOUS TREES
LARGE DECIDUOUS SHRUBS
SMALL DECIDUOUS SHRUBS
GRASSES
EVERGREEN SHRUBS
PERENNIALS
GRANITE LANDSCAPE BOULDERS
LANDSCAPE ROCK
METAL LANDSCAPE EDGING
SOD
BULBS

UTILITY NOTIFICATION CENTER OF COLORADO
CALL 811
LOCATION OF UTILITIES SHOWN HEREON WAS PROVIDED BY OTHERS. CONTRACTOR MUST VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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LANDSCAPE ARCHITECTURE AND LAND PLANNING
386 34 ¼ Road
Palisade, Colorado 81526 (970) 361-4345

GRAND JUNCTION
FIRE DEPARTMENT
FIRE STATION #3

580 25 ½ ROAD
GRAND JUNCTION, CO 81505

LANDSCAPE PLAN

FOR CONSTRUCTION

MITCHELL L REWOLD 378 REGISTERED Original Date of Licensure 02/15/2021 STATE OF COLORADO LICENSED LANDSCAPE ARCHITECT

REV.	DESC.	DATE:

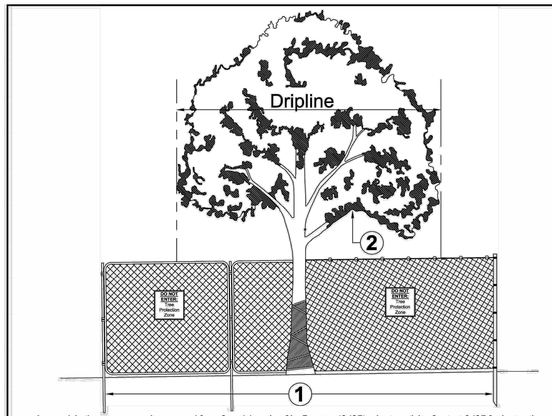
DATE: 02/15/2021
PROJECT #: 2072
SHEET #:
L1-0

CITY OF Grand Junction COLORADO
PARKS & RECREATION

Grand Junction City Forester (GJCF) Tree Protection Specifications

1. Existing trees to be preserved in public rights of way (ROW) or public places shall be protected per GJCF standards and practices. Tree protection shall be:
   A. Installed prior to commencement of demolition and/or construction activities
   B. Inspected and approved by GJCF staff
   C. Remain in place and as approved until Certificate of Occupancy or Substantial Completion and Final Acceptance is issued
2. Tree protection requirements:
   A. Tree Protection Zone (TPZ) shall be installed at the dripline, furthest extent of tree canopy, or is equal to eighteen inches radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5' above soil line), whichever is greater
      - Reduced TPZ areas must be approved by GJCF
   B. Install six foot (6') chain link fencing prior to commencement of project construction activities
      - With approval of GJCF, 4' orange construction fencing may be acceptable in place of chain link depending on potential impacts of activity
   C. GJCF staff shall inspect and approve boundaries of tree protection zone(s) prior to commencement of demolition or construction activities
   D. Once TPZ is in place, the following are not permitted within TPZ without prior written approval from GJCF:
      - Entrance and/or access
      - Moving, resizing, removing, or altering in any manner
      - Storage of materials/debris/equipment
      - Construction activities including but not limited to: rototilling, trenching, grading, installation of underground utilities and/or site improvements, landscaping, irrigation work
      - Irrigation line work shall be completed by directional bore or hand-dig method
   E. "Tree Protection Zone" signs shall remain in place as posted by GJCF and shall be maintained in the condition in which they were installed
   F. Tree Pruning for clearance issues must have prior authorization by GJCF staff
   G. No root 2 inches or larger shall be cut; consult with GJCF staff
3. Existing ROW or public place trees approved for removal by OCF must be protected in place until removed by an GJCF-licensed tree contractor to avoid structural failures:
   A. An GJCF tree removal permit is required
   B. Tree removal permits are not included with building permits and/or plan approval and must be obtained separately from the GJCF
4. Clear visibility into TPZ must be maintained. All construction banners, screens, barriers, and/or signs (except GJCF-posted TPZ signs) must be semi-transparent and not impede inspection of TPZ by GJCF staff
5. For projects with a duration of 5 days or longer:
   A. Protected trees shall be deep-root watered at a minimum interval of once every two weeks when temperatures are at or above 40-degrees
   B. Trees shall be watered at the rate of 20 gallons per inch caliper
      - OCF may ask for documented proof of watering and/or treatment.
6. Tree removal without permit and damages to public trees may be subject to the following:
   A. Issuance of notice of violation with associated citations / fines
   B. Responsible party for tree removal or tree damage shall be responsible for lost value based on industry standard tree appraisal methods as determined by GJCF

2529 HIGH COUNTRY CT, GRAND JUNCTION, CO 81501 P [970] 254- 3825 F [970] 254-3878 www.gjcity.org



Any work in these areas require approval from Grand Junction City Forester (GJCF) prior to activity. Contact GJCF for instruction.

Area 1: Tree Protection Zone (TPZ) and Critical Root Zone Protection (CRZ)

-The Tree Protection Zone (TPZ) shall be equal to dripline or 1.5 feet radially from the tree for every one inch of trunk diameter at breast height (DBH = 4.5' above soil line), whichever is greater. In areas where space is constrained, tree protection zones may be approved at the CRZ radius.
-The Critical Root Zone (CRZ) shall be equal to one foot radially from the tree for every one inch of trunk diameter at breast height.

A. Min 6' in height steel chain link fence is required unless otherwise approved by the GJCF. Steel chain link fence panels or rolls are acceptable. With approval from GJCF, use of orange construction fencing in place of chain link fence may be acceptable.
1. When chain link rolls are installed, it shall be fastened to heavy duty steel posts with safety caps at minimum five (5) attachment points with 12-gauge wire, including points at top and bottom. Weave wire through top of roll to eliminate sag.
2. Posts shall be driven 2' to 3' below grade and spaced at max. five to ten foot (5' - 10') o.c. intervals. Fencing must be kept taut at all times.
3. "Tree Protection Zone" signs shall be placed one (1) per each tree protection zone minimum or more per direction of GJCF; maintain in the location and condition in which approved.
4. TPZ, including signage, shall be maintained in the location and condition in which approved.

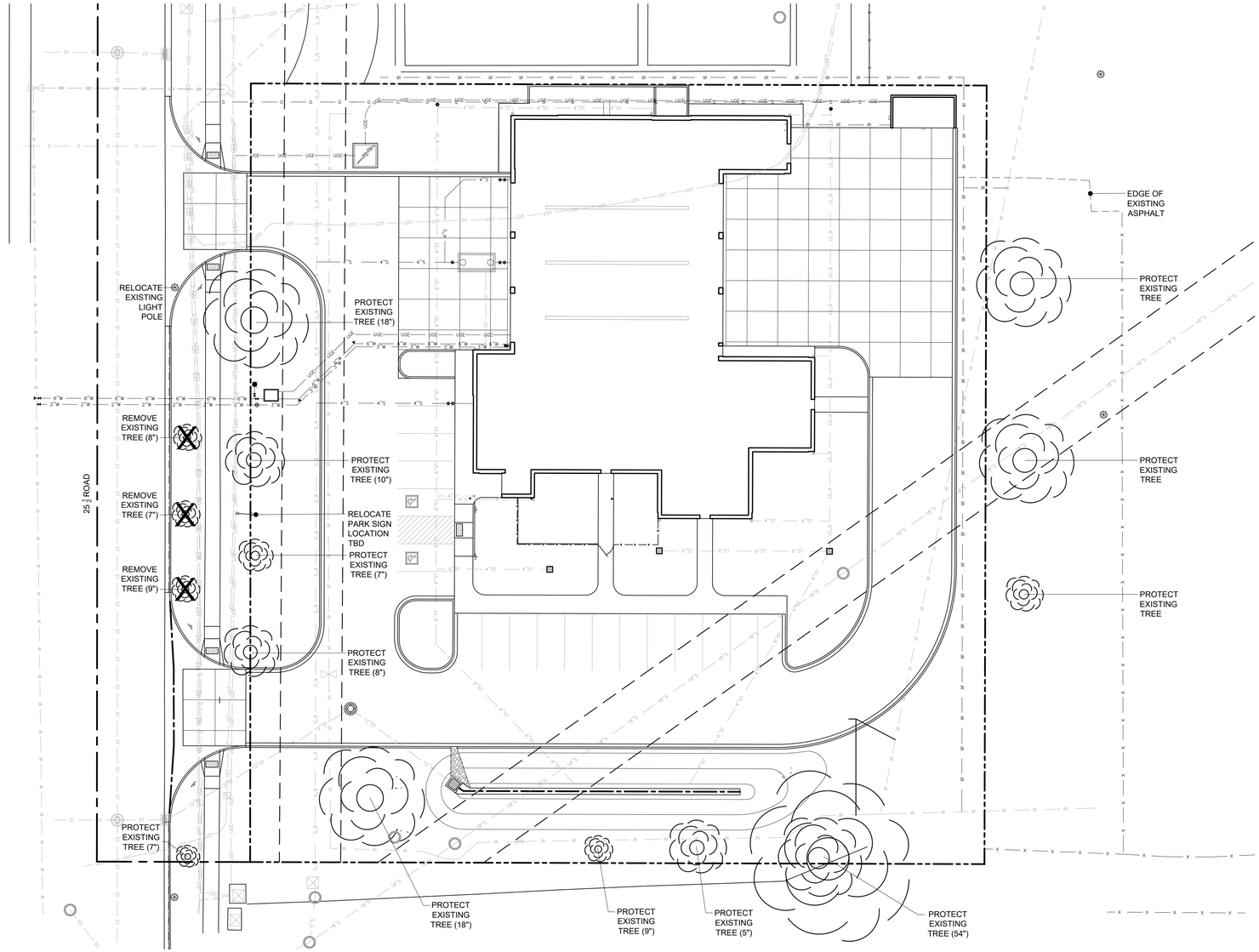
Area 2: Canopy Protection

Contact GJCF if potential for tree limb damage exists and/or if pruning is needed for any clearance issues prior to performing work.

Notes

1. GJCF Tree Protection Specifications shall be followed throughout duration of work.
2. After TPZ is approved;
   A. TPZ shall not be resized, modified, removed, or altered in any manner without prior written approval. TPZ shall be maintained in place as approved until removal is authorized by GJCF.
   B. Entrance/access to the TPZ is not permitted without prior written approval from the GJCF.
   C. No materials, debris, equipment, or site amenities shall be stored within the TPZ without prior written approval from the GJCF.
3. While TPZ fencing is in place, trees shall be deep-root watered at an interval of once every two weeks when temperatures are at or above 40 degrees F. Trees shall be watered at the rate of twenty (20) gallons per inch DBH. GJCF may ask for proof of watering.
4. Violation of TPZ or damage to protected trees is subject to penalty per City Ordinance.
5. Responsible party for tree removal or damage shall be responsible for lost value based on industry standard tree appraisal methods as determined by GJCF

CITY OF Grand Junction COLORADO	City of Grand Junction Office of the City Forester 2529 High Country Ct Grand Junction, CO 81501	Tree Protection Zone Fencing Detail	Detail: GJCF-TPZ 1 Effective: 11-15-2020



1 TREE REMOVAL AND PROTECTION PLAN
SCALE: 1"=20'-0"

0 20' 40'

NORTH

Plan Notes:
1. All tree protection and tree removal work on this plan shall be included in the Fire Station #3 construction contract.
2. The three crabapple trees along 25 1/2 Road shall be removed. Grind the stumps and haul all debris from the site. Prepare for new sod.
3. Tree protection is required for all 13 existing trees shown on this plan. The contractor must follow the GJCF specifications and details shown on this sheet.
4. Keep a safe distance from the tree protection zones. Contact the city forester if any construction activities interfere with the tree protection zones.

UTILITY NOTIFICATION
CENTER OF COLORADO
CALL 811
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BG+ co.
Architecture
Interior Design
Project Management

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Grand Junction, CO 81501
970-242-1058 office

BLYTHE GROUP + co.

MRLA
MITCH REWOLD LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECTURE AND LAND PLANNING
386 34 1/2 Road
Palisade, Colorado 81526 (970) 361-4345

GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

580 25 1/2 ROAD GRAND JUNCTION, CO 81505

TREE REMOVAL AND PROTECTION PLAN

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021
PROJECT #: 2072
SHEET #:

L1-1

IRRIGATION SCHEDULE

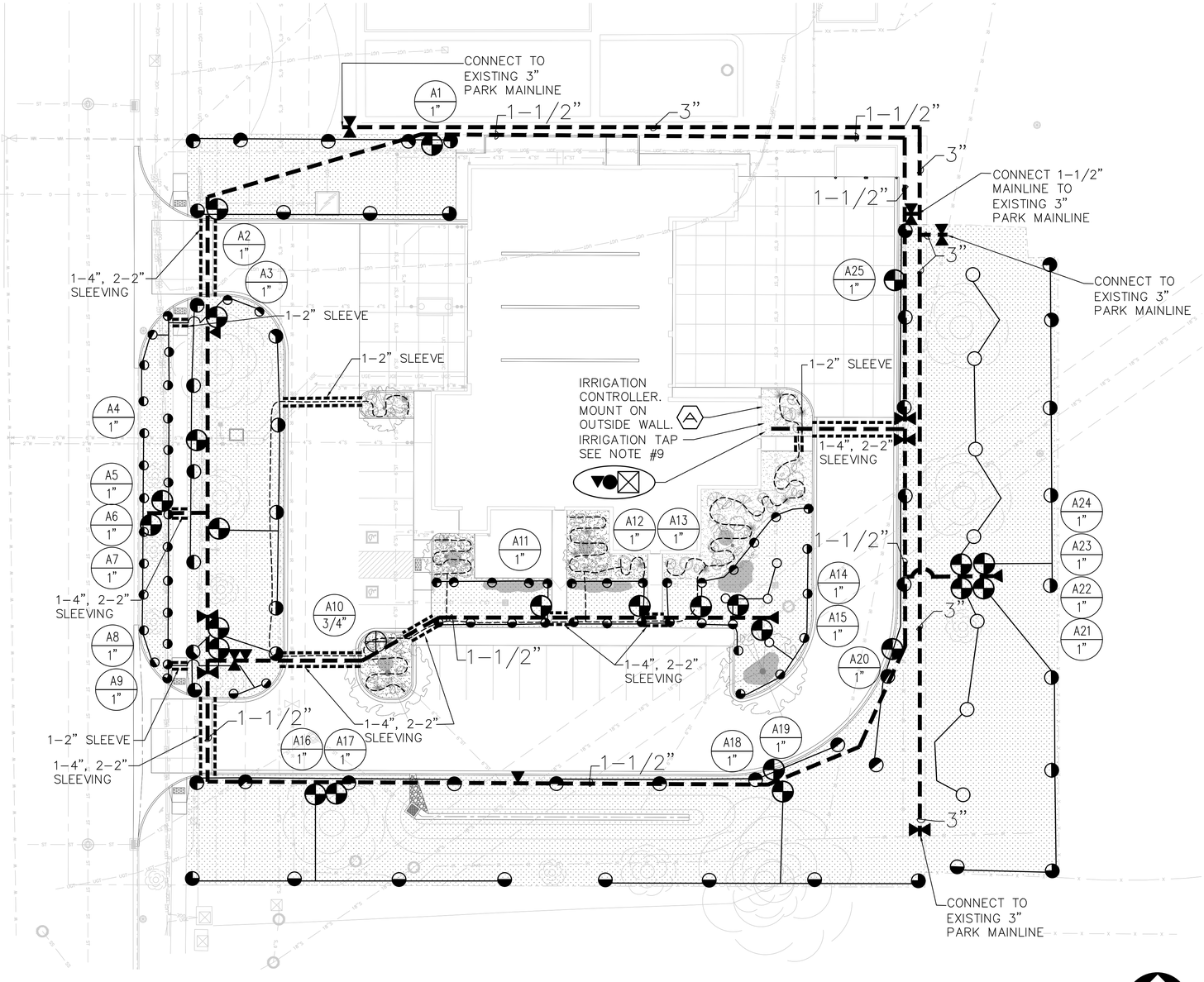
SYMBOL	MODEL	DESCRIPTION	DETAIL
	1806 –SAM–PRS W/ 15 SER. NOZZLE	RAINBIRD POP UP SPRAY HEAD	1
	5006+–R–SAM–SS–2.5	RAINBIRD ROTOR	2
	5006+–R–SAM–SS–3.0	RAINBIRD ROTOR	2
	PEB–PRS–D SERIES	RAINBIRD CONTROL VALVE	3
	LINE SIZE	GATE VALVE	4
	s"	DRIP VALVE	5
	44LRC	RAINBIRD QUICK COUPLER	6
	825YA–3/4"	FEBCO BACKFLOW PREVENTER	8
	ESP–LXME SERIES 28 STATION	RAINBIRD CONTROLLER – PEDESTAL MOUNT	
	CL. 200 B.E. (1–1/2") CL. 200 R.T. (3")	PVC MAINLINE	
	CL. 200 B.E. (1")	PVC LATERALS – 1" UNLESS OTHERWISE NOTED	
	CL. 200	PVC SLEEVING	
	¾"	DRIP TUBING	
		CONTROLLER NUMBER VALVE SIZE	
	PEB SERIES – 3/4"	RAINBIRD MASTER VALVE	

IRRIGATION NOTES

1. REFER TO SPECIFICATIONS AND DETAILS FOR INSTALLATION INSTRUCTIONS.
2. ALL BASE PLAN INFORMATION HAS BEEN TAKEN FROM DRAWINGS PREPARED BY MRLA, INC.
3. IRRIGATION SYSTEM IS DESIGNED FOR A STATIC WATER PRESSURE OF 70 PSI. CONTRACTOR IS TO VERIFY PRESSURE PRIOR TO INSTALLATION OF IRRIGATION SYSTEM AND NOTIFY LANDSCAPE ARCHITECT WITH VERIFICATION FIGURES. FAILURE TO NOTIFY LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR TAKING RESPONSIBILITY FOR ANY ALTERATIONS AT HIS/HER OWN COST.
4. INSTALL DRIP EMITTERS IN BED AREAS AS DESCRIBED BELOW:

GROUND COVER	RAINBIRD XB–05PC	1 EA. 12" RADIUS, 15" O.C.
1 GALLON MAT'L.	RAINBIRD XB–05PC	1 EA.
5 GALLON MAT'L.	RAINBIRD XB–05PC	2 EA.
DECIDUOUS TREES (1i" – 2" CAL.)	RAINBIRD XB–10PC	3 EA.
DECIDUOUS TREES (3"–4" CAL.)	RAINBIRD XB–10PC	4 EA.
PINE TREES (6'–10')	RAINBIRD XB–10PC	2 EA.
PINE TREES (11'–14')	RAINBIRD XB–10PC	3 EA.

5. CONTRACTOR TO COORDINATE INSTALLATION OF SLEEVING WITH INSTALLATION OF PAVING AND SIDEWALKS.
6. USE RAINBIRD 12 SERIES NOZZLES FOR SPRAY HEADS SPACED LESS THAN 13'.
7. USE RAINBIRD 10 SERIES NOZZLES FOR SPRAY HEADS SPACED LESS THAN 11'.
8. ELECTRICAL POWER TO THE NEW CONTROLLER IS SUPPLIED BY CONTRACTOR.
9. TAP LOCATION:
   CONNECT TO NEW 3/4" COPPER LINE STUB AND INSTALL 3/4" COPPER, 3/4" STOP AND WASTE VALVE, 3/4" BACKFLOW PREVENTER, 3/4" PRV, 3/4" MASTER VALVE AND EXTEND 1–1/2" MAINLINE AS SHOWN. INSTALL MASTER VALVE IN SEPARATE CARSON #1419–13B VALVE BOX. INSTALL STRONGBOX #SBBC–30 A.L. BACKFLOW PREVENTER CAGE. INSTALL TAP, METER AND ALL RELATED EQUIPMENT AS PER CITY SPECIFICATIONS AND DETAILS.
10. PLAN HAS BEEN PREPARED USING LIMITED ON SITE OBSERVATION. PLAN IS DIAGRAMMATIC AND DOES NOT REFLECT ALL EQUIPMENT, ETC., THAT COULD BE ENCOUNTERED DURING CONSTRUCTION. ALL TIE–IN LOCATIONS, MAINLINE LOCATIONS AND LATERAL LOCATIONS ARE APPROXIMATE AND SHALL REQUIRE EXACT LOCATION BY CONTRACTOR.
11. IN EXISTING PLANTING AND SOD AREAS, CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THESE AREAS IN A HEALTHY STATE DURING CONSTRUCTION. ANY DAMAGE TO PLANTING OR SOD DUE TO NEGLECT BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
12. TURN OVER TO THE OWNER ALL EXISTING IRRIGATION EQUIPMENT (I.E.: HEADS, VALVES, ETC.) THAT IS REMOVED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING UTILITIES, CURB AND GUTTER, WALLS, EXISTING IRRIGATION, OR WALKWAYS AND OTHER EXISTING STRUCTURES THAT IS A RESULT OF HIS/HER WORK. THE REPAIR OF SUCH DAMAGE WILL BE AT NO ADDITIONAL COST TO THE OWNER.
14. ADJUST, EXTEND, CAP REMOVE AND RE–INSTALL EXISTING IRRIGATION IN THE AREAS DISTURBED BY CONSTRUCTION FOR PROPER 100% IRRIGATION COVERAGE.
15. INSTALL THRUST BLOCKS FOR ALL 3" MAINLINE FITTINGS.



1 IRRIGATION PLAN
SCALE: 1"=20'-0"

0 20' 40'

NORTH

IRRIGATION DESIGN & CONSULTING, INC.
303–442–7027
303–665–8485– FAX

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GRAND JUNCTION
FIRE DEPARTMENT
FIRE STATION #3

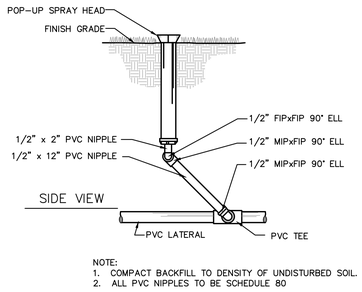
580 25 ½ ROAD
GRAND JUNCTION, CO 81505

IRRIGATION PLAN

FOR CONSTRUCTION

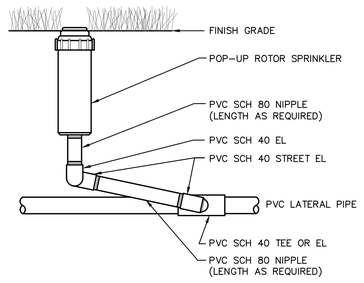
REV.	DESC.	DATE:

DATE: 02/25/2021
PROJECT #: 2072
SHEET #:
IR1-0

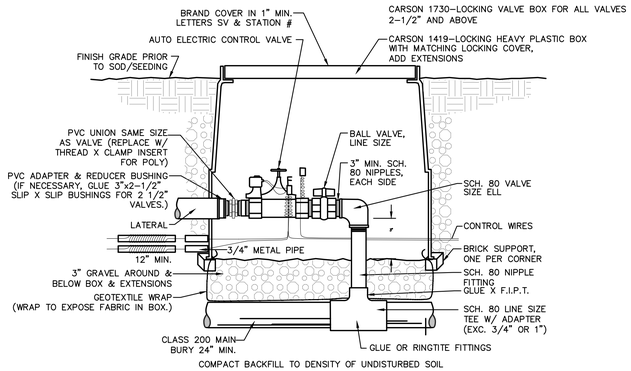


NOTE:
1. COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL.
2. ALL PVC NIPPLES TO BE SCHEDULE 80

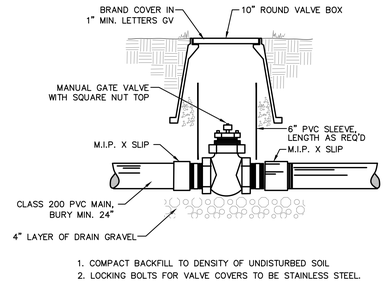
(1) POP-UP SPRAY HEAD



(2) POP-UP ROTOR HEAD

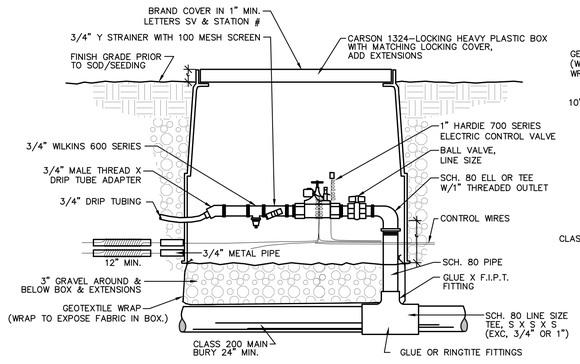


(3) CONTROL VALVE



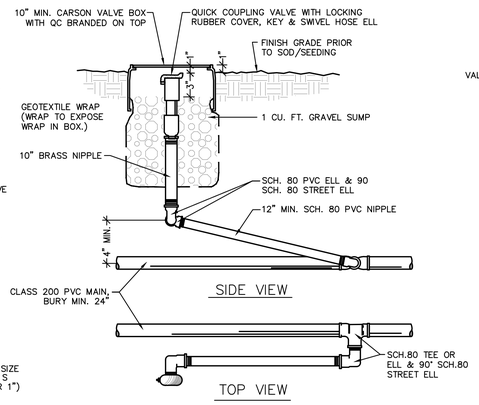
1. COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL
2. LOCKING BOLTS FOR VALVE COVERS TO BE STAINLESS STEEL.

(4) ISOLATION GATE VALVE



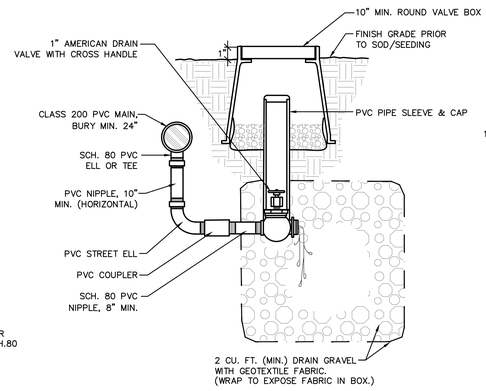
COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL

(5) DRIP VALVE



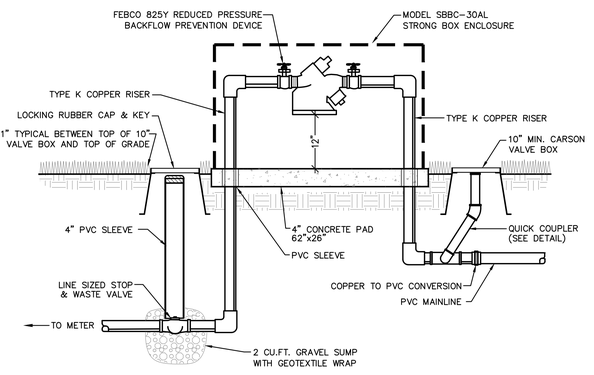
COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL

(6) QUICK COUPLER



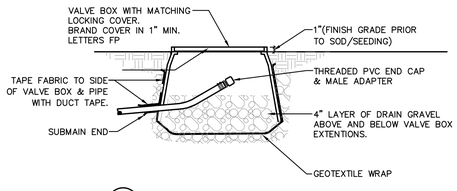
COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL

(7) DRAIN VALVE

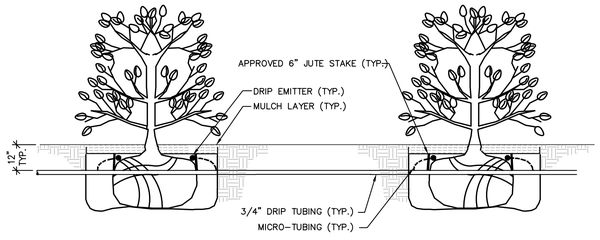


COMPACT BACKFILL TO DENSITY OF UNDISTURBED SOIL

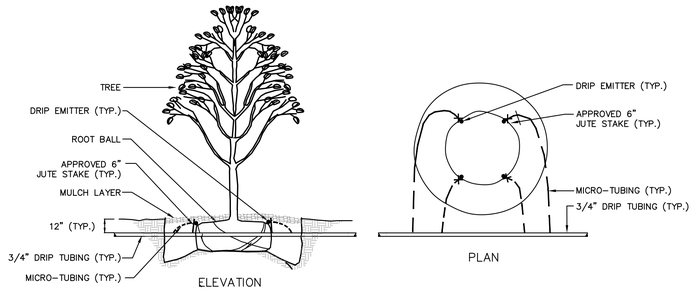
(8) REDUCED PRESSURE BACKFLOW PREVENTER



(9) DRIP-BLOWOUT



(10) DRIP-SHRUB



(11) DRIP-TREE

IDC
IRRIGATION DESIGN & CONSULTING, INC.
303-442-7027
303-665-8485- FAX

UTILITY NOTIFICATION CENTER OF COLORADO
CALL 811
LOCATION OF UTILITIES SHOWN HEREON WAS PROVIDED BY OTHERS. CONTRACTOR MUST VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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970-242-1058 office
BLYTHE GROUP + co.

MRLA
MITCH REWOLD LANDSCAPE ARCHITECT
LANDSCAPE ARCHITECTURE AND LAND PLANNING
386 34 1/2 Road
Palisade, Colorado 81526 (970) 361-4345

GRAND JUNCTION
FIRE DEPARTMENT
FIRE STATION #3

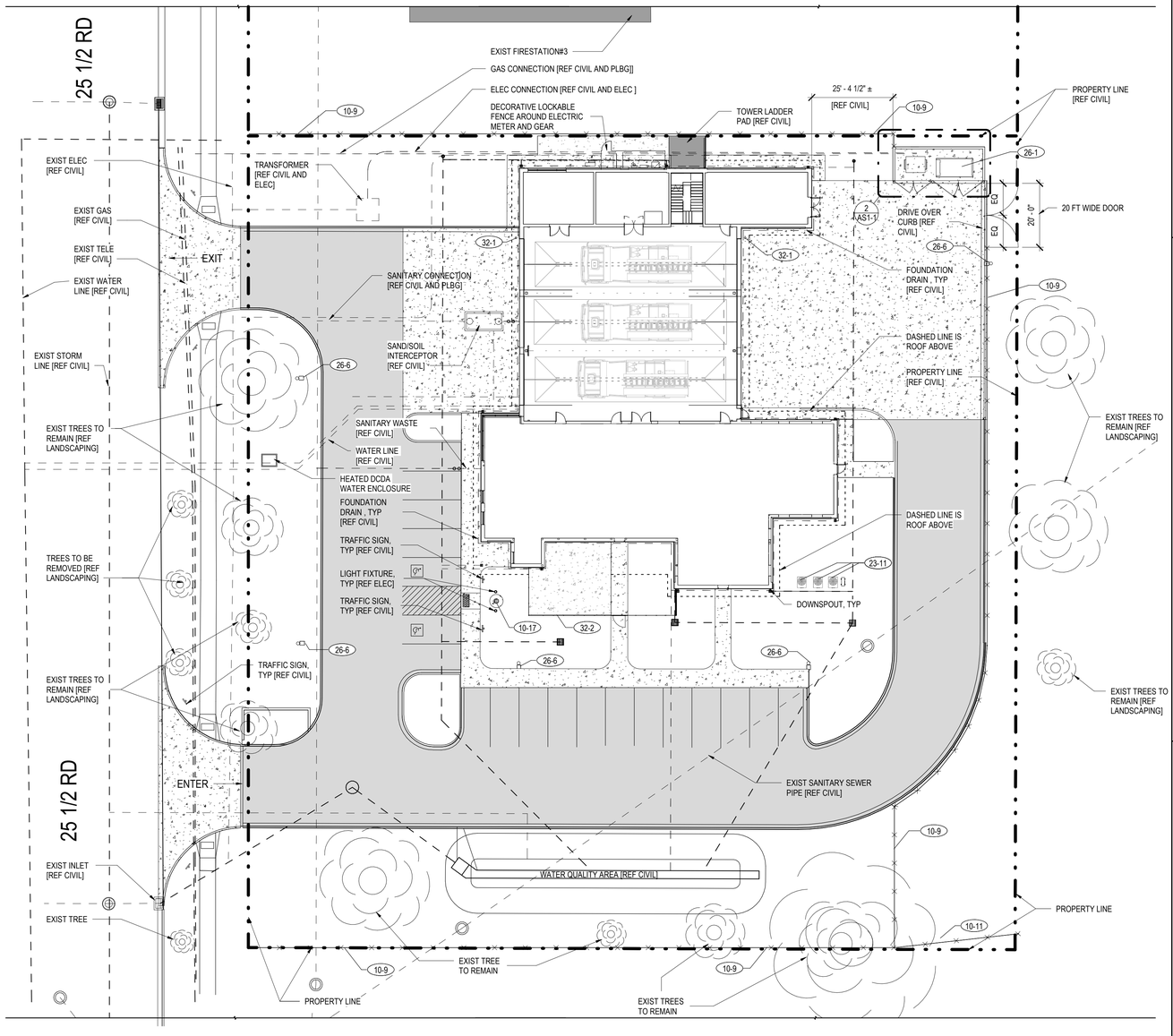
580 25 1/2 ROAD
GRAND JUNCTION, CO 81505

IRRIGATION DETAILS

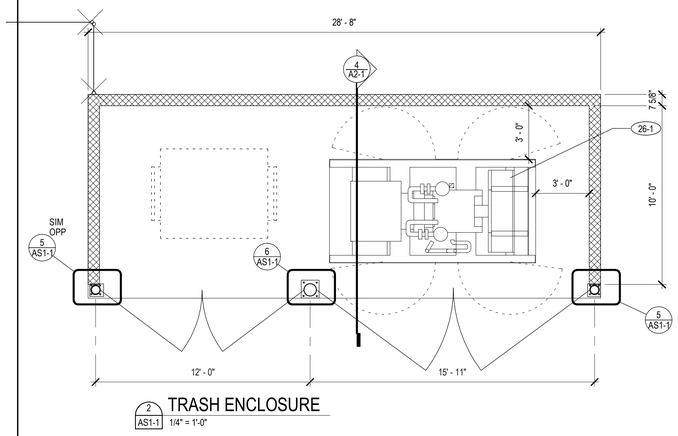
FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021
PROJECT #: 2072
SHEET #:
IR1-1

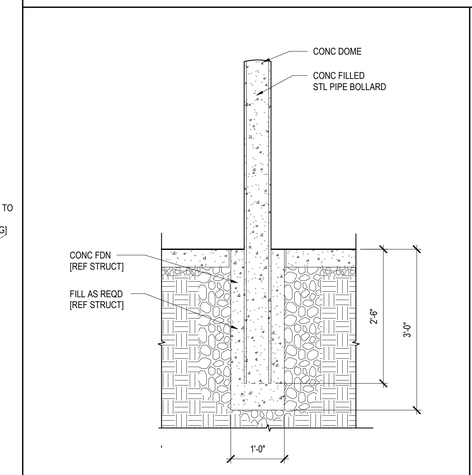


1 AS1-1 SITE PLAN
1" = 20'-0"
NORTH

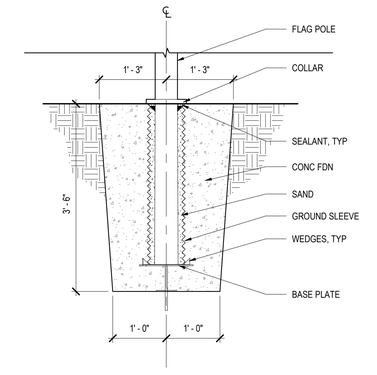


2 AS1-1 TRASH ENCLOSURE
1/4" = 1'-0"

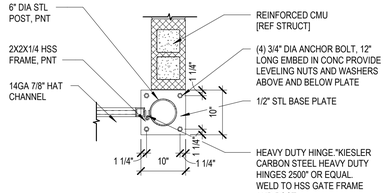
KEYNOTE LEGEND	
10-9	NEW 6 FT TALL DECORATIVE FENCE
10-11	EXISTING CHAIN LINK FENCE TO REMAIN, VIF
10-17	FLAGPOLE
23-11	MECH EQUIP [REF MECH]
26-1	EMERGENCY GENERATOR [REF ELEC]
26-6	SITE POLE LIGHTING, TYP [REF ELECT]
32-1	BOLLARD, TYP
32-2	PRIVACY FENCE



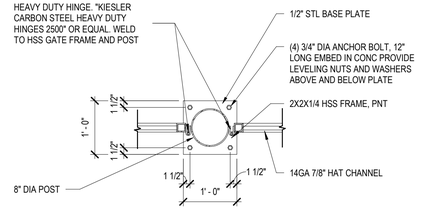
3 AS1-1 BOLARD DETAIL
3/4" = 1'-0"



4 AS1-1 FLAG POLE
3/4" = 1'-0"



5 AS1-1 CORNER POST DETAIL
3/4" = 1'-0"



6 AS1-1 MIDDLE POST DETAIL
3/4" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ARCHITECTURAL SITE PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/25/2021

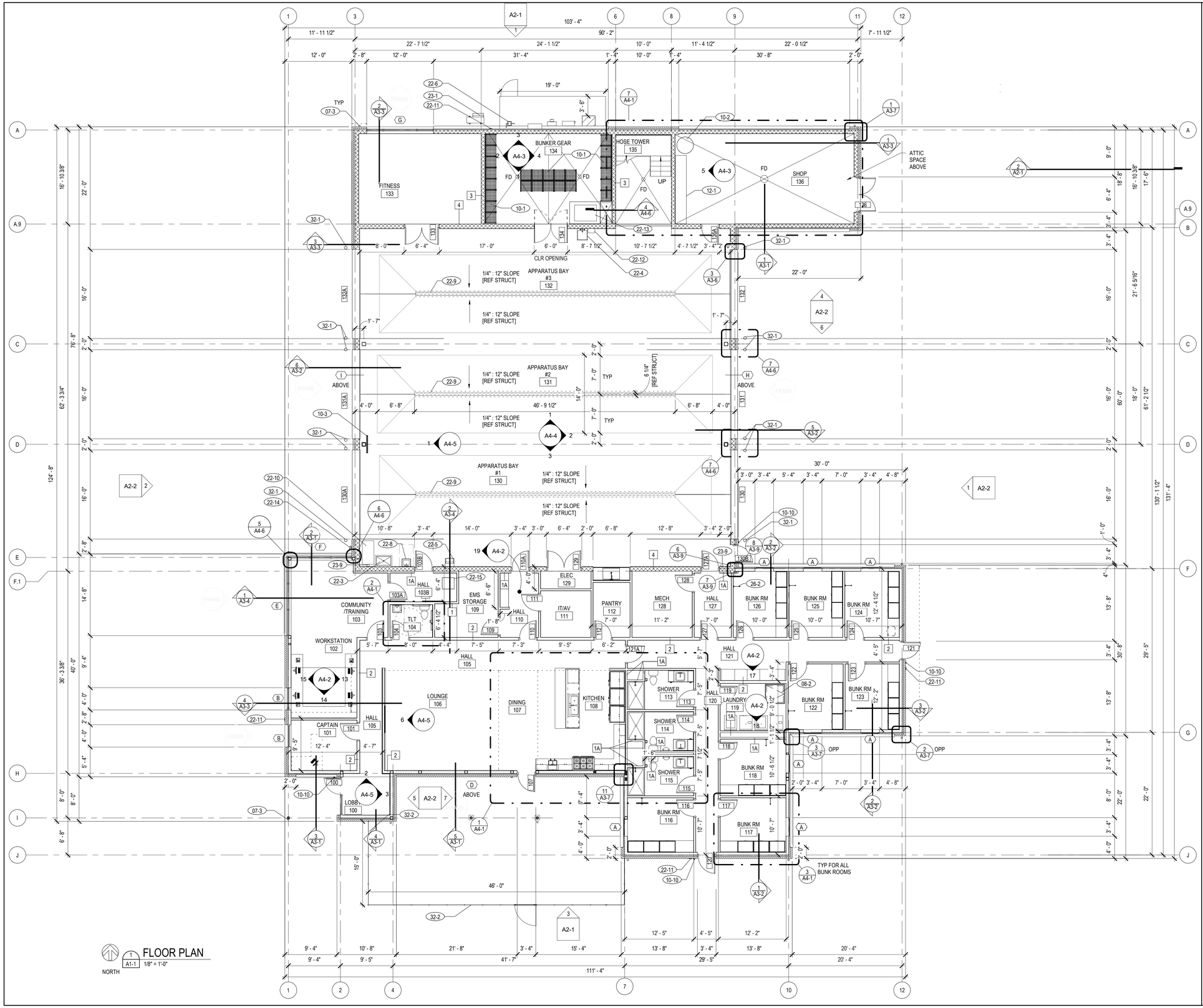
PROJECT #: 2072

SHEET #:

AS1-1

Project Team:

Print Date: 2/25/2021 3:14:32 PM



KEYNOTE LEGEND	
07-3	DOWN SPOUT, TYP
08-2	CRAWL SPACE ACCESS DOOR
10-1	GEAR LOCKER, FBO, TYP
10-2	AIR COMPRESSOR, FBO CONTRACTOR INSTALLED
10-3	40" FLAT SCREEN TV, FBO CENTER ON COLUMN. PROVIDE OUTLET BEHIND TV [REF ELEC]
10-10	CARD READER
12-1	WORK BENCH, FBO
22-3	MOP SINK [REF PLBG]
22-4	UTILITY SINK [REF PLBG]
22-5	EWC [REF PLBG]
22-6	GAS METER [REF PLBG]
22-8	SINK [REF PLBG]
22-9	TRENCH DRAIN [REF PLBG]
22-10	FIRE SPRINKLER RISER ASSEMBLY [REF PLBG]
22-11	HOSE BIB [REF PLBG]
22-12	HOSE REEL [REF PLBG]
22-13	EXTRACTION WASHER FBO
22-14	FIR DEPARTMENT CONNECTION [REF PLBG / CIVIL]
22-15	ICE MAKER [REF PLBG]
23-1	HEAT PUMP [REF MECH]
23-9	EXHAUST SYSTEM SENSOR, MOUNT SENSOR BELOW HOSE REEL SHOWN BEYOND AT EAST AND WEST WALLS [REF MECH]
26-2	LIGHT FIXTURE, TYP [REF ELEC]
32-1	BOLLARD, TYP
32-2	PRIVACY FENCE

LEGEND

- CMU
- WALL
- DOOR
- BRICK

GENERAL NOTES

1. ALL INTERIOR PARTITIONS ARE TYPE 1, UNO. REFERENCE DRAWING SHEET G3-1 FOR ADDITIONAL WALL TYPES AND CONSTRUCTION.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. REFERENCE ROOM FINISH SCHEDULE FOR INTERIOR FINISHES.

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

FLOOR PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/25/2021

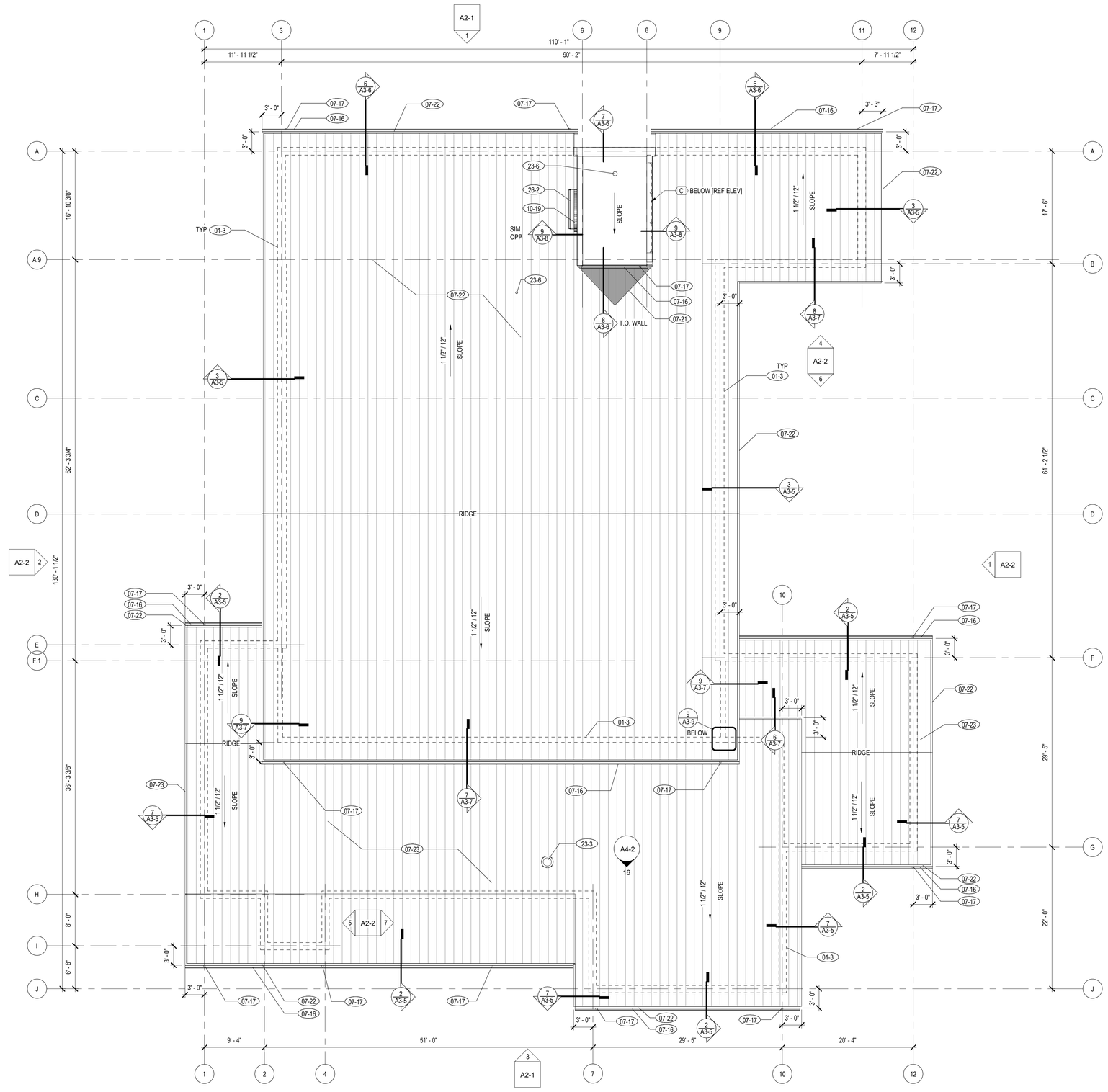
PROJECT #: 2072

SHEET #:

A1-1

Project Team:

Print Date: 2/25/2021 3:02:44 PM



ROOF PLAN

1 A1-2 1/8" = 1'-0"

KEYNOTE LEGEND	
01-3	DASHED LINES OF EXTERIOR WALLS BELOW
07-16	PREFINISHED METAL GUTTER
07-17	PREFINISHED METAL DOWNSPOUT
07-21	CRICKET
07-22	PREFINISHED METAL FASCIA
07-23	MEMBRANE ROOFING PROVIDE DECORATIVE THERMOPLASTIC POLYOLEFIN (TPO) RIB CONTOURS, SPACED AT 18 INCHES O.C., FULLY ADHERED TO ROOFING MEMBRANE TO SIMULATE THE APPEARANCE OF A STANDING SEAM METAL ROOFING SYSTEM
10-19	SIGNAGE [REF EXTERIOR ELEVATIONS]
23-3	EXHAUST FAN [REF MECH]
23-6	VENT PENETRATION [REF MECH]
26-2	LIGHT FIXTURE, TYP [REF ELEC]

GENERAL NOTES

1. ALL INTERIOR PARTITIONS ARE TYPE 1, UNO. REFERENCE DRAWING SHEET A3-1 FOR ADDITIONAL WALL TYPES & CONSTRUCTION.
2. INTERIOR DIMENSIONS ARE TO F.O. STUD, UNO.
3. EXTERIOR DIMENSIONS ARE TO F.O. STUD, MASONRY, OR CONC, UNO.
4. REFERENCE ROOM FINISH SCHEDULE FOR INTERIOR FINISHES.
5. DIMENSIONS TO EXISTING WALLS ARE TO FINISH FACE, UNO.

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

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ROOF PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/25/2021

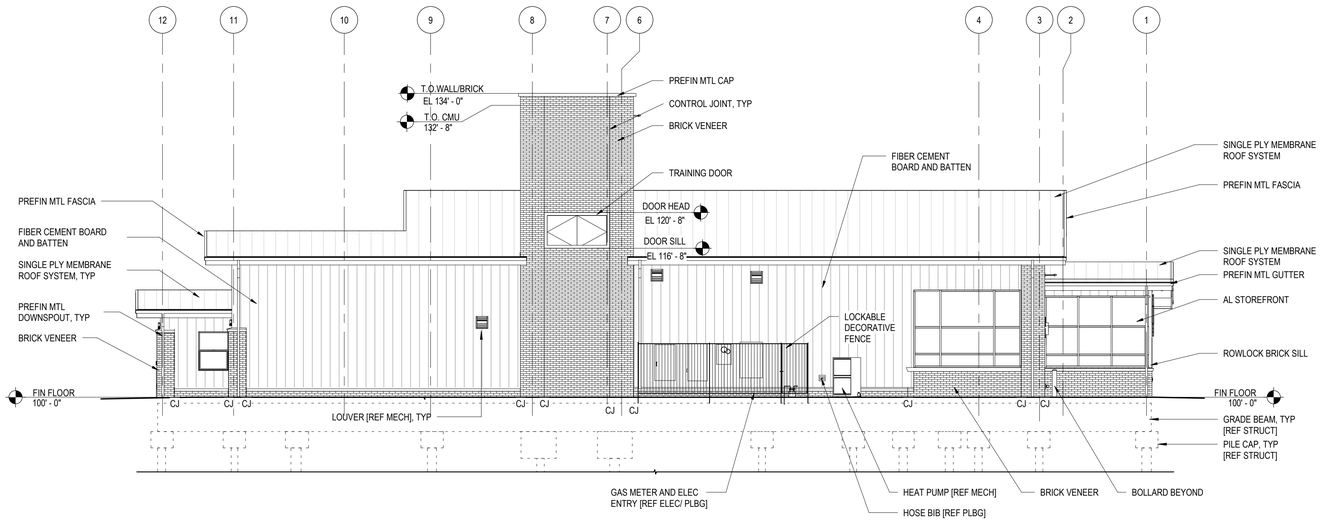
PROJECT #: 2072

SHEET #:

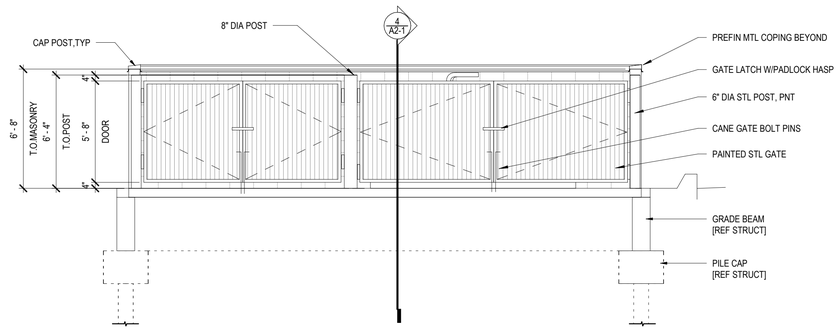
A1-2

Project Team:

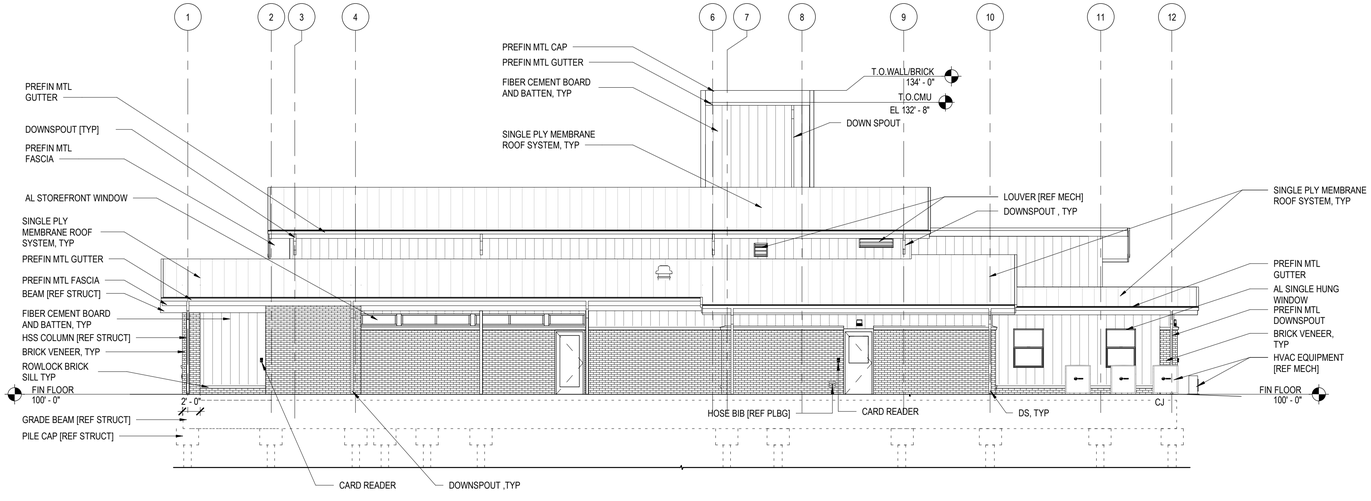
Print Date: 2/26/2021 9:02:57 AM



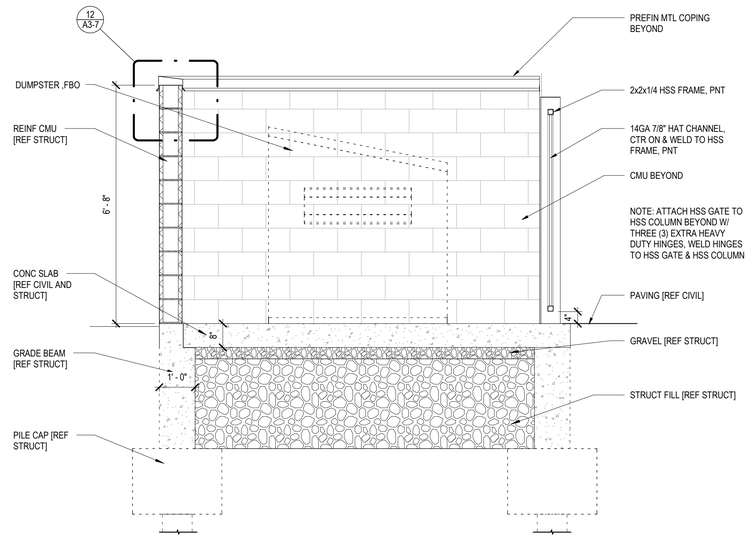
1 A2-1 NORTH ELEVATION
1/8" = 1'-0"



2 A2-1 ELEVATION
1/4" = 1'-0"



3 A2-1 SOUTH ELEVATION
1/8" = 1'-0"



4 A2-1 DUMPSTER ENCLOSURE SECTION
1/2" = 1'-0"

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GRAND JUNCTION FIRE
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EXTERIOR ELEVATIONS

FOR CONSTRUCTION

REV. DESC. DATE:

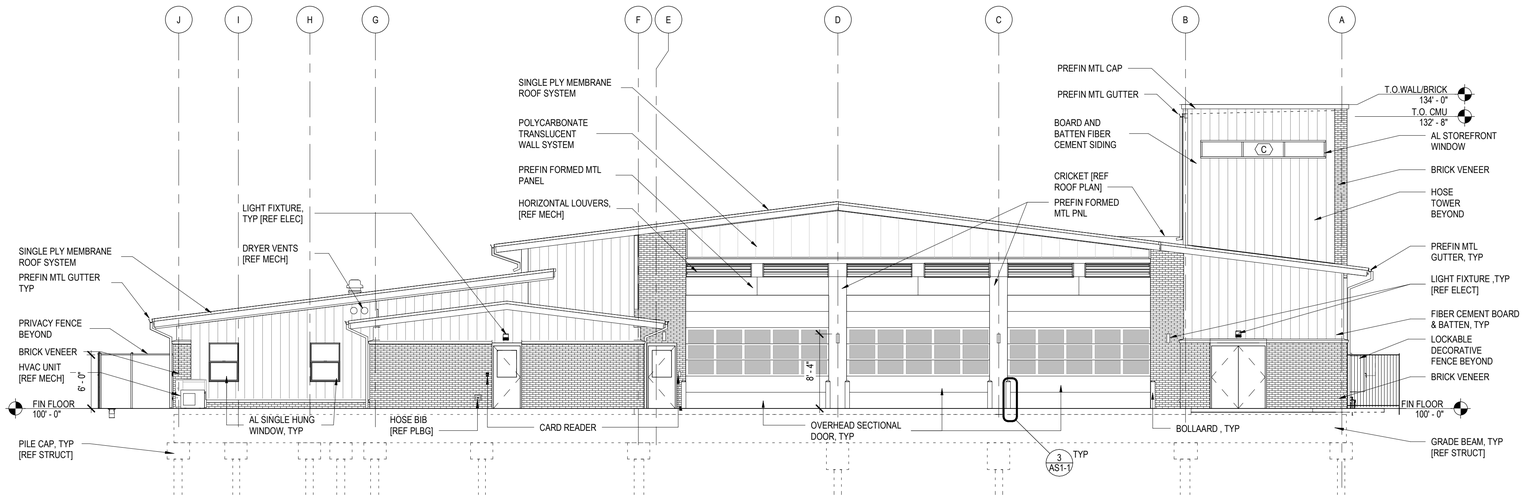
DATE: 2/25/2021

PROJECT #: 2072

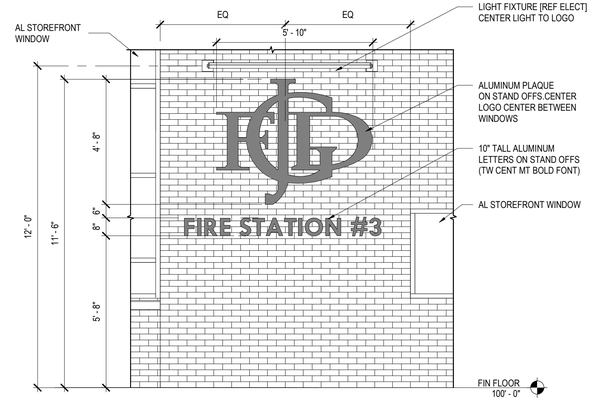
SHEET #:

A2-1

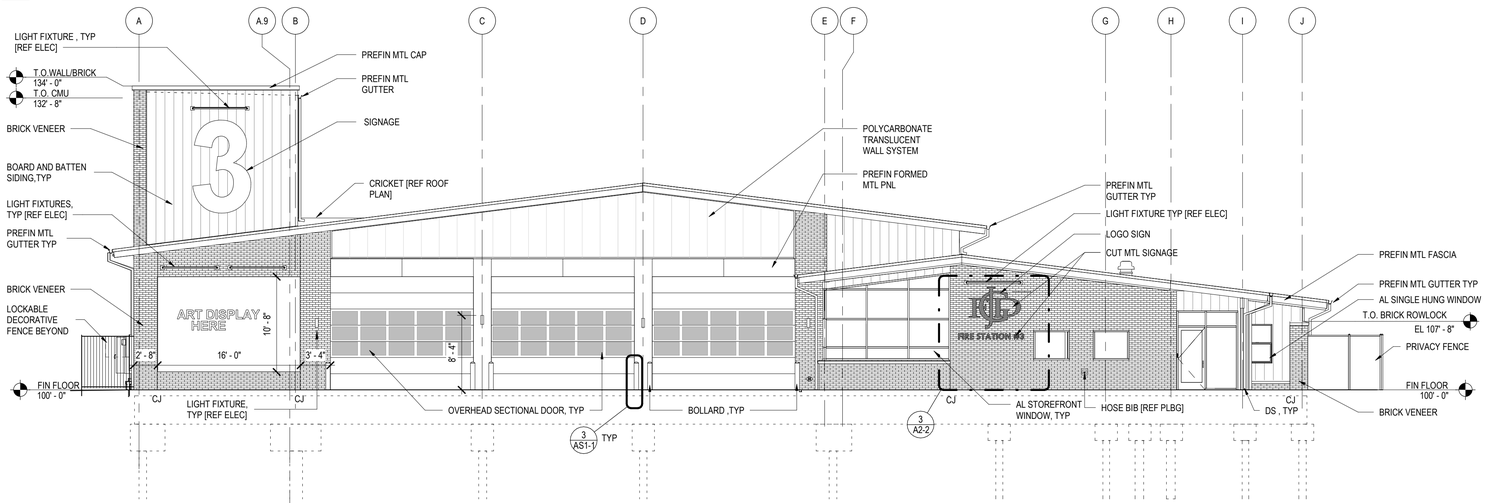
Project Team:
Print Date: 2/25/2021 3:48:48 PM



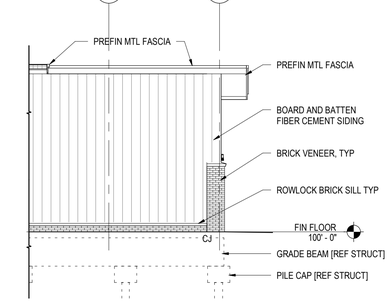
1 A2-2 **EAST ELEVATION**
1/8" = 1'-0"



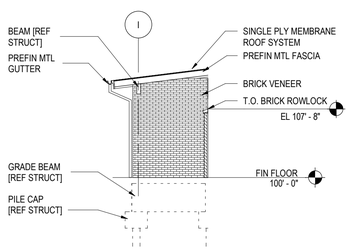
3 A2-2 **GJFS LOGO**
3/8" = 1'-0"



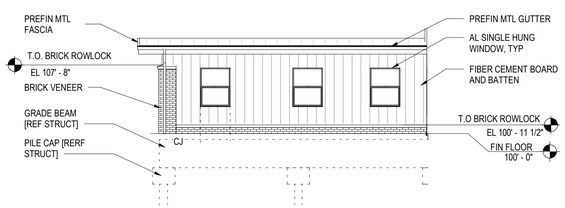
2 A2-2 **WEST ELEVATION**
1/8" = 1'-0"



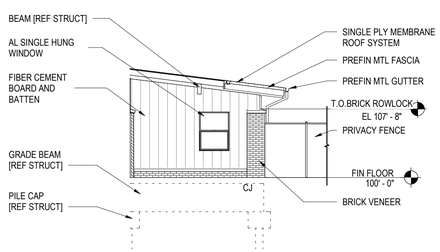
4 A2-2 **SOUTH ELEVATION**
1/8" = 1'-0"



5 A2-2 **EAST ELEVATION**
1/8" = 1'-0"



6 A2-2 **NORTH ELEVATION**
1/8" = 1'-0"



7 A2-2 **WEST ELEVATION**
1/8" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

EXTERIOR ELEVATIONS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

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A2-2

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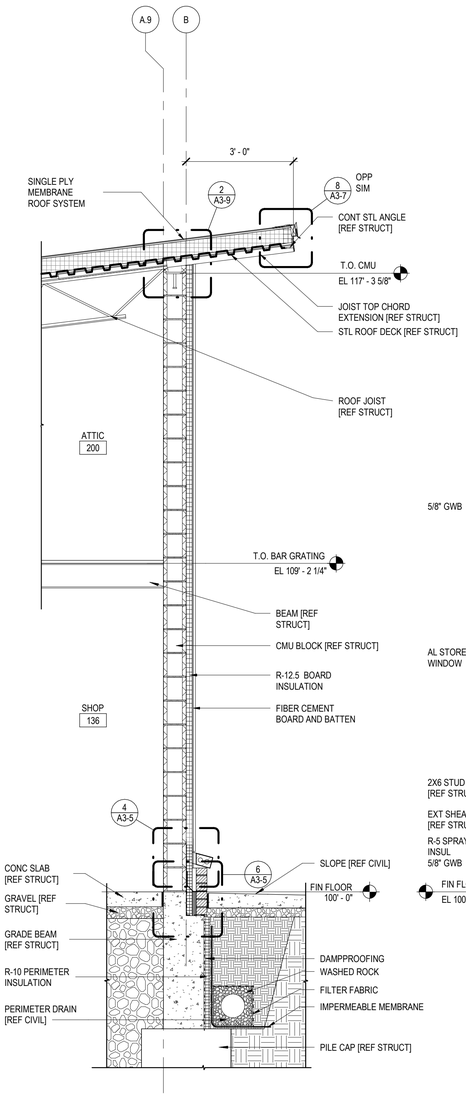
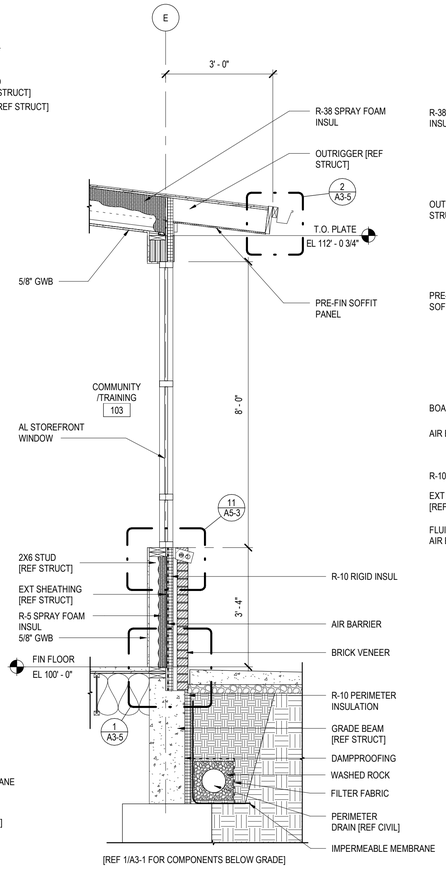


1 A3-1 WALL SECTION
1/2" = 1'-0"



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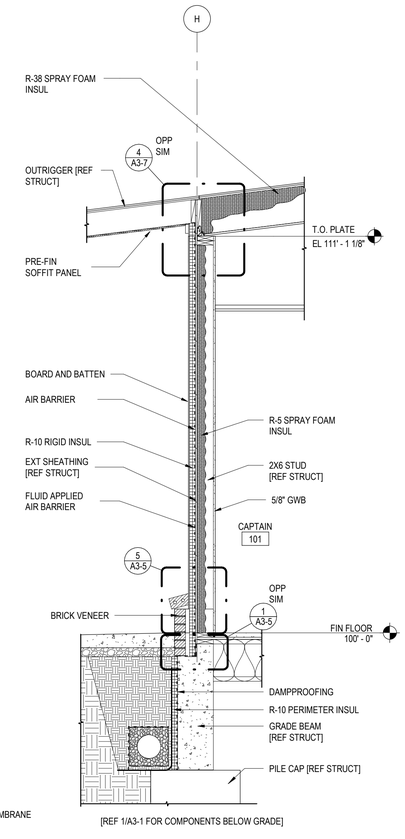
2 A3-1 WALL SECTION
1/2" = 1'-0"



