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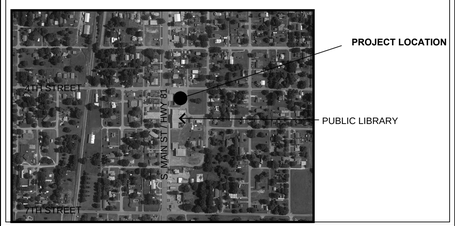

KEY PLAN

ALTERNATES

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

PROJECT PROFESSIONAL COMPANIES

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STATE OF OKLAHOMA
GANG
4780
LICENSED ARCHITECT

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: COVER SHEET
SHEET NO.: G-001

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

Hennessey Oklahoma

LIST OF ABBREVIATIONS

AB	ANCHOR BOLT
ACOUS	ACOUSTICAL
ACM	ALUMINUM COMPOSITE MATERIAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD'L	ADDITIONAL
ADJ	ADJUSTABLE
ADMIN	ADMINISTRATION
AEWC	ACCESSIBLE EWC
AFF	ABOVE FINISHED FLOOR
ALUM/AL	ALUMINUM
ALT	ALTERNATE
ANCIL	ANCILLARY
ANOD/AN	ANODIZED
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
AWI	ARCH'TL WOODWORK INSTITUTE
AWV	AIR WATER VAPOR BARRIER
BD	BOARD
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BM	BEAM
B.O.	BOTTOM OF
BRG	BEARING
BRK	BRICK
B.S	BOTH SIDES
CAB	CABINETS
CF/CI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFMF	COLD FORMED METAL FRAMING
CL	CENTERLINE
CLR	CLEAR
CJ	CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
COMP	COMPOSITE, COMPOSITION
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COR	COLOR
CORR	CORRIDOR
CPT	CARPET
CR	COLD ROLLED
CRS	COURSE
CT	CERAMIC TILE
CTR	CENTER
CTSK	COUNTERSINK
CU.FT	CUBIC FOOT
CU.YD	CUBIC YARD
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLISH/DEMOLITION
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DET	DETAIL
DIA	DIAMETER
DIM/DIM'S	DIMENSION(S)
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWR	DRAWER
DWG/DWG'S	DRAWING/DRAWINGS
E	EAST
EA	EACH
E.I.F.S. or EFIS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL or ELEV	ELEVATION
ELEC	ELECTRICAL
ELEVR	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATERCOOLER
EXIST/EXG	EXISTING
EXP	EXPANSION
EXPO	EXPOSED
EXT	EXTERIOR
FA	FIRE ALARM
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FIN	FINISH
FLEX	FLEXIBLE
FLR	FLOOR
FLASH or FLG	FLASHING
FR	FIRE RATED
FRM	FRAME
FRT	FIRE RETARDANT TREATED
FT	FOOT or FEET
FTG	FOOTING
FURN	FURNISHED
FURR'G	FURRING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GEN	GENERAL
GI	GALVANIZED IRON
G.L.	GLOSS LEVEL
GLAZ	GLAZING
GND	ELECTRICAL GROUND
GR	GRADE
GWB or GYP BD.	GYPSUM BOARD
GYP	GYPSUM
HC	HOLLOW CORE or HANDICAP ACCESSIBLE
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HW	HOT WATER HEATER
I.D.	INSIDE DIAMETER
IN	INCHES
INSUL/INS	INSULATION, INSULATED
INT	INTERIOR
JAN	JANITOR
JST	JOIST
JT	JOINT
KIT	KITCHEN
K.D.	KNOCKDOWN
LAB	LABORATORY
LAM	LAMINATED
LAV	LAVATORY
LED	LIGHT-EMITTING DIODE
LF	LIGHT FIXTURE
LT	LIGHT
MACH	MACHINE
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDICINE
MEMB	MEMBRANE
MFR	MANUFACTURER
MGR	MANAGER
M.H.	MANHOLE
MIC. OV	MICROWAVE OVEN
MIN	MINIMUM
MIR or M	MIRROR
MISC	MISCELLANEOUS
M.O.	MASONRY OPENING
MR	MOP RACK
M.R.G.B	MOISTURE RESISTANT GYPSUM BOARD
MS	MOP SINK
MTD	MOUNTED
MTL	METAL
MW	BUILT-IN MILLWORK
N	NORTH
N.I.C	NOT IN CONTRACT
NO.(#)	NUMBER
NOM.	NOMINAL
N.T.S	NOT TO SCALE
O.A	OVERALL
OC/oc	ON CENTER
O.C.E.W	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED/CONTR. INSTALLED
OFF	OFFICE
OF/OI	OWNER FURNISHED/OWNER INSTALLED
O.H	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.T.O	OUTSIDE TO OUTSIDE
PC	PORTLAND CEMENT
PH	PHONE (TELEPHONE)
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PPT	PRESERVATIVE PRESSURE TREATED
PR	PAIR
PREP	PREPARATION
PT	PAINT
P.T.D	PAPER TOWEL DISPENSER
PTN	PARTITION
P.T.D/R	COMBINATION PAPER TOWEL DISPENSER/RECEPTACLE
Q.T	QUARRY TILE
R or RAD	RADIUS
RCP	REFLECTED CEILING PLAN
R.D.	ROOF DRAIN
RE: or REF	REFERENCE
REC'P	RECEPTION
REFR	REFRIDGERATOR
REINF	REINFORCED
RESIL	RESILIENT
RESIST	RESISTANT
REQ or REQ'D	REQUIRED
RET	RETAINING
REV	REVISION
R.F.S	ROOM FINISH SCHEDULE
R.J.	RUSTICATION JOINT
RM	ROOM
RO	ROUGH OPENING
R&S	ROD AND SHELF
RTU	ROOF TOP UNIT (HVAC)
RWC	RAIN WATER CONDUCTOR
S	SOUTH
S.B.	SMART BOARD
SCHED/SCH	SCHEDULE
SCWD	SOLID CORE WOOD DOOR
SD	SOAP DISPENSER
SECT	SECTION
SEC'Y	SECRETARY
SH	SHELF
SHWR	SHOWER
SHT	SHEET
SHTH'G	SHEATHING
SIM	SIMILAR
S.N.D	SANITARY NAPKIN DISPENSER
S.N.R	SANITARY NAPKIN RECEPTACLE
SQ	SQUARE
SS	SANITARY SEWER
S.S.	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
STN	STAIN
STOR	STORAGE
STR or STRUCT	STRUCTURAL
SUSP	SUSPEND(ED)
S&V	STAIN & VARNISH
SYM	SYMMETRICAL
T	TOILET
T.B.	TACK BOARD
T.C.	TOP OF CURB
TEMP	TEMPERED/ TEMPORARY
TER	TERRAZZO
TG	TOP OF GRATE
T&G	TOUNGE AND GROOVE
THK	THICK(NESS)
TLWC	TOP OF LIGHTWEIGHT CONCRETE
T.O.	TOP OF
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF STEEL
T.O.W/T.W.	TOP OF WALL
T.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
U.N.O	UNLESS OTHERWISE NOTED
UR	URINAL
VERT	VERTICAL
VEST	VESTIBULE
VCT	VINYL COMPOSITION TILE
VIF or V.I.F.	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W	WEST
W.B.	WHITE MARKER BOARD
W/	WITH
W.C.	WATER CLOSET
WD	WOOD
W/O	WITHOUT
WSCT	WAINSCOT
WT	WEIGHT

MATERIALS LEGEND

- EARTH
- BRICK
- CMU
- CONCRETE
- STEEL
- ALUMINUM
- SHEET METAL
- HARDWOOD
- DIMENSIONAL LUMBER CONTINUOUS
- DIMENSIONAL LUMBER NON-CONTINUOUS
- GYP. BD.
- RIGID INSULATION
- BATT INSULATION
- PLYWOOD SHEATHING
- GROUT, MORTAR OR SAND
- E.I.F.S.
- PLASTER ON METAL LATH
- GRAVEL
- CEILING TILE OR CERAMIC TILE
- GLASS

SYMBOLS LEGEND

THE FOLLOWING SYMBOLS APPLY TO ALL ARCHITECTURAL SHEETS BUT NOT TO OTHER DISCIPLINES DRAWING SHEETS.

- WALL SECTION — SECTION NUMBER / DRAWING NUMBER
- BUILDING SECTION — SECTION NUMBER / DRAWING NUMBER
- COLUMN GRID LINE / DIMENSION GRID LINE — COLUMN NUMBER AND LETTER DESIGNATION / COLUMN GRID
- ROOM REFERENCE — MAIN ENTRY 101 — ROOM NAME / ROOM NUMBER USED FOR CONSTR
- PARTITION TYPE — 4A 4A — REFERENCE WALL TYPE DRAWING
- DOOR NUMBER — 101 — REFERENCE DOOR SCHEDULE
- DETAIL REFERENCE — DETAIL NUMBER / DRAWING NUMBER
- REFERENCE OR DATUM — 1ST. LEVEL F.F. ELEV.
- BUILDING ELEVATION REFERENCE — DETAIL NUMBER / DRAWING NUMBER
- CENTER LINE
- NORTH REFERENCE ARROW POINTS NORTH BUILDING NORTH IS SET WHEN BLDG IS ANGLED — NORTH
- REVISION REFERENCE — 1
- REFERENCE TO DIMENSION POINT — 4'-6" — FACE TO FACE OF STUD / FACE TO FACE OF MASS / ℄ COLUMN TO FACE OF MASS OR STUD — OR ℄ COLUMN TO ℄ COLUMN
- WINDOW TYPE/ FRAME TYPE — A AA
- INTERIOR ELEV MARKER — A-A000 — A-A000 — ARROW POINTS TO ELEVATION DRAWN / DRAWING NUMBER / DETAIL LETTER
- PHOTOGRAPH MARKER — PHOTOGRAPH NUMBER / DRAWING NUMBER
- BREAK LINE

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08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: GENERAL INFORMATION
SHEET NO.: G-002

8/8/2022 2:11:28 PM

BUILDING CODE INFORMATION

LIFE SAFETY AND FIRE PROTECTION CODE COMPLIANCE NARATIVE

GENERAL PROJECT INFORMATION

PROJECT NAME	HENNESSEY FIRE DEPARTMENT - REMODEL & ADDITION
PROJECT LOCATION	501 S. MAIN STREET, HENNESSEY, OKLAHOMA
PROJECT CONSTRUCTION PURPOSE	EXISTING CONSTRUCTION WITH ADDITION
BUILDING OWNER	BUSINESS
ESTIMATED PROJECT COST	$ 0
AUTHORITY HAVING JURISDICTION	STATE FIRE MARSHALL

PROJECT DESCRIPTION - SUMMARY

DEMOLISH PORTION OF EXISTING BUILDING. ADD NEW ADDITION.

ALTERNATES

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

APPLICABLE DESIGN CRITERIA

	NAME	EDITION
STATE CODE ADOPTION		
X	INTERNATIONAL BUILDING CODE (IBC)	2018
X	INTERNATIONAL FIRE CODE (IFC)	2018
X	INTERNATIONAL FUEL GAS CODE (IFGC)	2018
X	INTERNATIONAL MECHANICAL CODE (IMC)	2018
X	INTERNATIONAL PLUMBING CODE (IPC)	2018
X	NATIONAL ELECTRIC CODE (NEC)	2017
X	INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	2006
ADDITIONAL CODES		
X	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	2010

BUILDING OCCUPANCY, CONSTRUCTION AND SEPARATION INFORMATION

USE AND OCCUPANCY CLASSIFICATION (IBC CHAPTER 3)

BUILDING NAME	IBC CLASSIFICATION	AREA (SQFT)		OCCUPANCY LOAD
HENNESSEY FIRE DEPARTMENT - REMODEL & ADDITION	GROUP B (SECTION 304)	MAIN LEVEL	10,188	127
		2ND LEVEL	1,955	14
			-	-
		TOTAL	12,143 **GROSS**	141

SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY (IBC CHAPTER 4)

SECTION 406	PRIVATE GARAGES AND CARPORTS, OPEN AND ENCLOSED PUBLIC PARKING GARAGES, MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES SHALL COMPLY WITH SECTIONS 40621.1 THROUGH 460.2.9.

GENERAL BUILDING HEIGHTS AND AREA (IBC CHAPTER 5)

OCCUPANCY CLASSIFICATION	CONSTRUCTION TYPE: TYPE II B			
			ALLOWABLE	AS-DESIGNED
BUSINESS B	**HEIGHT (FEET), TABLE 504.3**		55'-0"	28'-3"
	STORIES, TABLE 504.4		4	2
	AREA (SQFT), SECTION 506.2.3			
		TOTAL GROSS	12,143	12,143

BUILDING ALLOWABLE AREA (IBC, SECTION 506.2.1)

THE BUILDING ALLOWABLE AREA: $A_a = A_t + (NS \times I_f)$

TYPES OF CONSTRUCTION (IBC CH. 6) - TYPE IIB

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (IBC, TABLE 601)

BUILDING ELEMENT	HOURLY RATING REQUIRED	HOURLY RATING PROVIDED	METHOD OF ACHIEVING RATING
PRIMARY STRUCTURAL FRAME (SEE IBC SECTION 202)	0	0	N/A
EXTERIOR BEARING WALLS	0	0	N/A
INTERIOR BEARING WALLS	0	0	N/A
EXTERIOR NONBEARING WALLS	0	0	N/A
INTERIOR NONBEARING WALLS	0	0	N/A
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0	0	N/A
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0	0	N/A

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (IBC, TABLE 602)

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONST	OCCUPANCY	FIRE RESISTANCE REQ.	FIRE RESISTANCE PROVIDED
10 X ≥ 30	IIB	B	0	0

FIRE AND SMOKE PROTECTION FEATURES (IBC CH. 7)

MAXIUMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION (IBC, TABLE 705.8)

FIRE SEPARATION DISTANCE (feet)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA
15' TO LESS THAN 20'	UNPROTECTED, NON-SPRINKLERED	25%

FIRE WALL FIRE-RESISTANCE RATINGS (IBC, TABLE 706.4)

GROUP	FIRE RESISTANCE RATING (hours)	CONSTRUCTION NOTES
B	2	NO FIRE WALL SEPARATION NEEDED IN THIS PROJECT

FIRE-RESISTANCE RATING REQUIREMENTS FOR FIRE BARRIER ASSEMBLIES OR HORIZONTAL ASSEMBLIES BETWEEN FIRE AREAS (IBC, TABLE 707.3.10, SECTION 1023)

GROUP	FIRE RESISTANCE RATING (hours)	CONTRUCTION NOTES
B	2	NO FIRE BARRIER REQUIRED FOR THIS PROJECT

SHAFT ENCLOSURES (IBC, SECTION 713, SECTION 3002)

STORIES	FIRE RESISTANCE RATING (hours)	CONTRUCTION NOTES
2	1	NO SHAFT ENCLOSURES IN THIS PROJECT

OCCUPANCY LOAD, MEANS OF EGRESS AND PASSIVE FIRE PROTECTION

INTERIOR FINISHES (IBC CHAPTER 8)

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (IBC, TABLE 803.13)

	SPRINKLERED		
GROUP	EXITS	CORRIDORS	ROOMS
BUSINESS B	CLASS B	CLASS C	CLASS C

FIRE PROTECTION SYSTEMS (IBC CHAPTER 9)

AUTOMATIC SPRINKLER SYSTEMS (IBC, SECTION 903)

STATUS	AUTOMATIC SPRINKLER SYSTEM IS NOT PROVIDED.

PORTABLE FIRE EXTINGUISHERS (IBC, SECTION 906)

FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS (IBC, TABLE 906.3(1))

	ORDINARY HAZARD OCCUPANCY	AS REQUIRED	PROVIDED
MIN. RATED SINGLE EXTINGUISHER	2-A	2	8
MAXIMUM FLOOR AREA PER UNIT OF A	1,500 SQ. FT.		
MAXIMUM FLOOR AREA FOR EXTINGUISHER	11,250 SQ. FT.		
MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER	75 FEET		

FIRE ALARM AND DETECTION SYSTEMS (IBC, SECTION 907.2)

		GROUP B	
FIRE ALARM SYSTEM	907.2.2	MANUAL	REQUIRED
SMOKE DETECTION SYSTEM	907.2.12.1	AUTOMATIC	NOT REQUIRED
OCCUPANCY NOTIFICATION SYSTEM	907.5	AUTOMATIC	NOT REQUIRED

EGRESS WIDTH (IBC, SECTION 1005)

MINIMUM REQUIRED EGRESS WIDTH SHALL BE A TOTAL WIDTH OF MEANS OF EGRESS IN INCHES NOT LESS THAN THE TOTAL OCCUPANCT LOAD SERVED BY THE MEANS OF EGRESS MULTIPLIED BY 0.20 INCHES PER OCCUPANT.

OCCUPANCY OF 136 x 0.20 = 27.2" MINIMUM EGRESS WIDTH

PER IBC TABLE 1020.2: MINIMUM CORRIDOR WIDTH 36"

MEANS OF EGRESS ILLUMINATION (IBC, SECTION 1008)

EMERGENCY LIGHTING	AUTOMATIC	REQUIRED

THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.

EXIT SIGNS (IBC, SECTION 1013)

EXIT SIGNS	AUTOMATIC	REQUIRED

EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL.

EXIT ACCESS TRAVEL DISTANCE IN FEET (IBC, TABLE 1006.2.1, TABLE 1017.2, SECTION 1020.4)

	GROUP B			
	ALLOWED	AS DESIGNED	ALLOWED	AS DESIGNED
COMMON PATH OF TRAVEL	75	30' MAX		
DEAD END CORRIDORS	20	NA		
TRAVEL TO EXIT	200	142' MAX		

ACCESSIBILITY FEATURES

ACCESSIBILITY (IBC CHAPTER 11)

ACCESSIBLE PARKING SPACES (IBC, TABLE 1106.1)

PARKING REQUIREMENTS	ACCESSIBILE REQUIRED	ACCESSIBILE PROVIDED
N/A	N/A	N/A

PLUMBING SYSTEMS FEATURES

PLUMBING SYSTEMS (IBC CHAPTER 29)

CLASSIFICATION	BUSINESS			
OCCUPANCY LOAD	136			
			REQUIRED	**PROVIDED**
WATER CLOSETS /URINALS	**MALE**	FIRST 50: 1/25 EXCEEDING 50: 1/50	3	4
	FEMALE			
LAVATORIES	**MALE**	1 PER 40	4	4
	FEMALE			
BATHTUBS OR SHOWER			-	1
DRINKING FOUNTAINS	1 PER 100		2	2
OTHER	1 SERVICE SINK		1	1

OWNER TO PROVIDE WATER SUPPLY STATIONS. ONE AT FIRST FLOOR. ONE ON SECOND FLOOR WHEN SECOND FLOOR IS IN USE.

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08/08/2022

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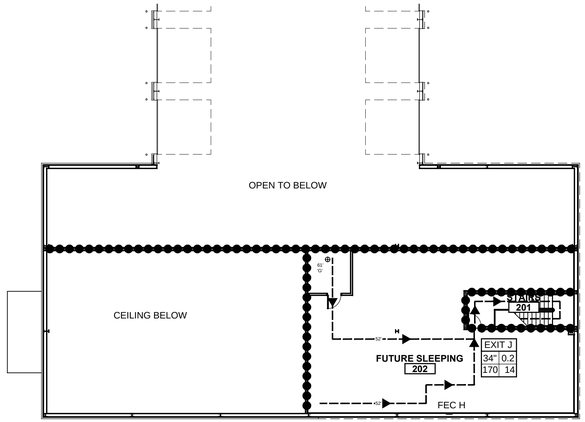
REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: FMR
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

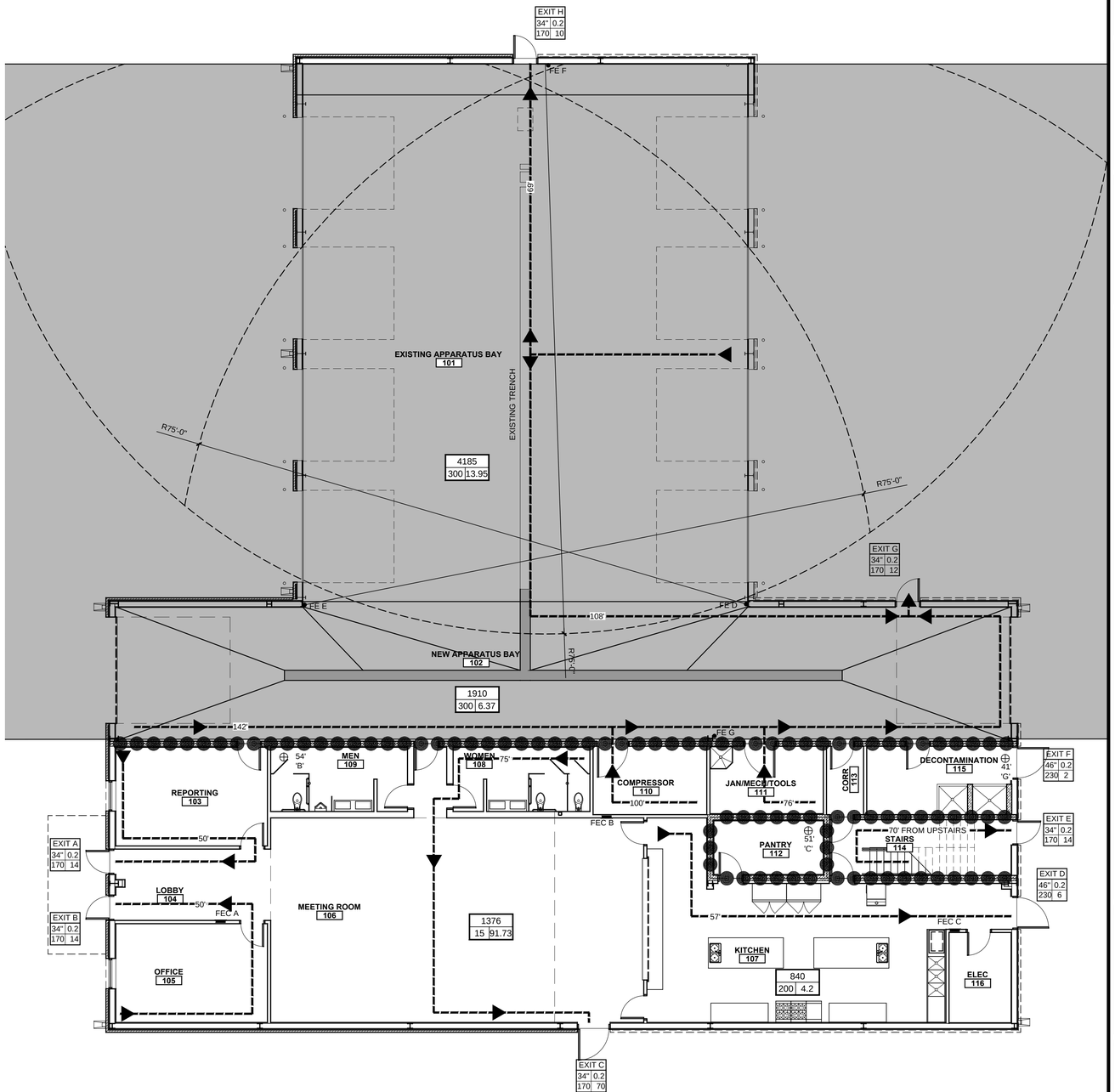
SHEET TITLE: LIFE SAFETY CODE ANALYSIS
SHEET NO.: G-100



02 2ND LEVEL FLOOR PLAN

SCALE: 1/16"=1'-0"

NORTH



01 MAIN LEVEL FLOOR PLAN

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

NORTH

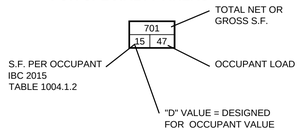
MEANS OF EGRESS (IBC CHAPTER 10)

OCCUPANT LOAD CALCULATIONS (IBC TABLE 1004.1.1)

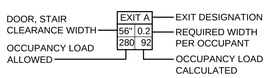
OCCUPANCY SCHEDULE

ROOM NUMBER	ROOM NAME	OCCUPANCY	OCCUPANCY AREAS		TABLE 1004.5- MAXIMUM FLOOR ALLOWANCES	
			NET	GROSS	S.F. PER PERSON	OCCU. LOAD
101	EXST. APP. BAY	S-2	0	4185	300	13.95
102	NEW APP. BAY	S-2	0	1910	300	6.37
103	REPORTING	B	0	261	150	1.74
104	LOBBY	B	0	198		
105	OFFICE	B	0	262	150	1.75
106	MEETING ROOM	A-2	0	1376	15	91.73
107	KITCHEN	A-2	0	840	200	4.20
108	WOMEN	B	0	158		
109	MEN	B	0	156		
110	COMPRESSOR	B	0	133	150	0.89
111	JAN/MECH/TOOLS	S-1	0	160	300	0.53
112	PANTRY	S-2	0	92	300	0.31
113	CORRIDOR	B	0	43		
114	STAIRS	B	0	157		
115	DECONTAMINATION	B	0	179	150	1.19
116	ELECTRICAL	B	0	98	150	0.65
201	FUTURE SLEEPING	B	0	1955	150	13.03
TOTAL OCCUPANCY LOAD						136

OCCUPANCY LEGEND KEY FOR SPECIALTY AREAS



EGRESS DOOR LEGEND KEY



PLAN LEGEND:

SYMBOL	DESCRIPTION
FEC	FIRE EXTINGUISHER CABINET
FE	PORTABLE FIRE EXTINGUISHER W/WALL BRACKET
62' 'X'	DISTANCE TO NEAREST FIRE EXTINGUISHER (DIST) FEC 'X'
62'	EGRESS PATH AND TRAVEL DISTANCE
	1 HOUR RATED
	2 HOUR RATED FIRE WALL SEPARATION
	75' RADIUS OF FIRE EXTINGUISHER COVERAGE

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

3220 MARSHALL AVENUE
NORMAN, OK 73072
TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: MAIN LEVEL FLOOR PLAN

SHEET NO.: G-101

CP #2
3 BAR Y/CAP
N=402400.6360'
E=1998386.7770'
EL=1160.21'

CP #1
BASE STPLAN
N=402350.7300'
E=1998563.0330'
EL=1158.84'

E 4TH STREET

ASPHALT

MAIN STREET / US HWY 81

STREET SIGN

EXISTING SIDEWALK

WV FH

WM

FLAG POLE

Ex Asphalt Pavement

CONCRETE

EX FIRE STATION
FF 1060.04

FF 1160.04

DOOR

S89° 43' 08.07"E
140.000'

N0°16'52"E
300.00'

140.00'

25.00'

1 2 3 4 5 6

BLOCK 37

EX STEEL PIPE FENCE

EX BUILDING
FF 1160.00

BORE HOLE

TRAFFIC STRIPING

GAS VALVE

FAN

GENERATOR

A/C

GM

Existing Alley

EXISTING SIDEWALK

24 23 22 21 20 19

R7W

T 19 N

HENNESSEY FIRE DEPARTMENT

SCALE 1" = 2000'

LOCATION MAP

SCALE 1" = 10'

10 0 10 20 30

UTILITY STATEMENT

UNDERGROUND UTILITIES SHOWN ARE ONLY APPROXIMATE LOCATIONS. DEPICTION OF UTILITY LINES WERE DRAWN FROM EXISTING ABOVE GROUND OBJECTS SUCH AS FIRE HYDRANTS, TUG BOXES, POWER POLES, ETC. ALL LOCATIONS AND DEPTHS SHOULD BE VERIFIED BY AN 'OKIE' LOCATE AND/OR POT HOLE OF UNDERGROUND UTILITIES TO VERIFY DEPTH.

BEFORE YOU DIG 811 OKLAHOMA CALL OKIE

LEGEND

TUG BOX	TELEPHONE BOX	LP	LIGHT POLE
WM	WATER METER	PP	POWER POLE
WV	WATER VALVE	T	TRANSFORMER
FH	FIRE HYDRANT		TREE
MH	SANITARY MANHOLE		PROPERTY CORNER
T	TELEPHONE LINE	U/E	UNDERGROUND POWER LINE
FO	FIBER OPTIC LINE	OHP	OVERHEAD POWER LINE
G	GAS LINE	x x	FENCE
W	WATER LINE		PROPERTY LINE
SS	SANITARY SEWER LINE		
	STORM SEWER		

TOPOGRAPHIC SURVEY CERTIFICATION

I, J. Steven Fox, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision; that this ground survey was performed at the 95% confidence level to meet Federal Geographic Data Committee Standards; that this survey was performed to meet the requirements for a topographic/planimetric survey meets the Oklahoma Minimum Technical Standards for the practice of land surveying as adopted by the Oklahoma State Board of licensure for Pressional Engineers and Land Surveyors.
The original data was obtained on May 05, 2021, and the survey was completed on July 01, 2021; that contours shown as broken lines meet the stated standard; and all coordinates are based on Oklahoma State Plain 'NAD83' and all elevations are based on NAVD 27.

Certificate of Authorization #5133
C of A Expires June 30, 2024

James Steven Fox, P.L.S. No. 1165, Oklahoma

STEVEN FOX 1165 REGISTERED LAND SURVEYOR STATE OF OKLAHOMA

J. STEVEN FOX 12297 REGISTERED PROFESSIONAL ENGINEER STATE OF OKLAHOMA

8 - AUG - 2022

FOX ENGINEERING CIVIL ENGINEERS
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CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2024

ARCHITECTS IN PARTNERSHIP
ARCHITECTS
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SEAL:

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

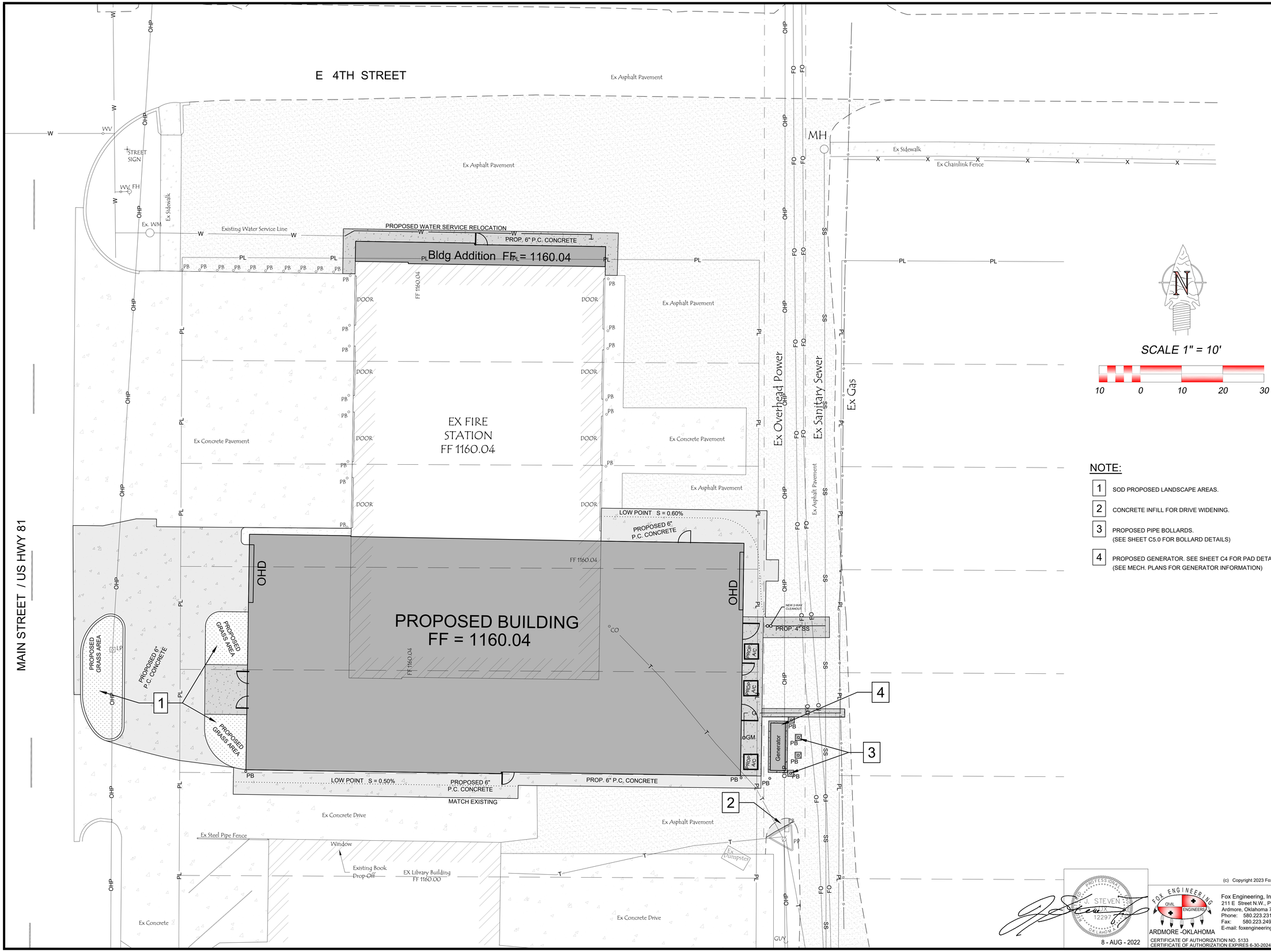
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY:
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: TOPOGRAPHY

SHEET NO.: C0



SCALE 1" = 10'

10 0 10 20 30

NOTE:

1. SOD PROPOSED LANDSCAPE AREAS.
2. CONCRETE INFILL FOR DRIVE WIDENING.
3. PROPOSED PIPE BOLLARDS. (SEE SHEET C5.0 FOR BOLLARD DETAILS)
4. PROPOSED GENERATOR. SEE SHEET C4 FOR PAD DETAILS. (SEE MECH. PLANS FOR GENERATOR INFORMATION)

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HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER:	GL
DRAWN BY:	
CHECKED BY:	GL
DATE:	08/08/2022
PROJECT NO.:	2111

SHEET TITLE: SITE PLAN

SHEET NO.: C1

OKLAHOMA PROFESSIONAL ENGINEER CHRISTOPHER L. STEVENS 12297 8 - AUG - 2022

FOX ENGINEERING CIVIL ENGINEERS
ARDMORE -OKLAHOMA
CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2024

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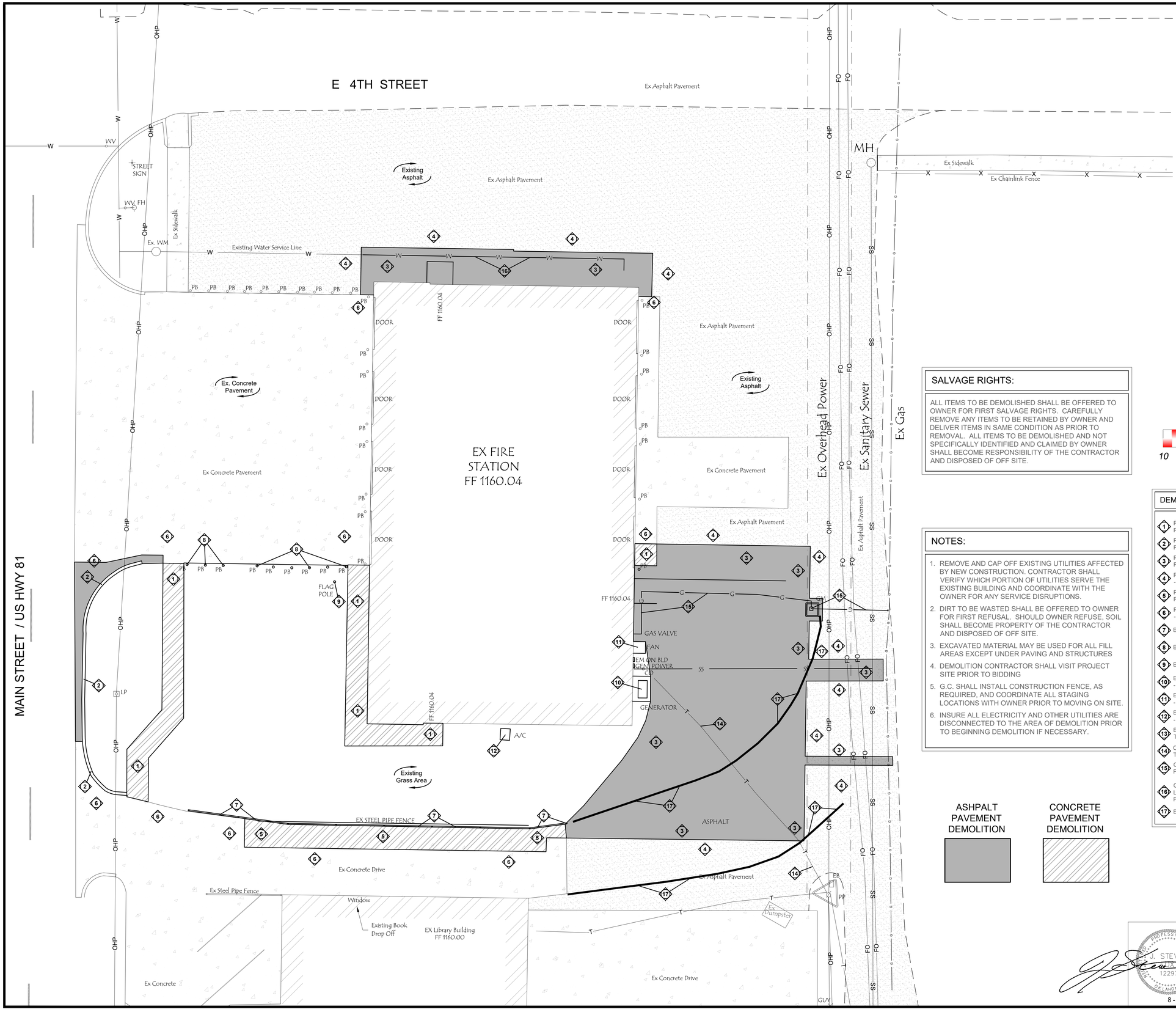

SALVAGE RIGHTS:

ALL ITEMS TO BE DEMOLISHED SHALL BE OFFERED TO OWNER FOR FIRST SALVAGE RIGHTS. CAREFULLY REMOVE ANY ITEMS TO BE RETAINED BY OWNER AND DELIVER ITEMS IN SAME CONDITION AS PRIOR TO REMOVAL. ALL ITEMS TO BE DEMOLISHED AND NOT SPECIFICALLY IDENTIFIED AND CLAIMED BY OWNER SHALL BECOME RESPONSIBILITY OF THE CONTRACTOR AND DISPOSED OF OFF SITE.

NOTES:

1. REMOVE AND CAP OFF EXISTING UTILITIES AFFECTED BY NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY WHICH PORTION OF UTILITIES SERVE THE EXISTING BUILDING AND COORDINATE WITH THE OWNER FOR ANY SERVICE DISRUPTIONS.
2. DIRT TO BE WASTED SHALL BE OFFERED TO OWNER FOR FIRST REFUSAL. SHOULD OWNER REFUSE, SOIL SHALL BECOME PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF SITE.
3. EXCAVATED MATERIAL MAY BE USED FOR ALL FILL AREAS EXCEPT UNDER PAVING AND STRUCTURES
4. DEMOLITION CONTRACTOR SHALL VISIT PROJECT SITE PRIOR TO BIDDING
5. G.C. SHALL INSTALL CONSTRUCTION FENCE, AS REQUIRED, AND COORDINATE ALL STAGING LOCATIONS WITH OWNER PRIOR TO MOVING ON SITE.
6. INSURE ALL ELECTRICITY AND OTHER UTILITIES ARE DISCONNECTED TO THE AREA OF DEMOLITION PRIOR TO BEGINNING DEMOLITION IF NECESSARY.

ASHPALT PAVEMENT DEMOLITION

CONCRETE PAVEMENT DEMOLITION

SCALE 1" = 10'

10 0 10 20 30

DEMOLITION NOTES:

1. PORTION OF EXISTING CONCRETE SIDE WALK TO BE REMOVED AS SHOWN BY HATCHED AREAS.
2. PORTION OF EXISTING CONCRETE CURB TO BE REMOVED AS SHOWN BY HATCHED AREAS.
3. PORTION OF EXISTING ASPHALT PAVEMENT TO BE REMOVED AS SHOWN BY HATCHED AREAS.
4. PORTION OF EXISTING ASPHALT PAVEMENT TO REMAIN. - PROTECT DURING ALL DEMO OPERATIONS.
5. PORTION OF EXISTING CONCRETE PAVEMENT TO BE REMOVED AS SHOWN BY HATCHED AREAS.
6. PORTION OF EXISTING CONCRETE PAVEMENT TO REMAIN. - PROTECT DURING ALL DEMO OPERATIONS.
7. EXISTING PIPE FENCE TO BE REMOVED.
8. EXISTING PIPE BOLLARDS TO BE REMOVED.
9. EXISTING FLAG POLE TO BE REMOVED/RELOCATED.
10. EXISTING GENERATOR TO BE REMOVED/RELOCATED. - SEE MECH PLANS FOR NEW LOCATION & DETAILS.
11. EXISTING EXHAUST FAN TO BE REMOVED/RELOCATED. - SEE MECH PLANS FOR NEW LOCATION & DETAILS.
12. EXISTING HVAC & PAD TO BE REMOVED/RELOCATED. - SEE MECH PLANS FOR NEW LOCATION & DETAILS.
13. EXISTING SANITARY SEWER SERVICE LINE TO BE REMOVED TO EXISTING N-S SANITARY SEWER AS SHOWN.
14. CONTRACTOR TO REMOVE & RELAY EXISTING TELEPHONE LINE TO SERVE NEW CONSTRUCTION.
15. CONTRACTOR TO COORDINATE W/ GAS SERVICE PROVIDER FOR GAS LINE REMOVAL & GAS METER RELOCATION.
16. CONTRACTOR SHALL REMOVE EXISTING WATER SERVICE LINE AS NECESSARY TO AVOID PROPOSED BUILDING FOOTINGS.
17. EXISTING STRIPING TO BE REMOVED.

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INTERIOR DESIGNERS
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SEAL:

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL

DRAWN BY:

CHECKED BY: GL

DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: DEMOLITION PLAN

SHEET NO.: C2

8 - AUG - 2022

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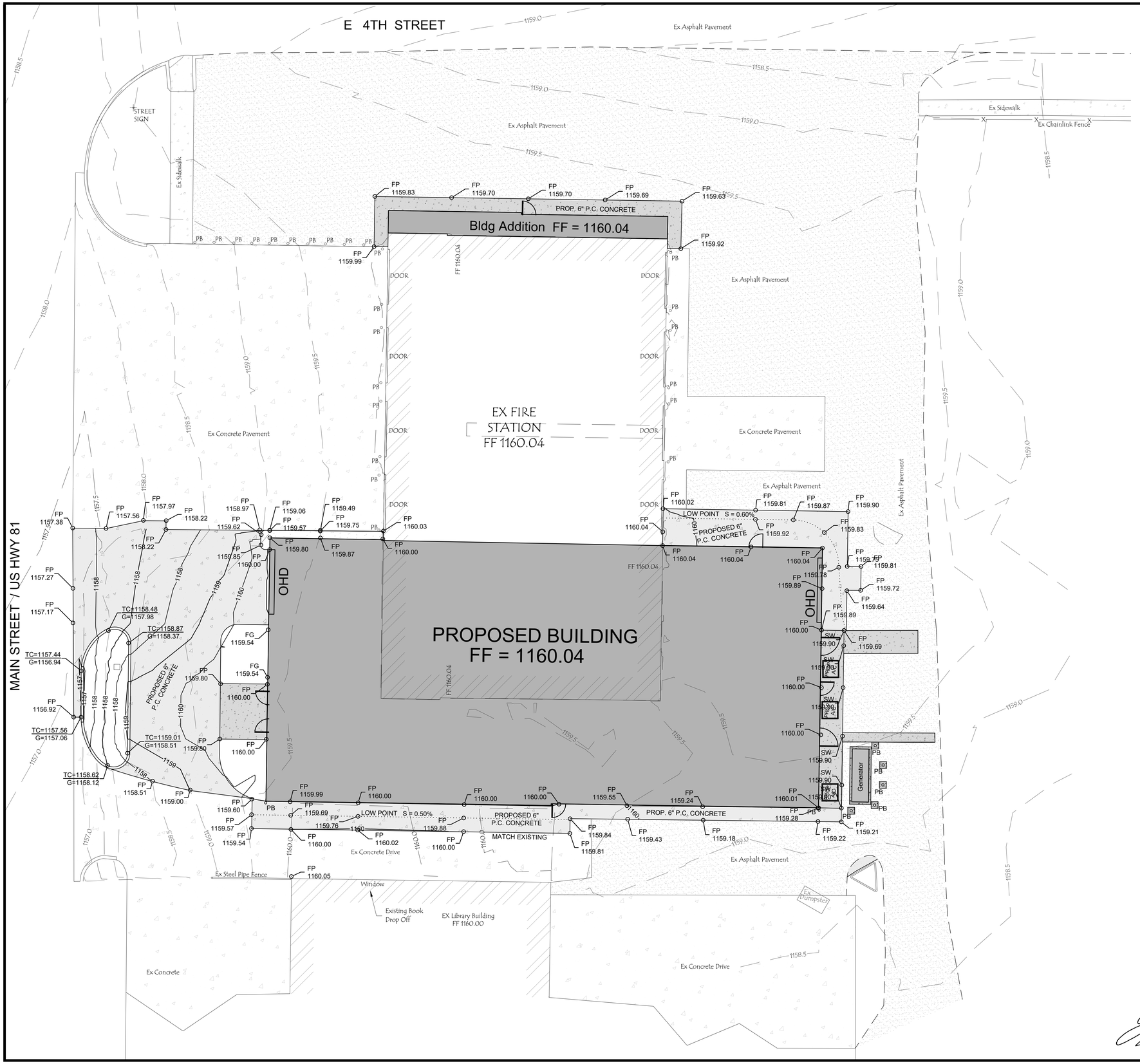
ARDMORE -OKLAHOMA
CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2024



SCALE 1" = 10'

10 0 10 20 30

ENGINEERS GRADING NOTES

1. CONTRACTOR SHALL REMOVE & STOCKPILE TOPSOIL ON-SITE AT A LOCATION SPECIFIED BY OWNER.
2. COMPACT SUBGRADE TO AT LEAST 95% PROCTOR DENSITY.
3. IN FILL AREAS, CONTRACTOR SHALL PLACE FILL IN 6" LIFTS, COMPACTING EACH TO 95% PROCTOR DENSITY.
4. DURING COMPACTION OF SUBGRADE TO 95% PROCTOR DENSITY, IF SOFT MATERIAL IS ENCOUNTERED AND REQUIRED COMPACTION CANNOT BE ACHIEVED, THIS AREA SHALL BE OVER-EXCAVATED AND REPLACED WITH OTHER SELECT MATERIAL.
5. GENERAL CONTRACTOR SHALL SOLID SLAB SOD ALL BARE SOIL DISTURBED AREAS WITH BERMUDA SOD. ENGINEER SHALL INSPECT SUBGRADE PRIOR TO SOD PLACEMENT.
6. ALL SIDEWALKS SHALL HAVE SLOPE AS SHOWN ON THE GRADING PLAN, NEVER TO EXCEED A MAXIMUM CROSS-SLOPE OF 2.0%.
7. CONTRACTOR IS RESPONSIBLE FOR EFFECTIVE DRAINAGE OF ENTIRE SITE.
8. CONTRACTOR IS RESPONSIBLE FOR ENSURING A.D.A. COMPLIANCE ON ALL SIDEWALKS.
9. GENERAL CONTRACTOR SHALL PLACE TOPSOIL.

LANDSCAPING NOTE:

FINISH GRADES INCLUDE LANDSCAPE SOD AND/ OR BEDDING MATERIALS, ETC. LANDSCAPER SHALL REMOVE MATERIAL AS NECESSARY TO ACHIEVE FINISH GRADE. LANDSCAPER SHALL MAINTAIN DRAINAGE AWAY FROM THE BUILDING AND PROVIDE OPENINGS IN EDGING TO ENSURE WATER DOES NOT BECOME TRAEx PPED AGAINST THE BUILDING.

EARTHWORK SHALL NOT BE PERFORMED UNTIL EROSION CONTROL HAS BEEN INSTALLED BY CONTRACTOR

UTILITY STATEMENT

UNDERGROUND UTILITIES SHOWN ARE ONLY AEx PPROXIMATE LOCATIONS. DEPICTION OF UTILITY LINES WERE DRAWN FROM EXISTING ABOVE GROUND OBJECTS SUCH AS FIRE HYDRANTS, TUG BOXES, POWER POLES, ETC. ALL LOCATIONS AND DEPTHS SHOULD BE VERIFIED BY AN 'OKIE' LOCATE AND/OR POT HOLE OF UNDERGROUND UTILITIES TO VERIFY DEPTH.

J. STEVEN LOVE 12297 REGISTERED PROFESSIONAL ENGINEER STATE OF OKLAHOMA

8 - AUG - 2022

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SEAL:

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

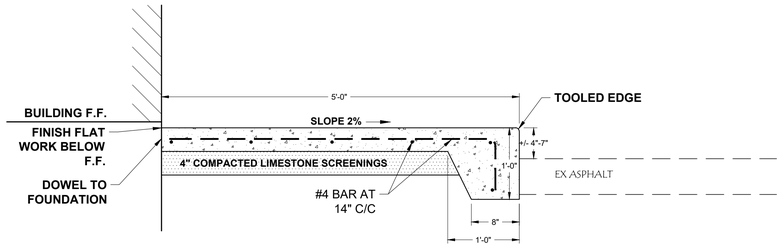
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY:
CHECKED BY: GL

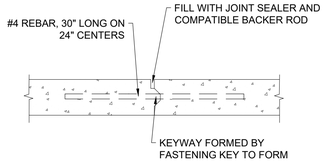
DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: GRADING PLAN

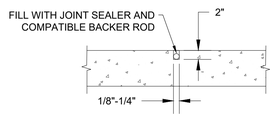
SHEET NO.: C3



TYPICAL SECTION
RAISED SIDEWALK
EAST SIDE OF BUILDING

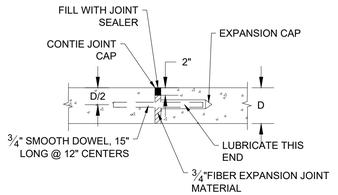


CONSTRUCTION JOINT



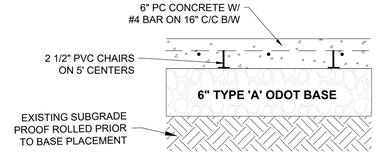
SAW IN CURB AT 15' CENTERS

CONTRACTION JOINT

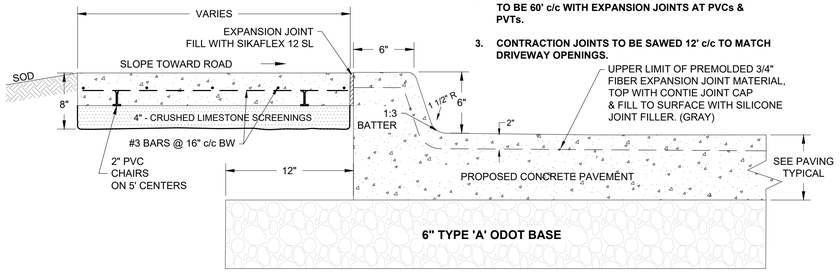


INSTALL IN CURB AT PT'S & PC'S OF ROADWAY
(DOWEL BARS IN SIDEWALK SHALL BE 1/2" Ø)
100' MAX. SPACING IN SIDEWALKS & CURBS

EXPANSION JOINT

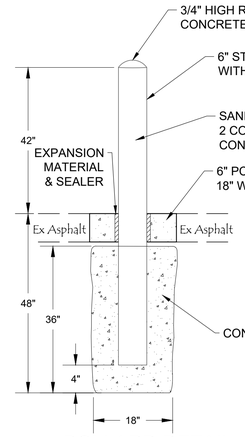


TYPICAL SECTION
CONCRETE PAVEMENT

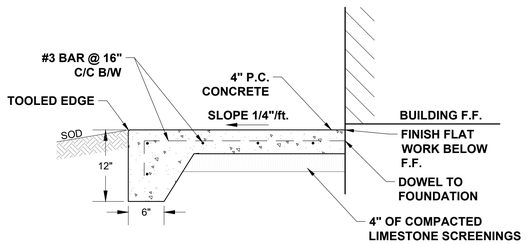


NOTE:
1. **USE 2 DOWEL BARS 3/4"x 24" ACROSS ALL EXPANSION JOINTS. COAT BARS WITH ASPHALT OR GREASE.**
2. **MAXIMUM SPACING OF 3/4" FIBER EXPANSION JOINTS TO BE 60' c/c WITH EXPANSION JOINTS AT PVCs & PVTs.**
3. **CONTRACTION JOINTS TO BE SAWED 12' c/c TO MATCH DRIVEWAY OPENINGS.**

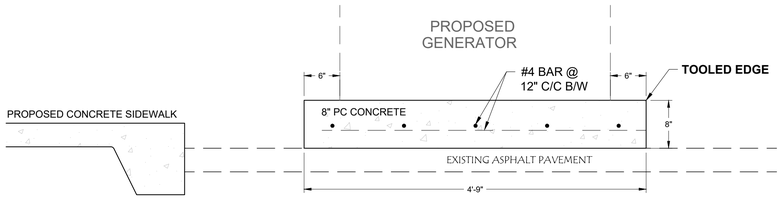
TYPICAL SECTION
INTEGRAL CURB



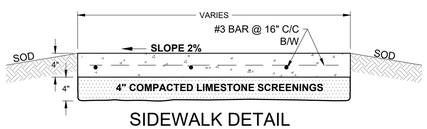
BOLLARD DETAIL



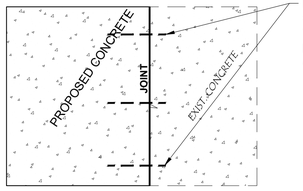
TYPICAL SECTION
EXTERIOR "FLATWORK"



SECTION A-A

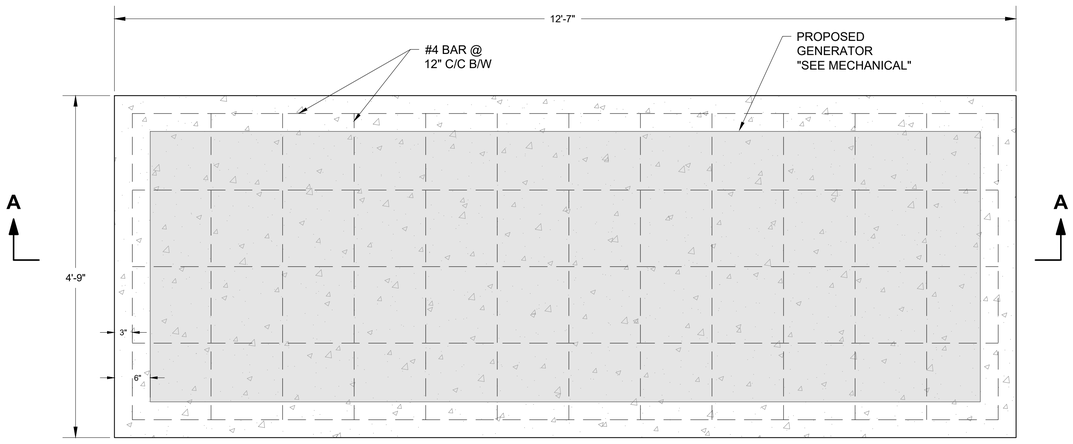


SIDEWALK DETAIL



HAMMER DRILL
#4 DOWEL BAR,18" LONG
W/ 6" EMBED ON 24" CENTERS
EPOXY WITH HILTI "HIT HY 150"
OR EQUAL.

CONCRETE CONNECTION
DETAIL



TYPICAL SECTION
GENERATOR PAD

NOTE:
CHAIRS REQUIRED FOR ALL REBAR.
MAX 5.0' SPACING FOR LARGER AREAS.

GENERAL NOTES

1. Excess excavation and all concrete and asphalt pavement to be removed from site shall be the property of and be disposed of by the contractor. Removal of existing pavement, concrete curb, headwalls, concrete ditch liner and other removal items called for on the plans shall not be paid for separately, but shall be included in the price bid for other items of work.
2. Concrete & asphalt shall be removed to a straight and even joint or shall be sawed on a line to provide straight, even connection. The cost shall be included in other items of work.
3. The contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area. The contractor shall be responsible for verifying the existence and location of underground utilities and obstructions, whether shown on the plans or not and shall be responsible for the protection thereof. Compliance with the warning and barricade sign specification will be required.
4. All concrete shall contain 6 sacks of cement per cu. yd. and shall obtain a minimum compressive strength of 4000 psi at 28 days.
5. During compaction of subgrade to 95% proctor density; if soft material is encountered; and required compaction cannot be achieved, this area shall be removed and replaced with other select material.
6. Silicone Sealant shall be gray and meet the requirements of current Federal specifications TT-S-001543 for Class A Sealants. The self-leveling silicone sealant (gun grade for curbs) shall be furnished in a one part silicone formulation. Acetic acid cure sealants are not acceptable.
7. All dowel bars shall be anchored with 'CONSPEC' SpecBond 101 or Equal.
8. 1-1/2" Crusher Run Gravel is equivalent to O.D.O.T. Type 'A' Agg. Base.
9. All sidewalks shall be constructed of 4" P.C. concrete with steel reinforcement having 4" limestone screenings for a base.
10. Incidental asphalt construction shall be 6" of Class 'B' surface mix paid by the SY.
11. Structures will be paid for at the lump sum bid for each structure which shall include all structural excavation, backfilling concrete, reinforcing steel, grates, frames and other incidental items called for on the plans and necessary for the completed structure.
12. The contractor shall protect all drainage structures from loads encountered during construction activities.
13. Concrete pavement around manhole covers and valve boxes shall be finished 1/4" below the adjacent asphalt pavement surface to allow for continued compaction of the asphalt base.
14. C.G.M. pipe and pipe arch shall be backfilled to a point 1 ft. above the pipe with crushed limestone screenings, except that backfill under pavement shall be limestone screenings to subgrade.
15. Shop drawings for reinforcing steel and castings are required.
16. Soil used to backfill behind curbs shall be a good sandy clay or top soil, for the top 4 inches.
17. The contractor shall deliver to the Inspector all delivery tickets indicating quantity or weight of asphalt and concrete when delivered to the job.
18. Call OKIE before digging - 1-800-522-6543.

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
501 S. MAIN STREET
HENNESSEY, OKLAHOMA

REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY:
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: PAVING DETAILS

SHEET NO.: C4

Fox Engineering, Inc.
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ARDMORE -OKLAHOMA
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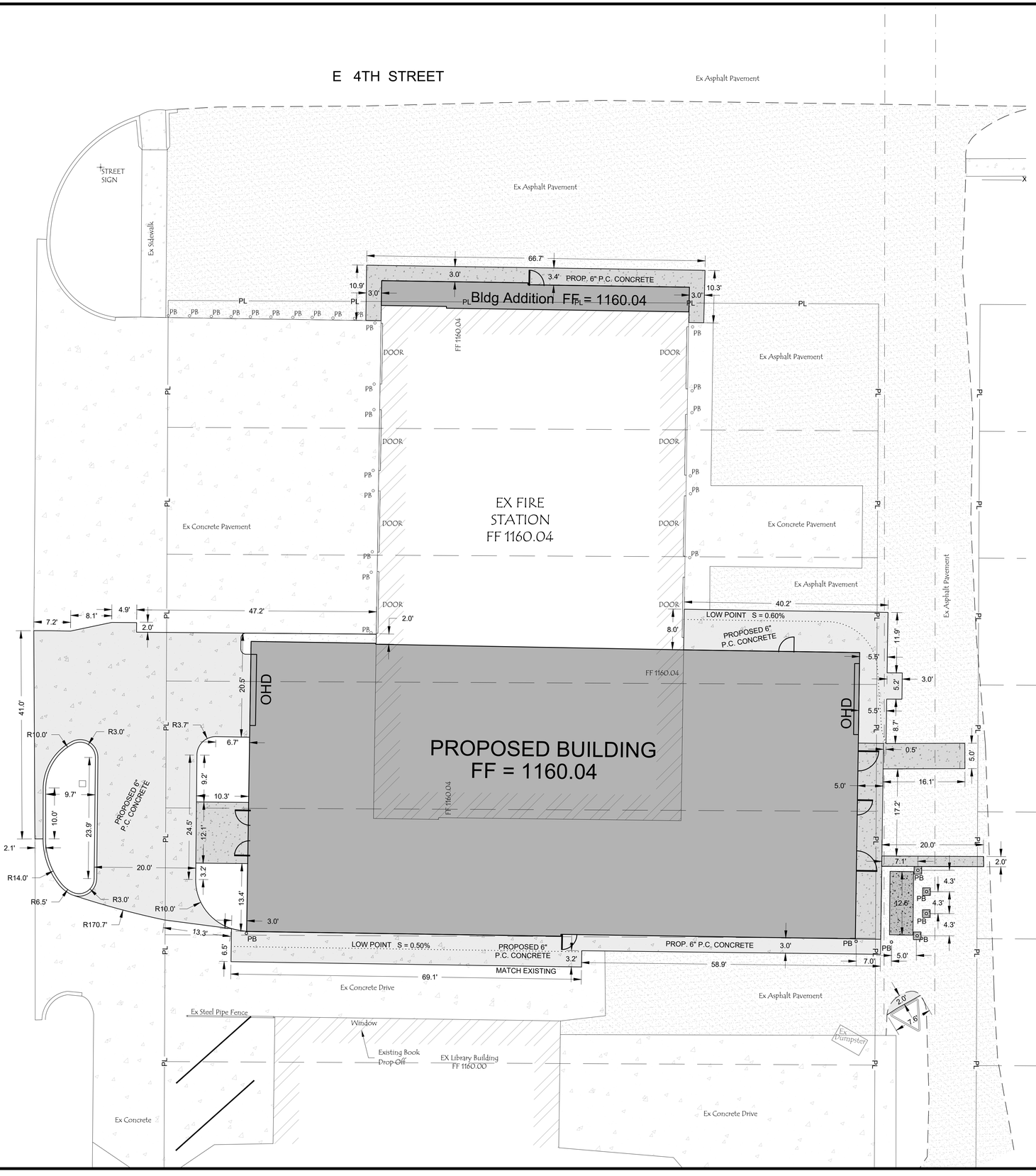
8 - AUG - 2022



GENERAL STRIPING NOTES

1. PAINT SHALL BE USED IN PARKING LOT
2. GLASS BEADS SHALL NOT BE REQUIRED IN PAINT.
3. ALL PARKING LANE STRIPING SHALL BE 4" WIDE. (WHITE PAINT)
4. CONTRACTOR SHALL BE REQUIRED TO MEET ALL AMERICAN DISABILITY ACT CODES AND SPECIFICATIONS IN REGARD TO STRIPING.

ENGINEERS NOTES

1. ALL DIMENSIONS SHOWN ARE FROM BACK OF CURB.
2. STRIPING SPACING SHALL MEET REQUIREMENTS OF THE TOWN OF HENNESSEY UNIFIED CODE.
3. PARKING LOT ENTRANCE AND EXIT SIGNS NOT SHOWN ON ENGINEERING PLANS. REFER TO ARCHITECT'S PLANS.
4. CONTRACTOR IS ADVISED TO HAVE BUILDING & PARKING LOT STAKED BY SURVEYOR OR ENGINEER.

SCALE 1" = 10'

10 0 10 20 30

OKLAHOMA REGISTERED PROFESSIONAL ENGINEER J. STEVEN FOX 12297 8 - AUG - 2022

FOX ENGINEERING CIVIL ENGINEERS
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211 E Street N.W., PO Box 666
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ARDMORE -OKLAHOMA
CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2024

ARCHITECTS IN PARTNERSHIP
ARCHITECTS
INTERIOR DESIGNERS
PLANNERS
3220 MARSHALL AVENUE
NORMAN, OK 73072
TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

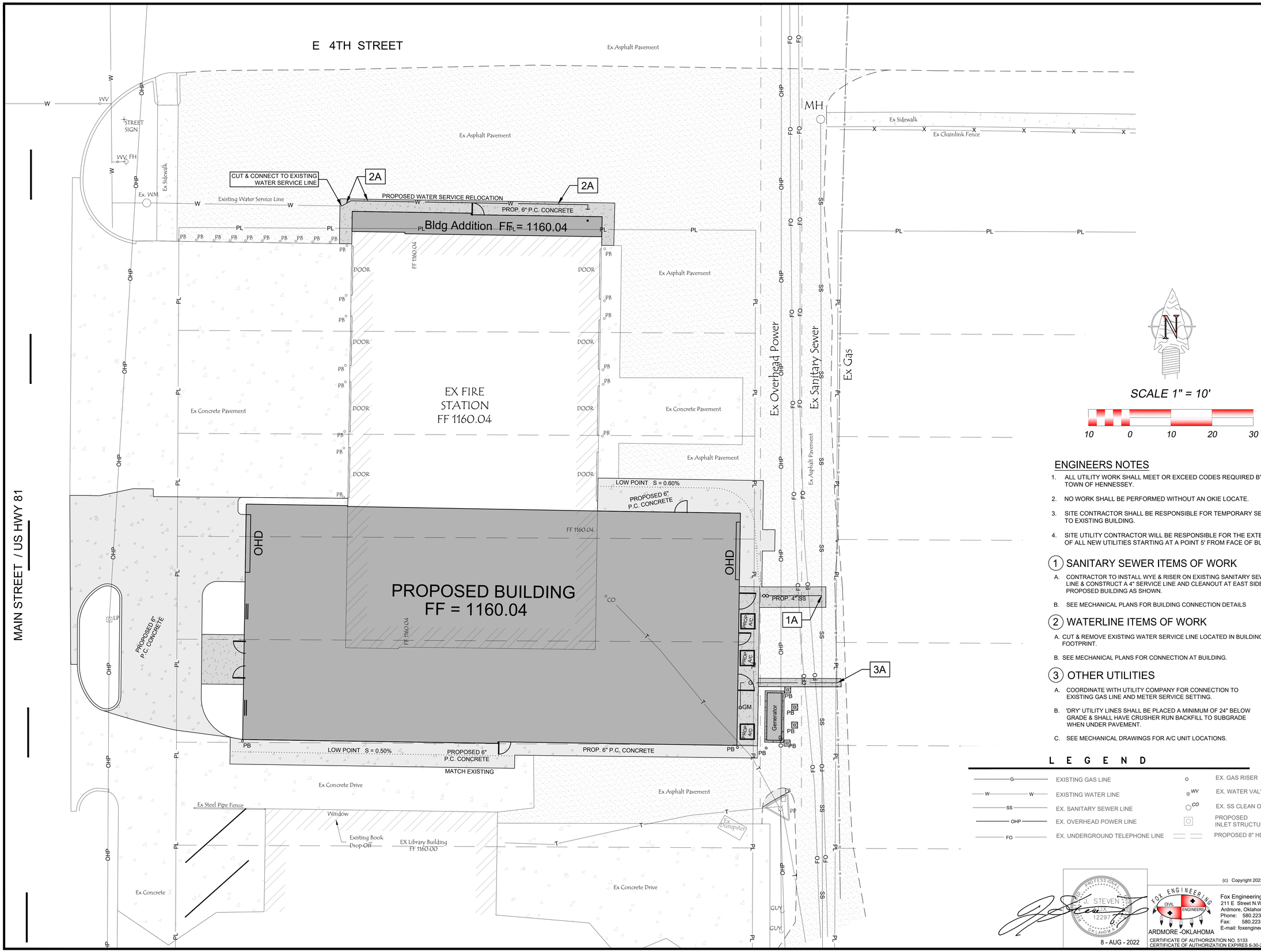
HENNESSEY, OKLAHOMA

REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER:	GL
DRAWN BY:	
CHECKED BY:	GL
DATE:	08/08/2022
PROJECT NO.:	2111

SHEET TITLE: DIMENSION PLAN

SHEET NO.: C5



SCALE 1" = 10'

10 0 10 20 30

ENGINEERS NOTES

1. ALL UTILITY WORK SHALL MEET OR EXCEED CODES REQUIRED BY THE TOWN OF HENNESSEY.
2. NO WORK SHALL BE PERFORMED WITHOUT AN OKIE LOCATE.
3. SITE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SERVICES TO EXISTING BUILDING.
4. SITE UTILITY CONTRACTOR WILL BE RESPONSIBLE FOR THE EXTENSION OF ALL NEW UTILITIES STARTING AT A POINT 5' FROM FACE OF BUILDING.

(1) SANITARY SEWER ITEMS OF WORK

A. CONTRACTOR TO INSTALL WYE & RISER ON EXISTING SANITARY SEWER LINE & CONSTRUCT A 4" SERVICE LINE AND CLEANOUT AT EAST SIDE OF PROPOSED BUILDING AS SHOWN.

B. SEE MECHANICAL PLANS FOR BUILDING CONNECTION DETAILS

(2) WATERLINE ITEMS OF WORK

A. CUT & REMOVE EXISTING WATER SERVICE LINE LOCATED IN BUILDING FOOTPRINT.

B. SEE MECHANICAL PLANS FOR CONNECTION AT BUILDING.

(3) OTHER UTILITIES

A. COORDINATE WITH UTILITY COMPANY FOR CONNECTION TO EXISTING GAS LINE AND METER SERVICE SETTING.

B. 'DRY' UTILITY LINES SHALL BE PLACED A MINIMUM OF 24" BELOW GRADE & SHALL HAVE CRUSHER RUN BACKFILL TO SUBGRADE WHEN UNDER PAVEMENT.

C. SEE MECHANICAL DRAWINGS FOR A/C UNIT LOCATIONS.

L E G E N D

G — EXISTING GAS LINE	EX. GAS RISER
W — W — EXISTING WATER LINE	WV EX. WATER VALVE
SS — EX. SANITARY SEWER LINE	CO EX. SS CLEAN OUT
OHP — EX. OVERHEAD POWER LINE	PROPOSED INLET STRUCTURE
FO — EX. UNDERGROUND TELEPHONE LINE	PROPOSED 8" HDPE

PROFESSIONAL ENGINEER — JOSEPH D. STEVENS — 12297 — OKLAHOMA

8 - AUG - 2022

FOX ENGINEERING — CIVIL ENGINEERS
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REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY:
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: SITE UTILITY PLAN

SHEET NO.: C6

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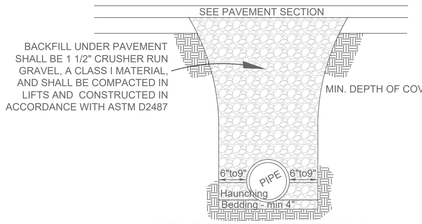
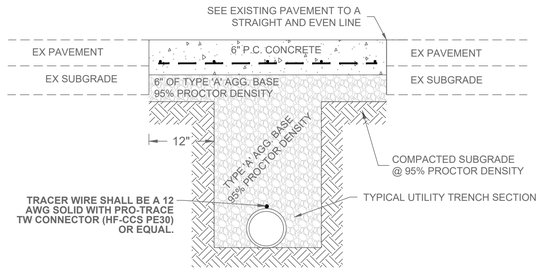
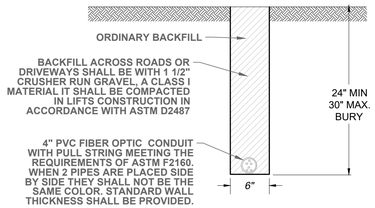


SEWER TRENCH SECTION
UNDER SIDEWALKS AND PAVEMENT

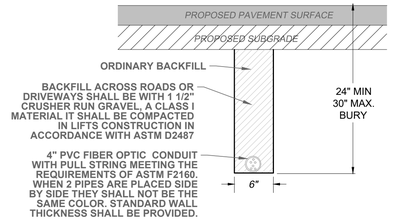
NOTE:
BEDDING FOR ALL UTILITIES, SLEEVES, ETC. UNDER ROADWAY AND DRIVEWAYS SHALL BE TYPE 'A' AGGREGATE BASE



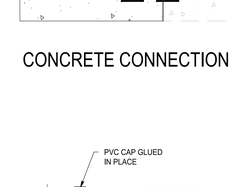
TYPICAL TRENCH SECTION
CONCRETE PAVEMENT REPAIR



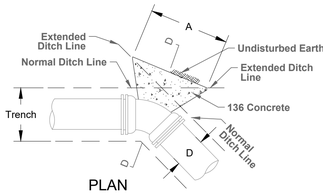
TYPICAL DITCH SECTION
DRY UTILITY



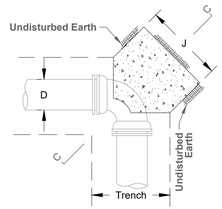
TYPICAL DITCH SECTION
DRY UTILITY



CONCRETE CONNECTION DETAIL



PLAN



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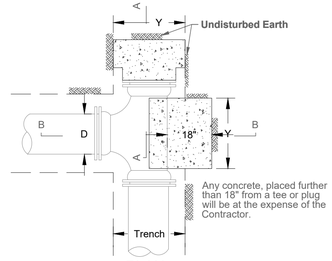
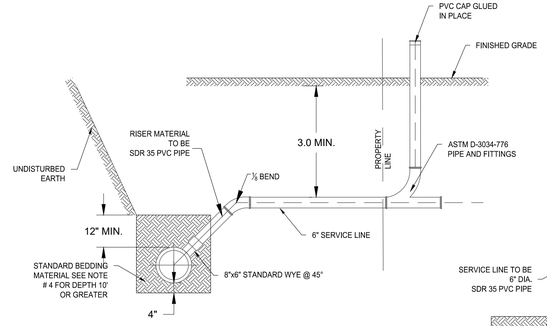


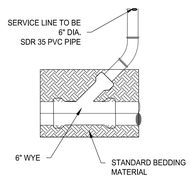
PLAN

TEES

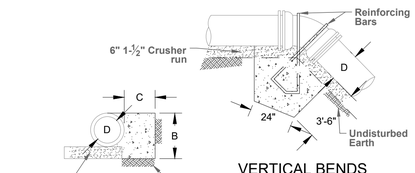


TYPICAL CLEAN OUT DETAIL

NOTES:
1. INSTALLATION AND BACKFILLING SHALL MEET MANUFACTURER'S RECOMMENDATIONS.
2. SELECT FILL CONSISTS OF EXCAVATED MATERIALS CONTAINING NO ROCKS LARGER THAN 50 MM (1 1/2").
3. STANDARD BEDDING MATERIAL (SBM) SHALL CONFORM TO ODOT 703.01, TYPE A AGGREGATE BASE OR FLOWABLE FILL PER SECTION 501.02(B).
4. COMPACTIONS REQUIREMENTS:
   a. NON PAVED AREAS: 90% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESION LESS SOIL AND 85% FOR COHESIVE SOILS.
   b. PAVED AREAS: 95% MAXIMUM STANDARD PROCTOR DENSITY FOR COHESION LESS SOILS.
5. IF TRENCH IS DRY BEDDING SHALL BE 4" SAND, SCREENINGS, OR TYPE A AGGREGATE BASE, AND IF WET SHALL BE NO. 57 STONE PER SECTION 701.06(C).
6. IN SANDY SOIL, CONTRACTOR MAY BACKFILL WITH NATIVE MATERIAL AND USE WARNING TAPE 18" ABOVE PIPE.
7. NO WATER JETTING ALLOWED.

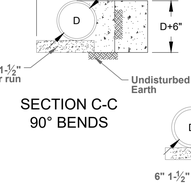


PLAN VIEW @ WYE

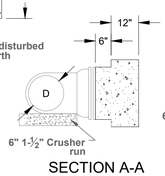


VERTICAL BENDS

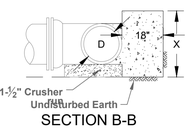
SECTION D-D
45°, 22 1/2°, 11 1/4° BENDS



SECTION C-C
90° BENDS



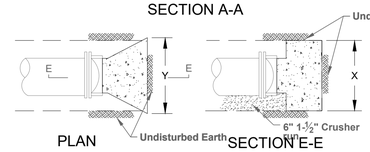
SECTION A-A



SECTION B-B

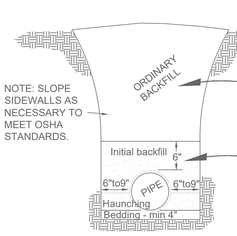
DIMENSIONS FOR CONCRETE ANCHORAGES												
Pipe	Trench	45° Bend			22 1/2° Bend			11 1/4° Bend			Tee or Plug		
Dia.	Width	A	B	C	A	B	C	A	B	C	X	Y	J
36	60	7'-0"	3'-0"	2'-6"	6'-0"	3'-0"	2'-6"	6'-0"	3'-0"	2'-6"	4'-0"	3'-4"	6'-5"
30	54	5'-6"	2'-6"	2'-0"	4'-6"	2'-6"	2'-0"	4'-6"	2'-6"	2'-0"	3'-6"	3'-0"	5'-8"
24	44	3'-9"	2'-6"	1'-10"	2'-6"	2'-6"	1'-1"	2'-0"	2'-6"	1'-0"	3'-3"	3'-0"	4'-9"
20	39	2'-9"	2'-2"	1'-8"	2'-0"	2'-2"	1'-1"	2'-0"	2'-2"	11"	3'-0"	2'-0"	4'-1"
18	37	2'-3"	2'-0"	1'-6"	2'-0"	2'-0"	1'-1"	2'-0"	2'-0"	11"	2'-3"	2'-0"	3'-9"
16	35	2'-0"	1'-10"	1'-5"	2'-0"	1'-10"	1'-1"	2'-0"	1'-10"	11"	1'-6"	2'-0"	3'-6"
12	30	2'-0"	1'-6"	1'-4"	2'-0"	1'-6"	1'-0"	2'-0"	1'-6"	11"	1'-0"	2'-0"	3'-0"
10	28	2'-0"	1'-4"	1'-4"	2'-0"	1'-4"	1'-0"	1'-10"	1'-4"	11"	1'-0"	1'-0"	2'-8"
8	26	2'-0"	1'-2"	1'-4"	1'-10"	1'-2"	1'-0"	1'-8"	1'-2"	11"	10"	1'-6"	2'-4"
6	24	2'-0"	1'-1"	1'-4"	1'-8"	1'-1"	1'-0"	1'-6"	1'-1"	11"	8"	1'-4"	2'-1"

COST FOR ALL THRUST BLOCKING SHALL BE INCLUDED IN PRICE BID FOR WATER PIPELINE

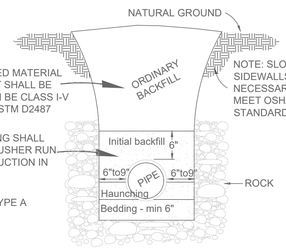


PLAN
SECTION E-E
PLUGS

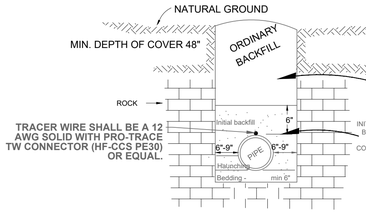
HORIZONTAL-CONCRETE ANCHORAGES



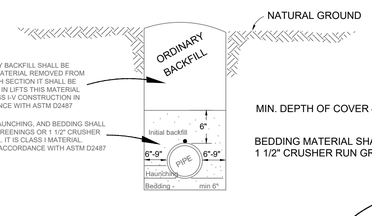
ORDINARY SEWER
TRENCH SECTION



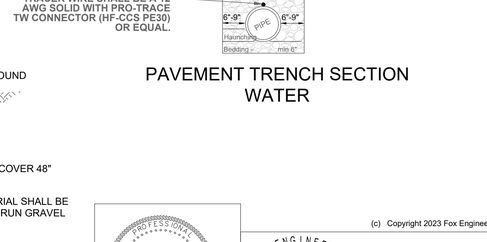
ROCK SEWER
TRENCH SECTION



ROCK TRENCH SECTION
WATER



ORDINARY TRENCH SECTION
WATER



PAVEMENT TRENCH SECTION
WATER

GENERAL CONSTRUCTION NOTES
WATERLINE

1. When necessary to cross existing utility lines, vertical clearance shall be a minimum of 2.0' for wastewater and 1.5' for all other utilities.

2. DOMESTIC Water pipe shall be SCHEDULE 40 PVC, meeting the requirements of ASTM D-1785. Joints shall be solvent weld meeting the requirements of ASTM D-2855 or elastomeric gasket meetin the requirements of ASTM D-3212 or ASTM-F-913.

3. FIRE LINE Water pipe shall be Class 150 PVC AWWA C-900 . Joints shall be rubber gasket meeting the requirements of D-1784. All items such as Tees, Ells, Reducers, etc. shall be included in price bid for piping.

4. Cast iron water valves shall conform to AWWA Standard C509 latest revision. Cast iron valves shall be iron body being of the resilient seat type, mechanical joint, Class 200.

5. All non-metallic utility systems are to be provided with a pipeline locating wire (no.12 TW Copper Wire) installed on the buried pipeline. The locating wire shall be attached to all metal valve boxes with a material that will not deteriorate due to electrolysis and will furnish a continuous current ground at each location. A driven ground rod shall be provided at non-metallic boxes or structures in a manner that will permit the attachments of a locating instrument which induces an electric traceable signal.

6. Concrete for thrust blocks and collars shall have a minimum of 6 sacks of cement per cubic yard and shall reach a compressive strength of 3500 PSI in 28 days. Mixing water shall not exceed 5 gallons per sack of cement.

7. The Contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area.

8. The Contractor shall construct a 2'x2'x6" Concrete collar around all water valves in pavement.

9. The Contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area.

10. The Contractor shall be responsible for locating and protecting all existing utilities, pipelines, etc., whether underground or above.

11. The Contractor shall perform pressure and leakage test, flush and disinfect the line, all in accordance with the State Health Department requirements. Bedding:

12. All new, cleaned or repaired potable water mains shall be disinfected in accordance with the Department's rules for Public Water Supply Operation, OAC 252:630. As an alternate, American Water Works Association C651 specifications may be used[OAC 252:625-17-4(6)].

13. Call OKIE before digging - 1-800-522-6543.

SANITARY SEWER

1. Sanitary Sewer Pipe shall be Schedule 40 and conform to the following standards: All Poly-vinyl Chloride (PVC) sewer pipe shall meet the requirements of ASTM-D-3034-77c (SDR 35). All fittings shall be elastomeric gasket joining as referenced in ASTM-D-3034.

2. When necessary to cross existing utility lines, vertical clearance shall be a minimum of 24".

3. Concrete shall have a minimum of 6 sacks of cement per cubic yard and shall reach a compressive strength of 3500 PSI in 28 days. Mixing water shall not exceed 5 gallons per sack of cement.

4. The Contractor shall take care not to damage existing utility lines, drainage structures, driveways, sidewalks, poles or any other structures adjacent to the work area.

5. The Contractor shall construct a 2'x2'x6" Concrete collar around all sanitary sewer clean-outs.

ARCHITECTS IN PARTNERSHIP

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PLANNERS

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HENNESSEY, OKLAHOMA
501 S. MAIN STREET

REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY:
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: UTILITY DETAILS
SHEET NO.: C7

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OKLAHOMA PROFESSIONAL ENGINEER — JOSEPH D. STEVENS — 12297 — 8 - AUG - 2022

FOX ENGINEERING — CIVIL — ENGINEERS

ARDMORE -OKLAHOMA

CERTIFICATE OF AUTHORIZATION NO. 5133
CERTIFICATE OF AUTHORIZATION EXPIRES 6-30-2024

GENERAL NOTES

FOUNDATION & EXCAVATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT BY BURGESS ENGINEERING AND TESTING (PROJECT NO. 731-22078), DATED APRIL 21, 2022.
2. ALL VEGETATION, TOP SOIL, PAVING, AND ANY LOOSE MATERIAL BENEATH THE PROPOSED BUILDING SITE SHALL BE STRIPPED AND REMOVED. EXPOSED SUBGRADE SHALL BE PROOF-ROLLED AND SOILS WHICH ARE OBSERVED TO RUT AND DEFLECT EXCESSIVELY SHALL BE UNDERCUT AND REMOVED ALSO.
3. AFTER ALL STRIPPING AND CUTTING OPERATIONS WITHIN THE BUILDING AREA ARE COMPLETE, THE SUBGRADE SHALL THEN BE SCARIFIED TO A MINIMUM DEPTH OF 8 INCHES AND COMPACTED TO AT LEAST 95 PERCENT OF ITS STANDARD PROCTOR DENSITY WITHIN THE RANGE OF -3 PERCENT TO +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE GRADE SHALL THEN BE RAISED TO 10 INCHES BELOW FINISHED FLOOR ELEVATION WITH LOW VOLUME CHANGE MATERIAL. FILL MATERIAL SHALL BE PLACED IN LIFTS OF 9" OR LESS AND SHALL BE COMPACTED AS STATED ABOVE.
4. LOW VOLUME CHANGE MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:

AMOUNT FINER THAN 3" SIEVE	=100 PERCENT
LIQUID LIMIT	= 35 MAXIMUM
PLASTICITY INDEX (PI)	= 15 MAXIMUM
	= 5 MINIMUM

5. THE FLOOR SLAB SHOULD BE CONSTRUCTED ON A COMPACTED SIX INCH THICK AGGREGATE BASE PLACED ON TOP OF A PROPERLY COMPACTED STRUCTURAL FILL. THESE AGGREGATE BASE MATERIALS SHOULD BE GRAVEL, FREE OF SHARP CORNERS OR EDGES, NATURAL STONE, WASH, FREE OF CLAY, SHALE, ORGANIC MATTER AND WITH 1/4 INCH MINIMUM SIZE AND 5/8 INCH MAXIMUM SIZE.
6. SHALLOW SPREAD FOOTINGS AND CONTINUOUS WALL FOOTINGS HAVE BEEN DESIGNED FOR ALLOWABLE SOIL BEARING PRESSURES OF 1,750 PSF AND 1,250 PSF RESPECTIVELY. FOOTINGS SHALL BEAR A MINIMUM OF 2 FEET BELOW FINISHED GRADE.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE SHOWN ON THE BORING LOGS.

REINFORCING STEEL NOTES:

1. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 (LATEST EDITION), "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 315 (LATEST EDITION), "STANDARD DETAILING MANUAL".
2. REINFORCING STEEL SHALL MEET ASTM A-615, GRADE 60.
3. PROVIDE BENT BARS AT ALL CORNERS. THE MINIMUM LENGTH OF EACH LEG OF THE BENT BAR SHALL BE EQUAL TO THE LAP SPLICE LENGTHS AS GIVEN BELOW.

#3 BARS	16"	#4 BARS	22"
#5 BARS	27"	#6 BARS	35"
#7 BARS	48"	#8 BARS	63"

4. UNLESS SHOWN OTHERWISE ON THE PLANS, BARS THAT ARE TOO LONG TO BE PLACED IN ONE PIECE SHALL BE LAP SPLICED A DISTANCE AS GIVEN ABOVE AND SPLICES SHALL BE STAGGERED. FOR HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW, USE 1.4 TIMES THE LAP SPLICE LENGTHS SPECIFIED ABOVE.
5. WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A-185. EDGE AND END SPLICES SHALL HAVE A MINIMUM LAP OF ONE FULL MESH AND SHALL BE HELD IN PLACE BY WIRING ALL LAPS SECURELY TOGETHER.
6. WELDED WIRE FABRIC SHALL BE SUPPLIED IN SHEETS (NOT ROLLS).
7. REINFORCING SHALL NOT BE WELDED IN ANY MANNER UNLESS APPROVED BY THE ENGINEER.

CONCRETE NOTES:

1. ALL CONCRETE SLABS-ON-GRADE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. ALL CONCRETE SUPPORTED SLABS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,500 PSI. ALL OTHER CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI UNLESS NOTED OTHERWISE.
2. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 LATEST EDITION, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", AND ACI 318 LATEST EDITION, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS NOTED OTHERWISE.
4. CLEAR DISTANCES FROM CAST-IN-PLACE CONCRETE SURFACES TO REINFORCING SHALL BE NO LESS THAN THE FOLLOWING UNLESS NOTED OTHERWISE:

WALLS	2"
SIDES OF FOOTINGS	3"
BOTTOM OF FOOTINGS	3"
SLABS-ON-GRADE	2" FROM TOP
SUPPORTED SLABS	1"

5. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
6. THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

METAL BUILDING SYSTEMS NOTES:

1. ALL COLUMNS, BEAMS, PURLINS, GIRTS, METAL SIDING, ROOFING, WIND BRACING AND OTHER STRUCTURAL APPURTENANCES NECESSARY TO COMPLETE THE SHELL OF THE BUILDING SHALL BE DESIGNED AND FABRICATED BY AN MBMA PRE-ENGINEERED METAL BUILDING MANUFACTURER, AND ERECTED BY AN EXPERIENCED METAL BUILDING ERECTOR.
2. ALL STRUCTURAL COMPONENTS AND THEIR CONNECTIONS, INCLUDING FOUNDATION ANCHOR BOLT DIAMETER, QUANTITY, & LOCATION, SHALL BE DESIGNED FOR THE METAL BUILDING MANUFACTURER BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF OKLAHOMA, WHO SHALL AFFIX HIS SEAL TO THE ERECTION DRAWINGS.
3. ALL STRUCTURAL MILL SECTIONS OR WELDED PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," AND ALL COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS".
4. THE FOLLOWING LOADING CRITERIA SHALL BE INCORPORATED IN THE DESIGN:
   A. "RECOMMENDED DESIGN PRACTICES MANUAL" OF THE METAL BUILDING MANUFACTURERS ASSOCIATION (LATEST EDITION).
   B. COMBINATION DESIGN LOAD CONDITIONS SHOULD COMPLY WITH MBMA SPECIFICATIONS.
      DL
      DL + LL
      DL + LL + WL
      DL + LL + SEISMIC FORCE
   C. ALL ROOF PURLINS SHALL BE DESIGNED TO SUPPORT ALL DEAD LOADS, LIVE LOADS, WIND LOADS, AND A 10 PSF ALLOWANCE FOR SUSPENDED MECHANICAL EQUIPMENT, LIGHT FIXTURES, CEILINGS, ETC.
   D. THE BUILDING FRAME SHALL BE DESIGNED TO LIMIT THE LATERAL DEFLECTION TO H/260 AT THE BUILDING EAVE FOR THE BASIC WIND SPEED STATED IN THE DESIGN CRITERIA.
   E. UNLESS WIND BRACING IS USED TO TAKE LATERAL LOADS, LOAD TESTS ON METAL PANEL WALLS AND ROOF MUST BE SUBMITTED WHERE THESE ARE USED AS A DIAPHRAGM.
   F. LOCATE WIND BRACING ONLY IN LOCATIONS THAT WILL NOT INTERFERE WITH ARCHITECTURAL, MECHANICAL, OR ELECTRICAL ELEMENTS.
5. RIGID FRAMES
   A. RIGID FRAMES SHALL CONSIST OF WELDED PLATE SECTION COLUMNS AND ROOF BEAMS COMPLETE WITH THE NECESSARY SPLICE PLATES FOR BOLTED FIELD ASSEMBLY.
      a. ALL BASE PLATES, CAP PLATES, COMPRESSION PLATES, AND STIFFENER PLATES SHALL BE FACTORY WELDED INTO PLACE AND HAVE THE CONNECTION HOLES SHOP FABRICATED.
      b. ALL SPLICE PLATES SHALL BE SHOP FABRICATED COMPLETE WITH BOLT CONNECTION HOLES.
      c. COLUMNS AND ROOF BEAMS SHALL BE FABRICATED COMPLETE WITH HOLES IN WEBS AND FLANGES FOR THE ATTACHMENT OF SECONDARY STRUCTURAL MEMBERS AND BRACING.
   B. ALL BOLTS FOR FIELD ASSEMBLY OF FRAME MEMBERS SHALL BE HIGH STRENGTH BOLTS UNLESS INDICATED OTHERWISE ON THE ERECTION DRAWINGS.
6. ENDWALL STRUCTURALS
   A. FOR BEAM AND POST ENDWALLS, THE ENDWALL STRUCTURALS SHALL BE MEMBERS DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF AISI "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
   B. ENDWALL FRAMES SHALL CONSIST OF ENDWALL CORNER COLUMNS AS REQUIRED BY DESIGN CRITERIA.
      a. ALL SPLICE PLATES AND BASE CLIPS SHALL BE SHOP FABRICATED COMPLETE WITH BOLT CONNECTION HOLES.
      b. BEAMS AND COLUMNS SHALL BE SHOP FABRICATED COMPLETE WITH HOLES FOR THE ATTACHMENT OF SECONDARY STRUCTURAL MEMBERS.
7. PURLINS AND GIRTS
   A. PURLINS AND GIRTS SHALL BE "Z" SHAPED AND PRECISION ROLL FORMED.
   B. EAVE STRUTS SHALL BE "C" SECTIONS.
   C. VERTICAL DEFLECTION SHALL BE LIMITED TO A MAXIMUM 1/240 OF SPAN.
8. WELDING
   A. WELDING PROCEDURE AND OPERATOR QUALIFICATIONS AND WELDING QUALITY STANDARDS SHALL BE IN ACCORDANCE WITH AWS D-1.1 "STRUCTURAL WELDING CODE." INSPECTIONS SHALL BE AS DEFINED BY AWS PARAGRAPH 8.15.1.
   B. CERTIFICATION OF WELDER'S QUALIFICATIONS SHALL BE SUPPLIED WHEN REQUESTED.
9. STRUCTURAL PAINTING
   A. PRIOR TO PAINTING, THE FABRICATOR SHALL CLEAN THE STEEL OF LOOSE RUST, LOOSE MILL SCALE, DIRT, AND OTHER FOREIGN MATERIAL.
   B. THE FABRICATOR SHALL THEN FACTORY COAT ALL STEEL WITH PRIMER PAINT AS INDICATED IN THE SPECIFICATIONS.
10. METAL BUILDING FABRICATOR SHALL BE A MEMBER OF MBMA.
11. METAL BUILDING SHOP ERECTION DRAWING SHALL BE DETAILED USING GRIDS AS SHOWN ON THE STRUCTURAL DRAWINGS. THE METAL BUILDING DETAILER WILL BE PERMITTED TO CREATE ADDITIONAL GRIDS BUT THOSE GRID SHALL BE REFERENCED BACK TO THE EXISTING GRIDS ON THE STRUCTURAL DRAWINGS. IN NO CASE SHALL THE ERECTION DRAWING CONTAIN GRIDS WHICH HAVE IDENTICAL MARKS TO THE STRUCTURAL DRAWINGS BUT WITH DIFFERENT DIMENSIONS.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE AISC CODE OF STANDARD PRACTICE.
2. STRUCTURAL STEEL MATERIAL SHALL MEET THE REQUIREMENTS OF THE FOLLOWING ASTM STANDARDS:

WIDE FLANGE SHAPES:	A992 GRADE 50
STEEL TUBES:	A500 GRADE B
PIPE COLUMNS:	A53, TYPES E OR S, GRADE B OR A501
MISCELLANEOUS SHAPES:	A36

3. ALL STEEL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD AISC WELDED OR BOLTED CONNECTIONS. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A-325 BOLTS UNLESS NOTED OTHERWISE.
4. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION) "STRUCTURAL WELDING CODE."
5. STEEL BOLTED CONNECTIONS SHALL HAVE NUTS TIGHTENED AND COLUMNS SHALL BE PLUMBED AND GROUTED IN PLACE BEFORE DECKING IS ATTACHED TO FRAMING.
6. ALL STEEL COLUMN BASE PLATES SHALL BE 3/4" THICK AND SHALL HAVE FOUR 3/4" DIA. ANCHOR BOLTS WITH WASHERS, DOUBLE NUTS, AND A MINIMUM 3 INCH HOOK UNLESS NOTED OTHERWISE. ANCHOR BOLTS SHALL EXTEND TO 3 INCHES CLEAR OF THE BOTTOM OF CONCRETE OR TO 18 INCHES, WHICHEVER IS LESS.
7. STEEL JOISTS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST STEEL JOIST INSTITUTE SPECIFICATIONS.
8. STEEL JOISTS SHALL BE FIELD WELDED TO SUPPORTING MEMBERS, EXCEPT, PROVIDE BOLTED CONNECTIONS WHERE COLUMNS ARE NOT FRAMED IN TWO DIRECTIONS.
9. ALL HORIZONTAL AND "X" BRIDGING SHALL MEET OR EXCEED THE SIZE AND SPACING REQUIREMENTS OF THE STEEL JOIST INSTITUTE SPECIFICATIONS OR THE MANUFACTURERS STANDARDS WHICHEVER IS MORE RESTRICTIVE.
10. ALL STEEL ROOF DECK SHALL BE PAINTED AND STEEL COMPOSITE DECK SHALL BE GALVANIZED. ALL STEEL DECK SHALL COMPLY WITH THE STEEL DECK INSTITUTE REQUIREMENTS AND SHALL HAVE A MINIMUM YIELD STRENGTH AS FOLLOWS:

   TYPE C DECK Fy = 60 KSI

11. IN BRICK VENEER AT ALL DOOR, WINDOW AND MECHANICAL OPENINGS LESS THAN 4'-0" WIDE, PROVIDE A 3 1/2" X 3 1/2" X 1/4" STEEL LINTEL ANGLE WHICH EXTENDS AT LEAST 6" BEYOND EACH JAMB. AT OPENINGS 4'-0" TO 7'-0" USE A 5" X 3 1/2" X 1/4" STEEL LINTEL ANGLE WHICH EXTENDS AT LEAST 6" BEYOND EACH JAMB.
12. THE STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL AS REQUIRED BY THE SPECIFICATIONS. THESE SHOP DRAWINGS SHALL INCLUDE ERECTION DRAWINGS WHICH ASSIGN A PIECE MARK TO EACH STRUCTURAL MEMBER. THE SHOP DRAWINGS SHALL ALSO INCLUDE STRUCTURAL SECTIONS WHICH IDENTIFY PLACEMENT OF ALL STEEL COMPONENTS WHOSE PLACEMENT IS NOT CLEARLY SHOWN ON THE ERECTION DRAWINGS.
13. THE STEEL FABRICATOR SHALL RETAIN A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF OKLAHOMA, WHO SHALL DESIGN AND BE RESPONSIBLE FOR ALL CONNECTIONS NOT SHOWN OR ONLY PARTIALLY DETAILED ON THE DRAWINGS. THE FABRICATOR SHALL SUBMIT CONNECTION DRAWINGS WITH CALCULATIONS, SEALED BY HIS ENGINEER, WHICH WILL BE RETAINED FOR THE ARCHITECT'S FILE AND WILL NOT BE RETURNED.