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3 A3-1 WALL SECTION
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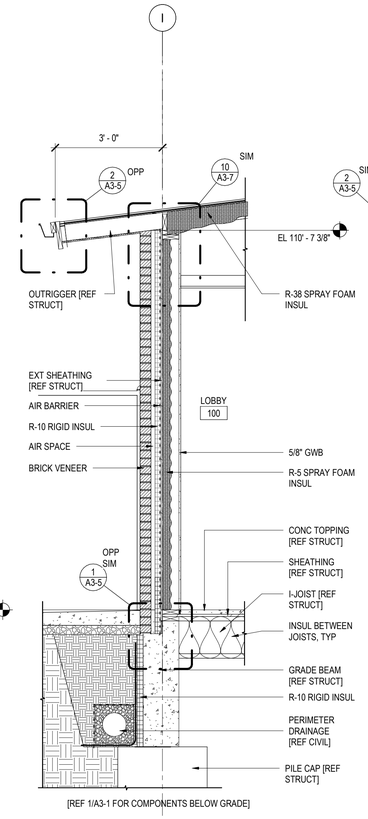

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4 A3-1 WALL SECTION
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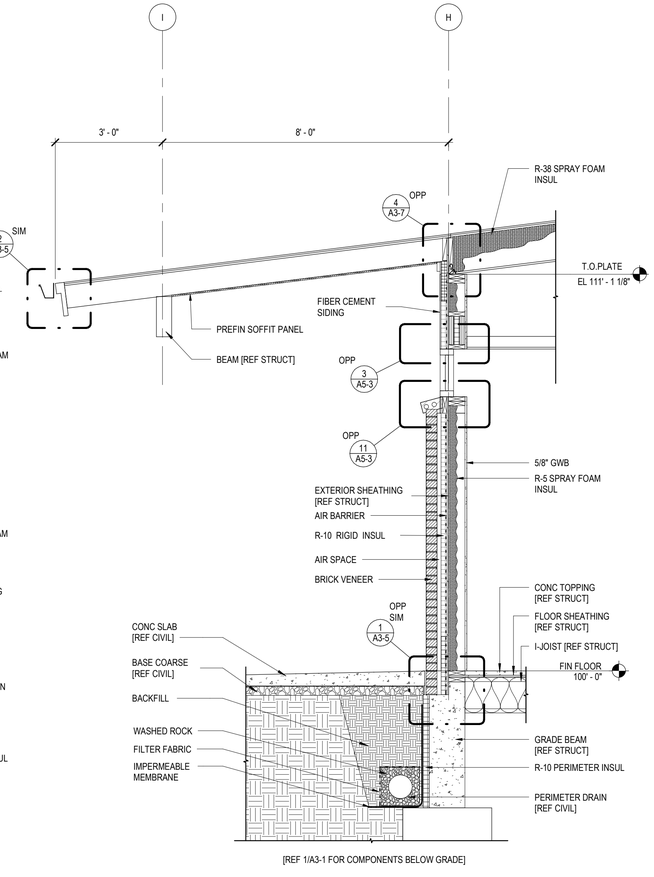

[REF 1/A3-1 FOR COMPONENTS BELOW GRADE]

5 A3-1 WALL SECTION
1/2" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

WALL SECTIONS

FOR CONSTRUCTION

REV. DESC. DATE:

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PROJECT #: 2072

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A3-1

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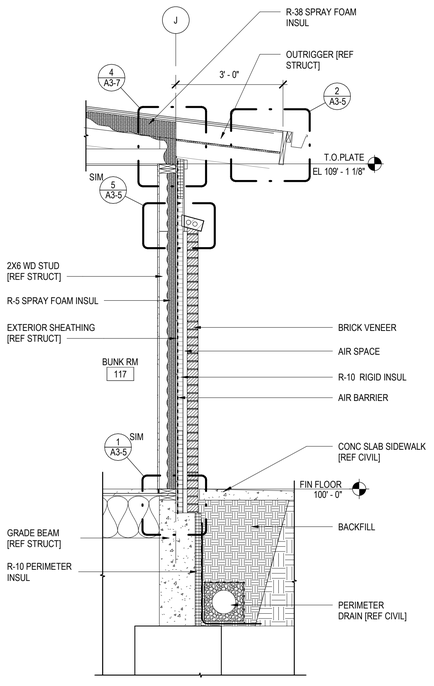
Print Date: 2/25/2021 3:02:53 PM



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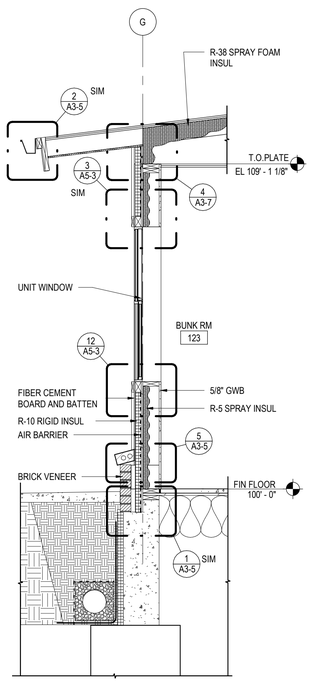
1 A3-2 WALL SECTION 1/2" = 1'-0"



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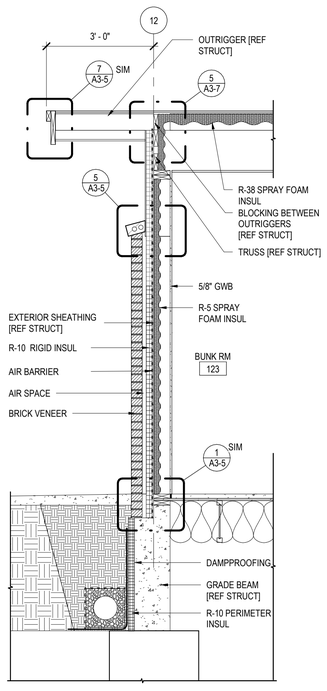

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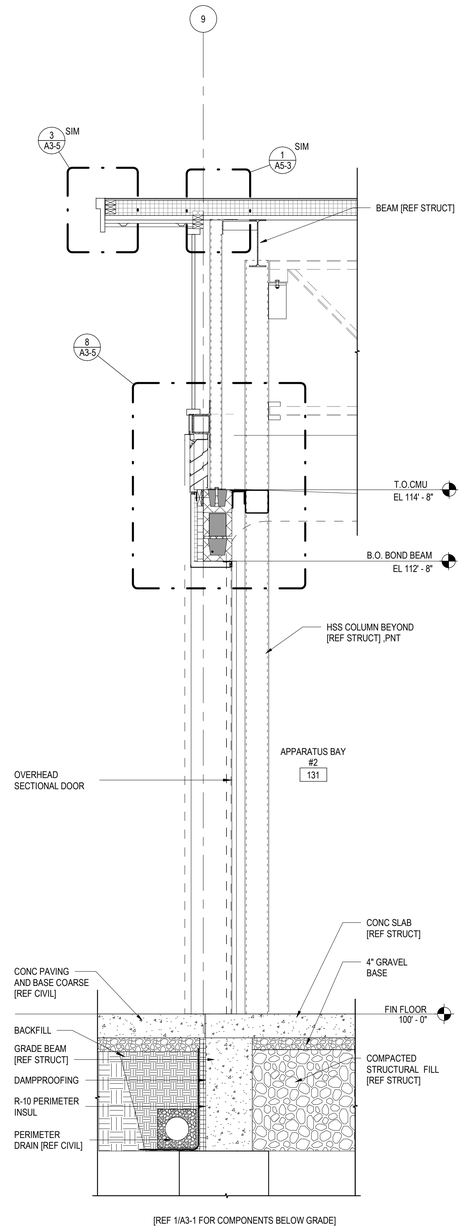
3 A3-2 WALL SECTION 1/2" = 1'-0"



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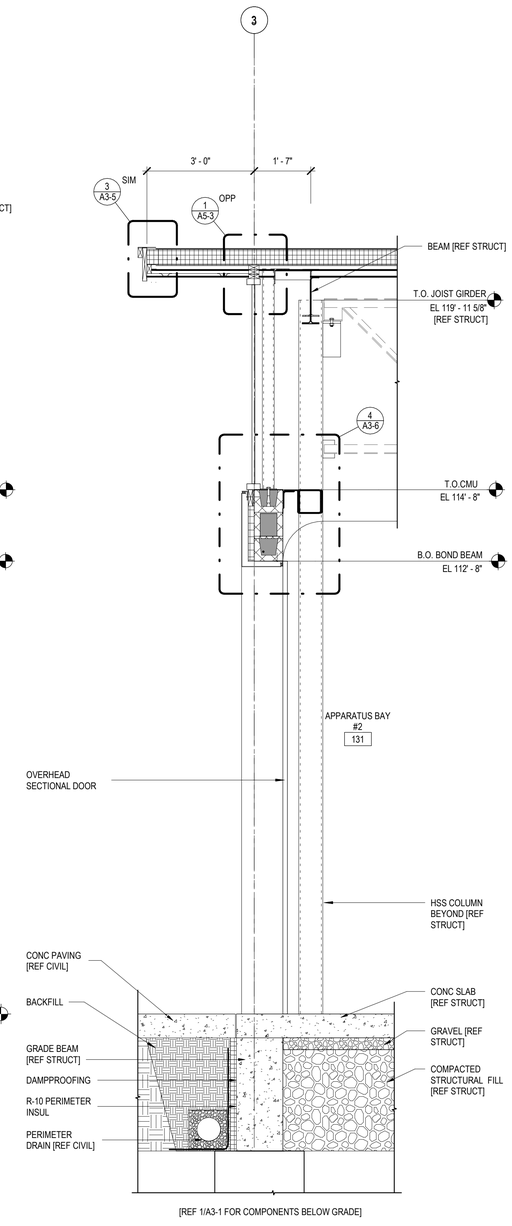
5 A3-2 WALL SECTION 1/2" = 1'-0"



[REF 1/A3-1 FOR COMPONENTS BELOW GRADE]

6 A3-2 WALL SECTION 1/2" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

WALL SECTIONS

FOR CONSTRUCTION

REV. DESC. DATE:

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PROJECT #: 2072

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A3-2

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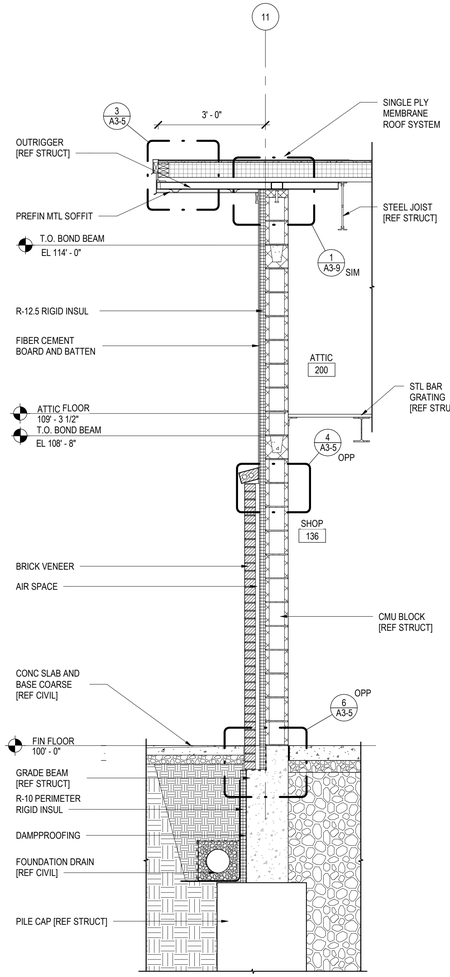

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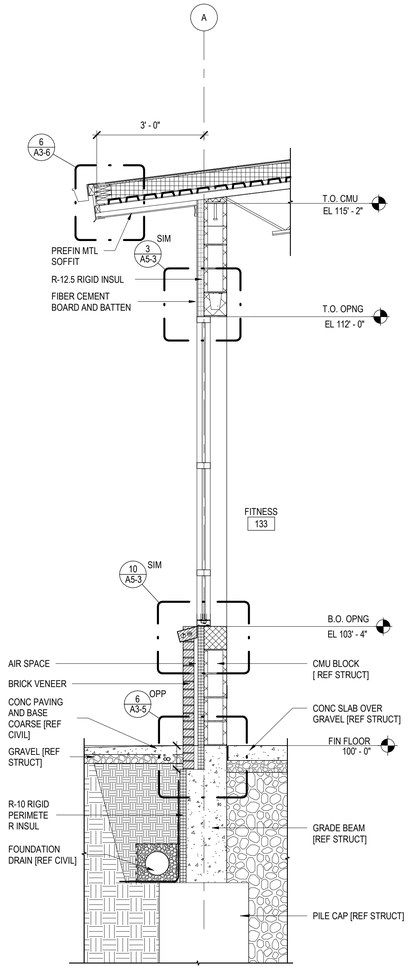
1 A3-3 WALL SECTION
1/2" = 1'-0"



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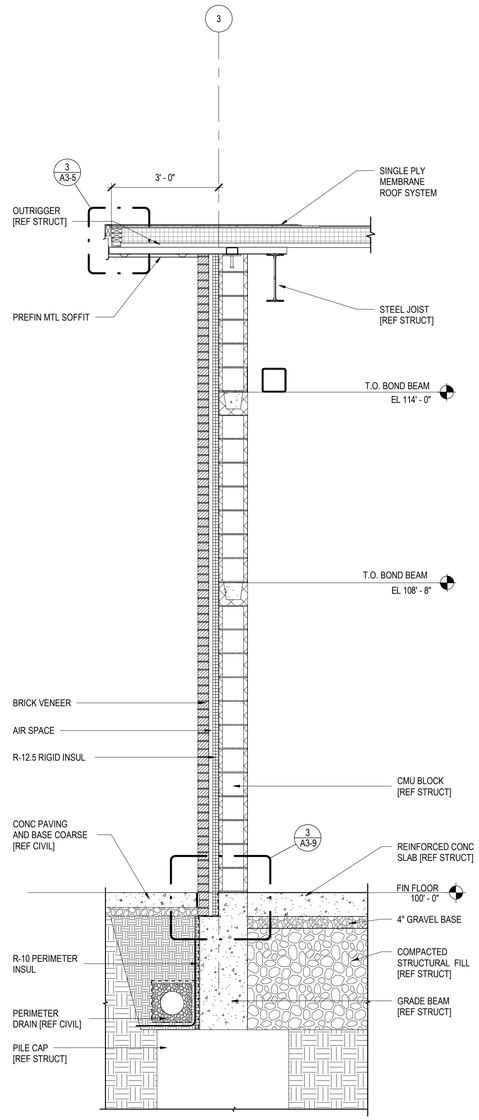
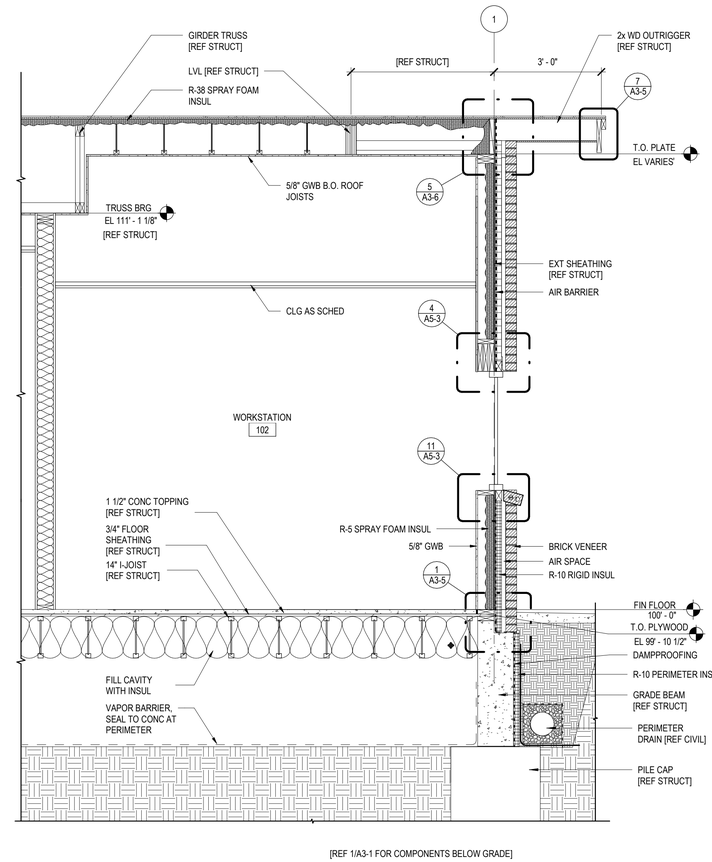
2 A3-3 WALL SECTION
1/2" = 1'-0"



[REF 1/A3-1 FOR COMPONENTS BELOW GRADE]

3 A3-3 WALL SECTION
1/2" = 1'-0"



[REF 1/A3-1 FOR COMPONENTS BELOW GRADE]

4 A3-3 WALL SECTION
1/2" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

WALL SECTIONS

FOR CONSTRUCTION

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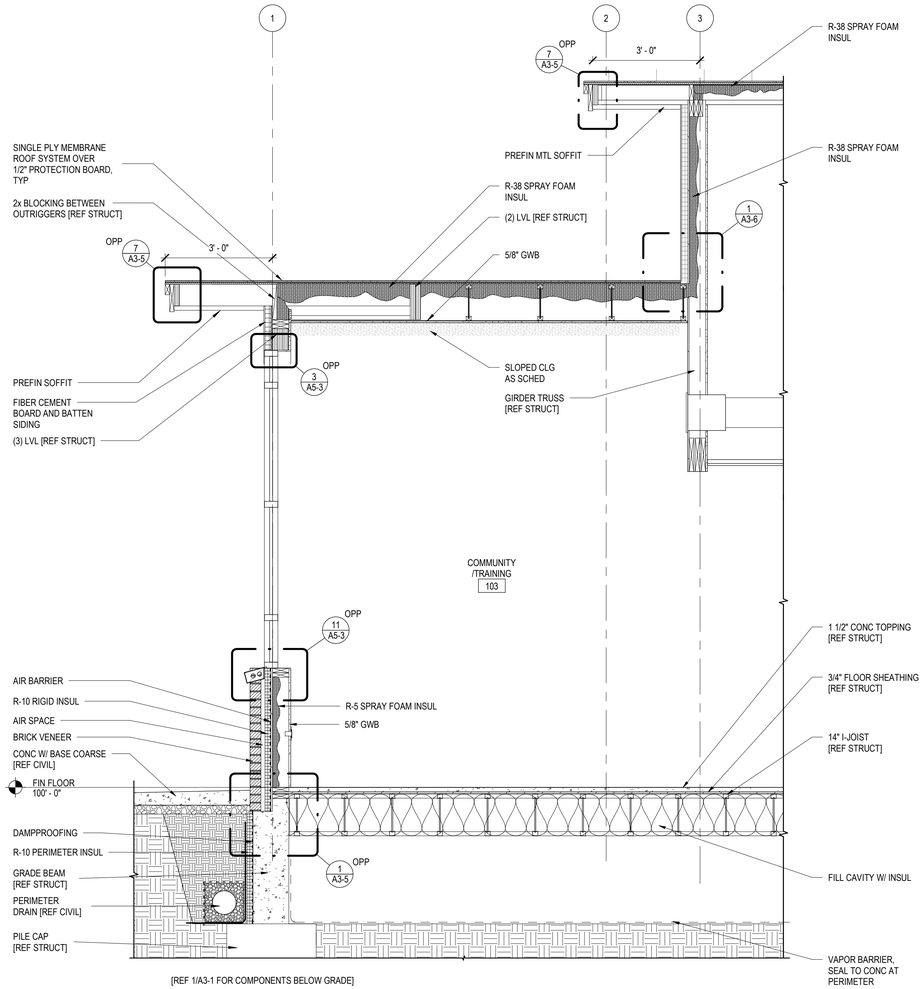
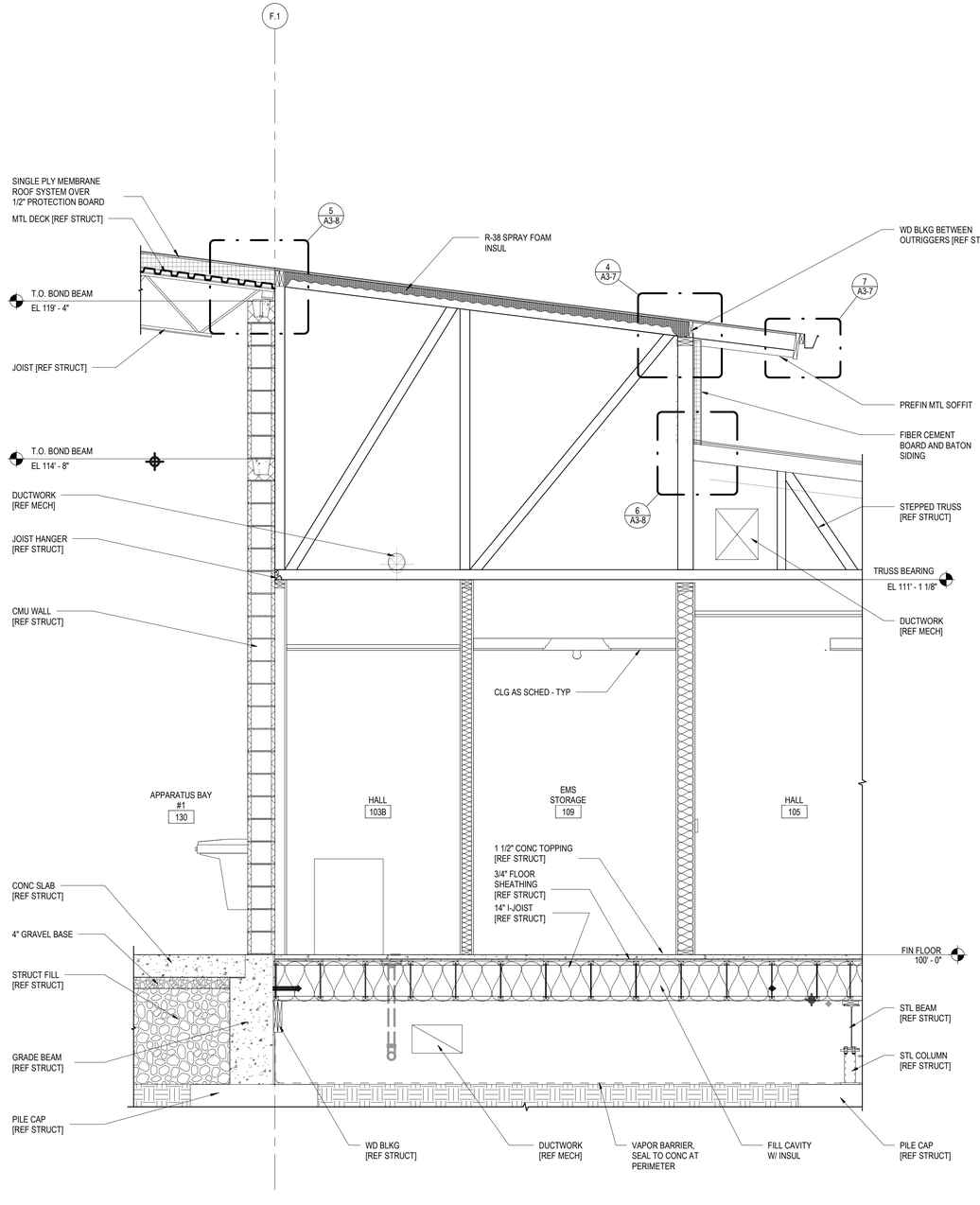


1 A3-4 WALL SECTION
1/2" = 1'-0"



2 A3-4 WALL SECTION
1/2" = 1'-0"

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WALL SECTIONS

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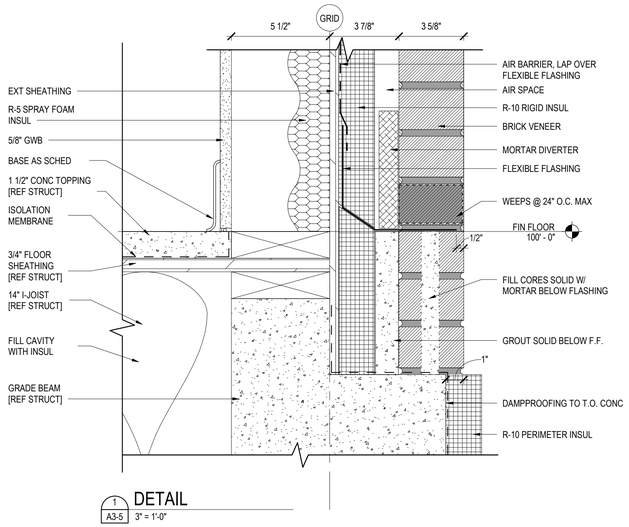
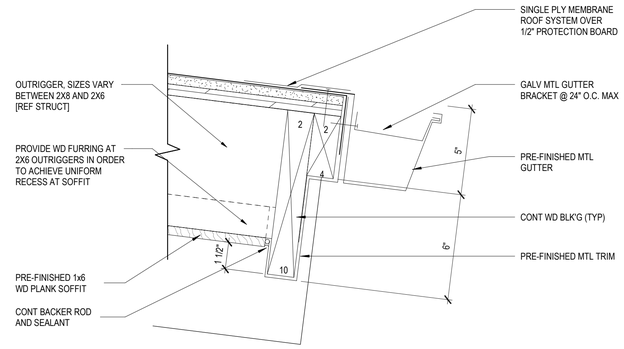
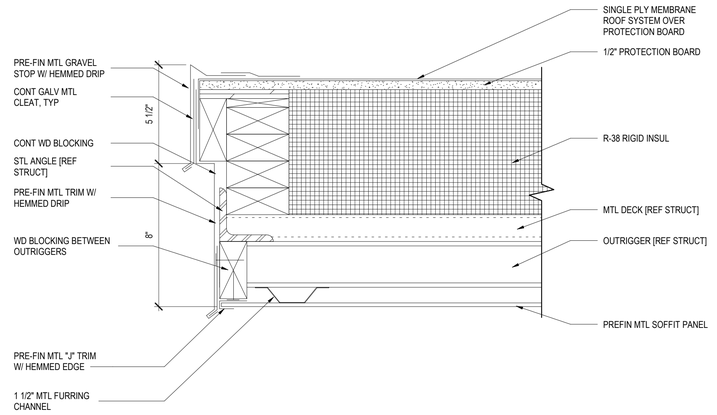


1 A3-5 DETAIL
3" = 1'-0"



2 A3-5 DETAIL
3" = 1'-0"



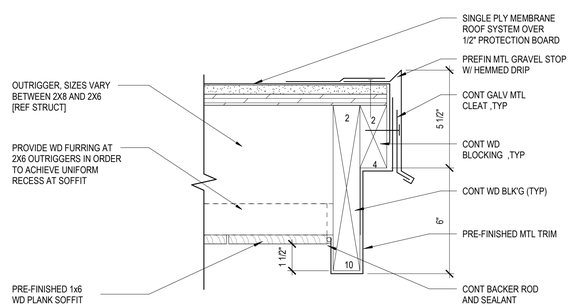
3 A3-5 EAVE AT RAKE
3" = 1'-0"

4 A3-5 DETAIL
3" = 1'-0"

5 A3-5 DETAIL
3" = 1'-0"

8 A3-5 DETAIL AT LOUVER
1 1/2" = 1'-0"

6 A3-5 DETAIL
3" = 1'-0"



7 A3-5 DETAIL
3" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

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EXTERIOR DETAILS

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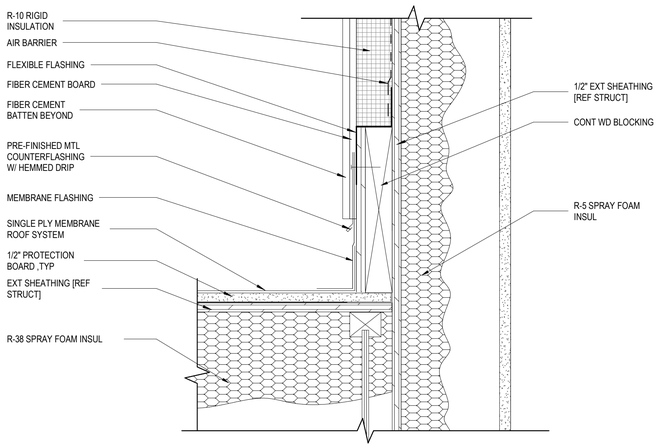
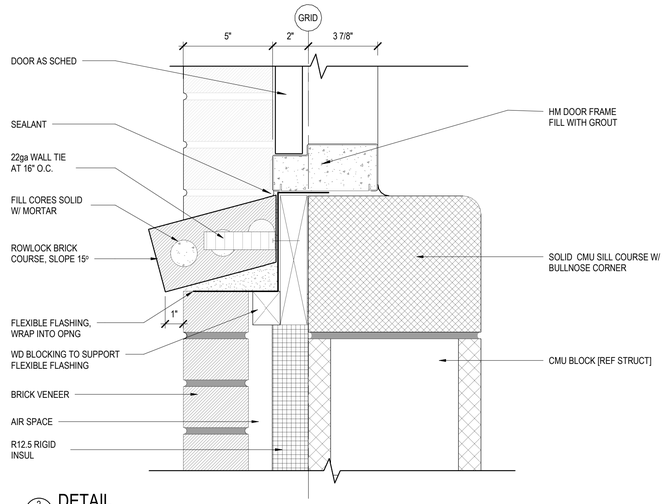
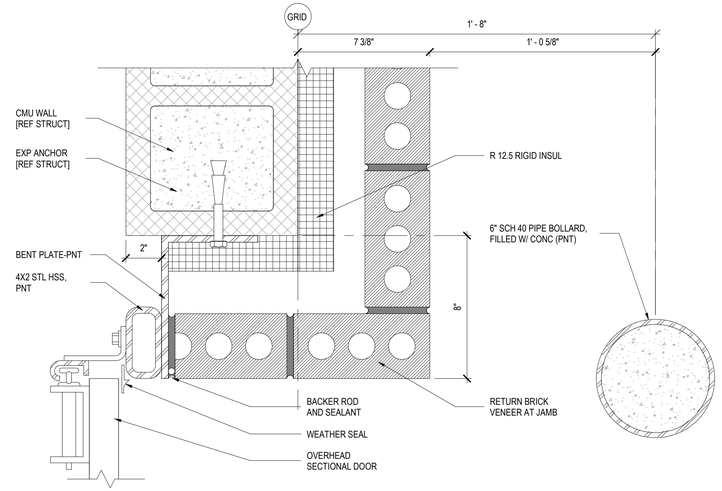


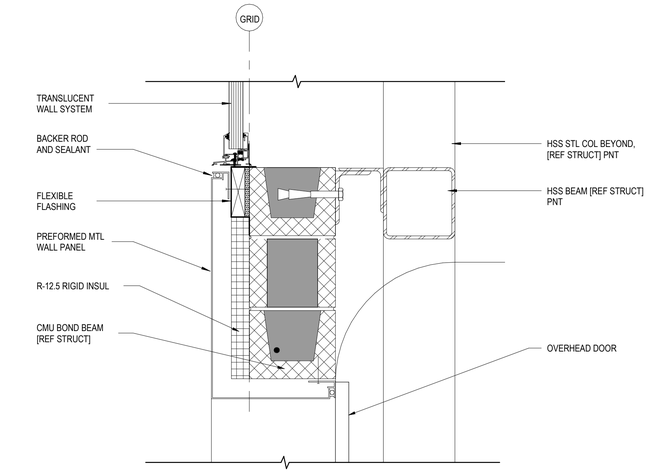
1 A3-6 DETAIL
3" = 1'-0"



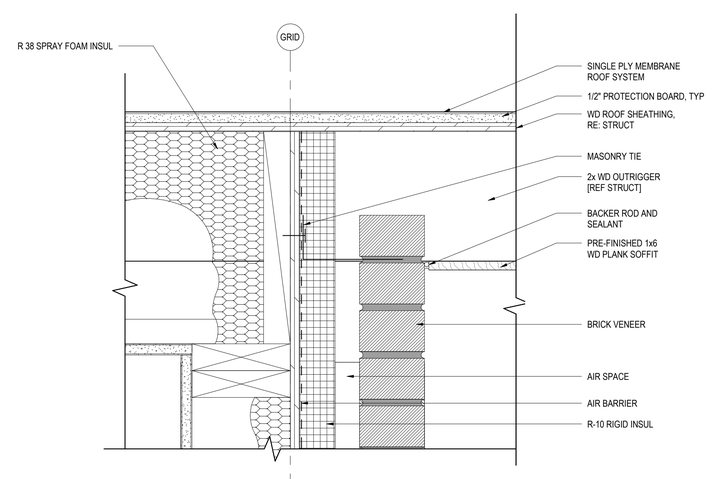
2 A3-6 DETAIL
3" = 1'-0"



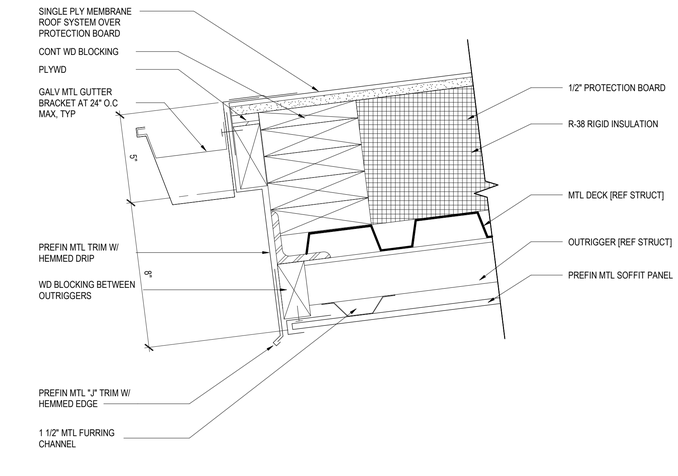
3 A3-6 JAMB AT OVERHEAD DOOR
3" = 1'-0"



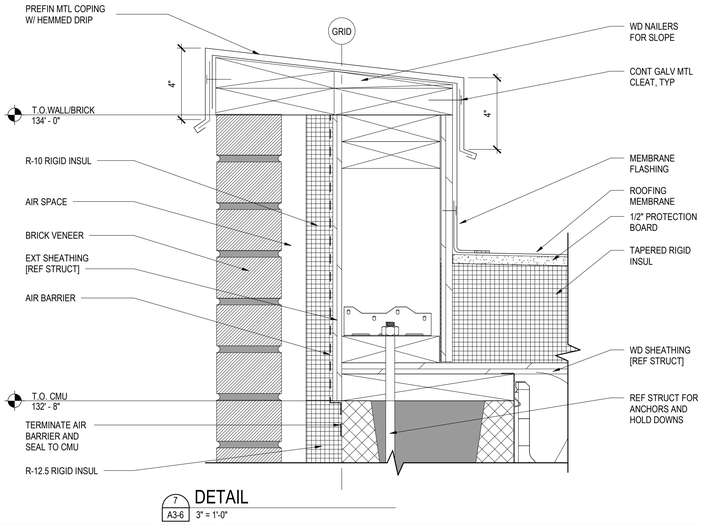
4 A3-6 DETAIL
1 1/2" = 1'-0"



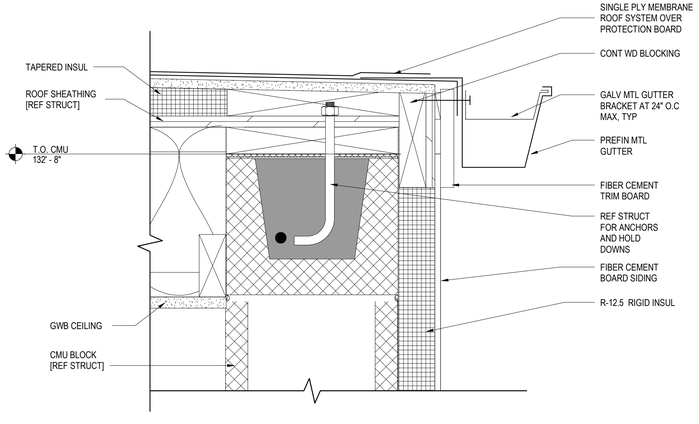
5 A3-6 DETAIL
3" = 1'-0"



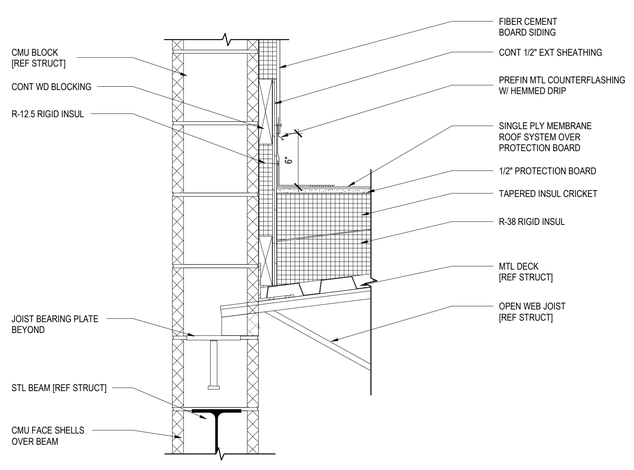
6 A3-6 DETAIL
3" = 1'-0"



7 A3-6 DETAIL
3" = 1'-0"



8 A3-6 DETAIL
3" = 1'-0"



9 A3-6 DETAIL
1 1/2" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

EXTERIOR DETAILS

FOR CONSTRUCTION

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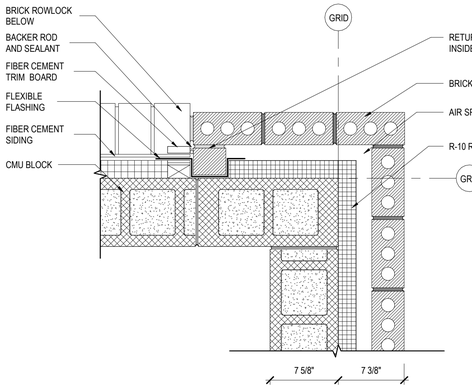
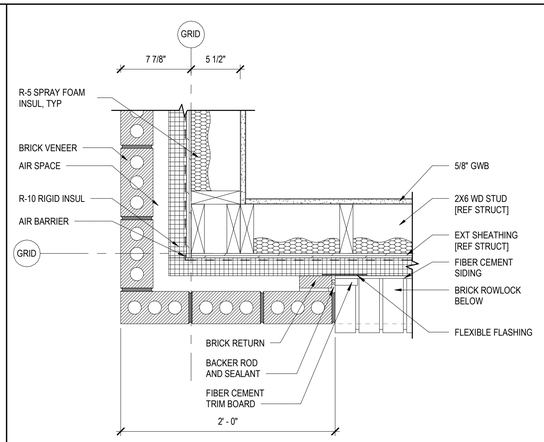
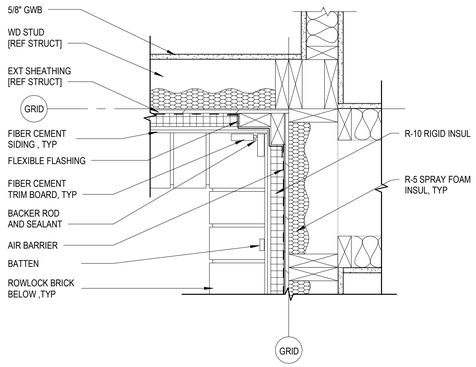


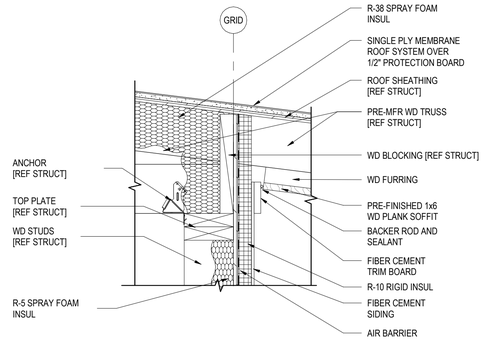
1 A3-7 DETAIL
1 1/2" = 1'-0"



2 A3-7 DETAIL
1 1/2" = 1'-0"



3 A3-7 DETAIL
1 1/2" = 1'-0"



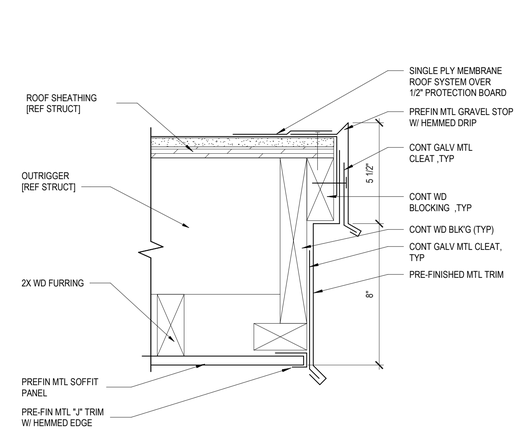
4 A3-7 DETAIL
1 1/2" = 1'-0"

5 A3-7 DETAIL
3" = 1'-0"

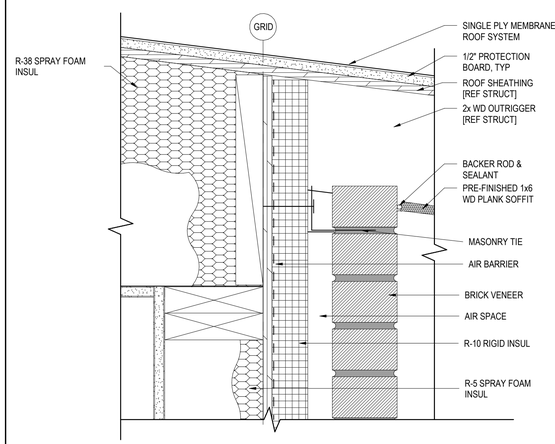
6 A3-7 DETAIL
3" = 1'-0"

7 A3-7 DETAIL
3" = 1'-0"

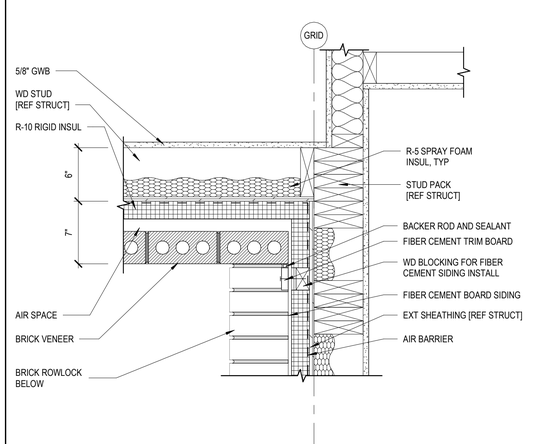
8 A3-7 DETAIL
3" = 1'-0"



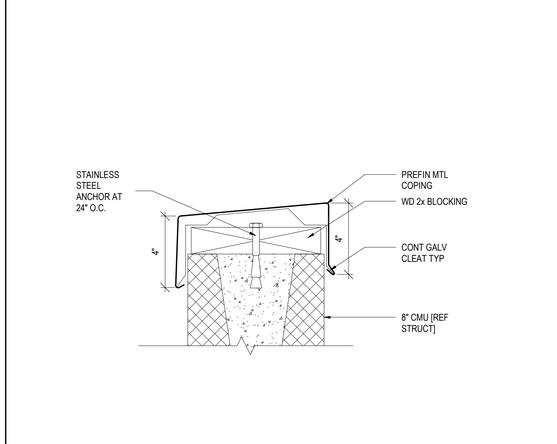
9 A3-7 DETAIL
3" = 1'-0"



10 A3-7 DETAIL
3" = 1'-0"



11 A3-7 DETAIL
1 1/2" = 1'-0"



12 A3-7 DUMPSTER ENCLOSURE CAP DETAIL
3" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

EXTERIOR DETAILS

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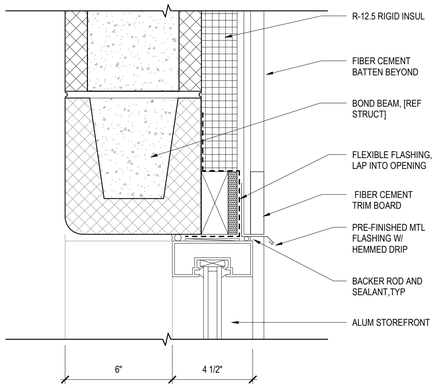
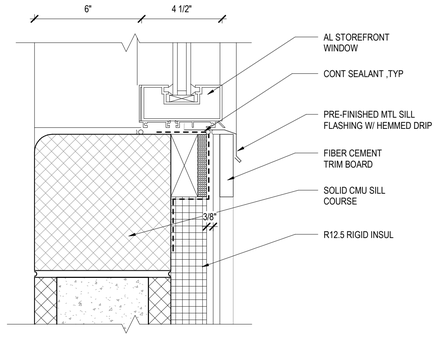
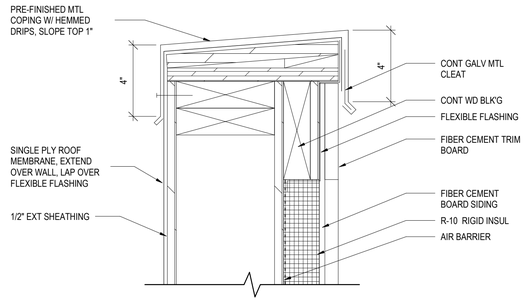
NOTE: JAMB IS SIM



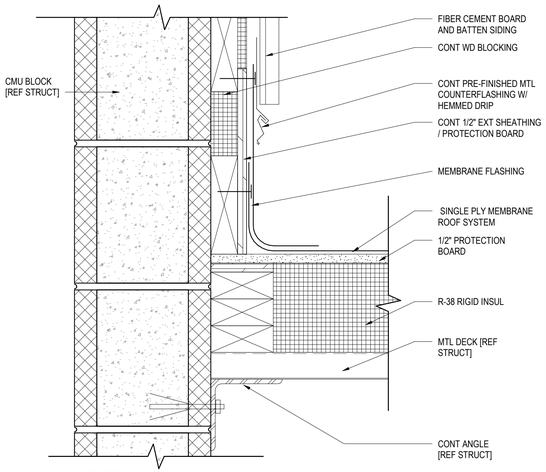
1 A3-8 DETAIL
3" = 1'-0"



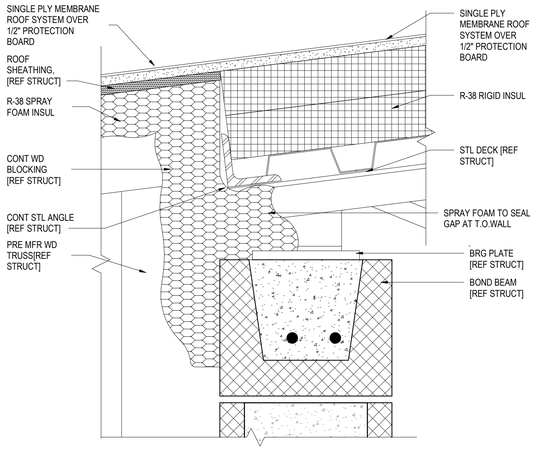
2 A3-8 SILL DETAIL
3" = 1'-0"



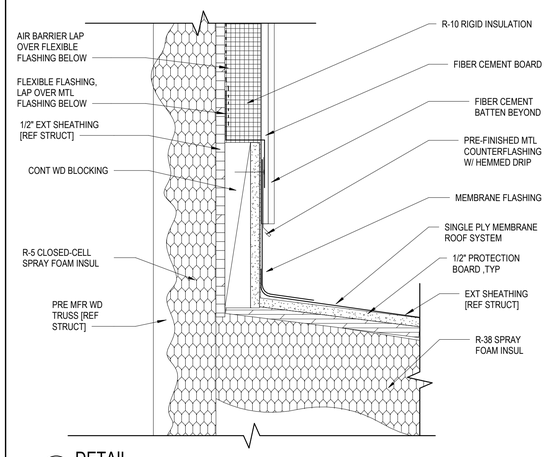
3 A3-8 DETAIL
3" = 1'-0"



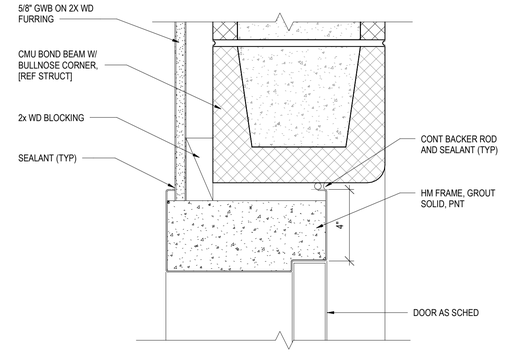
4 A3-8 DETAIL
3" = 1'-0"



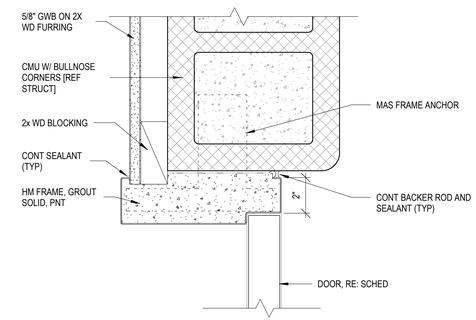
5 A3-8 DETAIL
3" = 1'-0"



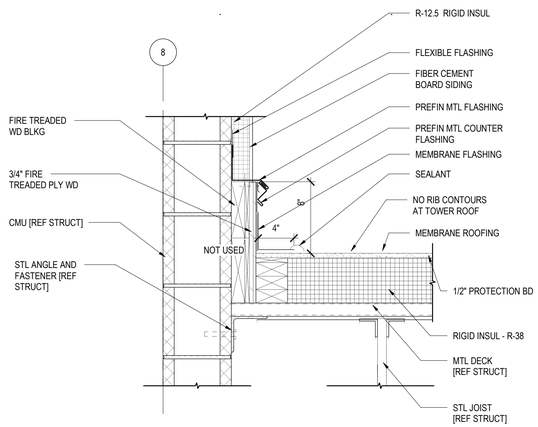
6 A3-8 DETAIL
3" = 1'-0"



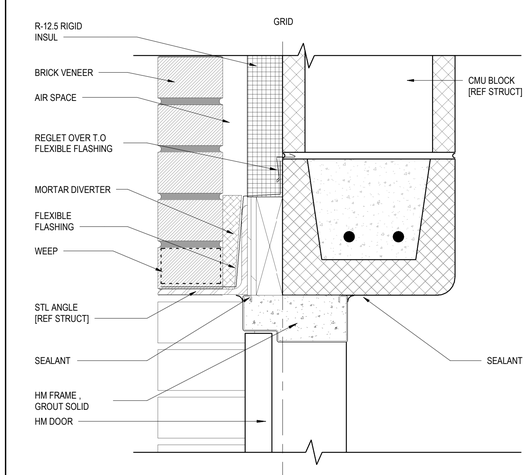
7 A3-8 DOOR HEAD AT FURRED WALL
3" = 1'-0"



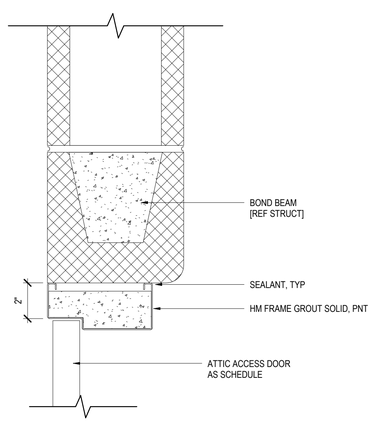
8 A3-8 DOOR JAMB AT FURRED WALL
3" = 1'-0"



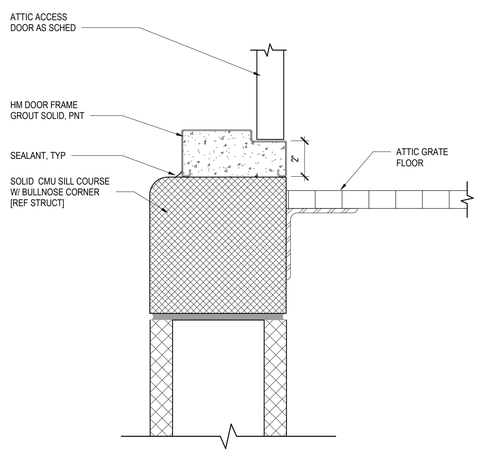
9 A3-8 EXTERIOR DETAIL
1 1/2" = 1'-0"



10 A3-8 DETAIL
3" = 1'-0"



11 A3-8 DOOR HEAD
3" = 1'-0"



12 A3-8 DOOR SILL
3" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

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EXTERIOR DETAILS

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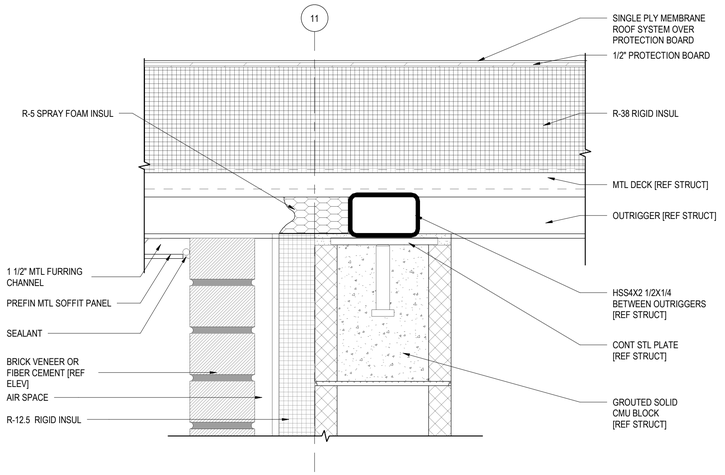
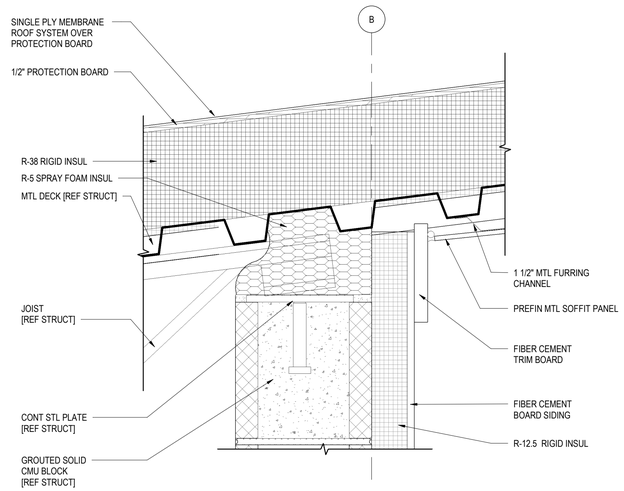
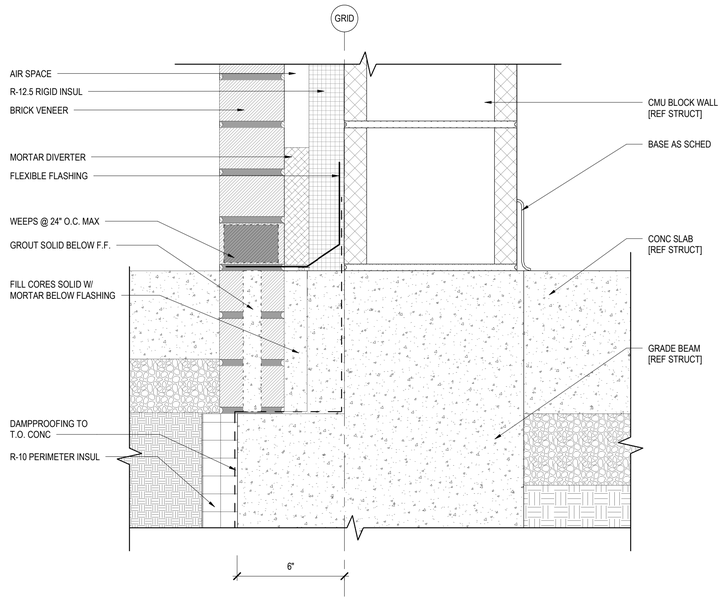


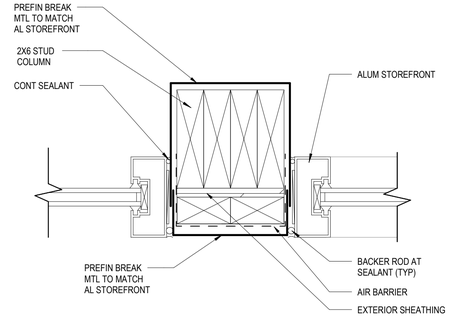
1 A3-9 EXTERIOR DETAIL
3" = 1'-0"



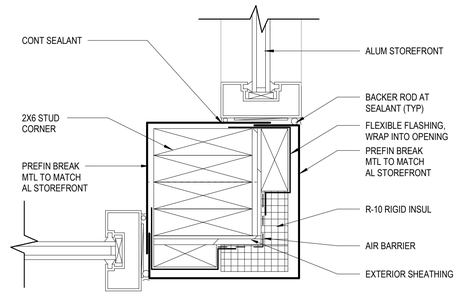
2 A3-9 EXTERIOR DETAIL
3" = 1'-0"



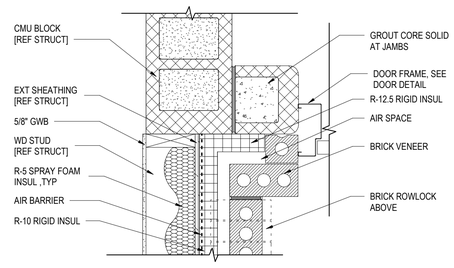
3 A3-9 EXTERIOR DETAIL
3" = 1'-0"



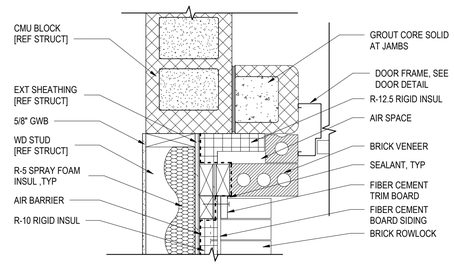
4 A3-9 WINDOW JAMB AT BRAKE MTL
3" = 1'-0"



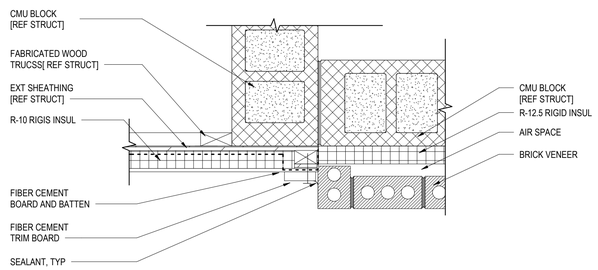
5 A3-9 WINDOW JAMB AT MTL PANEL
3" = 1'-0"



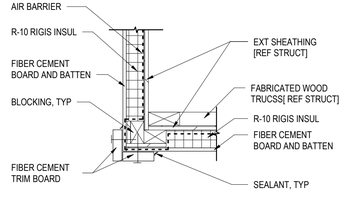
6 A3-9 DETAIL @ BRICK
1 1/2" = 1'-0"



7 A3-9 DETAIL @ FIBER CEMENT SIDING
1 1/2" = 1'-0"



8 A3-9 DETAIL @ FIBER CEMENT SIDING ABOVE LOWER ROOF
1 1/2" = 1'-0"



9 A3-9 DETAIL @ FIBER CEMENT SIDING CORNER
1 1/2" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

EXTERIOR DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

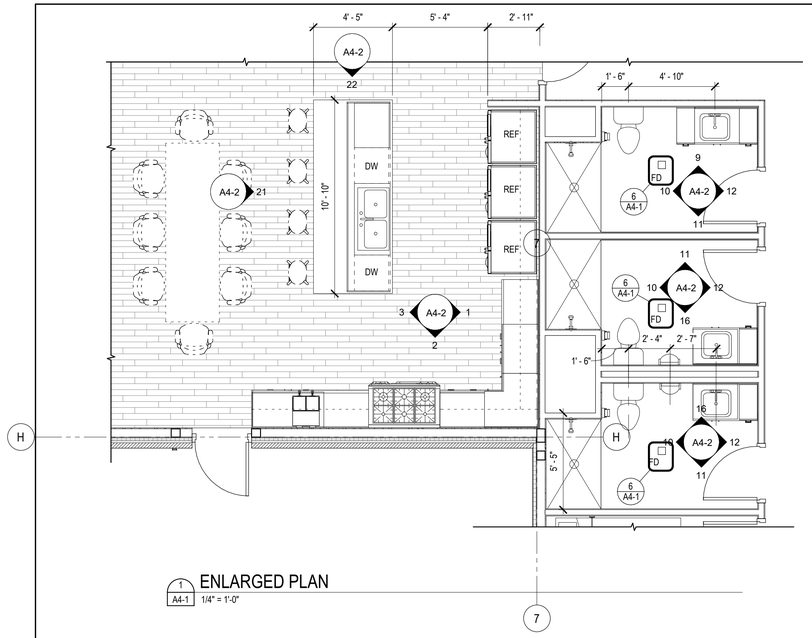
DATE: 2/25/2021

PROJECT #: 2072

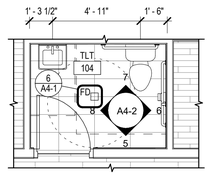
SHEET #:

A3-9

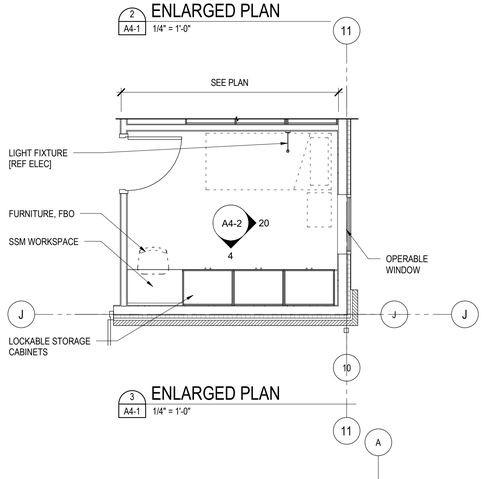
Project Team:
Print Date: 2/25/2021 3:03:08 PM



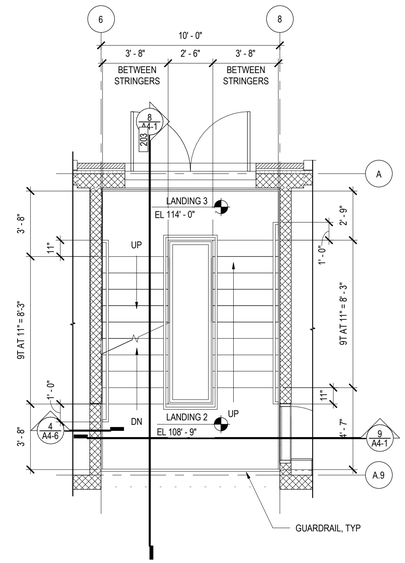
1 A4-1 ENLARGED PLAN
1/4" = 1'-0"



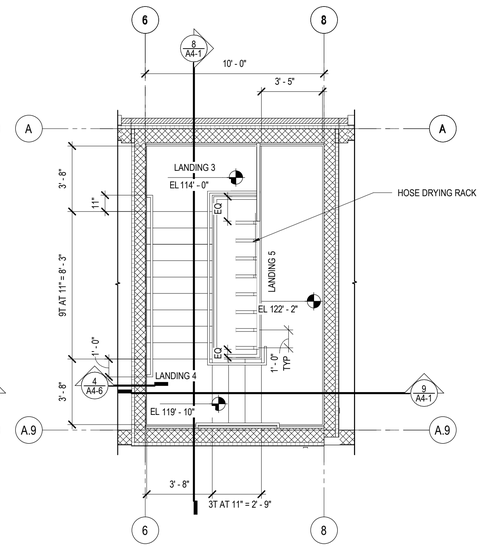
2 A4-1 ENLARGED PLAN
1/4" = 1'-0"



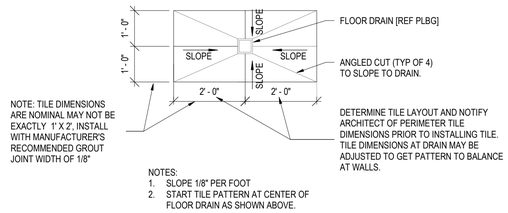
3 A4-1 ENLARGED PLAN
1/4" = 1'-0"



4 A4-1 STAIR
1/4" = 1'-0"

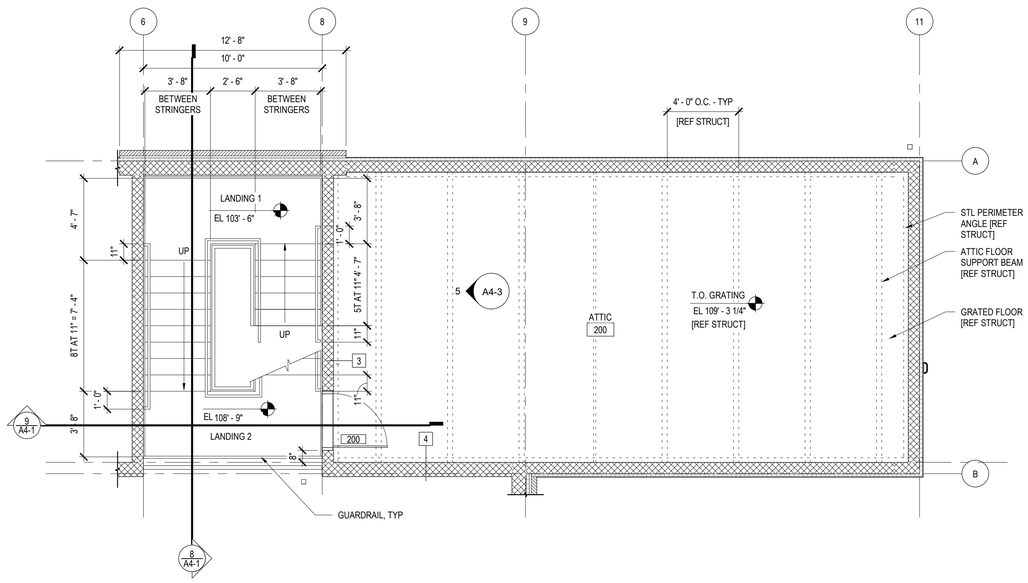


5 A4-1 STAIR
1/4" = 1'-0"

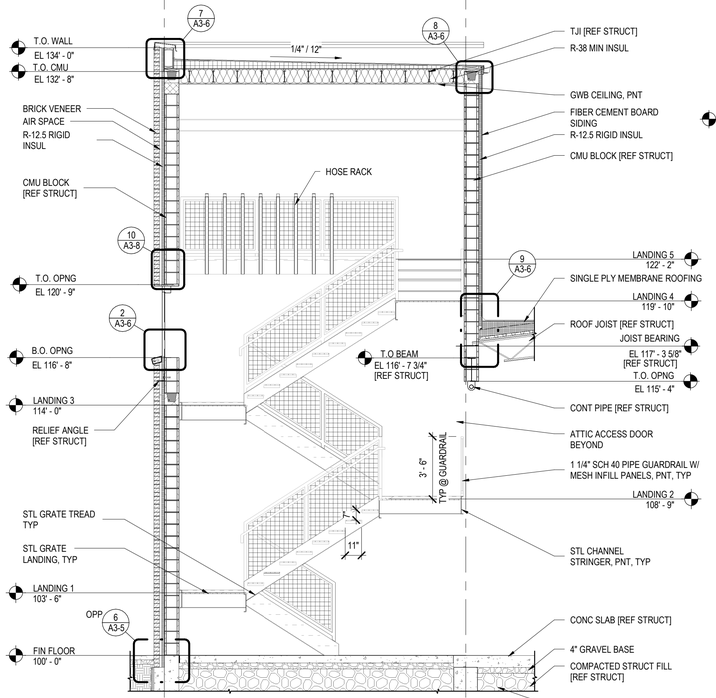


NOTES:
1. SLOPE 1/8" PER FOOT
2. START TILE PATTERN AT CENTER OF FLOOR DRAIN AS SHOWN ABOVE.