COLD FORMED METAL FRAMING:

1. ALL COLD FORMED METAL FRAMING SHALL HAVE A MINIMUM THICKNESS OF 33 MILS (20 GA) AND SHALL BE SPACED AT A MAXIMUM OF 16 INCHES ON CENTER UNLESS NOTED OTHERWISE AND SHALL MEET THE MINIMUM STRUCTURAL PROPERTIES FROM THE AMERICAN IRON AND STEEL INSTITUTE - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING LATEST EDITION. MINIMUM FLANGE WIDTH OF FRAMING MEMBERS SHALL BE 1 5/8 INCH AND THE LIP LENGTH OF THE C-SHAPE PORTION SHALL BE A MINIMUM OF 1/2 INCH.
2. WALL STUDS AS BACKING TO MASONRY VENEER SHALL HAVE A MINIMUM THICKNESS OF 43 MILS (18 GA).
3. METAL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE:

A. 54 MILS (16 GA) AND HEAVIER	ASTM A1003, GRADE 50 TYPE H (ST50H)
B. 43 MILS (18 GA) AND LIGHTER	ASTM A1003, GRADE 33 TYPE H (ST33H)
C. ACCESSORIES, TRACK AND OTHER MEMBERS	ASTM A1003, GRADE 33 TYPE H (ST33H) MINIMUM

4. DO NOT WELD 33 MILS (20 GA) AND LIGHTER FRAMING, UNLESS SPECIFICALLY NOTED ON THE PLANS AND DETAILS.
5. METAL FRAMING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS. HORIZONTAL BRACING FOR WALL STUDS SHALL BE PLACED AT 48 INCHES ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 48 INCHES ON CENTER. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING UNLESS NOTED OTHERWISE.
6. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF AWS D1.3, SHEET METAL.
7. TRACK SHALL BE 54 MILS (16 GA) MINIMUM FOR WALL STUDS 54 MILS (16 GA.) OR LIGHTER. TRACK SHALL MATCH WALL STUD THICKNESS FOR WALL STUDS 68 MILS (14 GA.) AND HEAVIER. TRACKS SHALL BE ANCHORED AS FOLLOWS:

A. TO STEEL	HILTI X-U, 0.157 INCH DIAMETER KNURLED SHANK FASTENERS AT 12 INCHES ON CENTER (ESR-2269) OR APPROVED EQUAL. UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
B. TO CONCRETE	HILTI X-U, 0.157 DIAMETER KNURLED SHANK FASTENERS AT 8" O.C. WITH 1 1/2" EMBEDMENT (ESR-2269) OR APPROVED EQUAL, UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.

MASONRY NOTES:

1. CONCRETE MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 530/ASCE 5 (LATEST EDITION), "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6 (LATEST EDITION), "SPECIFICATIONS FOR MASONRY STRUCTURES".
2. AT ALL CONCRETE BLOCK WALLS PROVIDE TROUGH BLOCK BEAM COURSES AT DOOR HEADS, WINDOW HEADS, AND ABOVE ALL MECHANICAL OPENING OVER 32". PROVIDE KNOCK-OUT BOND BEAM COURSES AT TOP COURSES, BOTTOM COURSES, BELOW WINDOWS, AND AT EVERY 6TH COURSE. BEAM COURSES ABOVE DOORS, WINDOWS, AND MECHANICAL OPENINGS SHALL EXTEND A MINIMUM OF 24" EITHER SIDE OF OPENINGS. BEAM COURSES SHALL BE REINFORCED AS FOLLOWS:

4" BLOCK	1-#3
6" BLOCK	1-#4
8" BLOCK	2-#4
12" BLOCK	2-#5

3. AT "HARDENED" CMU WALLS, ADDITIONAL BEAM COURSES SHALL BE ADDED SO THAT KNOCK-OUT BOND BEAMS OCCUR EVERY 3RD COURSE. THE REINFORCING SHALL BE AS STATED ABOVE.
4. UNLESS SHOWN OTHERWISE ON THE PLANS, BARS THAT ARE TOO LONG TO BE PLACED IN ONE PIECE SHALL BE LAP SPLICED A DISTANCE AS GIVEN IN REINFORCING STEEL NOTES AND SPLICES SHALL BE STAGGERED.
5. AT ALL OPENINGS IN CONCRETE BLOCK WALLS, REINFORCE ONE VERTICAL CELL ON EACH SIDE OF THE OPENING WITH A #5 BAR, UNLESS NOTED OTHERWISE.
6. AT TYPICAL CMU WALLS, VERTICAL CELLS OF CONCRETE BLOCK WALLS SHALL BE REINFORCED WITH #5 BARS AT 48" CENTERS.
7. AT "HARDENED" CMU WALLS, VERTICAL CELLS OF 8" CONCRETE BLOCK WALLS SHALL BE REINFORCED WITH #5 BARS AT 8" CENTERS (ALL CELLS REINFORCED) UNLESS NOTED OTHERWISE.
8. BENEATH ALL LOCATIONS WHERE STEEL BEAMS BEAR ON CONCRETE BLOCK WALLS, REINFORCE TWO VERTICAL CELLS WITH A #5 BAR IN EACH CELL, UNLESS NOTED OTHERWISE.
9. AT TYPICAL CMU WALLS, DOWELS SHALL EXTEND FROM THE FOUNDATION INTO THE CONCRETE MASONRY WALLS AT ALL LOCATIONS OF VERTICAL WALL REINFORCEMENT. DOWEL SIZE SHALL BE THE SAME SIZE AS WALL REINFORCING AND HAVE A MINIMUM EMBEDDED LENGTH OF 18".
10. AT "HARDENED" CMU WALLS, DOWEL SIZES FOR 8" BLOCK WALLS SHALL BE #5 BARS AT 8" CENTERS AND SHALL HAVE A MINIMUM EMBEDDED LENGTH OF 18".
11. ALL CONCRETE BLOCK TROUGHS AND CELLS THAT ARE REINFORCED SHALL BE FILLED WITH CONCRETE GROUT (NOT MORTAR) HAVING A COMPRESSIVE STRENGTH OF 3,000 PSI.
12. AT ALL LOCATIONS WHERE MASONRY WALLS INTERSECT, WALLS SHALL BE CONNECTED WITH 50-PERCENT OF UNITS INTERLOCKED AT THE WEB-FLANGE INTERFACE (I.E. RUNNING BOND).
13. AT "HARDENED" CMU WALLS ALL CONCRETE BLOCK ASSEMBLIES SHALL UTILIZE TYPE S MORTAR AND SHALL PROVIDE A MINIMUM PRISM STRENGTH, f'm, OF 2,500 PSI.

CODES, STANDARDS, AND DESIGN CRITERIA:

1. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE (IBC-2018)
2. ROOF LOADS:

DEAD LOAD: SELF WEIGHT OF MATERIALS UNLESS NOTED OTHERWISE	
COLLATERAL LOAD:	10 PSF
LIVE LOAD:	20 PSF

3. MEZZANINE LOADS:

DEAD	25 PSF
LIVE	60 PSF

4. SNOW LOADS:

GOVERNING CODE	ASCE 7-10
GROUND SNOW LOAD, Pg	10 PSF

5. WIND LOADS:

GOVERNING CODE	ASCE 7-10
DESIGN WIND SPEED	115 MPH
WIND EXPOSURE CLASSIFICATION	C
RISK CATEGORY	II
INTERNAL PRESSURE COEFF, GCpi	+/- 0.18

6. SEISMIC LOADS:

GOVERNING CODE	ASCE 7-10
RISK CATEGORY	II
IMPORTANCE FACTOR, Ie	1.0
SOIL SITE CLASSIFICATION	C
MAPPED SPECTRAL ACCELERATION, Ss	0.199
MAPPED SPECTRAL ACCELERATION, S1	0.066
DESIGN SPECTRAL ACCELERATION, Sds	0.212
DESIGN SPECTRAL ACCELERATION, Sd1	0.106
SEISMIC DESIGN CATEGORY	B

BASIC SEISMIC FORCE-RESISTING SYSTEM:
STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

MISCELLANEOUS NOTES:

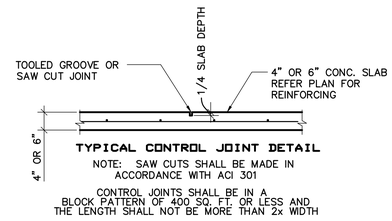
1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR BEFORE PROCEEDING WITH CONSTRUCTION AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
2. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
3. THE STEEL FABRICATOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MISCELLANEOUS STEEL SHOWN ON THE ARCHITECTURAL DRAWINGS.
4. CONTROL AND CONSTRUCTION JOINTS SHALL BE LOCATED AS DIRECTED ON THE PLANS OR AS DIRECTED BY THE ARCHITECT.
5. EXPANSION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS.

SHOP DRAWING NOTES:

1. REPRODUCTION OF THESE DRAWINGS FOR USE AS SHOP DRAWINGS, FABRICATION DRAWINGS, OR ERECTION DRAWINGS IS NOT AUTHORIZED AND, IF SUBMITTED, WILL BE REJECTED WITHOUT BEING CHECKED. A LICENSE TO USE ANY PORTION OR ALL OF THE STRUCTURAL CAD FILES FOR THE LIMITED PURPOSE OF ASSISTING THE CONTRACTOR'S PREPARATION OF SHOP DRAWINGS FOR SUBMITTAL UNDER THE CONSTRUCTION CONTRACT MAY BE PURCHASED FROM THE STRUCTURAL ENGINEER UNDER A STANDARD FORM OF AGREEMENT FOR A FEE OF $150.00. UNDER SUCH AN AGREEMENT, THESE FILES WILL BE PROVIDED IN AUTOCAD VERSION 2013.
2. SHOP DRAWING SUBMITTALS SHALL CONSIST OF PDF FILES. THESE FILES SHALL ALLOW ELECTRONIC STAMPING, REDLINING AND MARKUPS AND THEREFORE SHALL NOT BE LOCKED FROM EDITING.
3. AFTER SHOPS DRAWING REVIEW, RETURNED SHOP DRAWINGS WILL BE MARKED WITH EITHER "APPROVED", "APPROVED AS NOTED" OR "REVISE AND RESUBMIT". NONE OF THESE DESIGNATIONS RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM COMPLIANCE WITH ALL OF THE CONSTRUCTION DOCUMENTS INCLUDING THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. ANY REQUEST FOR DEVIATION FROM THESE DRAWINGS AND SPECIFICATION MUST BE MADE IN A "REQUEST FOR INFORMATION" THROUGH THE ARCHITECTS OFFICE.

SPREAD FOOTING SCHEDULE

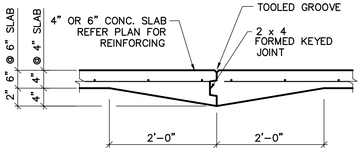
MARK	FOOTING SIZE	REINFORCING
F1	3'-0" x 3'-0" x 1'-0"	(5) - #4 EA. WAY
F2	4'-0" x 4'-0" x 1'-0"	(6) - #4 EA. WAY
F3	5'-0" x 5'-0" x 1'-6"	(7) - #4 EA. WAY
F4	6'-0" x 6'-0" x 1'-6"	(7) - #5 EA. WAY



TYPICAL CONTROL JOINT DETAIL

NOTE: SAW CUTS SHALL BE MADE IN ACCORDANCE WITH ACI 301

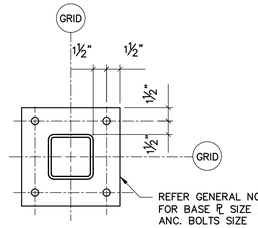
CONTROL JOINTS SHALL BE IN A BLOCK PATTERN OF 400 SQ. FT. OR LESS AND THE LENGTH SHALL NOT BE MORE THAN 2x WIDTH



TYPICAL CONSTRUCTION JOINT

1 SLAB ON GRADE DETAILS

SCALE: 3/4" = 1'-0"



DETAIL "A"

2 BASE PLATE DETAILS

SCALE: 1-1/2" = 1'-0"

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

3220 MARSHALL AVENUE
NORMAN, OK 73072
TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

OK CERT. OF AUTH. NO. 4530
EXPIRATION 06/30/24
PROJECT NO. 22-027

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER:	NK
DRAWN BY:	NK
CHECKED BY:	RM
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	GENERAL NOTES
SHEET NO.:	S-101

Engineering Solutions, LLC
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Tel. (405) 848-4093

STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS

STATEMENT OF SPECIAL INSPECTIONS NOTES:

1. THIS STATEMENT OF SPECIAL INSPECTIONS IS INCLUDED AS REQUIRED BY SECTION 1704 OF THE 2018 INTERNATIONAL BUILDING CODE.
2. THE OWNER SHALL EMPLOY ONE OR MORE QUALIFIED SPECIAL INSPECTORS FOR THIS PROJECT. THE SPECIAL INSPECTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THEIR COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT WHEN THE DOCUMENTED EXPERIENCE OR TRAINING IS RELATED IN COMPLEXITY TO THE SAME TYPE OF SPECIAL INSPECTION ACTIVITIES FOR PROJECTS OF SIMILAR COMPLEXITY AND MATERIAL QUALITIES.
3. SPECIAL INSPECTOR(S) SHALL KEEP RECORDS OF SPECIAL INSPECTIONS AND TESTS. INSPECTION REPORTS SHALL BE FURNISHED BY THE SPECIAL INSPECTOR(S) TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONALS IN RESPONSIBLE CHARGE. SUCH REPORTS SHALL BE SUBMITTED AT THE COMPLETION OF EACH ITERATION OF A SPECIAL INSPECTION/SITE VISIT. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE APPLICANT TO THE BUILDING OFFICIAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REASONABLE NOTICE TO THE SPECIAL INSPECTOR(S) REGARDING WHEN ELEMENTS OF THE PROJECT WILL BE READY FOR EFFICIENT IMPLEMENTATION OF SPECIAL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE LATEST VERSION OF ALL APPROVED PLANS AND SHOP DRAWINGS AS REQUIRED FOR THE SPECIAL INSPECTOR'S USE IN PERFORMING SPECIAL INSPECTIONS. THE CONTRACTOR SHALL GRANT ACCESS TO THE OWNER'S SPECIAL INSPECTOR(S) AS IS REASONABLY NECESSARY FOR THE PROPER PERFORMANCE OF SPECIAL INSPECTIONS.
5. SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND METHODS AND JOBSITE SAFETY ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
6. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS. IF CONFLICTING REQUIREMENTS ARE FOUND, THE MORE STRINGENT PROVISION SHALL CONTROL UNLESS DIRECTED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

INSPECTION OF FABRICATORS:

WHERE FABRICATION OF STRUCTURAL, LOADBEARING, OR LATERAL LOAD-RESISTING MEMBERS AND ASSEMBLIES IS BEING PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED IN ACCORDANCE WITH SECTION 1704.2 OF THE 2018 INTERNATIONAL BUILDING CODE AND AS REQUIRED ELSEWHERE IN THE CODE. (EXCEPT WHERE THE FABRICATOR IS APPROVED IN ACCORDANCE WITH SECTION 1704.2.2)

SUCH SPECIAL INSPECTIONS SHALL BE PERFORMED BY A PROFESSIONAL ENGINEER OR AN EMPLOYEE OF AN APPROVED TESTING AGENCY.

INSPECTION OF STRUCTURAL STEEL CONSTRUCTION:

SPECIAL INSPECTIONS AND NON-DESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES, AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. (NOTE: ALL FIELD WELDS SHALL BE INSPECTED BY AN AWS CERTIFIED WELDING INSPECTOR.)

WELDING INSPECTION AND SPECIAL INSPECTOR QUALIFICATION FOR STRUCTURAL STEEL SHALL BE IN COMPLIANCE WITH AWS D1.1.

INSPECTION OF COLD-FORMED STEEL DECK:

SPECIAL INSPECTIONS AND THE QUALIFICATION OF THE SPECIAL INSPECTOR(S) FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC.

WELDING INSPECTION AND SPECIAL INSPECTOR QUALIFICATION FOR COLD-FORMED STEEL FLOOR AND ROOF DECKS SHALL BE IN COMPLIANCE WITH AWS D1.3.

INSPECTION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:

SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH TABLE 1705.2.3

INSPECTION OF CONCRETE CONSTRUCTION:

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705.3 OF THE 2015 INTERNATIONAL BUILDING CODE AND WITH TABLE 1705.3.

IN THE ABSENCE OF SUFFICIENT DATA OR DOCUMENTATION PROVIDING EVIDENCE OF CONFORMANCE TO QUALITY STANDARDS FOR MATERIALS IN CHAPTER 19 AND 20 OF ACI 318, THE BUILDING OFFICIAL SHALL REQUIRE TESTING OF MATERIALS IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTERS 19 AND 20 OF ACI 318

WELDING INSPECTION AND SPECIAL INSPECTOR QUALIFICATION FOR REINFORCING STEEL SHALL BE IN COMPLIANCE WITH AWS D1.4 AND ACI 318.

INSPECTION OF MASONRY CONSTRUCTION:

SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6

INSPECTION OF SOILS:

SPECIAL INSPECTIONS AND TESTS OF EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705.6 OF THE 2018 INTERNATIONAL BUILDING CODE AND TABLE 1705.6. THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE. DURING FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT PROPER MATERIALS AND PROCEDURES ARE USED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT.

STATEMENT OF RESPONSIBILITY:

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION, FABRICATION, OR INSTALLATION OF A MAIN WIND OR SEISMIC FORCE-RESISTING SYSTEM OR A WIND OR SEISMIC FORCE-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, THE RESPONSIBLE DESIGN PROFESSIONAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

A. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

C. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.

D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

REQUIRED VERIFICATIONS AND SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION (BOLTING)

CHECK IF REQUIRED — CHECK IF REQUIRED — CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSPECTION PRIOR TO BOLTING (AISC 360-10):		
A. VERIFY IDENTIFICATION MARKINGS CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		QC & QA
B. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	QA	QC
C. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		QC & QA
D. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		QC & QA
E. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL		QC & QA
F. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		QC & QA
G. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	QC	QA
H. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		QC & QA
2. INSPECTION DURING BOLTING (AISC 360-10):		
A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED		QC & QA
B. SNUG-TIGHT JOINTS AND JOINTS BROUGHT TO THE SNUG- TIGHT CONDITION PRIOR TO THE PRESTRESSING OPERATION		QC & QA
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		QC & QA
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES		QC & QA
E. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT, OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION		QC & QA
F. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	QC & QA	
3. INSPECTION AFTER BOLTING (AISC 360-10):		
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	QC & QA	

TABLE 1705.3: REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

CHECK IF REQUIRED — CHECK IF REQUIRED — CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		✖
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		✖
B. INSPECT SINGLE-PASS FILLET WELDS, MAX. $\frac{5}{16}$"; AND		✖
C. INSPECT ALL OTHER WELDS	✖	
3. INSPECT ANCHORS CAST IN CONCRETE		✖
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	✖	
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.		✖
5. VERIFY USE OF REQUIRED DESIGN MIX		✖
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	✖	
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	✖	
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		✖
9. INSPECT PRESTRESSED CONCRETE FOR:		
A. APPLICATION OF PRESTRESSING FORCES; AND	✖	
B. GROUTING OF BONDED PRESTRESSING TENDONS	✖	
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		✖
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		✖
12. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		✖

REQUIRED VERIFICATIONS AND SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION

CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.		✖
2. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, AND PRESTRESSING GROUT FOR BONDED TENDONS		✖
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		✖
C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		✖
D. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	✖	
E. GROUT SPACE PRIOR TO GROUTING	✖	
F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	✖	
G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		✖
H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	✖	
I. WELDING OF REINFORCEMENT	✖	
J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		✖
K. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	✖	
L. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	✖	
M. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	✖	
3. OBSERVE PREPARATION OF GROUT SPECIMINS, MORTAR SPECIMENS, AND/OR PRISMS	✖	
VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4B PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SQ. FT. (465 SP. M) DURING CONSTRUCTION		
VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE		
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT		

REQUIRED VERIFICATIONS AND SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION

CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK ELEMENTS:		
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS SHALL CONFORM TO AISC 360-10		✖
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS SHALL CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		✖
2. INSPECTION OF STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT:		
A. PLACEMENT AND INSTALLATION OF STEEL DECK	QC & QA	
B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	QC & QA	
C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	QC & QA	

REQUIRED VERIFICATIONS AND SPECIAL INSPECTIONS FOR STEEL CONSTRUCTION (WELDING)

CHECK IF REQUIRED — CHECK IF REQUIRED — CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSPECTION PRIOR TO WELDING (AISC 360-10):		
A. VERIFY IDENTIFICATION MARKINGS OF WELD FILLER MATERIALS CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS		✖
B. WELDING PROCEDURE SPECIFICATIONS ARE AVAILABLE	QC & QA	
C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	QC & QA	
D. MATERIAL IDENTIFICATION (TYPE/GRADE) AND WELDER IDENTIFICATION SYSTEM		QC & QA
E. FIT-UP OF WELDS INCLUDING BUT NOT LIMITED TO JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING TYPE AND FIT AS APPLICABLE		QC & QA
F. CONFIGURATION AND FINISH OF ACCESS HOLES		QC & QA
G. CHECK WELDING EQUIPMENT		QC
2. INSPECTION DURING WELDING (AISC 360-10):		
A. USE OF QUALIFIED WELDERS		QC & QA
B. PACKAGING AND EXPOSURE CONTROL AND HANDLING OF WELDING CONSUMABLES		QC & QA
C. NO WELDING OVER CRACKED TACK WELDS		QC & QA
D. ENVIRONMENTAL CONDITIONS INCLUDING BUT NOT LIMITED TO PRECIPITATION, TEMPERATURE, AND WIND SPEEDS WITHIN LIMITS		QC & QA
E. VERIFY SETTINGS ON EQUIPMENT, TRAVEL SPEEDS, ELECTED MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEATING INTERPASS TEMPERATURES AND PROPER POSITION MEETS WPS STANDARDS		QC & QA
F. VERIFY WELDING TECHNIQUES FOR INTERPASS, FINAL CLEANING, PROFILE LIMITATIONS, AND QUALITY REQUIREMENTS		QC & QA
3. INSPECTION AFTER WELDING (AISC 360-10):		
A. WELDS ARE CLEANED AND PAINTED WHERE REQUIRED		QC & QA
B. VERIFY SIZE, LENGTH, AND LOCATIONS OF WELDS	QC & QA	
C. VISUALLY VERIFY WELDS FOR CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUTTING, AND POROSITY	QC & QA	
D. ARC STRIKES, K-AREA CRACKS WITHIN 3" OF WELD, REMOVAL OF BACKING, AND REPAIR ACTIVITIES AS APPLICABLE	QC & QA	
E. DOCUMENTATION OF ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	QC & QA	
4. REQUIREMENTS FOR STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:		
A. INSPECT COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	✖	
B. INSPECT MULTIPASS FILLET WELDS	✖	
C. INSPECT SINGLE PASS FILLET WELDS > 5/16"	✖	
D. INSPECT PLUG AND SLOT WELDS	✖	
E. INSPECT SINGLE-PASS FILLET WELDS ≤ 5/16"		✖
F. INSPECT FLOOR AND ROOF DECK WELDS		✖
G. INSPECT WELDED STUDS AND DEFORMED BAR ANCHORS		✖
H. INSPECT WELDED SHEET STEEL FOR COLD-FORMED STEEL MEMBERS		✖
I. INSPECT WELDING OF STAIRS AND RAILING SYSTEMS		✖

TABLE 1705.2.3: REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS		
A. END CONNECTIONS – WELDING OR BOLTED		✖
B. BRIDGING – HORIZONTAL OR DIAGONAL		
1. STANDARD BRIDGING		✖
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		✖

TABLE 1705.6: REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOIL

CHECK IF REQUIRED

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		✖
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		✖
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		✖
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	✖	
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		✖

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SEAL:

OK CERT. OF AUTH. NO. 4530
EXPIRATION 06/30/24
PROJECT NO. 22-027

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

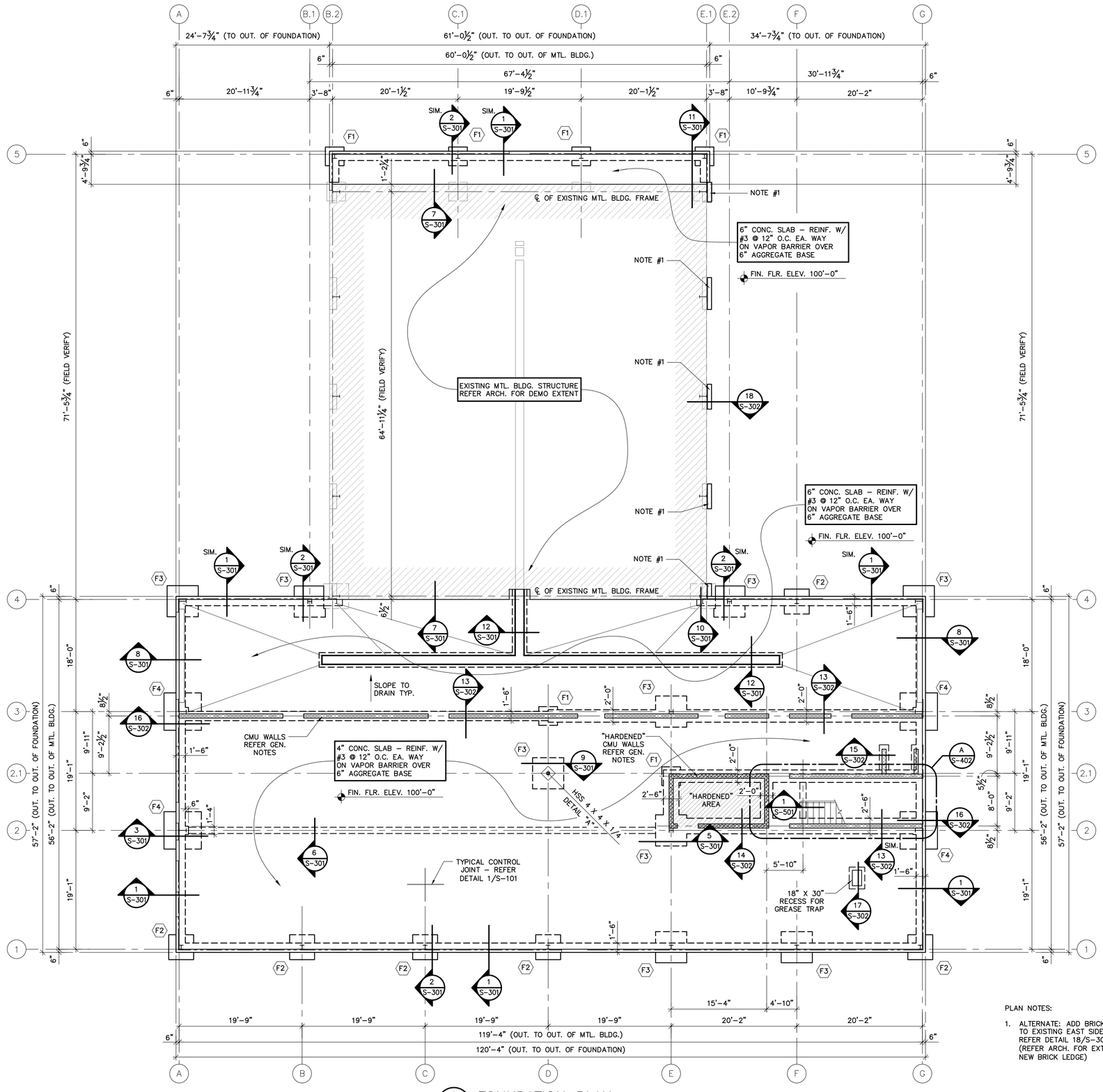
PROJ. MANAGER: NK
DRAWN BY: NK
CHECKED BY: RM

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: SPECIAL INSPECTIONS

SHEET NO.: S-102

Engineering Solutions, LLC
6801 North Broadway, Suite 215
Oklahoma City, OK 73116
Tel. (405) 848-4093



A S-201 FOUNDATION PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. ALTERNATE: ADD BRICK LEDGE TO EXISTING EAST SIDE. REFER DETAIL 18/S-302 (REFER ARCH. FOR EXTENT OF NEW BRICK LEDGE)

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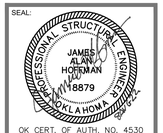
SEAL:



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DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: FOUNDATION PLAN

SHEET NO.: S-201

Engineering Solutions, LLC
6801 North Broadway, Suite 215
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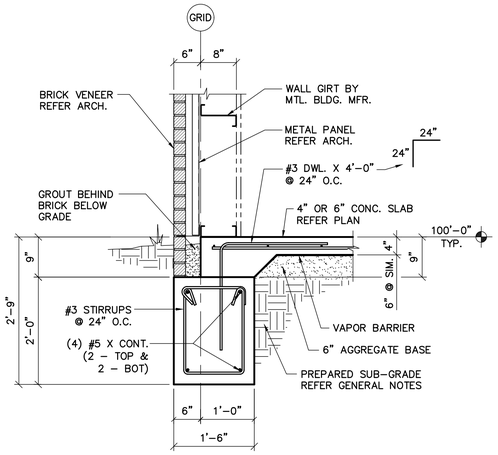

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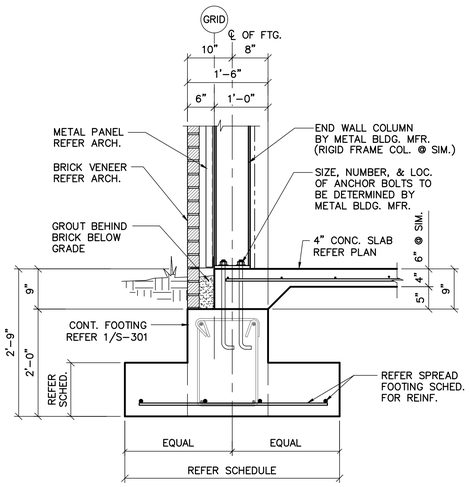

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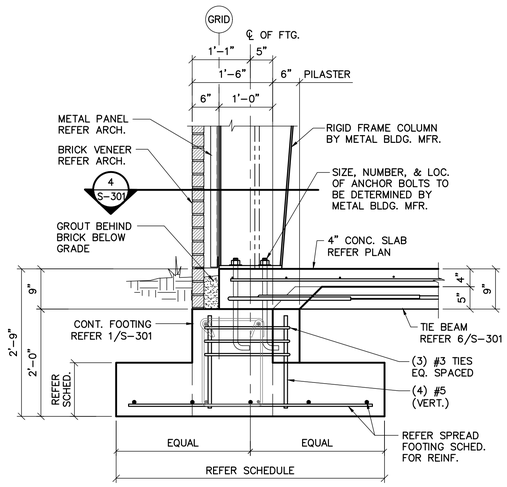

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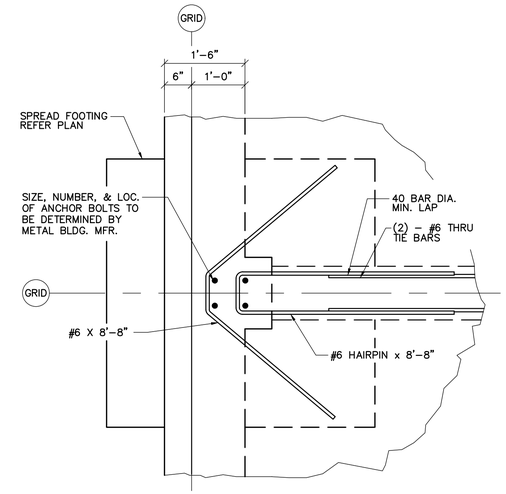

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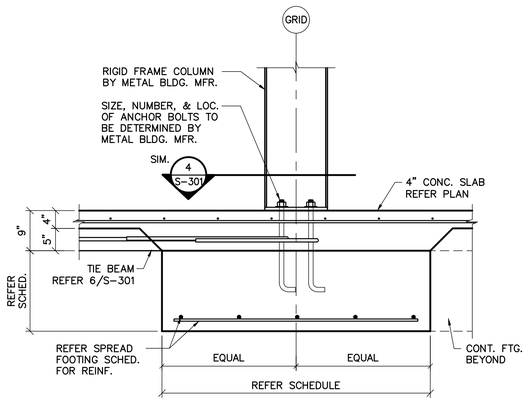

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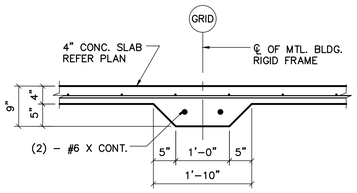

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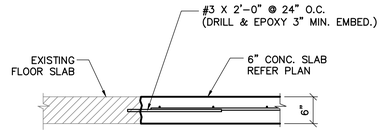

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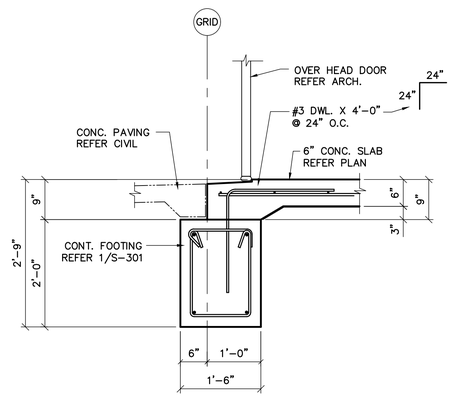

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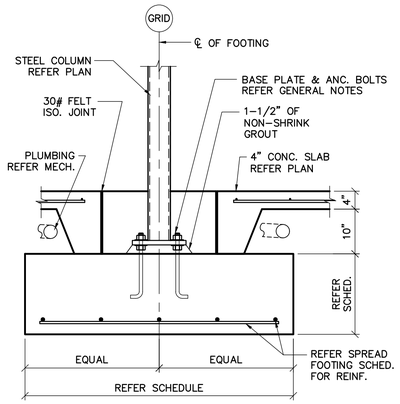

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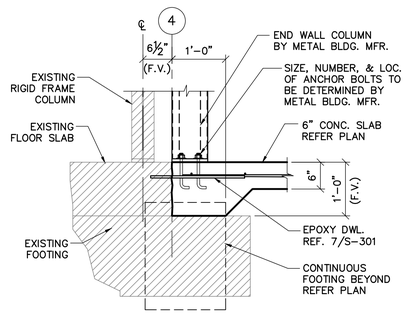

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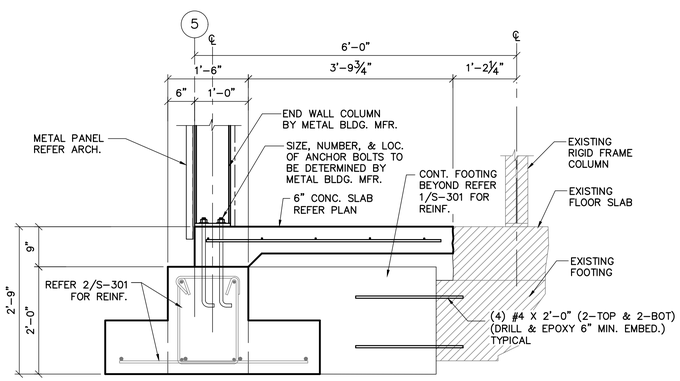

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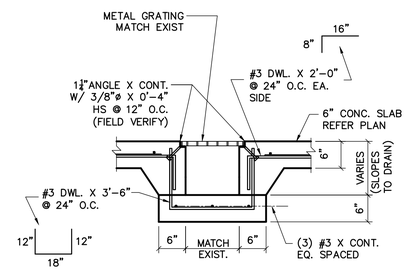

12 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

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HENNESSEY FIRE DEPARTMENT

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501 S. MAIN STREET

HENNESSEY, OKLAHOMA

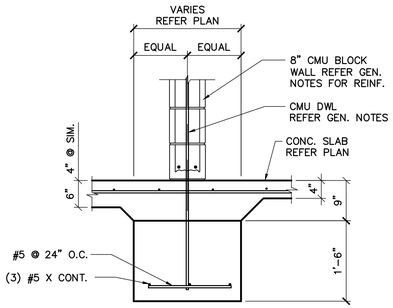
REVISIONS

REV.	DATE	DESCRIPTION

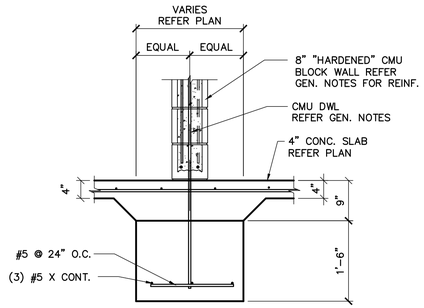
PROJ. MANAGER: NK
DRAWN BY: NK
CHECKED BY: RM

DATE: 08/08/2022
PROJECT NO.: 2111

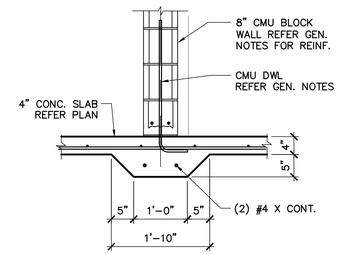
SHEET TITLE: FOUNDATION DETAILS
SHEET NO.: S-301



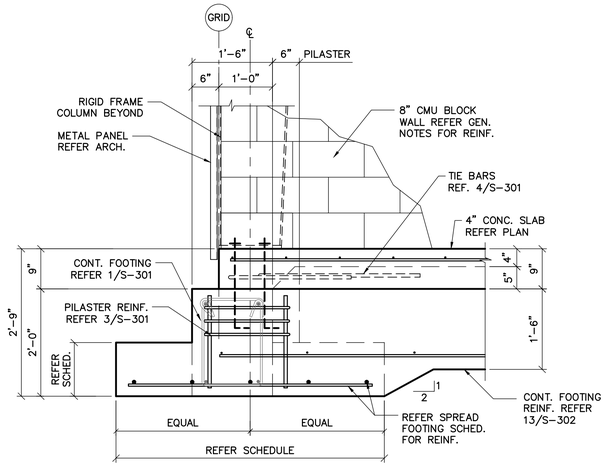
13 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



14 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



15 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



16 FOUNDATION DETAIL
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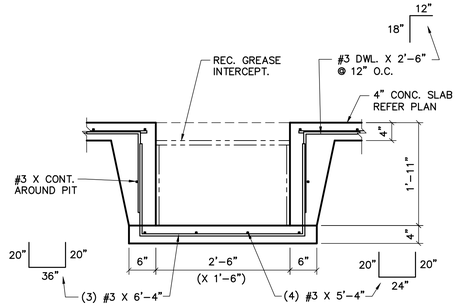

17 FOUNDATION DETAIL
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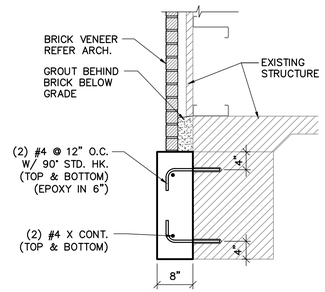

18 ALTERNATE FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

ARCHITECTS IN PARTNERSHIP

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INTERIOR DESIGNERS
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JAMES ALAN HORMAN
18879
OKLAHOMA
OK CERT. OF AUTH. NO. 4530
EXPIRATION 06/30/24
PROJECT NO. 22-027

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

REVISIONS

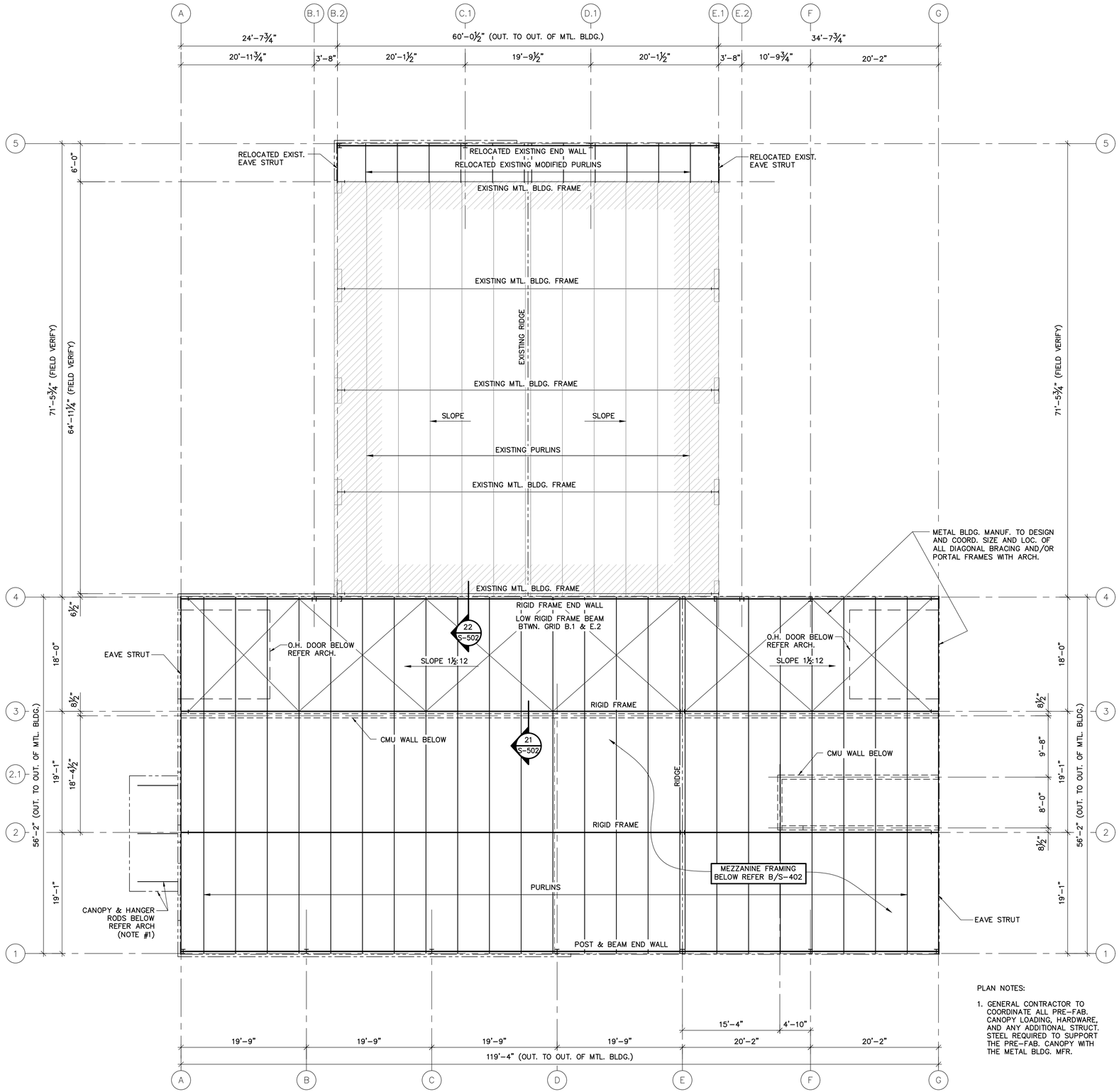
REV.	DATE	DESCRIPTION

PROJ. MANAGER: NK
DRAWN BY: NK
CHECKED BY: RM

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: FOUNDATION DETAILS
SHEET NO.: S-302

Engineering Solutions, LLC
6801 North Broadway, Suite 215
Oklahoma City, OK 73116
Tel. (405) 848-4093



A S-401 ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. GENERAL CONTRACTOR TO COORDINATE ALL PRE-FAB. CANOPY LOADING, HARDWARE, AND ANY ADDITIONAL STRUCT. STEEL REQUIRED TO SUPPORT THE PRE-FAB. CANOPY WITH THE METAL BLDG. MFR.