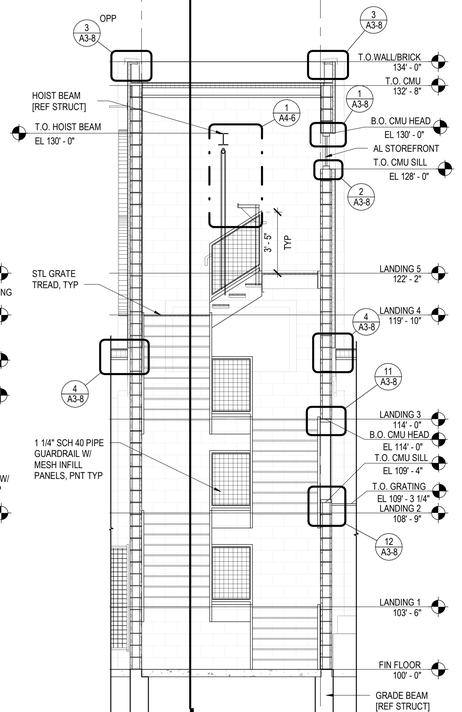
6 A4-1 FLOOR DRAIN
1/2" = 1'-0"



7 A4-1 STAIR/ATTIC
1/4" = 1'-0"



8 A4-1 SECTION
1/4" = 1'-0"



9 A4-1 SECTION
1/4" = 1'-0"

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ENLARGED FLOOR PLANS

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A4-1

Project Team:

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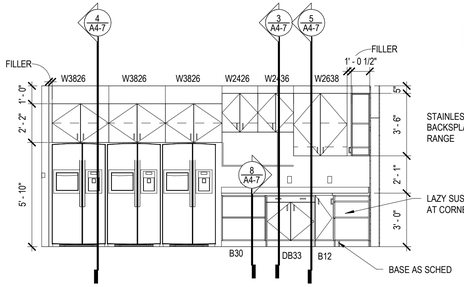
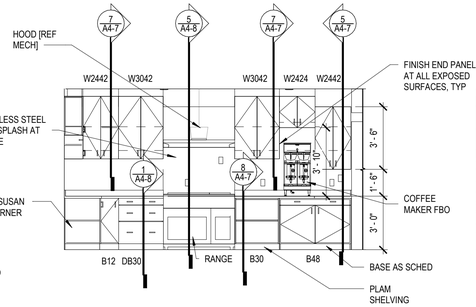
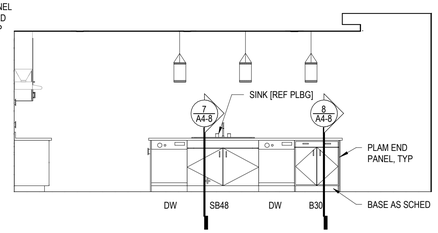


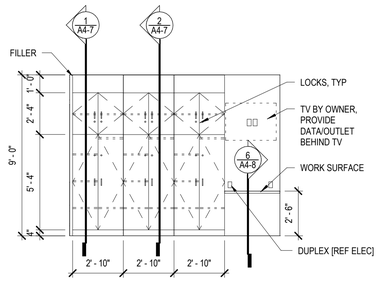
1 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



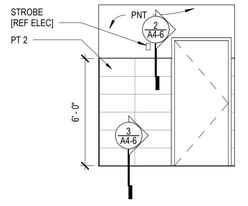
2 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



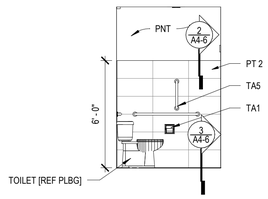
3 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



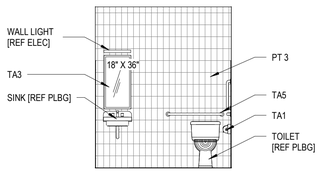
4 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



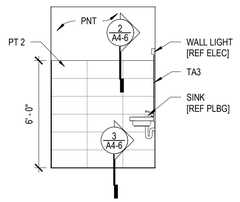
5 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



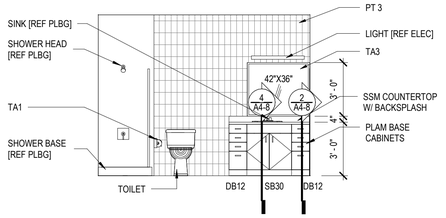
6 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



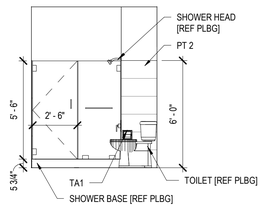
7 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



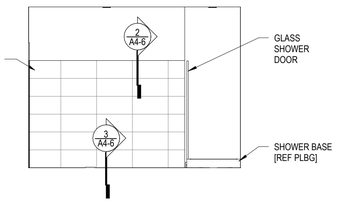
8 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



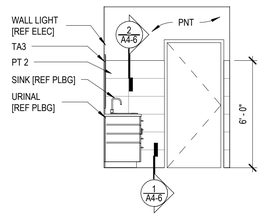
9 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



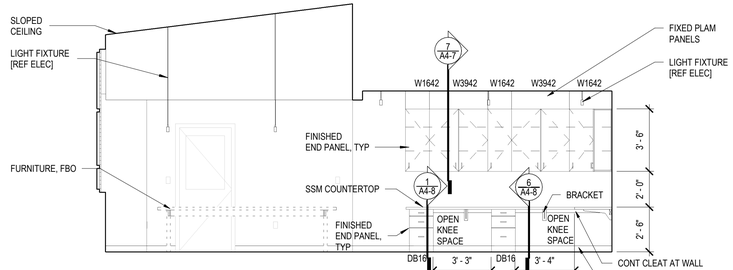
10 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



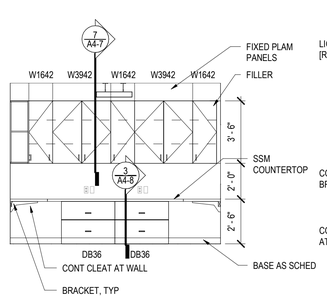
11 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



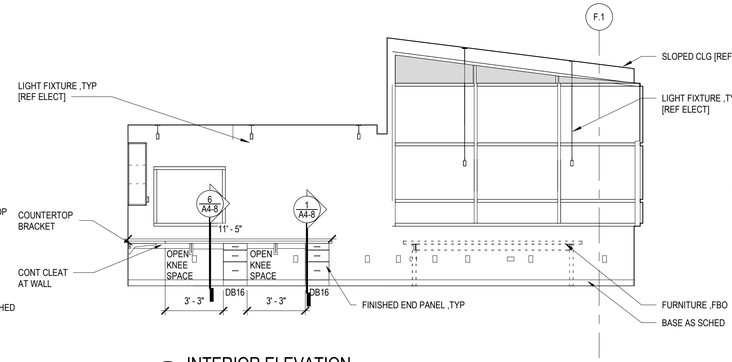
12 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



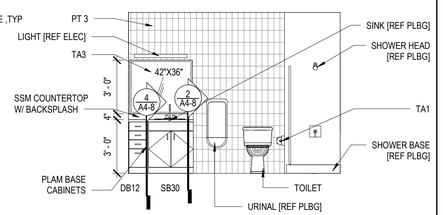
13 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



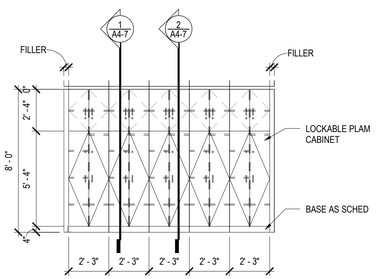
14 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



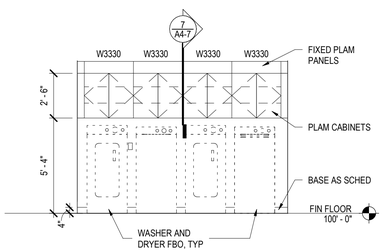
15 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



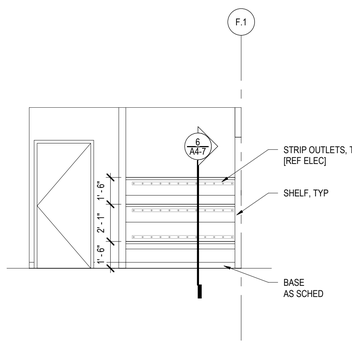
16 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



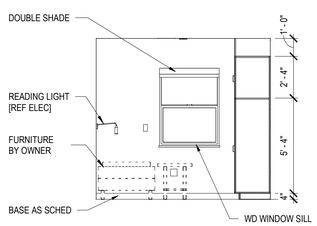
17 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



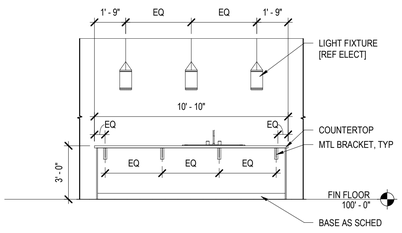
18 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



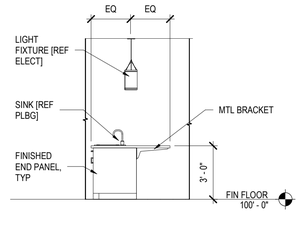
19 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



20 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



21 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"



22 A4-2 INTERIOR ELEVATION
1/4" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

INTERIOR ELEVATIONS

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2/25/2021

PROJECT #: 2072

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A4-2

Project Team:

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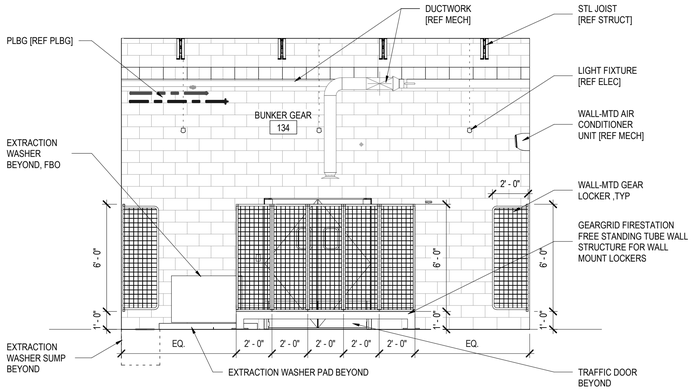
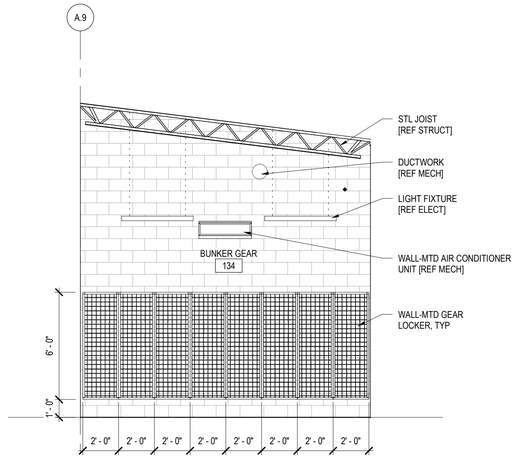
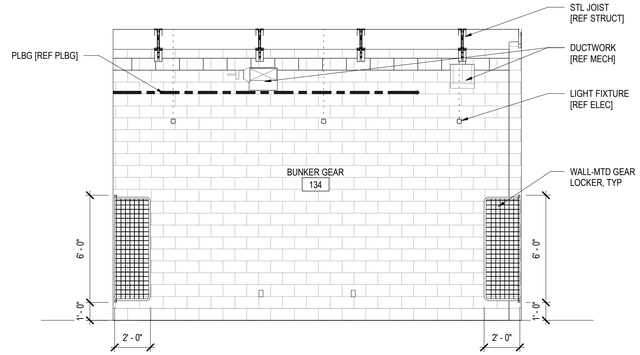


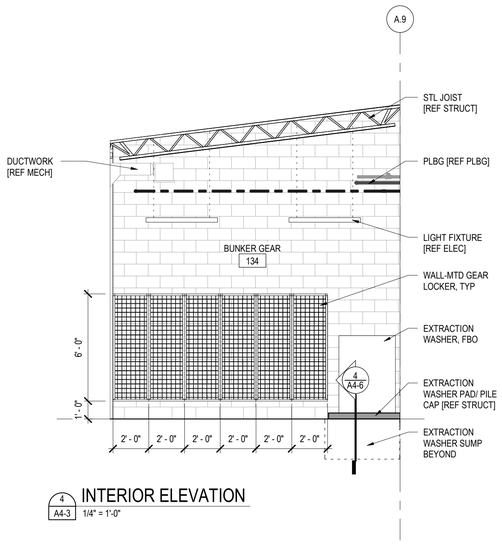
1 A4-3 INTERIOR ELEVATION
1/4" = 1'-0"



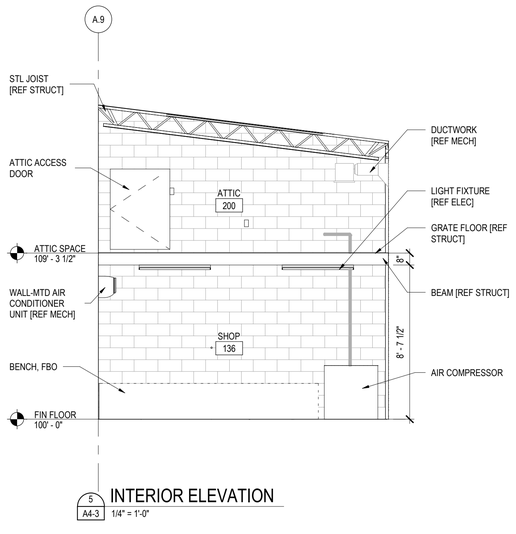
2 A4-3 INTERIOR ELEVATION
1/4" = 1'-0"



3 A4-3 INTERIOR ELEVATION
1/4" = 1'-0"



4 A4-3 INTERIOR ELEVATION
1/4" = 1'-0"



5 A4-3 INTERIOR ELEVATION
1/4" = 1'-0"

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INTERIOR ELEVATIONS

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REV. DESC. DATE:

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A4-3

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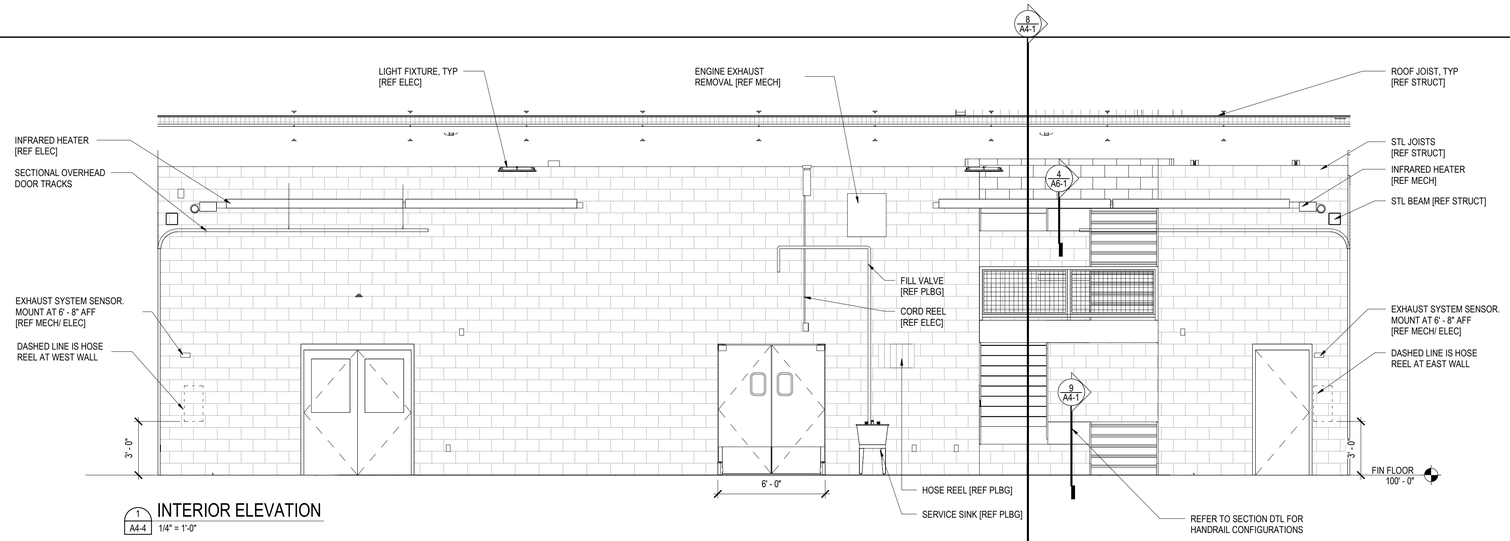
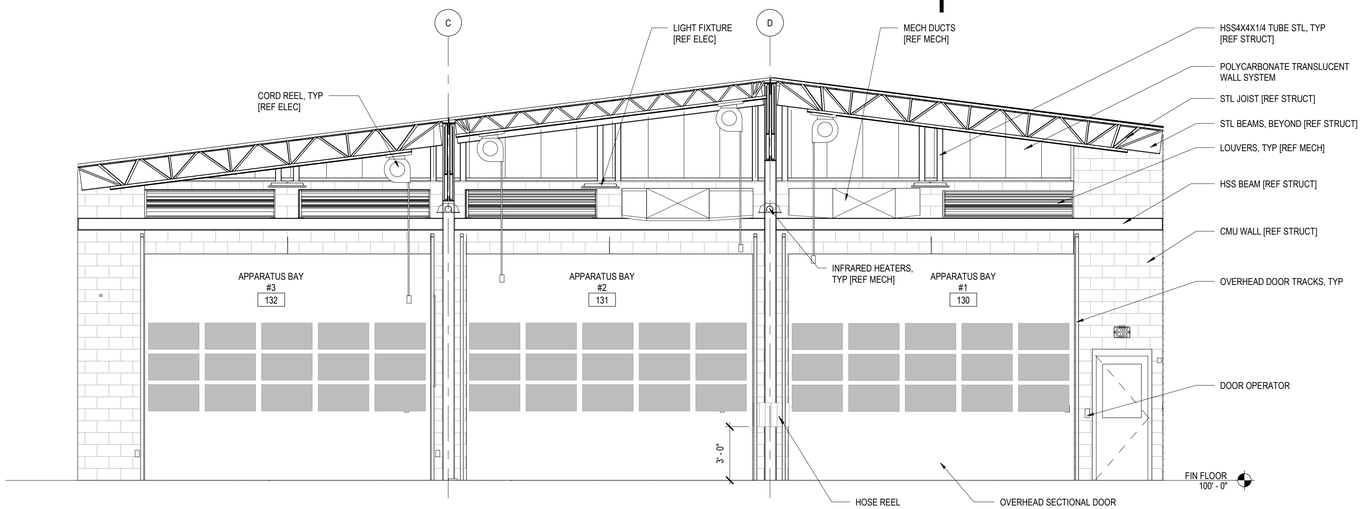
Print Date: 2/25/2021 3:03:22 PM



1 A4-4 INTERIOR ELEVATION
1/4" = 1'-0"



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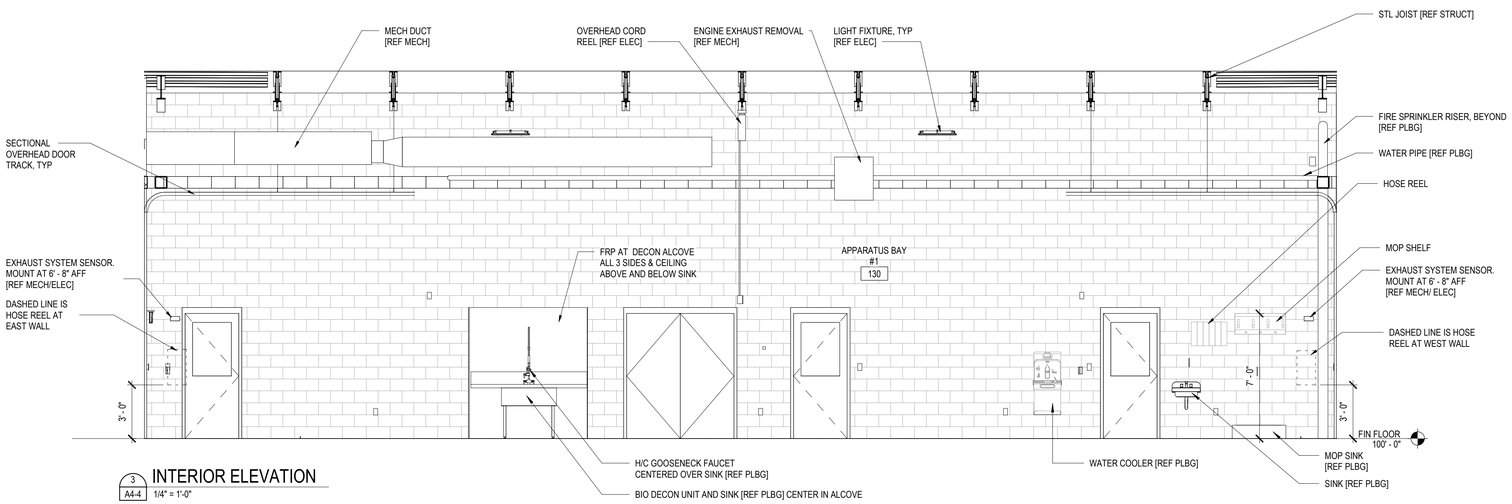

3 A4-4 INTERIOR ELEVATION
1/4" = 1'-0"

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INTERIOR ELEVATIONS

FOR CONSTRUCTION

REV.	DESC.	DATE:

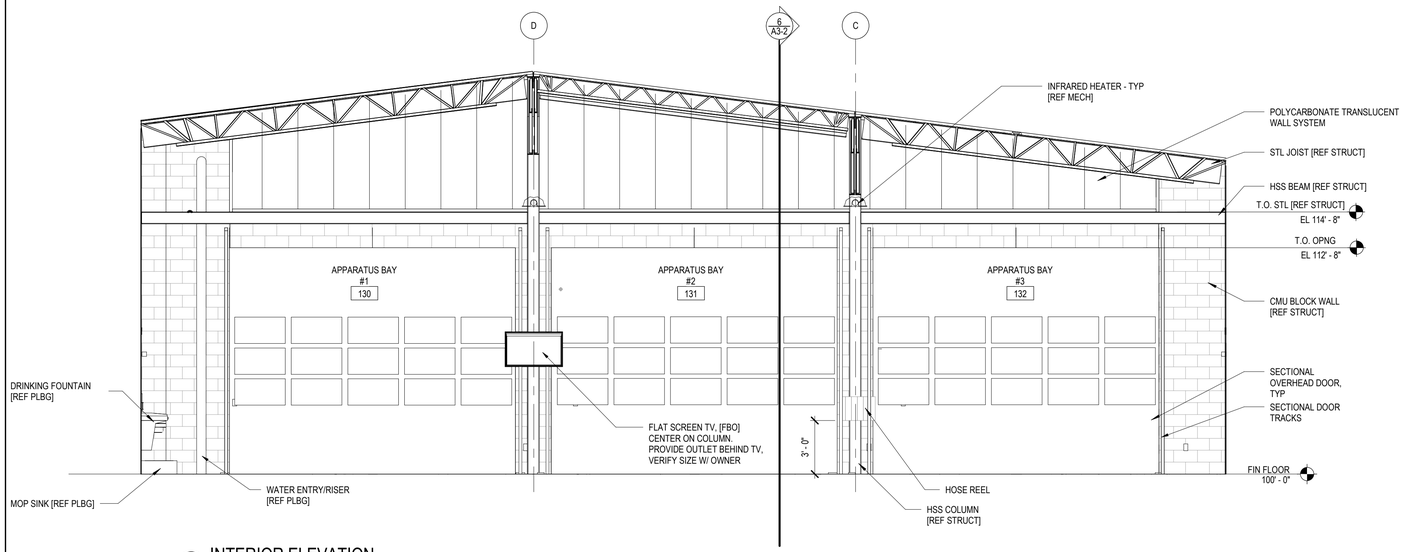
DATE: 2/25/2021

PROJECT #: 2072

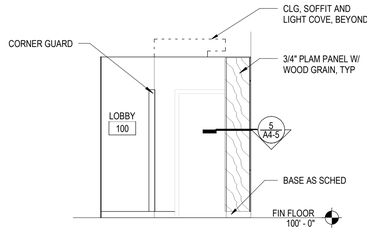
SHEET #:

A4-4

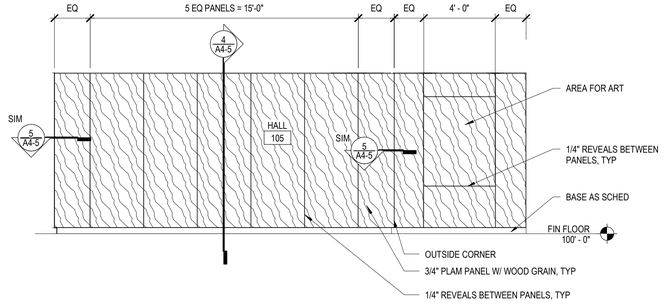
Project Team:
Print Date: 2/25/2021 4:01:36 PM



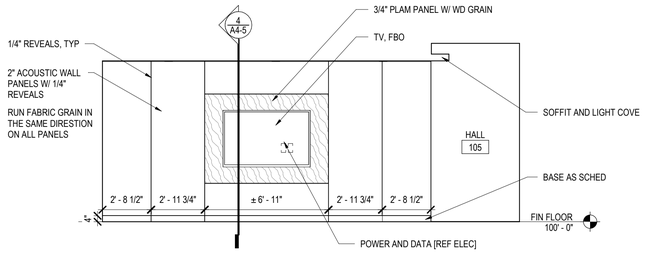
1 A4-5 INTERIOR ELEVATION
1/4" = 1'-0"



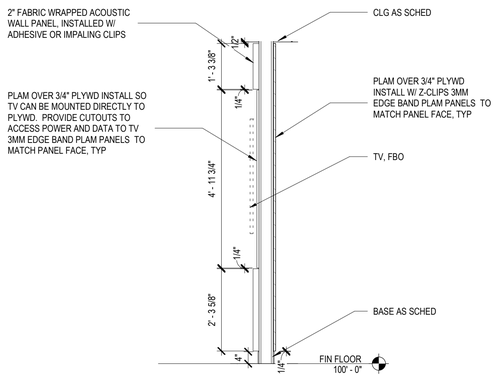
2 A4-5 INTERIOR ELEVATION
1/4" = 1'-0"



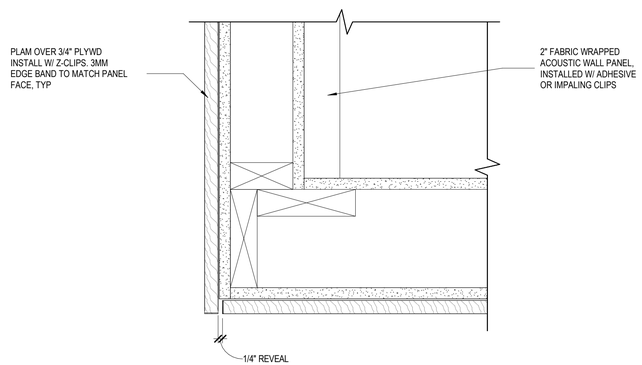
3 A4-5 INTERIOR ELEVATION
1/4" = 1'-0"



6 A4-5 INTERIOR ELEVATION
1/4" = 1'-0"



4 A4-5 SECTION
1/2" = 1'-0"



5 A4-5 DETAIL
3" = 1'-0"

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DATE: 2/25/2021

PROJECT #: 2072

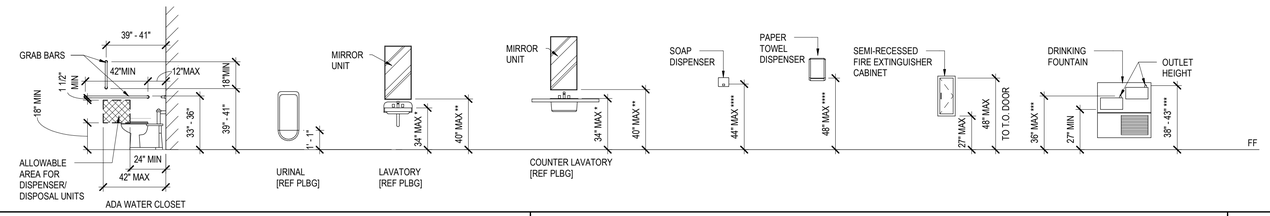
SHEET #:

A4-5

Project Team:

Print Date: 2/25/2021 3:03:26 PM

TYPICAL MOUNTING HEIGHTS



*DIMENSION IS TO RIM OF FIXTURE

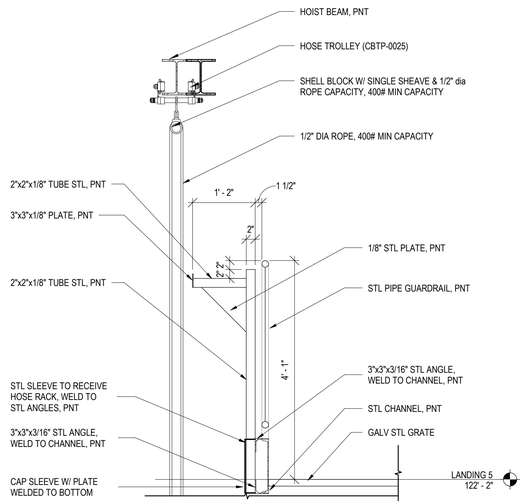
** DIMENSION IS TO BOTTOM EDGE OF REFLECTING SURFACE

*** DIMENSION IS TO T.O. SPOUT OUTLET

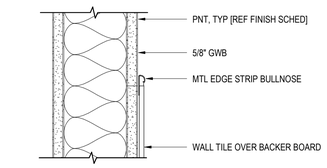
**** DIMENSION IS TO T.O. OPERABLE PARTS

NOTES:
1. ALL FIXTURES AND TOILET ACCESSORIES SHOWN ON THIS DETAIL ARE FOR REFERENCE OF MOUNTING HEIGHT ONLY. ALL FIXTURES AND ACCESSORIES ARE TO BE MOUNTED AT BARRIER FREE HEIGHTS AS RECOMMENDED BY MANUFACTURER'S SPECIFICATIONS.
2. ALL FIXTURES AND TOILET ACCESSORIES REQUIRED FOR THIS PROJECT MAY NOT APPEAR ON THIS DETAIL. ALL ITEMS SHOWN ON THIS DETAIL MAY NOT BE REQUIRED FOR THIS PROJECT.

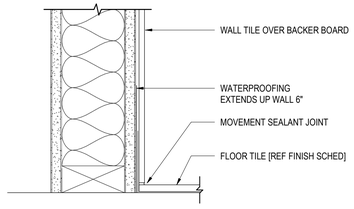
TA1	TOILET PAPER DISPENSER
TA2	SOAP DISPENSER
TA3	MIRROR
TA4	NAPKIN DISPENSER
TA5	GRAB BARS
TA6	PAPER TOWEL DISPENSER



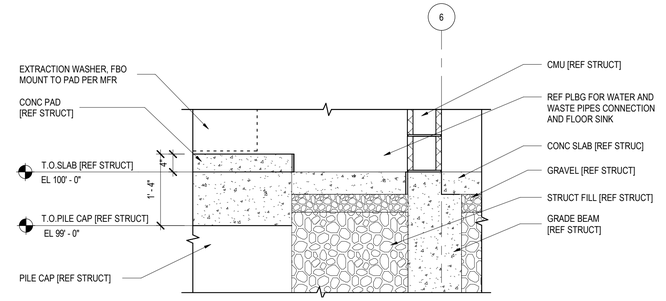
1 A4-6 HOSE DRYING RACK
3/4" = 1'-0"



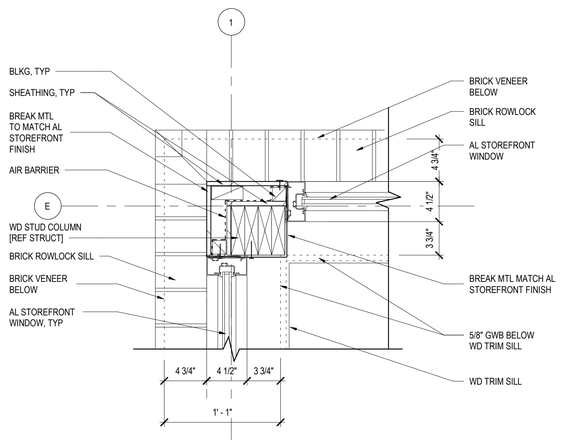
2 A4-6 TOP OF TILE DETAIL
3" = 1'-0"



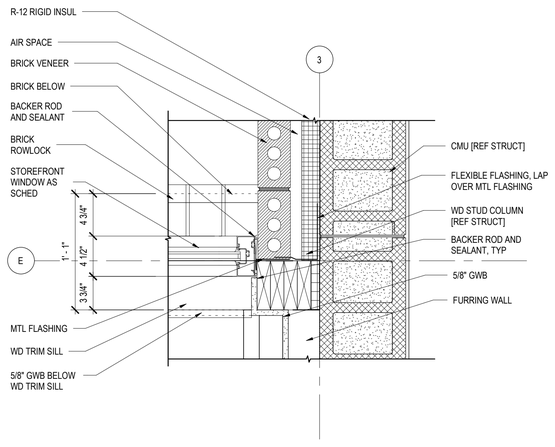
3 A4-6 TILE BASE DETAIL
3" = 1'-0"



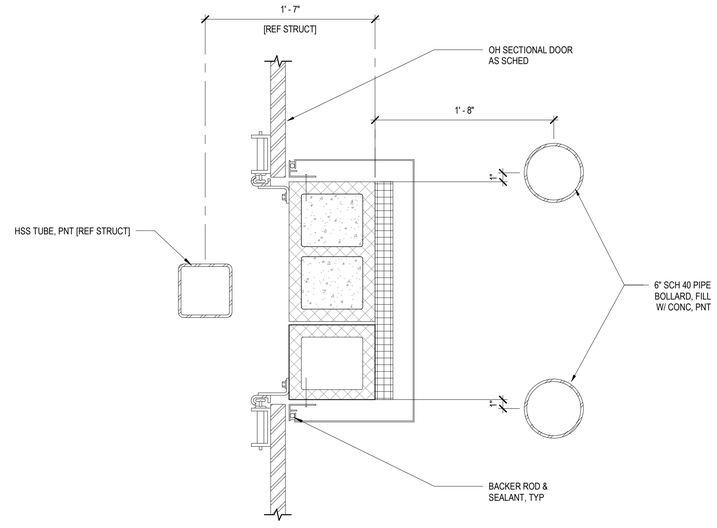
4 A4-6 DETAIL AT EXTRACTION WASHER PAD
3/4" = 1'-0"



5 A4-6 CORNER MULLION DETAIL
1 1/2" = 1'-0"



6 A4-6 WINDOW JAMB DETAIL
1 1/2" = 1'-0"



7 A4-6 FORMED PANEL
1 1/2" = 1'-0"

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

GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

INTERIOR DETAILS

FOR CONSTRUCTION

REV.	DESC.	DATE:

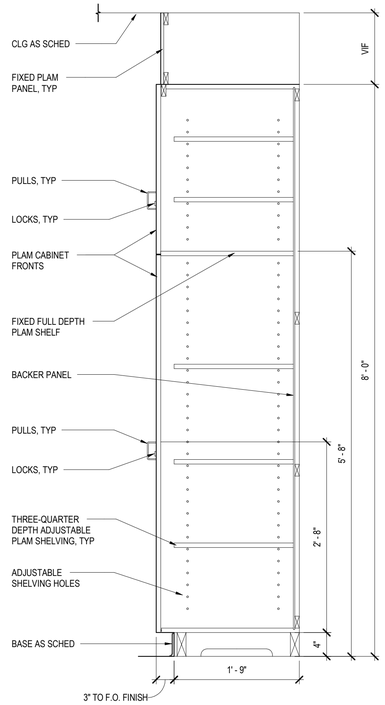
DATE: 2/25/2021

PROJECT #: 2072

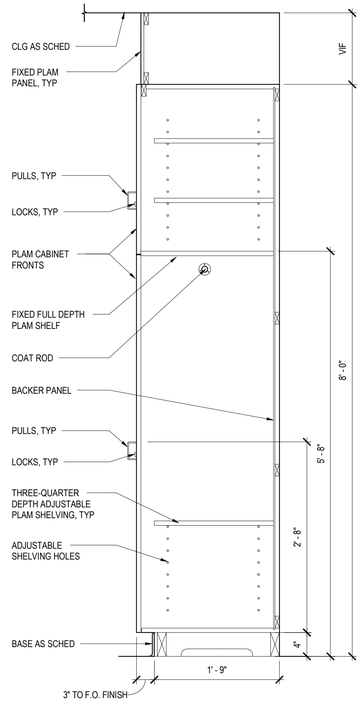
SHEET #:

A4-6

Project Team:
Print Date: 2/25/2021 3:03:28 PM



1 A4-7 SECTION - CASEWORK
1" = 1'-0"



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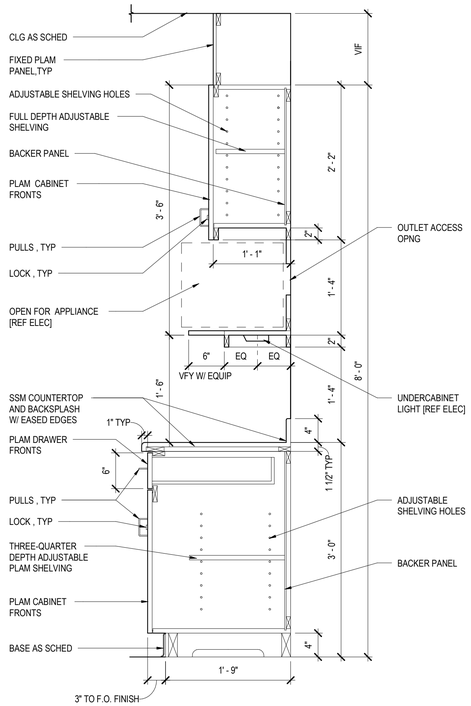
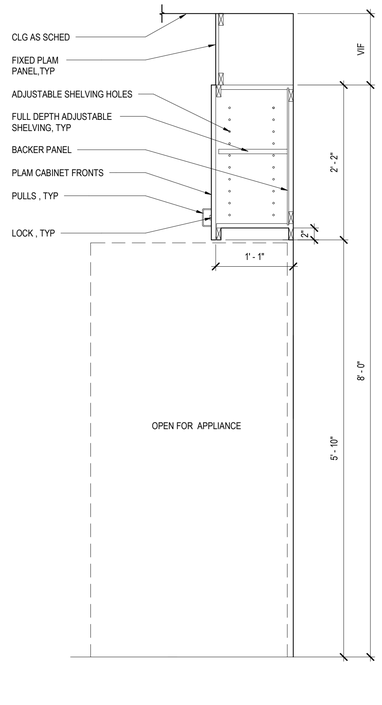
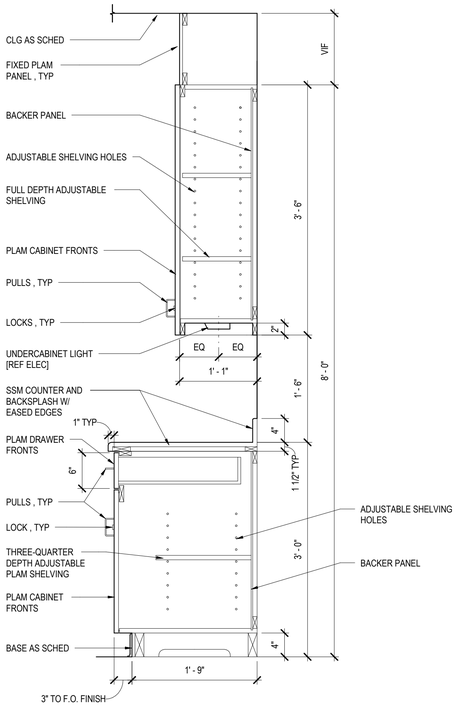


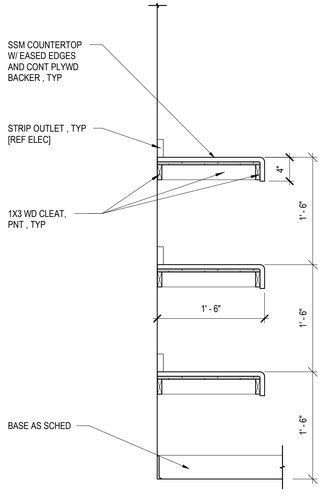
3 A4-7 SECTION - CASEWORK
1" = 1'-0"



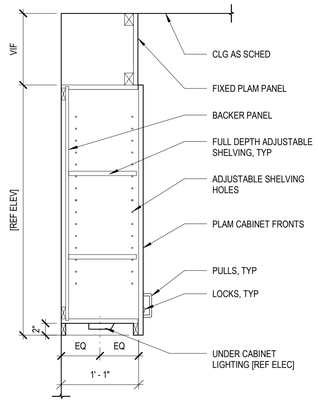
4 A4-7 SECTION - CASEWORK
1" = 1'-0"



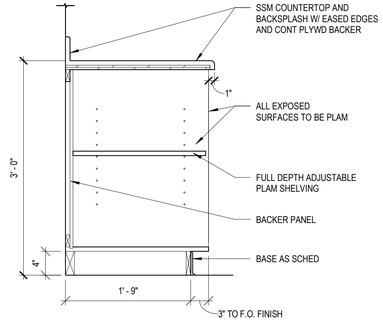
5 A4-7 SECTION - CASEWORK
1" = 1'-0"



6 A4-7 SECTION - CASEWORK
1" = 1'-0"



7 A4-7 SECTION - CASEWORK
1" = 1'-0"



8 A4-7 SECTION - CASEWORK
1" = 1'-0"

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BLYTHE GROUP + co.

GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

CASEWORK DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

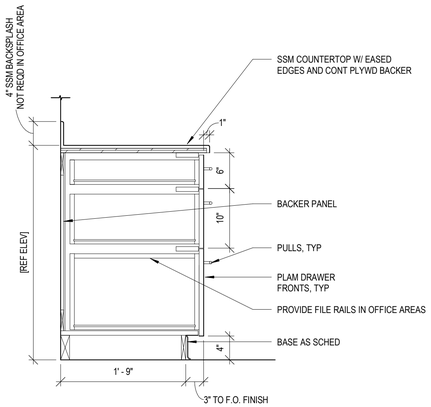
DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A4-7

Project Team:
Print Date: 2/25/2021 3:03:29 PM



1 A4-8 SECTION - CASEWORK
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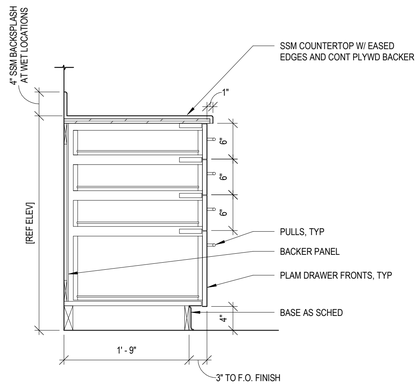

2 A4-8 SECTION - CASEWORK
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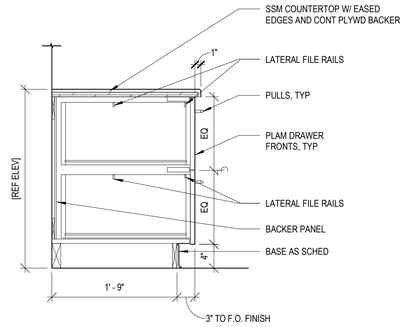

3 A4-8 SECTION - CASEWORK
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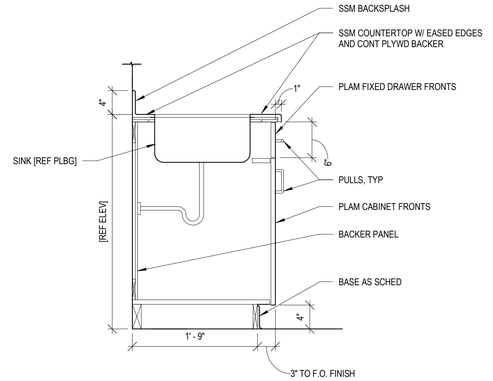
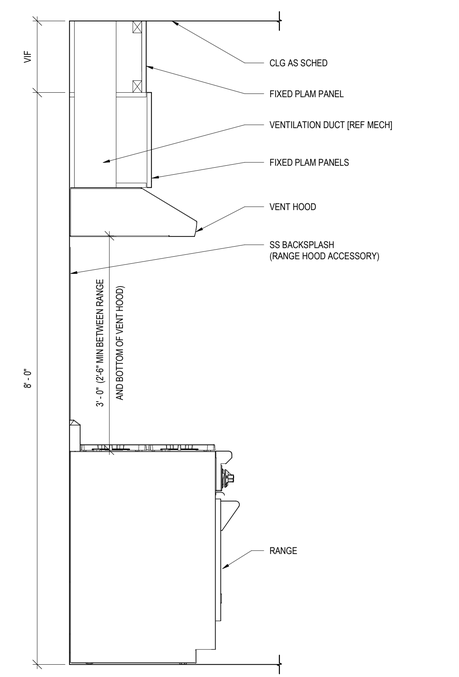
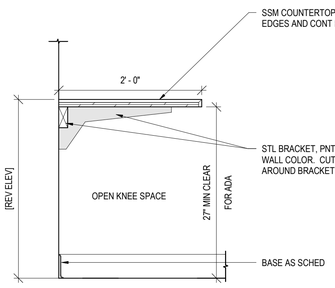


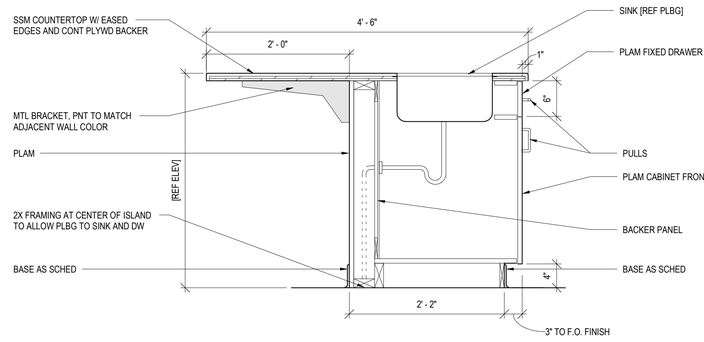
4 A4-8 SECTION - CASEWORK
1" = 1'-0"



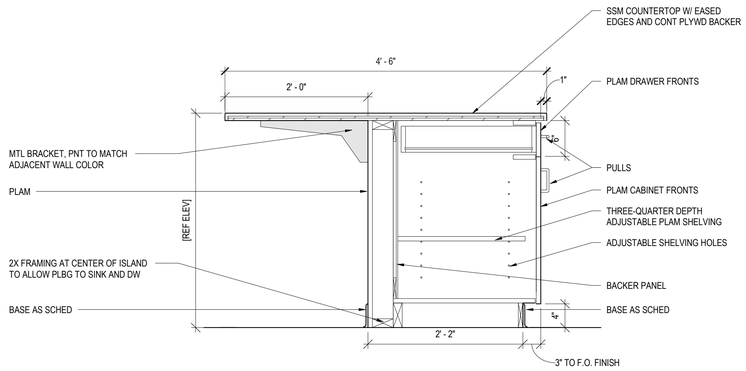
5 A4-8 SECTION - CASEWORK
1" = 1'-0"



6 A4-8 SECTION - CASEWORK
1" = 1'-0"



7 A4-8 SECTION - CASEWORK
1" = 1'-0"



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JUNCTION, COLORADO 81505

CASEWORK DETAILS

FOR CONSTRUCTION

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DOOR SCHEDULE

	DOOR SIZE		DOOR TYPE						FRAME TYPE							SIGNAGE	
DOOR NUMBER	WIDTH	HEIGHT	TYPE	MATL	GLAZING	FINISH	RATING	HDW GROUP	TYPE	MATL	FINISH	JAMB DETAIL	HEAD DETAIL	SILL / THRESHOLD	COMMENTS	SIGN TYPE	TEXT
100	3' - 0"	7' - 0"	F	AL	GL-2	FF	- -	AL-01	3	AL	FF	8/A5-3 SIM	3/A5-3	13/A5-4	1, 2	B	EXIT
101	3' - 0"	7' - 0"	F	WD	GL-4	FF	- -	03	1	HM	PNT	1/A5-4	2/A5-4	- -		C	OFFICE 101 [INSERT TBD]
103	3' - 0"	7' - 0"	A	WD	- -	FF	- -	03	1	HM	PNT	1/A5-4	2/A5-4	- -			OFFICE 102/TRAINING [INSERT TBD]
103A	3' - 0"	7' - 0"	D	WD	GL-4	FF	- -	06	1	HM	PNT	1/A5-4	2/A5-4	- -			
103B	3' - 0"	7' - 0"	D	HM	GL-4	PNT	- -	07	4	HM	PNT	8/A3-8	7/A3-8	14/A5-4			
104	3' - 0"	7' - 0"	A	WD	- -	FF	- -	04	1	HM	PNT	1/A5-4	2/A5-4	- -		A	
107	3' - 0"	7' - 0"	F	AL	GL-2	FF	- -	AL-02	4	AL	FF	8/A5-3	5/A5-4	13/A5-4	3		
109	3' - 0"	7' - 0"	A	HM	- -	PNT	- -	08	1	HM	PNT	1/A5-4	2/A5-4	- -		B	EMS STORAGE 109
110	3' - 0"	7' - 0"	D	WD	GL-4	FF	- -	06	1	HM	PNT	1/A5-4	2/A5-4	- -			
110A	3' - 0"	7' - 0"	D	HM	GL-4	PNT	- -	07	4	HM	PNT	8/A3-8	7/A3-8	14/A5-4			
111	3' - 0"	7' - 0"	A	HM	- -	PNT	- -	10	1	HM	PNT	1/A5-4	2/A5-4	- -	1, 2	B	IT/AV ROOM 111
112	3' - 0"	7' - 0"	A	WD	- -	FF	- -	05	1	HM	PNT	1/A5-4	2/A5-4	- -		B	PANTRY 112
113	3' - 0"	7' - 0"	A	WD	- -	FF	- -	04	1	HM	PNT	1/A5-4	2/A5-4	- -		B	SHOWER AND TOILET ROOM 113
114	3' - 0"	7' - 0"	A	WD	- -	FF	- -	04	1	HM	PNT	1/A5-4	2/A5-4	- -		B	SHOWER AND TOILET ROOM 114
115	3' - 0"	7' - 0"	A	WD	- -	FF	- -	04	1	HM	PNT	1/A5-4	2/A5-4	- -		B	SHOWER AND TOILET ROOM 115
116	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
117	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
118	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
119	3' - 0"	7' - 0"	A	WD	- -	FF	- -	05	1	HM	PNT	1/A5-4	2/A5-4	- -		B	LAUNDRY 119
120	3' - 0"	7' - 0"	D	HM	GL-2	PNT	- -	01	4	HM	PNT	6/A5-4	5/A5-4	14/A5-4	1, 2	B	EXIT
121	3' - 0"	7' - 0"	D	HM	GL-2	PNT	- -	01	4	HM	PNT	6/A5-4	5/A5-4	14/A5-4	1, 2	B	EXIT
121A	3' - 0"	7' - 0"	A	WD	- -	FF	- -	06	1	HM	PNT	1/A5-4	2/A5-4	- -			
122	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
123	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
124	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
125	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
126	3' - 0"	7' - 0"	A	WD	- -	FF	- -	12	1	HM	PNT	1/A5-4	2/A5-4	- -			
127	3' - 0"	7' - 0"	D	WD	GL-4	FF	- -	06	1	HM	PNT	1/A5-4	2/A5-4	- -			
127A	3' - 0"	7' - 0"	D	HM	GL-4	PNT	- -	07	4	HM	PNT	8/A3-8	7/A3-8	14/A5-4			
128	3' - 0"	7' - 0"	A	HM	- -	PNT	- -	11	1	HM	PNT	1/A5-4	2/A5-4	- -		B	MECHANICAL ROOM 128
129	6' - 0"	7' - 0"	A	HM	- -	PNT	- -	09	5	HM	PNT	3/A5-4	4/A5-4	- -	8	B	ELECTRICAL ROOM 129
130	16' - 0"	12' - 8"	I	STL	GL-5	FF	- -	14	- -	STL	FF	3/A3-6	8/A3-5	- -	2, 4		
130A	16' - 0"	12' - 8"	I	STL	GL-5	FF	- -	14	- -	STL	FF	3/A3-6	4/A3-6	- -	2, 4		
130B	3' - 0"	7' - 0"	D	HM	GL-2	PNT	- -	01	4	HM	PNT	7/A5-4	8/A5-4	14/A5-4	1, 2	B	EXIT
131	16' - 0"	12' - 8"	I	STL	GL-5	FF	- -	14	- -	STL	FF	3/A3-6	8/A3-5	- -	2, 4		
131A	16' - 0"	12' - 8"	I	STL	GL-5	FF	- -	14	- -	STL	FF	3/A3-6	4/A3-6	- -	2, 4		
132	16' - 0"	12' - 8"	I	STL	GL-5	FF	- -	14	- -	STL	FF	3/A3-6	8/A3-5	- -	2, 4		
132A	16' - 0"	12' - 8"	I	STL	GL-5	FF	- -	14	- -	STL	FF	3/A3-6	4/A3-6	- -	2, 4		
133	6' - 0"	7' - 0"	D	HM	GL-4	PNT	- -	AL-03	5	HM	PNT	3/A5-4	4/A5-4	- -	8		
134	6' - 0"	7' - 4"	H	WD/ SS	ACRYLIC	FF	- -	13	- -	- -	- -	PER MFR	PER MFR	- -	7, 8		
136	6' - 0"	7' - 0"	A	HM	- -	PNT	- -	02	5	HM	PNT	7/A5/4	8/A5-4 SIM	14/A5-4	8	B	EXIT
136A	3' - 0"	7' - 0"	A	HM	- -	PNT	- -	05	4	HM	PNT	3/A5-4	4/A5-4	- -			
200	3' - 0"	4' - 4"	A	HM	- -	PNT	- -	11A	1 SIM	HM	PNT	11/A3-8 SIM	11/A3-8	12/A3-8	6		
203	6' - 8"	3' - 8"	A	HM	- -	PNT	- -	02A	1 SIM	HM	PNT	10/A3-8 SIM	10/A3-8	2/A3-6	6, 9		

DOOR SCHEDULE GENERAL NOTES

1. FRAME ELEVATIONS INDICATED ARE BASED UPON NOMINAL DIMENSIONS. FIELD VERIFY DIMENSIONS OF ACTUAL ROUGH OPENINGS.
2. ALL INTERIOR EXPOSED STEEL LINTELS ARE TO BE PAINTED TO MATCH ADJACENT WALL FINISH - REFERENCE ROOM FINISH SCHEDULE.
3. ALL GLAZING IS TO BE TYPE GL-2, UNO.
4. FOR HOLLOW METAL DOORS AND FRAMES COLOR, REFER TO INTERIOR COLOR SCHEDULE AND EXTERIOR COLOR SCHEDULE.

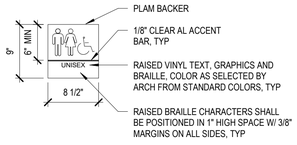
DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM
EX	EXISTING
FF	FACTORY FINISH
GL	GLAZING
HM	HOLLOW METAL
PNT	PAINT
SS	STAINLESS STEEL
STL	STEEL
WD	WOOD

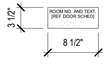
DOOR SCHEDULE COMMENTS

1. PROVIDE ELECTRONIC POSITION MONITORING
2. ELECTRONIC DOOR ACCESS DEVICE
3. REFLECTIVE FILM ON GLASS TO PREVENT VISION INTO BUILDING
4. OVERHEAD SECTIONAL DOOR WITH GLASS
5. STC-45 ACOUSTICAL DOOR
6. PARTIAL HEIGHT ACCESS DOOR, 4-SIDED FRAME
7. ELIASON, METAL/ STAINLESS STEEL/ BRUSHED
8. 6'-0" DOOR SIZE WIDTH IS EQUAL TO A PAIR OF 3'-0" DOOR LEAVES
9. 6-8" DOOR SIZE WIDTH IS EQUAL TO A PAIR OF 3'-4" DOOR LEAVES

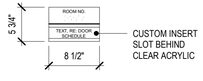
SIGNAGE TYPES



TYPE A
UNISEX RESTROOM



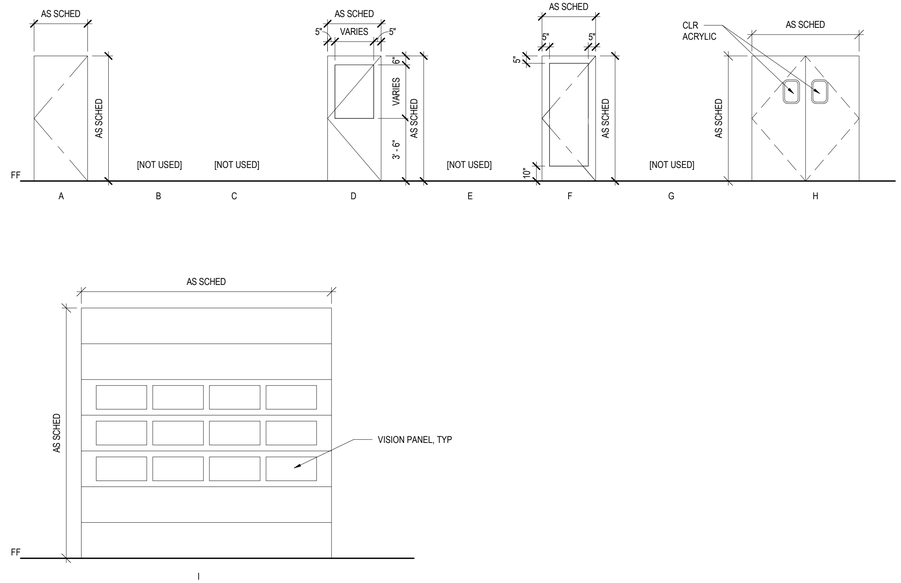
TYPE B
ROOM ID, DOUBLE LINE



TYPE C
OFFICE ID (ACCOMMODATES INSERT)

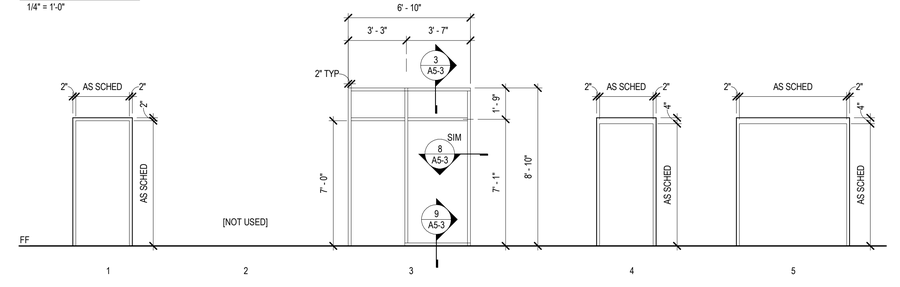
DOOR TYPES

1/4" = 1'-0"



FRAME TYPES

1/4" = 1'-0"



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582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

DOOR SCHEDULE / FRAME ELEVATIONS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A5-1

Project Team:
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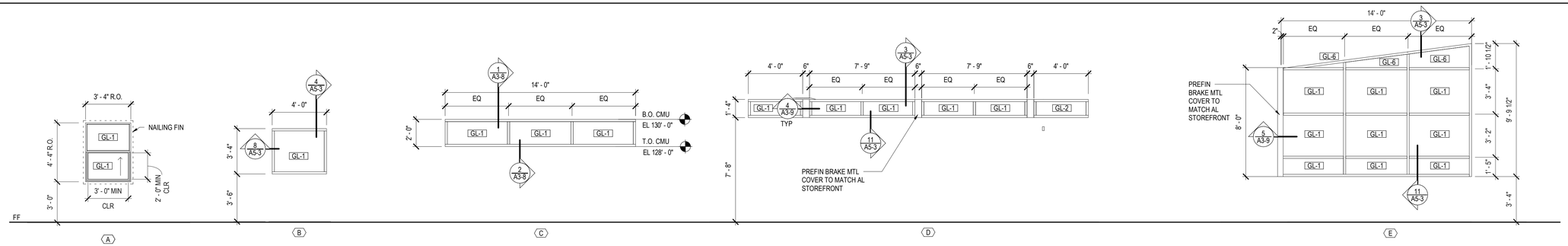
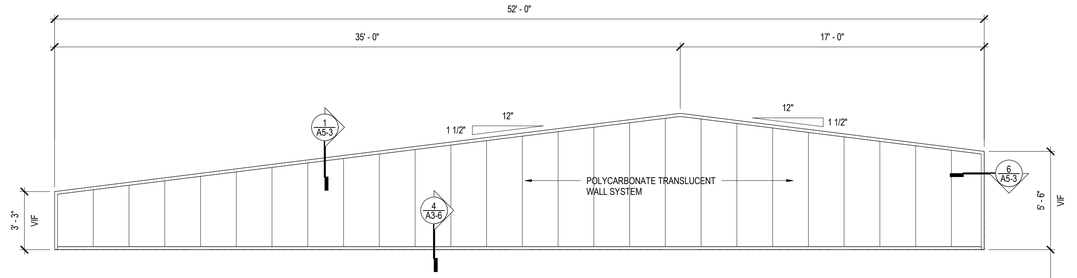
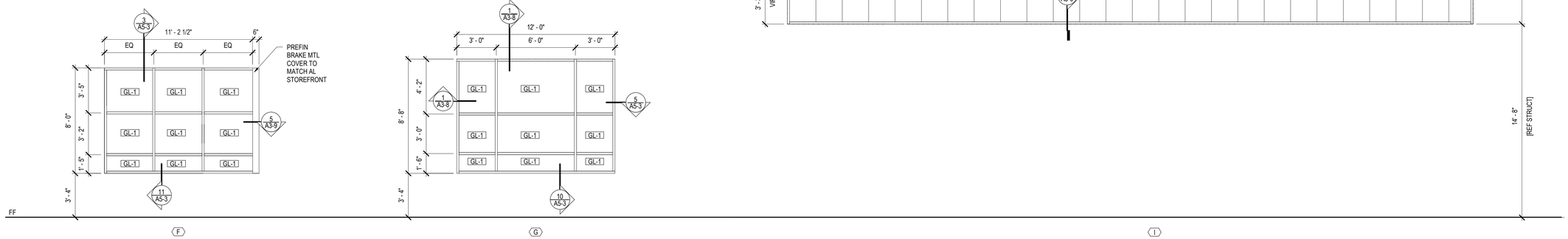
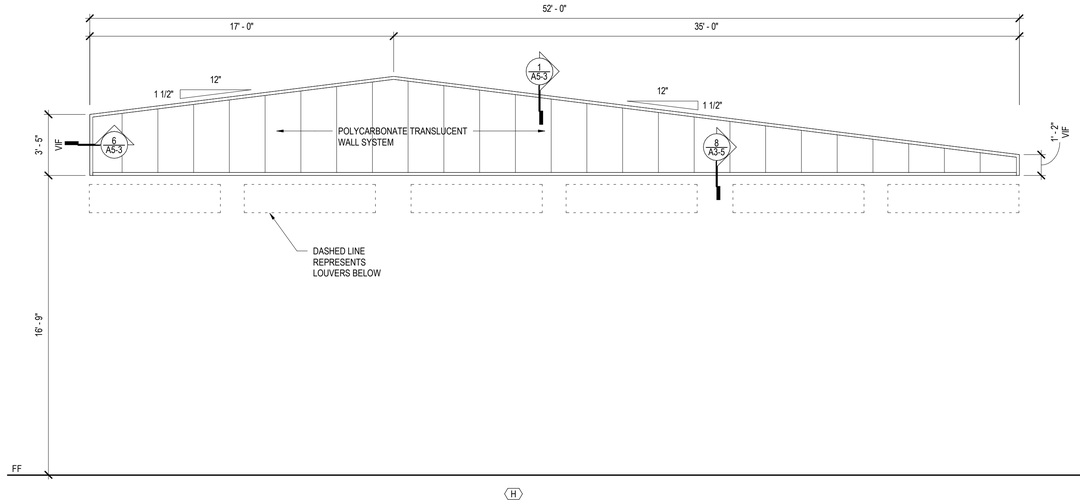


NOTE: EGRESS WINDOW FOR SLEEPING ROOMS SIZE OF CLEAR EGRESS AREA TO BE 5.0 SF MIN [IBC 1030.2, EXCEPTION FOR GRADE FLOOR WINDOWS]







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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

FRAME ELEVATION

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A5-2

Project Team:

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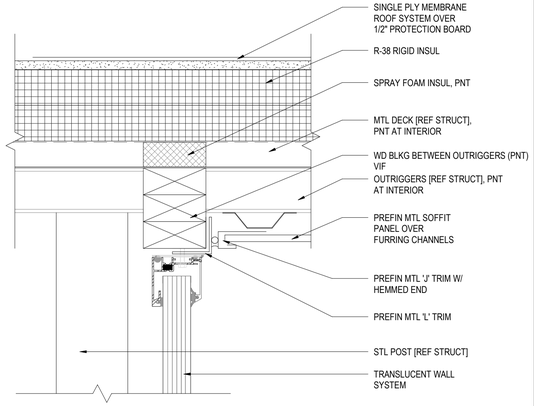
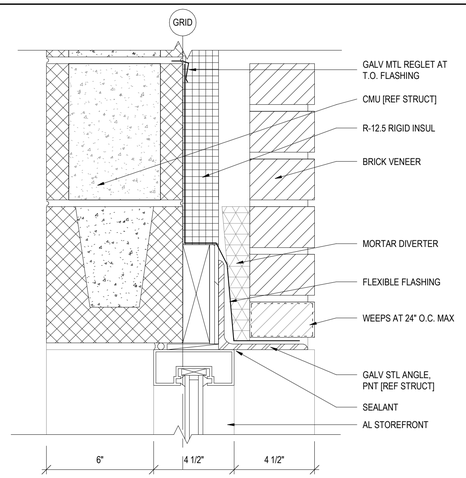
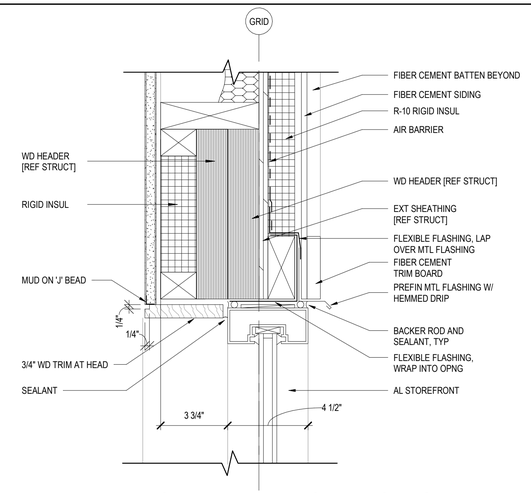


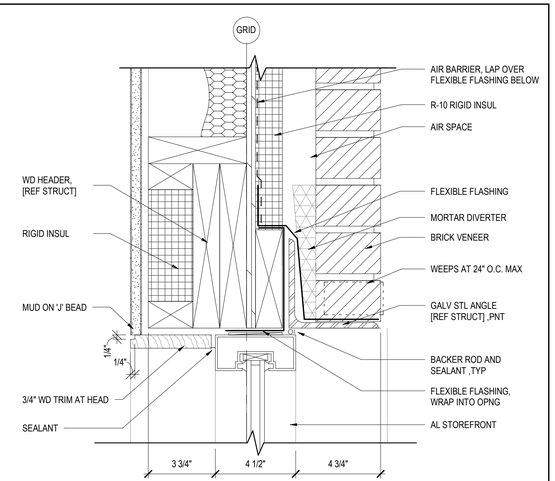
1 A5-3 WINDOW HEAD AT TRANSLUCENT WINDOW
3" = 1'-0"



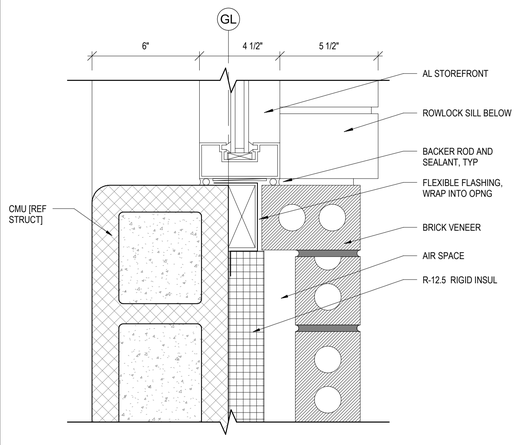
2 A5-3 WINDOW HEAD AT CMU/BRICK
3" = 1'-0"



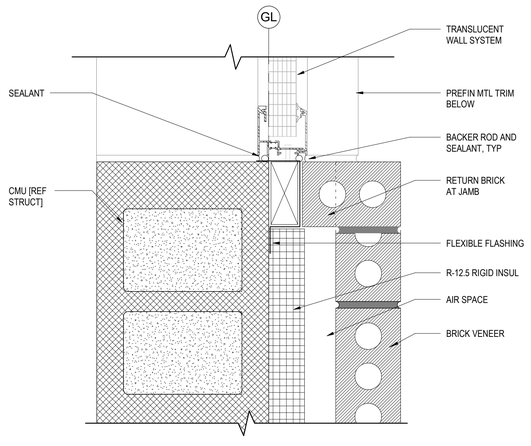
3 A5-3 WINDOW HEAD AT FIBER CEMENT SIDING
3" = 1'-0"



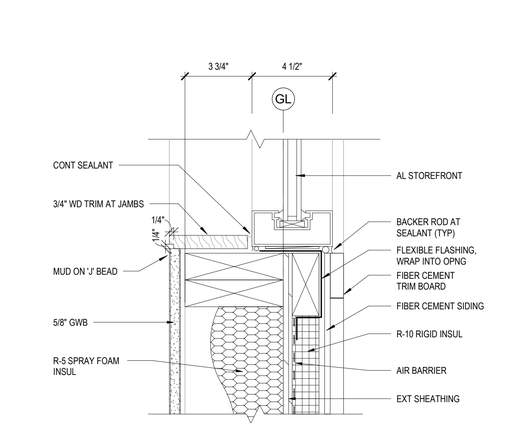
4 A5-3 WINDOW HEAD AT BRICK
3" = 1'-0"



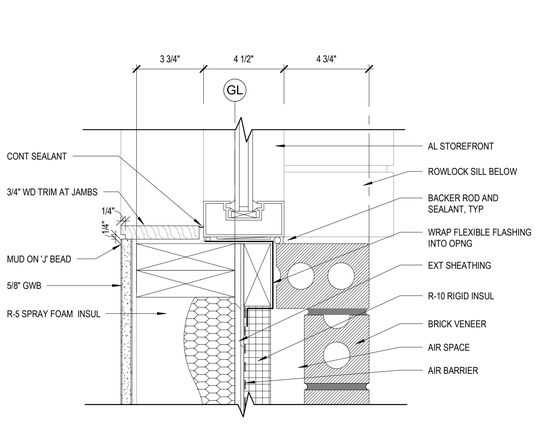
5 A5-3 WINDOW JAMB DETAIL
3" = 1'-0"



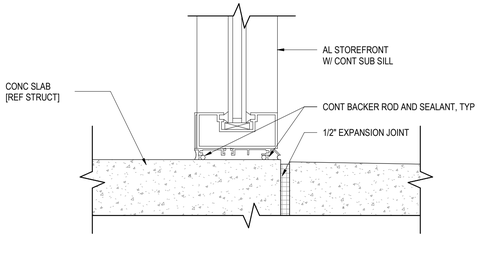
6 A5-3 WINDOW JAMB AT TRANSLUCENT WINDOW
3" = 1'-0"



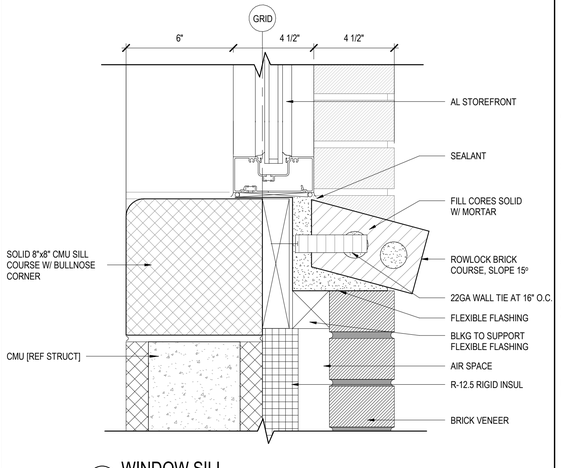
7 A5-3 WINDOW JAMB AT FIBER CEMENT SIDING
3" = 1'-0"



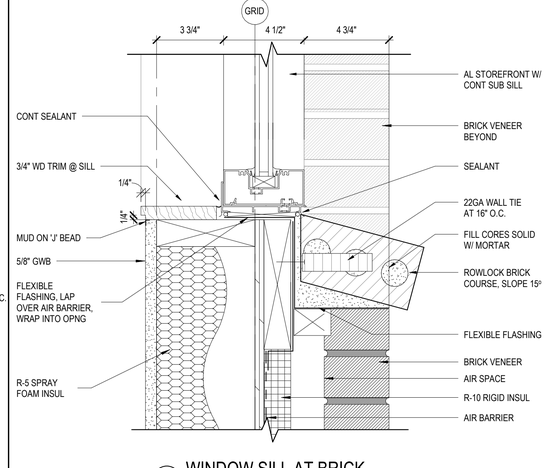
8 A5-3 WINDOW JAMB AT BRICK
3" = 1'-0"



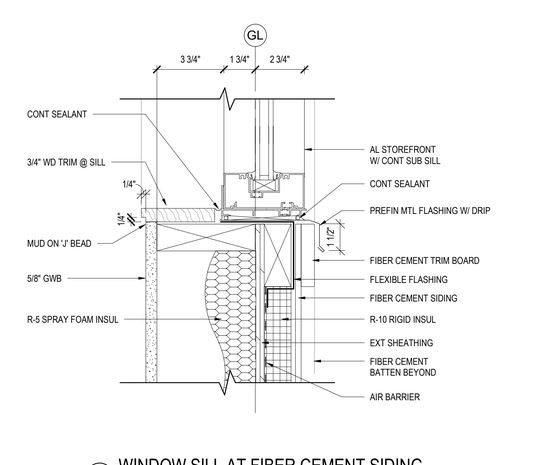
9 A5-3 DETAIL
3" = 1'-0"



10 A5-3 WINDOW SILL
3" = 1'-0"



11 A5-3 WINDOW SILL AT BRICK
3" = 1'-0"



12 A5-3 WINDOW SILL AT FIBER CEMENT SIDING
3" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

WINDOW DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A5-3

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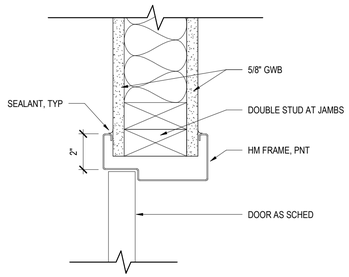
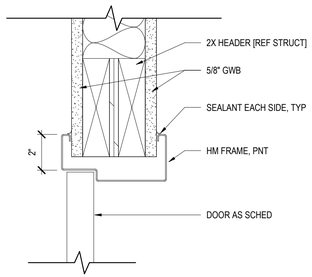
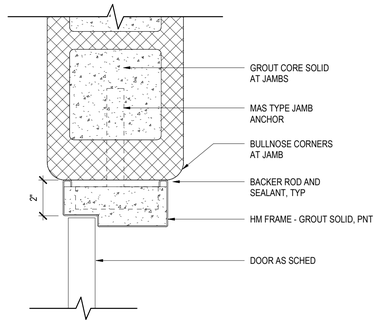


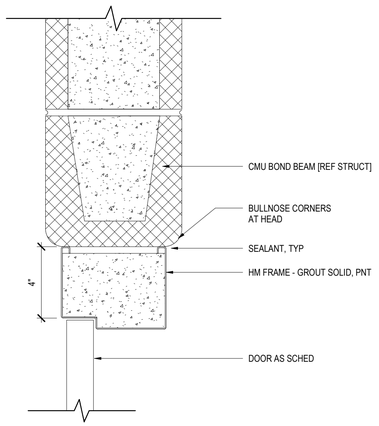
1 A5-4 INTERIOR DOOR JAMB
3" = 1'-0"



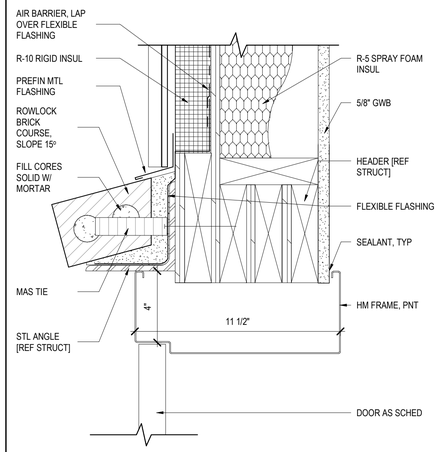
2 A5-4 INTERIOR DOOR HEAD
3" = 1'-0"



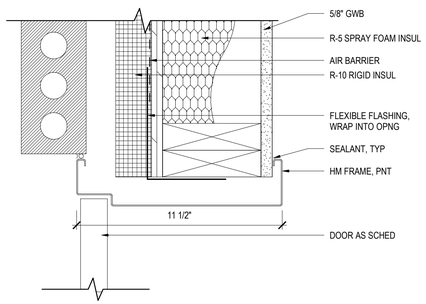
3 A5-4 DOOR JAMB AT INTERIOR BLOCK WALL
3" = 1'-0"



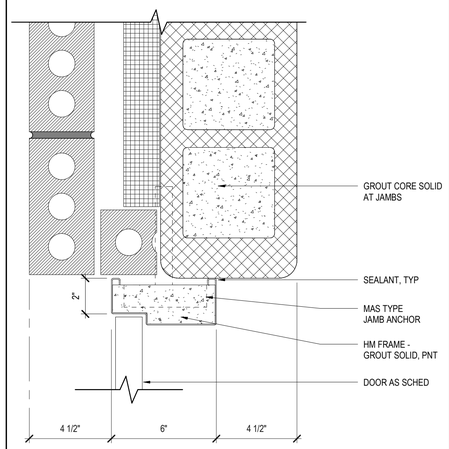
4 A5-4 DOOR HEAD AT INTERIOR BLOCK WALL
3" = 1'-0"



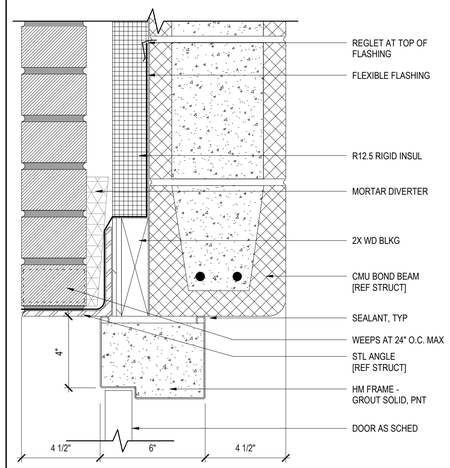
5 A5-4 HEAD DETAIL
3" = 1'-0"



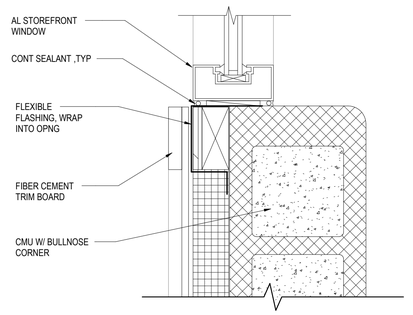
6 A5-4 JAMB DETAIL
3" = 1'-0"



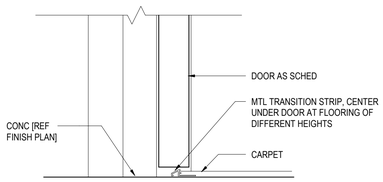
7 A5-4 JAMB DETAIL
3" = 1'-0"



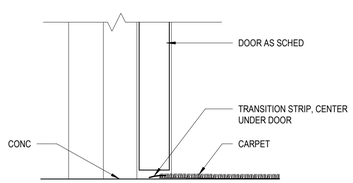
8 A5-4 HEAD DETAIL
3" = 1'-0"



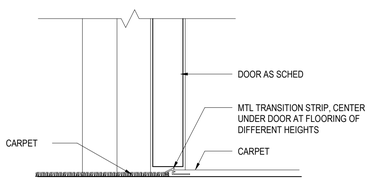
9 A5-4 JAMB DETAIL
3" = 1'-0"



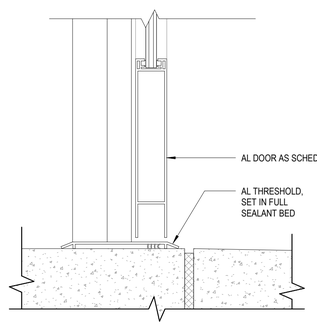
10 A5-4 THRESHOLD CARPET TO CONC
3" = 1'-0"



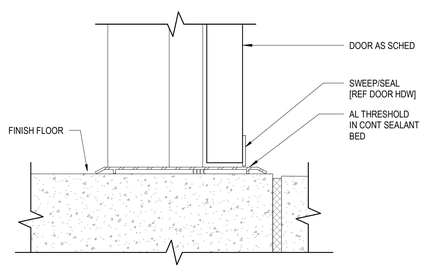
11 A5-4 THRESHOLD CARPET TO CONC
3" = 1'-0"



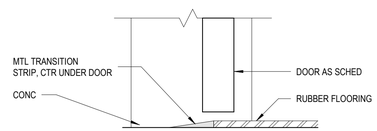
12 A5-4 THRESHOLD CARPET TO CARPET
3" = 1'-0"



13 A5-4 THRESHOLD AT STOREFRONT
3" = 1'-0"



14 A5-4 THRESHOLD DETAIL
3" = 1'-0"



15 A5-4 THRESHOLD CONCRETE TO RUBBER
3" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

DOOR DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

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Project Team:

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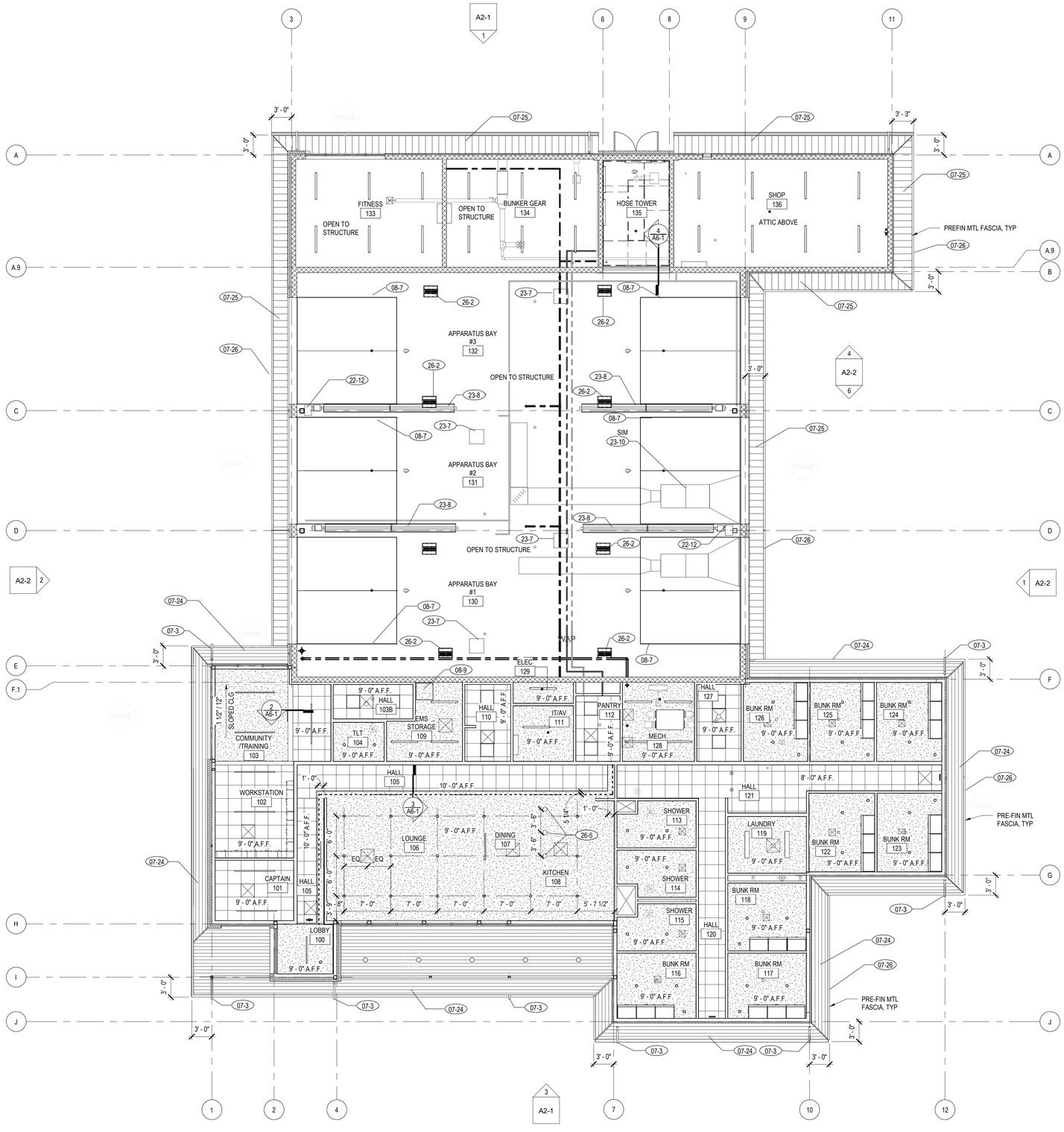
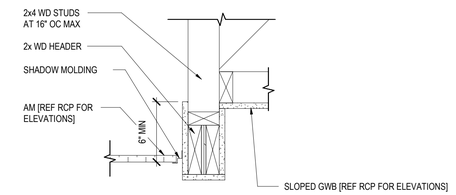
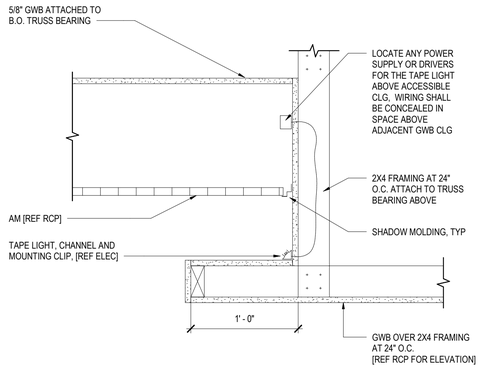


1 A6-1 REFLECTED CEILING PLAN
1/8" = 1'-0"
NORTH

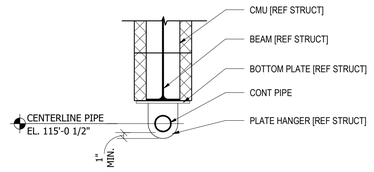
KEYNOTE LEGEND	
07-3	DOWN SPOUT, TYP
07-24	PREFINISHED WOOD PLANK SOFFIT
07-25	PREFINISHED METAL SOFFIT PLANK
07-26	PREFINISHED METAL FASCIA
08-7	OVERHEAD SECTIONAL DOOR TRACK
08-9	ATTIC ACCESS
22-12	HOSE REEL [REF PLBG]
23-7	ENGINE EXHAUST REMOVAL [REF MECH]
23-8	INFRARED HEATER [REF MECH]
23-10	DUCT [REF MECH]
26-2	LIGHT FIXTURE, TYP [REF ELEC]
26-5	LIGHT FIXTURE, CENTER LIGHT FIXTURE TO ISLAND COUNTER BELOW ALL DIRECTIONS



2 A6-1 DETAIL
1 1/2" = 1'-0"



3 A6-1 DETAIL
1 1/2" = 1'-0"



4 A6-1 STL PIPE AT STAIR DETAIL
1" = 1'-0"

LEGEND

- ACOUSTICAL CEILING TILE REF INTERIOR FINISH SCHEDULE FOR COLOR]
- GWB [PNT 2]
- RECESSED LIGHT FIXTURE [REF ELEC]
- SUSPENDED LIGHT FIXTURE [REF ELEC]
- SUSPENDED LIGHT FIXTURE [REF ELEC]
- MECHANICAL AIR RETURN [REF MECH]
- MECHANICAL AIR DIFFUSER [REF MECH]

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

REFLECTED CEILING PLAN

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A6-1

Project Team:

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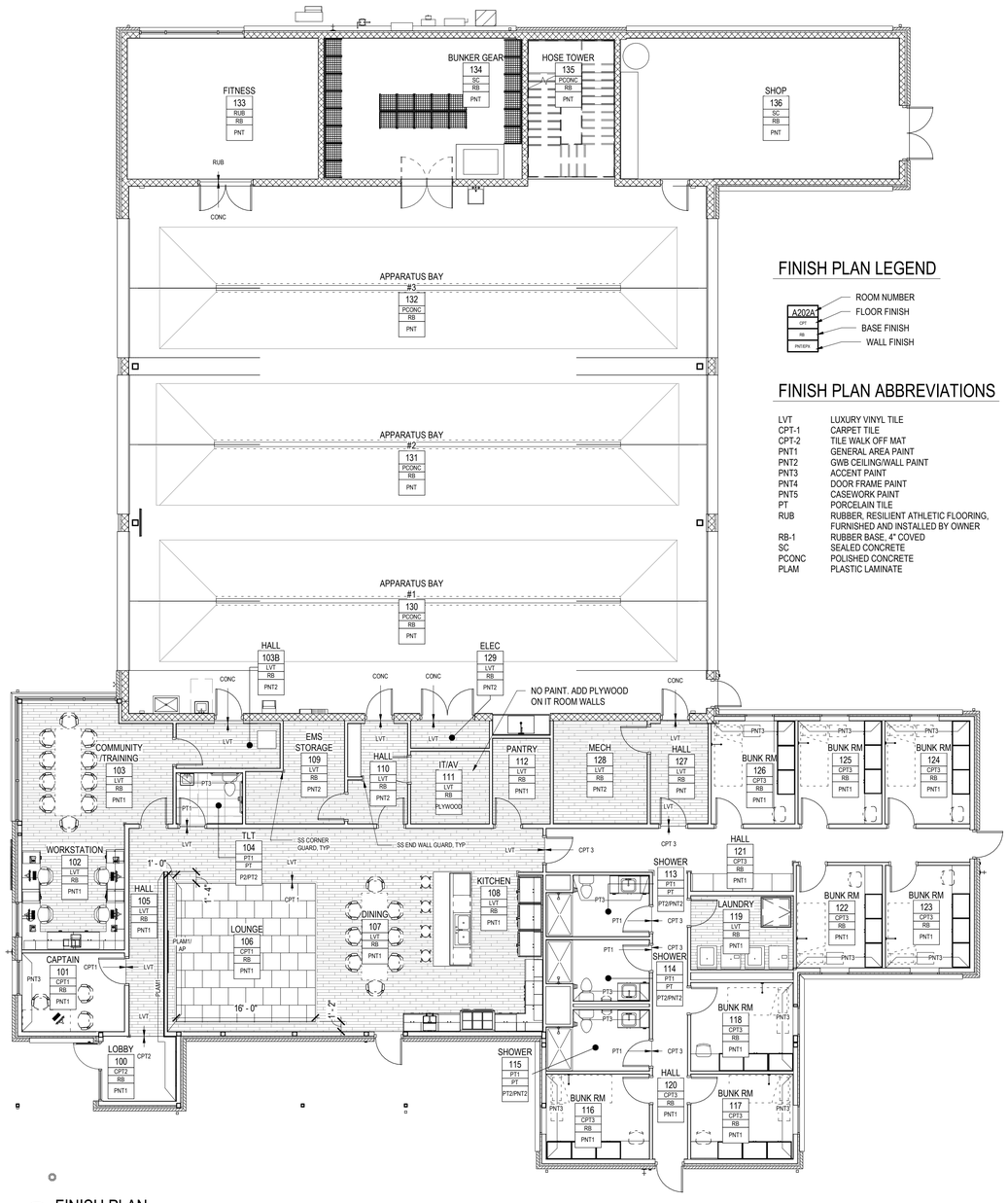

FINISH PLAN LEGEND

FINISH PLAN ABBREVIATIONS

LVT	LUXURY VINYL TILE
CPT-1	CARPET TILE
CPT-2	TILE WALK OFF MAT
PNT1	GENERAL AREA PAINT
PNT2	GWB CEILING/WALL PAINT
PNT3	ACCENT PAINT
PNT4	DOOR FRAME PAINT
PNT5	CASEWORK PAINT
PT	PORCELAIN TILE
RUB	RUBBER, RESILIENT ATHLETIC FLOORING, FURNISHED AND INSTALLED BY OWNER
RB-1	RUBBER BASE, 4" COVED
SC	SEALED CONCRETE
PCONC	POLISHED CONCRETE
PLAM	PLASTIC LAMINATE

1 A7-1 FINISH PLAN
1/8" = 1'-0"

NOTE: FURNITURE SHOWN FOR REFERENCE ONLY. FURNITURE IS FBO

EXTERIOR FINISH COLOR SCHEDULE		
TITLE	ITEM	COLOR
CAST IN PLACE CONCRETE	SITE CONCRETE	GRAY
MASONRY VENEER	BRICK VENEER	GENERAL SHALE, COLONIAL SATIN
MASONRY VENEER	MORTAR	SOLOMON, SGS 97H SUPER BLACK
METAL SOFFIT PANELS	METAL SOFFIT PANEL	ALUMINUM DARK BRONZE
FIBER CEMENT SIDING	FIBER CEMENT SIDING	JAMES HARDIE, RICH ESPRESSO
FIBER CEMENT SIDING	FIBER CEMENT BATTEN BOARDS	JAMES HARDIE, RICH ESPRESSO
FIBER CEMENT SIDING	FIBER CEMENT TRIM BOARDS	JAMES HARDIE, RICH ESPRESSO
ROOF SPECIALTIES	COPINGS	ALUMINUM DARK BRONZE
ROOF SPECIALTIES	GUTTERS AND DOWNSPOUTS	ALUMINUM DARK BRONZE
JOINT SEALANTS	MASONRY CONTROL JOINT	MATCH MORTAR
JOINT SEALANTS	STOREFRONT TO FIBER CEMENT JOINTS	MATCH STOREFRONT
JOINT SEALANTS	METAL PANEL TO FIBER CEMENT JOINTS	MATCH METAL PANELS
JOINT SEALANTS	MASONRY TO METAL PANEL JOINTS	MATCH METAL PANELS
HOLLOW METAL DOOR AND FRAMES	DOORS	MATCH ALUMINUM STOREFRONT FRAMING
HOLLOW METAL DOOR AND FRAMES	FRAMES	MATCH ALUMINUM STOREFRONT FRAMING
SECTIONAL DOORS	DOORS	RAL COLOR TO MATCH STOREFRONT
AL FRAMED ENTRANCES AND STOREFRONTS	STOREFRONT FRAMING	DARK BRONZE ANODIZED
HIGH PERFORMANCE COATINGS	EXTERIOR STEEL	MATCH AL STOREFRONT FRAMING
SIGNAGE	EXTERIOR CAST ALUMINUM LETTERS	DARK BRONZE ANODIZED
FLAGPOLES	FLAGPOLE	DARK BRONZE ANODIZED

INTERIOR FINISH COLOR SCHEDULE								
	TAG	MANUFACTURER	FAMILY/ STYLE	NUMBER	COLOR	FINISH	LOCATION	NOTES
PAINT	PNT1	SHERWIN WILLIAMS		SW6106	KILIM BEIGE		WALL	EGGSHELL FINISH TYP, EPOXY AT WET AND UTILITY LOCATIONS
	PNT2	SHERWIN WILLIAMS		SW7042	SHOJI WHITE		CEILING	GWB CEILINGS - FLAT FINISH, EPOXY AT WET AND UTILITY LOCATIONS
	PNT3	SHERWIN WILLIAMS		SW7045	INTELLECTUAL GRAY		WALL	ACCENT, EGGSHELL FINISH
	PNT4	SHERWIN WILLIAMS		SW7026	GRIFFIN		DOOR FRAMES	SEMI GLOSS FINISH
	PNT5	SHERWIN WILLIAMS		SW6991	BLACK MAGIC		CASEWORK	SEMI GLOSS FINISH
CARPET	CPT1	MANNINGTON	OFFLINE LOOP	14199	LINKED		OFFICE	
	CPT2	MANNINGTON	FORCE	TBD	TBD	--	AS SHOWN ON PLAN	WALK OFF CARPET
	CPT3	MANNINGTON	BOUCLE	15297	ONYX		SLEEPING ROOM	
LUXURY VINYL TILE	LVT	MANNINGTON	NATURE'S PATH WOOD		AMERICAN WALNUT	NATURAL	AS SHOWN ON PLAN	EXTEND UNDER CASEWORK, SHELVING AND APPLIANCES
RESILIENT BASE	RB	ROPPE		194	BURNT UMBER		AS SHOWN ON PLAN	
CEILING GRID AND TILE	AM				WHITE		AS SHOWN ON RCP	
TILE	PT1	LANDMARK CERAMICS	ATTITUDE		CALM BROWN	--	FLOOR	
	PT2	LANDMARK CERAMICS	ATTITUDE		LIGHT WHITE	--	WALL	
	PT3	IRIS CERAMICA	BOWL		GRAY(LUX)	--	WALL	ACCENT
GROUT							FLOOR AND WALL	TO BE SELECTED FROM MFR'S STANDARD COLORS
PLASTIC LAMINATE	PLAM1	WILSONART		7965K-12	WALNUT HEIGHTS		CASEWORK/PANELING	
CORNER GUARD/END GUARD	--						AS SHOWN ON PLAN	STAINLESS STEEL
WINDOW SHADES	--				TBD	LIGHT FILTERING	WINDOWS	TO BE SELECTED FROM MFR'S STANDARD COLORS
	--				TBD	BLACKOUT	WINDOWS	TO BE SELECTED FROM MFR'S STANDARD COLORS
COUNTERTOPS	SSM	CORIAN			COTTAGE LANE		AS SHOWN ON PLAN	
WALL SOUND PANEL	AP	GUILFORD OF MAINE	OTTO	7030	SLATE		AS SHOWN ON PLAN	
FLUSH WD DOORS	--	--			PLAIN SLICED WALNUT	CLEAR	AS SCHEDULED	
RESILIENT SPORTS FLOORING	RUB						FITNESS AREA	FURNISHED AND INSTALLED BY OWNER
SIGNAGE TEXT	--						AS SCHEDULED	TO BE SELECTED FROM MFR'S STANDARD COLORS
SIGNAGE BACKGROUND	--	WILSONART		7965K-12	WALNUT HEIGHTS		AS SCHEDULED	
SIGNAGE ACCENT BAR	--				ANODIZED ALUMINUM		AS SCHEDULED	

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GRAND JUNCTION FIRE DEPARTMENT FIRE STATION #3

582 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ROOM FINISH/ SIGNAGE PLAN

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2/25/2021

PROJECT #: 2072

SHEET #:

A7-1

Project Team:
Print Date: 2/25/2021 3:03:44 PM

ABBREVIATIONS

A.B.	-ANCHOR BOLT	F.O.B.	-FACE OF BRICK	P.T.	-PRESSURE TREATED
ADD'L	-ADDITIONAL	F.O. CONC.	-FACE OF CONCRETE	R.	-RADIUS
ADJ.	-ADJACENT	F.O.W.	-FACE OF WALL	REINF.	-REINFORCEMENT
A.I.S.C.	-AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FS.	-FLAT SLAB	REQ'D	-REQUIRED
		FT.	-FOOT	RM.	-ROOM
ALT.	-ALTERNATE	FTG.	-FOOTING	SB	-SEATED BEAM
ARCH.	-ARCHITECTURAL	F.W.	-FILLET WELD	SCHED.	-SCHEDULE
A.S.T.M.	-AMERICAN SOCIETY FOR TESTING & MATERIALS	GA.	-GAUGE	SECT.	-SECTION
		GAL.	-GALVANIZED	SHT.	-SHEET
BLDG.	-BUILDING	G.L.	-GLU-LAM BEAM	s.d.l.	-SUPERIMPOSED DEAD LOAD
BM.	-BEAM	GR.	-GRADE	SIM.	-SIMILAR
B.O.	-BOTTOM OF	GR. BM.	-GRADE BEAM	s.l.	-SNOW LOAD
BOT.	-BOTTOM	H.A.S.	-HEADED ANCHOR STUD	S.L.V.	-SHORT LEG VERTICAL
BSMT.	-BASEMENT	H.D.G.	-HOT DIPPED GALVANIZED	SPC.	-SPACE
BTWN.	-BETWEEN	HORIZ.	-HORIZONTAL	SPEC.	-SPECIFICATION
CANT.	-CANTILEVER	H.S.B.	-HIGH STRENGTH BOLT	SQ.	-SQUARE
CB.	-CARDBOARD	HSS	-HOLLOW STRUCTURAL SECTION	STD.	-STANDARD
CH.	-CHAMFER	I.D.	-INSIDE DIAMETER	STIFF.	-STIFFENER
C.J.	-CONTROL/CONSTRUCTION JOINT	I.F.	-INSIDE FACE	STL.	-STEEL
CJP	-COMPLETE JOINT PENETRATION	IN.	-INCH	STOR.	-STORAGE
CLR.	-CLEAR, CLEARANCE	INT.	-INTERIOR	SYM.	-SYMMETRICAL
C.M.U.	-CONCRETE MASONRY UNIT	JNT.	-JOINT	T.&B.	-TOP & BOTTOM
COL.	-COLUMN	K	-KIP (1,000 lbs.)	THK.	-THICKNESS
CONC.	-CONCRETE	K.C.I.	-KIP PER CUBIC INCH	T.O.	-TOP OF
CONN.	-CONNECTION	LB.	-POUND	TYP.	-TYPICAL
CONST.	-CONSTRUCTION	LIN. FT.	-LINEAL FEET	U.N.O.	-UNLESS NOTED OTHERWISE
CONT.	-CONTINUOUS	l.l.	-LIVE LOAD	VAR.	-VARIES
CONTR.	-CONTRACTOR	L.L.V.	-LONG LEG VERTICAL	VERT.	-VERTICAL
CTRD.	-CENTERED	L.S.L.	-LAMINATED STRAND LUMBER	V.I.F.	-VERIFY IN FIELD
C.W.	-CURTAIN WALL	L.V.L.	-LAMINATED VENEER LUMBER	WT.	-WEIGHT
DET.	-DETAIL	MAT'L.	-MATERIAL		
DIAG.	-DIAGONAL	MAX.	-MAXIMUM	SYMBOLS	
DIAM.	-DIAMETER	MECH.	-MECHANICAL	℄	CENTER LINE
DIM.	-DIMENSION	MID.	-MIDDLE		
DISCONT.	-DISCONTINUOUS	MIN.	-MINIMUM	ø	DIAMETER
d.l.	-DEAD LOAD	MISC.	-MISCELLANEOUS		
DWG.	-DRAWING	MTL.	-METAL		ELEVATION
EA.	-EACH	N.I.C.	-NOT IN CONTRACT	&	AND
E.F.	-EACH FACE	NO.	-NUMBER	W/	WITH
EL.	-ELEVATION	NOM.	-NOMINAL	PL	PLATE
ELECT.	-ELECTRICAL	N.T.S.	-NOT TO SCALE		P-X PILASTER TYPE
ELEV.	-ELEVATOR	O.C.	-ON CENTER	X	BY
EQ.	-EQUAL	O.F.	-OUTSIDE FACE	#	NUMBER
E.W.B.	-END WALL BARS	O.D.	-OUTSIDE DIAMETER	@	AT PC:X PILE CAP TYPE
E.W.	-EACH WAY	O.H.	-OPPOSITE HAND		XXX'-XX" TOP OF PILE CAP ELEVATION
EXIST.	-EXISTING	OPNG.	-OPENING	⌑	SQUARE
EXP. JNT.	-EXPANSION JOINT	P.A.F.	-POWDER ACTUATED FASTENERS	L	ANGLE
EXT.	-EXTERIOR	PL	-PLATE		
F.D.	-FLOOR DRAIN	P.S.F.	-POUND PER SQUARE FOOT		
FDN.	-FOUNDATION	P.S.I.	-POUND PER SQUARE INCH		
FIN.	-FINISH	P.S.L.	-PARALLEL STRAND LUMBER		
FLR.	-FLOOR				

SPECIALTY PIER SPECIFICATIONS (BID ALTERNATE #1)

1. SPECIALTY PIERS (ROTARY DRIVEN PIPE PILES) SHALL BE INSTALLED BY AN AUTHORIZED PIER INSTALLING CONTRACTOR WHO HAS SATISFIED THE CERTIFICATION REQUIREMENTS RELATING TO THE TECHNICAL ASPECTS OF THE PRODUCT AND THE ASCRIBED INSTALLATION TECHNIQUES.
2. ALL WORK AS DESCRIBED HEREIN SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES IN EFFECT AT THE TIME OF INSTALLATION.
3. THE SPECIALTY PIER LEAD SECTIONS AND EXTENSIONS SHALL BE STEEL PIPE CONFIGURATION, WITH ONE OR MORE HELICAL BEARING PLATES WELDED TO THE SHAFT.
4. ALL PIERS MUST BE CORROSION PROTECTED BY HOT DIP GALVANIZATION. UNCOATED STEEL MAY ONLY BE USED IF ADDITIONAL WALL THICKNESS IS PROVIDED AS REQUIRED TO MAINTAIN THE DESIGN CAPACITY OF EACH PIER FOR A MINIMUM 100 YEAR LIFE WHEN EXPOSED TO SOILS HAVING MODERATE TO HIGH POTENTIAL FOR CORROSION OF STEEL. SEE THE PROJECT GEOTECHNICAL REPORT FOR LEVELS OF CORROSIVITY OF THE SITE SOILS.
5. INSTALLATION UNITS SHALL CONSIST OF A ROTARY TYPE TORQUE MOTOR WITH FORWARD AND REVERSE CAPABILITIES. THESE UNITS SHALL BE EITHER ELECTRICALLY OR HYDRAULICALLY POWERED.
6. INSTALLATION UNITS SHALL BE CAPABLE OF DEVELOPING THE MINIMUM TORQUE AS REQUIRED.
7. INSTALLATION UNITS SHALL BE CAPABLE OF POSITIONING THE HELICAL PIER AT THE PROPER INSTALLATION ANGLE. THIS ANGLE MAY VARY BETWEEN VERTICAL AND 5 DEGREES DEPENDING UPON APPLICATION AND TYPE OF LOAD TRANSFER DEVICE SPECIFIED OR REQUIRED.
8. INSTALLATION TORQUE SHALL BE MONITORED THROUGHOUT THE INSTALLATION PROCESS.
9. SPECIALTY PIERS SHALL BE INSTALLED TO THE MINIMUM TORQUE VALUE REQUIRED TO PROVIDE THE LOAD CAPACITIES SHOWN ON THE PLANS.
10. THE APPROPRIATE NEW STEEL CONSTRUCTION LOAD TRANSFER DEVICE SHALL BE USED, OR AS DETAILED IN THE FOUNDATION SECTIONS OF THE STRUCTURAL DRAWINGS.
11. APPROPRIATE PIER SELECTION WILL CONSIDER LOAD PLUS 2X SAFETY FACTOR, SOILS PARAMETERS, AND THE INSTALLATION TORQUE VERSUS CAPACITY EQUATION AS PER THE MANUFACTURER'S RECOMMENDATIONS.

Sheet List

GENERAL NOTES CONT.

4. STEEL:
   A. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992 (Fy = 50ksi).
   B. ALL STRUCTURAL STEEL ANGLES, CHANNELS, S SHAPES, AND PLATES SHALL CONFORM TO ASTM 36 (FY = 36 ksi)
   C. ALL RECTANGULAR OR SQUARE HSS (HOLLOW STRUCTURAL SECTIONS) MEMBERS SHALL CONFORM TO ASTM A500 (GRADE B). ALL ROUND HSS MEMBERS SHALL CONFORM TO ASTM A53 (GRADE B) OR A501, LATEST EDITIONS.
   D. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISION OF THE A.I.S.C. STEEL CONSTRUCTION MANUAL.
   E. USE FRAMED BEAM CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS, OR WELDED EQUIVALENT, UNLESS OTHERWISE SHOWN OR NOTED, (2) BOLT MIN. FOR BEAMS WITHOUT DESIGNATED LOADS ON DRAWINGS, USE 8k MINIMUM EACH END. IF TWO SYMBOLS ARE SHOWN, THEY DENOTE CONNECTION REQUIRED AT CORRESPONDING END. IF ONLY ONE SYMBOL IS SHOWN, IT DENOTES CONNECTION REQUIRED AT EACH END OF BEAM.
   F. STEEL ROOF DECK:
      (1) STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH MANUFACTURER'S SUGGESTED SPECIFICATIONS.
      (2) STEEL ROOF DECK SHALL CONFORM TO ASTM A1008 AND SHALL HAVE A MINIMUM YIELD STRENGTH Fy = 33 KSI. SEE THE DECK SCHEDULE ON SHEET S2-6.
      (3) DECK TO BE CONTINUOUS OVER A MINIMUM OF 3 SUPPORTS. UNLESS OTHERWISE SHOWN.
      (4) WELD DECK TO ALL SUPPORTS WITH PUDDLE WELDS. DECK MUST BE CAPABLE OF WITHSTANDING A DIAPHRAGM SHEAR NOTED IN THE DECK SCHEDULE. CONNECT PANEL SEAMS WITH SELF-TAPPING SCREWS, PUDDLE WELDS, OR BUTTON PUNCHES AS INDICATED IN THE DECK SCHEDULE. SUBMIT TEST DATA FROM DECK MANUFACTURER FOR DECK SELECTED TO SUBSTANTIATE THAT DECK WILL MEET OR EXCEED REQUIRED DIAPHRAGM SHEAR.
      (5) PROVIDE L3 x 3 x 1/4 FRAMING AROUND ALL OPENINGS LARGER THAN 6".
   G. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE A.W.S. STANDARD QUALIFICATION TESTS.
   H. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES OR OTHER HOLES REQUIRED IN STEEL MEMBERS.

5. WOOD:
   A. ALL BEAMS AND HEADERS 2 TO 4 INCHES THICK SHALL BE HEM-FIR NO. 2 AND BETTER WITH Fb = 850 PSI AND E = 1,300,000 PSI.
   B. ALL BEAMS 5" AND THICKER SHALL BE HEM-FIR NO. 2 WITH Fb = 850 PSI AND E = 1,300,000 PSI.
   C. ALL POSTS AND COLUMNS 5" AND THICKER SHALL BE HEM-FIR NO. 2 WITH Fb = 850 PSI AND E = 1,300,000 PSI.
   D. STUDS AND PLATES SHALL BE HEM-FIR IN STUD GRADE WITH Fb = 800 PSI AND E = 1,200,000 PSI.
   E. LAMINATED VENEER LUMBER (L.V.L.) SHALL BE "MICRO-LAM" OR AN APPROVED EQUAL WITH Fb = 2,600 PSI AND E = 1,900,000 PSI.
   F. GLUE LAMINATED BEAMS:
      (1) ALL LAMINATED MEMBERS SHALL BE FABRICATED WITH ONE OF THE FOLLOWING SPECIES: DOUGLAS FIR, HEMLOCK, LARCH, OR SOUTHERN PINE.
      (2) LAMINATED MEMBERS SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR THE DESIGN AND FABRICATION OF STRUCTURAL GLUED LAMINATED LUMBER. PUBLISHED BY THE A.I.T.C. AND THE APPROPRIATE LUMBER PRODUCER'S ASSOCIATION.
      (3) LAMINATED MEMBERS SHALL BE FABRICATED AS FOLLOWS:
         a. BEAMS:
            SIMPLE SPAN ----------24F-V4
            CONTINUOUS AND CANTILEVERS ----------24F-V8
         b. COLUMNS:
            COMBINATION SYMBOL ----------4
      (4) LAMINATED MEMBERS SHALL BE BUILT UP USING 2" NOMINAL MATERIAL. LAMINATED MEMBER SIZES NOTED ARE NET.
      (5) MEMBERS EXPOSED TO VIEW SHALL BE FURNISHED IN "ARCHITECTURAL" APPEARANCE GRADE. MEMBERS TO BE CONCEALED BY FINISH MATERIALS OR CEILINGS MAY BE "INDUSTRIAL" GRADE.
      (6) ADHESIVES USED SHALL COMPLY WITH THE SPECIFICATIONS AS CONTAINED IN VOLUNTARY PRODUCT STANDARD PS56-73, STRUCTURAL GLUED LAMINATED TIMBER. WET-USE ADHESIVES ARE TO BE USED FOR ALL MEMBERS EXPOSED TO THE WEATHER.
   G. BUILT UP BEAMS OF DIMENSIONAL LUMBER OR LAMINATED VENEER LUMBER SHALL BE ATTACHED TOGETHER WITH 16d COMMON NAILS @ 32" O.C. TOP AND BOTTOM, STAGGERED. PROVIDE 2-16d COMMON NAILS AT BEAM ENDS AND INTERMEDIATE SUPPORTS.
   H. LAMINATED STRAND LUMBER (L.S.L.) RIM BOARDS SHALL BE "TIMBERSTRAND" BY TRUS-JOIST OR AN APPROVED EQUAL WITH Fb = 1,700 PSI AND E = 1,300,000 PSI.
   I. I-JOIST FRAMING SHALL BE AS DESIGNATED ON THE PLANS OR ENGINEER APPROVED ALT. JOISTS SHALL BE DESIGNED, MANUFACTURED, AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S STANDARD SPECIFICATIONS & RECOMMENDATIONS.

6. CONCRETE MASONRY FOR STRUCTURAL WALLS:
   A. ALL REINFORCING IN MASONRY WALLS SHALL CONFORM TO ASTM A615, GRADE 60 AND SHALL BE FULLY ENCLOSED WITH GROUT. USE PEA GRAVEL GROUT WITH MIN. fc = 3,000 PSI.
   B. CONCRETE MASONRY SHALL CONSIST OF LIGHTWEIGHT CONCRETE BLOCK WITH A COMPRESSIVE STRENGTH OF 1,900 PSI.
   C. CONCRETE MASONRY ASSEMBLY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH fm' = 1,500 PSI.
   D. FILL ALL VOIDS AND BLOCK CELLS SOLID WITH MORTAR FOR A DISTANCE OF 24" BENEATH AND 12" EACH SIDE OF ALL BEAM REACTIONS OR OTHER CONCENTRATED LOADS, UNLESS OTHERWISE SHOWN OR NOTED.
   E. STRUCTURAL MASONRY IS TO BE LAID IN TYPE "S" MORTAR IN ACCORDANCE WITH SECTION 2103 OF THE INTERNATIONAL BUILDING CODE. TYPE "N" MASONRY CEMENT MORTAR IS NOT ACCEPTABLE FOR C.M.U. WALLS.
   F. MASONRY WALLS MUST BE ADEQUATELY BRACED DURING CONSTRUCTION TO WITHSTAND WIND AND SEISMIC LOADS. BRACING MUST REMAIN IN PLACE UNTIL ROOF (AND FLOOR) DIAPHRAGMS ARE FULLY CAPABLE OF PROVIDING LATERAL SUPPORT.

7. FOUNDATIONS:
   FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS BY HUDDLESTON-BERRY ENGINEERING & TESTING, LLC, JOB #00208-0112. RECOMMENDATIONS IN THIS REPORT SHOULD BE FOLLOWED.
   A. STEEL PIPE PILES:
      (1) PIPE PILES ARE TO BE 10 3/4"x.375" WALL THICKNESS, WITH A 1" PLATE TIP, FILLED WITH CONCRETE PER THE MIX DESIGN TABLE. PIPE PILES SHALL HAVE A MINIMUM BEARING CAPACITY OF 50 TONS.
      (2) NO PILE DRIVING SHALL BE IN PROGRESS WITHIN A 15'-0" RADIUS OF A NEWLY CONCRETE FILLED PILE OR UNTIL CONCRETE HAS SET FOR SEVEN DAYS.
      (3) ALL PILES ARE TO BE DRIVEN TO REFUSAL INTO THE DENSE GRAVEL & COBBLE LAYER. FOR BID PURPOSES, PILES SHOULD SET UP AT A MINIMUM OF 49 FEET.
      (4) SPLICES ARE TO BE FULL PENETRATION FIELD WELDING TO DEVELOP FULL DESIGN LOAD.
      (5) PILE SET SHOULD BE DETERMINED BY THE JANBU FORMULA OR AN APPROVED EQUIVALENT CALCULATION.
   B. ROTARY DRIVEN PIPE PILES (SCREW PILES) ALTERNATE NO. 1:
      (1) SUBJECT TO THE APPROVAL OF THE SOILS ENGINEER OF RECORD, SCREW PILES MAY BE USED AS AN ALTERNATE TO DRIVEN STEEL PIPE PILES.
      (2) SCREW PILES MUST HAVE A MINIMUM SHAFT DIAMETER OF 5", MINIMUM WALL THICKNESS OF .375", AND A MINIMUM HELIX DIAMETER OF 12".
      (3) A. SCREW PILES SHALL HAVE A MINIMUM SERVICE LOAD COMPRESSIVE CAPACITY OF 100K AND A MINIMUM SERVICE LOAD UPLIFT CAPACITY OF 25K, WITH A FACTOR OF SAFETY = 2.0.
      B. SPLICES OF PIPE SECTIONS MUST HAVE THE CAPACITY TO RESIST THE SERVICE LOADS NOTED ABOVE TIMES THE FACTOR OF SAFETY.
      (4) SCREW PILES MUSH BE DRILLED TO REFUSAL INTO THE UNDERLYING DENSE GRAVEL & COBBLE LAYER. THE AVERAGE LENGTH OF PILES SHOULD BE ASSUMED AT A MINIMUM OF 49 FEET.
   SOILS ENGINEER OF RECORD SHALL BE PRESENT DURING PILE DRIVING TO VERIFY THAT BEARING STRATA HAS BEEN REACHED AND THAT SOIL CAPACITIES HAVE BEEN ATTAINED.

8. SPECIAL INSPECTIONS:
   A. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE SCHEDULE ON SHEET S0-2.

9. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH SHOP DRAWING PREPARATION AND CONSTRUCTION.

10. VERIFY ALL OPENINGS THROUGH FLOORS, ROOF, AND WALLS WITH MECHANICAL AND ELECTRICAL REQUIREMENTS.

11. DEFERRED SUBMITTALS:
   A. DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER AND SUBMITTED TO THE BUILDING OFFICIAL AS REQUIRED BY 2018 I.B.C. 107.3.4.1.
   DEFERRED SUBMITTAL ITEMS INCLUDE:
      1. STRUCTURAL STEEL CONNECTIONS
      2. K-SERIES AND LH-SERIES STEEL OPEN-WEB JOISTS.
      3. METAL STAIRS AND RAILINGS

GENERAL NOTES

1. GOVERNING CODES USED FOR DESIGN:
   2018 INTERNATIONAL BUILDING CODE
   ASCE/SEI 7-16

2. LIVE LOADS USED IN DESIGN:
   A. ROOF:
      FLAT ROOF SNOW LOAD Pf----------30 PSF
      GROUND SNOW LOAD Pg----------36 PSF
      SNOW EXPOSURE FACTOR Ce----------1.0
      SNOW LOAD IMPORTANCE FACTOR Is----------1.2
      THERMAL FACTOR Ct----------1.0
   B. STORAGE ROOMS ----------125 PSF
   C. STAIRS----------100 PSF
   D. LIVING/OFFICE ----------50 PSF
   E. COORIDORS ----------100 PSF
   F. WIND:
      EXPOSURE ----------C
      RISK CATEGORY ----------IV
      V_{ULT} ----------120 MPH
      V_{ASD} ---------- 93 MPH
      COMPONENTS AND CLADDING (BASED ON EFFECTIVE AREA = 18 SQ. FT.)
      TYPICAL WALL AREA (INWARD PRESSURE) ----------16 PSF
      TYPICAL WALL AREA (OUTWARD PRESSURE) ----------16 PSF
      WALL CORNERS (OUTWARD PRESSURE) ----------20 PSF
      TYPICAL ROOF AREA (OUTWARD PRESSURE) ----------22 PSF
      ROOF EAVES, RAKES, RIDGES & CORNERS (OUTWARD PRESSURE) ----------31 PSF
      PARAPETS (INWARD OR OUTWARD PRESSURE) ----------29 PSF
   G. SEISMIC:
      RISK CATEGORY ----------IV
      IMPORTANCE FACTOR (Ie) ----------1.50
      R COEFFICIENT:
      APPARATUS BAY----------2.0
      LIVING QUARTERS AND OFFICES----------7.0
      SPECTRAL RESPONSE COEFFICIENTS:
      Ss ----------0.241
      S1 ----------0.066
      SDS ----------0.257
      SD1 ----------0.105
      SEISMIC RESPONSE COEFFICIENTS:
      Cs (APPARATUS BAY)----------0.193
      Cs (LIVING/OFFICE)----------0.055
      SITE CLASS ----------D
      SEISMIC DESIGN CATEGORY ----------C
      BASIC SEISMIC:
      FORCE RESISTING SYSTEM:
      APPARATUS BAY AND LOCKER ROOMS----------ORDINARY REINFORCED MASONRY SHEAR WALLS
      LIVING QUARTERS AND OFFICES----------WOOD STRUCTURAL PANEL SHEAR WALLS
      DESIGN BASE SHEAR----------140K
      ANALYSIS PROCEDURE ----------EQUIVALENT LATERAL FORCE PROCEDURE

3. CONCRETE:
   A. CONCRETE MIX TABLE (NORMAL WEIGHT CONCRETE):

INTENDED USE	28 DAY STRENGTH F'C (KSI)	MAX W.C. (INCLUDING FLY ASH)	MAX AGGR. (IN)	SLUMP LIMITS (IN) (+/- 1")	TOTAL AIR LIMITS (%) (2)	CEMENT TYPE	CONCRETE TYPE NORMAL WEIGHT-NW LIGHT WEIGHT-LW	REQ'D ADMIXTURES (3)	OTHER REQUIREMENTS (4)
PILE CAPS, GRADE BEAMS, & PILASTERS	4.5	0.45	3/4	4	6	I/II	NW	AE	FAR
INTERIOR SLABS ON GRADE	3.5	0.62	1	4	N	I/II	NW	FAR	SOG
PIPE PILE FILL	3	0.68	3/4	7	N	I/II	NW	--	--

   NOTES:
   (1) FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
      3/4" - #67 AGGREGATE
      1" - #57 AGGREGATE
   (2) TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. 'N' IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED.
   (3) ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS:
      AE = AIR-ENTRAINING ADMIXTURE. DO NOT USE ENTRAINED AIR FOR STEEL TROWELED FINISHED FLOORS.
      WRA = WATER REDUCING ADMIXTURE.
   (4) ABBREVIATIONS FOR OTHER REQUIREMENTS AS FOLLOWS:
      FAR = 15% CLASS F FLY ASH REQUIRED.
      SOG = CONTRACTOR TO VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING. AMOUNT OF CEMENTITIOUS MATERIALS LISTED SHALL BE PROVIDED, DO NOT USE LESS AND DO NOT SUPPLY OVER 5% MORE.
   (5) FOR CONCRETE PLACED BY PUMPING, PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING.
   (6) MINIMUM CEMENTITIOUS MATERIALS SHALL BE 560 LB./CU. YD., WITH A MAXIMUM 20% FLY ASH CONTENT BY WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM WATER SOLUBLE CHLORIDE ION CONTENT SHALL NOT EXCEED 0.1% BY WEIGHT OF CEMENT.