ARCHITECTS IN PARTNERSHIP

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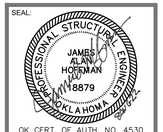
SEAL:



OK CERT. OF AUTH. NO. 4530
EXPIRATION 06/30/24
PROJECT NO. 22-027

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	NK
DRAWN BY:	NK
CHECKED BY:	RM

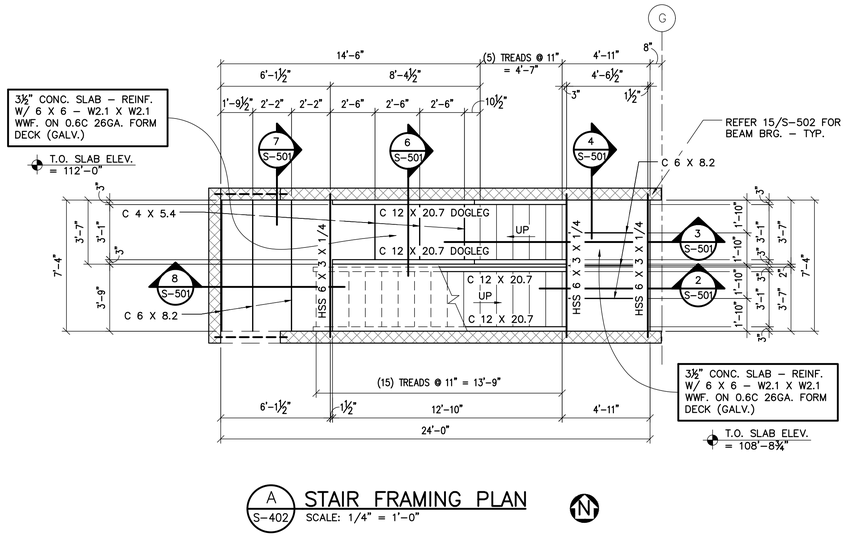
DATE: 08/08/2022

PROJECT NO.: 2111

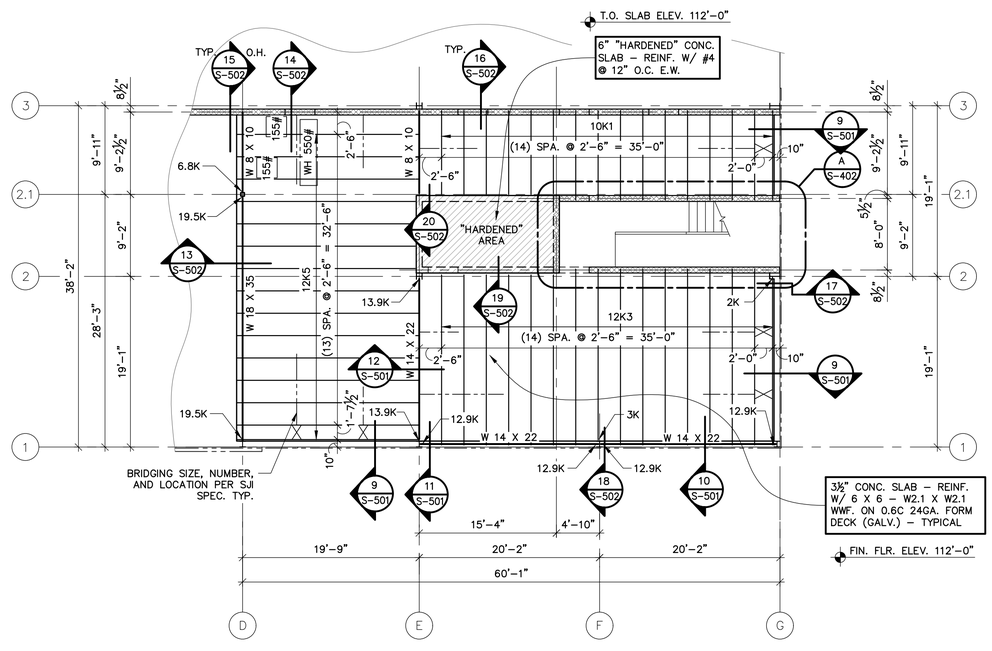
SHEET TITLE: ROOF FRAMING PLAN

SHEET NO.: S-401

Engineering Solutions, LLC
6801 North Broadway, Suite 215
Oklahoma City, OK 73116
Tel. (405) 848-4093



A S-402 STAIR FRAMING PLAN
SCALE: 1/4" = 1'-0"



B S-402 MEZZANINE FRAMING PLAN
SCALE: 1/8" = 1'-0"

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HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	NK
DRAWN BY:	NK
CHECKED BY:	RM
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	STAIR & MEZZ. FRAMING PLAN
SHEET NO.:	S-402

Engineering Solutions, LLC
6801 North Broadway, Suite 215
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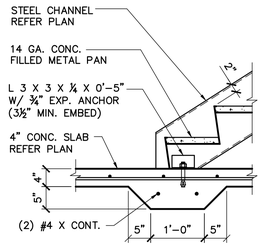

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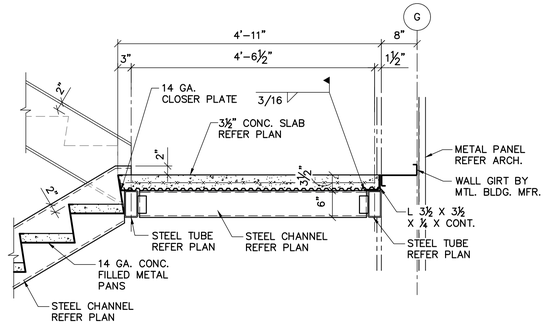
SCALE: 3/4" = 1'-0"



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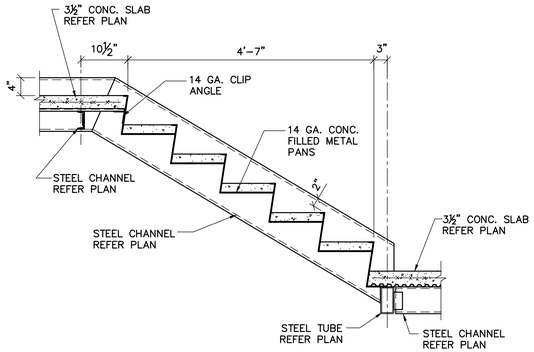

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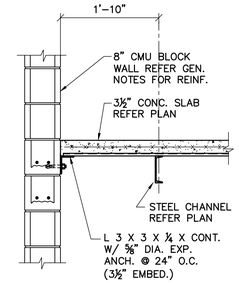
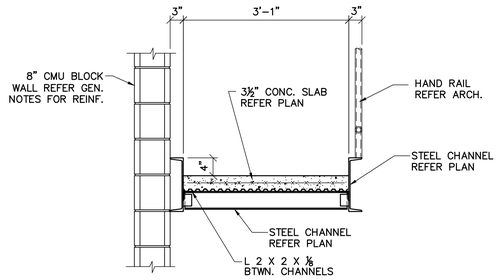


4 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

NOT USED



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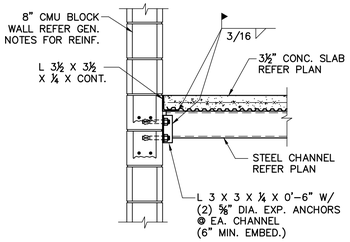

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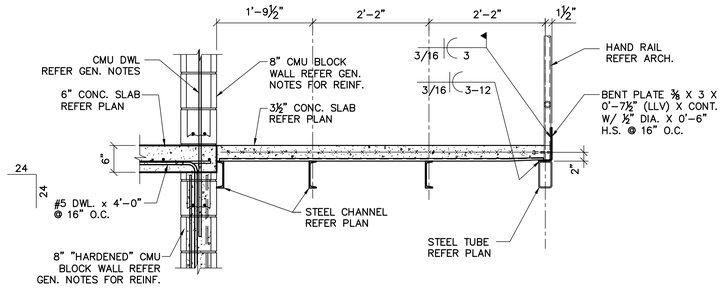
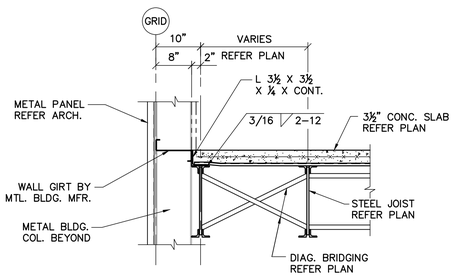
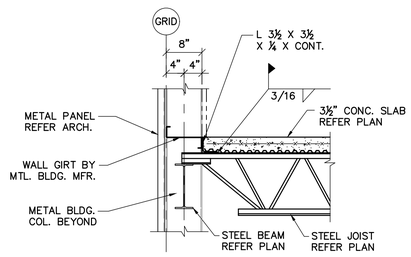


7 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

8 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



9 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



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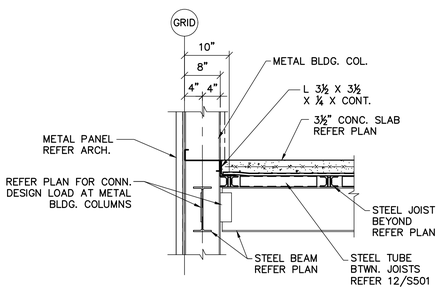

11 FRAMING DETAIL
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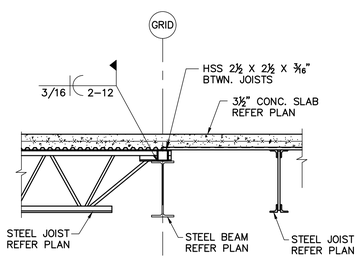

12 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

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ARCHITECTS IN PARTNERSHIP

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EXPIRATION 06/30/24
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HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

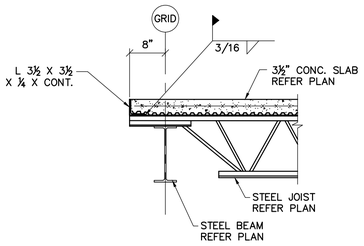
REVISIONS

REV.	DATE	DESCRIPTION

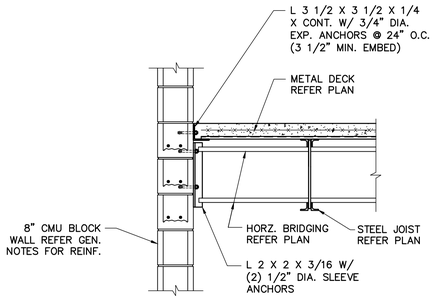
PROJ. MANAGER: NK
DRAWN BY: NK
CHECKED BY: RM

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: FRAMING DETAILS
SHEET NO.: S-501



13 FRAMING DETAIL
SCALE: 3/4" = 1'-0"



14 FRAMING DETAIL
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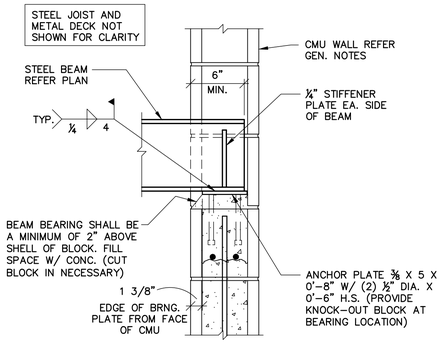
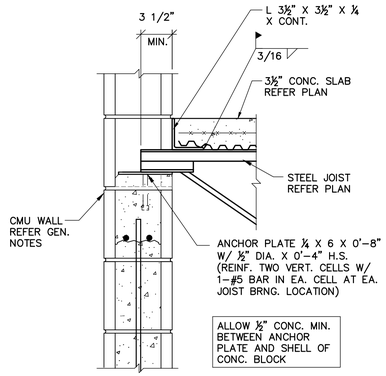


15 FRAMING DETAIL
SCALE: 1 1/2" = 1'-0"



16 FRAMING DETAIL
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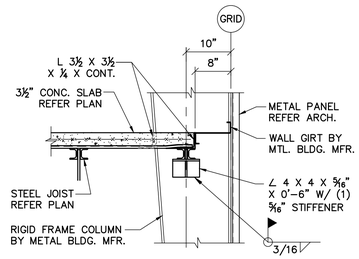

17 FRAMING DETAIL
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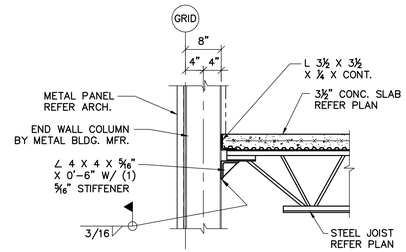

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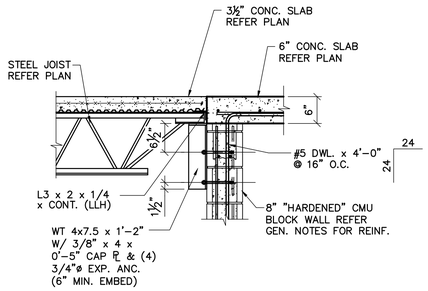

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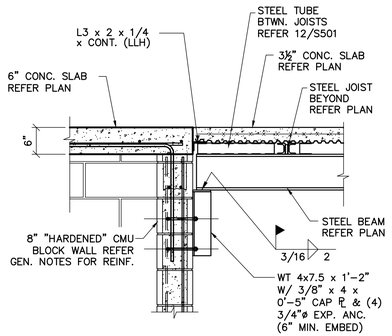

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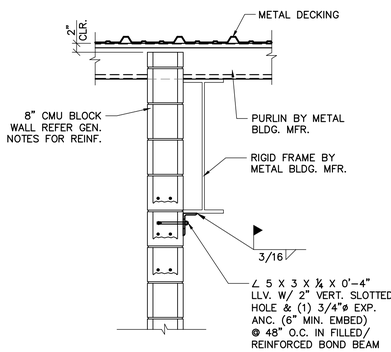

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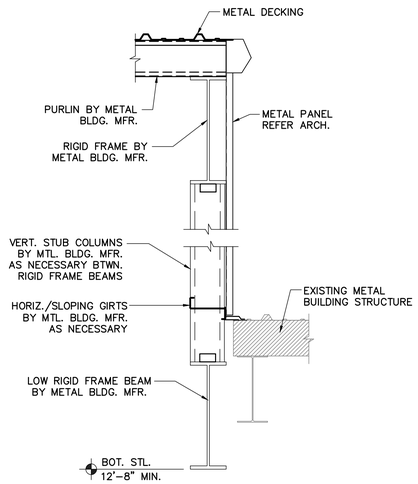

22 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
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SEAL:

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EXPIRATION 06/30/24
PROJECT NO. 22-027

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	NK
DRAWN BY:	NK
CHECKED BY:	RM

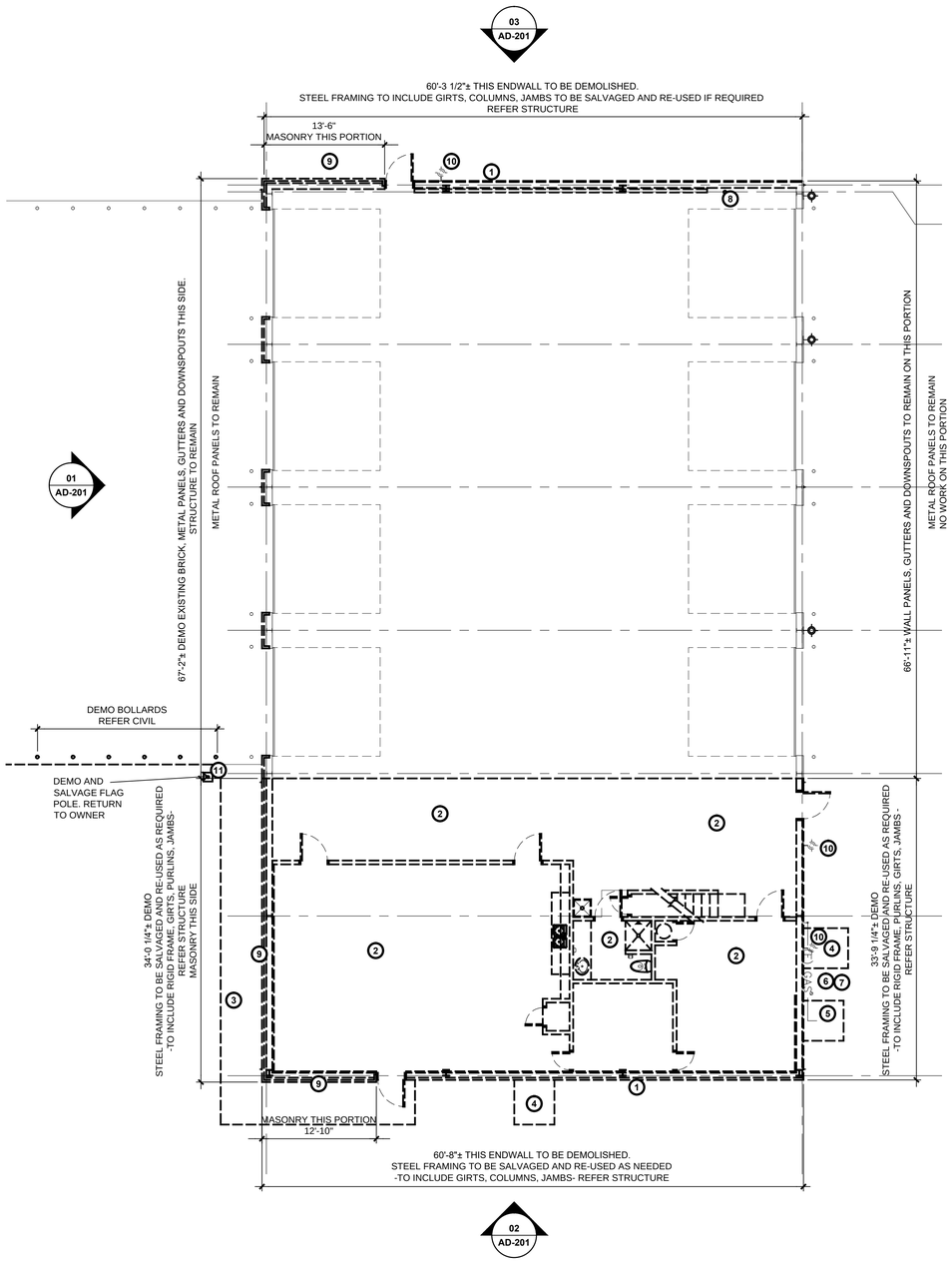
DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: FRAMING DETAILS

SHEET NO.: S-502

Engineering Solutions, LLC
6801 North Broadway, Suite 215
Oklahoma City, OK 73116
Tel. (405) 848-4093



DEMOLITION
MAIN LEVEL FLOOR PLAN

01 SCALE: 1/8"=1'-0"

NORTH

GENERAL NOTES:

1. ALL STEEL TO BE SALVAGED AND RETURNED TO OWNER FOR RE-USE IN NEW ADDITIONS.
2. REFER TO AD-101 FLOOR PLAN FOR MORE DEMOLITION INFORMATION.
3. REFER TO STRUCTURE FOR MORE DEMOLITION INFORMATION.
4. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL FOR MORE DEMOLITION INFORMATION.
5. REFER TO CIVIL FOR MORE DEMOLITION INFORMATION.

DEMOLITION KEY NOTES ⓧ :

1. REMOVE EXISTING END WALL FOR EXPANSION. SALVAGE COLUMNS FOR OWNER TO RE-USE. REFER STRUCTURE.
2. DEMOLISH SLAB AND BUILDING IN THIS AREA. SALVAGE PURLINS AND COLUMNS TO BE USED ON NEW CONSTRUCTION. REFER STRUCTURE.
3. DEMO EXISTING SIDEWALK.
4. DEMO EXISTING A/C UNIT.
5. SALVAGE EXISTING GENEARTOR-RETURN TO OWNER.
6. ELECTRICAL METER TO BE RELOCATED.
7. NATURAL GAS ENTRY TO BE RELOCATED.
8. WATER RISER TO BE RELOCATED.
9. DEMO BRICK FACADE.
10. DEMO EXTERIOR LIGHTS. SALVAGE FLOOD LIGHTS-RETURN TO OWNER.
11. RELOCATE FLAG POLE. REFER NEW SITE PLAN.

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

ARCHITECTS IN PARTNERSHIP

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08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

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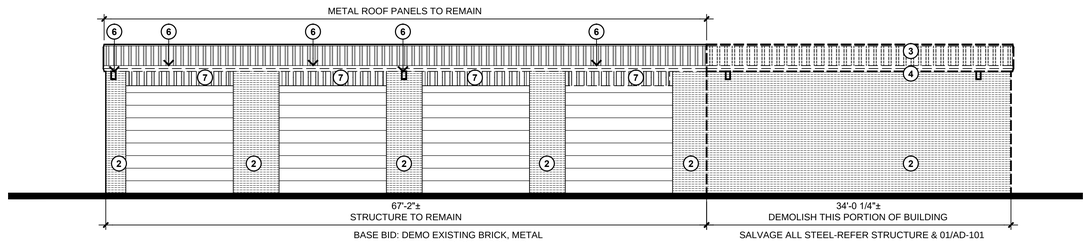
PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

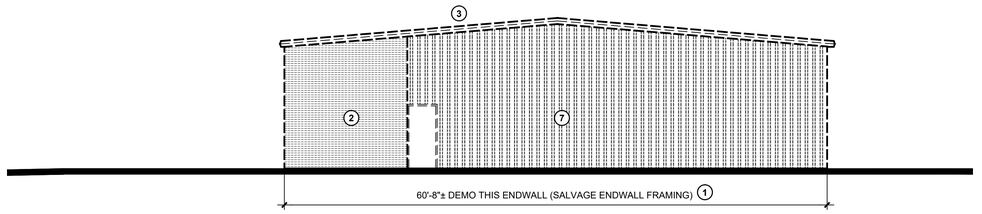
SHEET TITLE: DEMOLITION FLOOR PLAN
SHEET NO.: AD-101

8/8/2022 2:10:54 PM



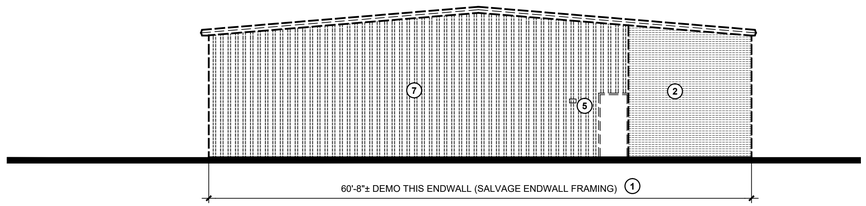
01 DEMO WEST ELEVATION

SCALE: 1/8"=1'-0" 01/AD-101



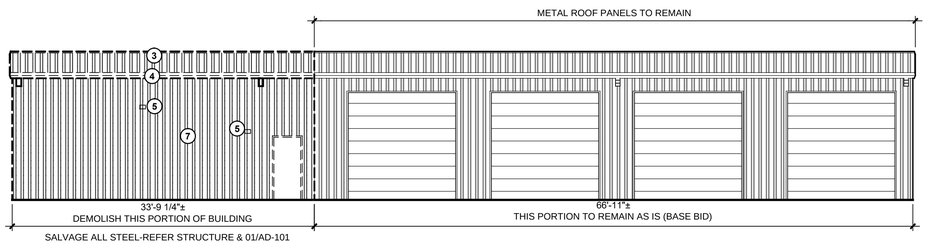
02 DEMO SOUTH ELEVATION

SCALE: 1/8"=1'-0" 01/AD-101



03 DEMO NORTH ELEVATION

SCALE: 1/8"=1'-0" 01/AD-101



04 DEMO EAST ELEVATION

SCALE: 1/8"=1'-0" 01/AD-101

GENERAL NOTES:

1. REFER TO AD-101 FLOOR PLAN FOR MORE DEMOLITION INFORMATION.
2. REFER TO STRUCTURE FOR MORE DEMOLITION INFORMATION.
3. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL FOR MORE DEMOLITION INFORMATION.
4. REFER TO CIVIL FOR MORE DEMOLITION INFORMATION.

DEMOLITION KEY NOTES Ⓧ :

1. REMOVE EXISTING END WALL FOR EXPANSION. SALVAGE COLUMNS FOR OWNER TO RE-USE. REFER STRUCTURE.
2. DEMO BRICK FACADE AND METAL PANELS BEHIND BRICK VENEER.
3. DEMO EXISTING METAL ROOF AT NEW ADDITION. SALVAGE RIGID FRAME AND PURLINS FOR OWNER TO RE-USE AT NEW NORTH ENDWALL. REFER PLAN AD-101.
4. DEMO EXISTING GUTTER AT NEW ADDITION AND DOWNSPOUTS.
5. DEMO EXTERIOR LIGHTS. SALVAGE FLOOD LIGHTS-RETURN TO OWNER.
6. DEMO EXISTING GUTTER AND DOWNSPOUTS THIS SIDE ONLY.
7. DEMO EXISTING METAL WALL PANELS

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

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SEAL:

STATE OF OKLAHOMA
GANG
4780
LICENSED ARCHITECT

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

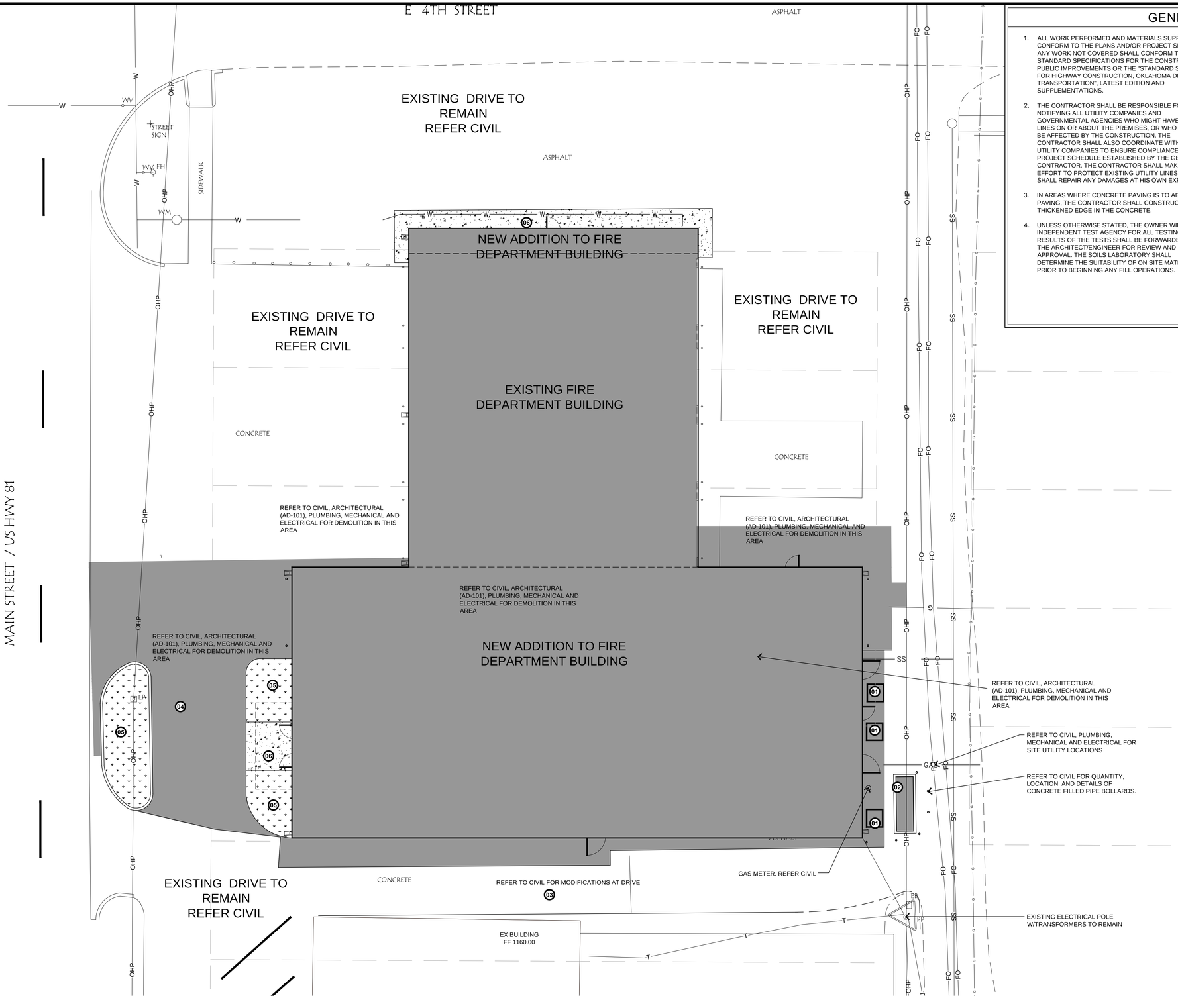
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: DEMOLITION ELEVATIONS

SHEET NO.: AD-201



01 **SITE PLAN**
SCALE: 1"=10'-0"

NORTH

GENERAL SITE PLAN NOTES

1. ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND/OR PROJECT SPECIFICATIONS. ANY WORK NOT COVERED SHALL CONFORM TO THE CITY'S STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF PUBLIC IMPROVEMENTS OR THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, OKLAHOMA DEPARTMENT OF TRANSPORTATION", LATEST EDITION AND SUPPLEMENTATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ABOUT THE PREMISES, OR WHO MIGHT BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE WITH THE UTILITY COMPANIES TO ENSURE COMPLIANCE TO THE PROJECT SCHEDULE ESTABLISHED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING UTILITY LINES AND SHALL REPAIR ANY DAMAGES AT HIS OWN EXPENSE.
3. IN AREAS WHERE CONCRETE PAVING IS TO ABUT EXISTING PAVING, THE CONTRACTOR SHALL CONSTRUCT A 10" THICKENED EDGE IN THE CONCRETE.
4. UNLESS OTHERWISE STATED, THE OWNER WILL HIRE INDEPENDENT TEST AGENCY FOR ALL TESTING. THE RESULTS OF THE TESTS SHALL BE FORWARDED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL. THE SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF ON SITE MATERIAL PRIOR TO BEGINNING ANY FILL OPERATIONS.
5. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR BACKFILLING BEHIND CURBS AND ALL AREAS TO BE LANDSCAPED WITH A MINIMUM 4" DEPTH OF TOPSOIL
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING AND MAINTAINING BARRICADES AND OTHER TRAFFIC CONTROL DEVICES AS NECESSARY AROUND THE PERIMETER.
7. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIDEWALKS AND ACCESSIBLE RAMPS ARE IN COMPLIANCE WITH THE ADAAG REGULATIONS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DESIGN INFORMATION AND ADAAG REGULATIONS PRIOR TO CONSTRUCTION.
8. REFER TO CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DWGS FOR ALL SITE UTILITY CONNECTIONS
9. PROVIDE SECURITY FENCING AROUND ALL CONSTRUCTION OPERATION AND STORAGE AREAS.
10. WATER SHOULD NOT BE ALLOWED TO COLLECT NEAR THE FOUNDATION OR FLOOR SLAB AREA OF THE BUILDING OR PAVEMENT EITHER DURING OR AFTER CONSTRUCTION UNDERCUT OR EXCAVATED AREAS SHOULD BE SLOPED TOWARD ONE CORNER TO FACILITATE REMOVAL OF ANY COLLECTED RAINWATER, GROUNDWATER, OR SURFACE RUNOFF. ALL GRADES SHALL BE SLOPED AWAY FROM THE BUILDING AND SURFACE DRAINAGE SHALL BE COLLECTED AND DISCHARGED SUCH THAT WATER IS NOT TO INFILTRATE THE BACKFILL OF THE BUILDING.
11. SIDEWALKS SHALL NOT EXCEED A MAXIMUM SLOPE OF 1/20 IN THE DIRECTION OF TRAVEL, CROSS SLOPE SHALL NOT EXCEED 1/50

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

GENERAL NOTES :

1. REFER TO CIVIL FOR SITE DEMOLITION.
2. REFER TO CIVIL FOR EXTENTS OF NEW SITE WORK. SIDEWALKS, CURBS, PAVING, ETC.
3. REFER TO ARCHITECTURE AD-101 AND AD-201 FOR BUILDING DEMOLITION.

SITE PLAN KEY NOTES (X) :

1. NEW CONDENSERS-REFER MECHANICAL
2. NEW GENERATOR-REFER ELECTRICAL
3. EXISTING DRIVES-REFER CIVIL FOR ANY MODIFICATIONS REQUIRED
4. NEW DRIVE WITH CURBS-REFER CIVIL
5. NEW SOD AREAS. REFER CIVIL
6. NEW SIDEWALKS-REFER CIVIL

ARCHITECTS IN PARTNERSHIP

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INTERIOR DESIGNERS
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SEAL:

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GANG
4780
LICENSED ARCHITECT

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

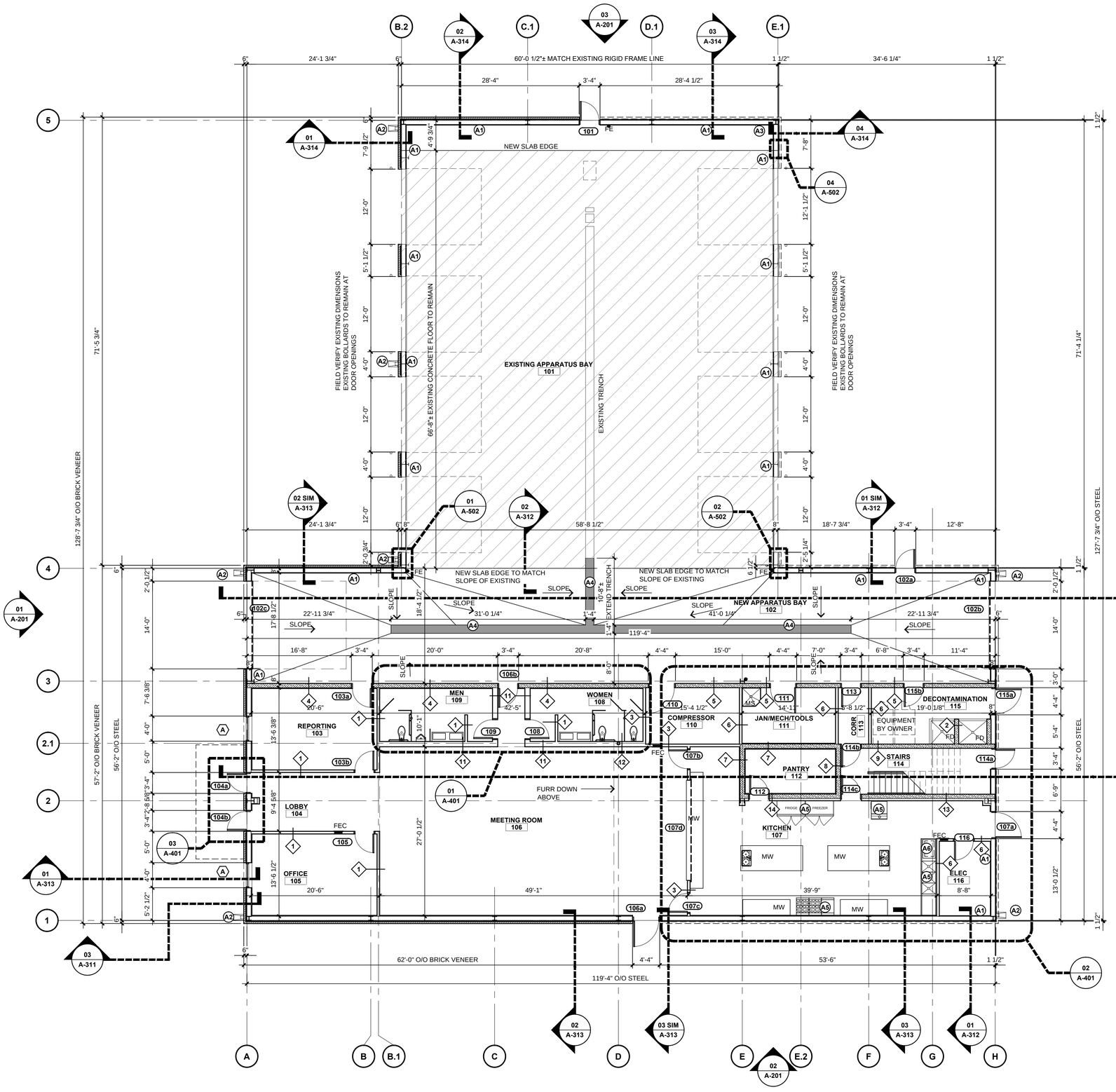
REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: SITE PLAN
SHEET NO.: A-001



01 **MAIN LEVEL FLOOR PLAN**
SCALE: 1/8"=1'-0"

NORTH

NEW CONSTRUCTION KEY NOTES ⓧ :

A1. PRE-FINISHED METAL LINER PANEL
A2. PRE-FINISHED METAL DOWNSPOUT WITH CONC. SPLASH BLOCK.
A3. RELOCATED WATER RISER. REFER PLUMBING
A4. EXTEND EXISTING TRENCH AT APPARATUS BAY 102. MAINTAIN POSITIVE DRAINAGE WITH EXISTING TRENCH. REFER STRUCTURE AND PLUMBING.
A5. KITCHEN EQUIPMENT OWNER FURNISHED AND CONTRACTOR TO INSTALL.
A6. GREASE INTERCEPTOR W/ ACCESS PANEL RECESSED IN FLOOR. REFER PLUMBING, STRUCTURE AND 02/A-401.

PLAN LEGEND:

DS	DOWNSPOUT, REFER PLUMBING
FD	FLOOR DRAIN - REF: PLUMBING
FEC	FIRE EXTINGUISHER CABINET
MS	MOP SINK - REF: PLUMBING
MW	BUILT-IN MILLWORK
	METAL STUD WALL
	CMU WALL
	BRICK-ALTERNATE #3.
	NEW FACE BRICK VENEER
	EXISTING BUILDING SLAB TO REMAIN

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

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HENNESSEY, OKLAHOMA

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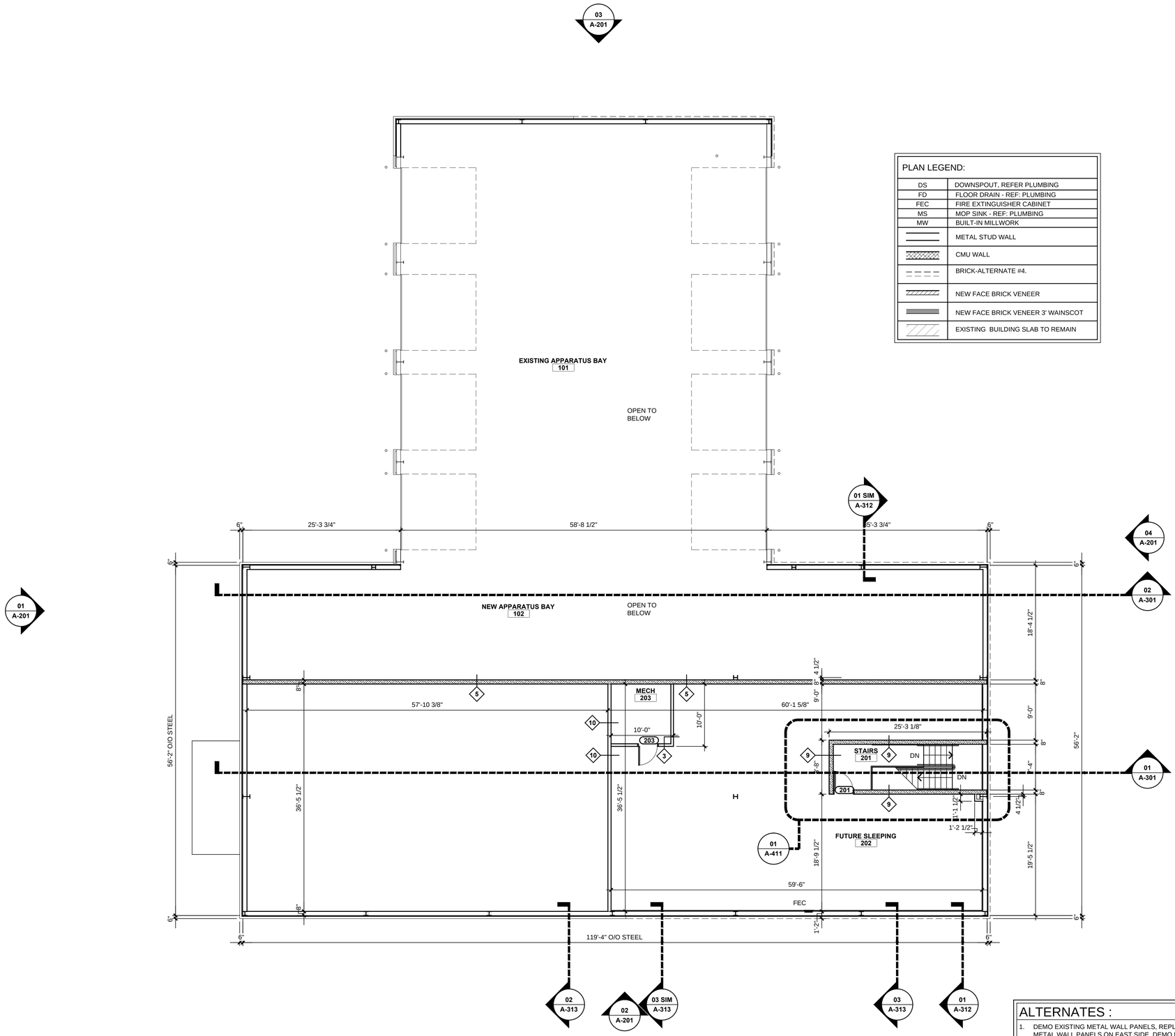
PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: MAIN LEVEL FLOOR PLAN
SHEET NO.: A-101



PLAN LEGEND:	
DS	DOWNSPOUT, REFER PLUMBING
FD	FLOOR DRAIN - REF: PLUMBING
FEC	FIRE EXTINGUISHER CABINET
MS	MOP SINK - REF: PLUMBING
MW	BUILT-IN MILLWORK
	METAL STUD WALL
	CMU WALL
	BRICK-ALTERNATE #4.
	NEW FACE BRICK VENEER
	NEW FACE BRICK VENEER 3' WAINSCOT
	EXISTING BUILDING SLAB TO REMAIN

01 SECOND LEVEL FLOOR PLAN

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

NORTH

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

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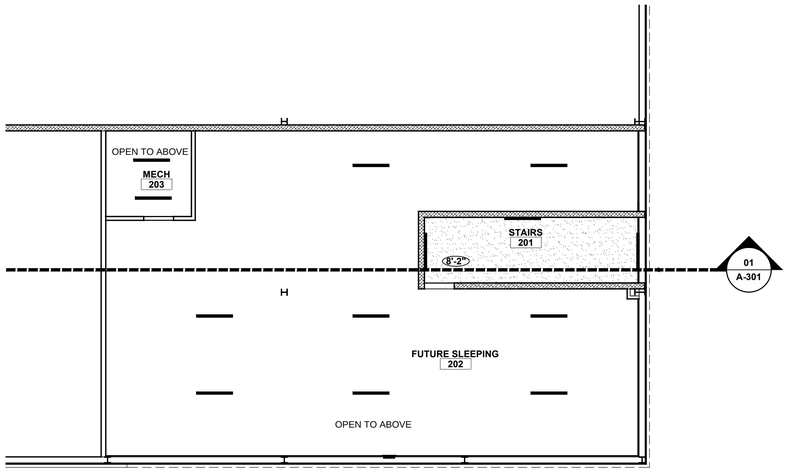
DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: SECOND LEVEL FLOOR PLAN
SHEET NO.: A-102



02 UPPER LEVEL CEILING PLAN

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

NORTH

CEILING LEGEND:	
	2'-0" x 2'-0" ACOUSTICAL CEILING TILE AND GRID (ACT-1, ACG-1) - REF: SPECIFICATIONS
	MOISTURE RESISTANT GYP. BD. CEILING
	2'-0" x 2'-0" ACOUSTICAL VINYL FACED CEILING TILE AND GRID (ACT-2, ACG-1) - REF: SPECIFICATIONS
	CONCRETE LID. REFER STRUCTURE
	SUPPLY DIFFUSER - REF: MECHANICAL
	RETURN GRILLE - REF: MECHANICAL
	RECESSED DOWN LIGHT FIXTURE - REF: ELECTRICAL
	2'-0" x 2'-0" LIGHT FIXTURE (SURFACE MOUNT TYPE AT GYP. BD. CEILINGS) - REF: ELECTRICAL
	2'-0" x 2'-0" EMERGENCY LIGHT FIXTURE (SURFACE MOUNT TYPE AT GYP. BD. CEILINGS) - REF: ELECTRICAL
	LED WALL PACK - REF: ELECTRICAL
	EXIT LIGHT - REF: ELECTRICAL
	WALL MOUNTED VANITY LIGHT - REF: ELECTRICAL
	HI-BAY - REF: ELECTRICAL

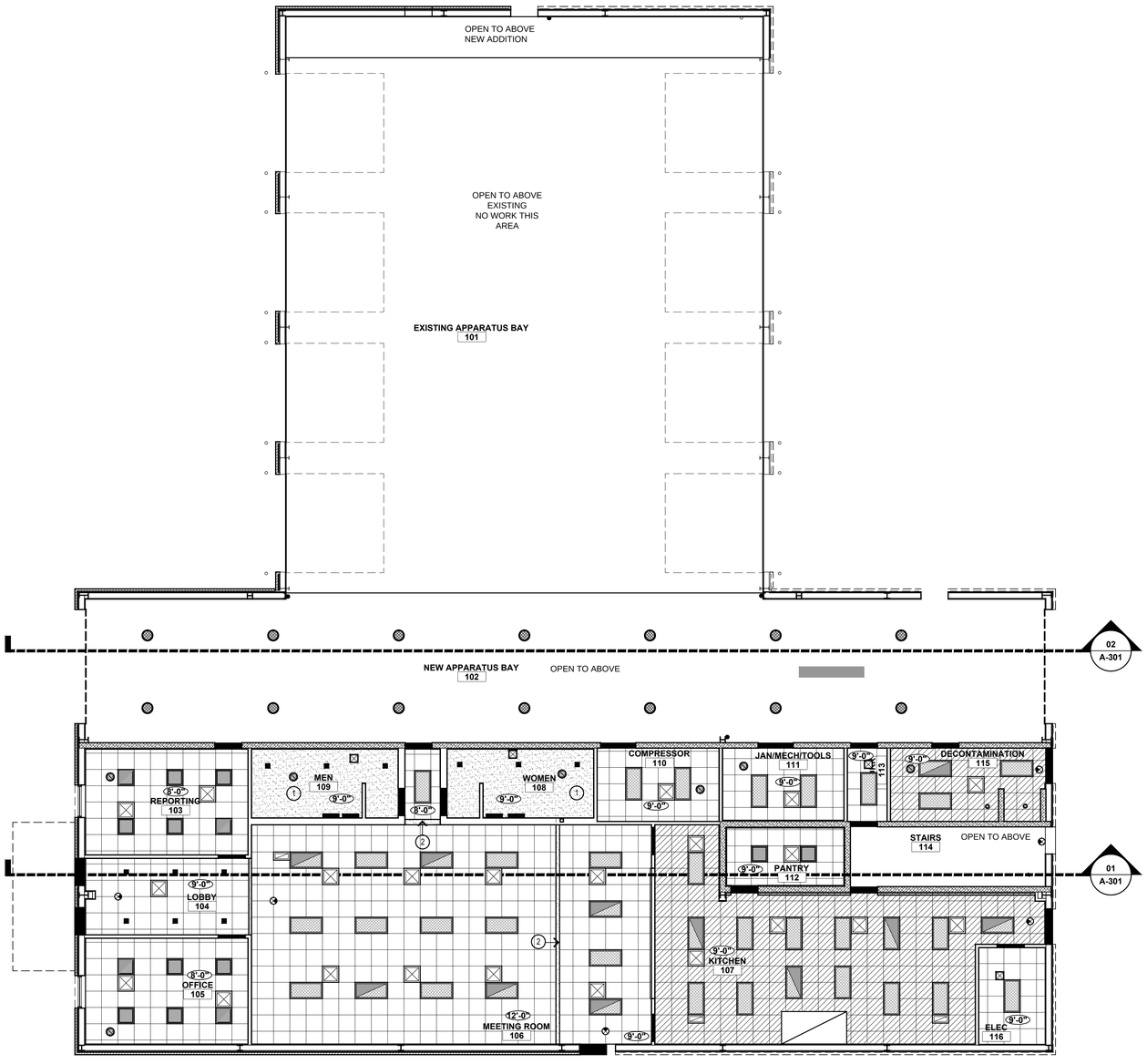
CEILING KEY NOTES:	
1	TO BE PAINTED PT-3
2	TO BE PAINTED PT-2
3	

CEILING NOTES:

1. CEILING HEIGHT IS 9'-0" AFF, UNO.
2. ALL DIMENSIONS TO BE SITE VERIFIED
3. SEE A-101 FOR ROOM DIMENSIONS
4. SEE A-160 FOR FINISH AND COLOR SCHEDULES.