B. ALL REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT COLUMN TIES, BEAM STIRRUPS, AND DOWELS TO SLAB ON GRADE WHICH MAY BE GRADE 40.
C. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. UNLESS OTHERWISE NOTED OR DETAILED ON THE DRAWINGS, LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 40 BAR DIAMETERS. MAKE ALL BARS CONTINUOUS AROUND CORNERS.
D. CONTINUOUS REINFORCEMENT IN GRADE BEAMS SHALL BE SPLICED AS FOLLOWS: TOP BARS AT MIDSPAN, BOTTOM BARS OVER SUPPORTS.
E. DETAIL BARS IN ACCORDANCE WITH A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, LATEST EDITIONS.
F. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE DRAWINGS. DO NOT ATTEMPT TO POSITION ANY REINFORCEMENT BY LIFTING DURING CONCRETE PLACEMENT.
G. REINFORCEMENT PROTECTION SHALL BE AS FOLLOWS:
   (1) CONCRETE POURED AGAINST EARTH----------3"
   (2) FORMED CONCRETE EXPOSED TO EARTH OR WEATHER----------2"
   (3) FORMED STAIRS OR WALLS NOT EXPOSED TO WEATHER----------3/4"
H. PLACE (2) #5 (ONE EACH FACE) TOP & BOTTOM @ EACH SIDE OF OPENING WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE UNLESS OTHERWISE SHOWN OR NOTED.
I. SLABS, BEAMS, AND GRADE BEAMS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT MIDDLE OF SPAN WITH VERTICAL BULKHEADS AND KEYS AS SHOWN PER THE TYPICAL CONCRETE WALL CONSTRUCTION JOINT DETAIL. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

GRAND JUNCTION, COLORADO 81505

GENERAL NOTES

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S0-1

Project Team:

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SPECIAL INSPECTIONS:
A. SPECIAL INSPECTIONS SHALL COMPLY WITH CHAPTER 17 OF THE 2018 I.B.C.
B. STATEMENT OF REQUIRED SPECIAL INSPECTIONS:

SYSTEM OF COMPONENT	VERIFICATION OF INSPECTION TASK	FREQUENCY (DURING TASK LISTED) CONTINUOUS	FREQUENCY (DURING TASK LISTED) PERIODIC	APPLICABLE CODE & SECTION FOR INSPECTION CRITERIA
1) SOILS	a) VERIFY SOILS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X	--
	b) VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL	--	X	--
	c) PERFORM CLASSIFICATION & TESTING OF CONTROLLED FILL MATERIALS	--	X	--
	d) VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT & COMPLETION OF CONTROLLED FILL	X	--	--
	e) OBSERVE SUBGRADE FOR PROPER PREPARATION BEFORE PLACEMENT OF CONTROLLED FILL	- -	X	--
2) PILING	a) VERIFY PILE MATERIALS, SIZES AND LENGTHS COMPLY WITH REQUIREMENTS	X	--	--
	b) OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH PILE	X	--	--
	c) VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM TYPE & SIZE OF HAMMER, RECORD NUMBER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATION TO ACHIEVE DESIGN CAPACITY, RECORD TIP & BUTT ELEVATIONS & DOCUMENT ANY PILE DAMAGE	X	--	--
	d) FOR STEEL ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 5.	X	--	--
	e) FOR CONCRETE FILLED ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 3.	X	--	--
	f) PERFORM WELD INSPECTIONS AT STEEL PILING SPLICES	X	--	AWS D1.1
	g) FOR SPECIALTY PILES, IN ADDITION TO THE ABOVE REQUIREMENTS DETERMINE CAPACITIES OF TEST PILES AND CONDUCT ADDITIONAL LOAD TESTS AS REQUIRED	X	--	--
3) CONCRETE	a) INSPECT REINFORCING STEEL	--	X	ACI 318: 3.5, 7.1-7.7
	b) VERIFY USE OF REQUIRED DESIGN MIX	--	X	ACI 318: CH. 4, 5.2-5.4 IBC 1904.2
	c) INSPECT REINFORCING STEEL WELDING	--	X	AWS D1.4 ACI 318: 3.5.2
	d) FABRICATE TEST SPECIMENS FROM FRESH CONCRETE FOR STRENGTH TESTS, SLUMP & AIR CONTENT TESTS AND TO DETERMINE CONCRETE TEMPERATURE	X	--	ASTM C172 ASTM C31 ACI 318: 5.6, 5.8
	e) INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	--	ACI 318: 5.9, 5.10
	f) INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES	--	X	ACI 318: 5.11- 5.13
	g) INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF CONCRETE MEMBERS BEING FORMED	--	X	ACI 318: 6.1.1
	h) INSPECT ANCHORS CAST INTO CONCRETE.	--	X	ACI 318: 8.1.3, 21.2.8 IBC 1908.5, 1909.1
	i) INSPECT ANCHORS POST-INSTALLED INTO HARDENED CONCRETE MEMBERS.	--	X	ACI 318: 3.8.6, 8.1.3, 21.2.8 IBC 1909.1
4) WOOD	a) INSPECT FABRICATED WOOD STRUCTURAL MEMBERS ASSEMBLED AT FABRICATOR'S SHOP OR PLANT.	--	X	--
	b) VERIFY MATERIAL SPECIES AND GRADES OF DIMENSIONAL LUMBER AND PLYWOOD OR O.S.B.	- -	X	--
	c) VERIFY BOTTOM CHORD AND OTHER BRACING OF STRUCTURAL MEMBERS.	- -	X	--
	d) INSPECT FOR PROPER FASTENING OF WOOD COMPONENTS.	- -	X	IBC TABLE 2304.9.1
5) LATERAL BRACING SYSTEM	a) PERIODICALLY INSPECT NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, AND HOLDOWNS.	--	X	--
6) MASONRY	a) VERIFY f'm OF CONCRETE MASONRY UNITS PRIOR TO CONSTRUCTION.	--	X	ACI 530: Art 2.6A
	b) AS MASONRY CONSTRUCTION BEGINS VERIFY THE FOLLOWING TO ENSURE COMPLIANCE:			
	- PROPORTIONS OF SITE – PREPARED MORTAR	--	X	ACI 530: Art 1.4B
	- CONSTRUCTION OF MORTAR JOINTS	--	X	ACI 530: Art 3.3B
	- LOCATION OF REINFORCEMENT CONNECTORS & ANCHORAGES	--	X	ACI 530: Art 3.4, 3.6A
	c) THE INSPECTION PROGRAM SHALL VERIFY:			
	- SIZE & LOCATION OF STRUCTURAL ELEMENTS	--	X	ACI 530: Art 3.36
	- TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS	--	X	ACI 530: SECTION 1.22(e), 7.1.4, 3.1.6
	- SPECIFIED SIZE, GRADE, AND TYPE OF REINFORCEMENT	--	X	ACI 530: SECTION 1.13, Art 2.4, 3.4
	- WELDING OF REINFORCING BARS	X	--	ACI 530: SECTION 2.1.10.7.2, 3.3.34(B)
	- PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40°F) OR HOT WEATHER (TEMP ABOVE 90°F)	--	X	IBC 2104.3, 2104.4 ACI 530 Art 1.8C, 1.8D
	d) PRIOR TO GROUTING, VERIFY THE FOLLOWING TO ENSURE COMPLIANCE:			
	- GROUT SPACE IS CLEAR	--	X	ACI 530: Art 3.2D
	- PLACEMENT OF REINFORCEMENT, CONNECTORS & ANCHORAGES	--	X	ACI 530: SECTION 1.13, Art 3.4
	- PROPORTIONS OF SITE PREPARED GROUT	--	X	ACI 530: Art 2.6B
	- CONSTRUCTION OF MORTAR JOINTS	--	X	ACI 530: Art 3.3B
	e) VERIFY GROUT PLACEMENT TO ENSURE COMPLIANCE WITH CODE & CONSTRUCTION DOCUMENT PROVISIONS	X	--	ACI 530: Art 3.5
	f) OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS	X	--	IBC 2105.2.2, 2105.3 ACI 530: Art 1.4
	g) VERIFY COMPLIANCE WITH INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND COMPLIANCE WITH THE APPROVED SUBMITTALS	--	X	ACI 530: Art 1.5
7) STEEL	a) MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS & WASHERS			
	- IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	APPLICABLE ASTM MATERIAL SPEC. AISC 360, SECTION A3.3
	- MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	--	X	--
	b) INSPECTION OF HIGH-STRENGTH BOLTING OF BEARING TYPE CONNECTIONS	--	X	AISC 360, SECTION M2.5 IBC SECTION 1704.3.3
	c) MATERIAL VERIFICATION OF STRUCTURAL STEEL:			
	- IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	ASTM A6 OR A568 IBC SECTION 1708.4
	- MANUFACTURER'S CERTIFIED MILL TEST REPORTS	--	X	ASTM A6 OR A568 IBC SECTION 1708.4
	d) MATERIAL VERIFICATION OF WELD FILLER MATERIALS:			
	- IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	AISC 360, SECTION A3.5
	- MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	--	X	--
	e) INSPECTION OF WELDING			
	1) COMPLETE & PARTIAL PENETRATION GROOVE WELDS	X	--	AWS D1.1 AISC 360 N5.4-N5.5
	2) MULTI-PASS FILLET WELDS	X	--	AWS D1.1 AISC 360 N5.4-N5.5
	3) SINGLE PASS FILLET WELDS > 5/16"	X	--	AWS D1.1 AISC 360 N5.4-N5.5
	4) SINGLE PASS FILLET WELDS < 5/16"	--	X	AWS D1.1 AISC 360 N5.4-N5.5
	5) FLOOR & ROOF DECK WELDS	--	X	AWS D1.3
	f) STUD SHEAR CONNECTOR SIZES, SPACING, MATERIALS & QUANTITY	X	--	AISC 360, SECTION N6
	g) WELDING OF STUD SHEAR CONNECTORS	--	X	AWS D1.1
	h) INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS	--	X	AISC 360 N5.7
8) STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	a) MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK:			
	1) IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	--	X	APPLICABLE ASTM MATERIAL SPEC.
	2) MANUFACTURER'S CERTIFIED TEST REPORTS	--	X	--
	b) INSPECTION OF WELDING:			
	1) COLD-FORMED STEEL DECK:			
	a) FLOOR AND ROOF DECK WELDS	--	X	AWS D1.3
	2) REINFORCING STEEL			
	a) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	--	X	AWS D1.4 ACI 318: SECTION 3.5.2
	b) SHEAR REINFORCEMENT	X	--	AWS D1.4 ACI 318: SECTION 3.5.2
	c) OTHER REINFORCING STEEL	--	X	AWS D1.4 ACI 318: SECTION 3.5.2
9) SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE	a) STRUCTURAL STEEL			
	- INSPECTION OF STRUCTURAL STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM	--	X	AISC 341
	b) TESTING AND QUALIFICATION FOR SEISMIC RESISTANCE			
	- TEST STRUCTURAL STEEL ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM IN ACCORDANCE WITH AISC QUALITY ASSURANCE REQUIREMENTS	--	X	AISC 341
	- VERIFY STEEL REINFORCEMENT USED IN CONCRETE ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM BY CERTIFIED MILL TEST REPORTS FOR EACH SHIPMENT OF REINFORCEMENT	--	X	ACI 318, SECTION 21.1.5.2
	- FOR WELDED REINFORCING STEEL OTHER THAN ASTM A706 IN CONCRETE ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEM, PERFORM CHEMICAL TESTS TO VERIFY WELDABILITY	--	X	ACI 318, SECTION 3.5.2
	c) INSPECTION AND SEISMIC CERTIFICATION OF NON-STRUCTURAL COMPONENTS			
	1) INSPECT INSTALLATION AND ANCHORAGE OF MECHANICAL AND ELECTRICAL COMPONENTS REQUIRING ANCHORAGE AGAINST SEISMIC FORCES	--	X	IBC SECTION 1705.11.6, ASCE 7, SECTION 13.6
	2) CERTIFY BY TESTING OR EXPERIENCE DATA THAT MECHANICAL AND ELECTRICAL EQUIPMENT WILL REMAIN OPERABLE FOLLOWING THE DESIGN SEISMIC GROUND MOTION	--	X	IBC SECTION 1705.11.4, IBC SECTION 1705.12.3
	a) FOR SYSTEMS REQUIRING SEISMIC CERTIFICATION, VERIFY THAT LABELS, ANCHORAGE, OR MOUNTING CONFORM TO THE CERTIFICATE OF COMPLIANCE	--	X	IBC SECTION 1705.12.3, ASCE 7, SECTION 13.2
	3) INSPECT FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES IN SEISMIC ISOLATION SYSTEMS	--	X	IBC SECTION 1705.11.8
	4) TEST SEISMIC ISOLATION SYSTEMS	--	X	ASCE 7, SECTION 17.8

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

GRAND JUNCTION, COLORADO 81505

SCHEDULE OF SPECIAL INSPECTIONS

FOR CONSTRUCTION

REV. DESC. DATE:

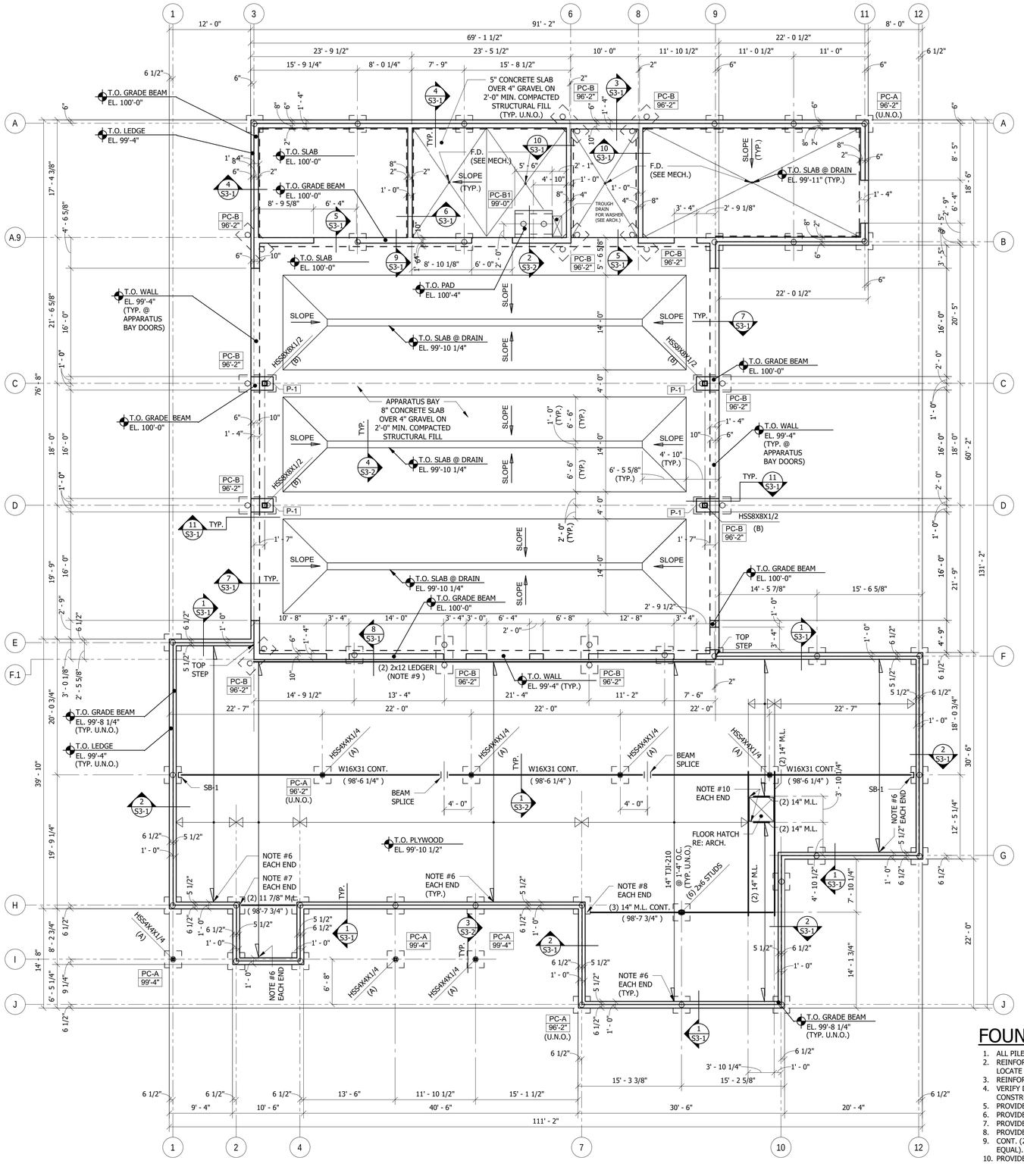
DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S0-2

Project Team:
Print Date: 2/24/2021 2:09:54 PM



FOUNDATION PLAN

1/8" = 1'-0"

NORTH

1. ALL PILE CAPS SHALL BE CENTERED ON GRADE BEAMS (TYP. U.N.O.).
2. REINFORCE 5" CONCRETE SLABS ON GRADE W/ #4 @ 16 EA. WAY. PLACE REINFORCEMENT IN TOP HALF OF SLAB ON CHAIRS. DO NOT LOCATE REINFORCEMENT BY LIFTING DURING CONCRETE PLACEMENT.
3. REINFORCE 8" CONCRETE SLAB W/ #4 @ 10 EACH WAY, TOP AND BOTTOM. OMIT CONTROL JOINTS AT 8" SLAB.
4. VERIFY DOOR OPENING LOCATIONS AND ROUGH OPENING DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
5. PROVIDE (2) #5x 2'-0" / 2'-0" TOP AT DOOR DEPRESSIONS. PROVIDE #4x 2'-0" / 2'-0" DOWELS @ 16" O.C. INTO INTERIOR SLABS.
6. PROVIDE TYPE "ITS2.06/14" TOP FLANGE HANGER.
7. PROVIDE TYPE "MBHU3.56" HANGER.
8. PROVIDE TYPE "HGUM5.50-SDS" HANGER.
9. CONT. (2) 2x12 LEDGER W/ (2) 3/4"Ø HILTI HAS-E ANCHORS @ 1'-4" O.C. W/ 8" MIN. EMBEDMENT (PROVIDE HILTI HIT HY 200 OR EQUAL).
10. PROVIDE TYPE "IUS3.56/14" HANGER.

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FOUNDATION PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/25/2021

PROJECT #: 20.104

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S1-1

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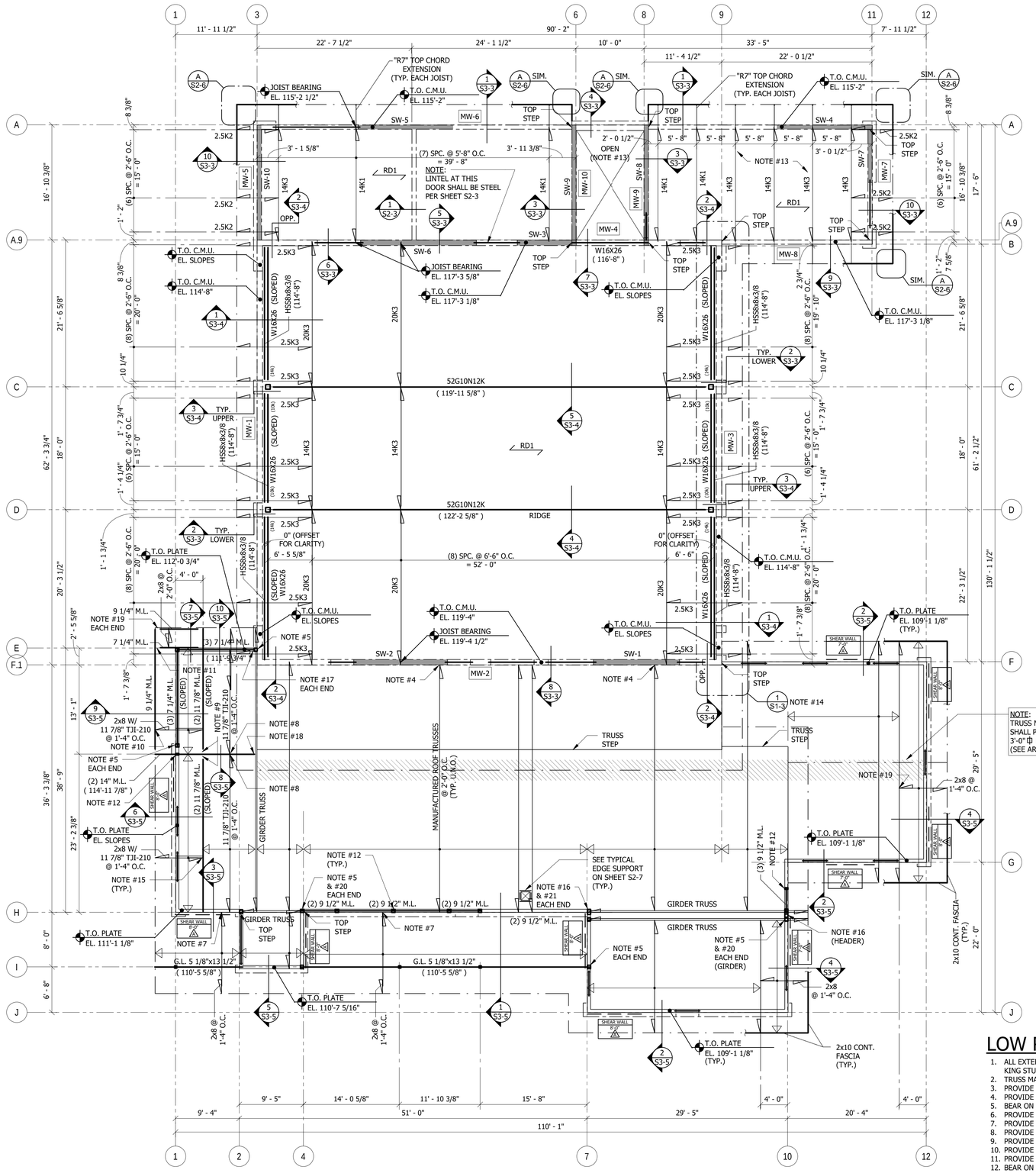

LOW ROOF FRAMING PLAN

1/8" = 1'-0" NORTH

1. ALL EXTERIOR WINDOW AND DOOR HEADERS IN WOOD FRAMED WALLS SHALL BE (2) 2x10. BEAR EACH END ON (1) 2x6 TRIMMER W/ (1) 2x6 KING STUD (TYP. U.N.O.).
2. TRUSS MANUFACTURER SHALL SPECIFY ALL WOOD TRUSS HANGER CONNECTIONS.
3. PROVIDE JOIST BRIDGING IN ACCORDANCE WITH S.J.I. SPECIFICATIONS.
4. PROVIDE TYPE "HU210" HANGER. ATTACH TO C.M.U. W/ (8) 1/4"Ø x2 3/4" TITAN MASONRY SCREWS.
5. BEAR ON (4) 2x6 STUDS.
6. PROVIDE BEAM POCKETS. SEE SHEET S2-3 & APPLICABLE SECTIONS. GROUT SOLID BELOW BEAM BEARING TO FOUNDATION.
7. PROVIDE TYPE "LSSJ28" HANGER.
8. PROVIDE TYPE "LSSR2.12" HANGER.
9. PROVIDE TYPE "LSSR410Z" HANGER.
10. PROVIDE TYPE "LUS26" HANGER UPSIDE-DOWN.
11. PROVIDE TYPE "HU7" HANGER UPSIDE-DOWN.
12. BEAR ON (2) 2x6 STUDS.
13. SEE SHEET S1-3 FOR MEZZANINE & TOWER ROOF FRAMING PLANS.
14. SEE SHEET S1-3 FOR LOUVER SUPPORT FRAMING PLAN.
15. PROVIDE TYPE "IUS3.56/11.88" HANGER UPSIDE-DOWN.
16. BEAR ON (6) 2x6 STUDS.
17. PROVIDE TYPE "HUC68" HANGER.
18. PROVIDE TYPE "HUC416" HANGER.
19. PROVIDE TYPE "LS50" CLIP.
20. PROVIDE TYPE "HTS16" STRAP TO CONNECT GIRDER TRUSS TO STUD PACK.
21. PROVIDE TYPE "HTS16" STRAP EACH SIDE OF GIRDER TRUSS.

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LOW ROOF FRAMING PLAN

FOR CONSTRUCTION

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S1-2

Project Team:

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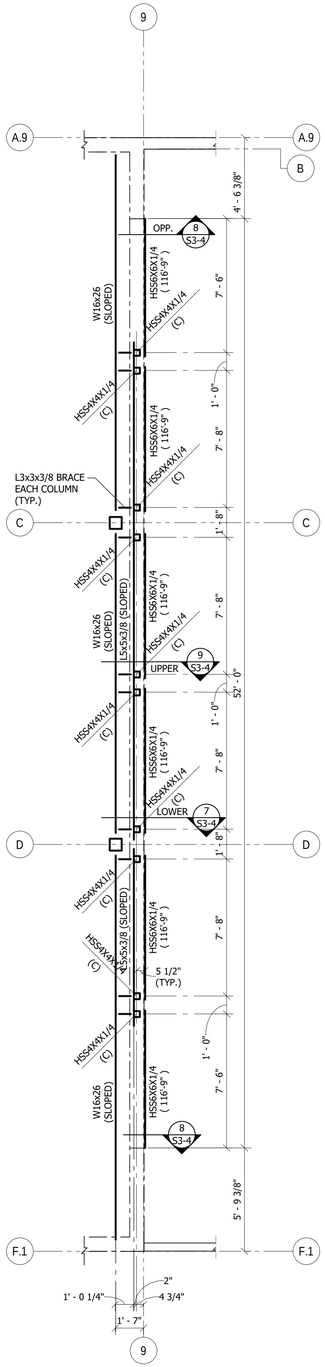
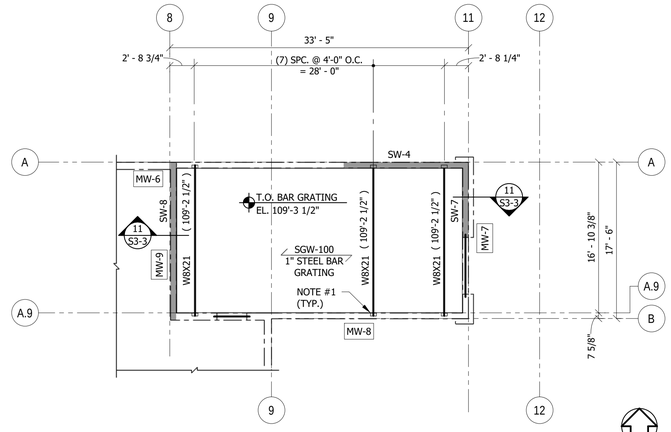


1 S1-3 LOUVER SUPPORT FRAMING PLAN

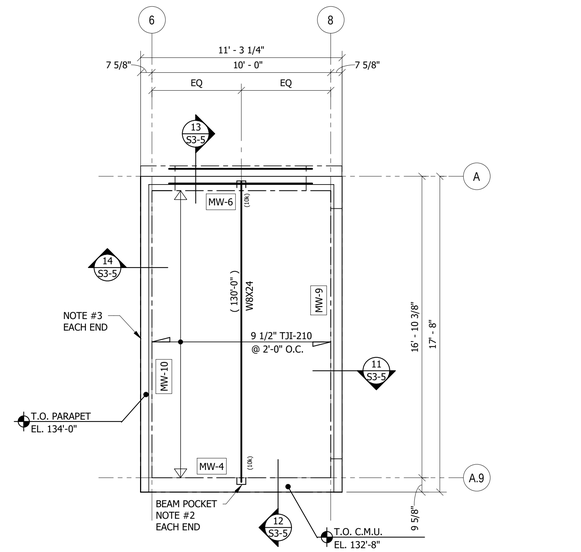
1/4" = 1'-0" NORTH



MEZZANINE FRAMING PLAN

1/8" = 1'-0" NORTH

1. SEE SHEET S2-3 FOR BEAM BEARING DETAILS.
2. BAR GRATING SHALL BE 1/8" x 1" x 1 3/16" SPACING "GW-100A" BY MC NICHOLS (OR EQUAL). SPLICE AS REQUIRED AT SUPPORT BEAM CENTERS.
3. ATTACH GRATING TO STEEL SUPPORTS W/ TYPE "GG1A" SADDLE CLIPS BY MC NICHOLS (OR EQUAL). FASTENERS SHALL BE USED AT EACH EDGE OF GRATING PANEL @ EVERY SUPPORT (TYP.).



TOWER ROOF FRAMING PLAN

1/4" = 1'-0" NORTH

1. TOP OF STEEL ELEVATION NOTED THUS: (XXX'-XX").
2. SEE BEAM BEARING PLATE SCHEDULE ON SHEET S2-3.
3. PROVIDE TYPE "ITS2.06/9.5" TOP FLANGE HANGER.

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

GRAND JUNCTION, COLORADO 81505

TOWER ROOF, LOUVER SUPPORT, & MEZZANINE FRAMING PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S1-3

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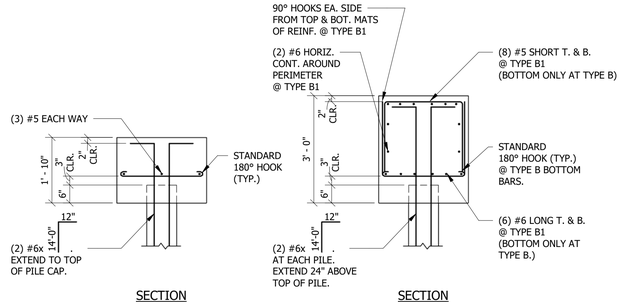
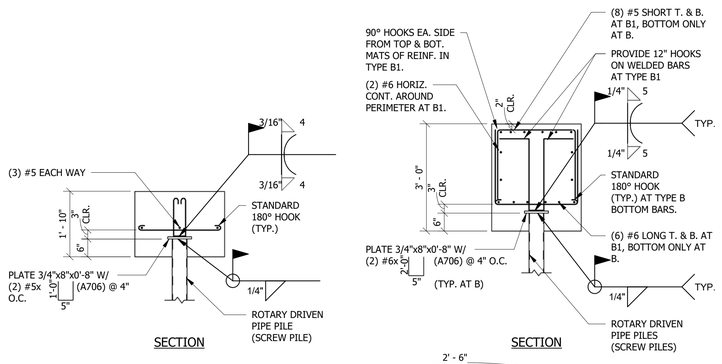


PC-A
(100K CAPACITY)

PC-B, B1
(200K CAPACITY)

TYPICAL PILE CAP DETAILS - BASE BID 1/2" = 1'-0"



PC-A
(100K CAPACITY)

PC-B, B1
(200K CAPACITY)

ROTARY DRIVEN PIPE PILE CAP DETAILS - BID ALTERNATE #1 1/2" = 1'-0"

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GRAND JUNCTION FIRE
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STATION #3

GRAND JUNCTION, COLORADO
81505

PILE CAP DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S2-1

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LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE

BAR SIZE		F'c = 3,000							F'c = 4,000							F'c = 5,000						
		COMPRESSION		TENSION					COMPRESSION		TENSION					COMPRESSION		TENSION				
ENGLISH	METRIC	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER	LCE	LCS	LDH	LTE TOP	LTE OTHER	LTS TOP	LTS OTHER
#3	#10	8	12	6	21	16	28	21	8	12	6	18	14	24	18	8	12	6	17	13	22	17
#4	#13	11	15	8	28	22	37	28	9	15	7	25	19	32	25	9	15	6	22	17	29	22
#5	#16	14	19	10	36	27	46	36	12	19	8	31	24	40	31	11	19	7	28	21	36	28
#6	#19	16	23	12	43	33	56	43	14	23	10	37	28	48	37	14	23	9	33	25	43	33
#7	#22	19	26	13	62	48	81	62	17	26	12	54	42	70	54	16	26	10	48	37	63	48
#8	#25	22	30	15	71	55	93	71	19	30	13	62	47	80	62	18	30	12	55	42	72	55
#9	#29	25	34	17	80	62	105	80	21	34	15	70	54	91	70	20	34	13	62	48	81	62
#10	#32	28	38	19	90	70	118	90	24	38	17	78	60	102	78	23	38	15	70	54	91	70
#11	#36	31	42	22	100	77	131	100	27	42	19	87	67	113	87	25	42	17	78	60	101	78

NOTES:

GENERAL:

1. 'LCE' = COMPRESSION EMBEDMENT LENGTH
   'LCS' = COMPRESSION LAP SPLICE LENGTH
   'LTE' = TENSION EMBEDMENT LENGTH
   'LTS' = TENSION LAP SPLICE LENGTH
   'LDH' = HOOK DEVELOPMENT LENGTH
2. 'TOP' BARS ARE ALL HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE.
3. ALL BARS THAT ARE NOT 'TOP' BARS ARE 'OTHER' BARS.
4. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE (LESS 2" COVER) AND HOOK.

LAP SPLICE NOTES:

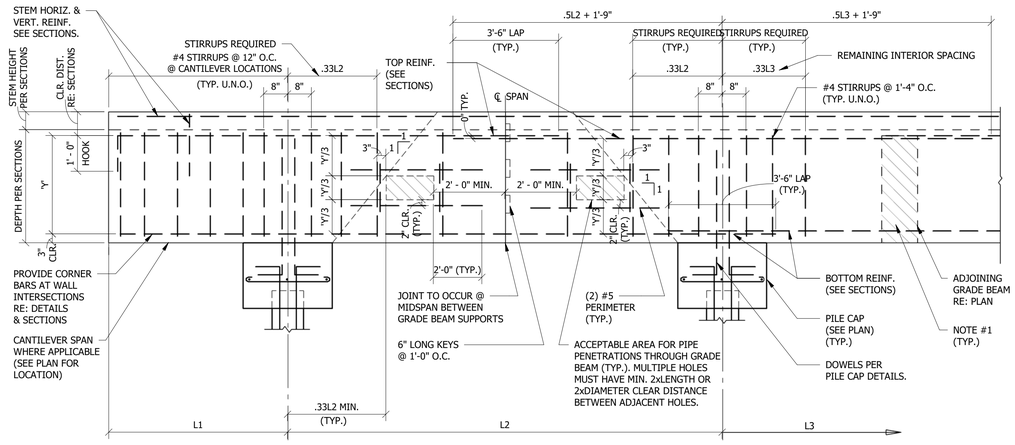
1. ALL SPLICES SHALL BE WIRED IN CONTACT, STACKED VERTICAL.
2. ALL SPLICES ARE 'LTS' UNLESS NOTED OTHERWISE.
3. SMALLER BAR LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS.
4. LAP LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED.
5. BUNDLED BAR SPLICES:
   A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL BE STAGGERED.
   B. INCREASE LAP LENGTH 20% FOR A (3) BAR BUNDLE.
   C. INCREASE LAP LENGTH 33% FOR A (4) BAR BUNDLE.
6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED ld (DEVELOPMENT LENGTH) INTO CONCRETE, THIS LENGTH SHALL CORRESPOND TO A 'LTE' LAP.

ADJUSTMENT(S) TO GIVEN LAP LENGTHS:

1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LAP LENGTHS BY 50%.
2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%.
3. SCHEDULED LAP LENGTHS ASSUME:
   A. CLEAR COVER IS GREATER THAN BAR DIAMETER, BUT NOT LESS THAN 3/4".
   B. CLEAR SPACING BETWEEN BARS IS GREATER THAN (2) BAR DIAMETERS.
   C. THE TRANSVERSE REINFORCEMENT INDEX K, IS ASSUMED TO BE ZERO.
   D. IF EITHER CONDITION A OR B IS NOT MET FOR A GIVEN BAR, INCREASE LENGTHS BY 50%.
4. SPLICE LENGTHS NOTED BASED ON Fy = 60,000 PSI. FOR OTHER YIELD STRENGTHS, MULTIPLY SPLICE LENGTHS NOTED BY Fy/60,000.

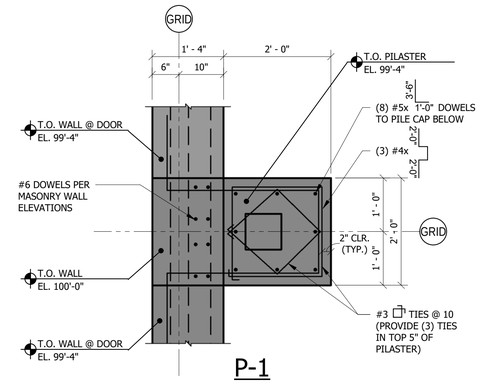
HOOK EMBEDMENT NOTES:

1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
   A. SIDE COVER IS 2 1/2 INCHES OR GREATER.
   B. COVER BEYOND IS 2 INCHES OR GREATER.
2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LAP LENGTHS BY 20%.
3. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP LENGTHS BY 30%.
4. IF SIDE COVER IS LESS THAN 2 1/2 INCHES, INCREASE LENGTHS BY 40%.



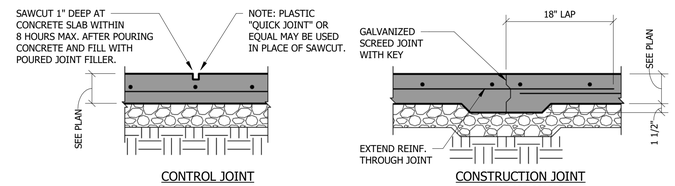
TYPICAL GRADE BEAM ELEVATION N.T.S.

1. WHERE ADJOINING PERPENDICULAR GRADE BEAM(S) ATTACH IN THE INTERIOR OF SPANS L2 OR L3 GRADE BEAM, PIPE PENETRATIONS ARE NOT PERMITTED.
2. GRADE BEAM PIPE PENETRATIONS ARE NOT PERMITTED AT CANTILEVER LOCATIONS.

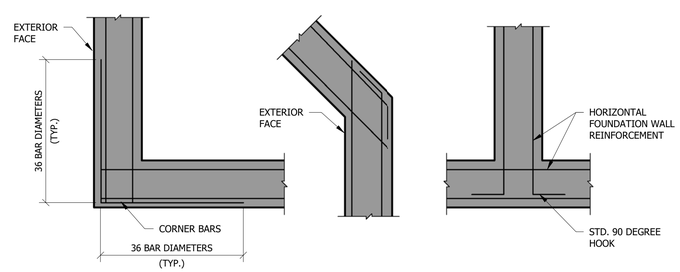


P-1

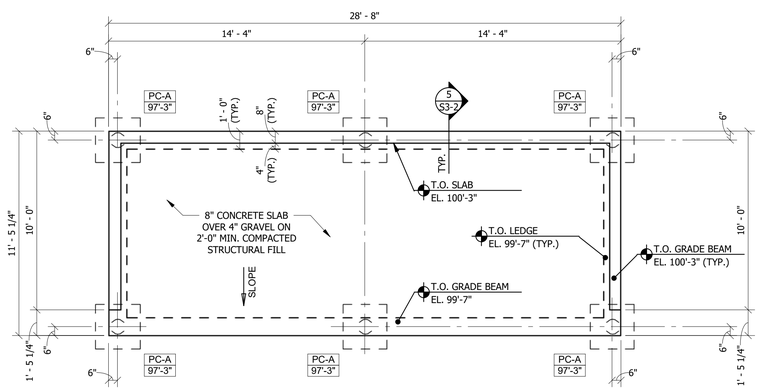
PILASTER DETAILS 3/4" = 1'-0"



TYPICAL SLAB JOINT DETAILS 1" = 1'-0"



TYPICAL CORNER DETAILS 1" = 1'-0"



UTILITY ENCLOSURE PLAN 1/4" = 1'-0"

1. SEE ARCH. & CIVIL DRAWINGS FOR LOCATION ON SITE.
2. REINFORCE 8" CONCRETE SLAB W/ #4 @ 16 EACH WAY TOP & BOTTOM. DO NOT CUT CONTROL JOINTS IN SLAB.

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

GRAND JUNCTION, COLORADO 81505

TYPICAL FOUNDATION DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

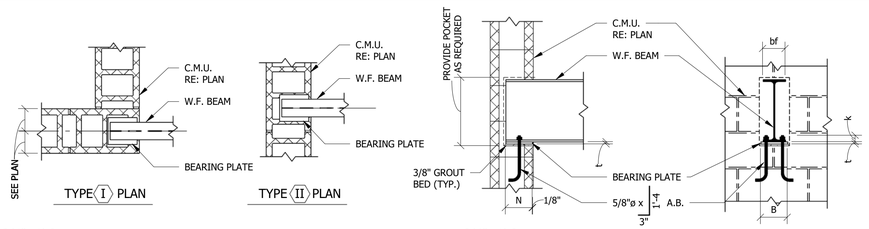
SHEET #:

S2-2

Project Team:

Print Date: 2/25/2021 11:26:30 AM

BEAM BEARING PLATES ON C.M.U.



3/4"=1'-0

TYPE I							
BEAM DEPTH	CAPACITY (SERVICE) KIPS	MIN. k	MIN. bf	N 8" / 10"	B	t	# BOLTS
W8, W10	10	5/8"	4"	4" / 8"	6"	1/2"	(1)
W10, W12	15	11/16"	4"	6" / 8"	7"	1/2"	(2)
W12, W14	19	7/8"	5"	6" / 8"	7"	1/2"	(2)

NOTES:
1. CAPACITIES ARE BASED UPON fm' = 1,500 psi. AND MINIMUM MASONRY BEARING (Fp) = .26F'm (SPECIAL INSPECTION REQUIRED).
2. Fy OF BEARING PLATES = 36 ksi.
3. SEE TYPICAL CORNER WITH BEAM BEARING FOR C.M.U. CORNER REINFORCING.

3/4"=1'-0

TYPE II							
BEAM DEPTH	CAPACITY (SERVICE) KIPS	MIN. k	MIN. bf	N 8" / 10"	B	t	# BOLTS
W8, W10	10	5/8"	4"	4" / 6"	6"	1/2"	(1)
W10, W12	15	11/16"	4"	6" / 8"	7"	1/2"	(2)
W12, W14	24	7/8"	5"	6" / 8"	9"	3/4"	(2)
W16, W18	30	1 1/16"	6"	6" / 8"	11"	7/8"	(2)
W18, W21	34	15/16"	6"	6" / 8"	12 1/2"	1"	(2)
W21, W24	38	1 3/8"	7"	6" / 8"	14"	1 1/4"	(2)

NOTES:
1. CAPACITIES ARE BASED UPON fm' = 1,500 psi. AND MINIMUM MASONRY BEARING (Fp) = .26F'm (SPECIAL INSPECTION REQUIRED).
2. Fy OF BEARING PLATES = 36 ksi.

STEEL LOOSE LINTEL SCHEDULE

OPENING	LINTEL		BEARING EA. END	REMARKS
	4" VENEER	8" C.M.U.		
3'-6" OR LESS	L 3 1/2x3x1/4	(2) L 3 1/2x3x1/4	4"	S.L.V.
OVER 3'-6" THRU 5'-6"	L 4x3 1/2x1/4	(2) L 4x3 1/2x1/4	6"	L.L.V.
OVER 5'-6" THRU 7'-6"	L 6x3 1/2x5/16	(2) L 6x3 1/2x5/16	6"	L.L.V.
OVER 7'-6"	SEE PLAN			

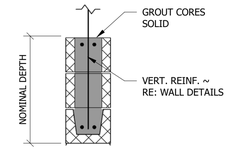
1. FOR OPENINGS OVER 6'-0", PROVIDE SOLID MASONRY JAMB UNDER LINTEL EACH SIDE OF OPENING.

C.M.U. REINFORCING SCHEDULE

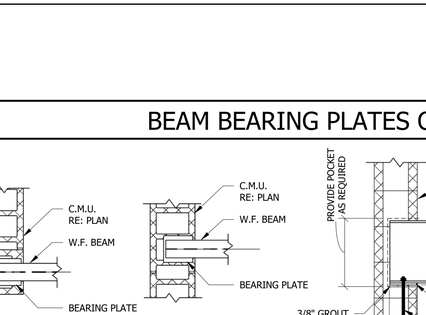
1. PROVIDE #5 @ 32 VERTICAL REINFORCING AT 8" C.M.U. AND #6 @ 24 VERTICAL REINFORCING AT 10" C.M.U. GROUT ALL VERTICAL REINFORCING SOLID. VERTICAL REINFORCEMENT SHALL EXTEND THROUGH BOND BEAMS TO 2" CLR. BELOW TOP OF C.M.U. USE STANDARD LADDER TYPE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. WITH MINIMUM (2) #9 SIDE RODS AT EACH LADDER.
2. PROVIDE (2) #5 CONT. EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS. EXTEND 2'-0" MINIMUM EACH SIDE OF OPENING. GROUT SOLID.
3. LAP ALL VERTICAL REINFORCING AS FOLLOWS:
   #4 - MINIMUM OF 2'-0"
   #5 - MINIMUM OF 2'-4"
   #6 - MINIMUM OF 3'-4"
4. PROVIDE #5 x 4'-0" DOWELS @ 24 FROM GRADE BEAMS TO 8" C.M.U. LAP 2'-4" WITH WALL VERTICAL REINFORCEMENT AND GROUT SOLID. PROVIDE #6 x 5'-2" DOWELS @ 24 FROM GRADE BEAMS TO 10" C.M.U. LAP 3'-6" WITH WALL VERTICAL REINFORCEMENT AND GROUT SOLID.

ALTERNATE REINFORCED MASONRY LINTEL SCHEDULE

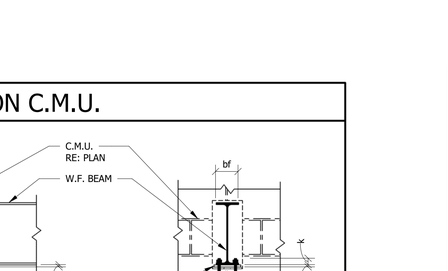
TYPE	CLEAR SPAN	NOMINAL DEPTH	REINF.	TYPICAL DETAIL
A	2'-0" TO 4'-0"	16"	(2) #4 BOT.	
B	4'-4" TO 8'-0"	32"	(2) #5 T.&B.	



NOTES:
1. CLEAR SPAN INDICATES THE ROUGH MASONRY OPENING WIDTH.
2. PROVIDE 8" MIN. BEARING FOR CLEAR SPAN 8'-0" OR LESS AND 16" MIN. BEARING FOR CLEAR SPAN GREATER THAN 8'-0".
3. EXTEND TOP & BOTTOM REINFORCEMENT 2'-0 BEYOND EDGE OF OPENING EACH SIDE. TERMINATE TOP REINFORCEMENT W/ STD. HOOK AT CONTROL JOINTS OR FREE EDGES.
4. PROVIDE SOLID GROUTED OR SOLID MASONRY JAMB UNDER LINTEL EACH SIDE OF OPENING.

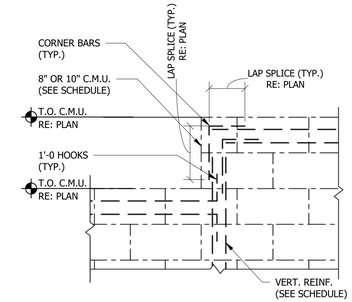


@ PARALLEL TO JOIST

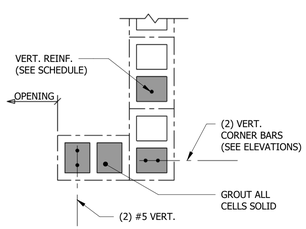


@ ROOF DECK

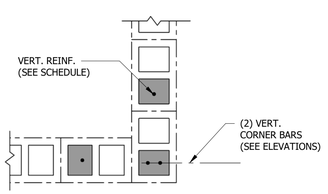
1 S2-3 TYP. INT. MASONRY WALL CONNECTIONS 3/4" = 1'-0"



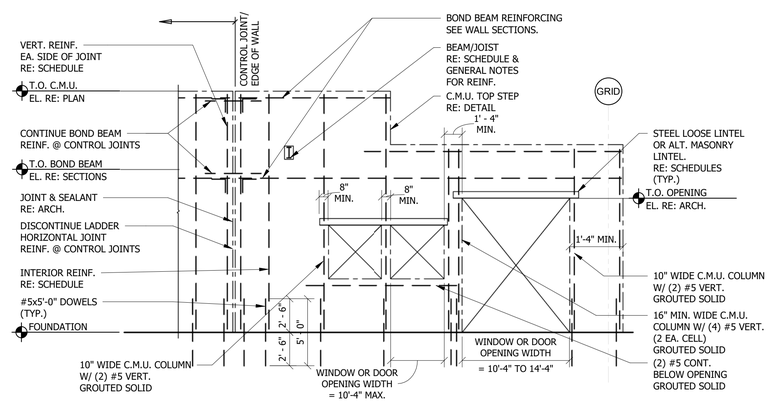
TYP. C.M.U. TOP STEP DETAIL 3/4" = 1'-0"



C.M.U. EDGE OPENING 3/4" = 1'-0"



C.M.U. CORNER REINF. 3/4" = 1'-0"



TYPICAL C.M.U. WALL ELEVATION N.T.S.

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TYPICAL MASONRY DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

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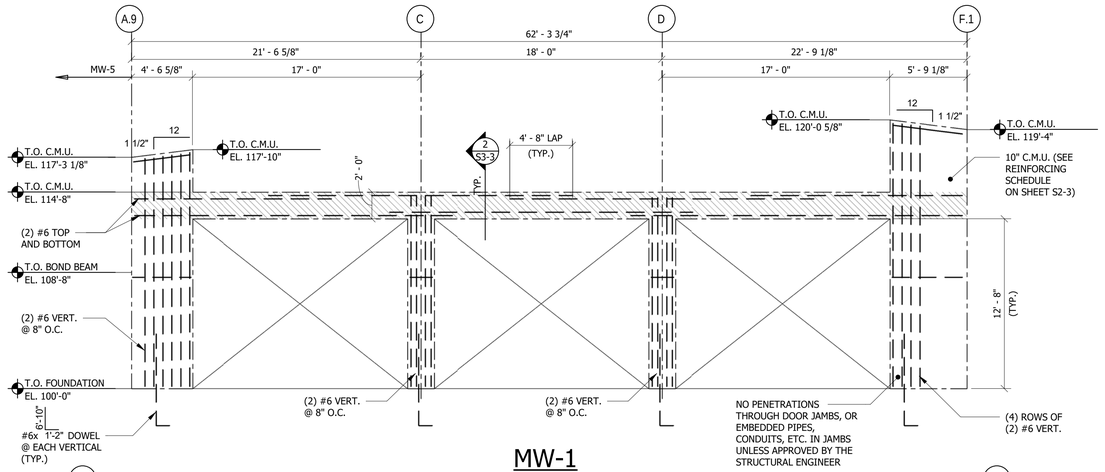
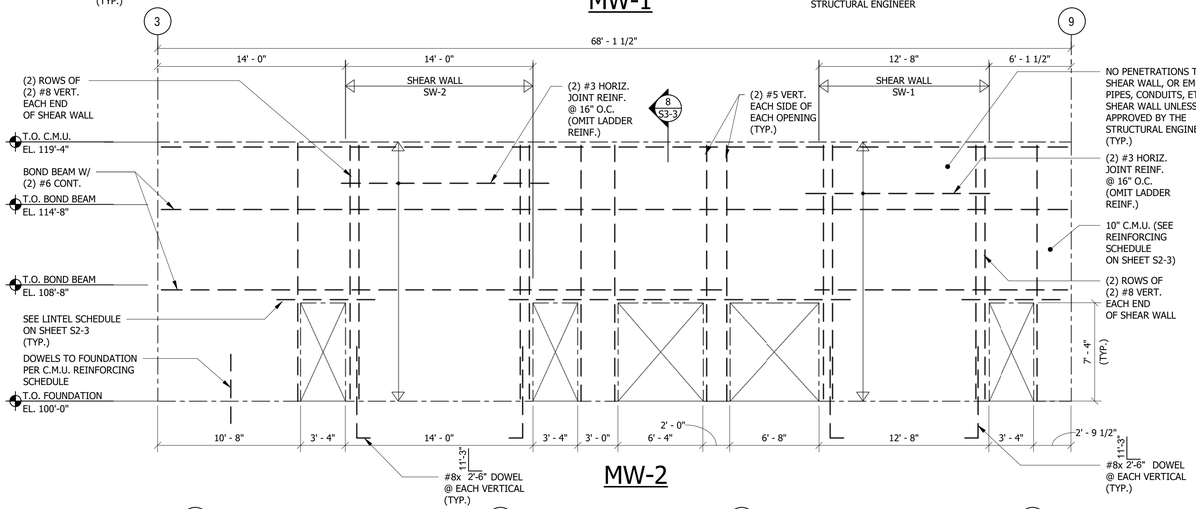


MW-1



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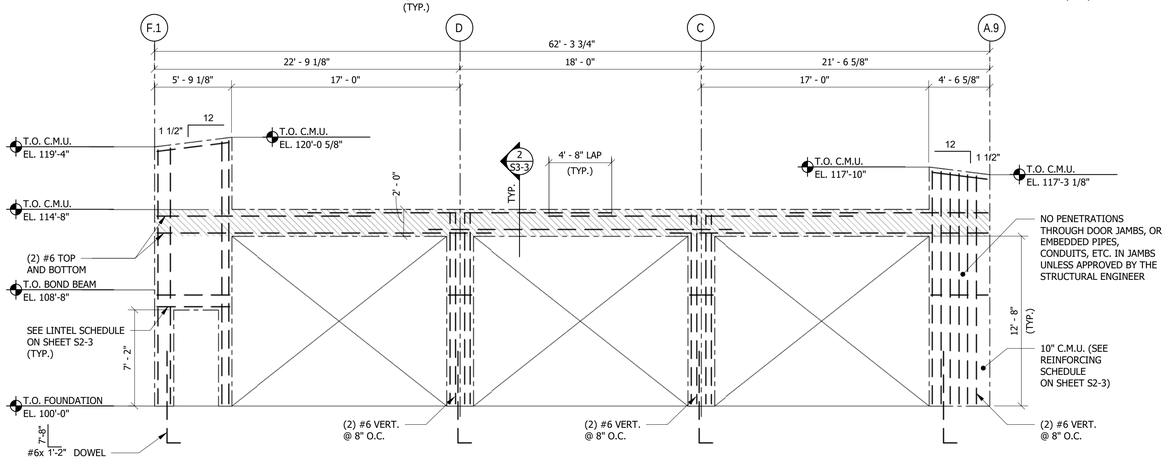

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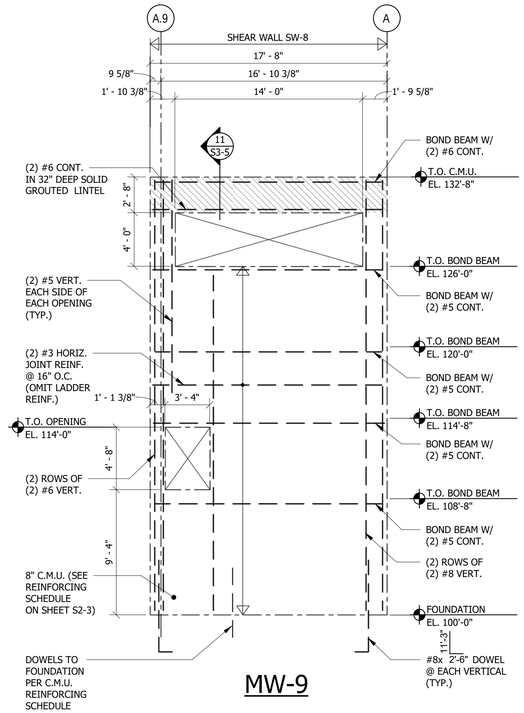

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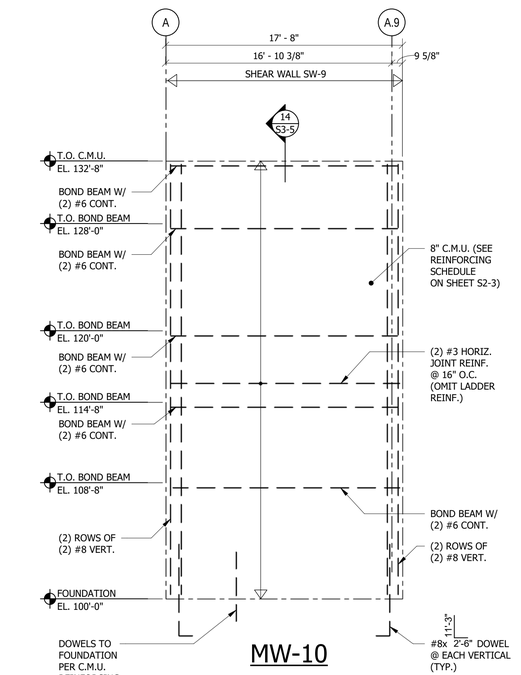

MW-10

MASONRY WALL ELEVATIONS

3/16" = 1'-0"

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C.M.U. WALL ELEVATIONS

FOR CONSTRUCTION

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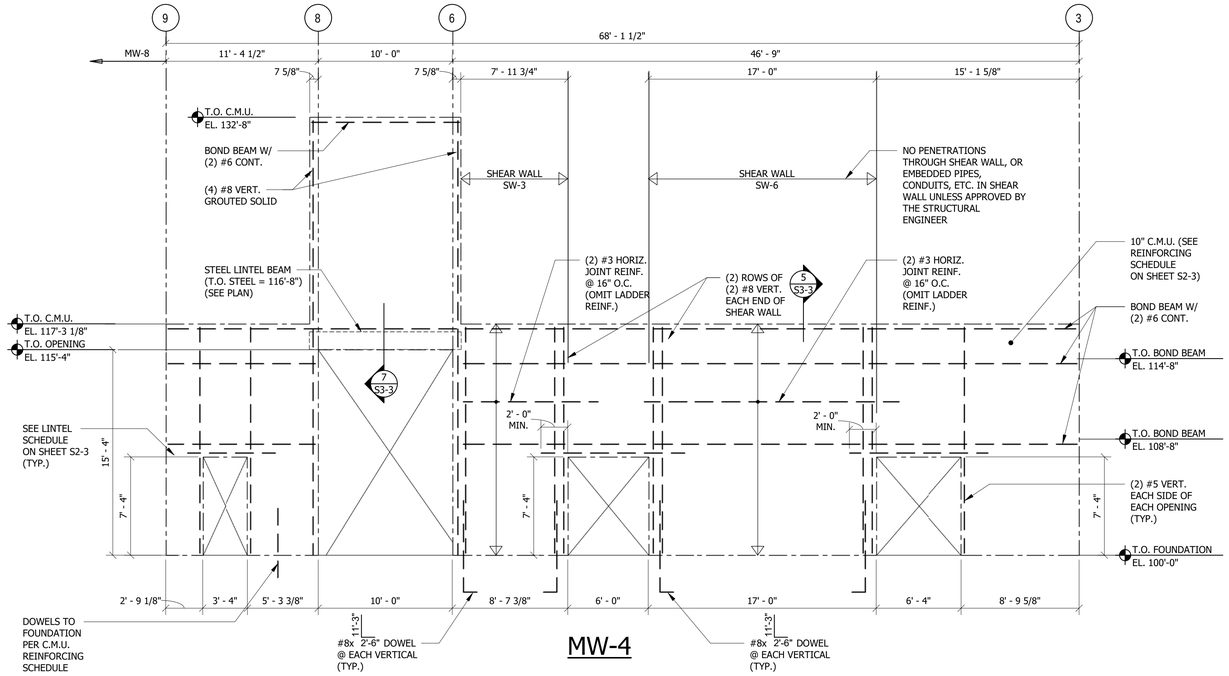

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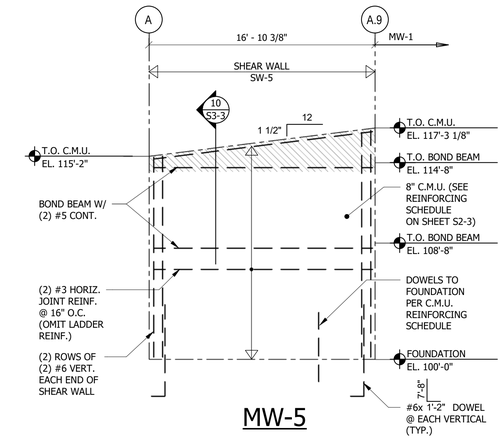

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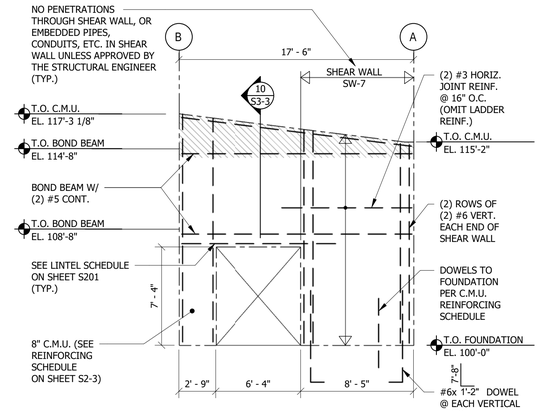

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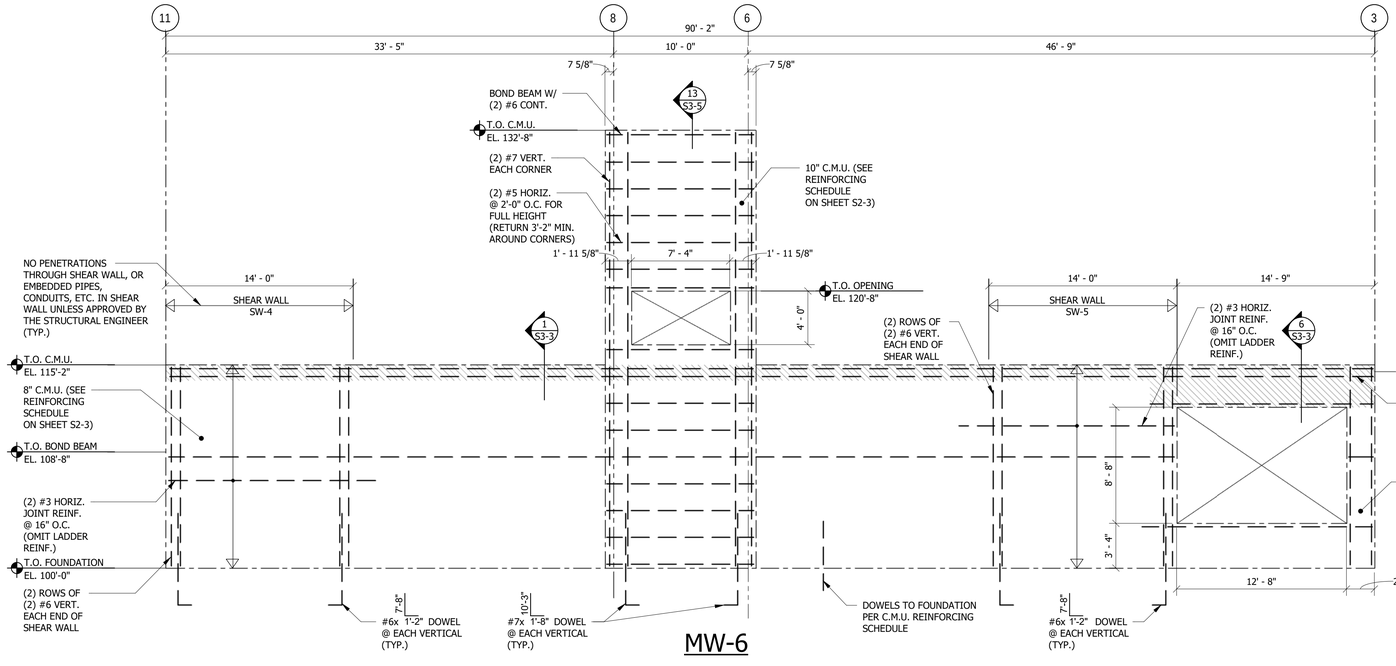

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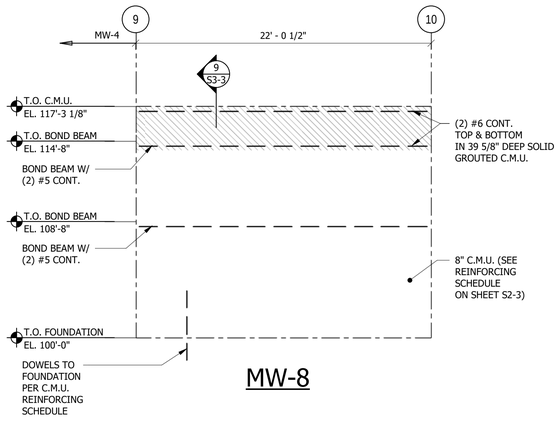

MW-8

MASONRY WALL ELEVATIONS

3/16" = 1'-0"

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C.M.U. WALL ELEVATIONS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S2-5

Project Team:
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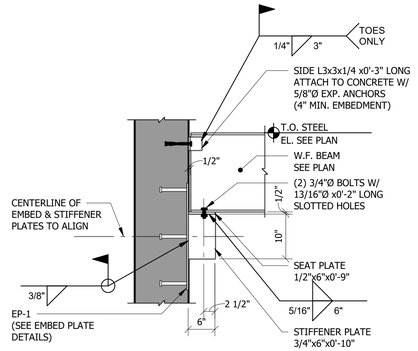
STEEL DECK SCHEDULE

DECK				CONCRETE SLAB				DECK PROPERTIES (MINIMUMS)							FASTENERS		COMMENTS
DECK MARK	DECK TYPE	DECK DEPTH (in.)	DECK FINISH	CONC. ABOVE DECK (in.)	TOTAL THICKNESS (in.)	CONC. TYPE	SLAB REINF.	SPAN CONDITION	DECK GAUGE	MAX. CLEAR CONST. SPAN	INT. DECK BRG. (in.)	EXT. DECK BRG. (in.)	DECK DIAPHRAGM SHEAR (PLF)	SUPERIMPOSED LOAD CAPACITY (UNIFORM OR CONCENTRATED)	SUPPORTS	SIDE LAPS	
RD1	1.5B	1 1/2	SHOP PAINTED	--	--	--	--	1-2 SPAN	18	7'-8"	3	1 1/2	364	120 PSF	5/8" PUDDLE WELDS 36/4 PATTERN	(4) #10 TEK SCREWS EA. SPAN	ROOF DECK
								3 SPAN	18	8'-6"	3	1 1/2	364	120 PSF			

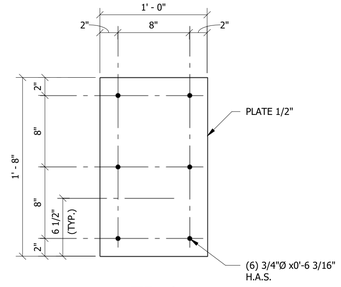
NOTES:
1. SEE GENERAL NOTES FOR REQUIRED DECK MATERIALS.
2. DECK WITH HIGHER YIELD STRESS MAY BE USED WITH SP & SN REQUIRED VALUES ADJUSTED BY THE RATIO OF Fy(40)/Fy(PROVIDED).
3. ROOF DECK CAPACITIES ARE TOTAL LOADS AND ARE BASED UPON SUPPORT CENTER TO CENTER DIMENSION.
4. LAP EDGES AND ENDS OF ADJOINING W.W.F. SHEETS AT LEAST TWO MESH SPACINGS.
5. NO PERMANENT SUSPENDED LOADS ARE TO BE SUPPORTED BY THE STEEL DECK.



SB-1

SEATED BEAM DETAILS

3/4" = 1'-0"

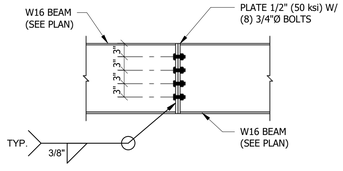


EP-1

EMBED PLATE DETAILS

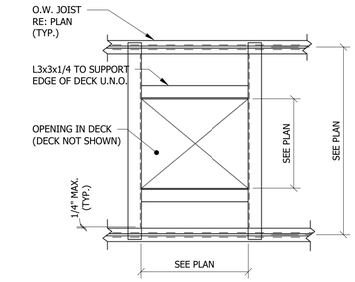
1 1/2" = 1'-0"

1. ALL REINFORCING STEEL DOWELS SHALL BE ASTM A706, GRADE 60W.
2. H.A.S. LENGTHS SPECIFIED ARE BEFORE WELDING.



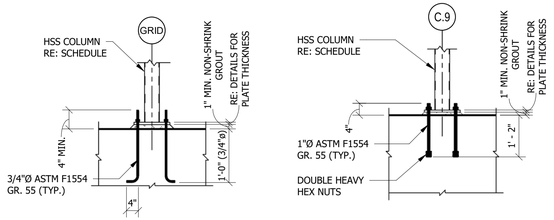
BEAM SPLICE DETAIL

3/4" = 1'-0"



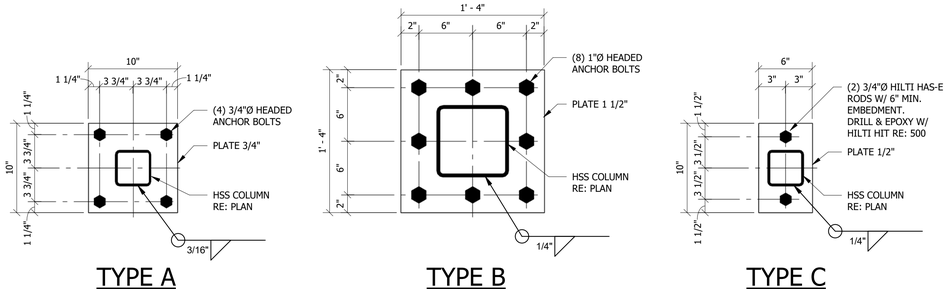
TYP. EDGE SUPPORT @ METAL ROOF DECK PEN.

N.T.S.



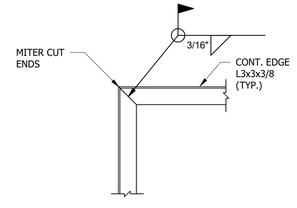
TYPICAL ANCHOR BOLT DETAILS

1/2" = 1'-0"



TYPICAL BASE PLATE DETAILS

1 1/2" = 1'-0"



DETAIL A S2-6

1" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

GRAND JUNCTION, COLORADO 81505

TYPICAL STEEL FRAMING DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 02/25/2021

PROJECT #: 20.104

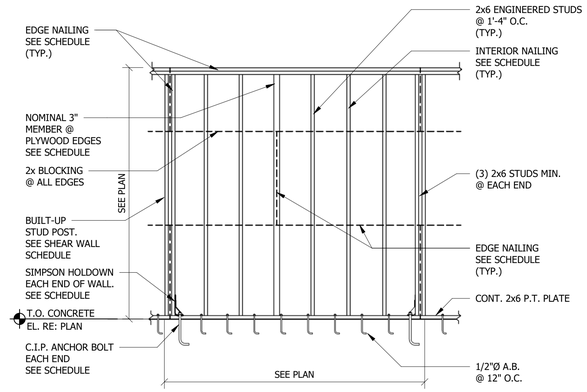
SHEET #:

S2-6

Project Team:
Print Date: 2/24/2021 2:10:51 PM

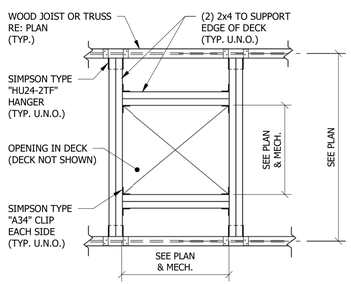
PLYWOOD/SHEAR WALL NAILING SCHEDULE							
USE		PLYWOOD THICKNESS	SPAN/INDEXRATIO	EDGE NAILING	INTERIOR NAILING	HOLD DOWN	HEADED ANCHOR BOLT
ROOF		19/32"	32/16	10d @ 4" O.C. (BOUNDARIES) 10d @ 6" O.C. (ALL OTHER EDGES)	10d @ 12" O.C.	--	--
WALL		15/32"	24/0	8d @ 6" O.C.	8d @ 12" O.C.	--	--
SHEAR WALL:	A	15/32"	24/0	10d @ 2" O.C.	10d @ 12" O.C.	"HD12"	1"Ø

1. PLYWOOD FOR ROOFS, FLOORS, AND SHEAR WALL SHEATHING SHALL BE APA GRADE TRADEMARKED CDX W/ EXTERIOR GLUE. LAY UP PLYWOOD W/ FACE GRAIN PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS. ALL NAILS SHALL BE COMMON NAILS; RING SHANKED FOR ROOF AND FLOOR SHEATHING. REFER TO TABLE ABOVE FOR USE REQUIREMENTS.
2. OSB SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD W/ PRIOR APPROVAL OF OWNER AND CONTRACTOR. OSB SHEATHING SHALL COMPLY WITH THE APA PLYWOOD DESIGN SPECIFICATION AND SHALL HAVE A SPAN RATING EQUIVALENT TO, OR BETTER, THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES.
3. ALL EDGES OF ROOF SHEATHING SHALL BE BLOCKED WITH A 2" NOMINAL WOOD FRAMING MEMBER.
4. AT ABUTTING SHEAR WALL PANEL EDGES, STUDS SHALL BE NO LESS THAN A SINGLE 3" NOMINAL MEMBER AND NAILS SHALL BE STAGGERED.
5. PROVIDE (3) 2" NOMINAL STUDS AND HOLDOWNS AT EACH END OF SHEAR WALL.
6. HOLDOWNS LISTED ARE BY SIMPSON STRONG-TIE. ALTERNATES MUST BE EQUIVALENT AND MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
7. HEADED ANCHOR BOLTS AT HOLDOWNS SHALL CONFORM TO ASTM F1554 GRADE 55. ANCHORS SHALL HAVE A MINIMUM EMBEDMENT OF 2'-0" AND SHALL HAVE A MINIMUM PROJECTION OF 6".



TYPICAL SHEAR WALL ELEVATION 3/8"=1'-0"

1. NO OPENINGS ALLOWED IN SHEAR PANELS UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
2. ANCHOR BOLTS AT HOLDOWNS SHALL CONFORM TO ASTM F1554 GRADE 55.



TYP. EDGE SUPPORT @ PLYWOOD ROOF DECK PEN. N.T.S.

PROVIDE OPENING SUPPORTS FOR ALL ROOF PENETRATIONS 6"Ø AND LARGER.

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TYPICAL WOOD FRAMING DETAILS

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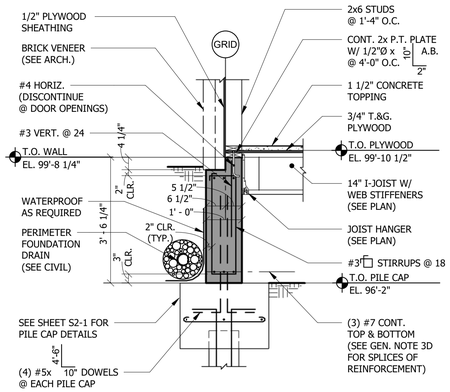
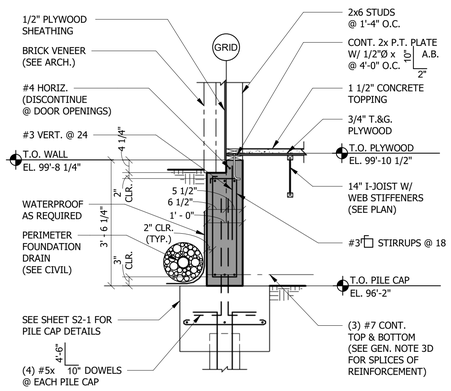


SECTION 1 S3-1 1/2" = 1'-0"



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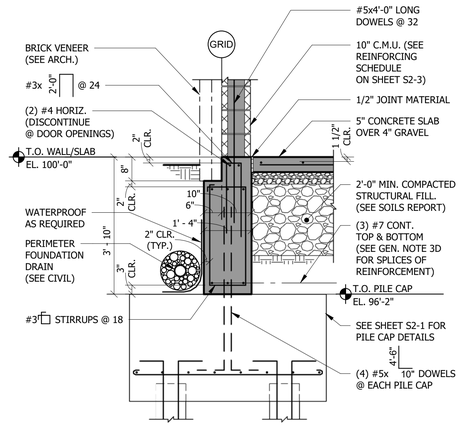
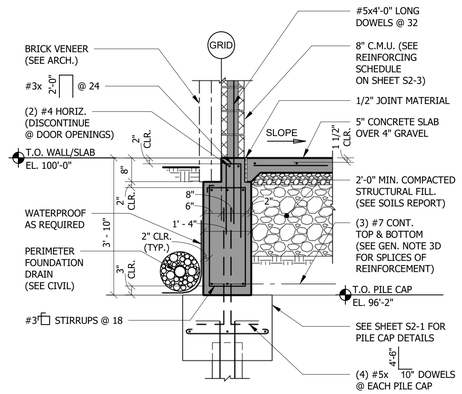


SECTION 3 S3-1 1/2" = 1'-0"



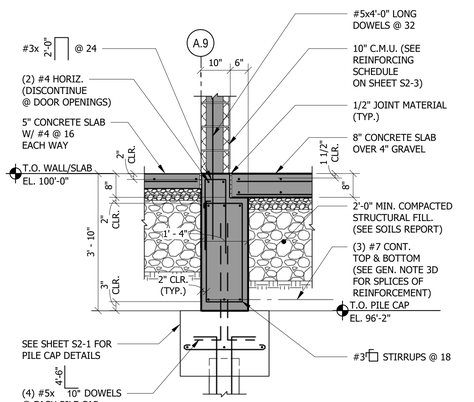
SECTION 4 S3-1 1/2" = 1'-0"

SECTION 5 S3-1 1/2" = 1'-0"

SECTION 6 S3-1 1/2" = 1'-0"

SECTION 7 S3-1 1/2" = 1'-0"

SECTION 8 S3-1 1/2" = 1'-0"



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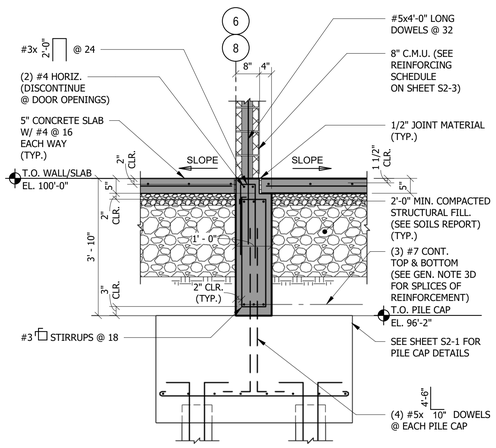
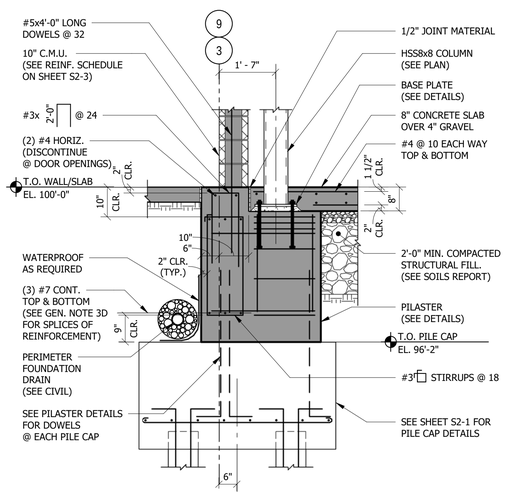


SECTION 10 S3-1 1/2" = 1'-0"



SECTION 11 S3-1 1/2" = 1'-0"

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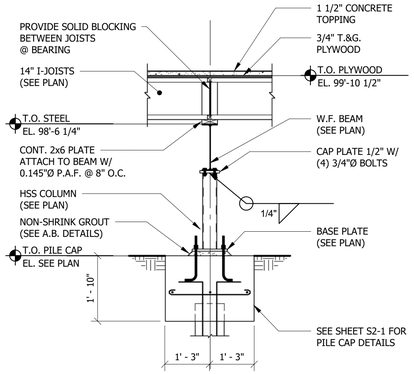

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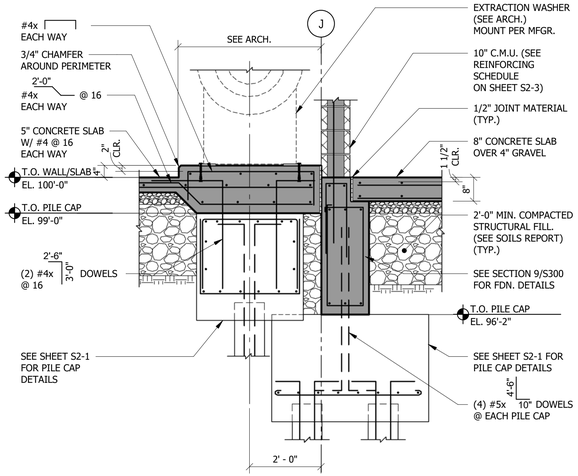

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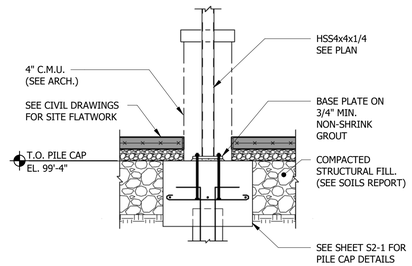
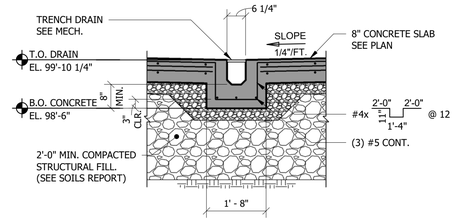


SECTION 3 S3-2 1/2" = 1'-0"



SECTION 4 S3-2 1/2" = 1'-0"

SECTION 5 S3-2 1/2" = 1'-0"

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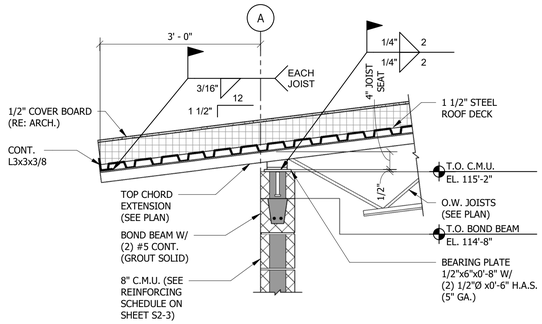
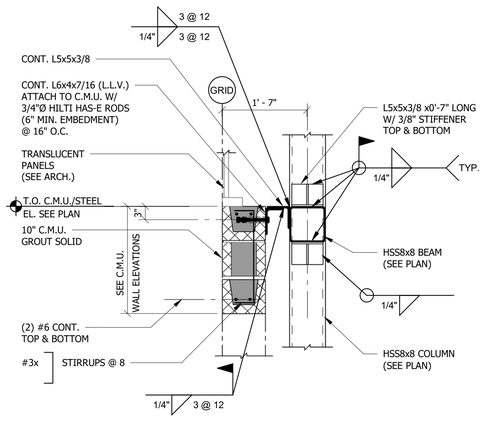


SECTION 1 S3-3 3/4" = 1'-0"



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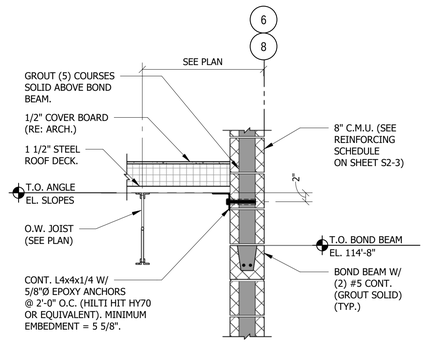

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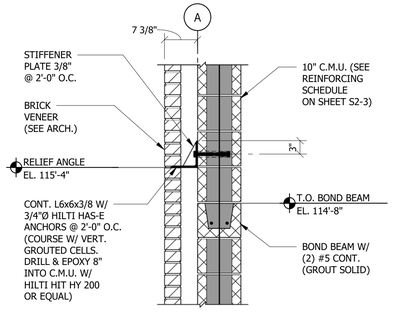

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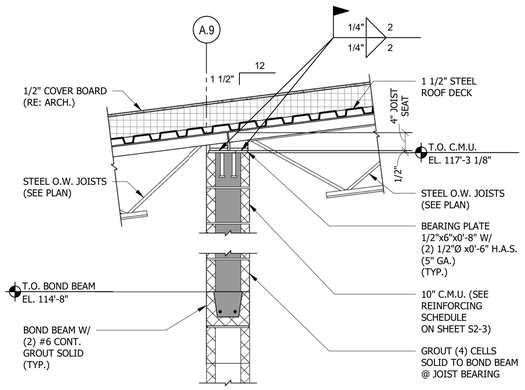

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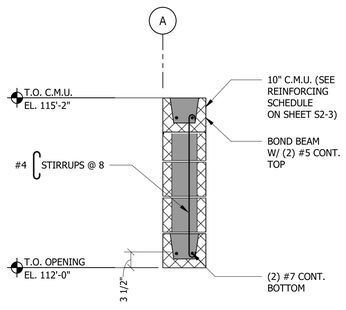

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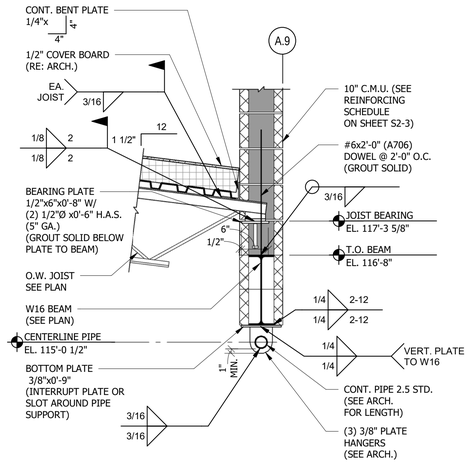

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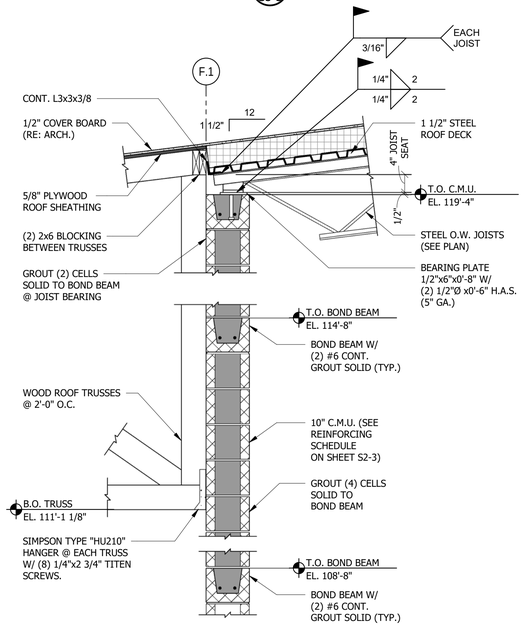
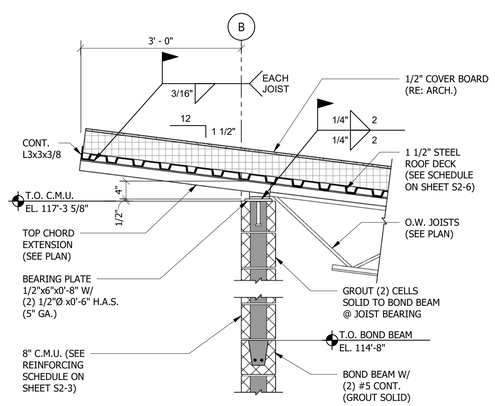
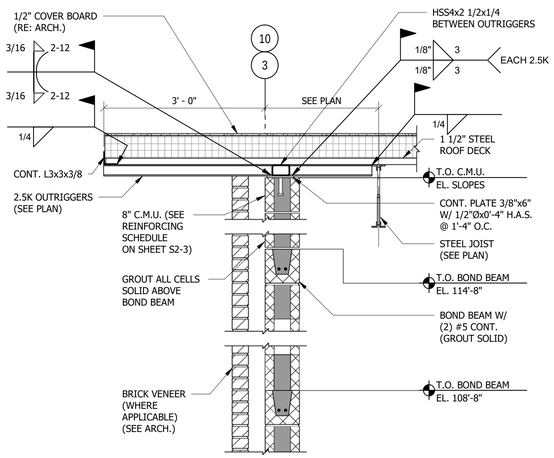


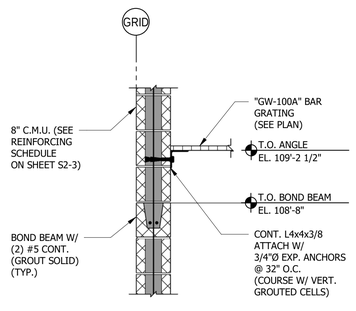
SECTION 8 S3-3 3/4" = 1'-0"



SECTION 9 S3-3 3/4" = 1'-0"



SECTION 10 S3-3 3/4" = 1'-0"



SECTION 11 S3-3 3/4" = 1'-0"

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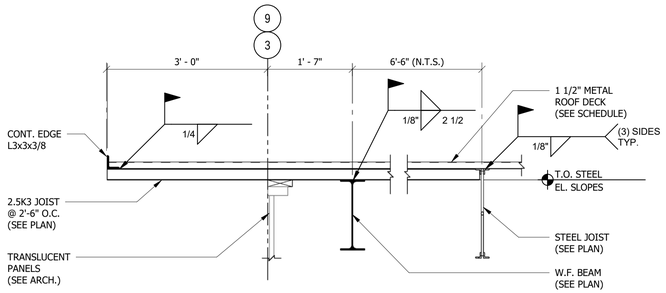

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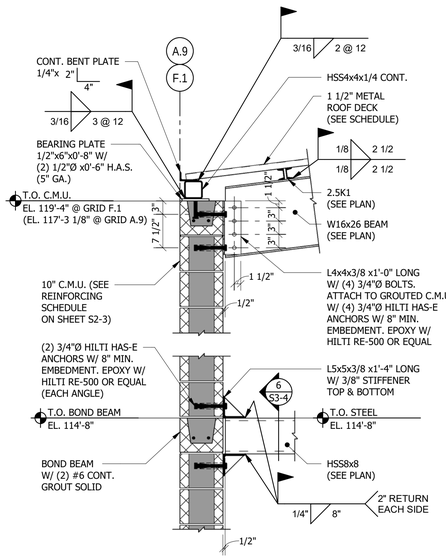

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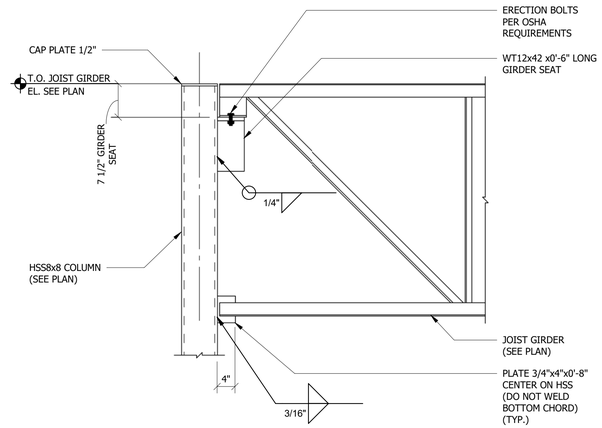
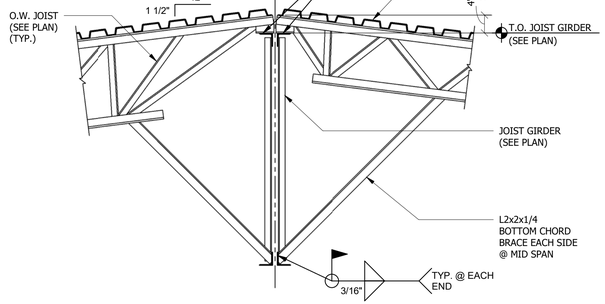


SECTION 3 S3-4 3/4" = 1'-0"



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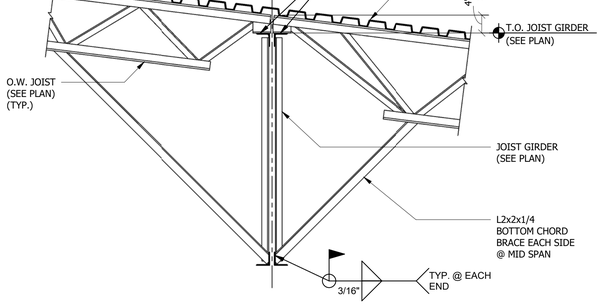

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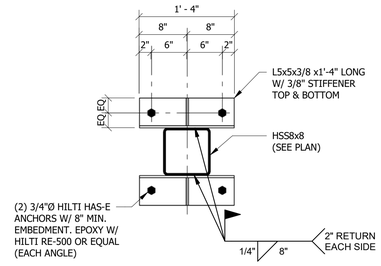

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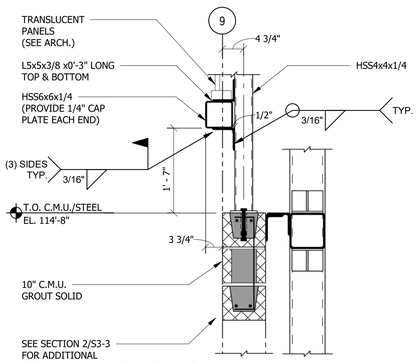
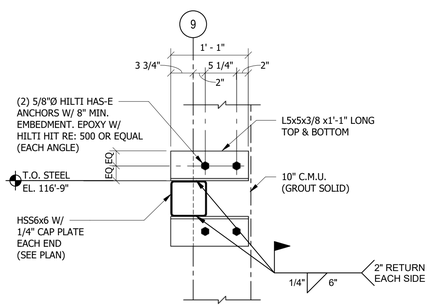
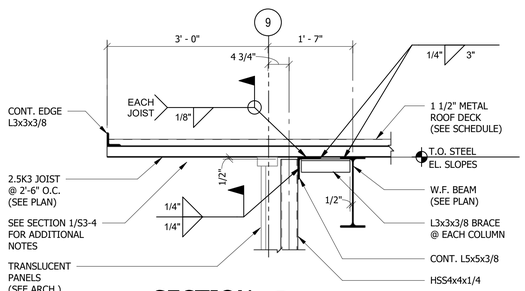


SECTION 7 S3-4 3/4" = 1'-0"



SECTION 8 S3-4 1" = 1'-0"



SECTION 9 S3-4 3/4" = 1'-0"

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FRAMING SECTIONS

FOR CONSTRUCTION

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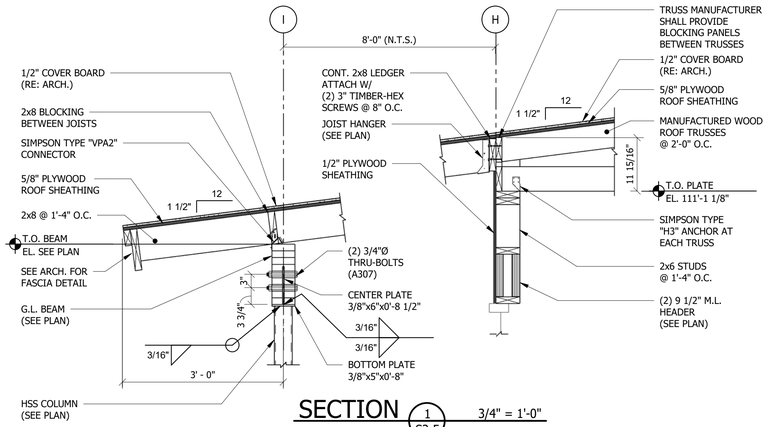

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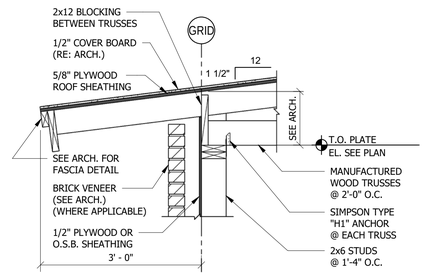

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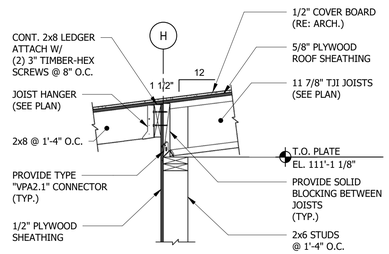

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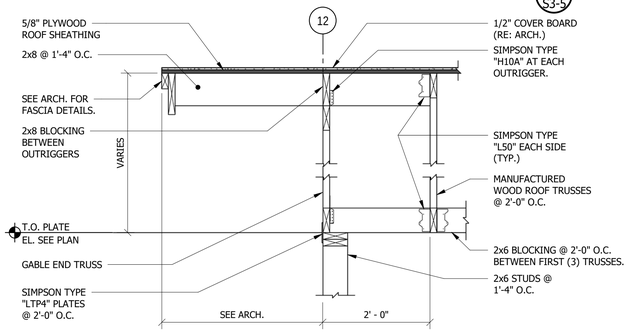
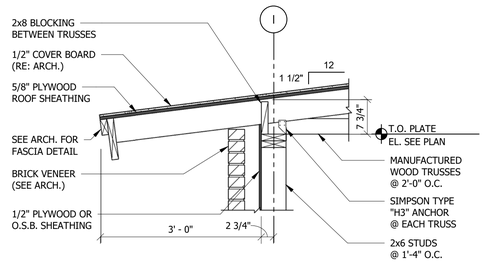
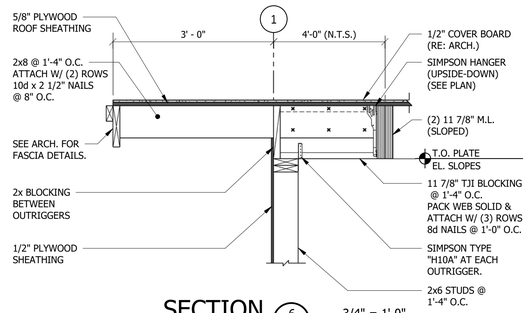


SECTION 4 S3-5 3/4" = 1'-0"



SECTION 5 S3-5 3/4" = 1'-0"



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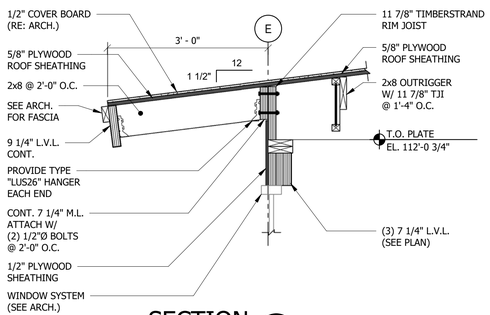

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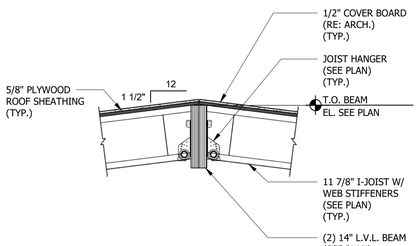
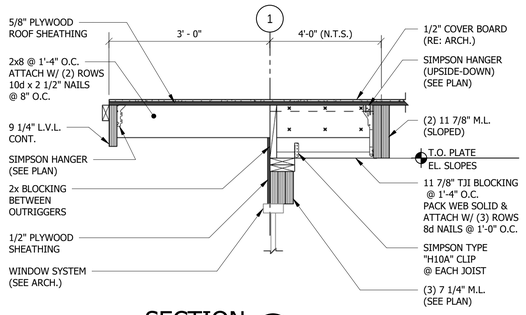
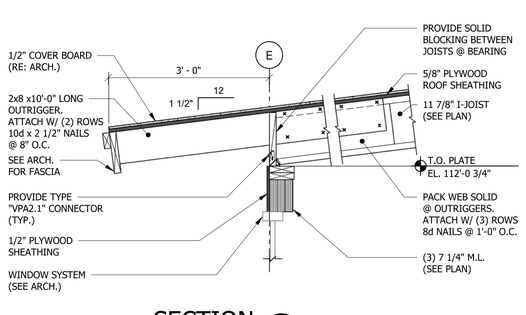


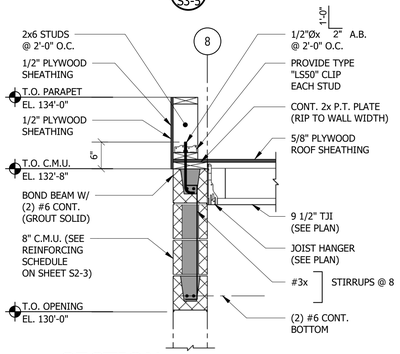
SECTION 8 S3-5 3/4" = 1'-0"



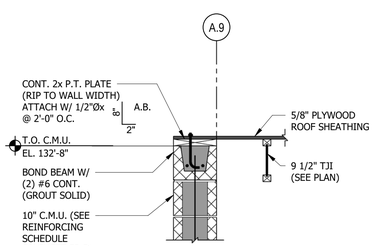
SECTION 9 S3-5 3/4" = 1'-0"



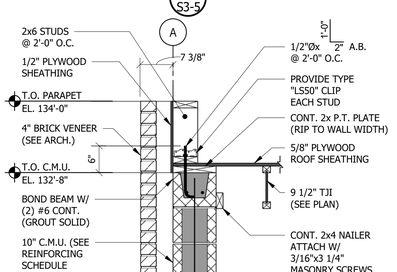
SECTION 10 S3-5 3/4" = 1'-0"



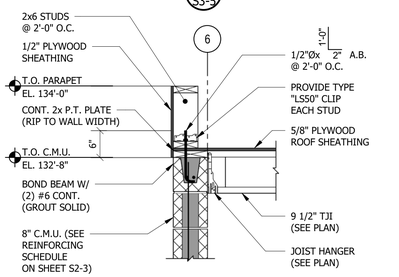
SECTION 11 S3-5 3/4" = 1'-0"



SECTION 12 S3-5 3/4" = 1'-0"



SECTION 13 S3-5 3/4" = 1'-0"



SECTION 14 S3-5 3/4" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

GRAND JUNCTION, COLORADO 81505

FRAMING SECTIONS

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 02/25/2021

PROJECT #: 20.104

SHEET #:

S3-5

Project Team:

Print Date: 2/24/2021 2:11:23 PM

MECHANICAL ELEMENTS / VALVING

- EXISTING EQUIPMENT OR PIPE TO BE REMOVED.
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- BALL VALVE
- SWING CHECK VALVE
- LIFT CHECK VALVE
- GATE VALVE, ANGLE
- GLOBE VALVE, ANGLE
- DIAPHRAGM VALVE
- BALANCING VALVE
- CBV — CIRCUIT SETTING BALANCING VALVE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- S — SOLENOID VALVE
- PRESSURE REDUCING VALVE (PRV)
- TPV — TEMPERATURE/PRESSURE RELIEF VALVE
- AIR VENT — HYDRAULIC SEPARATOR
- RELIEF/SAFETY VALVE
- GAS COCK
- AUTOMATIC FILL VALVE
- MV — MANUAL AIR VENT
- AV — AUTOMATIC AIR VENT (EXTEND DISCHARGE TO DRAIN)
- FLOW METER-VENTURI
- FLOW METER-ORIFICE
- DIRECTION OF FLOW
- R D — DIRECTION OF PITCH-RISE OR DROP
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- PIPE RISING UP
- PIPE DROPPING DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION - SCREWED OR FLANGED
- STEAM LEAK DETECTOR
- FSD — FIRE SMOKE DAMPER
- CO — CARBON MONOXIDE
- CD — CARBON DIOXIDE
- AIR SEPARATOR
- A — ANCHOR
- G — GUIDE
- EJ — EXPANSION JOINT
- FS — FLOW SWITCH
- TT — TEMPERATURE TRANSMITTER
- PT/PS — PRESSURE TRANSMITTER OR PRESSURE SWITCH
- TH — THERMOMETER
- GAUGE WITH GAUGE COCK & SYPHON (STEAM)
- AQUASTAT
- GAS PRESSURE REGULATOR
- FLOAT OPERATED CONTROL VALVE
- STEAM TRAP
- EXPANSION LOOP
- VB — VACUUM BREAKER
- T — THERMOSTAT
- S — DIGITAL SENSOR
- OR HPH — PUMP
- VX — HEAT EXCHANGER

HVAC & DUCTWORK SYMBOLS

- SECTION THROUGH RETURN DUCT
- SECTION THROUGH EXHAUST AIR DUCT
- SECTION THROUGH SUPPLY OR OUTSIDE AIR DUCT
- FSD — FIRE / SMOKE DAMPER
- SD — SMOKE DAMPER
- SUPPLY OR OUTSIDE AIR DUCT
- ACCESS DOOR (BOTTOM OR SIDE)
- ACOUSTICALLY LINED DUCT
- FD - SD - FSD — FIRE DAMPER, SMOKE DAMPER, FIRE/SMOKE DAMPER
- VD — MANUAL VOLUME DAMPER
- D — INCLINED DROP IN DIRECTION OF ARROW
- R — INCLINED RISE IN DIRECTION OF ARROW
- TRANSITION, RECTANGULAR TO ROUND
- FLEXIBLE DUCT
- IN-LINE FAN
- TRANSITION, RECTANGULAR
- SPIN-IN COLLAR INTO ADAPTER ON TOP OF DUCT
- CEILING SUPPLY AIR REGISTER/GRILLE
- SIDEWALL SUPPLY AIR REGISTER (SR)
- ELBOW TURNED DOWN
- ELBOW TURNED UP
- ELBOW, RADIUS TYPE
- ELBOW, SQUARE OR RECTANGULAR TYPE WITH AIRFOIL TURNING VANES
- CEILING RETURN AIR REGISTER (RR)
- SIDEWALL RETURN AIR REGISTER (RR)
- OPEN END DUCT
- FXC — FLEXIBLE CONNECTION

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.

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" AFF	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
A.F.C.	ABOVE FINISHED CEILING
A.F.G.	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
A.F.F.	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
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
GFCI / GFI	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRAINS PER POUND
H 2O	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

MECHANICAL SHEET LIST

Sheet Number	Sheet Name
M0-1	MECHANICAL COVER SHEET
M1-1	MECHANICAL - FLOOR PLAN
M1-2	MECHANICAL - CRAWL SPACE PLAN
M1-3	MECHANICAL - ROOF PLAN
M3-1	MECHANICAL - SCHEDULES
M3-2	MECHANICAL - DETAILS

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

MECHANICAL COVER SHEET

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

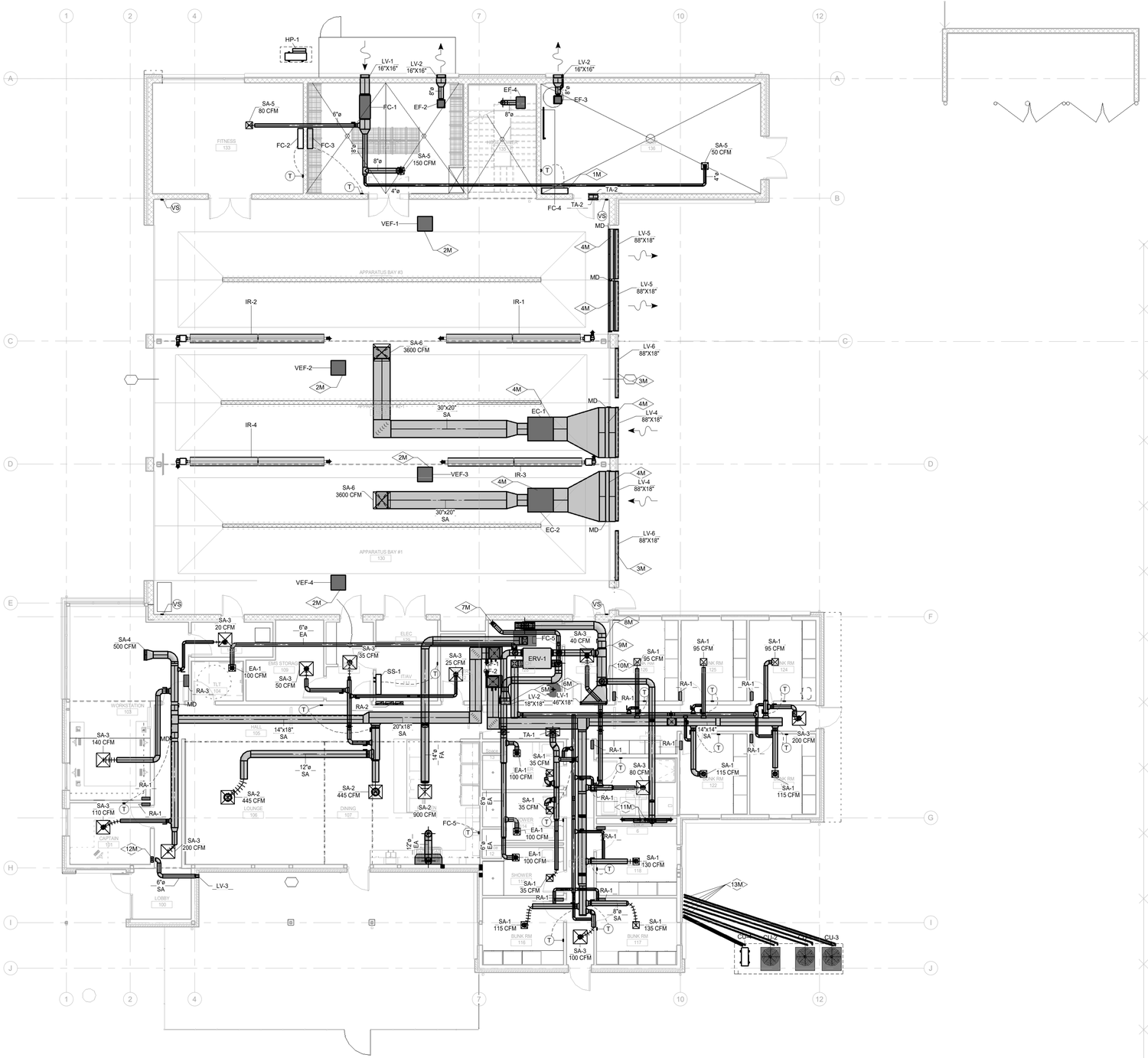
PROJECT #: 20-213

SHEET #:

M0-1

Project Team: BCE
Print Date: 2/25/2021 9:10:56 AM

M1-1 MECHANCIAL KEYNOTES	
Note Number	Note Text
1M	FAN COIL WALL UNIT TO BE MOUNTED ON WALL IN SHOP SPACE BELOW MEZZANINE
2M	VEHICLE EXHAUST VENTILATION UNITS (VEF-#) TO BE ACTIVATED BY SENSORS(VS) LOCATED AT THE OVERHEAD DOORS. SENSORS TO BE LOCATED AS CLOSE TO EXTERIOR WALL AS POSSIBLE. FIELD COORDINATE EXACT LOCATIONS.
3M	NO AIR FLOW THROUGH LOUVER. PROVIDE SHEETMETAL ON INSIDE OF LOUVER. IINSULATION TO BE PROVIDED BY GC.
4M	MOTORIZED DAMPER TO BE INTERLOCKED WITH OPERATION OF EVAPORATIVE COOLERS. DAMPERS TO BE IN THE OPEN POSITION WHEN EVAP IS RUNNING.
5M	EXHAUST LOUVER ON HIGH WALL TO EXTERIOR.
6M	OUTSIDE AIR INTAKE LOUVER ON HIGH WALL TO EXTERIOR.
7M	EXHAUST DUCT UP FROM EF-5 IN CRAWLSPACE TO ERV. PROVIDE WITH MOTORIZED BACKDRAFT DAMPER, INTERLOCKED WITH OPERATION OF EF-5
8M	PROVIDE MOTORIZED BACKDRAFT DAMPER ON OUTSIDE AIR SUPPLY TO FC-5. INTERLOCK OPERATION OF MOTORIZED BACKDRAFT DAMPER TO FC-5
9M	PROVIDE MOTORIZED BACKDRAFT DAMPER ON OUTSIDE AIR SUPPLY TO ERV. INTERLOCK OPERATION IF MOTORIZED BACKDRAFT DAMPER TO ERV
10M	PROVIDE MOTORIZED BACK DRAFT DAMPER ON OUTSIDE AIR SUPPLY TO LAUNDRY ROOM. INTERLOCK OPERATION OF DAMPER WITH OPERATION OF CLOTHE DRYERS.
11M	DRYER VENT UP TO ROOF. FIELD COORDINATE EXACT LOCATION OF PENETRATION. MAINTAIN CLEARANCES FROMALL MECHANICAL AIR INTAKES AS REQUIRED PER THE I.M.C.
12M	4"X10" FRESH AIR DUCT DROPS DOWN TO CRAWLSPACE BELOW. FIELD COORDINATE EXACT LOCATION OF DROP WITH STRUCTURE AND WALL ASSEMBLY.
13M	REFIGERENT LIQUID AND SUCTION LINES TO BE ROUTED THROGH SLEEVES UNDERGROUND FROM CONDENSING UNIT TO INSIDE CRAWLSPACE. ROUTE PER MANUFACTURES RECOMENDATIONS



NORTH

MECHANICAL - FLOOR PLAN

1/8" = 1'-0"

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Architecture
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Project Management

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970-242-1058 office

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

MECHANICAL - FLOOR PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2-25-2021

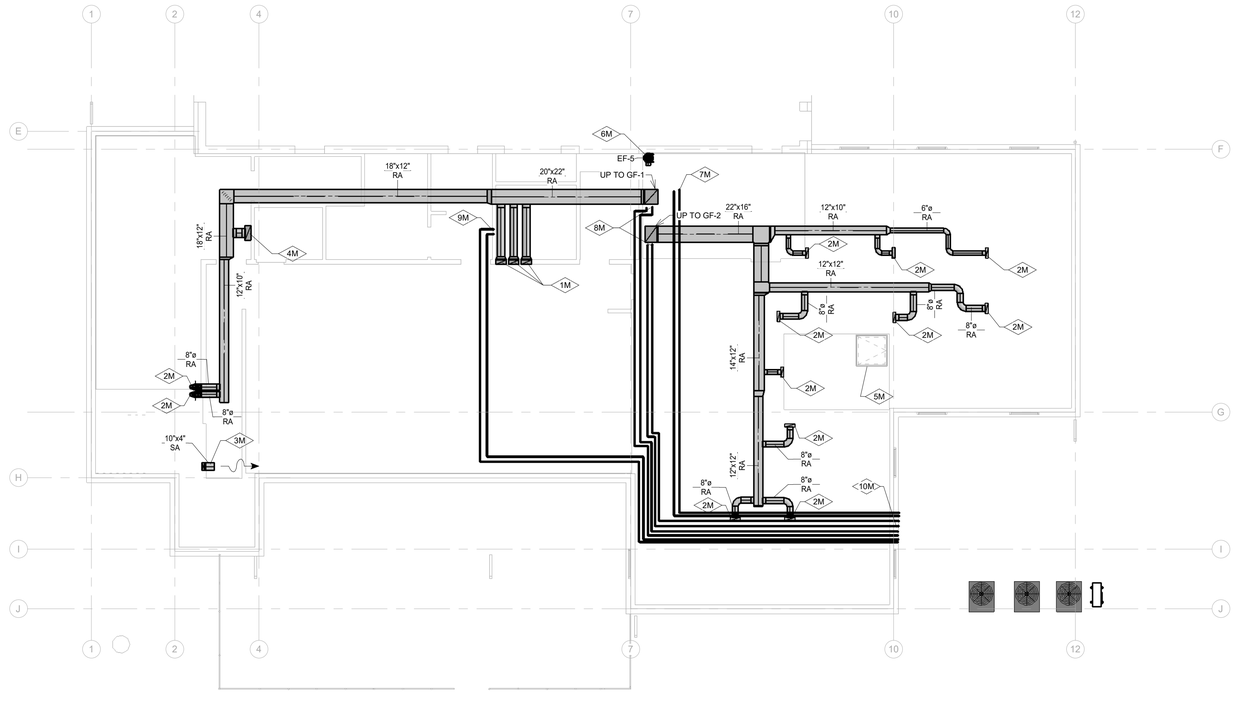
PROJECT #: 20-213

SHEET #:

M1-1

Project Team: BCE
Print Date: 2/25/2021 9:11:02 AM

M1-2 MECHANICAL KEYNOTES	
Note Number	Note Text
1M	14"X6" RETURN DUCT DOWN FROM RETURN GRILLE ON MAIN FLOOR. COORDINATE EXACT LOCATIONS OF DROPS WITH STRUCTRURE AND WALL ASSEMBLY. TYPICAL OF 3.
2M	14"X4" RETURN DUCT DOWN FROM FLOOR ABOVE.
3M	FRESH AIR SUPPLY TO CRAWLSPACE FROM ABOVE. SUPLLY DUCT TO BE OPEN ENDED IN CRAWL SPACE.
4M	8"X20" RETURN DUCT DOWN FROM FLOOR ABOVE
5M	CRAWLSPACE ACCESS HATCH FROM LAUNDRY ROOM ABOVE. FOR REFERENCE ONLY. SEE ARCHITECTURAL PLANS FOR MORE DETAILS
6M	EXHAUST FAN SUSPENDED FROM STRUCUTRE IN CRAWLSPACE FOR VENTILATION. DUCT UP AND TIE INTO ERV ABOVE.
7M	REFIGERENT LIQUID AND SUCTION PIPES UP FROM CRAWL SPACE TO SERVE FC-5
8M	REFIGERENT LIQUID AND SUCTION PIPES UP FROM CRAWL SPACE TO SERVE GF-1,GF-2
9M	REFIGERENT LIQUID AND SUCTION PIPES UP FROM CRAWL SPACE TO SERVE SS-1
10M	REFIGERENT LIQUID AND SUCTIONS LINE ROUTED THROUGH FOUNDATION WITH SLEVE.



2 MECHANICAL - CRAWL SPACE PLAN
1/8" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

MECHANICAL - CRAWL SPACE PLAN

FOR CONSTRUCTION

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DATE: 2-25-2021

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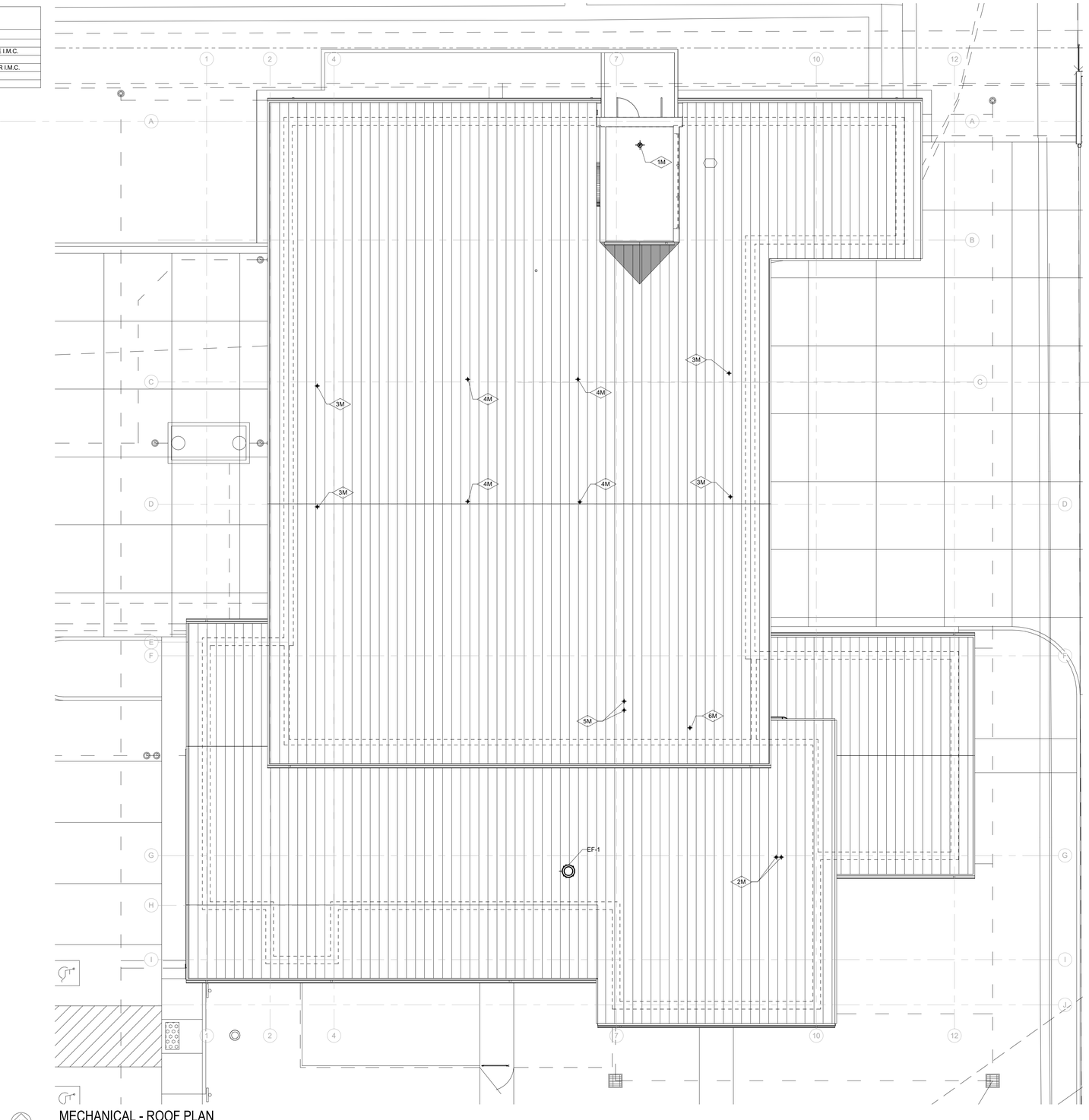
SHEET #:

M1-2

Project Team: BCE
Print Date: 2/25/2021 9:11:04 AM

M1-3 MECHANICAL KEYNOTES

Note Number	Note Text
1M	EXHAUST DUCT THROUGH ROOF.
2M	DRYER VENT THROUGH ROOF. MAINTAIN CLEARANCES FROM MECHANICAL AIR INTAKE AS REQUIRED BY THE I.M.C.
3M	COMBUSTION AIR FOR INFARED GAS HEATER
4M	GAS FLUE FROM INFARED GAS HEATERS. MAINTAIN 10' CLEARANCE FROM ALL MECHANCIAL AIR INTAKES PER I.M.C.
5M	CONCENTRIC GAS FLUE/COMBUSTION AIR THROUGH ROOF FROM GAS FURNACE
6M	CONCENTRIC GAS FLUE/COMBUSTION AIR VENT THROUGH ROOF FROM WATER HEATER



NORTH

MECHANICAL - ROOF PLAN

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

MECHANICAL - ROOF PLAN

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M1-3

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GRILLE-REGISTER-DIFFUSER SCHEDULE

TYPE MARK	SIZE	FINISH	MANUFACTURER	MODEL #	NOTES
EA-1	12"X12"	COLOR BY OWNER/ARCH	PRICE	500	NOTE-1
RA-1	PER PLANS	COLOR BY OWNER/ARCH	PRICE	LBP	NOTE-2
RA-2	PER PLANS	COLOR BY OWNER/ARCH	PRICE	500	NOTE-3
RA-3	PER PLANS	COLOR BY OWNER/ARCH	PRICE	LBPH	NOTE-2
SA-1	12"X12"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-4
SA-2	24"X24"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-4
SA-3		COLOR BY OWNER/ARCH	PRICE	SPD	
SA-4	18"X12"	COLOR BY OWNER/ARCH	PRICE	600	NOTE-5
SA-5	12"X12"	COLOR BY OWNER/ARCH	PRICE	SCD	NOTE-5
SA-6	30"X30"	COLOR BY OWNER/ARCH	PRICE	SPD	NOTE-5
TA-1	24"X12"	COLOR BY OWNER/ARCH	PRICE	500	NOTE-6
TA-2	8"X8"	COLOR BY OWNER/ARCH	PRICE	500	NOTE-7

NOTES:
1. CEILING MOUNTED EXHAUST GRILLE. COORDINATE MOUNTING WITH CEILING TYPES. FEILD COORDINATE EXACT LOCATION OF GRILLE IN SPACE. FINAL COLOR SELCTION BY OWNER/ARCHITECT
2. FLOOR MOUNTED RETURN GRILLE. COORDINATE MOUITING WITH FLOOR SPACES.
3. WALL MOUNTED RETURN GRILLE. COORDINATE MOUTING WITH WALL ASSEMBLY.
4. CEILING MOUNTED SUPPLY DIFFUSER. COORDINATE MOUNTING WITH CEILING TYPES. PROVIDE WITH MANUAL VOLUME DAMPER. FINAL COLOR BY OWNER/ARCHITECT.
5. DUCT MOUNTED SUPPLY GRILLE. PROVIDE WITH MANUAL VOLUME DAMPER.
6. WALL MOUNTED TRANSFER GRILLE. COORDINATE MOUNTING WITH WALL ASSEMBLY
7. CEILING MOUNTED TRANSFER GRILLE. PROVIDE WITH OPPOSED BLADE DAMPER.

ENERGY RECOVERY VENTILATOR SCHEDULE

TYPE MARK	SERVICE	LOCATION	SUPPLY FAN							EXHAUST FAN						ELECTRICAL		MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
			AIRFLOW (CFM)	E.S.P.	MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY	E.S.P. (IN. W.G.)	AIRFLOW (CFM)	MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
ERV-1	VENTALATION	MECHANICAL ROOM	938	.08	0.5	ECM	230	1	60 Hz	0.8	938	0.5	ECM	230 V	1	60 Hz	11 A	15 A	SOLER&PALUA	TRCE800-230	NOTE-1

NOTES:
1. PROVIDE WITH VIBRATION ISOLATION CEILING HANGERS, FLEXIBLE DUCT CONNECTIONS, ECM MOTOR SPEED CONTROLER, MERV 8 FILTERS, AND HINGED ACESS DOORS.

GAS FURNACE SCHEDULE

MARK	SERVICE	SUPPLY AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	SUPPLY E.S.P. (IN. W.G.)	NOM. COOLING CAPACITY (MBH)	HEATING			A.F.U.E. EFF.	SUPPLY FAN MOTOR POWER	ELECTRICAL					MANUFACTURER	MODEL #	NOTES
						GAS FLOW RATE (CFH)	INPUT (MBH)	OUTPUT (MBH)			VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
GF-1	KITCHEN,LIVING, DINING, OFFICES	1750	-	0.9	36	90.5	80	77	96	1	120 V	1	60 Hz	14 A	15 A	TRANE	4TXCD10DS3	NOTE-1
GF-2	BUNK ROOMS & ADJACENT	1150	-	0.9	22.5	67.9	60	58.2	96	3/4	120 V	1	60 Hz	8 A	15 A	TRANE	4PXCBU36BS3	NOTE-1
GF-14																		
GF-15																		
GF-16																		
GF-17																		
GF-18																		
GF-19																		
GF-21																		
GF-22																		

NOTES:
1. UPFLOW/DOWNFLOW GAS FURNACE. PROVIDE WITH VIBRATION ISOLATION, FLEXIBLE DUCT CONNECTIONS, EVAPORATOR DEFROST CONTROLS, CONCENTRIC VENT KIT, HIGH ALTITUDE KIT SIZED FOR LOCAL ELEVATION, DX COOLING COIL, THERMOSTATS, TOUCHSCREEN PROGRAMABLE CONTROLLER.

GAS FIRED INFARED HEATER SCHEDULE

MARK	SERVICE	LENGTH	HEATING		GAS PIPE CONNECTION SIZE	VENT OUTLET SIZE	AIR INLET SIZE	ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
			GAS FLOW RATE (CFH)	INPUT (MBH)	OUTPUT (MBH)				VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)	MOTOR HP			
IR-1	APPARATUS BAY	20' - 0"	67.9	60	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1
IR-2	APPARATUS BAY	20' - 0"	67.9	60	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1
IR-3	APPARATUS BAY	20' - 0"	67.9	60	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1
IR-4	APPARATUS BAY	20' - 0"	67.9	60	49	1/2	4"	4"	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	NOTE-1

NOTES:
1. PROVIDE WITH THERMOSTAT, HEAT SHIELD, COMBUSTION AIR AND GAS FLUES ROUTED TO ROOF, AND CEILING HANGERS AND SISMEC SUPPORTS AS REQUIRED BY I.B.C.

FAN COIL SCHEDULE

TYPE MARK	SERVICE	SUPPLY AIRFLOW (CFM)	SUPPLY E.S.P. (IN. W.G.)	NOM. COOLING (BTU/H)	NOM. HEATING	FILTERS	SUPPLY FAN MOTOR POWER	ELECTRICAL					UNIT WEIGHT	MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
								VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)				
FC-1	OUTSIDE AIR	650	-	-	5 KW	2" MERV 8	1/6	208 V	3	60 Hz	14.90 A	20 A	118.00 lb	MARKEL	F3G7205	NOTE-1
FC-2	FITNESS	413	-	12000	13500 BTU/H	-	-	230 V	2	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFYP012HM142A	NOTE-2
FC-3	BUNKER GEAR	413	-	15000	17000 BTU/H	-	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFYP015HM142A	NOTE-2
FC-4	SHOP	413	-	15000	17000 BTU/H	-	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFYP015HM142A	NOTE-2
FC-5	KITCHEN MAKE-UP-AIR	900	.5	35000	-	2" MERV 8	1	208 V	1	60 Hz	9.66 A	15 A	230.90 lb	TRANE	BCVD036B1	NOTE-3

NOTES:
1. PROVIDE WITH SINGLE STAGE THERMOSTAT, ACCESS PANELS ON BOTH SIDES OF UNIT, HANGER KIT WITH VIBRATION ISOLATION, FLEXIBLE DUCT CONNECTIONS.
2. WALL MOUNTED UNIT, PROVIDE WITH REMOTE THERMOSTAT, CONDENSATE PUMP, VARIABLE SPEED FAN, REMOVEABLE INTAKE GRILLE FILTER.
3. FLOOR MOUNTED UNIT, PROVIDE WITH ECM MOTOR, DRAINPAN, REMOTE THREMOSTAT, FLEXIBLE DUCT CONNECTIONS, REFRIGERENT PIPING ROUTED PER MANUFACTURES SPECIFICATIONS.

EXHAUST FAN SCHEDULE

TYPE MARK	SERVICE	LOCATION	AIRFLOW (CFM)	EXHAUST FAN MOTOR POWER	EXHAUST FAN SPEED (RPM)	MOTOR		ELECTRICAL FREQUENCY	MANUFACTURER	MODEL #	NOTES
						VOLTS	PHASE				
EF-1	KITCHEN HOOD	ROOF	900	1/3 HP	1750	115 V	1	60 Hz	S&P USA	STXDE10	NOTE-1
EF-2	BUNKER GEAR	CEILING	195	1/6 HP	740	115 V	1	60 Hz	S&P USA	FF200S	NOTE-2
EF-3	SHOP	CEILING	300	1/5 HP	648	115 V	1	60 Hz	S&P USA	FF400S	NOTE-2
EF-4	STAIR TOWER	CEILING	500	2/3 HP	955	115 V	1	60 Hz	S&P USA	FF1500S	NOTE-2
EF-5	CRAWL SPACE	INLINE	90	75 W	-	115 V	1	60 Hz	FANTECH	FG 4XL	NOTE-3
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	-	3/4 HP		120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	NOTE-4

NOTES:
1. ROOF MOUNTED FAN FOR KITCHEN HOOD. PROVIDE WITH ROOF CURB, SPEED CONTROL, BIRD SCREEN, MOTORIZED BACKDRAFT DAMPER
2. PROVIDE WITH SPEED CONTROL, VIBRATION ISOLATION, CEILING GRILLE, BACKDRAFT DAMPER, 1/2" ACOUSTIC INSULATION
3. INLINE FAN, PROVIDE WITH SPEED CONTOLLER, THERMNAL OVERLOAD PROTECTION, MOUNTING BRACKET, ROUND DUCT CONNECTIONS.
4. PROVIDE WITH CEILING SUSPENSION, SEISMIC BRACING. VEHICLE EXHAUST VENTILATORS TO BE ACTIVATED BY SENSORS MOUNTED AT BAY DOORS.

SPLIT SYSTEM EQUIPMENT SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (BTU/HR)	NOM. HEATING CAPACITY (BTU/HR)	SUPPLY AIRFLOW (CFM)	EER EFF.	REFRIGERANT PIPING		ELECTRICAL				MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
						LIQUID	VAPOR	VOLTS	PHASE	FREQUENCY	MCA (A)			
CU-4	IT ROOM	12000	-	-	12	1/4"	1/2"	208 V	1	60 Hz	11 A	MITSUBISHI ELECTRIC	PUY-A12NKA7	NOTE-1
SS-1	IT ROOM	12000	-	425	-	1/4"	1/2"	208 V	1	60 Hz	1 A	MITSUBISHI ELECTRIC	PKA-A12HA77	NOTE-2

NOTES:
1. LOW AMBIENT COOLING, VARIABLE SPEED INVERTER, ROUTE REFRIGERENT PER MANUFACTURERS INSTRUCTIONS.
2. WALL MOUNTED UNIT, PROVIDE WITH REMOTE THERMOSTAT, CONDENSATE PUMP, VARIABLE SPEED FAN, REMOVEABLE INTAKE GRILLE FILTER.

HEAT PUMP CONDENSING UNIT SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (TONS)	NOM. HEATING CAPACITY	REFRIG. PIPING SIZE LIQUID	REFRIG. PIPING SIZE VAPOR	ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
						VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
HP-1	FC-2,3,4	3 TONS	42 MBH	3/8"	5/8"	230 V	1	60 Hz	29 A	44 A	TRANE/MITSUBISHI ELECTRIC	TUMYP0361AK42	NOTE-1

NOTES:
1. LOW AMBIENT COOLING, VARIABLE SPEED INVERTER, ROUTE REFRIGERENT PER MANUFACTURERS INSTRUCTIONS. PROVIDE WITH 18" STAND, HEATED PAD,

AIR COOLED CONDENSING UNIT

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (TONS)	REFRIGERANT PIPING		ELECTRICAL					MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
			LIQUID	VAPOR	VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)			
CU-1	GF-1	4 TONS	3/8"	7/8"	230 V	1	60 Hz	28 A	45 A	TRANE	4TTR7048B	NOTE-1
CU-2	GF-2	3 TONS	3/8"	3/4"	230 V	1	60 Hz	24 A	35 A	TRANE	4TTR7036A	NOTE-1
CU-3	FC-5	3 TONS	3/8"	3/4"	230 V	1	60 Hz	24 A	35 A	TRANE	4TTR7036A	NOTE-2

NOTES:
1. PROVIDE WITH DEFROST CONTROLS AND SEQUENCES, HOUSEKEEPING PAD, LOW AMBIANT COOLING, REFRIGERENT PIPE TO BE ROUTED PER MANUFACTURES INSTRUCTION. TIE IN CONTROLS TO RESPECTIVE GAS FURNACE.
2. PROVIDE WITH DEFROST CONTROLS AND SEQUENCES, HOUSEKEEPING PAD, LOW AMBIANT COOLING, REFRIGERENT PIPE TO BE ROUTED PER MANUFACTURES INSTRUCTION.

EVAPORATIVE COOLER SCHEDULE

MARK	SUPPLY AIRFLOW (CFM)	SUPPLY E.S.P.	ELECTRICAL			MOTOR HP	MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
			VOLTS	PHASE	FREQUENCY				
EC-1	3600	.4	120 V	1	60 Hz	1	PHOENIX	PH6802C	NOTE-1
EC-2	3600	.4	120 V	1	60 Hz	1	PHOENIX	PH6802C	NOTE-1

NOTES:
1. PROVIDE THERMOSTAT, VIBRATION ISOLATION HANGERS, SEISMIC BRACING, FLEXIBLE DUCT CONNECTION, INTERLOCK TO MOTORIZED DAMPERS ON INTAKE AND EXHASUT LOUVERS.

LOUVER SCHEDULES

TYPE MARK	SERVICE	DIMENSIONS	FINISH	MANUFACTURER	MODEL #	NOTES
LV-1	INTAKE	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-1
LV-2	EXHAUST	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-2
LV-3	INTAKE	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-1
LV-4	INTAKE	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-1
LV-5	EXHAUST	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-2
LV-6	BLOCKED/NO AIR FLOW	SEE PLANS	BY OWNER/ARCHITECT	RUSKIN	ELF6375DX	NOTE-3

NOTES:
1. PROVIDE WITH WALL FRAME COORDINATED WITH WALL ASSEMBLIES, MOTORIZED DAMPER, BIRD SCREEN, FINAL COLOR SELECTION BY OWNER/ARCHITECT.
2. PROVIDE WITH WALL FRAME COORDINATED WITH WALL ASSEMBLIES, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, FINAL COLOR SELECTION BY OWNER/ARCHITECT.
3. LOUVER PROVIDED AS DECORATIVE FIXTURE. PROVIDE WITH SHEET METAL COVER ON INSIDE, INSULATION BY GC.

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580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

MECHANICAL - SCHEDULES

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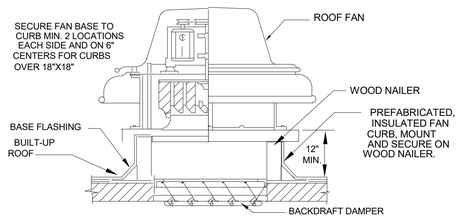
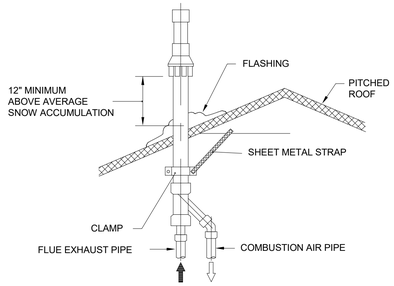


ROOF FAN MOUNTING DETAIL

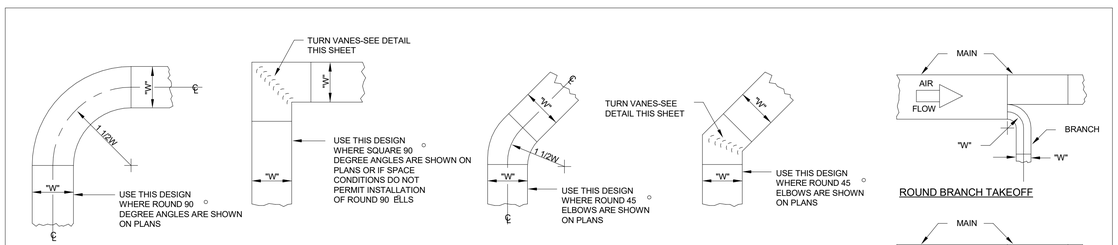
NOT TO SCALE



CONCENTRIC SLOPED ROOF TERMINATION INSTALLATION DETAIL

(TYPICAL FOR HIGH EFFICIENCY GAS FURNACES)

N.T.S.

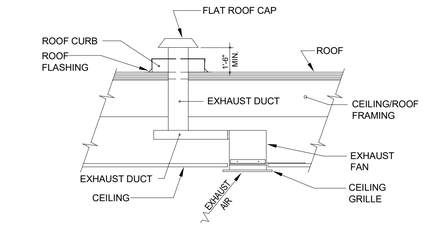


DETAILS OF THE LOW VELOCITY DUCT LAYOUT

NO SCALE

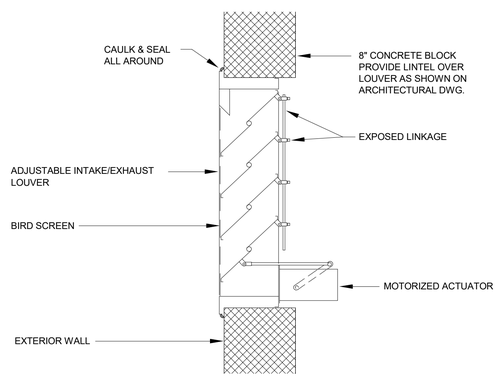
INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.