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.



01 MAIN LEVEL CEILING PLAN

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

NORTH

ARCHITECTS IN PARTNERSHIP

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HENNESSEY, OKLAHOMA

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DATE: 08/08/2022
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SHEET TITLE: CEILING PLANS

SHEET NO.: A-111

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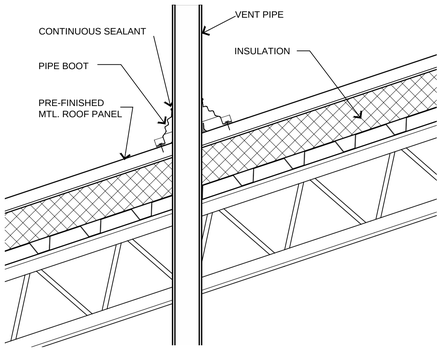
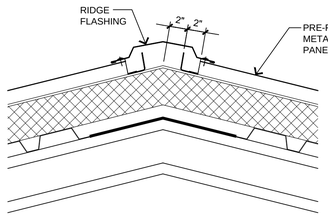
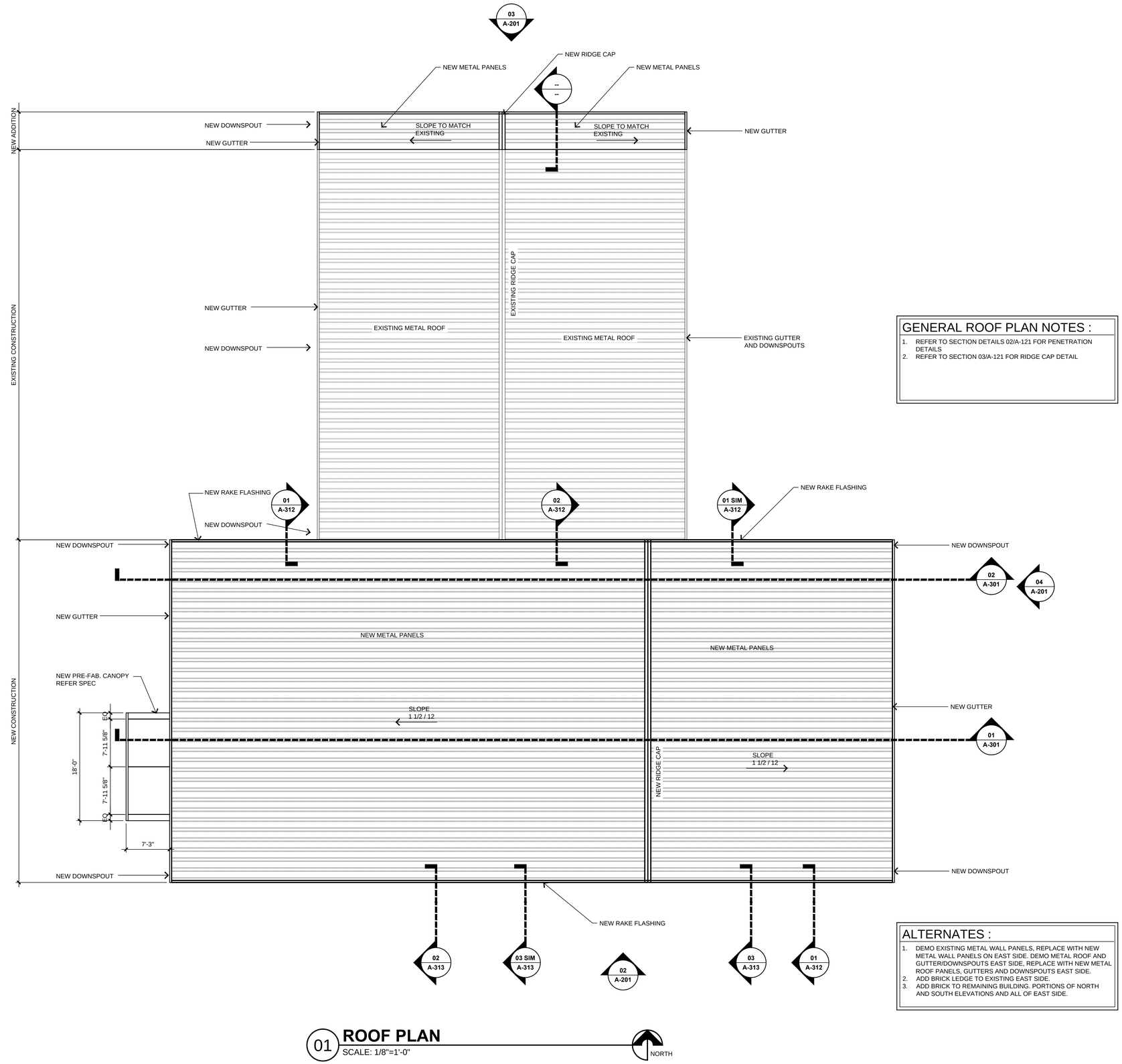


02 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



03 SECTION DETAIL
SCALE: 1 1/2"=1'-0"



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

NORTH

GENERAL ROOF PLAN NOTES :

1. REFER TO SECTION DETAILS 02/A-121 FOR PENETRATION DETAILS
2. REFER TO SECTION 03/A-121 FOR RIDGE CAP DETAIL

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.

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PROJ. MANAGER:	GL
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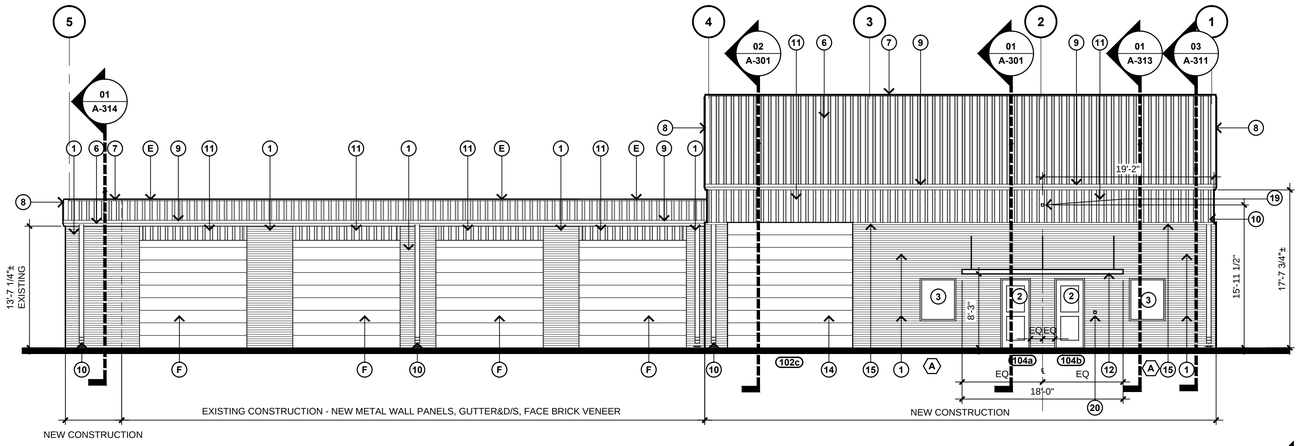
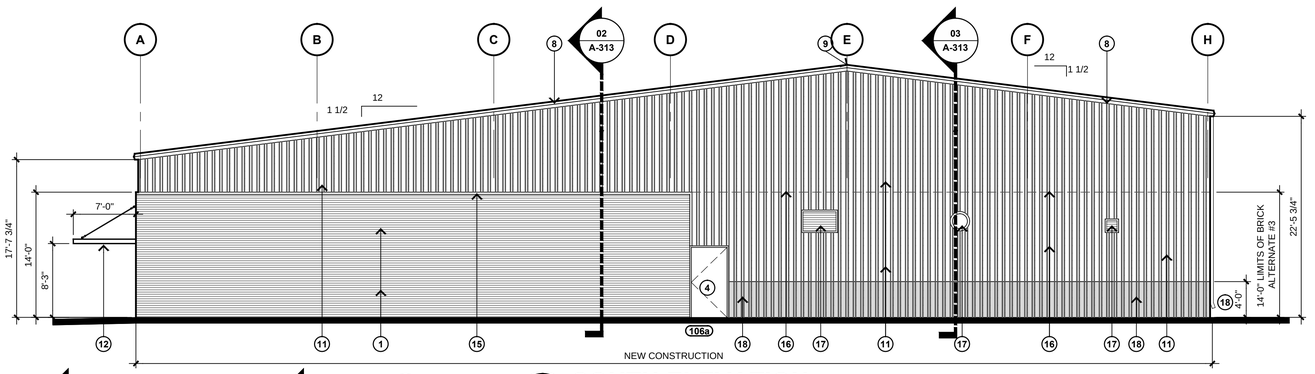
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	ROOF PLAN
SHEET NO.:	A-121



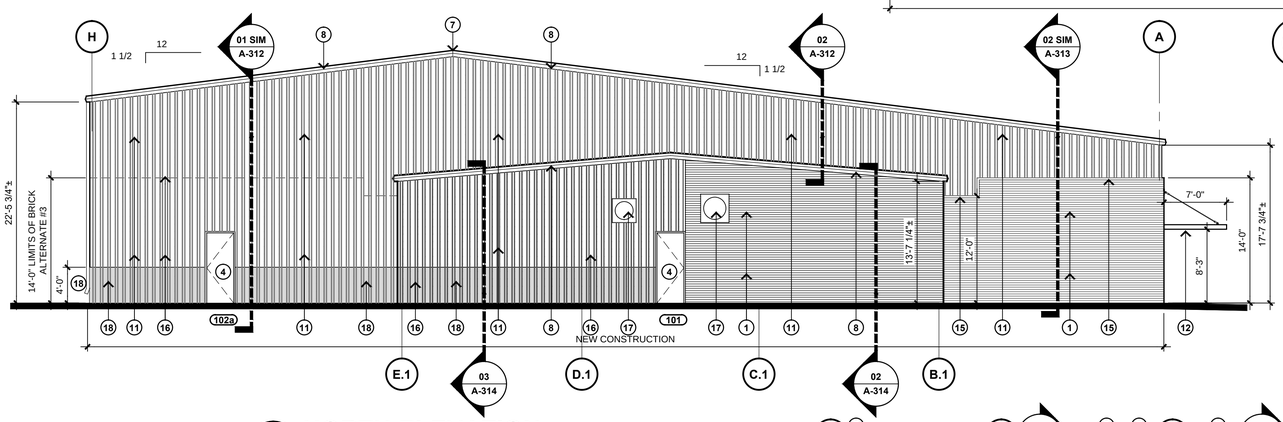
01 WEST ELEVATION

SCALE: 1/8"=1'-0" 01/A-301



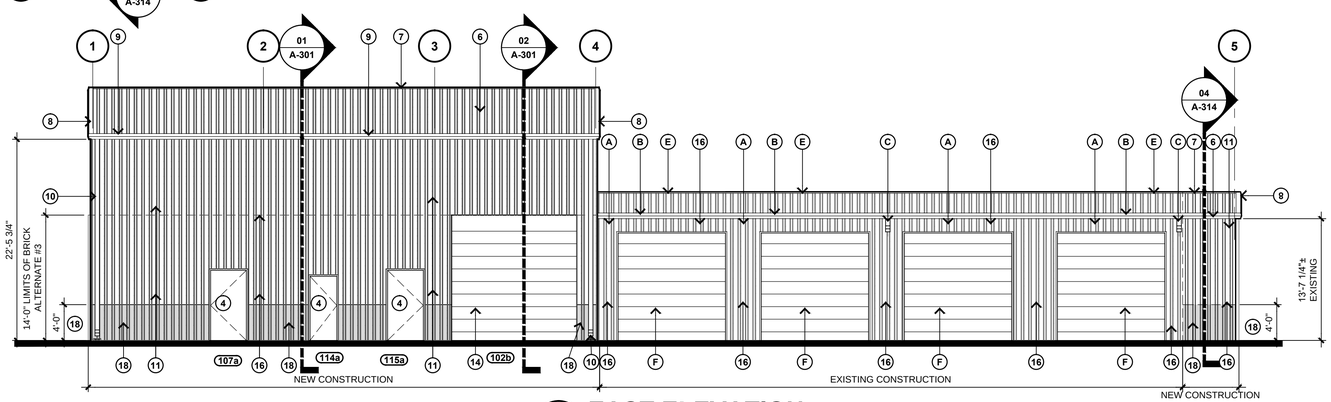
02 SOUTH ELEVATION

SCALE: 1/8"=1'-0" 01/A-301



03 NORTH ELEVATION

SCALE: 1/8"=1'-0" 01/A-301



04 EAST ELEVATION

SCALE: 1/8"=1'-0" 01/A-301

NEW CONSTRUCTION ELEVATION KEY NOTES ⓧ :

1. MODULAR KING SIZE FACE BRICK VENEER. RUNNING BOND. COLOR TO MATCH EXISTING.
2. GLAZED ALUMINUM STOREFRONT SYSTEM
3. ALUMINUM FIXED WINDOW
4. HOLLOW METAL DOOR & FRAME.
5. MASONRY CONTROL JOINT.
6. PRE-FINISHED METAL ROOF REFER SPEC FOR TYPE, MATCH EXISTING COLOR.
7. PRE-FINISHED METAL ROOF RIDGE CAP.
8. PRE-FINISHED RAKE FLASHING.
9. PRE-FINISHED METAL GUTTER.
10. PRE-FINISHED METAL DOWNSPOUT WITH CONC. SPLASH BLOCK.
11. PRE-FINISHED METAL WALL PANELS. COLOR TO MATCH EXISTING METAL WALL PANELS. COLOR 1
12. PREFABRICATED CANOPY, 7'-0" x 18'-0". REFER SPECS
13. EXPANSION JOINT.
14. NEW OVERHEAD DOOR.
15. PRE-FINISHED METAL FLASHING 14 GA. COLOR TO MATCH PANEL.
16. ALTERNATE # 3 BRICK LIMITS AND/OR LOCATIONS
17. LOUVERS/VENTS REFER MECHANICAL
18. PRE-FINISHED WAINSCOT METAL WALL PANELS COLOR 2. COLOR 2 TO BE SELECTED BY OWNER/ARCHITECT.
19. JUNCTION BOX FOR FUTURE SIGNAGE.
20. JUNCTION BOX FOR FUTURE DOORBELL.

EXISTING ELEVATION KEY NOTES ⓧ :

A. EXISTING METAL WALL PANELS. REFER ALTERNATE #1 FOR REPLACEMENT NOTES
B. EXISTING PRE-FINISHED GUTTER. REFER ALTERNATE #1 FOR REPLACEMENT NOTES
C. EXISTING PRE-FINISHED DOWNSPOUT. REFER ALTERNATE #1 FOR REPLACEMENT NOTES
D. EXISTING BRICK
E. EXISTING METAL ROOF PANELS. REFER ALTERNATE #1 FOR REPLACEMENT NOTES
F. EXISTING OVERHEAD DOOR TO REMAIN.

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
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ARCHITECTS IN PARTNERSHIP

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SEAL:

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HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
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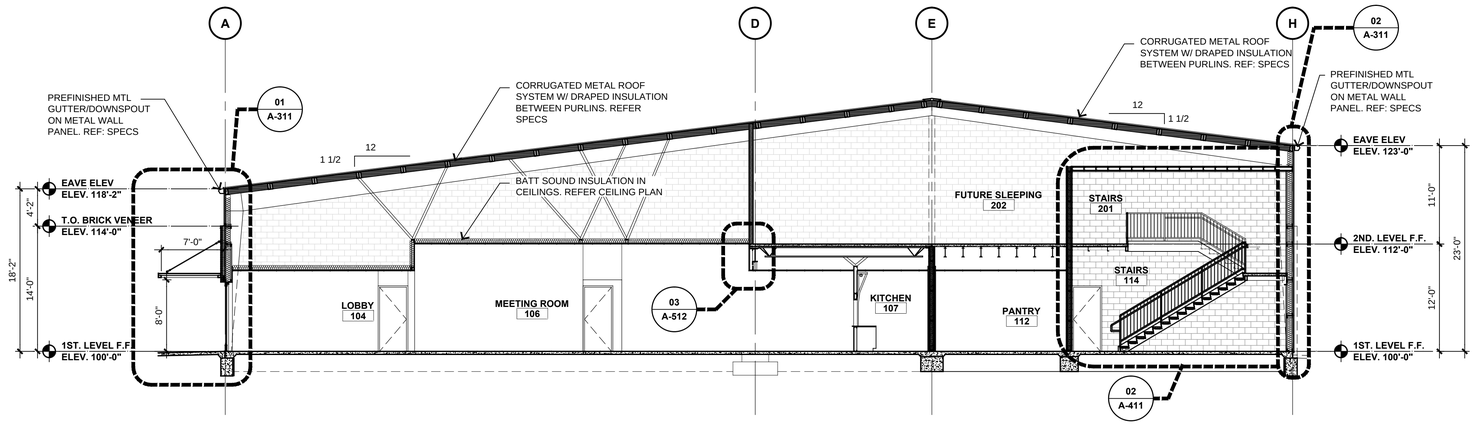
DATE: 08/08/2022
PROJECT NO.: 2111

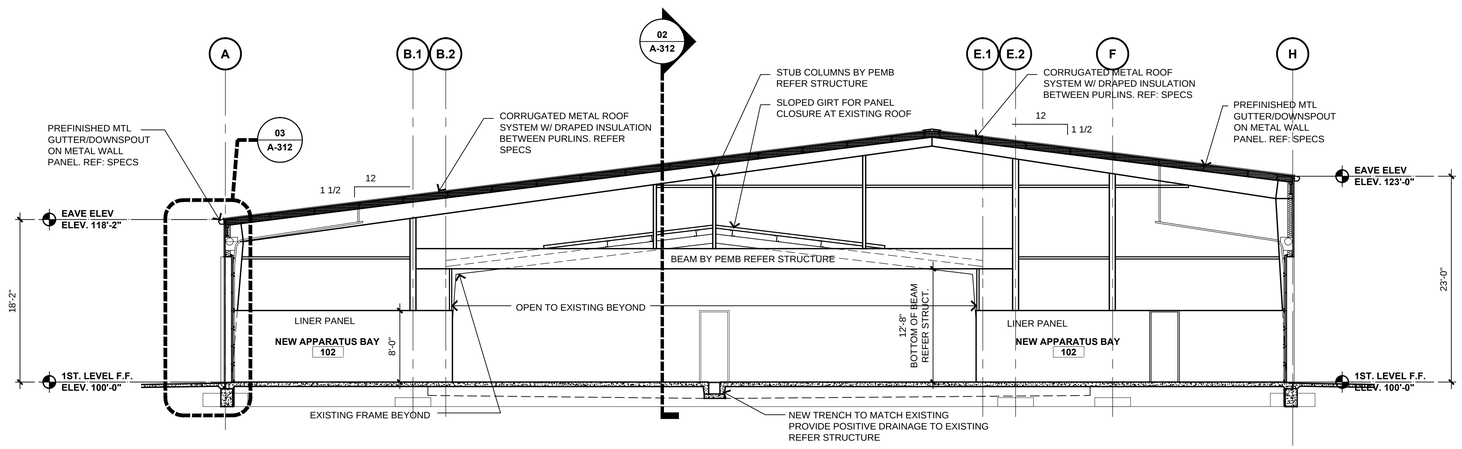
SHEET TITLE: ELEVATIONS

SHEET NO.: A-201



01 BUILDING SECTION

SCALE: 1/8"=1'-0" 01/A-101



02 BUILDING SECTION

SCALE: 1/8"=1'-0" 01/A-101

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
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REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
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CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: BUILDING SECTION

SHEET NO.: A-301

8/8/2022 2:06:19 PM

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
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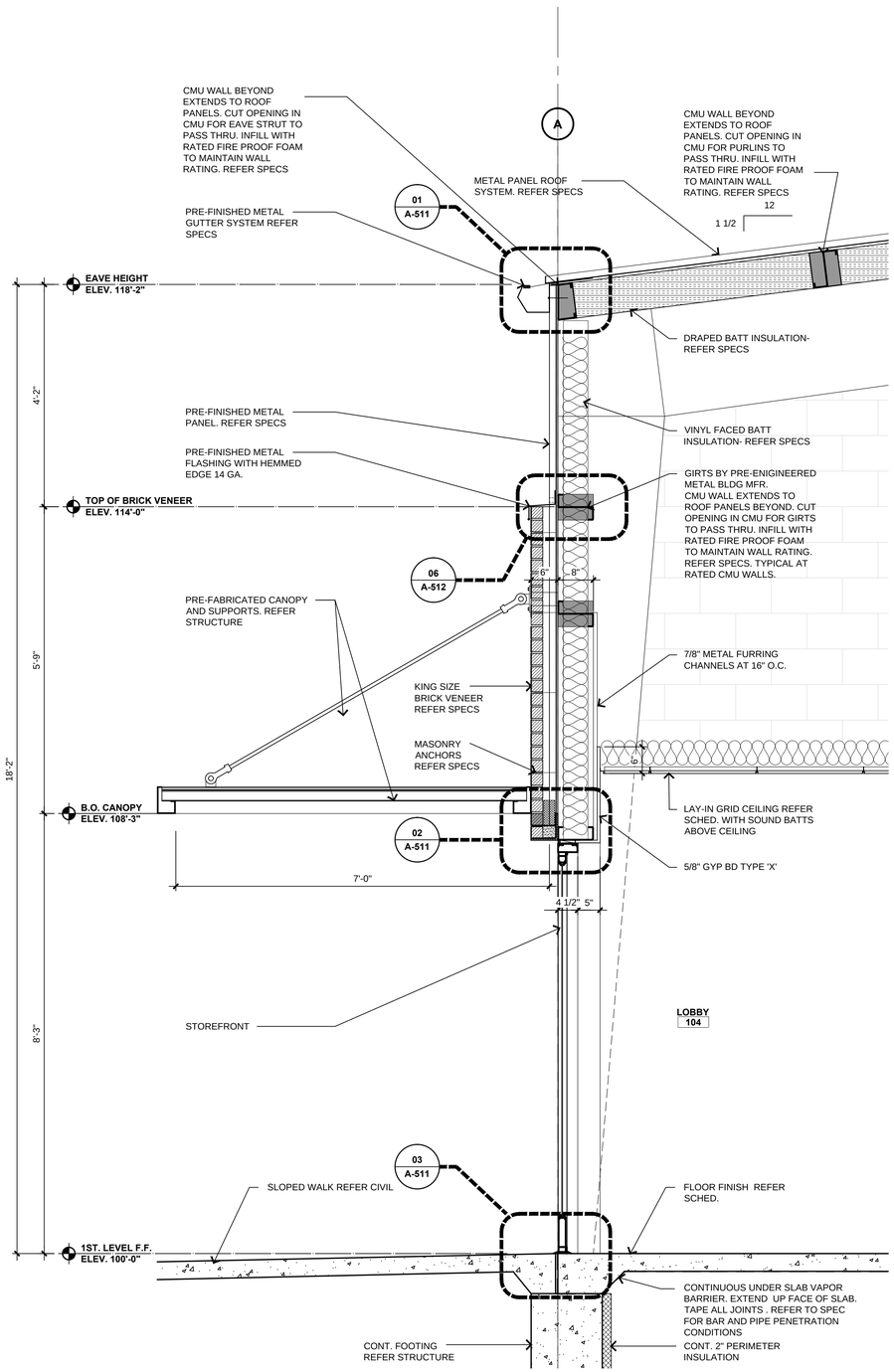
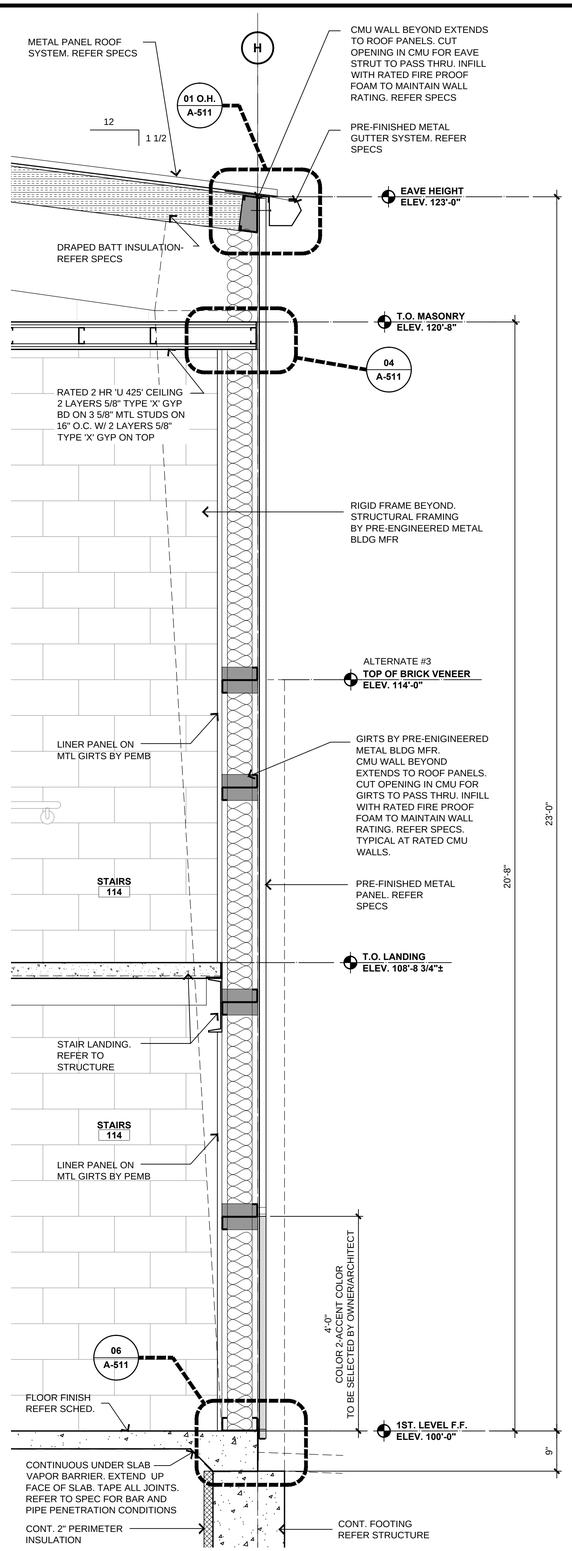


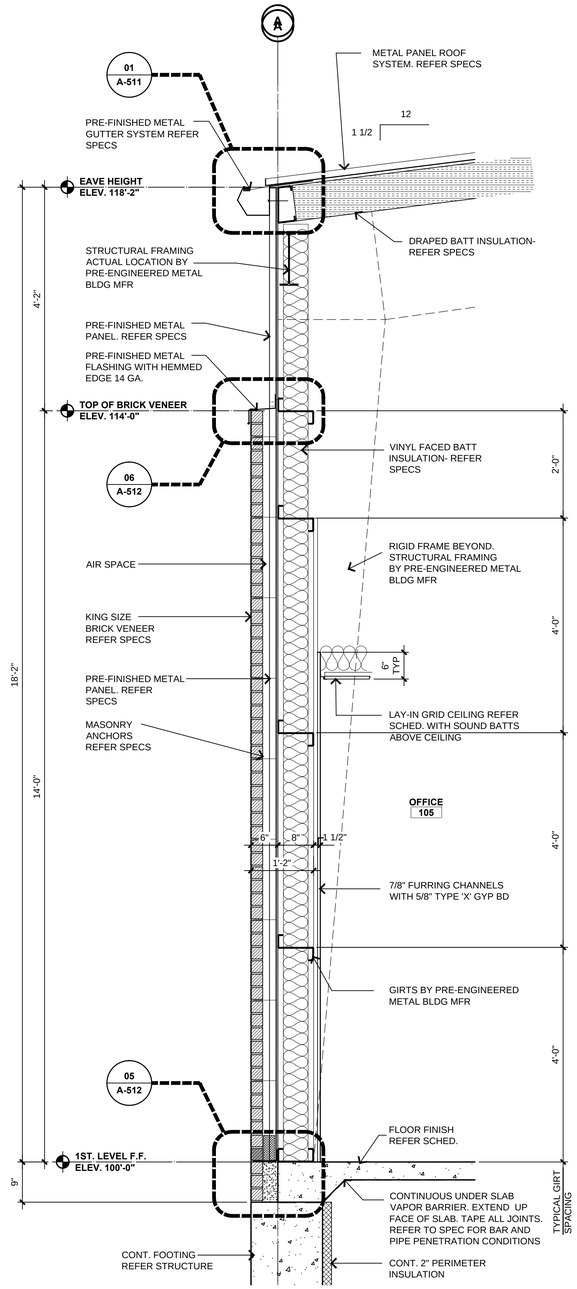
01 WALL SECTION

SCALE: 3/4"=1'-0" 01/A-301



02 WALL SECTION

SCALE: 3/4"=1'-0" 01/A-301



03 WALL SECTION

SCALE: 3/4"=1'-0" 01/A-101

ARCHITECTS IN PARTNERSHIP

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REVISIONS

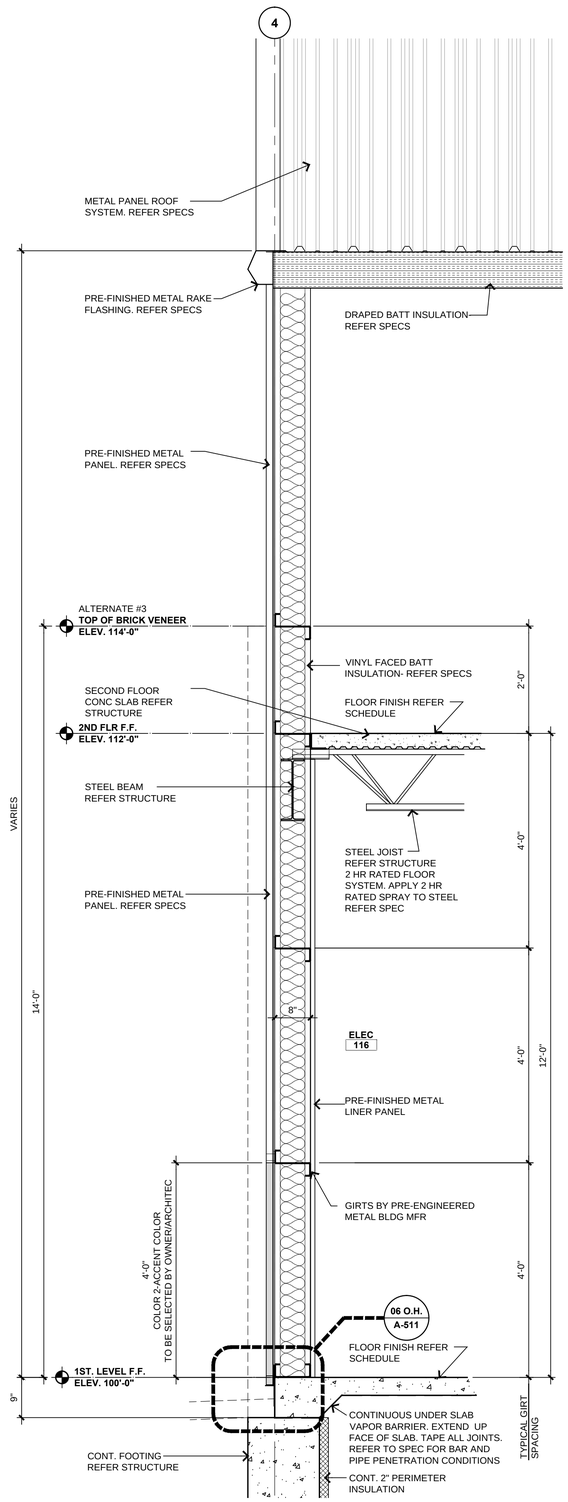
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

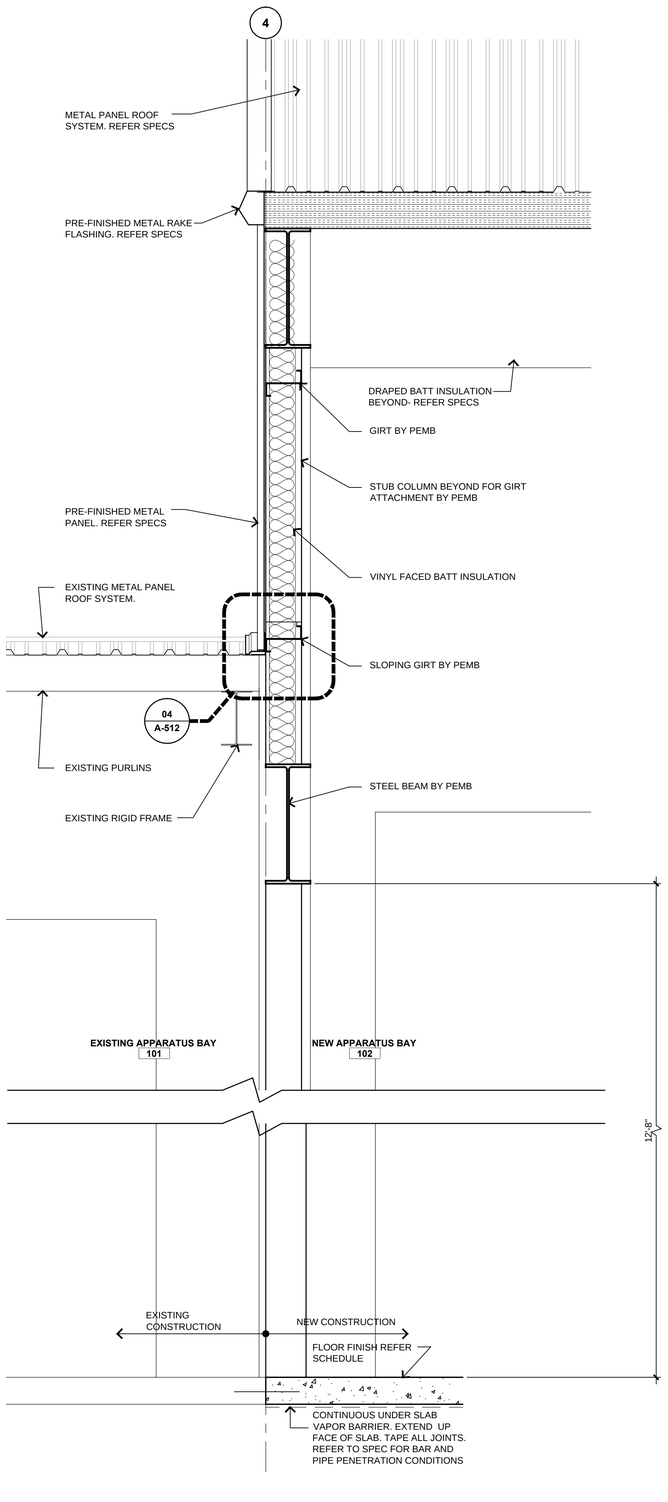
SHEET TITLE: WALL SECTIONS
SHEET NO.: A-311

8/8/2022 2:06:35 PM



01 WALL SECTION

SCALE: 3/4"=1'-0" 01/A-101

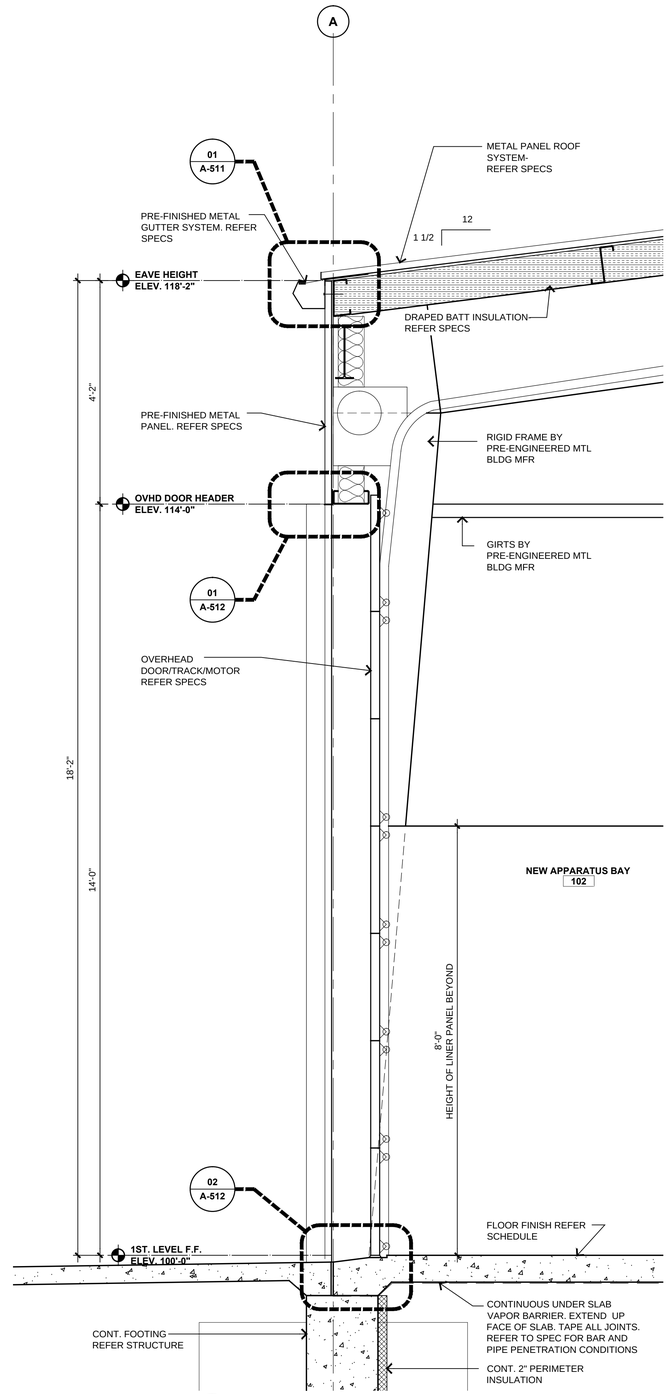


02 WALL SECTION

SCALE: 3/4"=1'-0" 02/A-301

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
3. ADD BRICK TO REMAINING BUILDING. PORTIONS OF NORTH AND SOUTH ELEVATIONS AND ALL OF EAST SIDE.



03 WALL SECTION

SCALE: 3/4"=1'-0" 02/A-301

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

3220 MARSHALL AVENUE
NORMAN, OK 73072
TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: WALL SECTIONS

SHEET NO.: A-312

8/8/2022 2:06:49 PM

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
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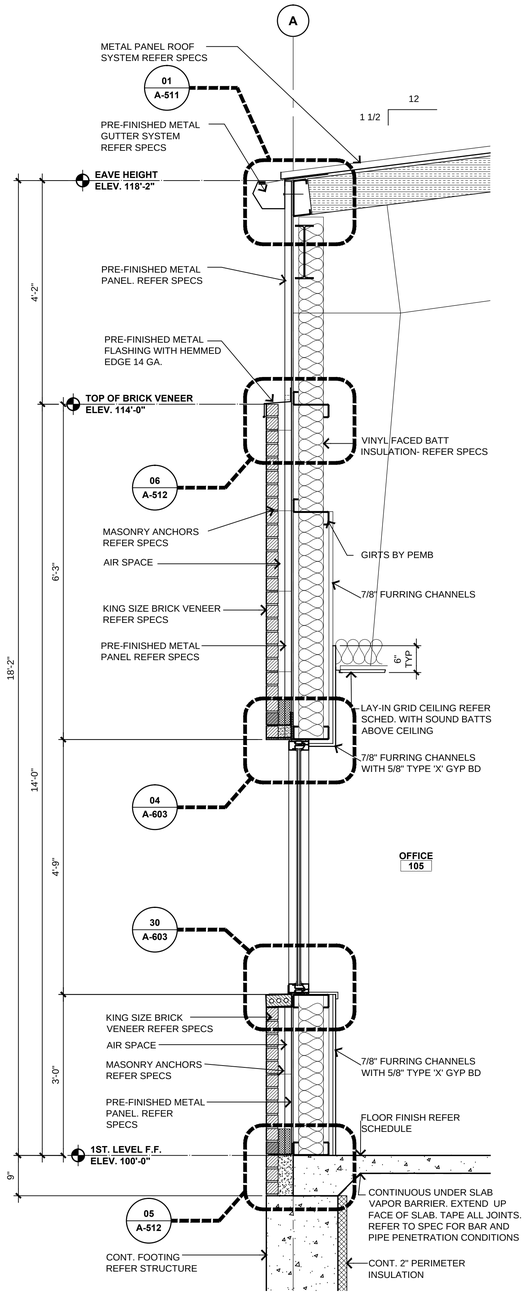
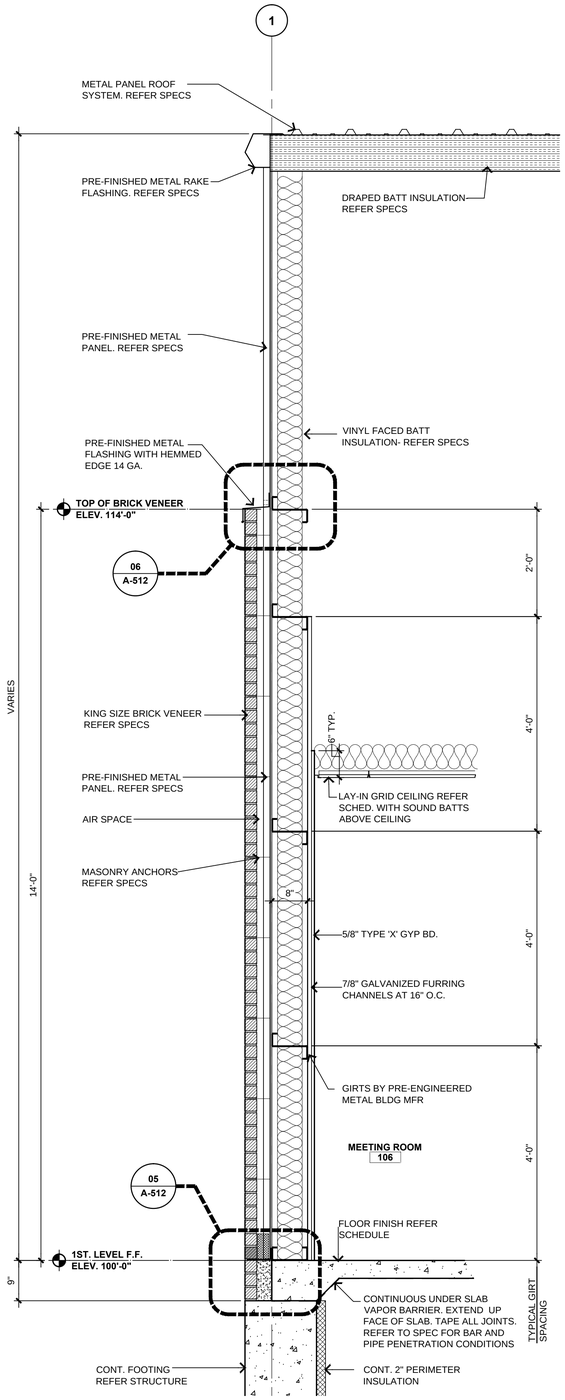
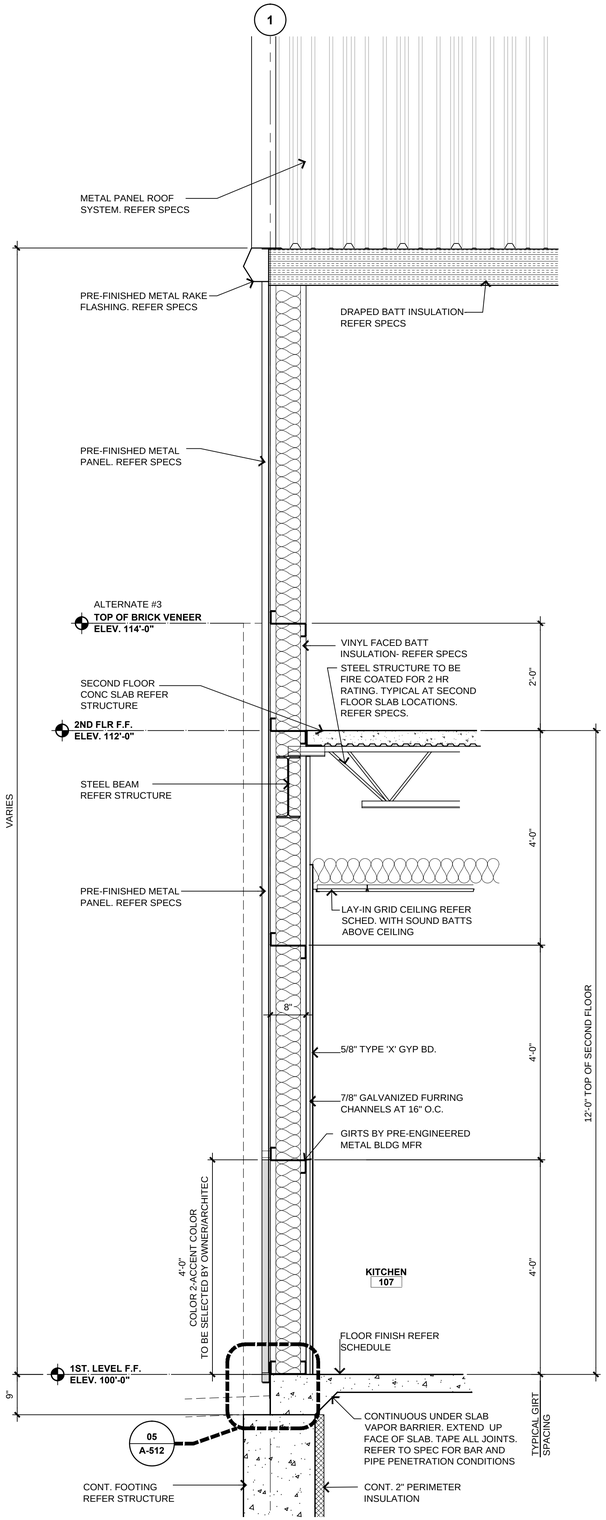


01 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101



02 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101



03 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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SEAL:

STATE OF OKLAHOMA GANG 4780 LICENSED ARCHITECT

08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
501 S. MAIN STREET
HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: WALL SECTIONS
SHEET NO.: A-313