CEILING EXHAUST FAN DETAIL

NOT TO SCALE



MOTORIZED LOUVER DETAIL

NOT TO SCALE

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MECHANICAL - DETAILS

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PROJECT #: 20-213

SHEET #:

M3-2

Project Team: BCE
Print Date: 2/25/2021 9:11:07 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

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" FINISHED FLOOR TO CENTER OF DEVICE	MOUNTING HEIGHT ABOVE.
A	AMPS
A.D.	ACCESS DOOR
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
A.F.C.	ABOVE FINISHED CEILING
A.F.G.	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
A.F.F.	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
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
(A)	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
GFCI / GFI	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRAINS PER POUND
H 2O	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

PLUMBING SHEET LIST

Sheet Number	Sheet Name
P0-1	PLUMBING COVER SHEET
P1-1	PLUMBING - FLOOR PLAN
P1-2	PLUMBING - ENLARGED FLOOR PLAN
P3-1	PLUMBING SCHEDULES
P3-2	PLUMBING DETAILS

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

PLUMBING COVER SHEET

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

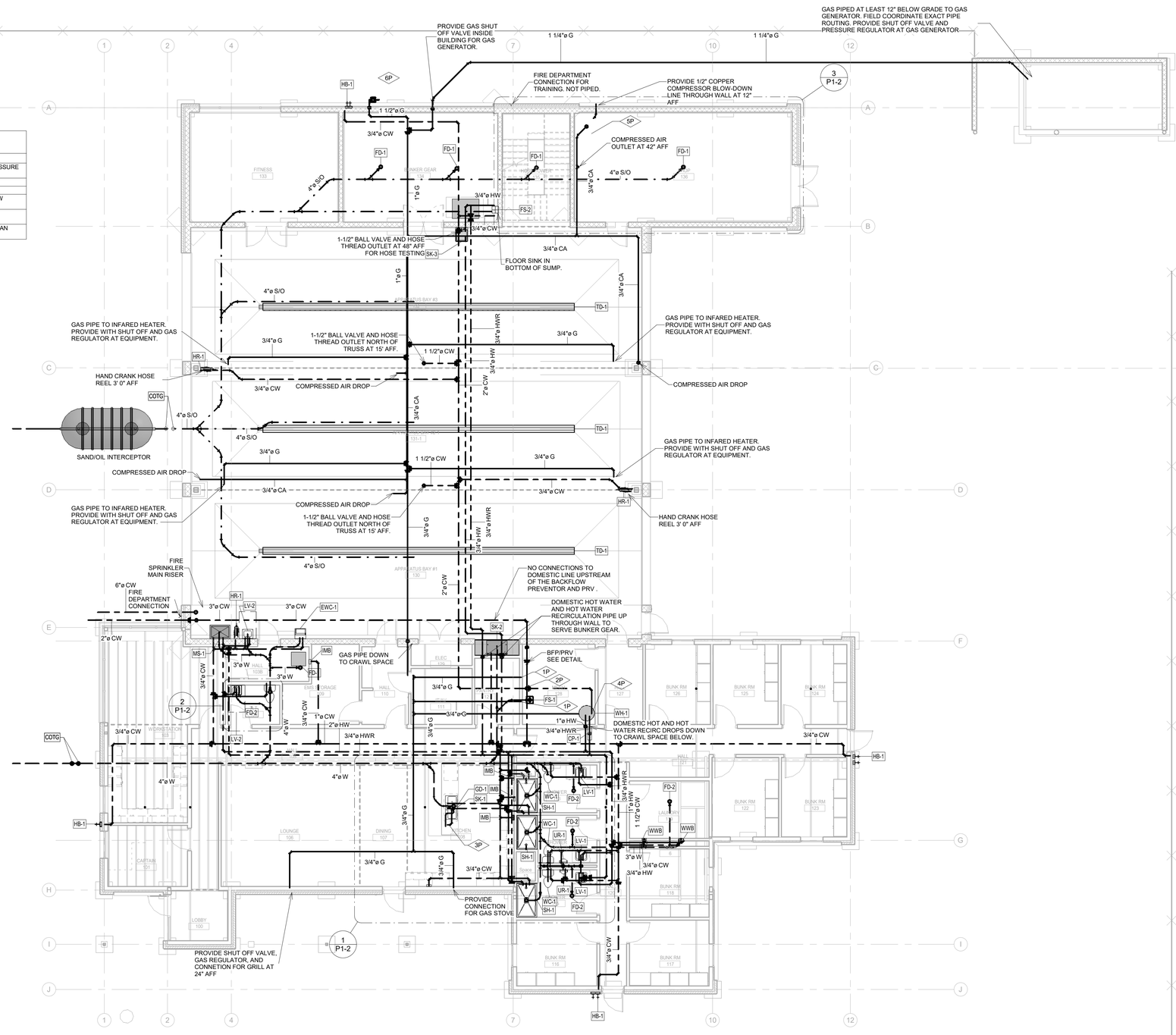
PROJECT #: 20-213

SHEET #:

P0-1

P1-1 PLUMBING KEYNOTES

Note Number	Note Text
1P	GAS PIPE UP FROM CRAWL SPACE TO GAS FURNACE. PROVIDE WITH SHUT OFF VALVE AND MEDIUM TO LOW PRESSURE REGULATOR
2P	DOMESTIC COLD WATER PIPE UP THROUGH MECHANICAL ROOM TO SERVE VEHICLE BAYS
3P	DOMESITC HOT WATER AND SANITARY WASTE PIPES TO SERVE DISHWASHER
4P	GAS PIPE UP FROM CRAWL SPACE TO GAS WATER HEATER. PROVIDE WITH SHUT OFF VALVE AND MEDIUM TO LOW PRESSURE REGULATOR
5P	PROVIDE WITH QUINCY MODEL QP-5 80 GALLON/5HP AIR COMPRESSOR. COORDINATE POWER WITH ELECTRICAL CONTRACTOR. 230V/3PH MOTOR.
6P	GAS METER LOCATION. GAS METER SIZED FOR MEDIUM PRESSURE. APROXIMATE LONGEST LENGTH IS 165' WITH AN ESTIMATED TOTAL CONNECTED LOAD OF 3248 CFH. FIELD COORDINATE EXACT LOCATION OF METER.



NORTH

PLUMBING - FLOOR PLAN

1/8" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

5

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

PLUMBING - FLOOR PLAN

FOR CONSTRUCTION

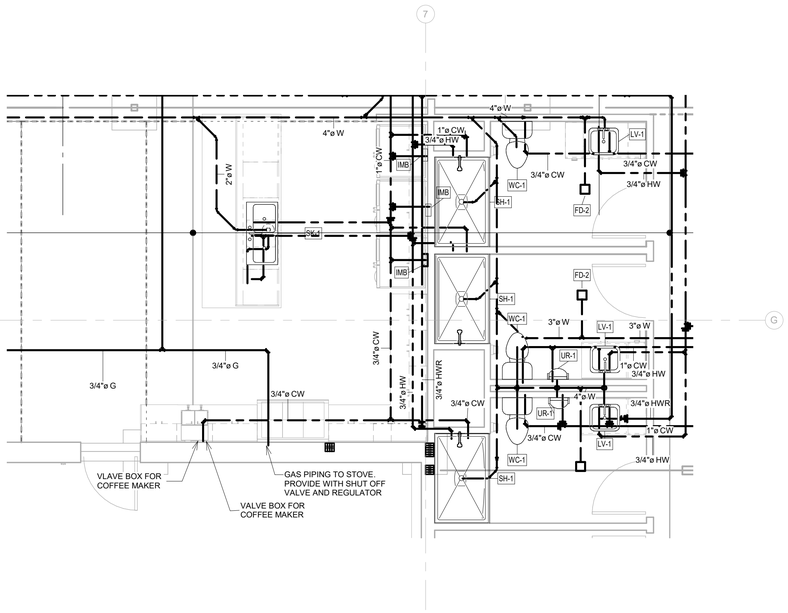
REV.	DESC.	DATE:

DATE: 2-25-2021

PROJECT #: 20-213

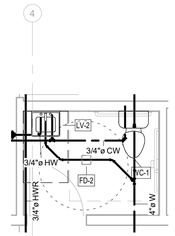
SHEET #:

P1-1



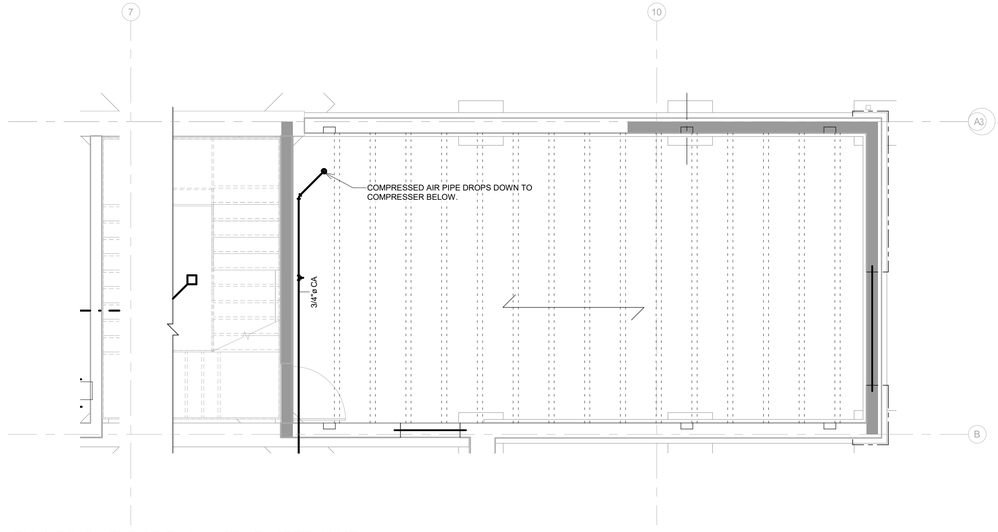
1 P1-2 PLUMBING - ENLARGED KITCHEN FLOOR PLAN

1/4" = 1'-0"



2 P1-2 PLUMBING - ENLARGED RESTROOM FLOOR PLAN

1/4" = 1'-0"



3 P1-2 PLUMBING - FLOOR PLAN - STAIR/MEZZANINE

1/4" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

PLUMBING - ENLARGED FLOOR PLAN

FOR CONSTRUCTION

REV. DESC. DATE:

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P1-2

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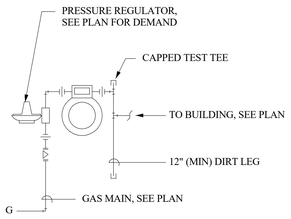
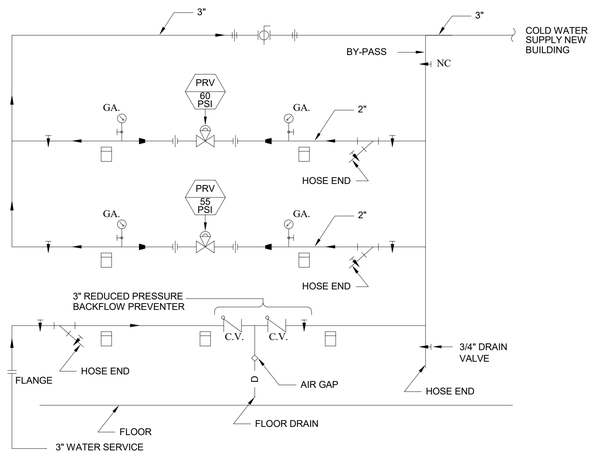
NOTE:
GAS METER & REGULATOR SHALL BE BY THE LOCAL GAS COMPANY.



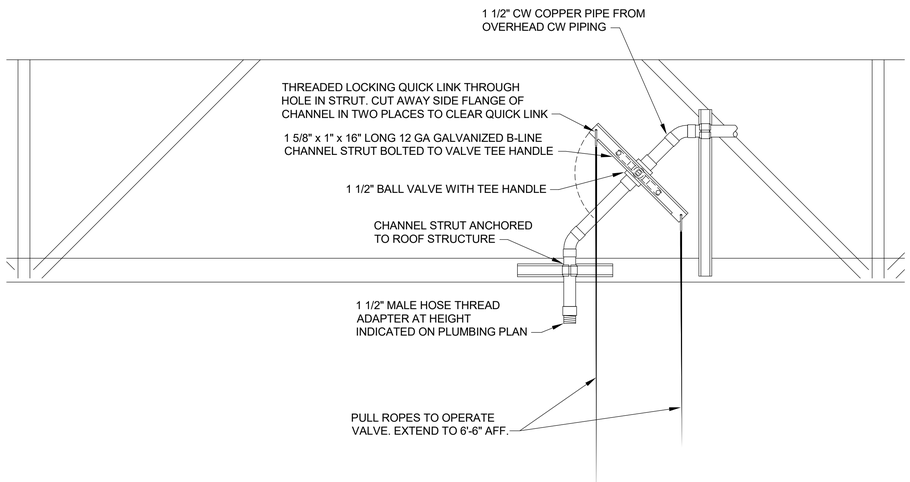
GAS METER DETAIL

NOT TO SCALE



DOMESTIC WATER PRESSURE REDUCING STATION DETAIL

NOT TO SCALE



TRUCK FILL WATER VALVE DETAIL

SCALE: 1" = 1'-0"

PLUMBING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	TRIM	PIPE CONNECTIONS S/W	VENT	CW	HW	OPTIONS/ ACCESSORIES
EWC-1	ELECTRIC WATER COOLER W/ BOTTLE FILLER	ELKAY	EMABF8WSSK	STAINLESS STEEL	1 1/4"		1/2"	-	PROVIDE WITH HANDS-FREE BOTTLE FILLER, GREEN TICKER, LAMINAR FLOW, WALL MOUNTED ANTIMICROBIAL DRAIN, COOLER, AND MECHANICAL FRONT AND SIDE PUSHBARS
FD-1	FLOOR DRAIN	ZURN	Z415B	NICKEL BRONZE GRID	3"	2"	-	-	
FD-2	FLOOR DRAIN	ZURN	Z415S	NICKEL BRONZE GRID	3"	2"	-	-	
FS-1	FLOOR SINK	ZURN	Z1900	CAST IRON BODY	3"	2"	-	-	PROVIDE WITH 1/2 GRATE OPENING.
FS-2	FLOOR SINK	ZURN	Z1900	CAST IRON BODY	3"	2"	-	-	PROVIDE WITH FULL GRATE, QUAD CLOSE MECHANCIAL TRAP SEAL, NO P-TRAP.
GD-1	GARBAGE DISPOSAL	INSINKERATOR	PRO 880LT	-	1 1/2"	-	-	-	7/8 HP MOTOR, 120V/1PH/60HZ, PROVIDE WITH SOUND SEAL, MULTIGRIND, AND AUTO-REVERSE GRIND SYSTEM
HB-1	EXTERIOR HOSE BIB	WOODFORD	B67	-	-	-	3/4"	-	PROVIDE WITH LOCKING COVER, AND FREEZEPROOF ASSEMBLY
HR-1	DOMESTIC WATER HOSE REEL	COXREELS	SLP-5100				3/4"		
IMB		OATEY	ICE MAKER BOX		-	-	3/4"	-	
LV-1	UNDERMOUNT BATHROOM SINK	AMERICAN STANDARD	0614.000	PROVIDE WITH AMERICAN STANDARD FAUCET #2064.131	1 1/2"	1 1/2"	3/4"	3/4"	SINK TO BE WHITE VITREOUS CHINA, VERIFY COLOR WITH ARCHITECT/OWNER
LV-2	WALL MOUNT BATHROOM SINK	AMERICAN STANDARD	0955.001EC	PROVIDE WITH SLOAN FAUCET #EAF-250-BAT-0.5GPM-AER-IR-IQFCT	1 1/2"	1 1/2"	3/4"	3/4"	
MS-1	MOP SINK	FLORESTONE	MSR-3624	PROVIDE WITH ZURN FAUCET #Z842M1-XL WITH WALL BRACING	3"	2"	3/4"	3/4"	PROVIDE WITH STAINLESS STEEL GRID DRAIN
SH-1	SHOWER ENCLSURE	EVERYDAY SHOWERS	1603SGM	PROVIDE WITH DELTA SHOWER FIXTURE #T13220H20	3"	1 1/2"	3/4"	3/4"	PROVIDE WITH MOLDED TOILETRY SHELVES, SLIP RESISTANT TEXTURED BOTTOM, CENTER DRAIN, PROFLO SHOWER DRAIN PF101PNC,AND DELTA R10000UNWS MIXING VALVE,
SK-1	TWO BASIN KITCHEN SINK	INTEGRA DRAIN	UND-1842-1	PROVIDE WITH DELTA FAUCET #9113-DST	1 1/2"	1 1/2"	3/4"	3/4"	STAINLESS STEEL SINK WITH DELTA SOAP DISPENSER, # RP100736, GARBAGE DISPOSAL
SK-2	SCULLERY SINK	ELKAY	WNSF8130LR	PROVIDE WITH T&S FAUCET #B-2187	1 1/2"	1 1/2"	3/4"	3/4"	PROVIDE WITH PROFLOE PF250 BASKET STRAINER, P-TRAP,
SK-3	UTILITY SINK	ELKAY	14-1C16X20-0X	PROVIDE WITH T&S FAUCET #B-1147-04-CR	1 1/2"	1 1/2"	3/4"	3/4"	PROVIDE WITH PROFLOE PF250 BASKET STRAINER, P-TRAP,
TD-1	TRAFIC RATED TRENCH DRAIN	ZURN	ZZ886DGE	DUCTILE IRON SLOTED GRATE-TRAFIC RATED	4"	2"	-	-	PROVDE WITH 4" HUB THROAT CONNECTION, HEAVY DUTY FRAME, CLOSET END CAPS, ESTIMATED LENGTH IS 48'6" CONTRACTOR TO VERIFY PRIOR TO ORDERING
UR-1	WALL MOUNT URINAL	AMERICAN STANDARD	6590.001	PROVIDE WITH SLOAN #186.05 DFB FLUSH VALVE,	2"	1 1/2"	1 1/4"	-	PROVIDE WITH WALL MOUNT KIT
WC-1	ADA RIGHT HEIGHT TANK TYPE TOILET	AMERICAN STANDARD	3395A.001		3"	2"	3/4"	-	1.28 GPF SYSTEM, WATER HAMMER ARRESTOR, WATERSENSE RATED
WWB	WASHER WALL BOX	OATEY	WASHER WALL BOX		1 1 /2"	1 1/2"	3/4"	3/4"	

CIRCULATION PUMP SCHEDULE

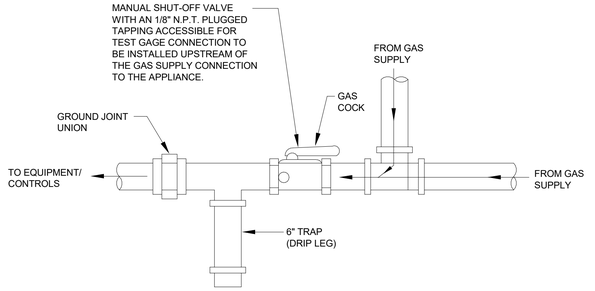
Type Mark	SERVICE	LOCATION	FLUID FLOW RATE	HEAD PRESSURE	MOTOR POWER	RPM	VOLTS	PHASE	FREQUENCY	FLA (A)	MANUFACTURER	MODEL #	NOTES
CP-1	WH-1	MECHANCIAL ROOM	11.5	9.5	1/40 HP	3250	120 V	1	60 Hz	1	TACO	006	NOTE-1

NOTES:
1. PROVIDE WITH DIRECT DRIVE MOTOR, TIMER, INTEGRAL FLOW CHECK, POWER DISCONNECT. PUMP TO BE RATED FOR DOMESTIC USE.

GAS FIRED TANK WATER HEATER SCHEDULE

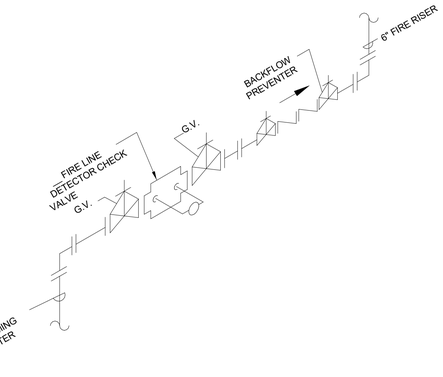
TYPE MARK	TANK SIZE	RECOVERY 90 DEG. F RISE	BTU/HR	GAS PIPE CONNECTION SIZE	DOMESTIC CW PIPE CONNECTION SIZE	MANUFACTURER	MODEL #	OPTIONS/ ACCESSORIES
WH-1	100	196	150000	3/4"	1 1/2"	BRADFORD WHITE	EF-100T-150E-EN	NOTE-1

NOTES:
1. PROVIDE WITH ASME RELIEF VALVE, EXPANSION TANK, HIGH ALTITUDE KIT SIZED PER ELEVATION, CONCENTRIC VENT TERMINATION KIT, THERMOSTAT, AND CONTROLS FOR RECIRCULATION PUMP.



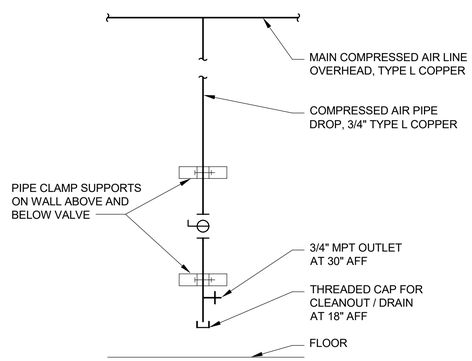
GAS CONNECTION TO EQUIPMENT DETAIL

NOT TO SCALE



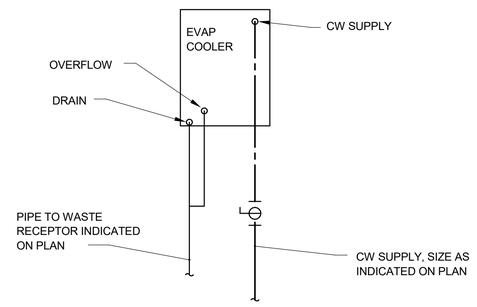
FIRE WATER INCOMING SERVICE RISER

NOT TO SCALE



COMPRESSED AIR DROP DETAIL

NO SCALE



EVAPORATIVE COOLER PIPING SCHEMATIC

NO SCALE

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

PLUMBING SCHEDULES

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2-25-2021
PROJECT #: 20-213
SHEET #: P3-1

Project Team: BCE
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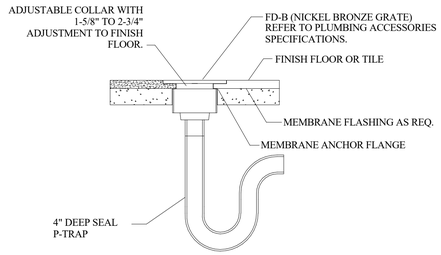
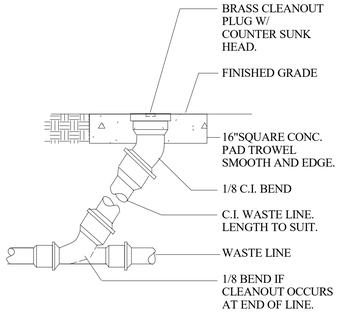


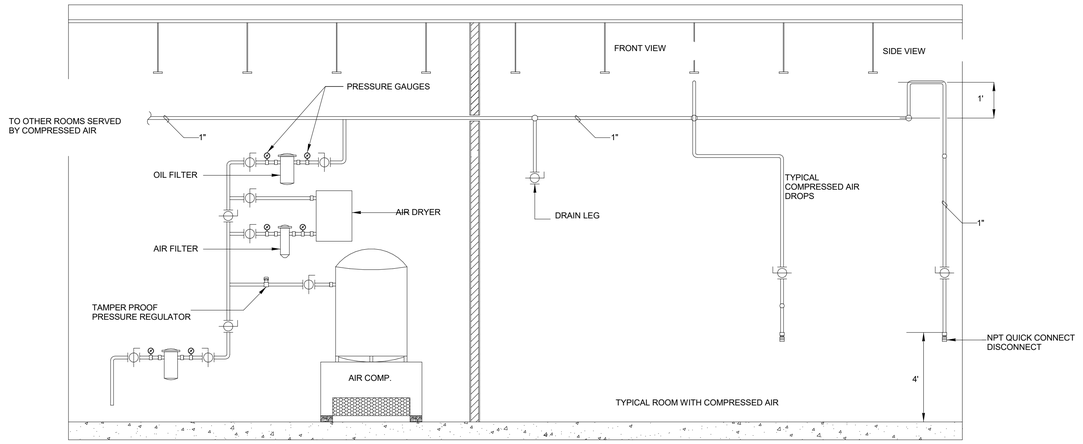
MECHANICAL AREA FLOOR DRAIN

NOT TO SCALE



CLEANOUT TO GRADE

NOT TO SCALE



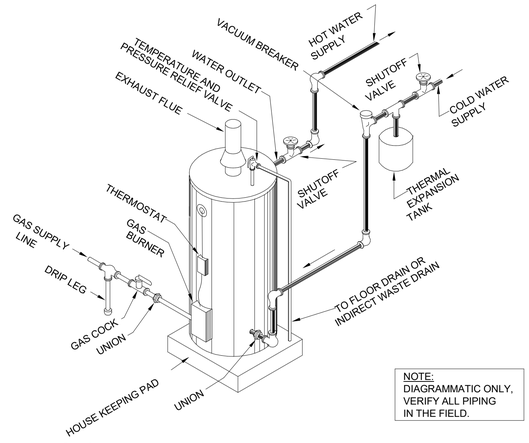
TYPICAL AIR COMPRESSOR SET UP DETAIL
N.T.S.

GENERAL NOTES:

-REQUIRED MAINTENANCE OF FILTERS WHEN PRESSURE DROP ACROSS FILTER IS 10PSI OR GREATER.

-INSTALL COMPRESSED AIR LINES AT A SLOPE OF 1/8" PER FOOT.

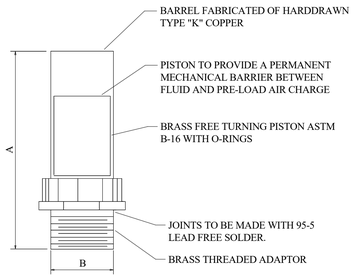
-INSTALL DRAIN LEGS APPROXIMATELY EVERY 60'.



NOTE:
DIAGRAMMATIC ONLY, VERIFY ALL PIPING IN THE FIELD.

GAS FIRED WATER HEATER DETAIL

NOT TO SCALE

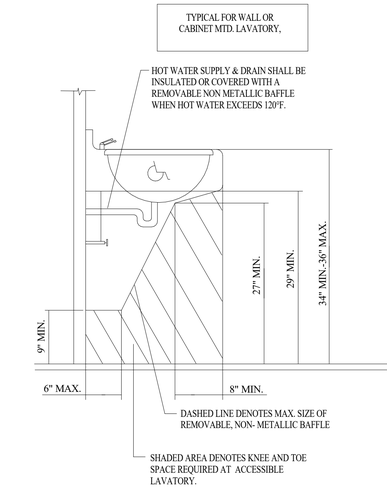


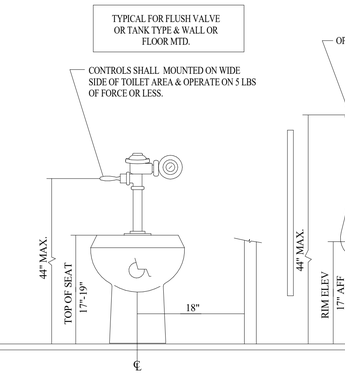
PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

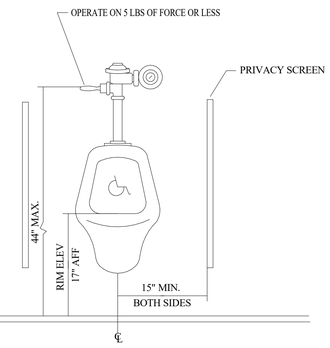
NOTE: SEE WATER RISER DIAGRAMS FOR LOCATIONS OF SHOCK ABSORBERS.

WATER SHOCK ARRESTOR DETAIL

NOT TO SCALE



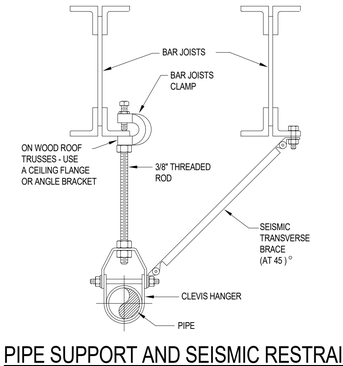




ACCESSIBLE PLUMBING FIXTURE INSTALLATION

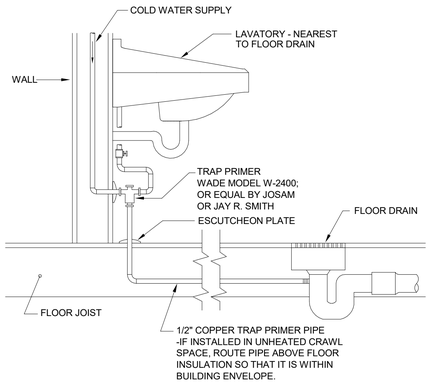
NOT TO SCALE

NOTE:
PROVIDE SEISMIC RESTRAINTS FOR PIPING AS FOLLOWS:
- 1" & 1-1/2" PIPES: 20 FT. ON CENTER
- 2" & 2-1/2" PIPES: 30 FT. ON CENTER
- 3" , 4" & 6" PIPES: 40 FT. ON CENTER



PIPE SUPPORT AND SEISMIC RESTRAINT DETAIL - HORIZONTAL PIPING

NOT TO SCALE



FLOOR DRAIN TRAP PRIMER DETAIL

NOT TO SCALE

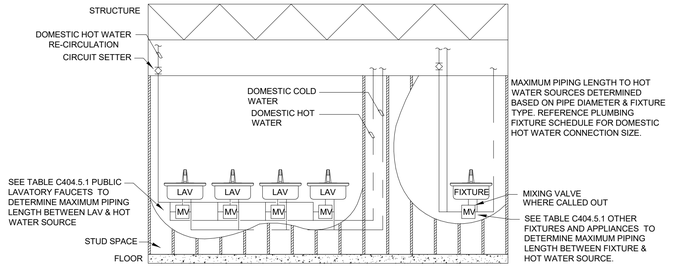


TABLE C404.5.1 PIPING VOLUME AND MAXIMUM PIPING LENGTHS

NOMINAL PIPE SIZE (INCHES)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAXIMUM PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4	0.33 = .0026 GAL	64 FT.	50 FT.
5/16	0.5 = .0039 GAL	64 FT.	50 FT.
3/8	0.75 = .0059 GAL	64 FT.	50 FT.
1/2	1.5 = .0117 GAL	64 FT.	43 FT.
5/8	2 = .0156 GAL	43 FT.	32 FT.
3/4	3 = .0234 GAL	0.0 FT.	21 FT.
7/8	4 = .0312 GAL	0.0 FT.	16 FT.
1	5 = .0391 GAL	0.0 FT.	13 FT.
1 1/4	8 = .0625 GAL	0.0 FT.	8 FT.
1 1/2	11 = .0859 GAL	0.0 FT.	6 FT.
2 OR GREATER	18 = .1406 GAL	0.0 FT.	4 FT.

1. FOR 1/ INCH = 25.4 MM, 1 FOOT = 304.8 MM, 1 LIQUID OUNCE = 0.0301, 1 GALLON = 128 OUNCES.
2. FOR ALL PUBLIC LAVATORYS CONTRACTOR TO INSTALL HOT WATER SOURCE WITHIN MAXIMUM PIPING LENGTH. ANY OTHER TYPE FIXTURE OR APPLIANCE SHALL HAVE HOT WATER SOURCE WITHING ALTERNATIVE MAXIMUM PIPING LENGHT, SEE TABLE ABOVE.

PLUMBING FIXTURE DOMESTIC HOT WATER RE-CIRCULATION DETAIL

NOT TO SCALE

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

PLUMBING DETAILS

FOR CONSTRUCTION

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SHEET #:

P3-2

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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
S P	SMOKE DETECTOR - PHOTOELECTRIC
S CO P	SMOKE DETECTOR - PHOTOELECTRIC W/INTERNAL CARBON MONOXIDE
135F	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
CX	COAX JACK
TN	TELEPHONE - DATA

SECURITY SYSTEM LEGEND

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

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
$OS	AUTO ON / AUTO OFF LIGHT SWITCH
$MO	DUAL TECHINOLOGY MOTION / OCCUPANCY SENSOR LIGHT SWITCH
$DMA	MANUAL ON / AUTO OFF DIMMING LIGHT SWITCH
$K	KEY OPERATED LIGHT SWITCH
$T	MANUAL ON - TIMED OFF LIGHT SWITCH
OS OS	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
M M	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY 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

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

	CEILING JUNCTION BOX - SURFACE/FLUSH
J	WALL JUNCTION BOX - SURFACE/FLUSH
	DUPLEX RECEPTACLE
	FLOOR MOUNTED RECEPTACLE
	SPLIT WIRED DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	FOURPLEX RECEPTACLE
	FLOOR MOUNTED FOURPLEX RECEPTACLE
	APPLIANCE RECEPTACLE - 3 WIRE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
USB	RECEPTACLE WITH USB CHARGING CAPABILITES
AC	RECEPTACLE MOUNTED ABOVE COUNTER
CW	RECEPTACLE MOUNTED IN CASEWORK
D	ELECTRIC HAND DRYER
T	THERMOSTAT
	OPEN/CLOSE/STOP PUSH BUTTON
1	DRAWING KEY NOTES
ROOM 100	ROOM DESIGNATION
GFCI WP	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE WITH A WEATHER PROOF COVER
GFCI 44"	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE MOUNTED AT 44" ABOVE FINISHED FLOOR

ELECTRICAL SHEET LIST

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" FINISHED FLOOR	MOUNTING HEIGHT ABOVE TO CENTER OF DEVICE
A	AMPS
A.D.	ACCESS DOOR
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONING UNIT
AC	ABOVE COUNTER
AD	AREA DRAIN (SEE SYMBOLS)
A.F.C.	ABOVE FINISHED CEILING
A.F.G.	ABOVE FINISHED GRADE
AIC	AMPS INTERRUPTING CAPACITY
A.F.F.	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
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
GFCI / GFI	GROUND FAULT CIRCUIT INTERRUPTER
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRS/LB	GRAINS PER POUND
H 2O	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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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ELECTRICAL COVER SHEET

FOR CONSTRUCTION

REV.	DESC.	DATE:

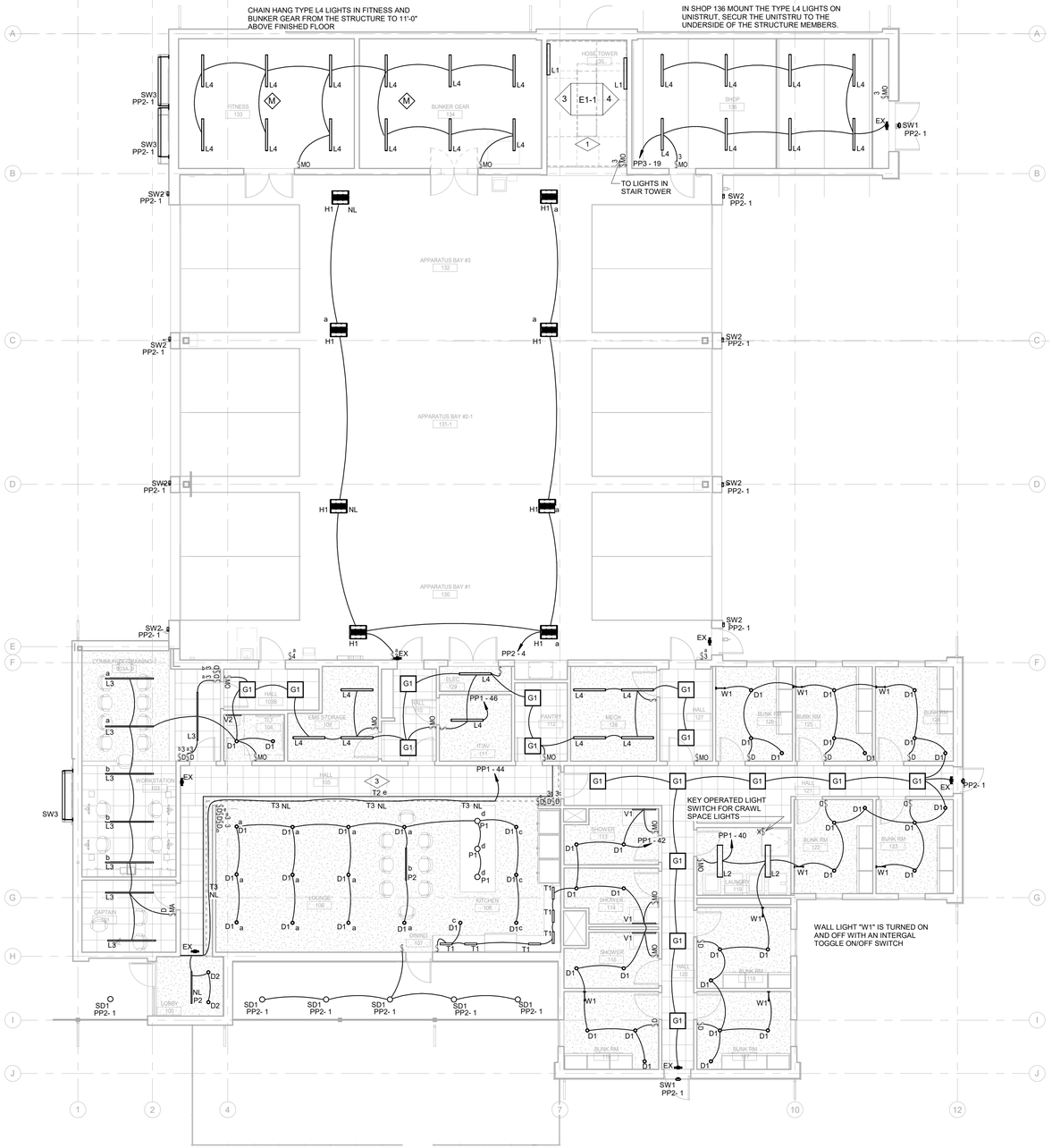
DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E0-1

Project Team: BCE
Print Date: 2/25/2021 9:10:27 AM

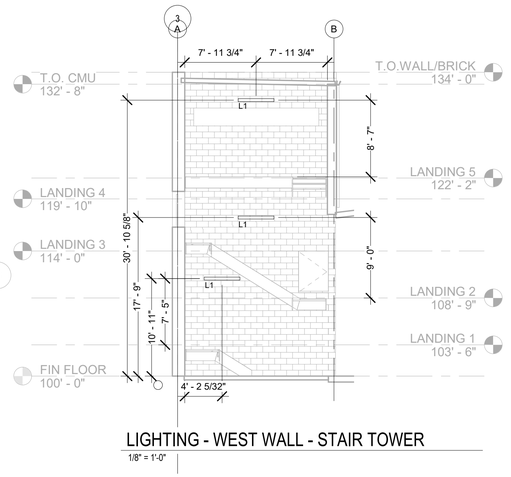


NORTH

LIGHTING - FLOOR PLAN

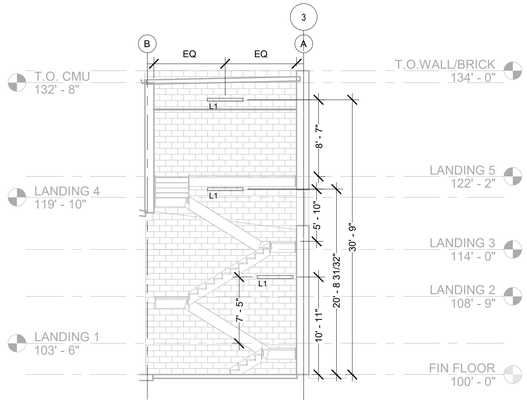
1/8" = 1'-0"

E1-1 LIGHTING KEYNOTES	
Note Number	Note Text
1	PROVIDE TYPE "L1" LIGHT FIXTURES IN STAIR TOWER. REFER TO STAIR TOWER ELEVATIONS FOR MOUNTING HEIGHTS. FIELD ADJUST THE MOUNTING HEIGHTS TO WORK WITH THE COURSE WORK OF THE BRICKS. CIRUIT THE LIGHTS IN THE TOWER WITH THE LIGHTS IN THE MEZZANINE.
3	PROVIDE CONTINUOUS RIBBON LIGHT IN COVE, THE 4" "T3" SECTIONS WILL BE UNSWITCHED FOR NIGHT LIGHT USE.



LIGHTING - WEST WALL - STAIR TOWER

1/8" = 1'-0"



LIGHTING - EAST WALL - STAIR TOWER

1/8" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

LIGHTING - FLOOR PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E1-1

Project Team: BCE
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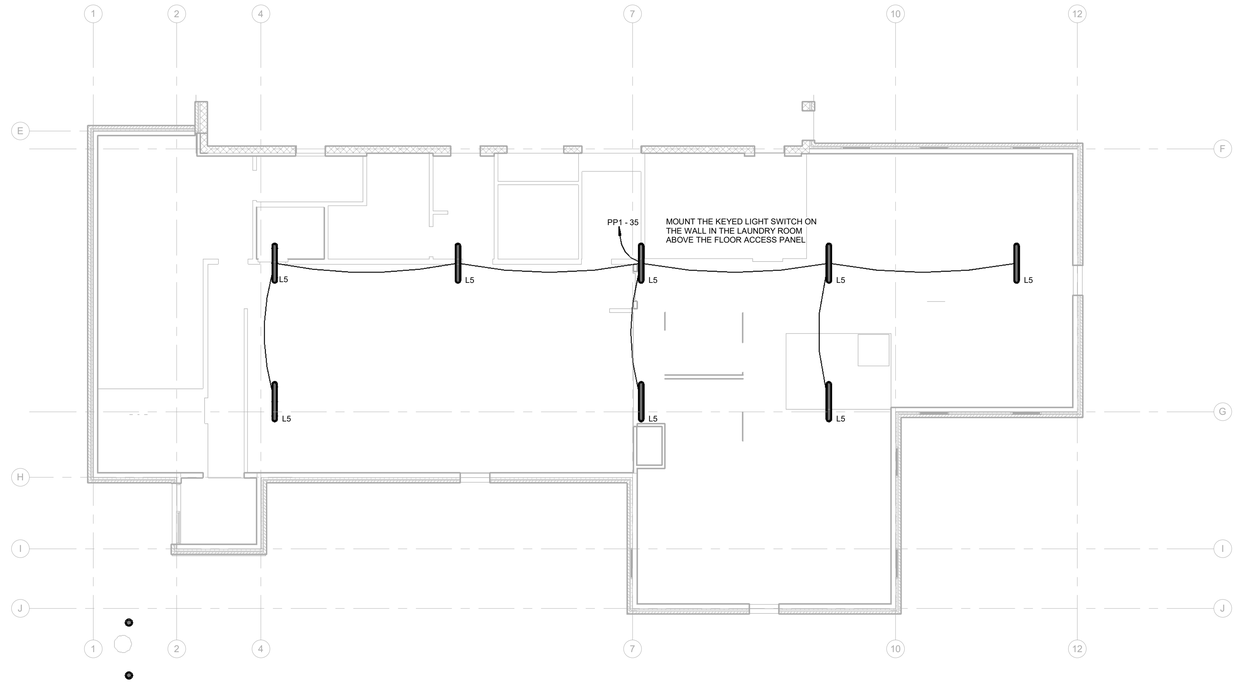
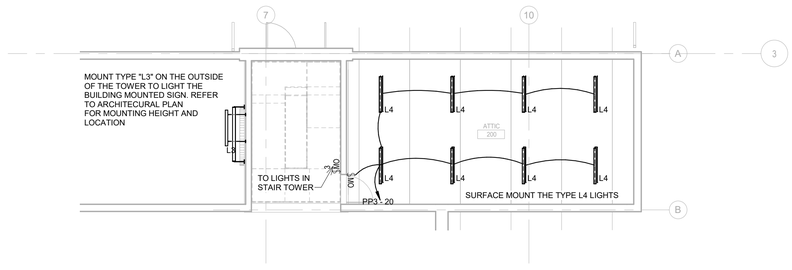


NORTH

LIGHTING - CRAWL SPACE PLAN

1/8" = 1'-0"



NORTH

LIGHTING - MEZZANINE PLAN

1/8" = 1'-0"

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

LIGHTING - FLOOR PLANS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

PROJECT #: 20-213

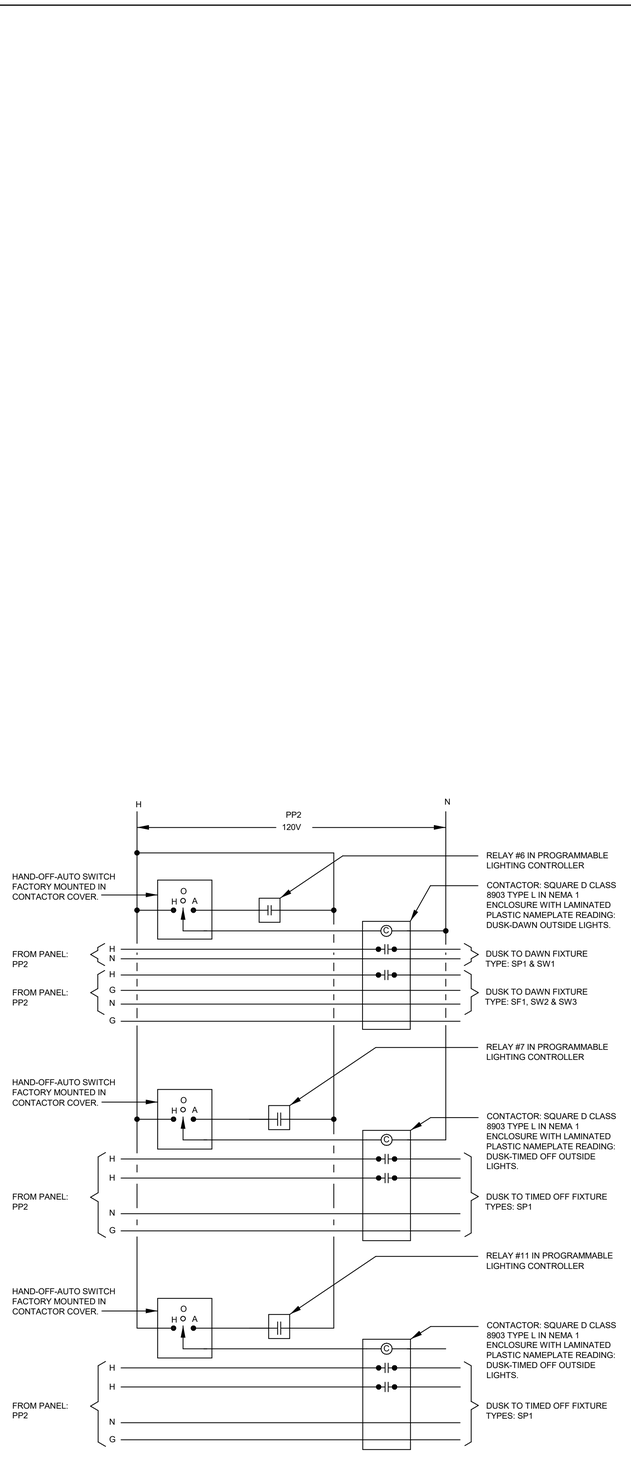
SHEET #:

E1-2

Project Team: BCE
Print Date: 2/25/2021 9:10:34 AM

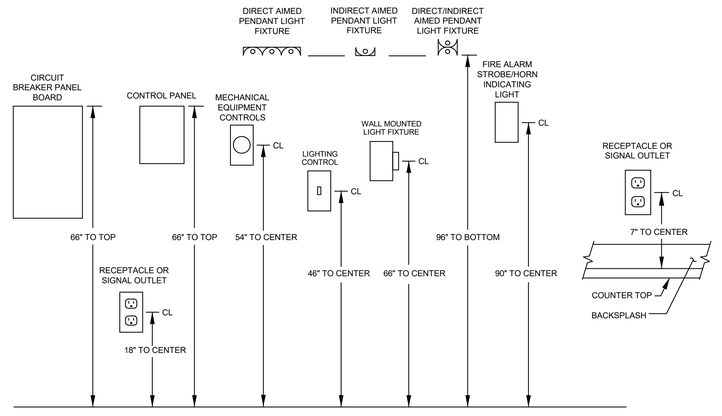
LIGHTING FIXTURE SCHEDULE

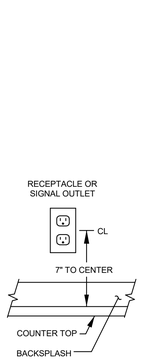
TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
D1	PRESCOLITE LIGHTING	LF4SL-4LFSL-20L-35K-8-B6	2000LM, 3500K, 22W, 80CRI, 120V, 0-10V LED DIMMING	RECESSED LED DOWN LIGHT, 0-10V DRIVER, SEMI-DIFFUSE CLEAR ALZAK TRIM, SEMI-DIFFUSE REF. FINISH
D2	PRESCOLITE LIGHTING	LC4SL-4LFSL-20L-35K-8-WW-B6	2000LM, 3500K, 22W, 80CRI, 120V, 0-10V LED DIMMING	RECESSED LED WALL WASH DOWN LIGHT, 0-10V DRIVER, SEMI-DIFFUSE CLEAR ALZAK TRIM, SEMI-DIFFUSE REF. FINISH
EX	COMPASS LIGHTING	CE-CAG	1.5W LED	LED EXIT LIGHT, WHITE HOUSING, GREEN LETTERING, SELF -DIAGNOSTICS, NICKEL CADIUM BATTERY
G1	COLUMBIA LIGHTING	LJT22-35VLG-FS-SFA-EDU-C588-G2	4265LM, 3500K, 42W, 80CRI, 0-10V LED DIMMING	2x2 LED RECESSED GRID TROFFER, WHITE FINISH ON STEEL HOUSING, SMOOTH FROSTED ACRYLIC SHEILDING.
H1	COLUMBIA LIGHTING	PEL-2-35-MH-FP-W-ED-U-F3CS-LHVQM5	24,320LM, 3500K, 80CRI, 0-10V LED DIMMING,	PELOTON HIGH PERFORMANCE HIGH BAY LED FIXTURE, WIDE DISTRIBUTION, FROSTED POLYCARBONATER LENS, AIRCRAFT CABLE HANGER.
L1	PINNACLE ARCHITECTURAL LIGHTING	EX4D-A-N-835-4'-WA-U-PL2-1	3000LM, 3500K, 26W, 80CRI, 0-10V LED DIMMING	WALL MOUNTED EDGE LINEAR FIXTURE, PROVIDE DOWN SHIELDING WHICH OBSCURES THE LED SOURCE, WHITE FINISH
L2	COLUMBIA LIGHTING	RLW-4-35-LW-4'-FA-W-ED-U	4251LM, 3500K, 34W, 0-10V LED DIMMING	REVALUME™ LINEAR WRAP, WHITE FINISH, FROSTED ACRYLIC SHIELDING.
L3	PINNACLE ARCHITECTURAL LIGHTING	EX1B-A-BW-835HO-835-6-AC48*-U-PL2-1-0-W	723948LM DIRECT, 2772LM INDIRECT, 79W, 80CRI, 0-10V LED DIMMING	6'L EDGE BIDIRECTIONAL LINEAR FIXTURE, SATIN LENS DIRECT SHIELDING, BATWING LENS INDIRECT SHIELDING, 15/16" BEVELED GRID MOUNTING, PROVIDE JUNCTION BOX MOUNTING FOR LIGHT MOUTNED TO GY CEILINGS
L4	COLUMBIA LIGHTING	MPS-4-35-ML-C-W-ED-U	4556LM, 3500K, 40W, 0-10V LED DRIVER	4' MULTIPURPOSE LINEAR LED FIXTURE, FROSTED ACRYLIC LENS, WIDE DISTRIBUTION.
L5	COLUMBIA LIGHTING	LXEM-4-35-HL-4-RP-ED-U	12350LM, 4000K, 80CRI, 99W, 120V	4' LINEAR ROUGH SERVICE WET LISTED IP65 AND IP66 RATED, ACRYLIC LENS
P1	BRUCK LIGHTING	LLED-35K-90-830-MC-PWH	1150LM, 3500K, 90CRI, 14.9VA, 0-10V LED DIMMING	MOUTH-BLOWN GLASS PENDANT, CLEAR SHADE, MATTE CHROME FUNISH, WHITE CANOPY AND CABLE,
P2	TECH LIGHTING	700LSSPAN48-S-LED930	3622LM, 3000K, 90CRI, 76W, 0-10V DIMMING	SPAN LINEAR SUSPENSION FIXTURE, SATIN NICKEL FINISH, CABLE HUNG
T1	FINELITE LIGHTING	UC-E-22-S-PS-8W CP-*	380LM, 3500K, 87CRI, 6.1W, 120V, NON DIMMING LED	EDGE UNDER CABINET MOUNTED LIGHT FIXTURE. PROVIDE MOUNTING HARDWARE, DRIVERS, POWER SUPPLIES AND ALL NECESSARY COMPOINENTS. SILVER FINISH.
T2	CONTECH LIGHTING	TLZ24V235K 12R TLP24VHW96 ENC120V; TLCIP19HW TLPDIM10V TLPRPT TLACD6 TLAL*D6 TLACDC4 TLACDE2	358LM/FT, 3500K, 3.5W/FT, 80CRI, 120V LED DIMMING	TL TAPELIGHT SERIES, CLEAR LENS, REFER TO THE ARCHITECT REFELCTED CEILING PLAN FOR RUN LENGTH
T3	CONTECH LIGHTING	TLZ24V235K 12 TLP24VHW20 ENC; TLCIP19HW TLPDIM10V TLPRPT TLACD6 TLAL*D6 TLACDC4 TLACDE2	358LM/FT, 3500K, 3.5W/FT, 80CRI, 120V LED DIMMING	TL TAPELIGHT SERIES, CLEAR LENS, REFER TO THE ARCHITECT REFELCTED CEILING PLAN FOR RUN LENGTH
V1	WAC LIGHTING	WS-77636-3500K-30W-2561-AL	2561LM, 3500K, 30W, 120V , ELV LED DIMMING	3'L BRINK WALL MOUNTED VANITY LIGHT, BRUSHED ALUMINUM FINISH, MOUNT HORZIONTALLY OVER THE BATHROOM MIRROR.
V2	WAC LIGHTING	WS-77624-3500K-30W-2561-AL	1720LM, 3500K, 21W, 120V , ELV LED DIMMING	2'L BRINK WALL MOUNTED VANITY LIGHT, BRUSHED ALUMINUM FINISH, MOUNT HORZIONTALLY OVER THE BATHROOM MIRROR.
W1	CONTECH LIGHTING	BL3JM-WW-NK	70LM, 3000K, 5W LED	LED WALL MOUNTED BED LAMP, JUNCTION BOX MOUNTED. WARM WHITE LAMP COLOR TEMPERTURE, BRUSHED NICKEL FINISH,TOGGLE SWITCH.



EXTERIOR LIGHTING CONTROL

NO SCALE





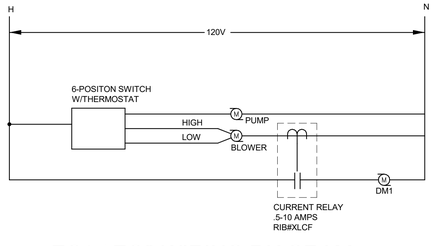
DEFAULT MOUNTING HEIGHTS

NO SCALE

CALCULATE BOX MOUNTING HEIGHT FOR WALL MOUNTED LIGHT FIXTURES USING APPROVED FIXTURE SUBMITTALS.

CALCULATE PENDANT LENGTH FOR HANGING LIGHTING FIXTURES USING APPROVED FIXTURE SUBMITTALS.

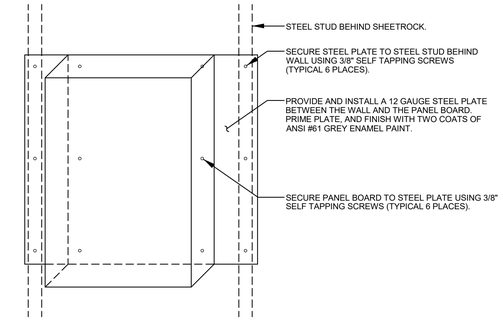
MOUNTING HEIGHTS SHOWN ON THE PLANS, IN ROOM KEYS, OR DEVICE TAGS TAKE PRECEDENCE OVER THE ABOVE.



EC1 / EC2 WIRING DIAGRAM

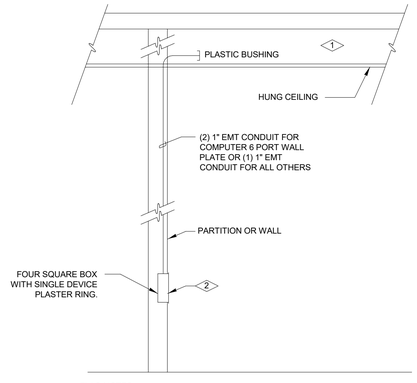
NO SCALE

ADJUST CURRENT RELAY TO OPEN DAMPER WHEN BLOWER MOTOR IS RUNNING AT LOW SPEED.



SEISMIC SUPPORT OF PANELBOARDS

NO SCALE



FLAG NOTES:

1. WIRING TO BE RUN ABOVE CEILING. USE PLENUM RATED CABLE WHERE CEILING SPACE IS USED AS A RETURN PLENUM. SUPPORT FROM STRUCTURE MIN. OF EVERY 6'-0". DO NOT LAY ON CEILING TILE OR ATTACH TO CEILING SUPPORT WIRE SYSTEM UNLESS INSTALLATION CONFORMS TO 2002 NEC 300-11.

2. LOW VOLTAGE OUTLETS (EXAMPLE TELEPHONE, FAX, DATA, ETC..) MOUNT AT 16" A.F.F. UNLESS OTHERWISE NOTED ON THE DRAWINGS, COORDINATE LOCATIONS WITH BASEBOARD, CABINETRY, WINDOWS OR OTHER ITEMS ALONG THE WALLS. REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER.

LOCATE THERMOSTATS AT 60" A.F.F. UNLESS OTHER WISE NOTED ON THE DRAWINGS, COORDINATE LOCATIONS WITH CABINETRY, WINDOWS OR OTHER ITEMS ALONG THE WALLS. REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER.

LOW VOLTAGE OUTLET WIRING DETAIL

NOT TO SCALE

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

LIGHTING - DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

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Project Team: BCE
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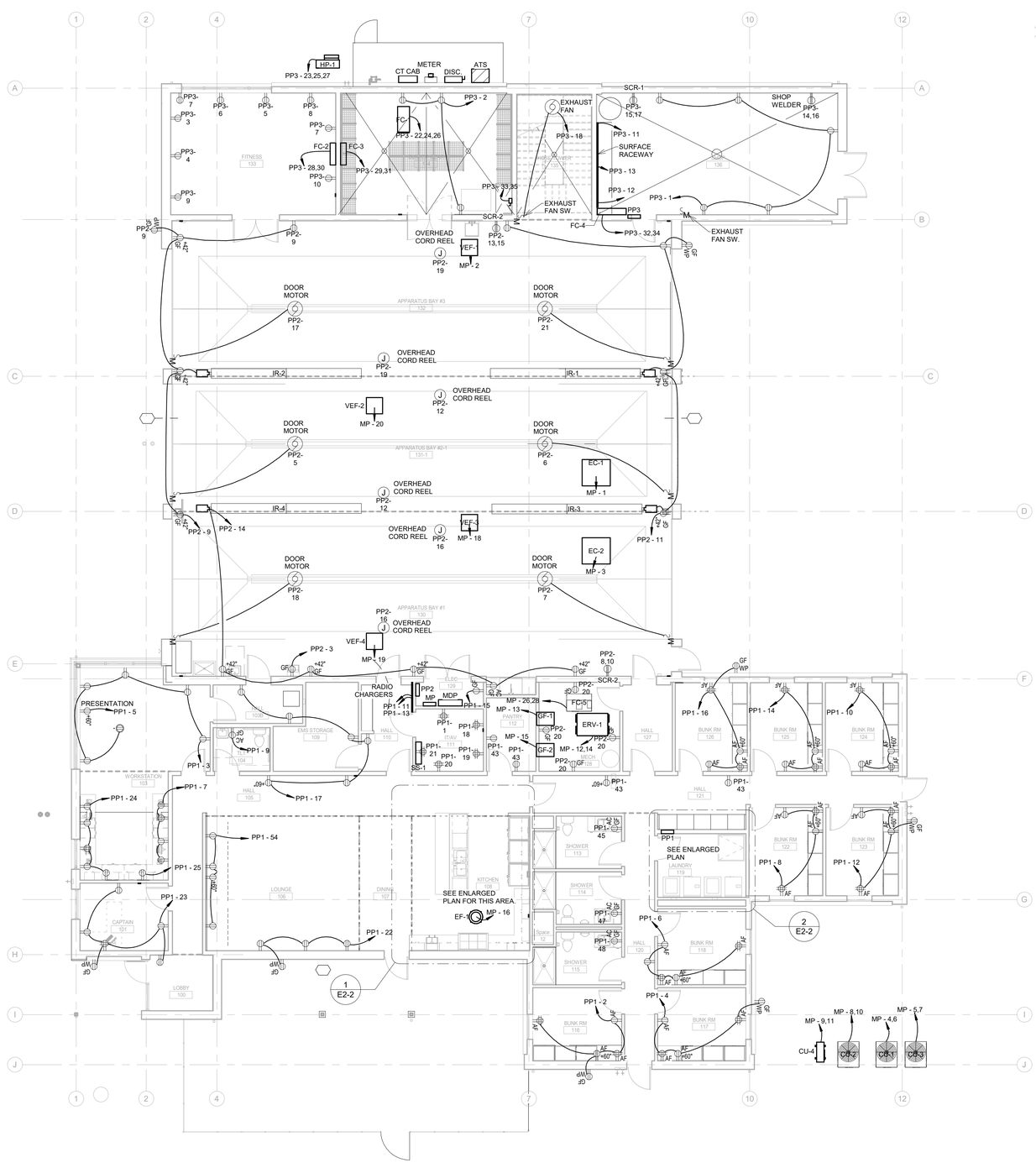

ELECTRICAL - FLOOR PLAN

1/8" = 1'-0"

Project Team: BCE

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ELECTRICAL - FLOOR PLAN

FOR CONSTRUCTION

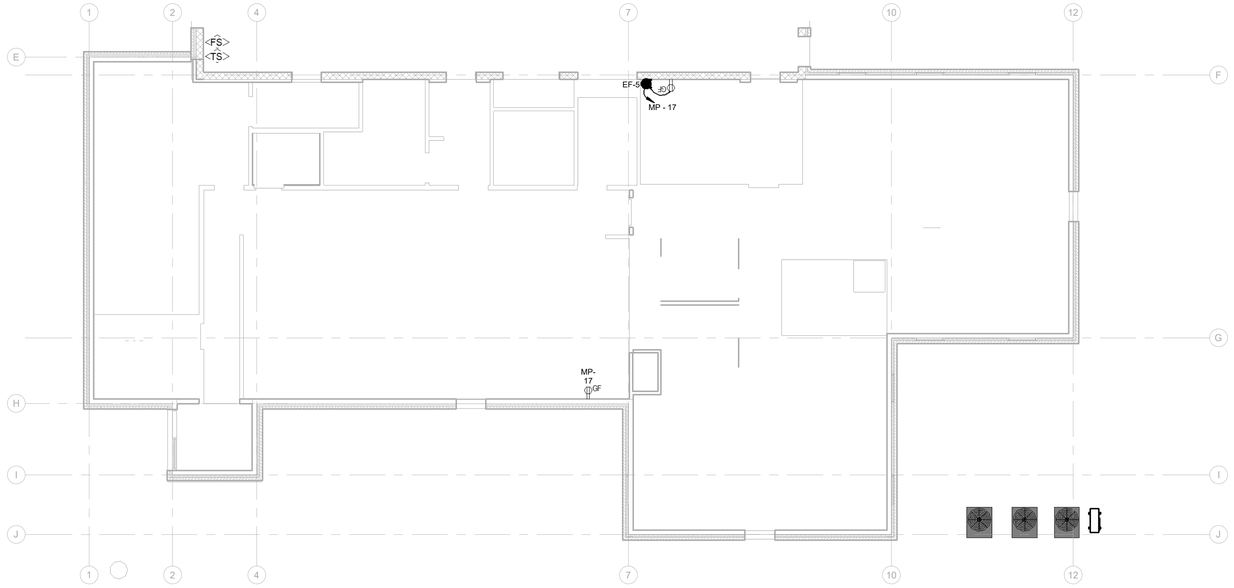
REV. DESC. DATE:

DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

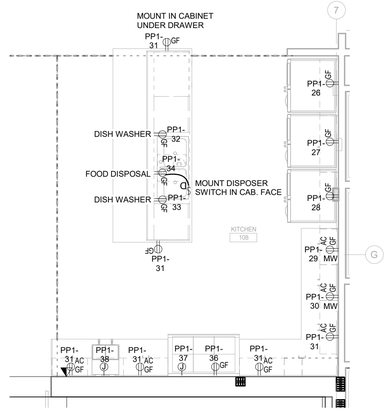
E2-1



NORTH

ELECTRICAL - CRAWL SPACE PLAN

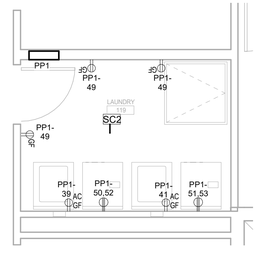
1/8" = 1'-0"



NORTH

ELECTRICAL - FLOOR PLAN - ENLARGED - KITCHEN AND LOUNGE

1/4" = 1'-0"



NORTH

ELECTRICAL - FLOOR PLAN - LAUNDRY ROOM

1/4" = 1'-0"

BG+ co.

Architecture
Interior Design
Project Management

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

BLYTHE GROUP + co.

Bighorn Consulting Engineers, Inc.
Mechanical & Electrical Engineers

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Grand Junction, CO 81501
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101 W 11th Street #109-C
Durango, CO 81301
Phone: (970) 422-7676

GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ELECTRICAL - PARTIAL FLOOR PLANS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E2-2

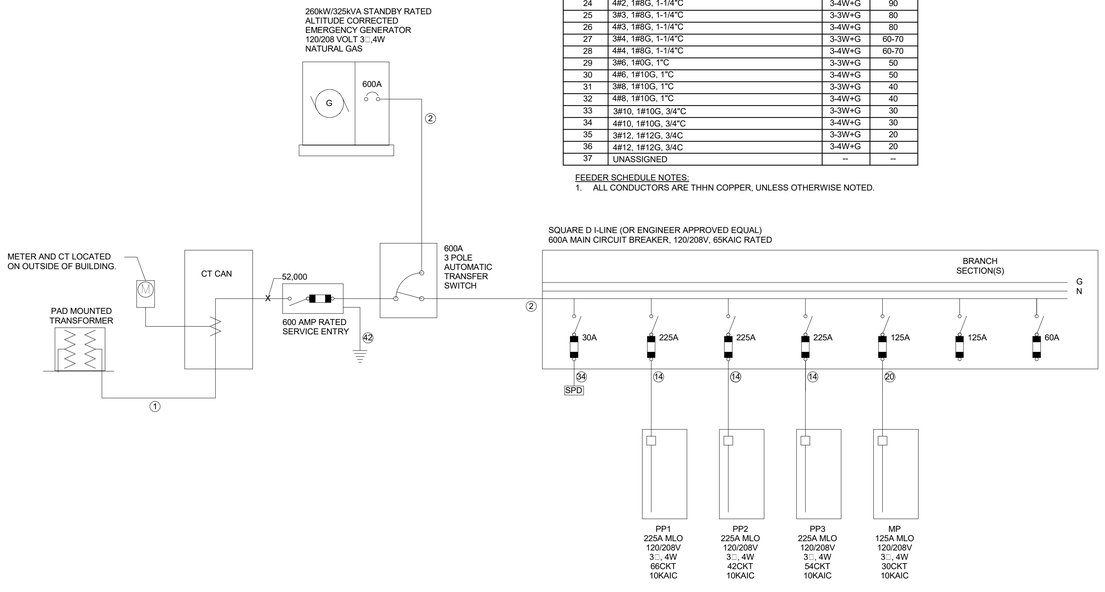
Project Team: BCE
Print Date: 2/25/2021 9:10:41 AM

CONDUIT AND FEEDER SCHEDULE			
FEEDER NO.	FEEDER NO.	PHASE	AMPS
1	2[3-350 kcmil, 1-#1G, 3"C]	3-3W+G	600
2	2[4-350 kcmil, 1-#1G, 3"C]	3-4W+G	600
3	2[3-250 kcmil, 1-#2G, 3"C]	3-3W+G	500
4	2[4-250 kcmil, 1#2G, 3"C]	3-4W+G	500
5	2[3-3/0, 1#3G, 2"C]	3-3W+G	400
6	2[4-3/0, 1#3G, 2"C]	3-4W+G	400
7	2[3-2/0, 1#3G, 2"C]	3-3W+G	350
8	2[4-2/0, 1#3G, 2"C]	3-4W+G	350
9	3-350 kcmil, 1#4G, 3"C	3-3W+G	300
10	4-350 kcmil, 1#4G, 3"C	3-4W+G	300
11	3-250 kcmil, 1#4G, 3"C	3-3W+G	250
12	4-250 kcmil, 1#4G, 3"C	3-4W+G	250
13	3-4/0, 1#4G, 2"C	3-3W+G	225
14	4-4/0, 1#4G, 2-1/2"C	3-4W+G	225
15	3-3/0, 1#6G, 2"C	3-3W+G	200
16	4-3/0, 1#6G, 2"C	3-4W+G	200
17	3-2/0, 1#6G, 2"C	3-3W+G	175
18	3-1/0, 1#6G, 2"C	3-4W+G	175
19	3-1/0, 1#6G, 2"C	3-3W+G	125-150
20	4-1/0, 1#6G, 2"C	3-4W+G	125-150
21	3#1, 1#6G, 1-1/2"C	3-3W+G	100-110
22	4#1, 1#6G, 1-1/2"C	3-4W+G	100-110
23	3#2, 1#8G, 1-1/4"C	3-3W+G	90
24	4#2, 1#8G, 1-1/4"C	3-4W+G	90
25	3#3, 1#8G, 1-1/4"C	3-3W+G	80
26	4#3, 1#8G, 1-1/4"C	3-4W+G	80
27	3#4, 1#8G, 1-1/4"C	3-3W+G	60-70
28	4#4, 1#8G, 1-1/4"C	3-4W+G	60-70
29	3#6, 1#0G, 1"C	3-3W+G	50
30	4#6, 1#10G, 1"C	3-4W+G	50
31	3#8, 1#10G, 1"C	3-3W+G	40
32	4#8, 1#10G, 1"C	3-4W+G	40
33	3#10, 1#10G, 3/4"C	3-3W+G	30
34	4#10, 1#10G, 3/4"C	3-4W+G	30
35	3#12, 1#12G, 3/4C	3-3W+G	20
36	4#12, 1#12G, 3/4C	3-4W+G	20
37	UNASSIGNED	--	--

FEEDER SCHEDULE NOTES:
1. ALL CONDUCTORS ARE THHN COPPER, UNLESS OTHERWISE NOTED.

COPPER GROUNDING CONDUCTORS			
38	1#8 CU, 1/2"C	G	
39	1#6 CU, 1/2"C	G	
40	1#4 CU, 3/4"C	G	
41	1#2 CU, 3/4"C	G	
42	1#1/0 CU, 3/4"C	G	
43	1#2/0 CU, 3/4"C	G	
44	1#3/0 CU, 3/4"C	G	

FEEDER SCHEDULE NOTES:
1. ALL CONDUCTORS ARE COPPER UNLESS OTHERWISE NOTED.



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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ELECTRICAL - MAIN DISTRIBUTION DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E3-1

Project Team: BCE
Print Date: 2/25/2021 9:10:41 AM

Branch Panel: PP1

Location: LAUNDRY 119
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle IT/AV 111	20 A	1	360 VA	1260...					1	20 A	Receptacle BUNK RM 116	2
3	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1			1080...	1260...			1	20 A	Receptacle BUNK RM 117	4
5	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1					180 VA	1260...	1	20 A	Receptacle BUNK RM 118	6
7	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1	720 VA	1080...					1	20 A	Receptacle BUNK RM 122	8
9	Receptacle TLT 104	20 A	1			180 VA	1080...			1	20 A	Receptacle BUNK RM 124	10
11	WIREMOLD HALL 110	20 A	1					1200...	1260...	1	20 A	Receptacle BUNK RM 123	12
13	WIREMOLD HALL 110	20 A	1	1200...	1080...					1	20 A	Receptacle BUNK RM 125	14
15	Receptacle 129 151	20 A	1			180 VA	1260...			1	20 A	Receptacle BUNK RM 126	16
17	Receptacle Space 25	20 A	1					1080...	360 VA	1	20 A	Receptacle IT/AV 111	18
19	Receptacle IT/AV 111	20 A	1	360 VA	360 VA					1	20 A	Receptacle IT/AV 111	20
21	Receptacle IT/AV 111	20 A	1			360 VA	720 VA			1	20 A	Receptacle LOUNGE 106	22
23	Receptacle CAPTAIN 101	20 A	1					1260...	900 VA	1	20 A	Receptacle WORKSTATION /TRAINING-1 103-1	24
25	Receptacle WORKSTATION /TRAINING-1 103-1	20 A	1	180 VA	180 VA					1	20 A	Receptacle KITCHEN 108	26
27	Receptacle KITCHEN 108	20 A	1			180 VA	180 VA			1	20 A	Receptacle KITCHEN 108	28
29	Receptacle KITCHEN 108	20 A	1					180 VA	180 VA	1	20 A	Receptacle KITCHEN 108	30
31	Receptacle KITCHEN 108	20 A	1	1080...	180 VA					1	20 A	Receptacle KITCHEN 108	32
33	Receptacle KITCHEN 108	20 A	1			864 VA	180 VA			1	20 A	Receptacle KITCHEN 108	34
35	Other	20 A	1					792 VA	180 VA	1	20 A	Receptacle KITCHEN 108	36
37	Receptacle KITCHEN 108	20 A	1	180 VA	180 VA					1	20 A	Receptacle KITCHEN 108	38
39	WASHER LAUNDRY 119	20 A	1			864 VA	968 VA			1	20 A	Lighting BUNK ROOMS	40
41	WASHER LAUNDRY 119	20 A	1					180 VA	768 VA	1	20 A	Lighting LOUNGE 106	42
43	Receptacle MECH 128	20 A	1	720 VA	363 VA					1	20 A	Lighting LOUNGE 106	44
45	Receptacle SHOWER 113	20 A	1			180 VA	870 VA			1	20 A	Lighting CAPTAIN 101	46
47	Receptacle SHOWER 114	20 A	1					180 VA	180 VA	1	20 A	Receptacle SHOWER 115	48
49	Receptacle LAUNDRY 119	20 A	1	540 VA	1500...					2	30 A	DRYER LAUNDRY 119	50
51	DRYER LAUNDRY 119	30 A	2			1500...	1500...			--	--		52
53	--	--	--					1500...	720 VA	1	20 A	Receptacle LOUNGE 106	54
55	Spare	20 A	1	0 VA									56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	64
65	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	66
		Total Load:		11523 VA		13406 VA		12360 VA					
		Total Amps:		96 A		113 A		104 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	2837 VA	100.00%	2837 VA		
Other	3252 VA	100.00%	3252 VA	**Total Conn. Load:**	37289 VA
Receptacle	31128 VA	66.06%	20564 VA	**Total Est. Demand:**	26725 VA
Autre	72 VA	100.00%	72 VA	**Total Conn.:**	104 A
				Total Est. Demand:	74 A

Notes:

Branch Panel: MP

Location: ELEC 129
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 125 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EVAPORATIVE COOLER APPARATUS BAY #2-...	20 A	1	1920...	1656...					1	20 A	VEHICLE EXHAUST APPARATUS BAY #2-2...	2
3	EVAPORATIVE COOLER APPARATUS BAY #2...	20 A	1			1920...	2912...			2	40 A	CU-1 CONDENSING UNIT	4
5	CU-3 CONDENSING UNIT	30 A	2					2496...	2912...	--	--	--	6
7	--	--	--	2496...	2496...					2	30 A	CU-2 CONDENSING UNIT	8
9	CU-4 CONDENSING UNIT	20 A	2			1144...	2496...			--	--	--	10
11	--	--	--					1144...	1144...	2	20 A	ERV-1 MECH 128	12
13	GAS FURNACE MECH 128	20 A	1	1200...	1144...					--	--	--	14
15	GF-2 GAS FURNACE MECH 128	20 A	1			1200...	864 VA			1	20 A	EF-1 EXHAUST FAN	16
17	EF-5 EXHAUST FAN	20 A	1					386 VA	1656...	1	20 A	VEHICLE EXHAUST APPARATUS BAY #2-2...	18
19	VEHICLE EXHAUST APPARATUS BAY #2-2...	20 A	1	1656...	1656...					1	20 A	VEHICLE EXHAUST APPARATUS BAY #2-2...	20
21	Spare	20 A	1			0 VA							22
23	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	1005...					2	20 A	FC-5 FAN COIL MECH 128	26
27	Spare	20 A	1			0 VA	1005...			--	--	--	28
29	Spare	20 A	1					0 VA					30
		Total Load:		15229 VA		11541 VA		9737 VA					
		Total Amps:		129 A		98 A		81 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	31 VA	100.00%	31 VA		
HVAC	20969 VA	100.00%	20969 VA	**Total Conn. Load:**	36506 VA
Other	15152 VA	100.00%	15152 VA	**Total Est. Demand:**	36506 VA
Receptacle	360 VA	100.00%	360 VA	**Total Conn.:**	101 A
				Total Est. Demand:	101 A

Notes:

Branch Panel: PP2

Location: ELEC 129
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Lighting	20 A	1	408 VA	520 VA					1	20 A	Lighting - Exterior	2
3	Receptacle APPARATUS BAY #1 130	20 A	1			180 VA	1264...			1	20 A	Lighting APPARATUS BAYS	4
5	OVERHEAD DOOR	20 A	1					1012...	1012...	1	20 A	OVERHEAD DOOR	6
7	OVERHEAD DOOR	20 A	1	1012...	1905...					2	20 A	SCR-2 APPARATUS BAY #1 130	8
9	Receptacle APPARATUS BAY #3 132	20 A	1			900 VA	1905...			--	--	--	10
11	Receptacle APPARATUS BAY #3 132	20 A	1					900 VA	1000...	1	20 A	CORD REEL	12
13	SCR 2 IN APPARATUS BAY #3 132	25 A	2	1945...	900 VA					1	20 A	Receptacle APPARATUS BAY #1 130	14
15	--	--	--			1945...	1000...			1	20 A	CORD REEL	16
17	OVERHEAD DOOR	20 A	1					1012...	1012...	1	20 A	OVERHEAD DOOR	18
19	CORD REEL	20 A	1	1000...	720 VA					1	20 A	Receptacle MECH 128	20
21	OVERHEAD DOOR	20 A	1			1012...							22
23													24
25													26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	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
		Total Load:		8410 VA		8206 VA		5948 VA					
		Total Amps:		73 A		71 A		50 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1712 VA	100.00%	1712 VA		
Lighting - Exterior	480 VA	125.00%	600 VA	**Total Conn. Load:**	22563 VA
Motor	6072 VA	100.00%	6072 VA	**Total Est. Demand:**	22034 VA
Other	0 VA	0.00%	0 VA	**Total Conn.:**	63 A
Power	3000 VA	100.00%	3000 VA	**Total Est. Demand:**	61 A
Receptacle	11299 VA	94.25%	10650 VA		

Notes:

Branch Panel: PP3

Location: SHOP 136
Supply From: MDP
Mounting: Surface
Enclosure: Type 1

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

A.I.C. Rating:
Mains Type:
Mains Rating: 225 A
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	Receptacle SHOP 136	20 A	1	900 VA	540 VA					1	20 A	Receptacle BUNKER GEAR-1 134-1	2
3	Receptacle FITNESS-1 133-1	20 A	1			180 VA	180 VA			1	20 A	Receptacle FITNESS-1 133-1	4
5	Receptacle FITNESS-1 133-1	20 A	1					180 VA	180 VA	1	20 A	Receptacle FITNESS-1 133-1	6
7	Receptacle FITNESS-1 133-1	20 A	1	360 VA	180 VA					1	20 A	Receptacle FITNESS-1 133-1	8
9	Receptacle FITNESS-1 133-1	20 A	1			180 VA	180 VA			1	20 A	Receptacle FITNESS-1 133-1	10
11	SURFACE RACEWAY SHOP 136	20 A	1					1200...	1200...	1	20 A	SURFACE RACEWAY SHOP 136	12
13	SURFACE RACEWAY SHOP 136	20 A	1	0 VA	3000...					2	50 A	WELDER SHOP 136	14
15	SCR-1 SHOP 136	25 A	2			1945...	3000...			--	--	--	16
17	--	--	--					1945...	1012...	1	20 A	Motor	18
19	Lighting Room 133-2, 134-2, 200	20 A	1	818 VA	320 VA					1	20 A	Lighting Room 200	20
21	Receptacle ATTIC 200	20 A	1			900 VA	1788...			3	20 A	FC-1 BUNKER GEAR-2 134-2	22
23	HP-1 EXTERIOR HEAT PUMP	20 A	3					1941...	1788...	--	--	--	24
25	--	--	--	1941...	1788...					--	--	--	26
27	--	--	--			1941...	40 VA			2	20 A	FC-2 FAN COIL	28
29	FC-3 FAN COIL BUNKER GEAR-2 134-2	20 A	2					40 VA	40 VA	--	--	--	30
31	--	--	--	40 VA	66 VA					2	20 A	FC-4 SHOP 136	32
33	EXTRACTOR BUNKER GEAR-1 134-1	20 A	2			2042...	66 VA			--	--	--	34
35	--	--	--					2042...					36
37	EF-2 EXHAUST FAN BUNKER GEAR-2 134-2	20 A	1	100 VA									38
39	EF-3 EXHAUST FAN ATTIC 200	20 A	1			100 VA	100 VA			1	20 A	EF-4 EXHAUST FAN HOSE TOWER 135	40
41													42
43													44
45													46
47													48
49													50
51													52
53													54
		Total Load:		10033 VA		12602 VA		11567 VA					
		Total Amps:		84 A		107 A		98 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Cooling	300 VA	100.00%	300 VA		
Lighting	1120 VA	100.00%	1120 VA	**Total Conn. Load:**	34202 VA
Motor	1012 VA	100.00%	1012 VA	**Total Est. Demand:**	32277 VA
Other	13895 VA	100.00%	13895 VA	**Total Conn.:**	95 A
Power	4084 VA	100.00%	4084 VA	**Total Est. Demand:**	90 A
Receptacle	13850 VA	86.10%	11925 VA		

Notes:

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Interior Design
Project Management

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Phone: (970) 422-7676

GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ELECTRICAL PANEL SCHEDULES

FOR CONSTRUCTION

REV. DESC. DATE:

DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E3-2

Project Team: BCE
Print Date: 2/25/2021 9:10:43 AM

POWER FOR ENERGY RECOVERY VENTILATOR SCHEDULE

TYPE MARK	SERVICE	LOCATION	SUPPLY FAN					EXHAUST FAN					ELECTRICAL		MANUFACTURER	MODEL #	Panel	Circuit Number
			MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY	MOTOR HP	TYPE	VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)				
ERV-1	VENTALATION	MECHANICAL ROOM	0.5	ECM	230	1	60 Hz	0.5	ECM	230 V	1	60 Hz	11 A	15 A	SOLER&PALUA	TRCE800-230	MP	12,14

POWER FOR FAN COIL SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING (BTU/H)	NOM. HEATING	SUPPLY FAN MOTOR POWER	ELECTRICAL					UNIT WEIGHT	MANUFACTURER	MODEL #	Panel	Circuit Number
					VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)					
FC-1	OUTSIDE AIR	-	5 KW	1/6	208 V	3	60 Hz	14.90 A	20 A	118.00 lb	MARKEL	F3G7205	PP3	22,24,26
FC-2	FITNESS	12000	13500 BTU/H	-	230 V	2	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFYP012HM142A	PP3	28,30
FC-3	BUNKER GEAR	15000	17000 BTU/H	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFYP015HM142A	PP3	29,31
FC-4	SHOP	15000	17000 BTU/H	-	230 V	1	60 Hz	0.38 A	15 A	29.00 lb	TRANE/MITSUBISHI ELECTRIC	TPKFYP015HM142A	PP3	32,34
FC-5	KITCHEN MAKE-UP-AIR	35000	-	1	208 V	1	60 Hz	9.66 A	15 A	230.90 lb	TRANE	BCVD036B1	MP	26,28

POWER FOR EXHAUST FAN SCHEDULE

TYPE MARK	SERVICE	LOCATION	EXHAUST FAN MOTOR POWER	MOTOR		ELECTRICAL FREQUENCY	MANUFACTURER	MODEL #	Panel	Circuit Number
				EXHAUST FAN SPEED (RPM)	VOLTS	PHASE				
EF-1	KITCHEN HOOD	ROOF	1/3 HP	1750	115 V	1	60 Hz	S&P USA	STXDE10	MP	16
EF-2	BUNKER GEAR	CEILING	1/6 HP	740	115 V	1	60 Hz	S&P USA	FF200S	PP3	37
EF-3	SHOP	CEILING	1/5 HP	648	115 V	1	60 Hz	S&P USA	FF400S	PP3	39
EF-4	STAIR TOWER	CEILING	2/3 HP	955	115 V	1	60 Hz	S&P USA	FF1500S	PP3	40
EF-5	CRAWL SPACE	INLINE	75 W	-	115 V	1	60 Hz	FANTECH	FG 4XL	MP	17
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP		120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	20
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP		120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	2
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP		120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	18
VEF1,2,3,4	APPARATUS BAYS	CEILING SUSPENDED	3/4 HP		120 V	1	60 Hz	AIRVAC	AIRVAC 911 ENGINE EXHAUST REMOVAL	MP	19

POWER FOR GAS FURNACE SCHEDULE

MARK	SERVICE	NOM. COOLING CAPACITY (MBH)	SUPPLY FAN MOTOR POWER	ELECTRICAL					MANUFACTURER	MODEL #	Panel	Circuit Number
				VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)				
GF-1	KITCHEN,LIVING, DINING, OFFICES	36	1	120 V	1	60 Hz	14 A	15 A	TRANE	4TXCD10DS3	MP	13
GF-2	BUNK ROOMS & ADJACENT	22.5	3/4	120 V	1	60 Hz	8 A	15 A	TRANE	4PXCBU36BS3	MP	15
GF-12												
GF-13												
GF-14												
GF-15												
GF-16												
GF-17												
GF-18												
GF-19												
GF-21												
GF-22												

POWER FOR AIR CONDITIONING EQUIPMENT SCHEDULE

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (BTU/HR)	NOM. HEATING CAPACITY (BTU/HR)	ELECTRICAL				MANUFACTURER	MODEL #	Panel	Circuit Number	POWERED FROM
				VOLTS	PHASE	FREQUENCY	MCA (A)					
CU-4	IT ROOM	12000	-	208 V	1	60 Hz	11 A	MITSUBISHI ELECTRIC	PUY-A12NKA7	MP	9,11	
SS-1	IT ROOM	12000	-	208 V	1	60 Hz	1 A	MITSUBISHI ELECTRIC	PKA-A12HA77			CU-4 POWERS UNIT

POWER FOR GAS FIRED INFARED HEATER SCHEDULE

MARK	SERVICE	ELECTRICAL						MANUFACTURER	MODEL #	Panel	Circuit Number
		VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)	MOTOR HP				
IR-1	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	11
IR-2	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	9
IR-3	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	11
IR-4	APPARATUS BAY	120 V	1	60 Hz	1 A	2 A	-	SUPERIOR RADIANT PRODUCTS	UA-60	PP2	14

POWER FOR AIR COOLED CONDENSING UNIT

TYPE MARK	SERVICE	NOM. COOLING CAPACITY (TONS)	ELECTRICAL					MANUFACTURER	MODEL #	Panel	Circuit Number
			VOLTS	PHASE	FREQUENCY	MCA (A)	MOCP (A)				
CU-1	GF-1	4 TONS	230 V	1	60 Hz	28 A	45 A	TRANE	4TTR7048B	MP	4,6
CU-2	GF-2	3 TONS	230 V	1	60 Hz	24 A	35 A	TRANE	4TTR7036A	MP	8,10
CU-3	FC-5	3 TONS	230 V	1	60 Hz	24 A	35 A	TRANE	4TTR7036A	MP	5,7

POWER FOR EVAPORATIVE COOLER SCHEDULE

MARK	ELECTRICAL			MOTOR HP	MANUFACTURER	MODEL #	Panel	Circuit Number
	VOLTS	PHASE	FREQUENCY					
EC-1	120 V	1	60 Hz	1	PHOENIX	PH6802C	MP	1
EC-2	120 V	1	60 Hz	1	PHOENIX	PH6802C	MP	3

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

EQUIPMENT SCHEDULES

FOR CONSTRUCTION

REV. DESC. DATE:

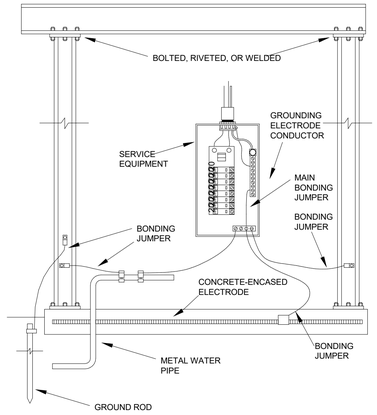
DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E3-3

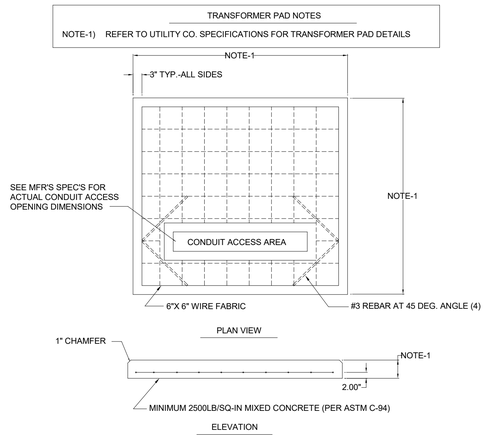
Project Team: BCE
Print Date: 2/25/2021 9:10:44 AM



GROUNDING ELECTRODE SYSTEM DETAIL

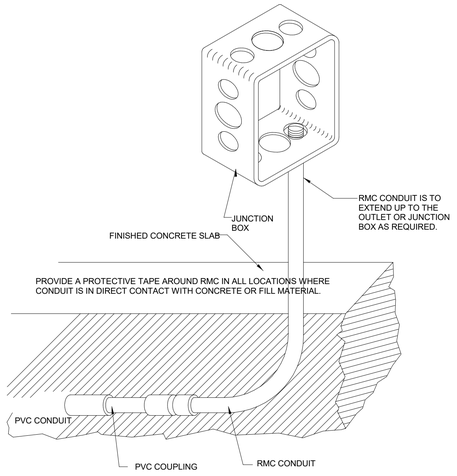
NOT TO SCALE

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



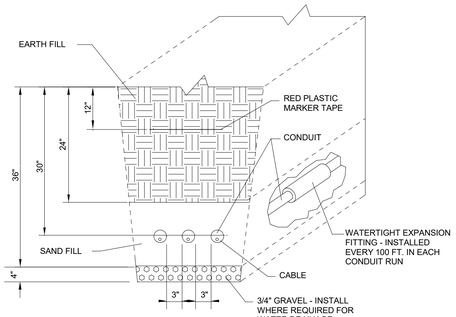
DISTRIBUTION TRANSFORMER BASE DETAIL

NOT TO SCALE



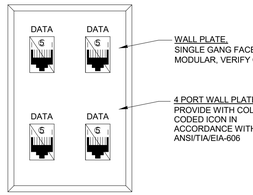
INSTALLATION OF PVC CONDUIT EMERGING FROM CONCRETE SLAB

NOT TO SCALE



INSTALLATION OF UNDERGROUND CONDUITS

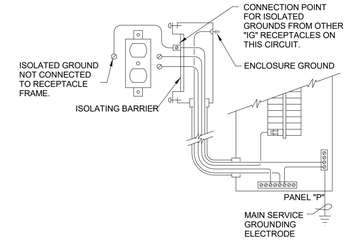
NOT TO SCALE



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.

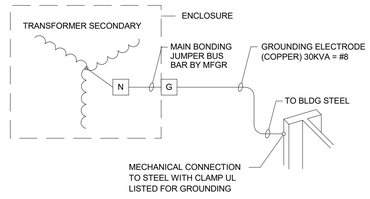
TYPICAL TELECOMMUNICATIONS OUTLET

NOT TO SCALE



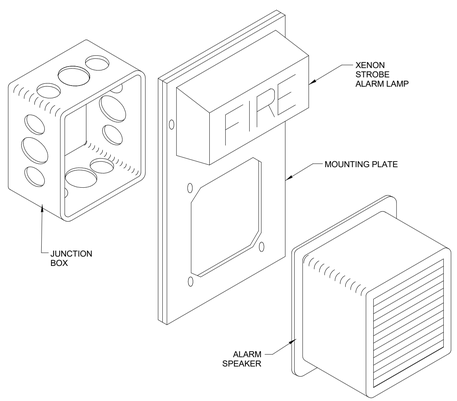
ISOLATED GROUND RECEPTACLE

NOT TO SCALE:



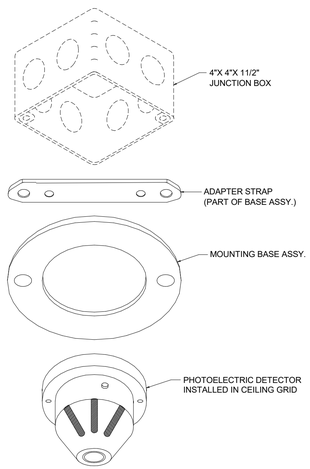
TRANSFORMER GROUNDING DETAIL

NOT TO SCALE



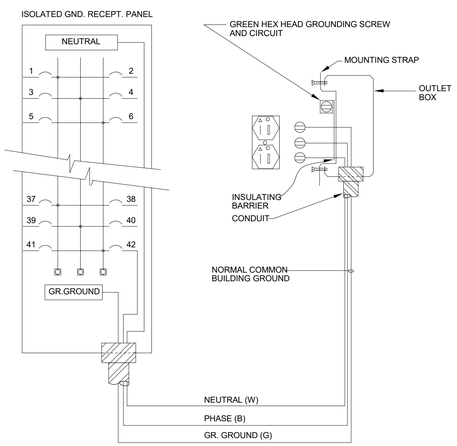
FIRE ALARM SPEAKER/STROBE LIGHT MOUNTING DETAIL

NOT TO SCALE



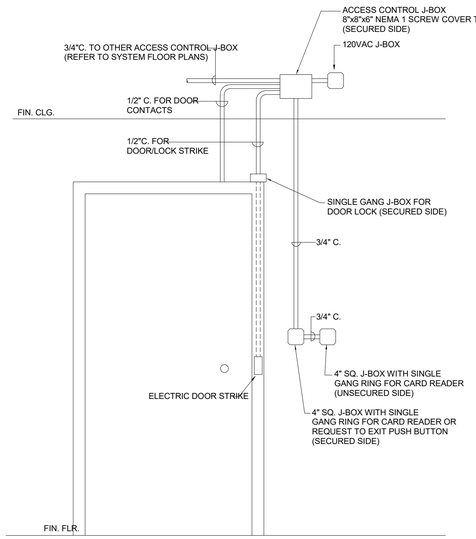
TYPICAL SMOKE DETECTOR MOUNTING DETAIL

NOT TO SCALE



TYPICAL RECEPTACLE WIRING DIAGRAM

NOT TO SCALE



ACCESS CONTROL CONDUIT FOR CARD READER SYSTEM USING STRIKE DETAIL

NOT TO SCALE

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ELECTRICAL DETAILS

FOR CONSTRUCTION

REV.	DESC.	DATE:

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Project Team: BCE
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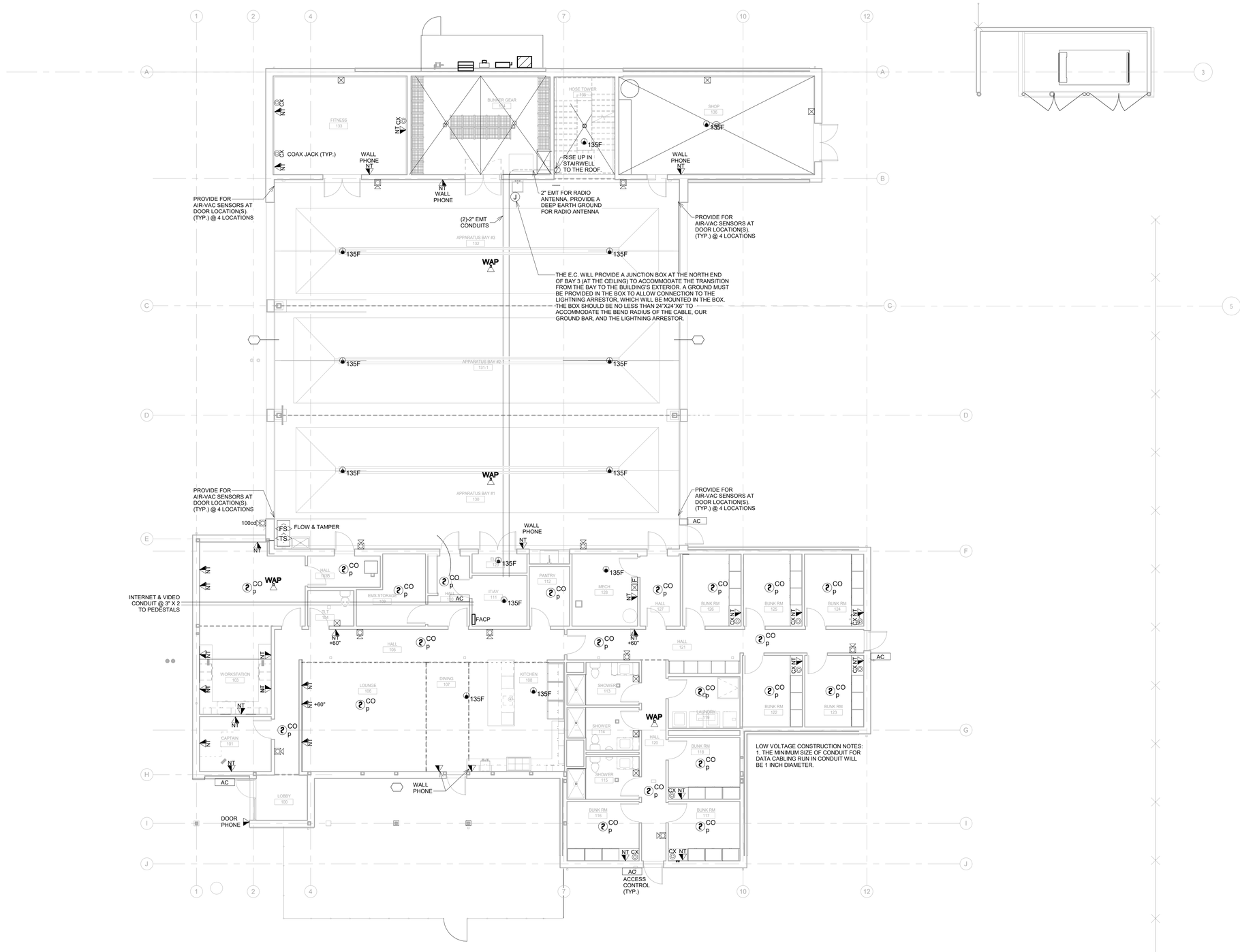

1 SYSTEMS - FLOOR PLAN
1/8" = 1'-0"

Project Team: BCE
Print Date: 2/25/2021 9:10:49 AM

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

SYSTEMS - FLOOR PLAN

FOR CONSTRUCTION

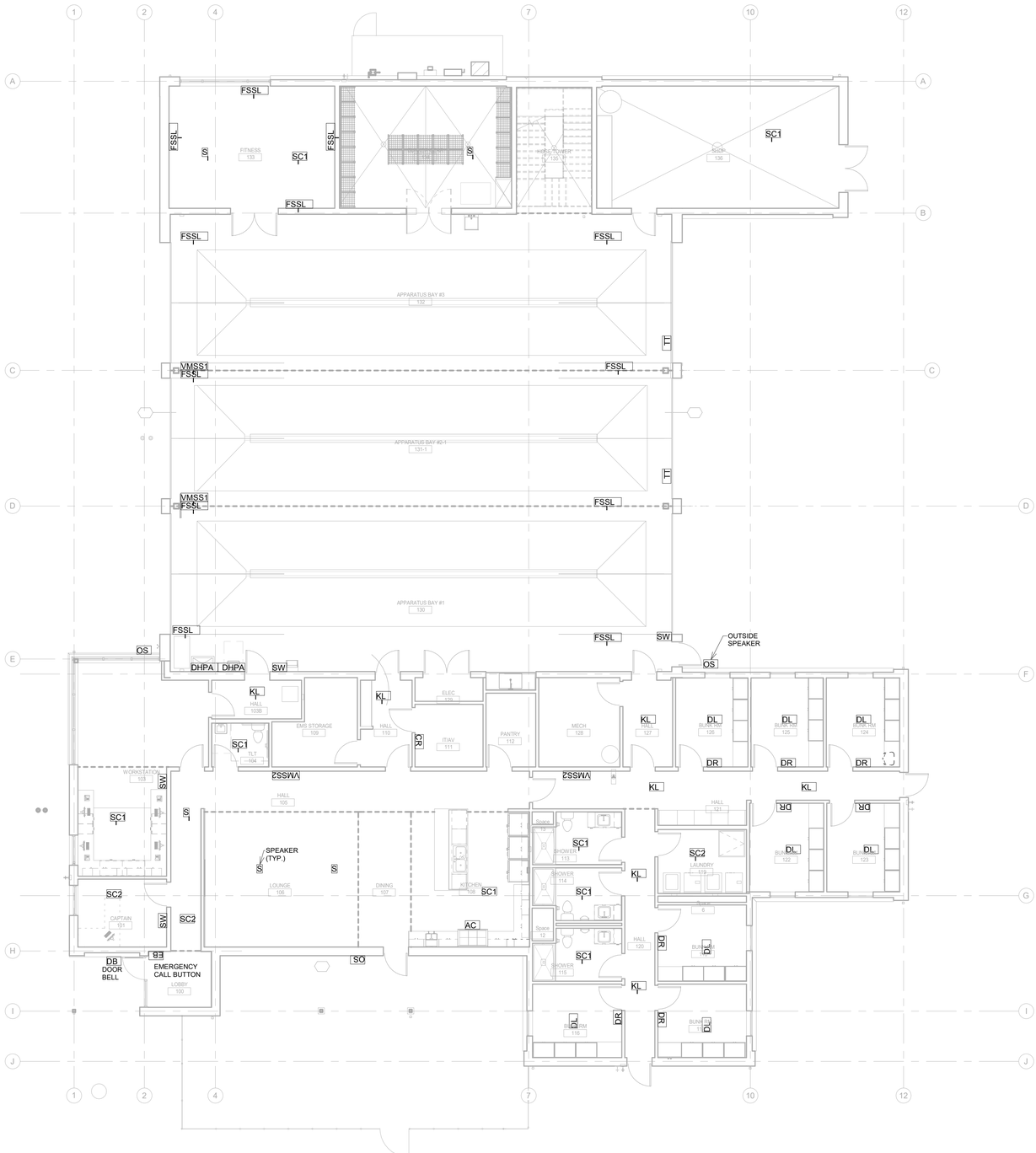
REV.	DESC.	DATE:

DATE: 2-25-2021

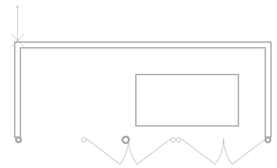
PROJECT #: 20-213

SHEET #:

E4-1



1 ALERTING SYSTEMS - FLOOR PLAN
1/8" = 1'-0"



NOTES REFERENCED ON THE PLANS:

DR (DORM REMOTE):
RECEIVE HOFFMAN BOX - PART 43050 CAT #A-SEI0X8X4 FROM WESTNET. MOUNT CENTER LINE OF BOX AT 48" AFF. CENTER BOX ON HEADBOARD OF BED. RECESS IN WALL 1/4" BELOW SHEETROCK. PROVIDE 3 - 3/4" EMT CONDUITS TO THE SPACE ABOVE THE ACCESSIBLE CEILING WITH BUSHINGS AND PULL STRINGS. WIRING SHALL BE DONE BY WESTNET.

DL (DORM LIGHT):
NO WORK BY ELECTRICAL SUB. LIGHT IS LINE POWERED THROUGH CAT 5 CABLE. WIRING BY WESTNET.

SC1 (SATELLITE CONTROLLER):
RECEIVE HOFFMAN BOX - PART 43050 CAT #A-SE10X8X4 FROM WESTNET. RECESS IN CEILING 1/4" ABOVE SHEETROCK. PROVIDE 2 - 3/4" EMT CONDUITS TO THE SPACE ABOVE THE ACCESSIBLE CEILING WITH BUSHINGS AND PULL STRINGS. WIRING SHALL BE DONE BY WESTNET.

SC2 (SATELLITE CONTROLLER):
BOX AND RACEWAYS NOT REQUIRED FOR ACCESSIBLE CEILING INSTALLATION. WIRING SHALL BE DONE BY WESTNET.

SC1 (SATELLITE CONTROLLERS) & S (SATELLITE SPEAKER) :
RECEIVE HOFFMAN BOX - PART 43050 CAT #A-SE10X8X4 FROM WESTNET. MOUNT BOX ON UNDERSIDE OF TRUSS OR BAR JOIST. PROVIDE 1" EMT CONDUIT TO THE SIGNAL JUNCTION BOX AT THE CEILING OF BUNKER GEAR ROOM. WIRING SHALL BE DONE BY WESTNET.

ASC (ALERT SYSTEM CABLES):
PROVIDE TWO 2" EMT CONDUITS FOR THE ALERTING SYSTEM CABLES FROM THE IT ROOM TO THE TWO 6" X 12" X 12" JUNCTION BOXES ON THE UNDER SIDE OF THE ROOF TRUSSES.

AC (APPLIANCE CONTROLLER); RB (RESET BUTTON):
THE APPLIANCE CONTROLLER IS TO BE MOUNTED ABOVE THE CEILING. PROVIDE RECEPTACLE ABOVE THE CEILING FOR POWER. THE RESET BUTTON IS TO MOUNTED IN A SINGLE GANG DEEP BOX AT 48" AFF. PROVIDE A 1" CONDUIT TO THE SPACE ABOVE THE CEILING. SEE GAS SOLENOID WIRING DIAGRAM ON THIS SHEET. SOLENOID VALVE WIRING SHALL BE DONE BY THE ELECTRICAL SUB-CONTRTACTOR.

VMSS1 (VIDEO MESSENGER):
PROVIDE A SINGLE GANG DEEP BOX AT 84" AFF. PROVIDE A 1" CONDUIT TO THE JUNCTION BOX AT THE CEILING OF THE APPARATUS BAY. WIRING TO BE DONE BY WESTNET.

OS (OUTSIDE SPEAKER):
PROVIDE A FLUSH SINGLE GANG DEEP BOX AT 10'-0" AFG FOR OUTSIDE SPEAKER. PROVIDE A 3/4" CONDUIT TO A 4" SQUARE BOX FOR THE OUTSIDE SATELLITE CONTROLLER (OSC) ABOVE THE ACCESSIBLE CEILING.

SW (SPEAKER SWITCH):
PROVIDE A SINGLE GANG DEEP BOX AT 46" AFF. PROVIDE A 3/4" CONDUIT TO THE SPACE ABOVE THE ACCESSIBLE CEILING. COORDINATE BOX LOCATION WITH WESTNET.

KL (NIGHT LIGHT):
PROVIDE A SINGLE GANG DEEP BOX FLUSH WITH CEILING. DEVICE, TRIM AND WIRING BY WESTNET. DB (DOOR BELL) -

EB (EMERGENCY BUTTON):
PROVIDE A SINGLE GANG DEEP BOX AT 46" AFF. PROVIDE A 3/4" CONDUIT TO THE SPACE ABOVE THE ACCESSIBLE CEILING. DEVICE, TRIM AND WIRING BY WESTNET.

FSAS (ALERTING SYSTEM STROBE):
RECEIVE HOFFMAN BOX PART #55741, CAT #A-SE8X8X4. MOUNT ON UNDERSIDE OF TRUSS OR BAR JOIST. PROVIDE 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY. WIRING TO BE DONE BY WESTNET.

FSSL (FS STROBE LIGHT):
RECEIVE CUSTOM BACK BOX FROM WESTNET. MOUNT BOX VERTICALLY IN WALL WITH TOP AT 6'-0" AFF. PROVIDE 3/4" EMT CONDUIT TO ALERTING SYSTEM STROBE (FSAS).

TT (TURN-OUT TIMER) AND CI (COMPANY INDICATOR):
PROVIDE A 4" SQUARE DEEP SINGLE GANG BOX MOUNTED AT 10'-0" AFF. PROVIDE 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY.

HPS (HIGH POWER PAGING AMPLIFIER & SPEAKER):
PROVIDE A 4" SQUARE SINGLE GANG BOX MOUNTED ON THE UNDERSIDE OF THE TRUSS OR BAR JOIST. PROVIDE A 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARATUS BAY.

4PR (4-POST RACK):
ALERTING SYSTEM UPS (4) TO BE MOUNTED IN 4-POST EQUIPMENT RACK. ALERTING SYSTEM MASTER CONTROL UNIT TO BE MOUNTED IN 4-POST EQUIPMENT RACK.

CR (CONTROL REMOTE):
RECEIVE 12"X18"X6" HINGED COVER JUNCTION BOX FROM WESTNET. MOUNT ON WALL AT 48" AFF. CONTROL REMOTE CONTAINS 24V RELAYS FOR CONTROL OF ELECTRICAL DEVICES IN THE BUILDING SUCH AS THE GAS RANGE CONTROL CIRCUIT. WIRE CONTROL REMOTE RELAY CONTACTS TO PROGRAMMABLE LIGHTING CONTROLLER PER WIRING DIAGRAMS ON THE PLANS.

VMMS2 (VIDEO MESSENGER):
PROVIDE A SINGLE GANG DEEP BOX AT 72" AFF. PROVIDE A 1" CONDUIT TO THE SPACE ABOVE THE ACCESSIBLE CEILING. WIRING TO BE DONE BY WESTNET.

DHPA (HP AMPLIFIER):
SEE ALERTING SYSTEM DRAWINGS FOR RACEWAY REQUIREMENTS.

TT (TURN-OUT TIMER)
PROVIDE A 4" SQUARE SINGLE GANG BOX MOUNTED @ 10' AFF. PROVIDE A 3/4" EMT CONDUIT TO JUNCTION BOX AT CEILING OF APPARTUS BAT.

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

ALERTING - FLOOR PLAN

FOR CONSTRUCTION

REV.	DESC.	DATE:

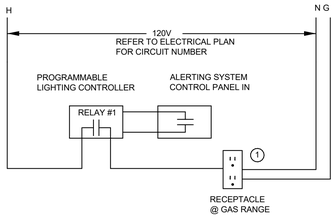
DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E4-2

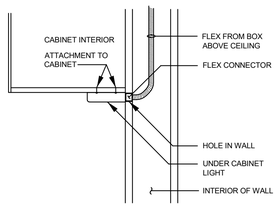
Project Team: BCE
Print Date: 2/25/2021 9:10:52 AM



GAS RANGE CONTROL WIRING DIAGRAM

NO SCALE

(1) CONTROL CIRCUIT FOR GAS RANGE TO BE DE-ENERGIZED BY ALERTING SYSTEM WHEN FIREMEN ARE ON A CALL TO PREVENT RANGE AUTO PILOT FROM CONTINUALLY LIGHTING WHEN GAS VALVE IS CLOSED.



INSTALLATION DETAIL - TASK LIGHT

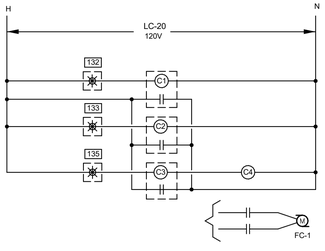
NO SCALE

CONCEAL WIRING OF TASK LIGHTS AS FOLLOWS:

1. CUT A HOLE IN THE WALL AT THE HEIGHT OF THE UNDER CABINET LIGHT LARGE ENOUGH TO ACCOMMODATE THE FLEX CONNECTOR.

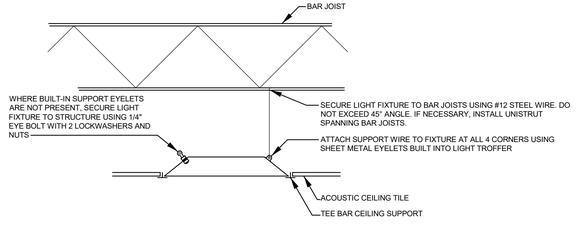
2. PULL 6" OF FLEX THROUGH THE WALL AND TERMINATE IT ON THE UNDER CABINET LIGHT.

3. PUSH THE ASSEMBLY INTO THE WALL SO THAT THE FIXTURE IS AGAINST THE WALL AND THE FLEX AND CONNECTOR ARE CONCEALED INSIDE THE WALL. CONNECT THE UNDER CABINET LIGHT TO UNDERSIDE OF THE CABINET.



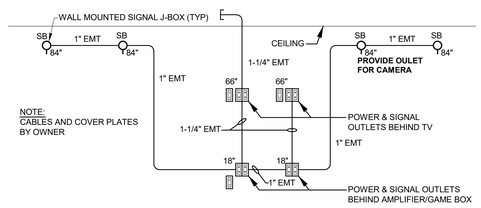
FAN COIL WIRING DIAGRAM (FC-1)

NO SCALE



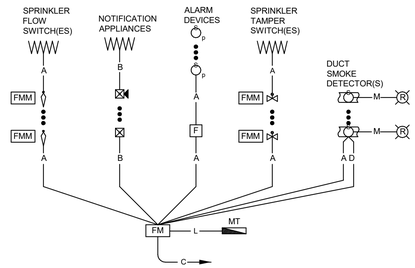
SEISMIC SUPPORT OF RECESSED LIGHTS

NO SCALE



LOUNGE - TV/SURROUND SOUND

NO SCALE



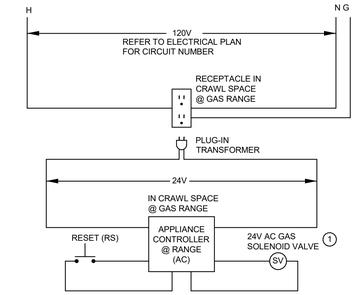
FIRE ALARM SYSTEM RISER

NO SCALE

ADDRESSABLE FIRE ALARM SYSTEM

DESIG-NATION	DEVICE		BOX	COVER
	DESCRIPTION	MANUFACTURER CATALOG NUMBER ALTERNATE MANUFACTURERS	DESCRIPTION	DESCRIPTION
FA	ADDRESSABLE FIRE ALARM: ANNUNCIATOR, RATED 24 VDC. 80 CHARACTER BACKLIT LIQUID CRYSTOL DISPLAY WITH CONTROL SWITCHES FOR ACKNOWLEDGE, SILENCE AND RESET, TIME & DATE DISPLAY, ENABLE KEY SWITCH & LOCAL ALARM.	NOTIFIER LCD-80 --- --- ---	9.9"H X 4.6"W X 2.5"D NOTIFIER #ABF-1B, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- --- ---
FM	ADDRESSABLE FIRE ALARM: DIGITAL TRANSMITTER, RATED 24 VDC. 14 TRANSMISSIONS PER HOUR, DUAL PHONE LINES, KEYBOARD, 4 CHARACTER LED DISPLAY. TRANSMITS ALARM & TROUBLE SOFTWARE ZONES, SYSTEM TROUBLE AND SUPERVISORY ALARMS.	NOTIFIER 411UDACT --- --- ---	9.9"H X 4.6"W X 2.5"D NOTIFIER #ABF-8R, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- --- ---
	ADDRESSABLE FIRE ALARM: SILVER COLOR, DUCT SMOKE DETECTOR, BUILT-IN DPDT RELAY, SAMPLE TUBE, PHOTOELECTRIC TYPE, RATED 24 VDC. PROVIDE SEPARATE REMOTE ALARM INDICATOR WITH TEST SWITCH.	NOTIFIER FSC-751RP & RTS-451 --- ---	NONE REQUIRED --- --- ---	NONE REQUIRED --- --- ---
	ADDRESSABLE FIRE ALARM: HORN/STROBE, RATED 24 VDC. CANDELA OUTPUT FIELD SELECTABLE AMONG 15, 15/75, 30, 75, AND 110, FIELD SELECTABLE HORN TONES, SYNCHRONIZABLE, AND WHITE COLOR.	NOTIFIER P1224MC --- ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---
F	ADDRESSABLE FIRE ALARM: PULL STATION, RATED 24 VDC. DUAL ACTION WITH BI-COLOR ALARM STATUS LED, KEY RESET, AND BRAILLE TEXT ON HANDLE. ---	NOTIFIER NBG-12LX --- ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---
FMM	ADDRESSABLE FIRE ALARM: MONITOR MODULE, RATED 24 VDC. MONITORS SPRINKLER FLOW AND TAMPER SWITCHES, GENERATING AN ALARM AT THE SET ADDRESS ON DEVICE CONTACT CLOSURE. 159 ADDRESSES AVAILABLE.	NOTIFIER FMM-101 --- ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---
FM	ADDRESSABLE FIRE ALARM: MAIN PANEL, BATTERY BACKED, RATED 3A @ 120V. CAPABLE OF 301 TOTAL I/O POINTS, 99 INTELLIGENT DETECTORS, 99 ADDRESSABLE MODULES, 99 PROGRAMMABLE SOFTWARE ZONES AND 4 NAC CIRCUITS.	NOTIFIER AFP-200 --- --- ---	16"H X 14.5"W X 5.5"D, STEEL, WITH KNOCKOUTS, WALL SURFACE MOUNTING. ---	NONE REQUIRED --- --- --- ---
	ADDRESSABLE FIRE ALARM: WHITE COLOR, STROBE, RATED NOTIFIER 24 VDC. CANDELA OUTPUT FIELD SELECTABLE AMONG 15, 15/75, 30, 75, AND 110, FIELD SELECTABLE. ---	S1224MC --- ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---
P	ADDRESSABLE FIRE ALARM: SMOKE DETECTOR, RATED 24 VDC. LASER DEVICE, WITH 2 LED ALARM STATE INDICATORS, BUILT-IN MAGNETIC TEST SWITCH, HIGH SENSATIVITY.	NOTIFIER LPX751L + P710P BASE --- ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---
135°F	ADDRESSABLE FIRE ALARM: WHITE COLOR, HEAT DETECTOR, NOTIFIER RATED 24 VDC. 135 DEGREE F FIXED TEMPERATURE/RATE OF RISE. ---	FST-851R B710LPBP BASE ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---
200°F	OF RISE. ---	FST-851H B710LPBP BASE ---	4" SQ X 2 1/8" DEEP, STEEL, WITH KNOCKOUTS, WALL FLUSH MOUNTING. ---	NONE REQUIRED --- --- ---

NOTES:
DEVICES BY MANUFACTURERS WHICH ARE NOT LISTED IN THE SCHEDULE REQUIRE 5-DAY WRITTEN PRIOR APPROVAL.



GAS SOLENOID VALVE WIRING DIAGRAM

NO SCALE

(1) GAS SOLENOID VALVE TO BE DE-ENERGIZED (CLOSED) BY ALERTING SYSTEM WHEN FIREMEN ARE ON A CALL.

NOTES REFERENCED ON THE PLANS

1. ROUGH-IN FOR DOOR ACCESS CONTROL CARD READER. PROVIDE 1/2" EMT RACEWAY FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE RACEWAY FROM ELECTRIC STRIKE IN DOOR FRAME TO ACCESSIBLE LOCATION ABOVE CEILING. WIRE SYSTEM PER DOOR ACCESS CONTROL SYSTEM SUBMITTAL WIRING DIAGRAM.
2. PROVIDE FLUSH SIGNAL BOX AND 1" EMT TO SPACE ABOVE THE LOBBY CEILING FOR OWNER'S TELEPHONE INTERCOM.
3. PROVIDE JUNCTION BOX AND EMPTY 1" CONDUIT WITH PULL STRINGS BETWEEN ALL JUNCTION BOXES FOR FUTURE SURROUND SOUND SYSTEM.
4. PROVIDE TWO 2" EMT CONDUITS FROM THE IT ROOM TO TWO 6" X 12" X 12" PULL BOXES ON THE UNDER SIDE OF THE ROOF TRUSSES FOR NETWORK AND TELEPHONE, AND THE RADIO ANTENNA. PROVIDE A THIRD EMT CONDUIT FROM THE IT ROOM TO BUNKER GEAR #133, BYPASSING THE PULLBOXES FOR COAXIAL CABLES. PROVIDE ADDITIONAL PULLING POINTS AS NECESSARY TO LIMIT BENDS TO THREE 90'S.
5. PROVIDE A 2" EMT CONDUIT FROM THE PULL BOX TO THE HOSE TOWER ROOF. COORDINATE RISER AND ROOF PENETRATION LOCATIONS WITH OWNER. PROVIDE ADDITIONAL PULLING POINTS AS NECESSARY TO LIMIT BENDS TO THREE 90'S.

FIRE ALARM SYSTEM CABLES

LETTER	DESCRIPTION
A -	SIGNALING LINE CIRCUIT #18/2 SOLID SHIELDED PLENUM RATED FIRE ALARM BELDEN #5220FN
B -	NOTIFICATION APPLIANCE CIRCUIT - #14/2 SOLID PLENUM RATED FIRE ALARM BELDEN #5120UN
C -	120 VOLT POWER CIRCUIT - 1/2 EMT 2 #12 & #12 GROUND COPPER SOUTHWIRE BUILDING WIRE
D -	24 VOLT POWER CABLE - #16/2 SOLID PLENUM RATED FIRE ALARM BELDEN #5220UN
H -	ANNUNCIATOR CABLE - 2 #16/2 SOLID SHIELDED AND 1 #16/2 SOLID UNSHIELDED PLENUM RATED FIRE ALARM TWO BELDEN #5220FN & ONE BELDEN #5220UN
L -	DIALER CIRCUIT - 4 PAIR CATEGORY 5 CABLE BELDEN #1624P
M -	REMOTE TEST CIRCUIT - 18/4 SOLID PLENUM RATED FIRE ALARM BELDEN #5320UN

FIRE ALARM SYSTEM SEQUENCE OF OPERATION

SYSTEM ACTIONS	SMOKE DETECTOR	HEAT DETECTOR	DUCT SMOKE DETECTOR	PULL STATION	SPRINKLER FLOW SWITCH	SPRINKLER TAMPER SWITCH
ACTIVATES SYSTEM NOTIFICATION APPLIANCES	X	X		X	X	
ACTIVATES SYSTEM SUPERVISORY ALARM						X
DISPLAYS AT MAIN FIRE ALARM PANEL	X	X		X	X	X
RELEASES MAGNETICALLY HELD DOORS	X	X		X		
SHUTS DOWN ASSOCIATED AIR HANDLING UNIT			X			
CLOSES FIRE/SMOKE DAMPER	X		X	X		
ACTIVATES DIALER GENERAL ALARM SIGNAL	X	X		X		
ACTIVATES DIALER FLOW ALARM SIGNAL					X	
ACTIVATES DIALER SUPERVISORY SIGNAL						X
ACTIVATES EXTERIOR HORN/STROBE ABOVE FIRE DEPARTMENT CONNECTION	X	X			X	

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GRAND JUNCTION FIRE DEPARTMENT - FIRE STATION #3

580 25 1/2 RD GRAND JUNCTION, COLORADO 81505

SYSTEMS DETAILS

FOR CONSTRUCTION

REV. DESC. DATE:

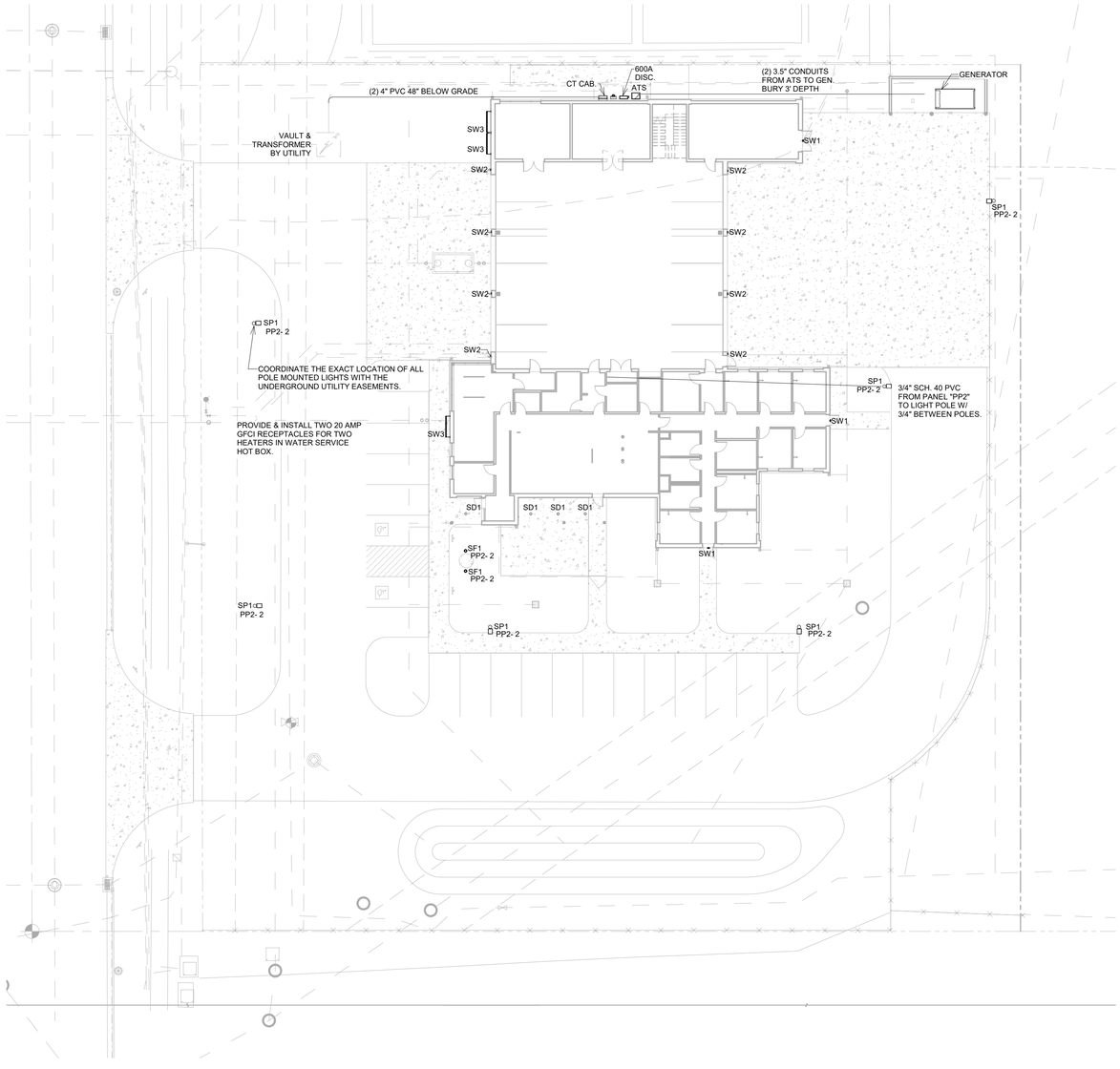
DATE: 2-25-2021

PROJECT #: 20-213

SHEET #:

E4-3

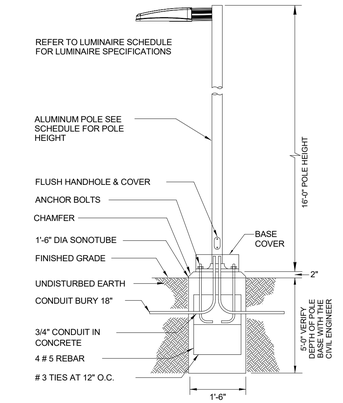
Project Team: BCE
Print Date: 2/25/2021 9:10:52 AM



NORTH

LIGHTING - ELECTRICAL - SITE PLAN

1" = 20'-0"



LIGHT POLE DETAIL

NOT TO SCALE

NOTES:
1. VERIFY THE BURY DEPTH AND DIAMETER OF THE SONOTUBE WITH THE CIVIL ENGINEER PRIOR TO PURCHASING THE EQUIPMENT. DEPTH WILL DEPEND ON SOIL CONDITIONS. TYPICAL CONCRETE DEPTH IS 5 FT.
2. THE ELECTRICAL CONTRACTOR IS TO INSTALL VIBRATION DAMPERS IN ALL POLES, OBTAIN DAMPERS FROM POLE MANUFACTURER FOR EACH ALUMINUM POLE.
3. ALL OUTSIDE LIGHT SOURCES SHALL COMPLY WITH THE LOCAL ZONING AND DEVELOPMENT CODE.
4. NOTIFY ENGINEER OF ANY OBSTRUCTIONS TO POLE PLACEMENT IMMEDIATELY BEFORE PROCEEDING.

SITE LIGHT MOUNTING HEIGHT NOTES:

1. SD1: MOUNT IN THE BUILDING SOFFIT.
2. SP1: MOUNT THE 16'-0" POLE ON A FLUSH BASE.
3. SW1: MOUNT ON THE EXTERIOR WALL AT 8'-0" ABOVE FINISHED FLOOR. CIRCUIT THIS FIXTURE TO PROVIDE EMERGENCY EGRESS LIGHT AWAY FROM THE BUILDING.
4. SW2: MOUNT ON THE EXTERIOR WALL AT 8'-0" ABOVE FINISHED FLOOR.
5. SW3: MOUNT ON THE EXTERIOR WALL ABOVE THE BUILDING SIGN AT 13'-4" ABOVE FINISHED FLOOR.
6. SF1: FLUSH MOUNT IN THE GROUND TO HIGHLIGHT THE FLAG.

SITE LIGHTING FIXTURE SCHEDULE

TYPE MARK	MANUFACTURER	MODEL	LAMP	DESCRIPTION
SD1	PRESCOLITE LIGHTING	LF4SL-4LFSL-20L-35K-8-B6	2400LM, 4000K, 26W, 80CRI, 120V, 0-10V LED DIMMING	RECESSED LED DOWN LIGHT, 0-10V DRIVER, SEMI-DIFFUSE CLEAR ALZAK TRIM, SEMI-DIFFUSE REF. FINISH
SF1	LUMASCAPE INC.	LS853LED-20W-W4-G-N-82-NM-29-Q-01-09 / LS6012 / LS6052-K	1719LM, 3000K, 20W,	INGRADE LED UPLIGHT, CROSS HATCH LOUVER, BRUSHED STAINLESS STEEL COVER,
SP1	BEACON LIGHTING	VSP-36L-65-4K7-4W-UNV-A-DBT	8864LM, 4000K, 70CRI, 65W, 500mA, LED DIMMING DRIVER, 120V	VIPER SMALL POLE MOUNTED LIGHT, 16' POLE HEIGHT, DARK BRONZE MATTE FINISH, TYPE 4 FORWARD THROW.
SW1	HUBBLEE OUTDOOR LIGHTING	SG1-10-4K7-FT-UNV-DBT-CS SG1-YOKE	1424LM, 4000K, 11W,70CRI, 120V	LED EXTERIOR WALL MOUNTED FIXTURE, MOUNT ON YOKE, DARK BRONZE TEXTURED FINISH
SW2	WAC LIGHTING	WS-W15912-BK	331 DELIVERED LM, 3000K, 10W, ELV DIMMING, 90CRI, 120V	ARCHETYPE OUTDOOR WALL SCONCE, BRONZE FINISH, ALUMINUM HARDWARE WITH ETCHED GLASS DIFFUSER
SW3	ELLIPTIPAR LIGHTING	S175-R06L-HFC12-06-M-00-0-840-ZX	4588LM, 4000K, 43W, 80CRI, 0-10V LED DIMMING	SMALL OUTDOOR LED UPLIGHT, 12"LONG CANTILEVER ARM, DARK BRONZZE FINISH, 0-10V LED DIMMING DRIVER.

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LIGHTING- ELECTRICAL - SITE PLAN

FOR CONSTRUCTION

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