8/8/2022 2:07:05 PM

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
2. ADD BRICK LEDGE TO EXISTING EAST SIDE.
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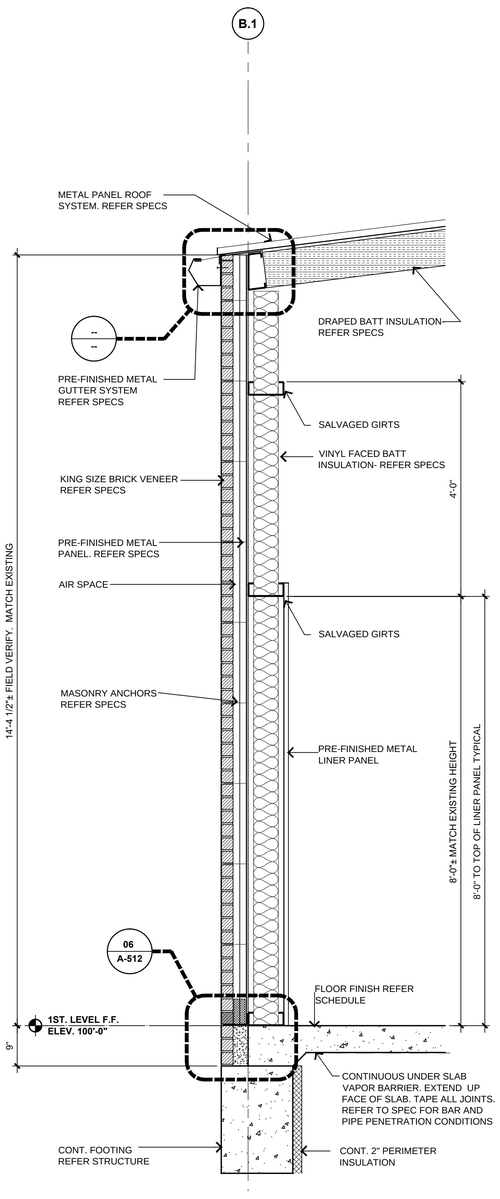

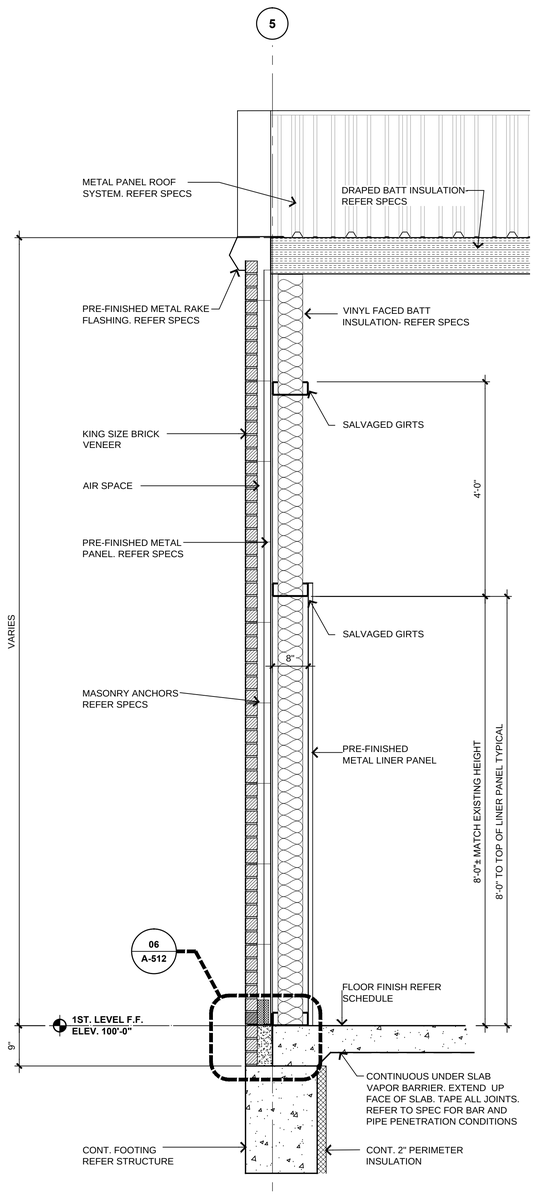

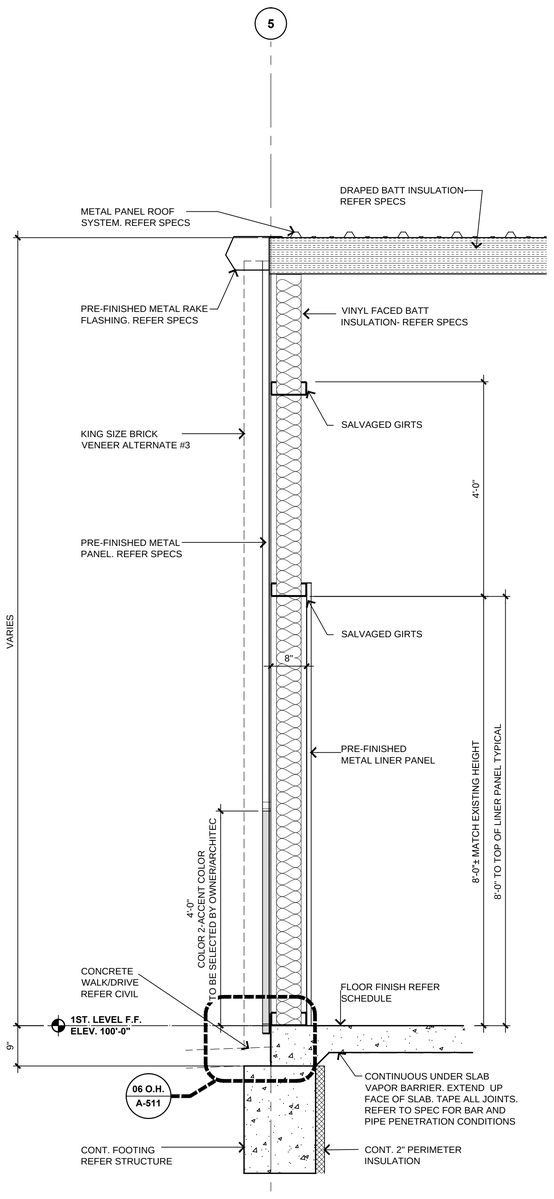

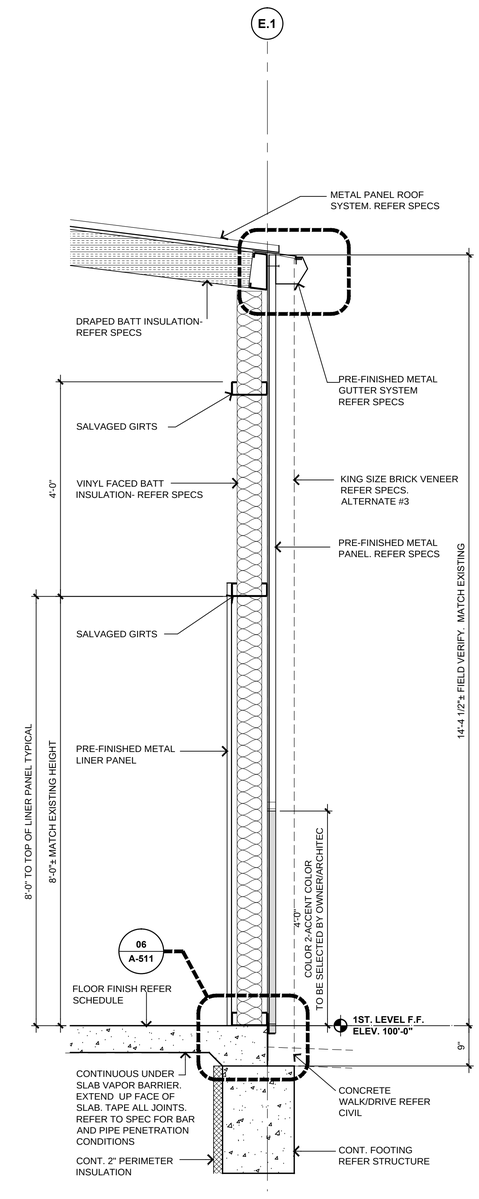

01 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101

02 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101

03 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101

04 WALL SECTION
SCALE: 3/4"=1'-0" 01/A-101

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
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SEAL:

STATE OF OKLAHOMA GANG LI 4780 LICENSED ARCHITECT

08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

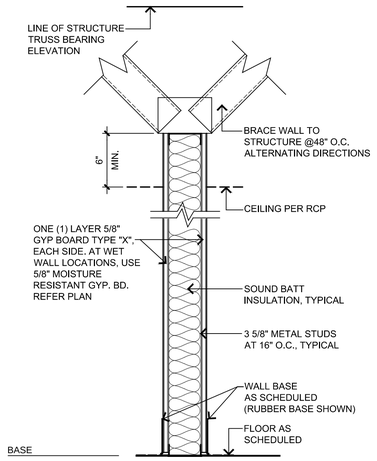
REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

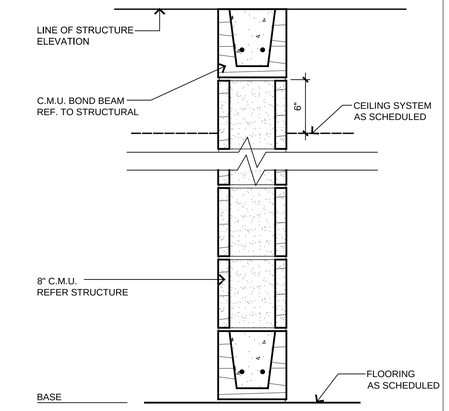
DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: WALL SECTIONS
SHEET NO.: A-314



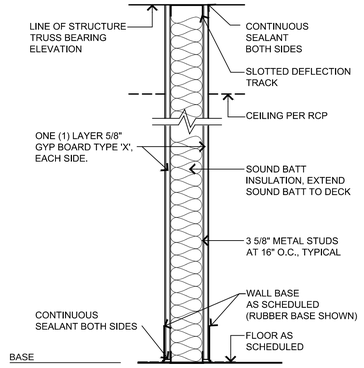
01 PARTITION NOT RATED

SCALE: 1 1/2"=1'-0"



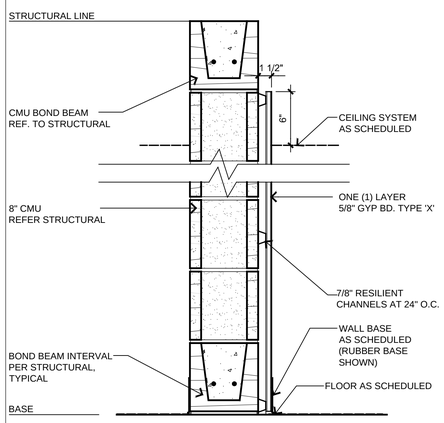
02 PARTITION NOT RATED

SCALE: 1 1/2"=1'-0"



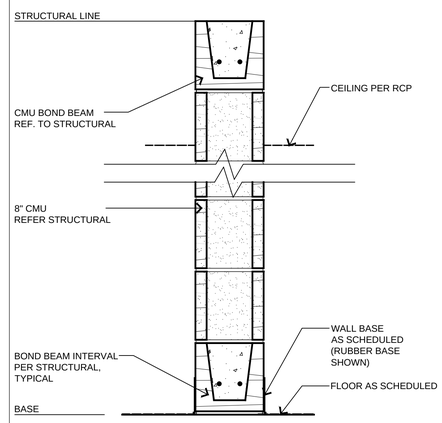
03 PARTITION NOT RATED

SCALE: 1 1/2"=1'-0"



04 2 HR RATED CMU W/GYP BD

SCALE: 1 1/2"=1'-0"



05 2 HR RATED CMU

SCALE: 1 1/2"=1'-0"

06 PARTITION NOT RATED

SCALE: 1 1/2"=1'-0"

07 2 HR RATED PARTITION

SCALE: 1 1/2"=1'-0"

08 2 HR RATED CMU W/GYP BD

SCALE: 1 1/2"=1'-0"

09 2 HR RATED CMU

SCALE: 1 1/2"=1'-0"

10 2 HR RATED PARTITION

SCALE: 1 1/2"=1'-0"

11 SOUND PARTITION NOT RATED

SCALE: 1 1/2"=1'-0"

12 SOUND PARTITION NOT RATED

SCALE: 1 1/2"=1'-0"

13 2 HR RATED CMU W/GYP BD

SCALE: 1 1/2"=1'-0"

14 2 HR RATED CMU W/GYP BD

SCALE: 1 1/2"=1'-0"

ARCHITECTS
IN
PARTNERSHIP

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PLANNERS

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SEAL:

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HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS		
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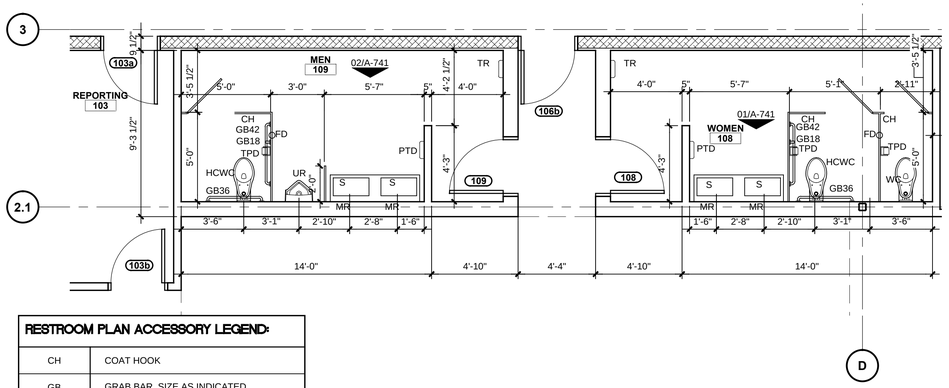
PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: PARTITION WALL TYPES
SHEET NO.: A-321

8/8/2022 2:07:34 PM

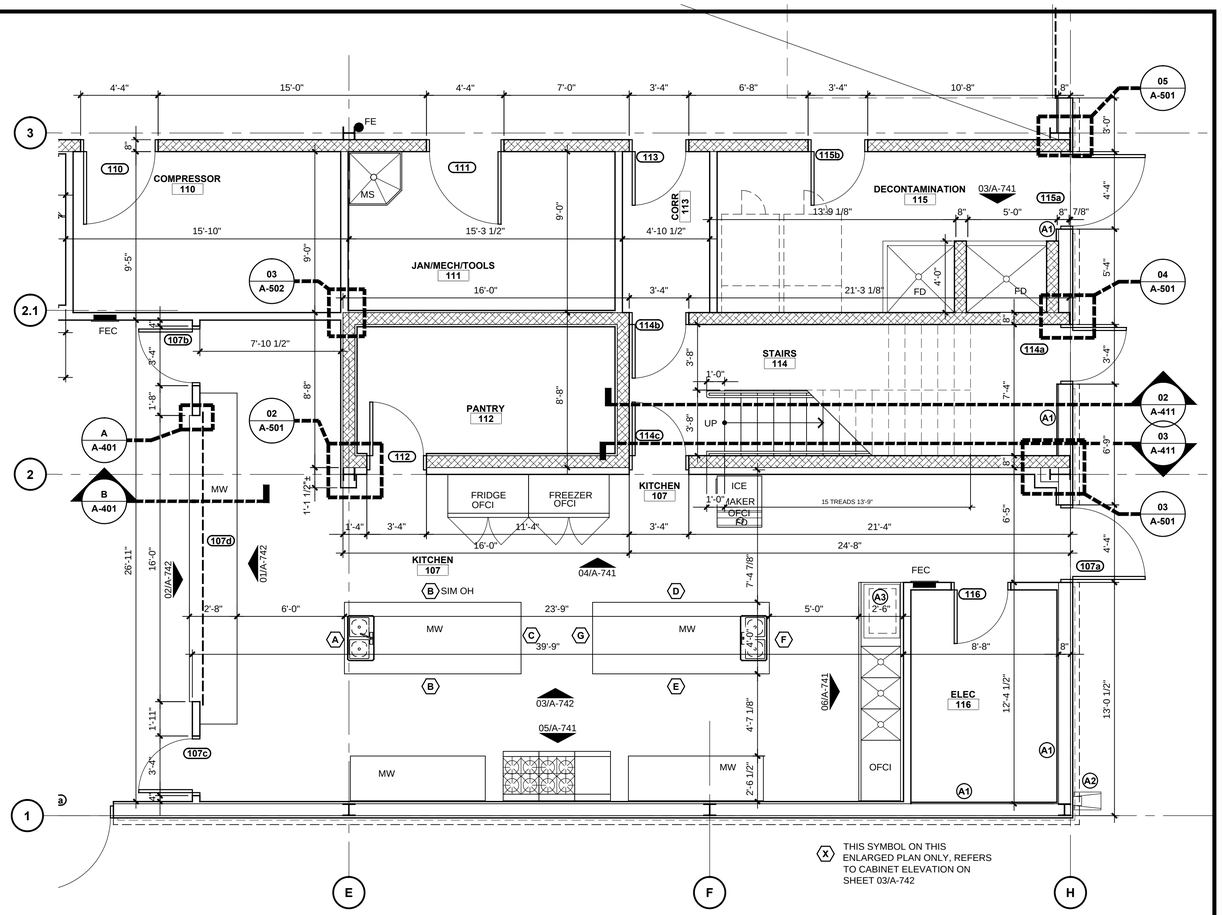


RESTROOM PLAN ACCESSORY LEGEND:	
CH	COAT HOOK
GB	GRAB BAR, SIZE AS INDICATED
UR	URINAL RE: PLUMBING PLAN
HCWC	ACCESSIBLE WATER CLOSET RE: PLUMBING
MR	24"x36" FRAMED MIRROR
PTD	PAPER TOWEL DISPENSER
S	SINK RE: PLUMBING
TPD	TOILET PAPER DISPENSER
TR	TRASH RECEPTACLE
WC	WATER CLOSET RE: PLUMBING

01 ENLARGED RESTROOM FLOOR PLANS

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

NORTH

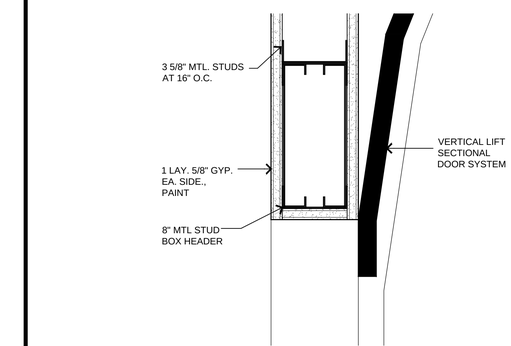


X THIS SYMBOL ON THIS ENLARGED PLAN ONLY, REFERS TO CABINET ELEVATION ON SHEET 03/A-742

02 ENLARGED KITCHEN/MISC FLOOR PLANS

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

NORTH

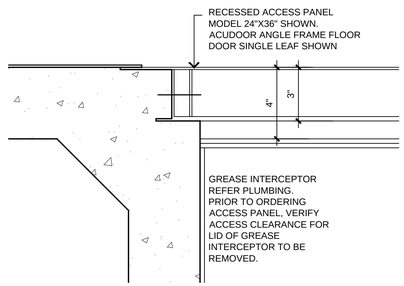


A JAMB DETAIL AT VERTICAL LIFT DOOR

SCALE: 3"=1'-0"

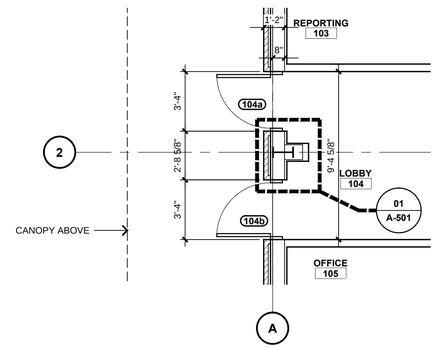
B HEADER DETAIL AT VERTICAL LIFT DOOR

SCALE: 3"=1'-0"



C SECTION AT GREASE INTERCEPTOR

SCALE: 3"=1'-0"



03 ENLARGED ENTRY PLAN

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

NORTH

KEYNOTES KITCHEN PLAN (X) :

A1. PRE-FINISHED METAL LINER PANEL
A2. PRE-FINISHED METAL DOWNSPOUT WITH CONC. SPLASH BLOCK.
A3. GREASE INTERCEPTOR AND FLOOR ACCESS PANEL. RECESSED IN FLOOR. REFER PLUMBING, STRUCTURE AND DETAIL C/A-401.

PLAN LEGEND:

DS	DOWNSPOUT, REFER PLUMBING
FD	FLOOR DRAIN - REF: PLUMBING
FEC	FIRE EXTINGUISHER CABINET
MS	MOP SINK - REF: PLUMBING
MW	BUILT-IN MILLWORK
	METAL STUD WALL
	CMU WALL
	BRICK-ALTERNATE #3.
	NEW FACE BRICK VENEER
	NEW FACE BRICK VENEER 3' WAINSCOT
	EXISTING BUILDING SLAB TO REMAIN

ALTERNATES :

1. DEMO EXISTING METAL WALL PANELS, REPLACE WITH NEW METAL WALL PANELS ON EAST SIDE. DEMO METAL ROOF AND GUTTER/DOWNSPOUTS EAST SIDE, REPLACE WITH NEW METAL ROOF PANELS, GUTTERS AND DOWNSPOUTS EAST SIDE.
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ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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HENNESSEY FIRE DEPARTMENT

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501 S. MAIN STREET

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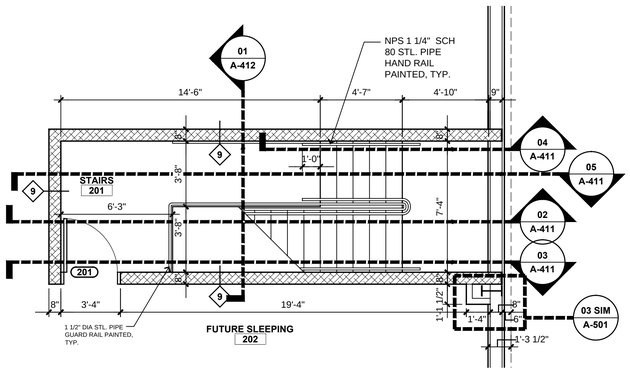
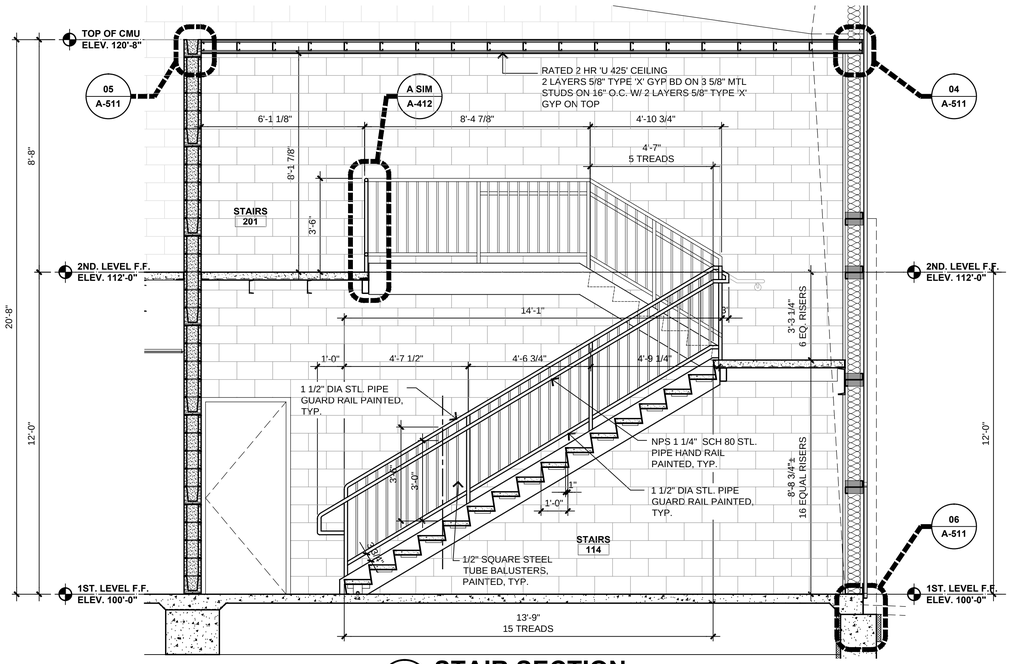
SHEET TITLE: ENLARGED FLOOR PLANS

SHEET NO.: A-401



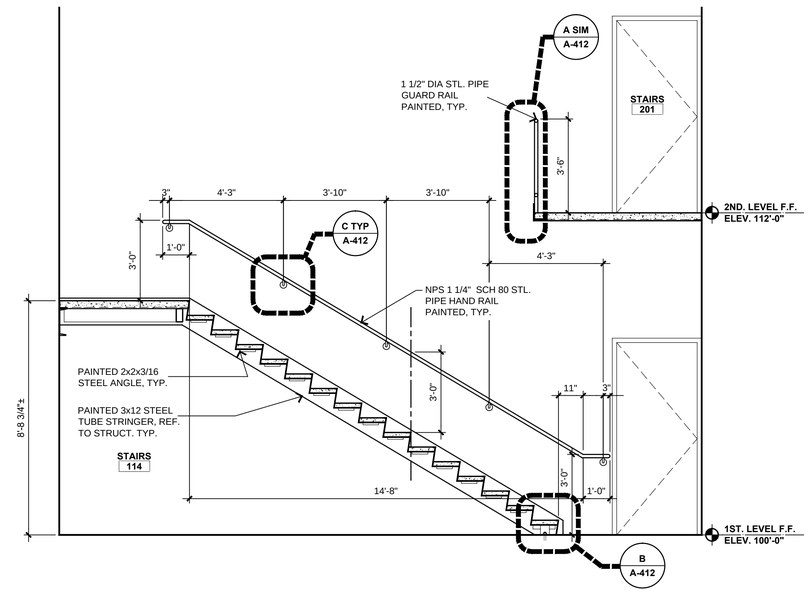
2ND LEVEL ENLARGED STAIR PLAN

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



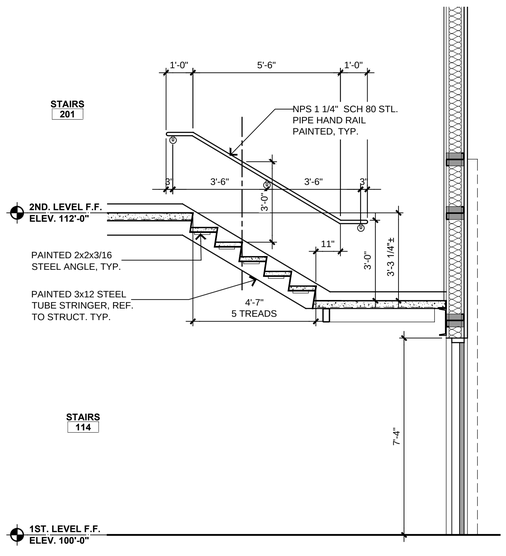
02 STAIR SECTION

SCALE: 3/8"=1'-0" 01/A-301



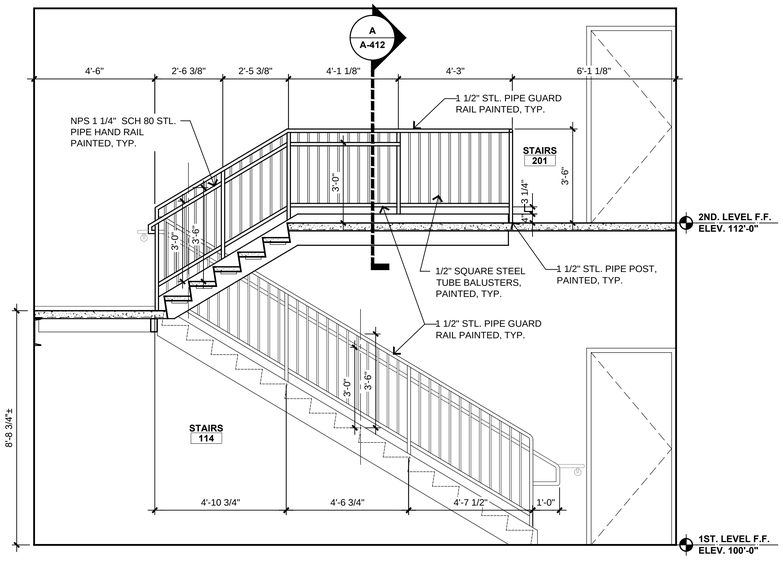
03 STAIR SECTION

SCALE: 3/8"=1'-0" 01/A-411



04 STAIR SECTION

SCALE: 3/8"=1'-0" 01/A-411



05 STAIR RAILING SECTION

SCALE: 3/8"=1'-0" 01/A-411

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
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PLANNERS

3220 MARSHALL AVENUE
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HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

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HENNESSEY, OKLAHOMA

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CHECKED BY: GL

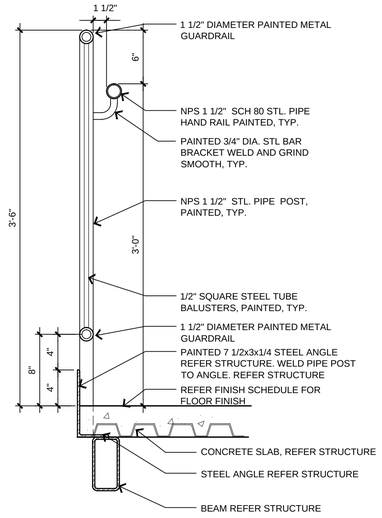
DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: STAIR SECTION

SHEET NO.: A-411

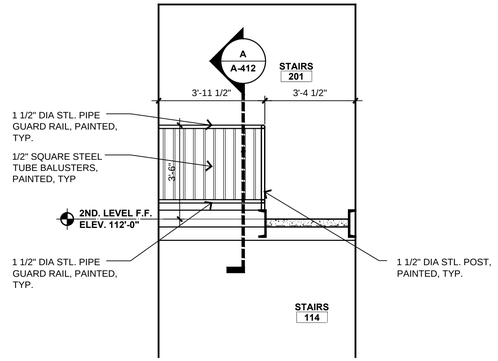
8/8/2022 2:08:00 PM

NOTE: VERIFY MEASUREMENTS / SLOPES OF ALL HANDRAILS / GUARDRAILS PRIOR TO ORDERING



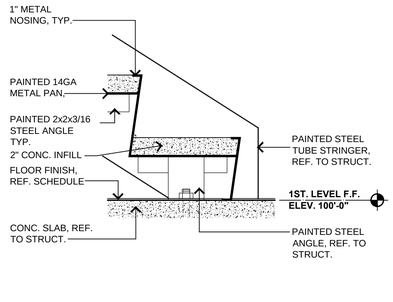
A GUARDRAIL/ HANDRAIL SECTION

SCALE: 1 1/2"=1'-0"



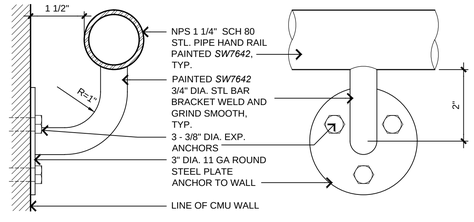
01 STAIR SECTION

SCALE: 3/8"=1'-0" X-AXXX



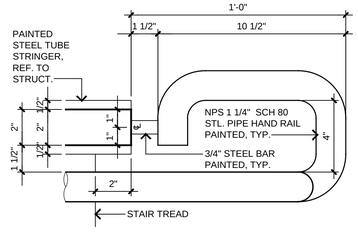
B TYPICAL CONCRETE PAN STAIR SECTION

SCALE: 1 1/2"=1'-0"



C TYPICAL HANDRAIL SECTION

SCALE: 6"=1'-0"



D STAIR HANDRAIL DETAIL

SCALE: 3"=1'-0"

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

3220 MARSHALL AVENUE
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SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

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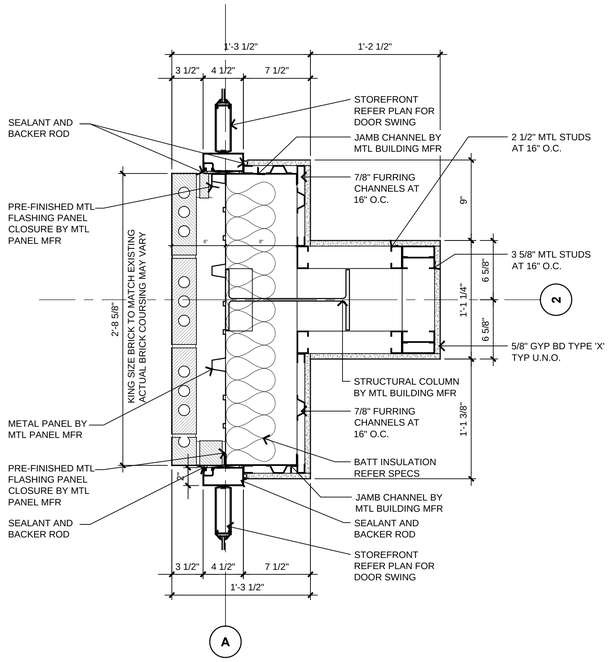
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

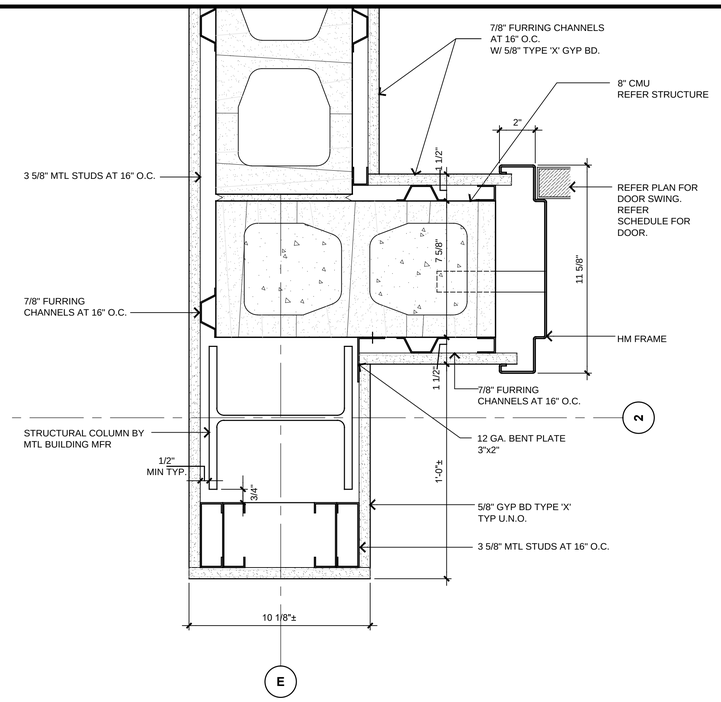
SHEET TITLE: STAIR SECTION
SHEET NO.: A-412

8/8/2022 2:08:15 PM



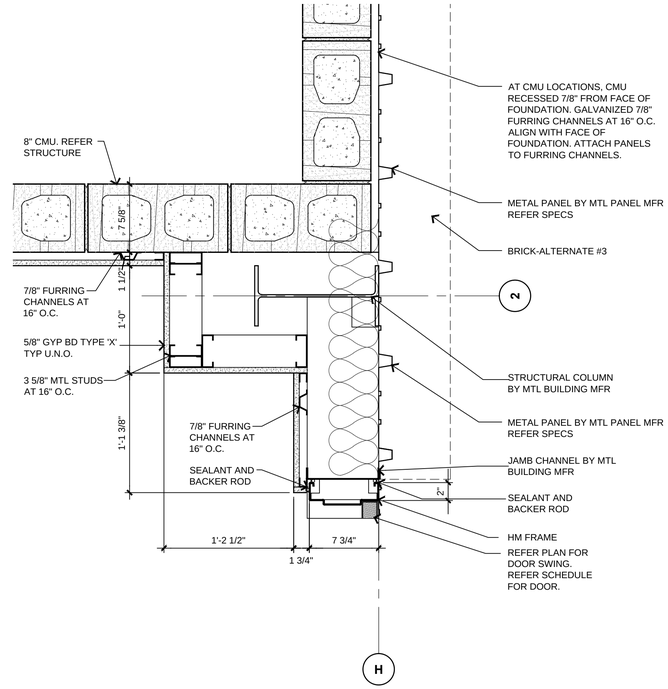
01 PLAN DETAIL

SCALE: 1 1/2"=1'-0" 03/A-401



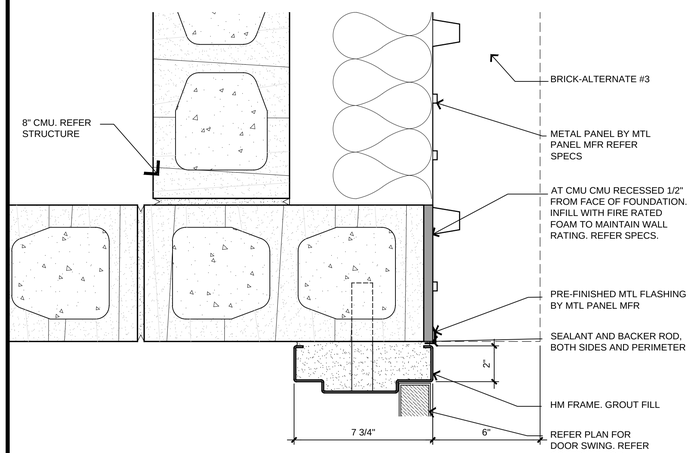
02 PLAN DETAIL

SCALE: 3"=1'-0" 02/A-401



03 PLAN DETAIL ABOVE WAINSCOT

SCALE: 1 1/2"=1'-0" 02/A-401



04 PLAN DETAIL

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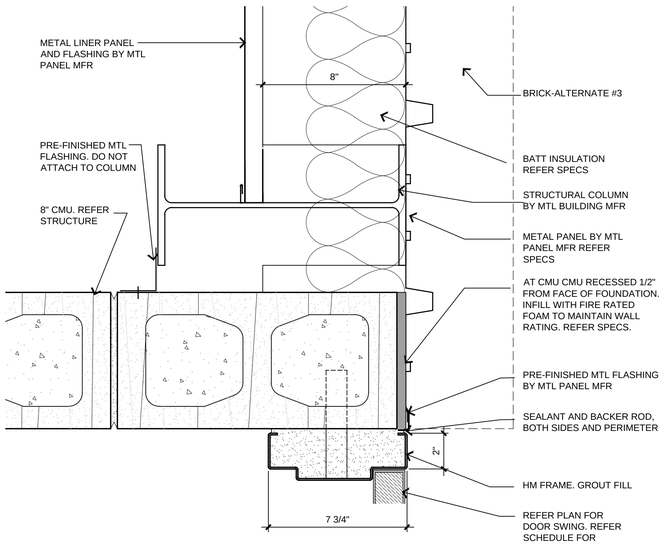
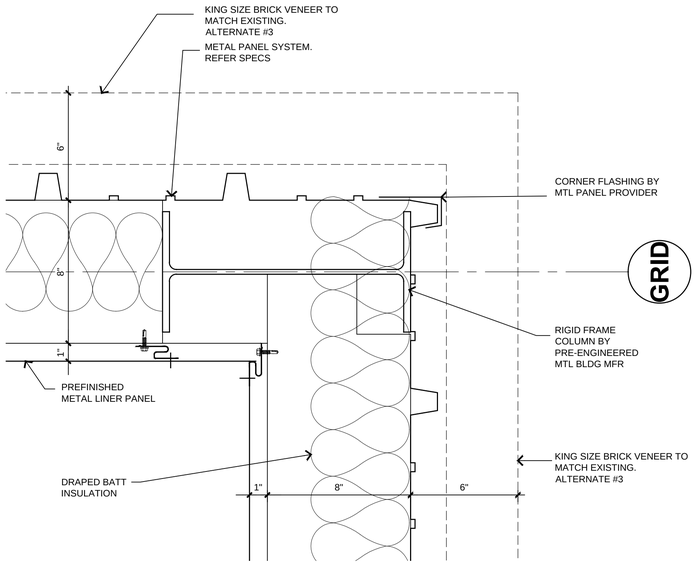


05 PLAN DETAIL

SCALE: 3"=1'-0" 02/A-401



CORNER PLAN DETAIL

SCALE: 3"=1'-0"

06

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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NORMAN, OK 73072
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SEAL:

STATE OF OKLAHOMA
GANG
4780
LICENSED ARCHITECT

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

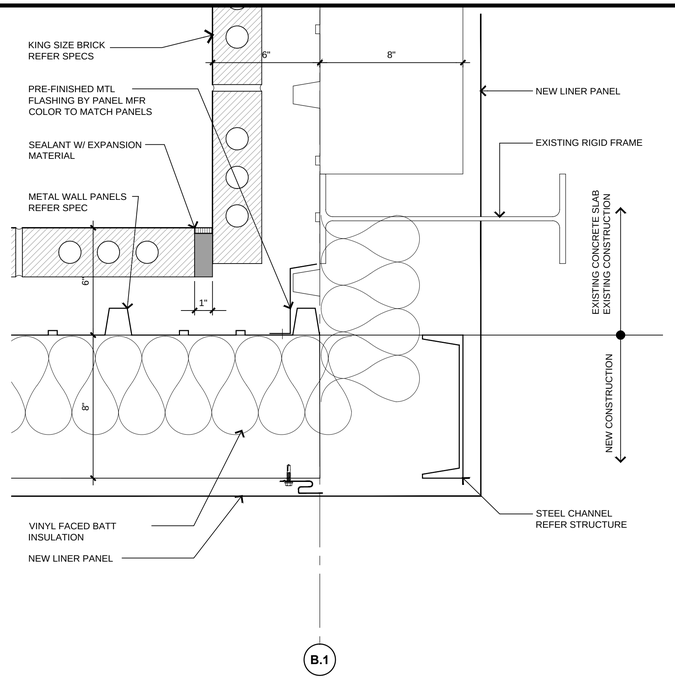
HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

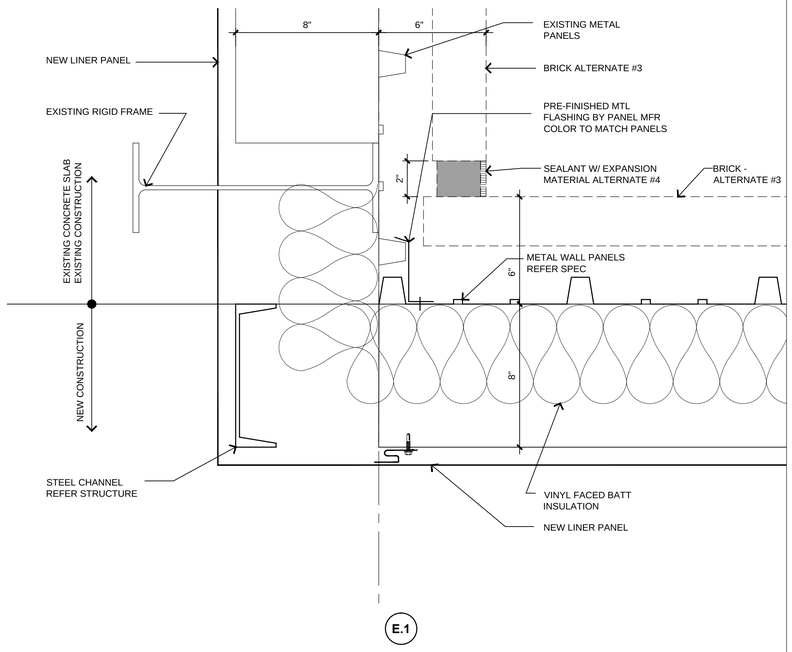
PROJ. MANAGER:	GL
DRAWN BY:	STAFF
CHECKED BY:	GL
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	PLAN DETAILS
SHEET NO.:	A-501

8/8/2022 2:08:29 PM



01 PLAN DETAIL

SCALE: 3"=1'-0" 01/A-101



02 PLAN DETAIL

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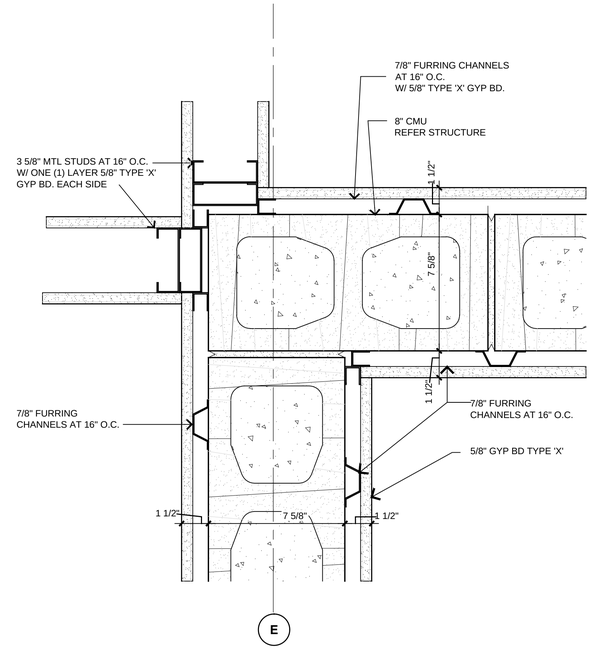

03 PLAN DETAIL

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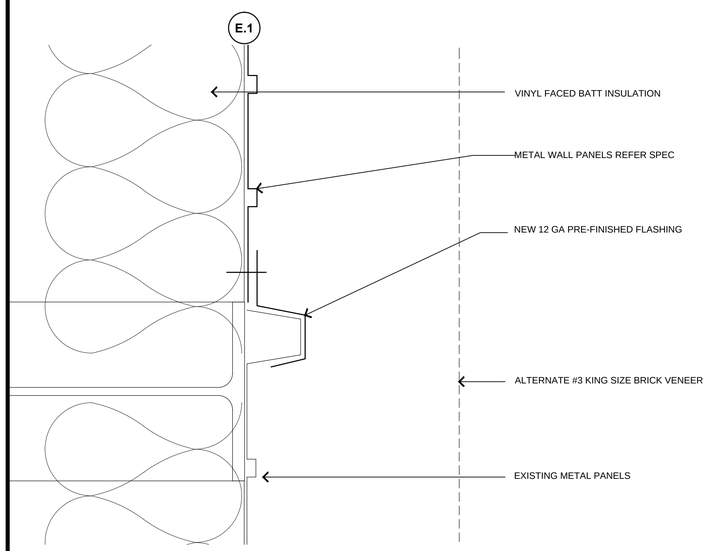
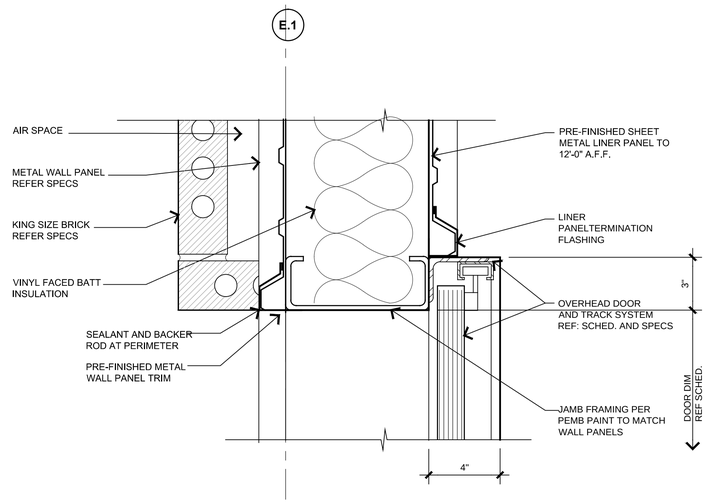


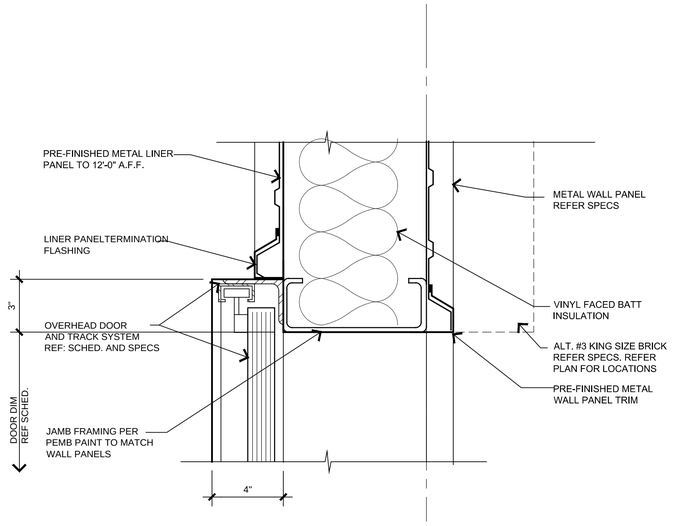
04 PLAN DETAIL

SCALE: 6"=1'-0" 001/A-101



05 OVHD DOOR JAMB DETAIL

SCALE: 3"=1'-0"



06 OVHD DOOR JAMB DETAIL W/O BRICK

SCALE: 3"=1'-0"

ARCHITECTS
IN
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PLANNERS

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08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

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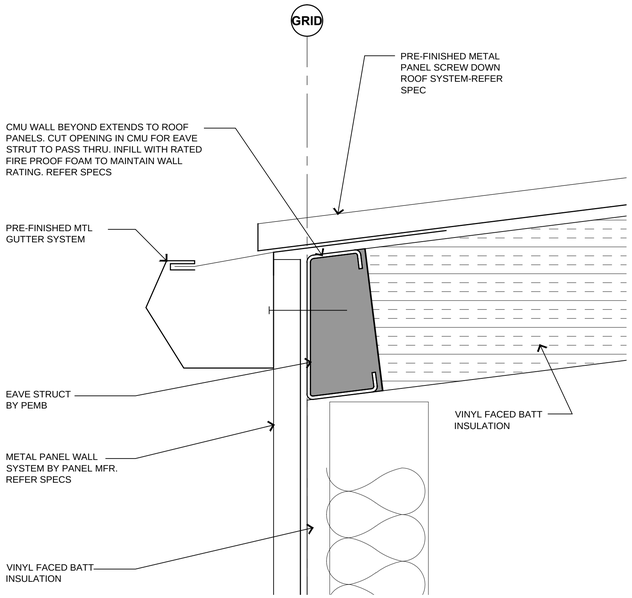
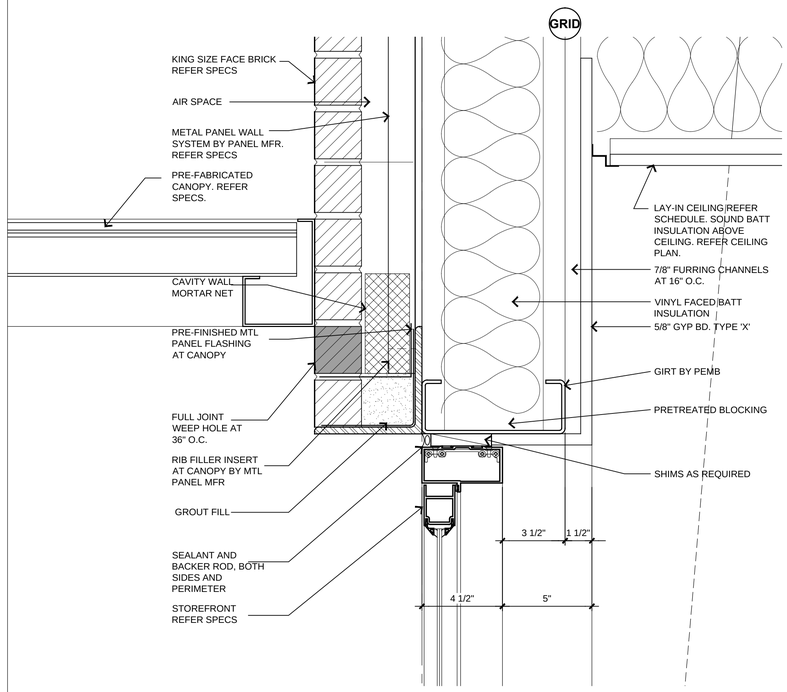
PROJ. MANAGER:	GL
DRAWN BY:	STAFF
CHECKED BY:	GL
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	PLAN DETAILS
SHEET NO.:	A-502

8/8/2022 2:08:44 PM



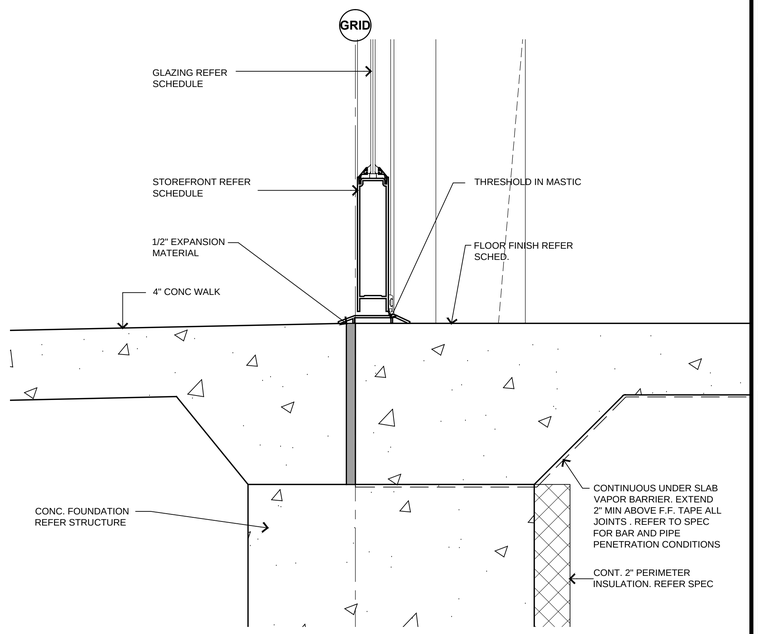
01 TYPICAL EAVE SECTION

SCALE: 3"=1'-0" 01/A-311



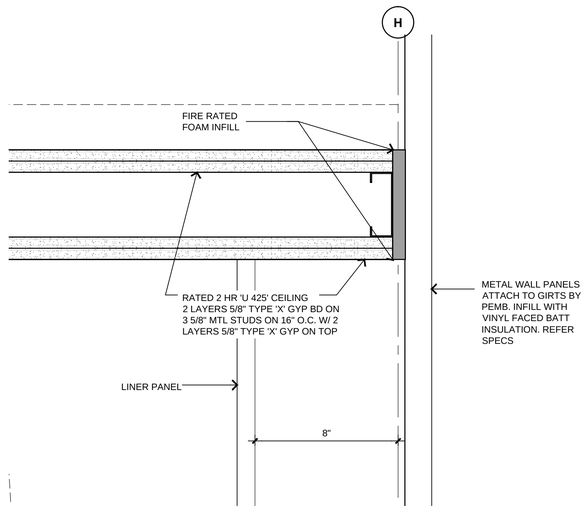
02 SECTION DETAIL

SCALE: 3"=1'-0" 04/A-311



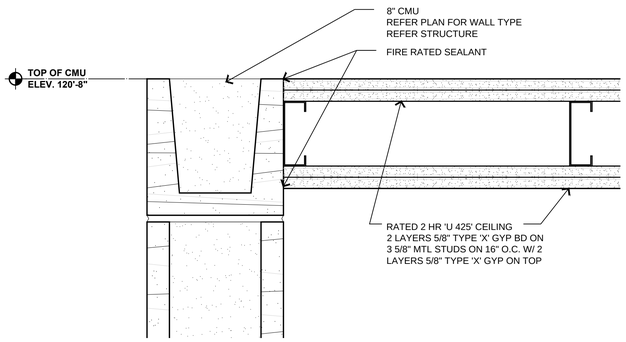
03 SILL SECTION

SCALE: 3"=1'-0" 01/A-311



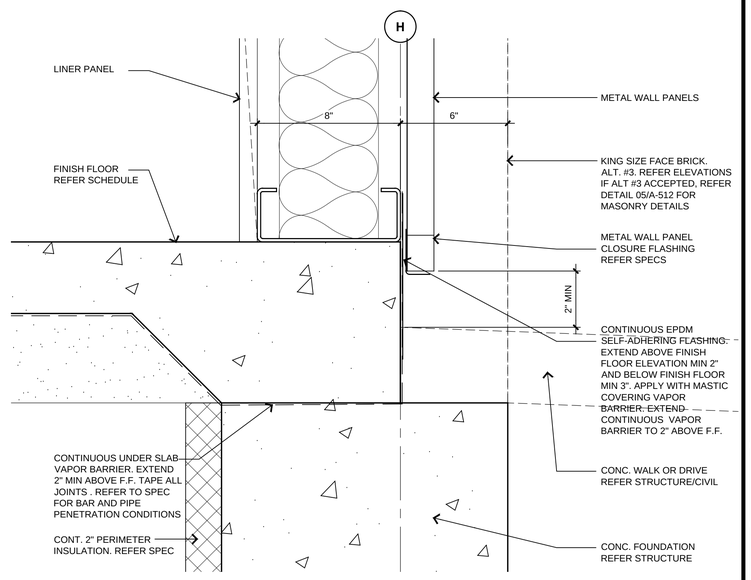
04 SECTION DETAIL

SCALE: 3"=1'-0" 02/A-311



05 SECTION DETAIL

SCALE: 3"=1'-0" 02/A-411



BASE SECTION AT INTERIOR LINER LOCATIONS

06

SCALE: 3"=1'-0" 02/A-311

ARCHITECTS IN PARTNERSHIP

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HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

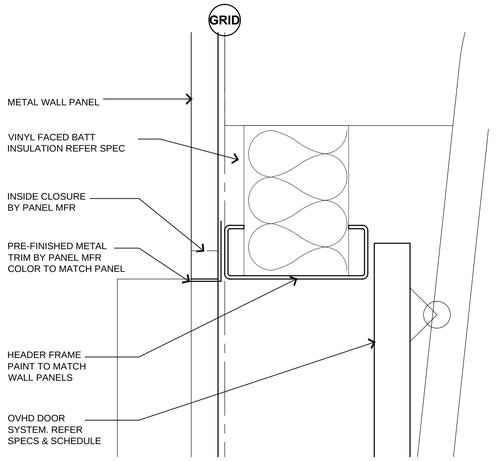
PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: VERTICAL DETAILS

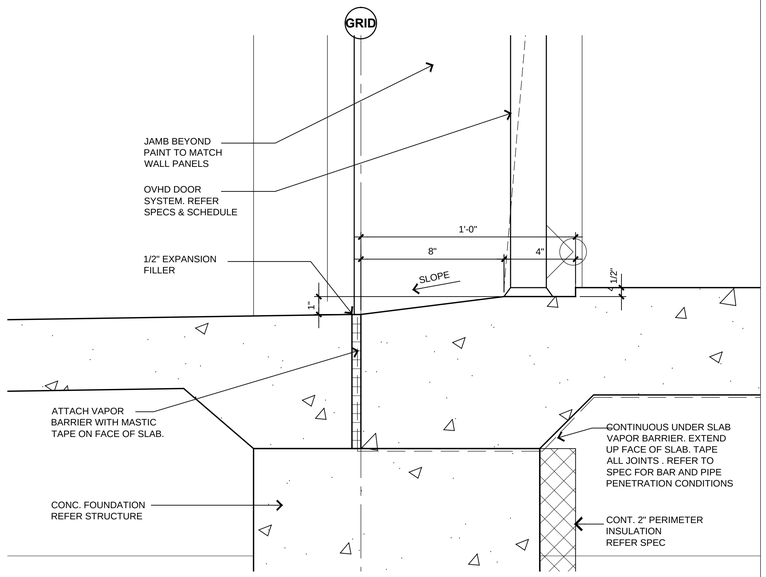
SHEET NO.: A-511

8/8/2022 2:08:55 PM



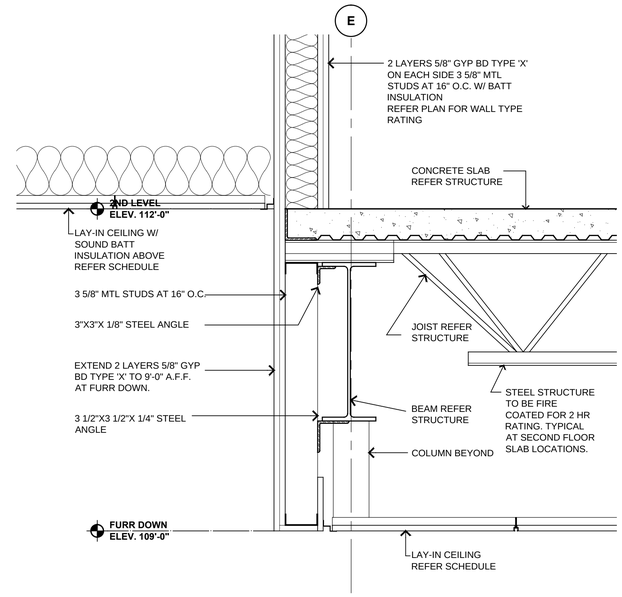
01 OVHD DOOR HEADER

SCALE: 3"=1'-0" 03/A-312



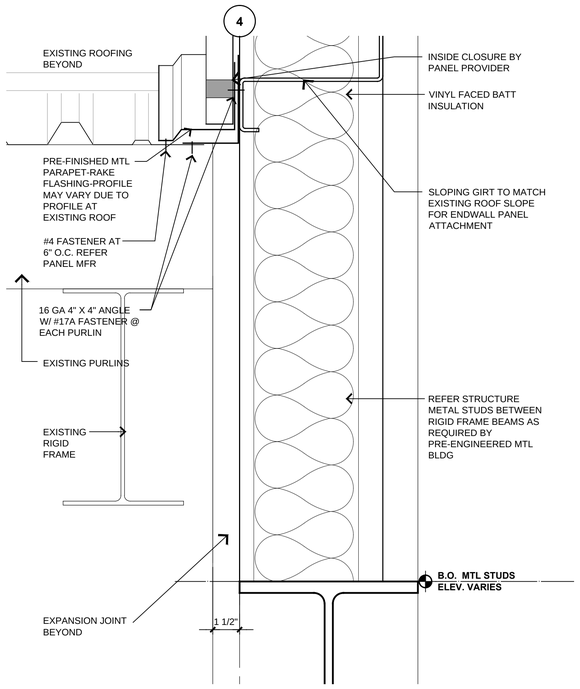
02 BASE DETAIL

SCALE: 3"=1'-0" 03/A-312



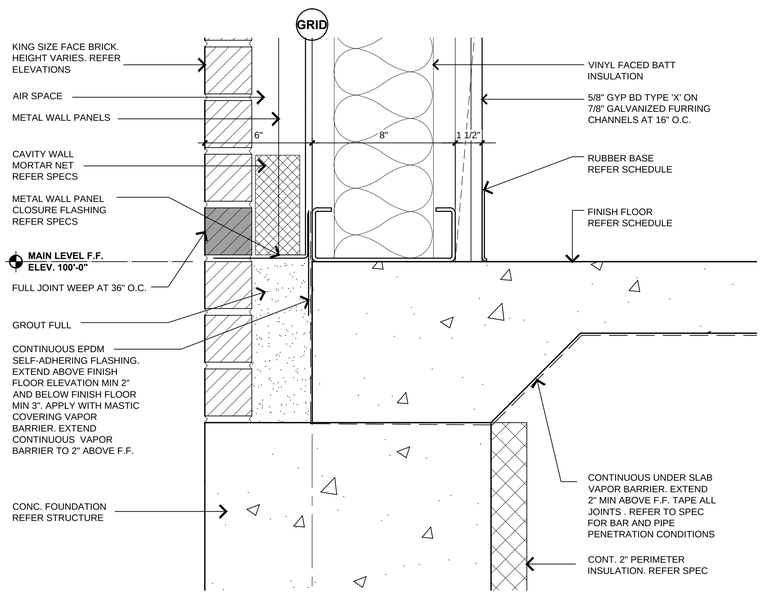
03 FURR DOWN SECTION

SCALE: 1 1/2"=1'-0" 01/A-301



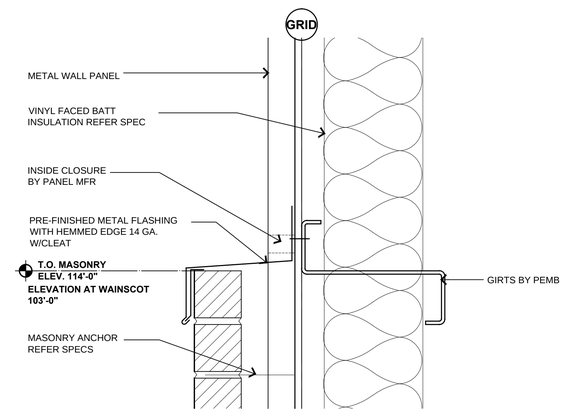
04 SECTION DETAIL

SCALE: 3"=1'-0" 02/A-312



05 SECTION DETAIL

SCALE: 3"=1'-0" 01/A-313



06 SECTION DETAIL

SCALE: 3"=1'-0" 01/A-311

ARCHITECTS IN PARTNERSHIP

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INTERIOR DESIGNERS
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08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: VERTICAL DETAILS

SHEET NO.: A-512

8/8/2022 2:09:10 PM

DOOR SCHEDULE

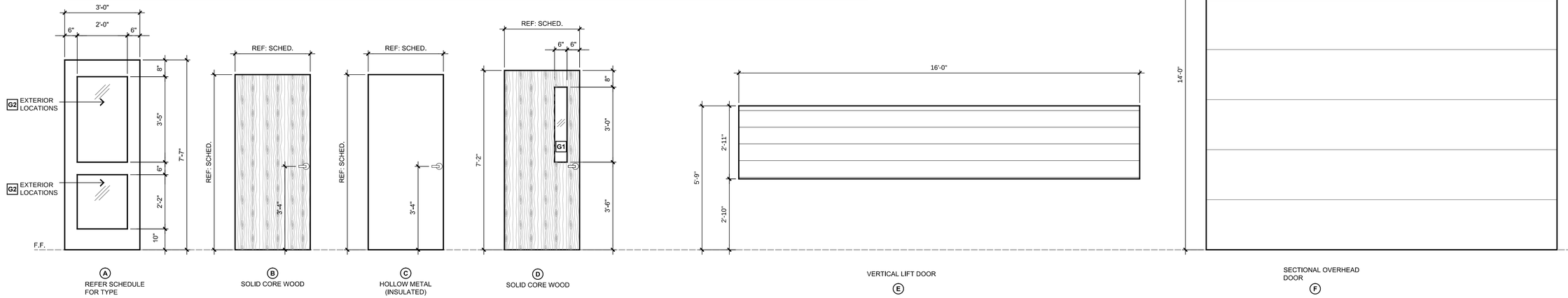
MARK	DOOR SIZE W	DOOR SIZE HT	DOOR SIZE THK	DOOR MAT'L	DOOR ELEV	DOOR SILL	DOOR GLAZING	FRAME MAT'L	FRAME ELEV	FRAME GLAZING	FRAME DETAIL HEAD	FRAME DETAIL JAMB	LABEL (MINUTES)	HARDWARE SET NO.	HARDWARE KEYSIDE RM. NO.	NOTE
101	3'-0"	7'-10"	1 3/4"	HM	C	03/A-602		HM	1		02/A-603	01/A-603 06/A-603		2.0	EXTR	
102a	3'-0"	7'-10"	1 3/4"	HM	C	03/A-602		HM	1		02/A-603	01/A-603 06/A-603		2.0	EXTR	
102b	14'-0"	14'-0"	-	-	F	02/A-512		-	1		01/A-512	05/A-602 06/A-502		12.0	EXTR	OVHD SECTIONAL DOOR-REFER SPEC
102c	14'-0"	14'-0"	-	-	F	02/A-512		-	1		01/A-512	05/A-502 06/A-502		12.0	EXTR	OVHD SECTIONAL DOOR-REFER SPEC
103a	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		10/A-602	09/A-602	90 MIN	8.0	102	
103b	3'-0"	7'-10"	0'-1 3/4"	WD	D		G1	HM	1		05/A-602	04/A-602		8.0	104	
104a	3'-0"	7'-7"	1 3/4"	AL	A	03/A-511	G2	AL	1		02/A-511	01/A-501		1.0	EXTR	
104b	3'-0"	7'-7"	1 3/4"	AL	A	03/A-511	G2	AL	1		02/A-511	01/A-501		1.0	EXTR	
105	3'-0"	7'-10"	1 3/4"	WD	D		G1	HM	1		05/A-602	04/A-602		7.0	104	
106a	4'-0"	7'-10"	1 3/4"	HM	C	03/A-602		HM	1		09/A-603	07/A-603 08/A-603		2.0	EXTR	
106b	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		10/A-602	09/A-602	90 MIN	9.0	102	
107a	4'-0"	7'-10"	1 3/4"	HM	C	03/A-602		HM	1		09/A-603	07/A-603 08/A-603		2.0	EXTR	
107b	3'-0"	7'-2"	1 3/4"	WD	D		G1	HM	1		05/A-602	04/A-602		11.0	106	
107c	3'-0"	7'-2"	1 3/4"	WD	D		G1	HM	1		05/A-602	04/A-602		11.0	106	
107d	16'-0"	2'-11"		STL	E						B/A-401	A/A-401		12.0		VERTICAL LIFT SECTIONAL DOOR-REFER SPEC
108	3'-0"	7'-2"	1 3/4"	WD	B			HM	1		07/A-602	08/A-602		10.0	106	SOUND PROOF DOOR
109	3'-0"	7'-2"	1 3/4"	WD	B			HM	1		07/A-602	08/A-602		10.0	106	SOUND PROOF DOOR
110	4'-0"	7'-2"	1 3/4"	HM	C			HM	1		02/A-602	01/A-602	90 MIN	6.0	102	
111	4'-0"	7'-2"	1 3/4"	HM	C			HM	1		02/A-602	01/A-602	90 MIN	6.0	102	
112	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		12/A-602	11/A-602	90 MIN	5.0	107	FEMA RATED DOOR
113	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		02/A-602	01/A-602	90 MIN	4.0	102	
114a	3'-0"	7'-2"	1 3/4"	HM	C	03/A-602		HM	1		09A-603	07/A-603 08/A-603		2.0	EXTR	
114b	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		02/A-602	01/A-602	90 MIN	4.0	113	
114c	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		11/A-603	10/A-603	90 MIN	4.0	107	
115a	4'-0"	7'-10"	1 3/4"	HM	C	03/A-602		HM	1		02/A-603	01/A-603		3.0	EXTR	
115b	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		02/A-602	01/A-602	90 MIN	9.0	102	
116	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		05/A-602	04/A-602		6.0	107	
201	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		02/A-602	01/A-602	90 MIN	4.0	201	
202	3'-0"	7'-2"	1 3/4"	HM	C			HM	1		05/A-602	04/A-602		7.0	202	

GLAZING SCHEDULE

MARK	NOTE
G1	1/4" TEMPERED FLOAT GLASS, CLEAR
G2	1" INSULATED TEMPERED LOW-E GLASS, CLEAR

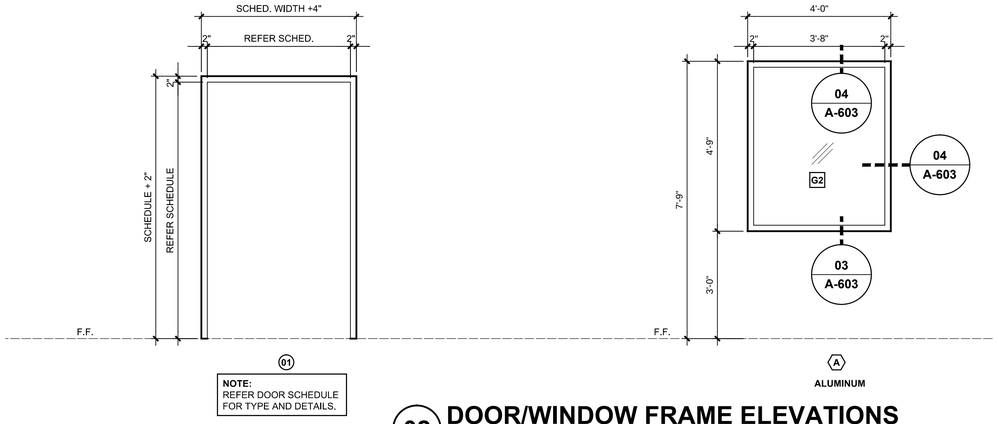
GENERAL DOOR AND WINDOW NOTES:

1. CONTRACTOR SHALL FIELD VERIFY DIMENSIONALLY ALL OPENINGS PRIOR TO MANUFACTURING WINDOW AND DOOR FRAMES.
2. ALL DOOR AND FRAME ASSEMBLIES AND INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH INTERNATIONAL LIFE SAFETY CODES GOVERNING EDITION. ALL EXTERIOR DOORS SHALL BE COMPLETE WITH PROPER THRESHOLDS, ASTRAGALS, WEATHER-STRIPING, HOLDS, AND DOOR BOTTOMS.
3. ALL GLAZING IN HAZARDOUS AREAS MUST MEET THE REQUIREMENTS FOR SAFETY GLAZING UNDER IBC 2406.
4. SOLID GROUT ALL HOLLOW METAL FRAME IN MASONRY CONSTRUCTION.
5. ALL EXTERIOR WINDOW FRAME ELEVATIONS ARE VIEWED FROM THE EXTERIOR OF THE BUILDING.
6. GRIND ALL WELDS IN HOLLOW METAL FRAMES SMOOTH.
7. ALL EXTERIOR HOLLOW METAL DOOR FRAMES AND EXTERIOR FACE OF HOLLOW METAL DOORS TO RECEIVE PAINT. PAINT COLOR TBD.
8. ALL GLASS IN THIS PROJECT IS TEMPERED SAFETY GLASS UNDER PROVISIONS OF IBC 2406 UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS.
9. REFER TO TYPICAL DETAIL 03/A-602AT EXTERIOR DOOR THRESHOLDS.



01 DOOR ELEVATIONS

SCALE: 1/2"=1'-0"



02 DOOR/WINDOW FRAME ELEVATIONS

SCALE: 1/2"=1'-0"

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
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PLANNERS

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REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

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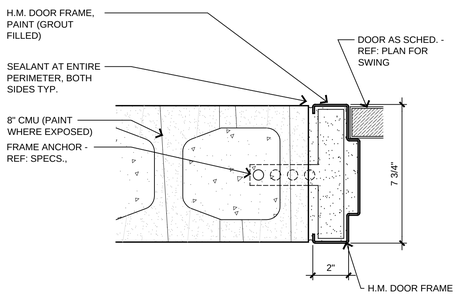
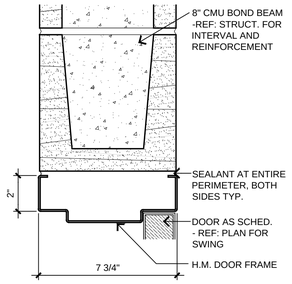
PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

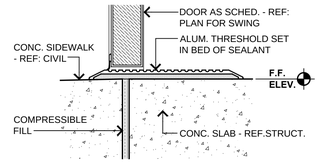
SHEET TITLE: DOOR SCHEDULE & DOOR FRAMES
SHEET NO.: A-601



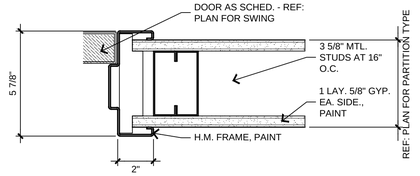
01 JAMB DETAIL
SCALE: 3"=1'-0"



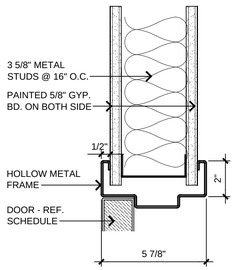
02 HEADER DETAIL
SCALE: 3"=1'-0"



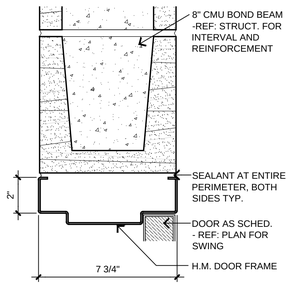
03 SILL DETAIL
SCALE: 3"=1'-0"



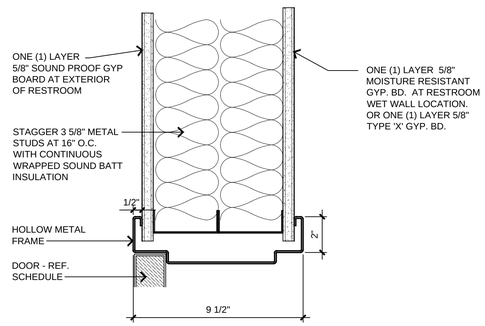
04 JAMB DETAIL
SCALE: 3"=1'-0"



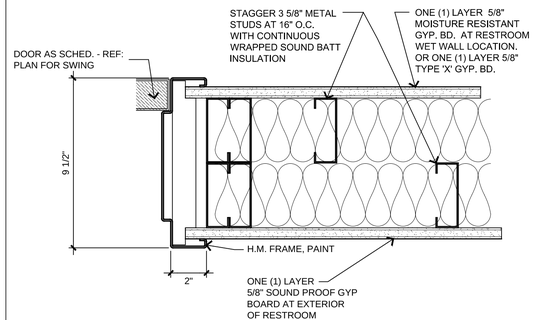
05 HEADER DETAIL
SCALE: 3"=1'-0"



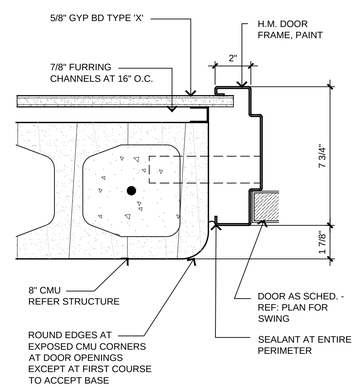
06 HEADER DETAIL
SCALE: 3"=1'-0"



07 HEADER DETAIL
SCALE: 3"=1'-0"



08 JAMB DETAIL
SCALE: 3"=1'-0"



09 JAMB DETAIL
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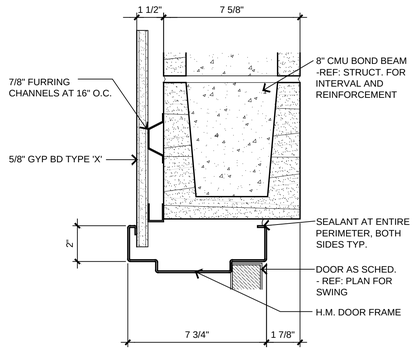
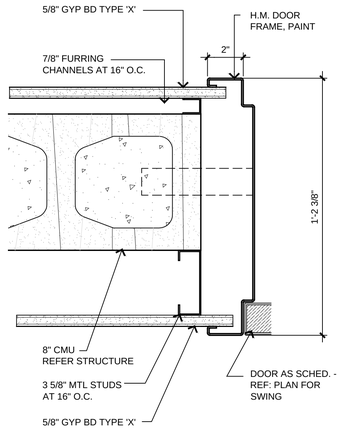


10 HEADER DETAIL
SCALE: 3"=1'-0"



11 JAMB DETAIL
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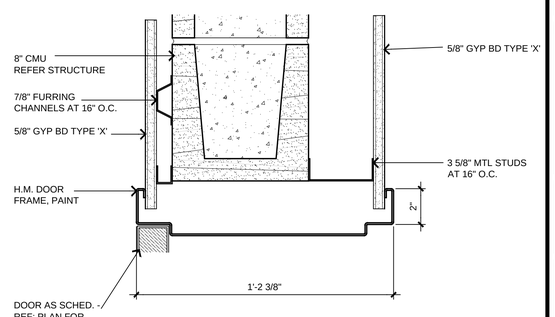

12 HEADER DETAIL
SCALE: 3"=1'-0"

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

3220 MARSHALL AVENUE
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TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
501 S. MAIN STREET
HENNESSEY, OKLAHOMA

REVISIONS

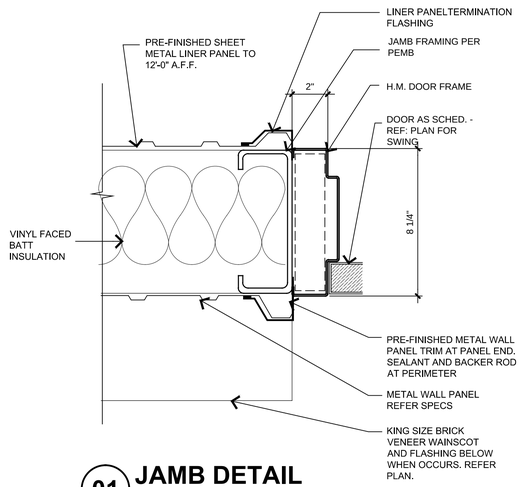
REV.	DATE	DESCRIPTION

PROJ. MANAGER:	GL
DRAWN BY:	STAFF
CHECKED BY:	GL
DATE:	08/08/2022
PROJECT NO.:	2111

SHEET TITLE: DOOR JAMB/HEADER DETAILS

SHEET NO.: A-602

8/8/2022 2:09:39 PM



01 JAMB DETAIL
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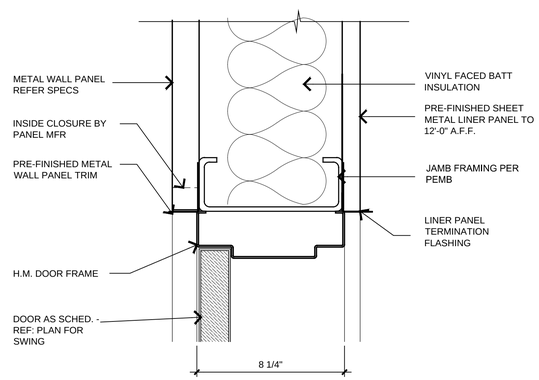

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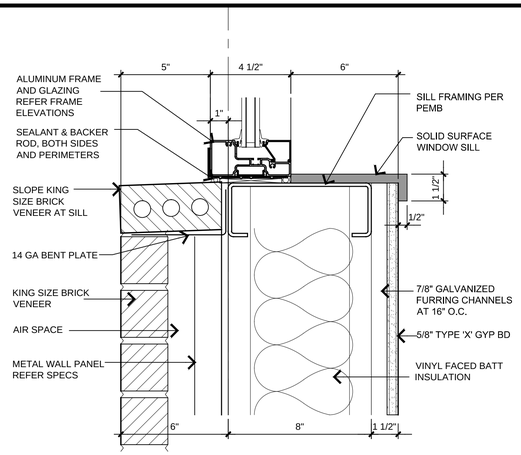

03 SILL DETAIL
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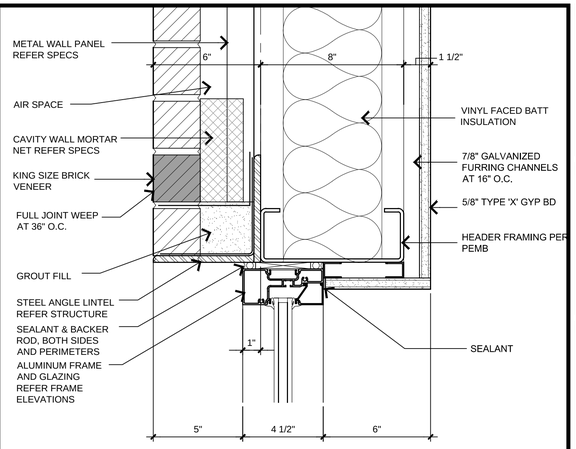

04 HEADER DETAIL
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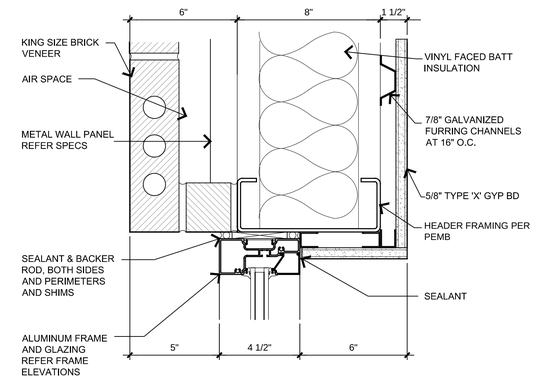

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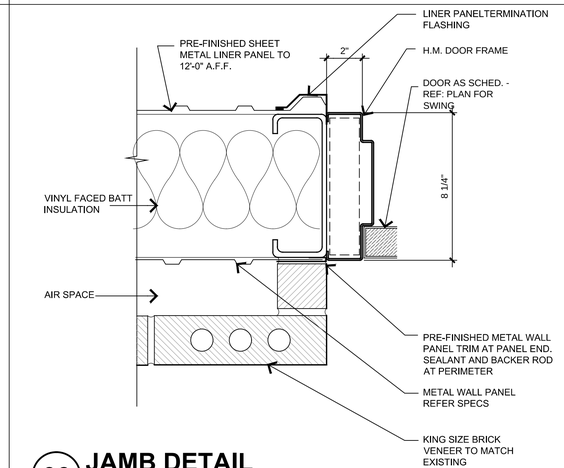

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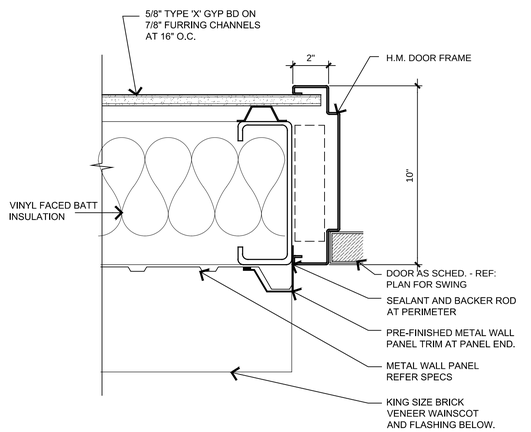

07 JAMB DETAIL
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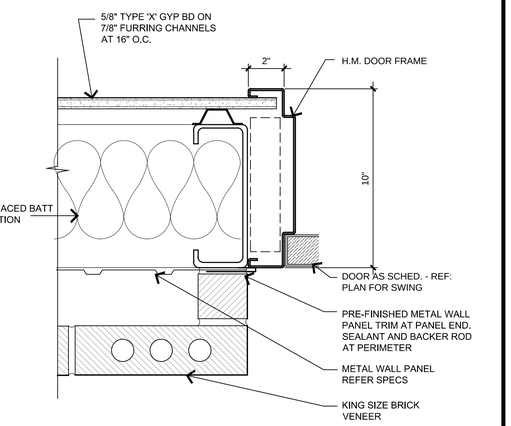

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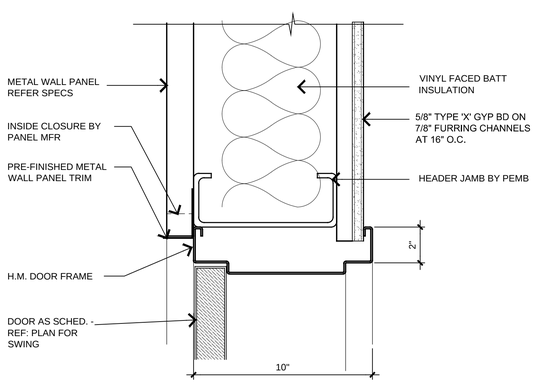

09 HEADER DETAIL
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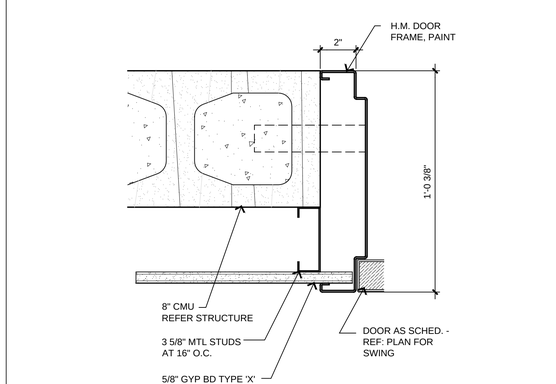

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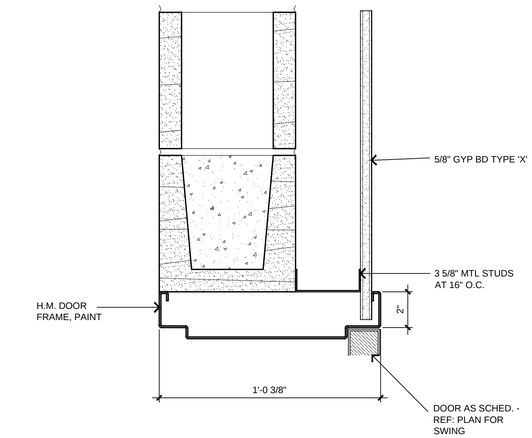

11 HEADER DETAIL
SCALE: 3"=1'-0"

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
HENNESSEY, OKLAHOMA
501 S. MAIN STREET

REVISIONS

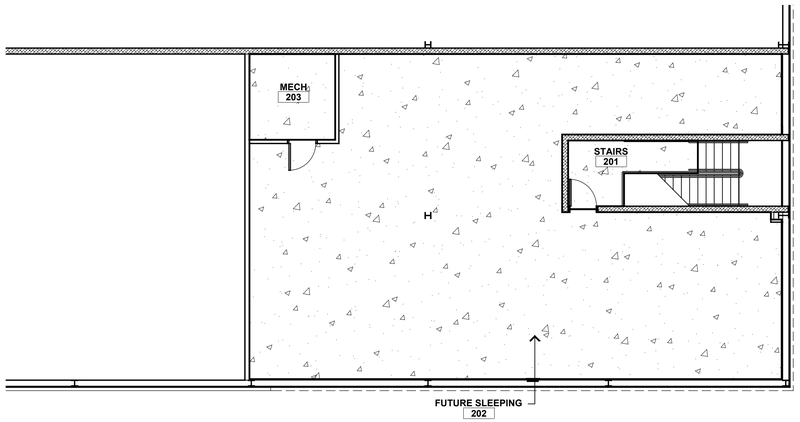
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: STAFF
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: DOOR JAMB/HEADER DETAILS
SHEET NO.: A-603

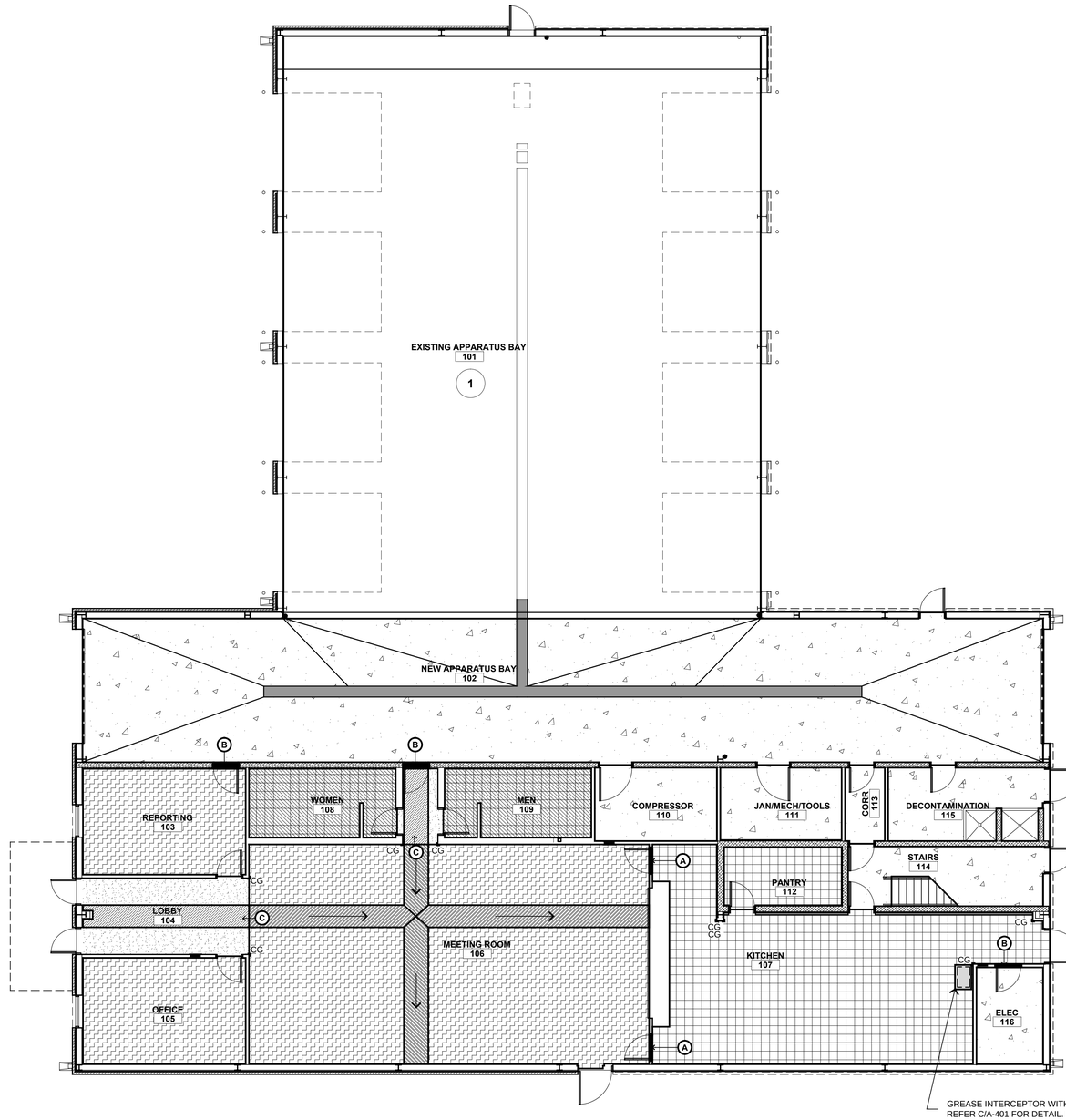
8/8/2022 2:09:49 PM



02 UPPER LEVEL FLOOR FINISH PLAN

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

NORTH



01 MAIN LEVEL FLOOR PLAN

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

NORTH

FINISH LEGEND:

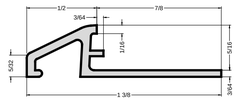
	SC: SEALED CONCRETE
	PFT-1: PORCELAIN TILE INSTALLATION: ASHLAR
	PFT-2: PORCELAIN QUARRY TILE INSTALLATION: SQUARE GRID
	WCPT-1: WALK-OFF CARPET INSTALLATION: ASHLAR
	WCPT-2: WALK-OFF CARPET INSTALLATION: MONOLITHIC
	LVT-1: LUXURY VINYL TILE INSTALLATION: ASHLAR
	LVT-2 : LUXURY VINYL TILE INSTALLATION: MONOLITHIC (PATTERN TO FOLLOW DIRECTION OF ARROW)
CG	STAINLESS STEEL CORNER GUARD

FINISH NOTES:

1. SEE A-710 FOR FINISH AND COLOR SCHEDULES.

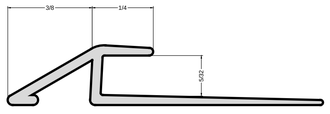
KEY NOTES:

1	EXISTING FLOORING TO REMAIN. NO WORK HERE.



A SCHLUTER AEU80

NTS



B SCHLUTER VPU 40 ATGB

NTS

C SCHLUTER VPS 40 ATGB

NTS

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
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SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: FR
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: FINISH FLOOR PLAN

SHEET NO.: A-701

8/8/2022 2:09:59 PM

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS								CEILING		METAL DOORS /FRAMES	NOTE	ROOM NO.
				NORTH		EAST		SOUTH		WEST						
		MATERIAL	MATERIAL	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH			
101	EXISTING APPARATUS BAY	-	-	-	-	-	-	-	-	-	-	-	-	-		101
102	NEW APPARATUS BAY	SC	SC	GYP	PT-3	GYP	PT-3	CMU	PT-3	GYP	PT-3	-	-	PT-2		102
103	REPORTING	LVT-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT-1, ACG	-	PT-2		103
104	LOBBY	WCPT-1, WCPT-2	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT-1, ACG	-	PT-2		104
105	OFFICE	LVT-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT-1, ACG	-	PT-2		105
106	MEETING ROOM	LVT-1, LVT-2	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	-	-	PT-2		106
107	KITCHEN	PFT-2	PFT-3, PFT-4, PFT-5	MRGYP	PT-1	MRGYP	PT-1	MRGYP	PT-1	MRGYP	PT-1	ACT-2, ACG	-	PT-2		107
108	WOMEN	PFT-1	CWT-2, CWT-3	MRGYP	PT-1	MRGYP	PT-3, CWT-1	MRGYP	PT-3, CWT-1	MRGYP	PT-3, CWT-1	MRGYP	PT-3	PT-2		108
109	MEN	PFT-1	CWT-2, CWT-3	MRGYP	PT-3, CWT-1	MRGYP	PT-3, CWT-1	MRGYP	PT-3, CWT-1	MRGYP	PT-3, CWT-1	MRGYP	PT-3	PT-2		109
110	COMPRESSOR	SC	RB	CMU	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT-1, ACG	-	PT-2		110
111	JANITOR	SC	RB	CMU	PT-1	MRGYP	PT-1	MRGYP	PT-1	MRGYP	PT-1	ACT-1, ACG	-	PT-2		111
112	PANTRY	PFT-2	PFT-3, PFT-4, PFT-5	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT-1, ACG	-	PT-2		112
113	CORRIDOR	SC	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT-1, ACG	-	PT-2		113
114	STAIRS	SC	RB	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	-	-	PT-2		114
115	DECONTAMINATION	SC	RB	CMU	PT-1	CMU	PT-1	CMU	PT-1	MRGYP	PT-1	ACT-2, ACG	-	PT-2		115
116	ELECTRICAL	SC	RB	GYP	-	GYP	-	GYP	-	GYP	-	ACT-2, ACG	-	PT-2		116
201	STAIRS	SC	RB	CMU	PT-1	CMU	PT-1	CMU	PT-1	CMU	PT-1	ACT-1, ACG	-	PT-2		
202	FUTURE SLEEPING	SC	RB	GYP	-	GYP	-	GYP	-	GYP	-	NOT FINISHED OUT	-	-		
203	MECHANICAL	SC	RB	GYP	-	GYP	-	GYP	-	GYP	-	NOT FINISHED OUT	-	-		
ROOM NO.	ROOM NAME	MATERIAL	MATERIAL	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	METAL DOORS /FRAMES	NOTE	ROOM NO.
		FLOOR	BASE	NORTH		EAST		SOUTH		WEST		CEILING				
				WALLS												

01 FINISH SCHEDULE

COLOR SCHEDULE

ABBREV	DESCRIPTION	MANUFACTURER	SERIES/COLLECTION	COLOR	SIZE	NOTES
ACG	ACOUSTICAL CEILING GRID	ROCKFON	CHICAGO METALLIC 260 ALUMINUM CAP	WHITE	15/16	
ACT-1	ACOUSTICAL TILE	ROCKFON	SONAR SQ 16100	WHITE.	2 X 2	
ACT-2	ACOUSTICAL TILE	ROCKFON	HYGENIC PLUS SQ31100	WHITE.	2 X 2	
CWT-1	CERAMIC WALL TILE	EMSER	CITIZEN F26CITIRE1224LP	RESIDENT SEMI-GLOSS	12 X 24	
CWT-2	CERAMIC WALL TILE	EMSER	CITIZEN	RESIDENT SEMI-GLOSS	6 X 12	
CWT-3	CERAMIC WALL TILE	EMSER	CITIZEN INSIDE & OUTSIDE CORNERS	RESIDENT SEMI-GLOSS	1 X 6	
GRT-1	GROUT	LATICRETE	EPOXY	24 NATURAL GREY	3/16" GRT JOINT	
GRT-2	GROUT	LATICRETE	EPOXY	45 RAVEN	3/16" GRT JOINT	
LVT-1	LUXURY VINYL TILE	MANNINGTON	NO RESERVATIONS XPRESS / STONE	AUDACIOUS	12 X 24	
LVT-2	LUXURY VINYL TILE	MANNINGTON	NO RESERVATIONS XPRESS / ABSTRACT	DYNAMIC	6 X 36	
MRGYP	MOISTURE RESIST GYPSUM BRD.	-	-	-	-	
PFT-1	PORCELAIN FLOOR TILE	EMSER	POCONO	OAK	6 X 24	
PFT-2	PORCELAIN FLOOR TILE	CROSSVILLE	CROSS COLORS MINGLES (CTS)	A675 STONEHENGE	12 X 12	
PFT-3	PORCELAIN FLOOR TILE	CROSSVILLE	CROSS COLORS MINGLES	A675/.10106ISCS	1 X 6	
PFT-4	PORCELAIN FLOOR TILE	CROSSVILLE	CROSS COLORS MINGLES	A675/.10608CBS	6 X 8	
PFT-5	PORCELAIN FLOOR TILE	CROSSVILLE	CROSS COLORS MINGLES	A675/.1PCL3689S A675/.1PCR3689S	6 X 8	
PT-1	PAINT	PAINT	BENJAMIN MOORE	SEAPEARL 961	-	
PT-2	PAINT	PAINT	BENJAMIN MOORE	GRAY HUSKIE 1473	-	
PT-3	PAINT	EPOXY PAINT	BENJAMIN MOORE	SEAPEARL 961	-	
RB	RUBBER BASE	TARKETT	TA4	GATEWAY WG	0'-4"	
SS	SOLID SURFACE	CORIAN	-	DOESKIN	-	
STN-1	STAIN	MINWAX	PERFORMANCE SERIES OIL-BASED	CLASSIC GRAY MW 271	-	-
WCPT-1	WALK-OFF CARPET	SHAW	STEPPIN' OUT	CHARCOAL 31549		
WCPT-2	WALK-OFF CARPET	SHAW	STEPPIN' OUT	RED 31850		

02 COLOR SCHEDULE

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
501 S. MAIN STREET
HENNESSEY, OKLAHOMA

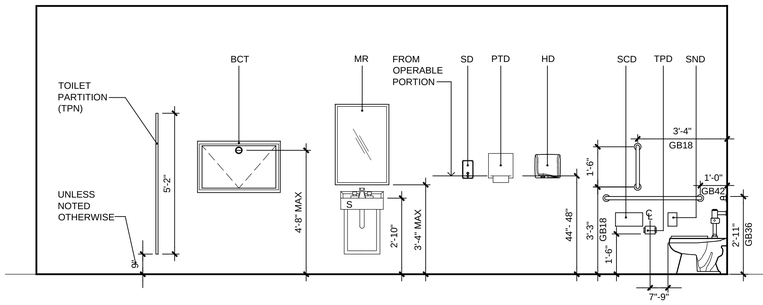
REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: FMR
CHECKED BY: GL

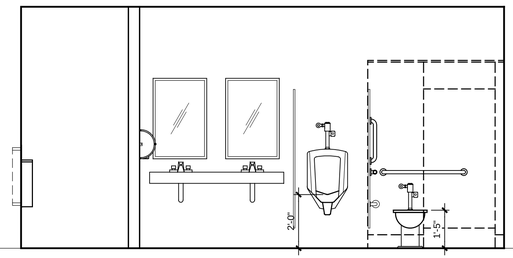
DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: FINISH & COLOR SCHEDULES
SHEET NO.: A-710



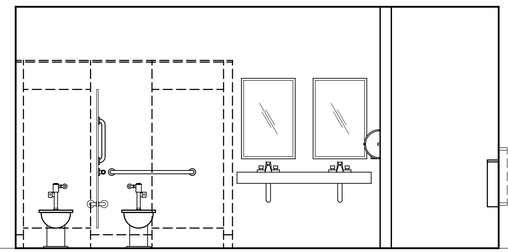
A TYP. RESTROOM ACCESSORIES MOUNTING HEIGHTS

SCALE: 3/8"=1'-0"



01 MEN'S RESTROOM - 109

SCALE: 3/8"=1'-0" 01/A-401

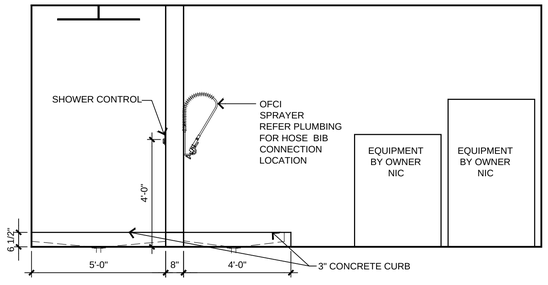


02 WOMEN'S RESTROOM - 108

SCALE: 3/8"=1'-0" 01/A-401

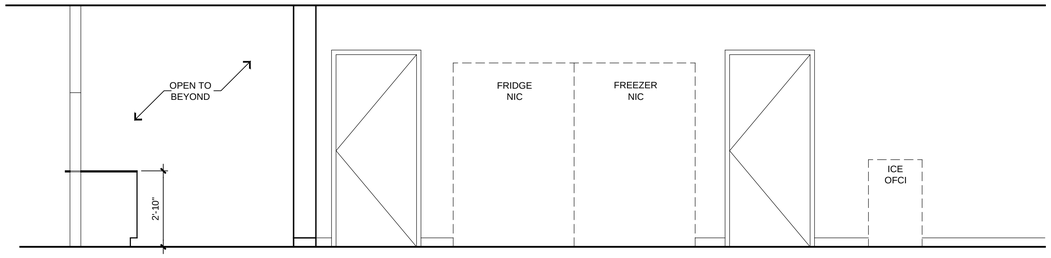
ACCESSORIES LEGEND:	
CH	COAT HOOK BOBRICK B-549
GB18	GRAB BAR 18" BOBRICK B-5806
GB36	GRAB BAR 36" BOBRICK B-5806
GB42	GRAB BAR 42" BOBRICK B-5806
MR	MIRROR BOBRICK B-169
PTD	PAPER TOWEL DISPENER BOBRICK B-9262
S	SINK SEE PLUMBING SCHEDULE PANNELL ASSOCIATES PROJECT #05312022-26A
TR	TRASH RECEPTACLE BOBRICK B-9279
TPD	TOILET PAPER DISPENSER BOBRICK B-540
TPN	TOILET PARTITION SCRANTON ECLIPSE BLACK RB

LEGEND:	
FE	FINISHED END
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OF	OWNER FURNISHED
OH	OTHER HAND



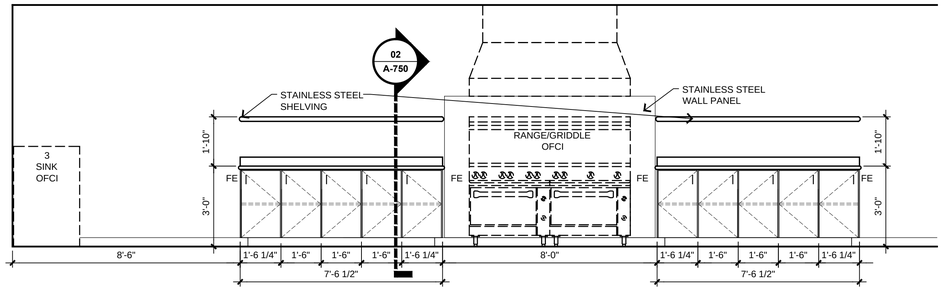
03 DECONTAMINATION - 115

SCALE: 3/8"=1'-0" 02/A-401



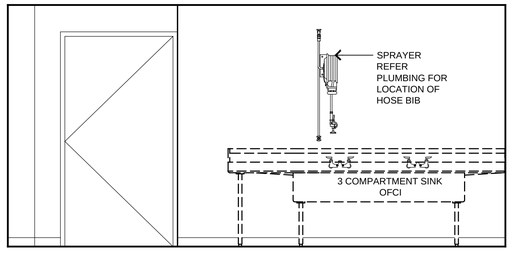
04 KITCHEN - 107 NORTH

SCALE: 3/8"=1'-0" 02/A-401



05 KITCHEN - 107 SOUTH

SCALE: 3/8"=1'-0" 02/A-401



06 KITCHEN - 107 WEST

SCALE: 3/8"=1'-0" 02/A-401

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

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SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

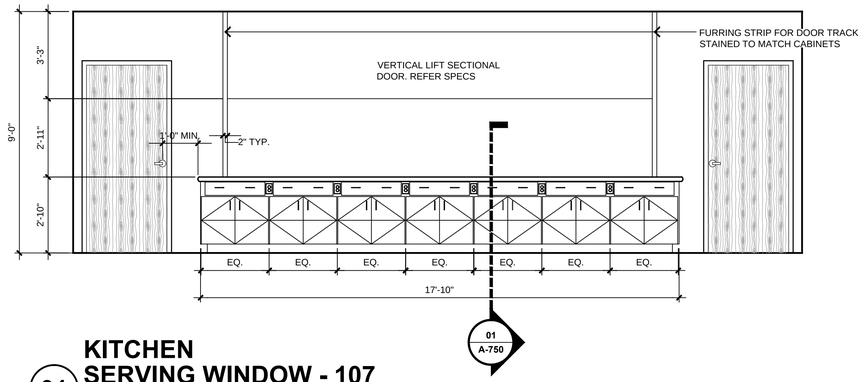
REVISIONS		
REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: FR
CHECKED BY: GL

DATE: 08/08/2022
PROJECT NO.: 2111

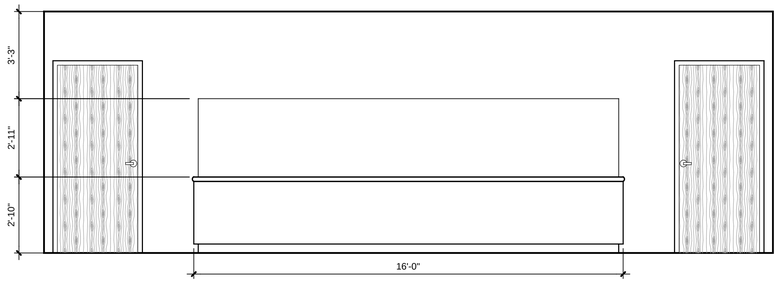
SHEET TITLE: INTERIOR ELEVATIONS

SHEET NO.: A-741



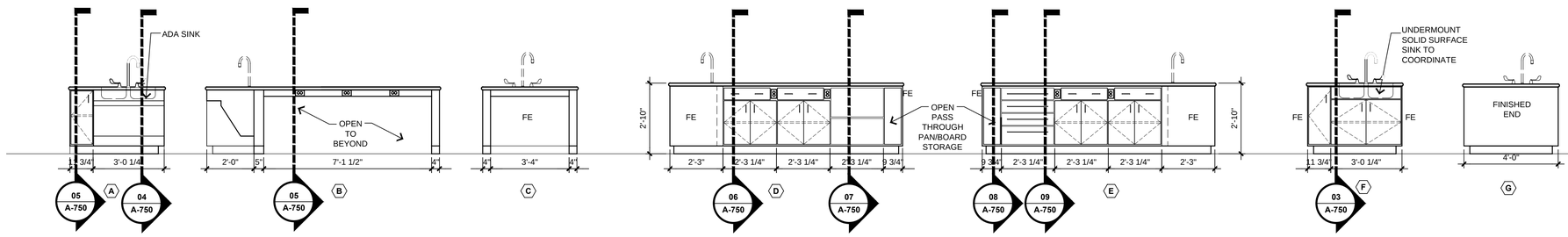
01 KITCHEN SERVING WINDOW - 107

SCALE: 3/8"=1'-0" 02/A-401



02 MEETING ROOM SERVING WINDOW - 106

SCALE: 3/8"=1'-0" 02/A-401



03 KITCHEN ISLAND - 107

SCALE: 3/8"=1'-0" 02/A-401

LEGEND:	
FE	FINISHED END
NIC	NOT IN CONTRACT
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OTHER HAND

ARCHITECTS IN PARTNERSHIP

ARCHITECTS
INTERIOR DESIGNERS
PLANNERS

3220 MARSHALL AVENUE
NORMAN, OK 73072
TEL: 405.360.1300
FAX: 405.360.1431

SEAL:

08/08/2022

HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: GL
DRAWN BY: FR
CHECKED BY: GL

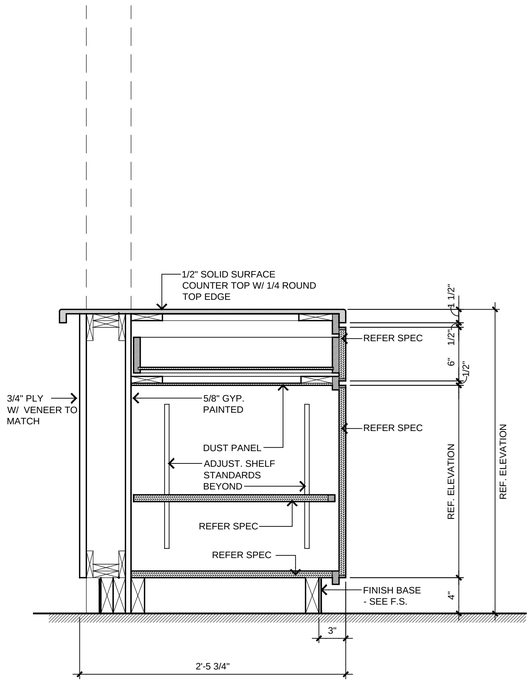
DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: ALTERNATE INTERIOR ELEVATIONS
SHEET NO.: A-742

8/8/2022 2:10:34 PM

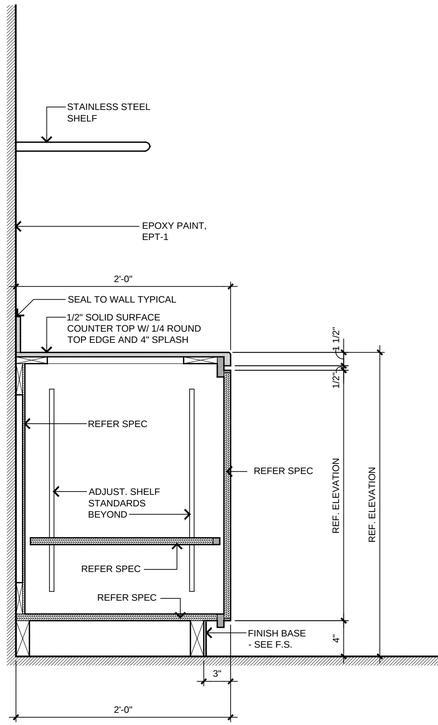
NOTES:

- ALL MILLWORK TO BE MARINE GRADE PLYWOOD WITH AN OAK VENEER, UNO.



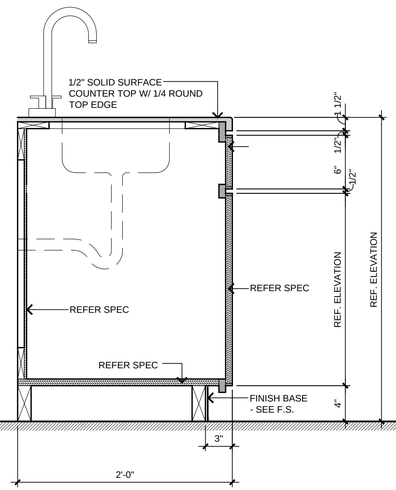
1 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"



2 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"



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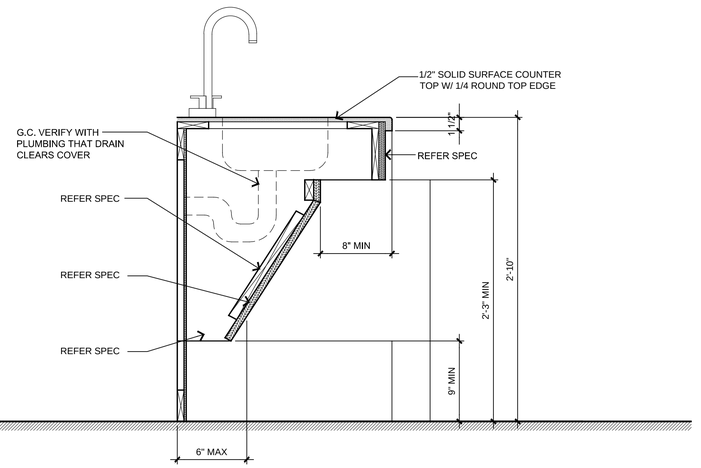

4 MILLWORK DETAIL

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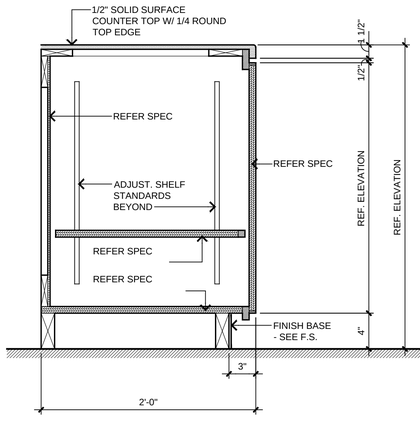
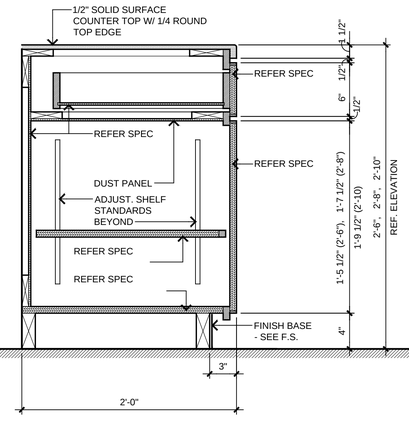


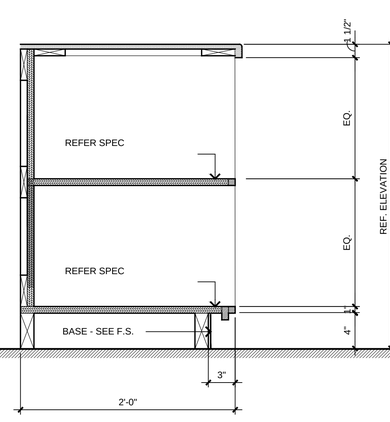
5 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"



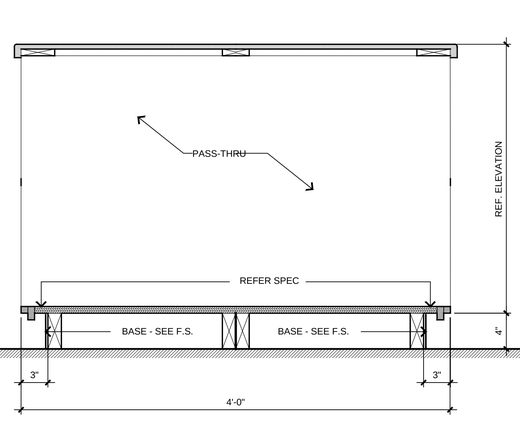
6 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"



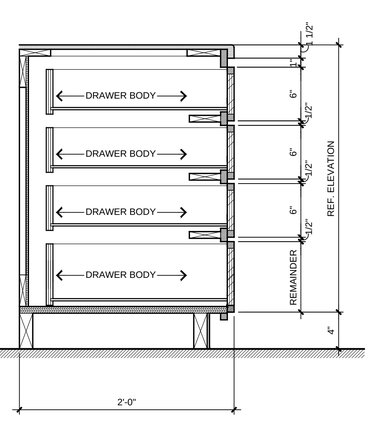
7 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"



8 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"



9 MILLWORK DETAIL

SCALE: 1 1/2""=1'-0"

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PROJ. MANAGER:	GL
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CHECKED BY:	GL
DATE:	08/08/2022
PROJECT NO.:	2111

SHEET TITLE: MILLWORK DETAILS

SHEET NO.: A-750

ABBREVIATIONS

Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
ACCU	AIR-COOLED UNIT
AD	ACCESS DOOR, AREA DRAIN
ADD	ADDENDUM
ADJ	ADJUSTABLE, ADJACENT
AFCV	AIRFLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFMS	AIRFLOW MEASURING STATION
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AGA	AMERICAN GAS ASSOCIATION
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AHRI	AIR-CONDITIONING, HEATING, AND CONTROL ASSOCIATION
ALT	ALTERNATE
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT/ARCHITECTURAL
AS	AIR SEPARATOR
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSE POWER
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CELSIUS
CAP	CAPACITY
CB	CATCH BASIN
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	CEILING
CO	CLEAN OUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
COMM	COMMUNICATIONS
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONDENSATE RETURN
CSR	CURRENT SENSING RELAY
CT	COOLING TOWER
CTI	COOLING TECHNOLOGY INSTITUTE
CU	CONDENSING UNIT
CV	CONSTANT VOLUME, CONTROL VALVE
CW	COLD WATER
CWP	CHILLED WATER PUMP
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
dB	DECIBEL
dBA	DECIBEL A-WEIGHTING
D	DEGREE
DB	DRY BULB
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE(S)
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA	DIAMETER
DN	DOWN
DW	DISTILLED WATER
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, VENT
DX	DIRECT EXPANSION
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ENVIRONMENTAL CONTROL CONTRACTOR
ECG	EGGCRATE GRILLE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EMG	EXTRUDED METAL GRILLE
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETC	ET CETERA
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
EXT	EXTERIOR
F	DEGREES FAHRENHEIT
F/SD	FIRE/SMOKE DAMPER
FAC	FIRE ALARM CONTRACTOR
FAR	FIRE ALARM RELAY
FAS	FIRE ALARM SYSTEM
FCO	FLOOR CLEAN OUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FEP	FIELD EQUIPMENT PANEL
FL. FLR	FLOOR
FM	FLW METER
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FP	FREEZE PROTECTION
FPM	FEET PER MINUTE
FPRH	FREEZE PROOF ROOF HYDRANT
FS	FLOOR SINK
FT	FOOT/FEET
FTR	FIN TUBE RADIATOR
FURN	FURNACE UNIT
G	GAS
GA	GAGE, GUAGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HC	HEATING COIL
HEPA	HIGH EFFICIENCY PARTICULATE AIR
HP	HEAT PUMP, HORSE POWER
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HYD	HYDRANT
I/O	INPUT/OUTPUT
IBC	INTERNATIONAL BUILDING CODE
ID	INDIRECT, INNER DIAMETER
IFB	INTEGRAL FACE/BYPASS
IFGC	INTERNATIONAL FUEL GAS CODE
ILK	INTERLOCK
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH(ES)
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
LA	LEAVING AIR
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND(S)
LB/HR	POUNDS PER HOUR
LAT	LEAVING AIR TEMPERATURE
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LV	LOUVER
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR, MEDICAL AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCF	ONE THOUSAND CUBIC FEET
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MEDICAL GAS
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRRENT PROTECTION
MS	MOP SINK
MTR	MOTOR
MV	MEDICAL VACUUM
N2	NITROGEN
N2O	NITROUS OXIDE
NC	NOISE CRITERIA, NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OC	ON CENTER
OCC	OCCUPANCY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ORD	OVERFLOW ROOF DRAIN
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH, Ø	PHASE
PHC	PREHEAT COIL
PIV	POST INDICATOR VALVE
PKG	PACKAGE
PLBG	PLUMBING
PM	PRESSURE MONITOR
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	DUCT RISER
RA	RETURN AIR
RAT	RETURN AIR TMPERATURE
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN, RETURN DIFFUSER
REC	RECESSED
RED	REDUCER
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY, ROOF HATCH
RHC	REHEAT COIL
RL/A	RELIEF AIR
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	ROOF VENT
RW	RAIN WATER
S15	STEAM AT PRESSURE NOTED
SA	SUPPLY AIR
SAN	SANITARY
SAT	SUPPLY AIR TEMPERATURE
SD	SUPPLY DIFFUSER, SMOKE DAMPER, STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SEI	STRUCTURAL ENGINEERING INSTITUTE
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SM	SURFACE MOUNT
SMACNA	SHEET METAL AND AIR-CONDITIONING CONTRACTORS ASSOCIATION
SP	STANDPIPE, STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	SANITARY SEWER
STM	STEAM
T	THERMOSTAT, TON(S)
TAB	TESTING, ADJUSTING, AND BALANCING
TD	TEMPERATURE DROP
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TP	TOTAL PRESSURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TWP	TOWER WATER PUMP
TWR	TOWER WATER RETURN
TWS	TOWER WATER SUPPLY
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
UV	ULTRAVIOLET
V	VENT, VOLT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VFD	VARIABLE FREQUENCY DRIVE
VP	VELOCITY PRESSURE
VTR	VENT THROUGH ROOF
W	WASTE, WATT
W/	WITH
WO	WITHOUT
WAGD	WASTE ANESTHESIA GAS DISPOSAL
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAGE
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
YCO	YARD CLEANOUT
YD	YARD DRAIN
(E)	EXISTING

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLING CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
CH	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CHWP	CHILLED WATER PUMP
DBP	DOMESTIC WATER BOOSTER PUMP
DC	DUCT MOUNTED COIL
DCP	DOMESTIC WATER CIRCULATING PUMP
EF	EXHAUST FAN
EDC	ELECTRIC DUCT COIL
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FP	FIRE PUMP
GI	GREASE INTERCEPTOR
GRV	GRAVITY ROOF VENTILATOR
HWP	HEATING WATER PUMP
HRU	HEAT RECOVERY UNIT
PRV	POWER ROOF VENTILATOR
RE	RETURN/EXHAUST FAN
RTU	ROOFTOP UNIT
SP	SUMP PUMP
UH	UNIT HEATER
WH	WATER HEATER

PLUMBING GENERAL NOTES

A. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.

B. PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.

C. PITCH UNDERFLOOR STORM PIPING 3" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.

D. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.

E. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.

F. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.

G. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.

H. CONTRACTOR SHALL VERIFY DEPTH, SIZE, AND LOCATION OF ALL EXISTING UTILITIES IN FIELD PRIOR TO STARTING WORK.

I. CONTRACTOR SHALL FURNISH AND INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY LOCAL GOVERNING AUTHORITIES.

J. DO NOT RUN ANY PLUMBING PIPING OR ANY OTHER ITEMS ABOVE OPERATING ROOMS, PROCEDURE ROOMS. OR CATH LABS.

K. DO NOT BLOCK DUCTWORK ACCESS DOORS WITH PIPING.

L. ALL PLUMBING VENTS AND OTHER EXHAUSTS MUST BE 25'-0" FROM ANY OUTDOOR AIR INTAKE.

M. ALL EXPOSED LINES TO BE CHROME PLATED.

N. WHEN PIPING IS TO BE ROUTED ON AN EXTERIOR WALL, THE PIPING SHALL BE IN THE THERMAL SIDE OF THE WALL INSULATION.

O. EACH FIXTURE SHALL HAVE SHUTOFF VALVES ON BOTH HOT AND COLD WATER LINES.

P. LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS SHALL BE COORDINATED WITH THE HVAC CONTRACTOR.

PLUMBING AND PIPING SYMBOLS

REVISION NUMBER - SHOWN ON PLANS

POINT WHERE NEW CONNECTS TO EXISTING

NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS

KEYNOTE

CONTINUATION SYMBOL

Room 4 — ROOM NAME AND NUMBER

ITEM TO BE DEMOLISHED

AREA NOT IN CONTRACT

2" — PIPE SIZE TAG (DIAMETER)

ABOVE GROUND PIPING

1/8" / 12" SLOPE — PIPE SLOPE TAG

BELOW GROUND PIPING

INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG

(E) — EXISTING PIPE TAG

PIPING BEING DEMOLISHED

G — NATURAL GAS

PG — PROPANE GAS

CA — COMPRESSED AIR

CW — DOMESTIC COLD WATER

S-CW — SOFT COLD WATER

RO — REVERSE OSMOSIS WATER

HW — HOT WATER

HW 140° — HOT WATER 140°

HW-R — HOT WATER RECIRCULATION

HW-R 140°- — HOT WATER RECIRCULATION 140°

GV — GREASE VENT

GW — GREASE WASTE

IW — INDIRECT WASTE

OV — OIL VENT

OW — OIL WASTE

PD — PUMP DISCHARGE

V — SANITARY VENT

SS — SANITARY SEWER

SD — STORM DRAINAGE

OSD — OVERFLOW STORM DRAINAGE

CO2 — CARBON DIOXIDE

DA — DENTAL AIR

DV — DENTAL VACUUM

MA — MEDICAL AIR

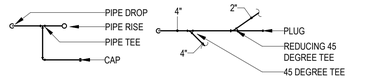
MV — MEDICAL VACUUM

N2 — NITROGEN

N2O — NITROUS OXIDE

O2 — OXYGEN

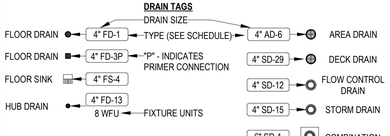
WAGD — WASTE ANESTHESIA GAS DISPOSAL



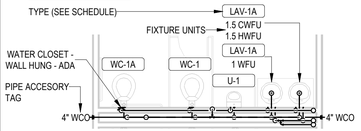
PIPE ACCESSORY LEGEND

- DOMESTIC WATER METER
- BALANCING VALVE
- 1/4 TURN BALL VALVE
- CHECK VALVE
- 3-WAY MIXING VALVE
- MOTORIZED CONTROL VALVE
- 3 WAY MOTORIZED CONTROL VALVE
- PRESSURE REDUCING VALVE
- REFRIGERANT SOLENOID VALVE
- BUTTERFLY VALVE

DRAIN TAGS



PLUMBING FIXTURE TAGS



PROJECT GENERAL NOTES

A. ALL WORK AND MATERIAL SHALL COMPLY WITH ALL GOVERNING CODES, SAFETY ORDERS, AND REGULATIONS.

B. CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.

C. ANY EQUIPMENT OR DEVICE NOT LISTED AS REFERENCE PRODUCT ON THE SCHEDULE SHALL FIT IN THE SPACE PROVIDED WITH PROPER CLEARANCES INCLUDING ACCEPTABLE MANUFACTURERERS LISTED IN THE SPECIFICATIONS. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT DIFFERENT THAN THE REFERENCE PRODUCT FOR APPROVAL PRIOR TO INSTALLATION.

D. BY NECESSITY, THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS THE SOLUTION OF WHICH HAS IMPACTED DESIGNS OF OTHER DISCIPLINES (ELECTRICAL, ARCHITECTURAL, STRUCTURAL, PLUMBING, ETC). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, AND/OR MODEL NUMBERS ARE SUBMITTED AND APPROVED, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. THE SUBSTITUTING CONTRACTORS SHALL BE RESPONSIBLE FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTOR'S OPTION.

E. ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR MAY AT THEIR OPTION MOIDFY PIPE ROUTING IN ORDER TO CREATE A SYSTEM THAT MEETS THE INTENT OF THIS SET OF CONSTRUCTION DOCUMENTS.

F. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) ARE COMPLIMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ALL CONFLICTS SHALL BE BROUGHT TO THE ARCHITECT'S OR ENGINEER'S ATTENTION IN ORDER TO ALLOW A CLARIFICATION TO BE ISSUED. ANY WORK COMPLETED WITHOUT THE CLARIFYING INFORMATION IS AT THE CONTRACTOR'S FINANCIAL RISK.

G. LOCATE ALL TERMINAL UNITS, DAMPERS, VALVES, AND OTHER EQUIPMENT REQUIRING ACCESS ABOVE LAY-IN CEILING. IF EQUIPMENT MUST BE LOCATED ABOVE GYPSUM CEILING OR ANOTHER TYPE OF INACCESSIBLE CEILING, INSTALL ACCESS PANELS AND COORDINATE THE LOCATION WITH GENERAL CONTRACTOR.

H. DO NOT RUN ANY HVAC/PLUMBING PIPING, DUCTWORK, OR ANY OTHER ITEMS ABOVE I.T., TELECOM, OR ELECTRICAL ROOMS UNLESS IT SERVES JUST THAT ROOM.

I. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

J. THE MECHANICAL CONTRACTOR SHALL REVIEW EXISTING EQUIPMENT TO BE REUTILIZED UNDER THIS PROJECT AND COMPILE A CONDITIONS REPORT FOR THE OWNER.

K. WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

L. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

M. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

N. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

O. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

P. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

Q. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

R. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

S. FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO SPECIFICATION.

T. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

U. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

V. REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.

W. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

X. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

Y. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

Z. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

ZZ. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

PLUMBING SHEET INDEX

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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REMODEL/ADDITION

HENNESSEY, OKLAHOMA

501 S. MAIN STREET

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: BEA
CHECKED BY: SAT

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: PLUMBING GENERAL

SHEET NO.: P-001

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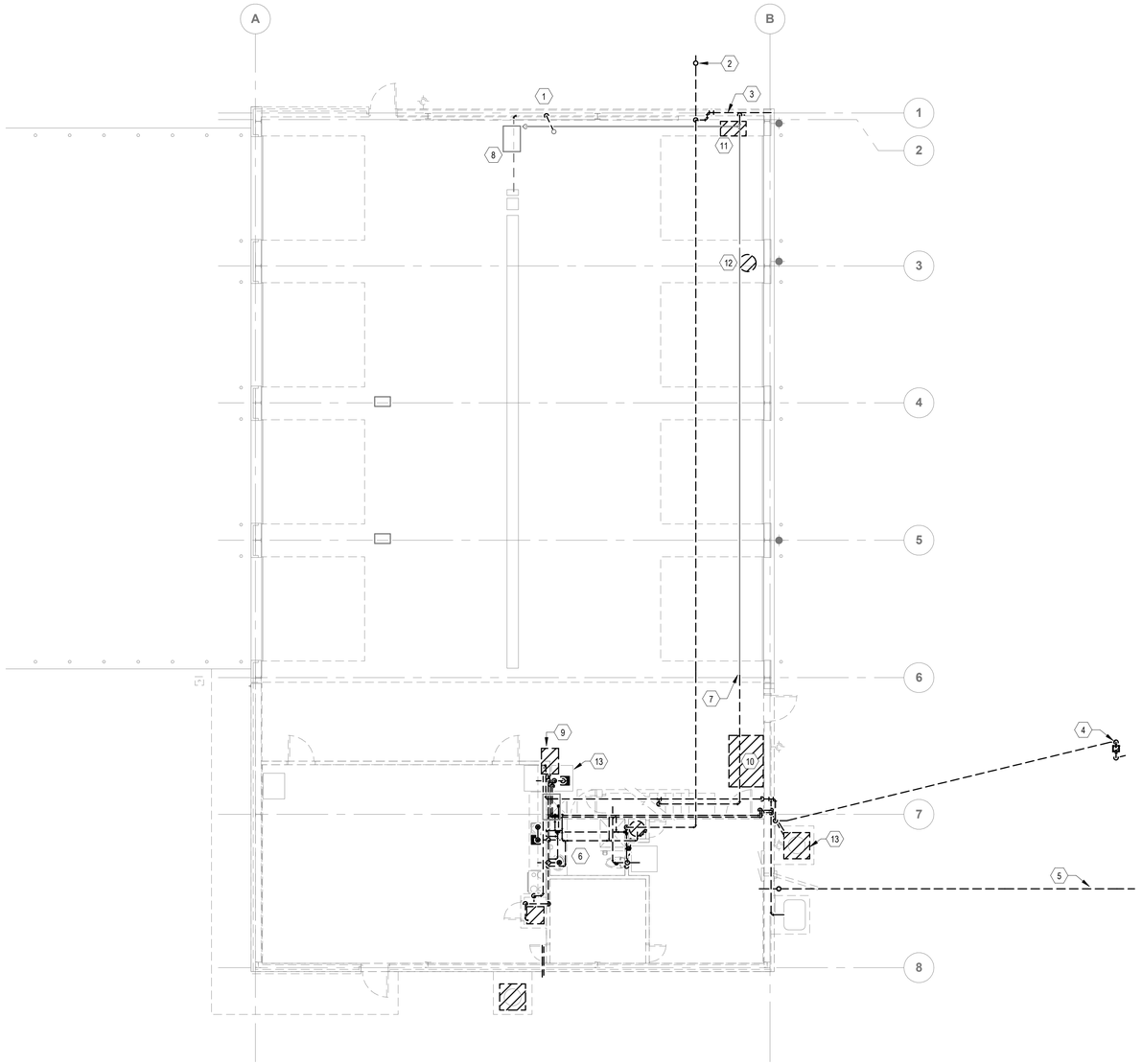

1 P-111 FIRST FLOOR PLUMBING DEMOLITION PLAN
1/8" = 1'-0"
0 4' 8' 16'

KEYNOTES

1. DEMOLISH VENT PIPING IN WALL, LEAVING PIPE BELOW TO EXTEND, AND PIPE THROUGH ROOF.
2. COORDINATE WITH UTILITY TO REPLACE/RELOCATE BUILDING SHUTOFF VALVE FOR INCOMING DOMESTIC WATER AS REQUIRED.
3. REMOVE EXISTING FIRE HOSE CONNECTION. COORDINATE WITH OWNER TO RETAIN HOSE CONNECTION FOR REUSE OR REPLACE WITH NEW.
4. COORDINATE WITH UTILITY TO REPLACE/RELOCATE GAS METER.
5. LOCATE AND REMOVE EXISTING SANITARY SERVICE. REFER TO CIVIL DRAWINGS.
6. DEMOLISH COMPLETE EXISTING FIXTURES AND DOMESTIC AND SANITARY SYSTEM.
7. DEMOLISH GAS PIPING TO POINT INDICATED.
8. GAS UNIT HEATER TO REMAIN.
9. REMOVE GAS UNIT HEATER TO BE REINSTALLED DURING CONSTRUCTION.
10. REMOVE COMPRESSOR SYSTEM TO BE RELOCATED. PROTECT PIPING SYSTEM TO RELOCATE CONNECTIONS IN DURING CONSTRUCTION.
11. REMOVE HOTSY WASH SYSTEM TO BE RELOCATED DURING CONSTRUCTION.
12. REMOVE PORTABLE AIR COMPRESSOR SYSTEM TO BE RELOCATED DURING CONSTRUCTION.
13. REMOVE ICEMAKER AND PAIRED CONDENSING UNIT FOR REUSE. PRESERVE WATER FILTRATION SYSTEM FOR INSTALLATION IN NEW CONSTRUCTION PHASE.

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	SAT
DRAWN BY:	BEA
CHECKED BY:	SAT

DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: FIRST FLOOR PLUMBING DEMOLITION PLAN

SHEET NO.: P-111

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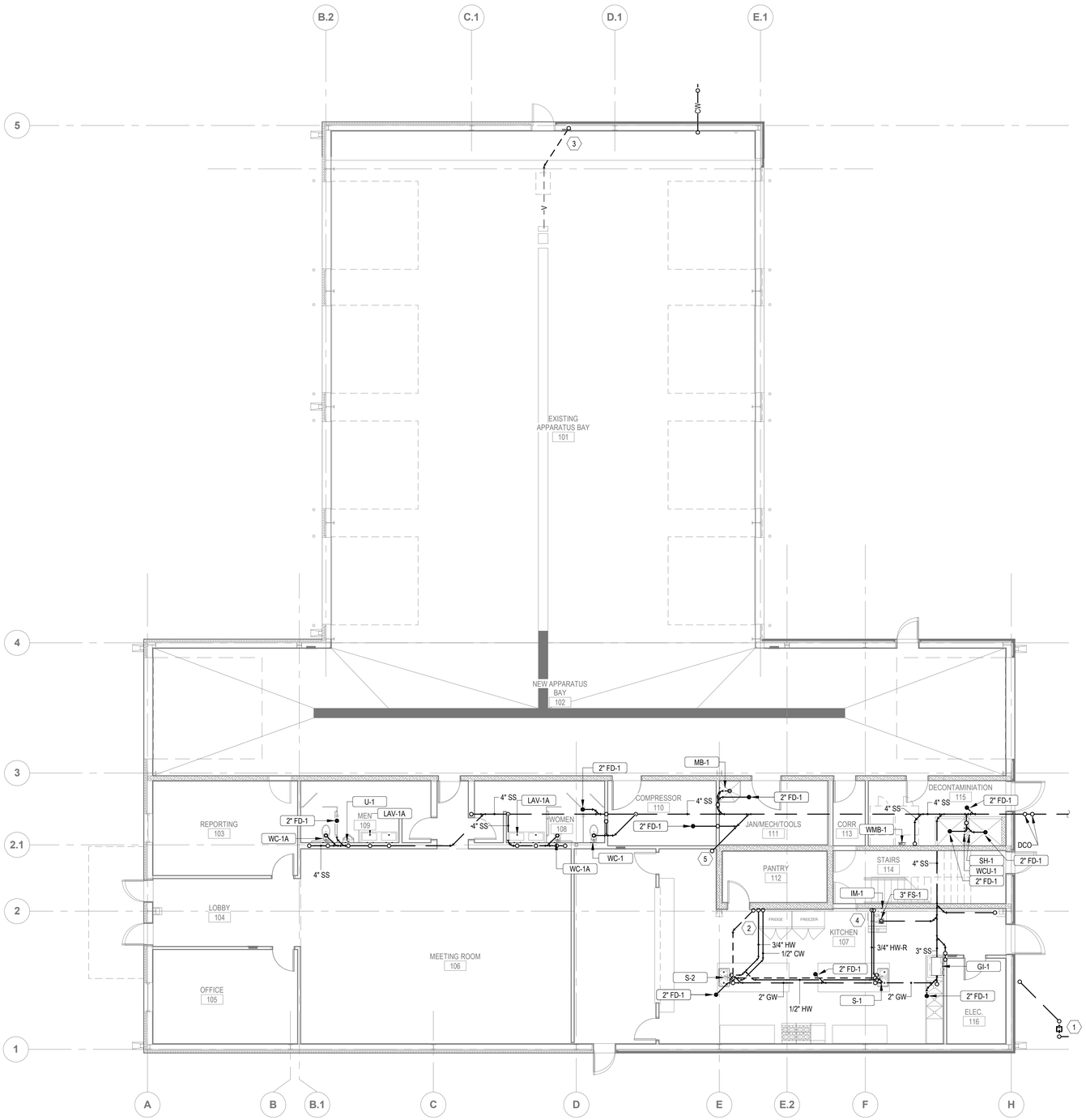
KEYNOTES

1. COORDINATE WITH UTILITY TO REPLACE/RELOCATE GAS METER.
2. ROUTE HW AND CW IN FLOOR TO SERVE ISLAND AND UP THROUGH WALL.
3. EXTEND EXISTING VENT FROM TRENCH DRAIN AND CONNECT TO EXISTING VENT TO ROOF.
4. ROUTE HW-R AND CW IN FLOOR TO SERVE ISLAND AND UP THROUGH WALL.
5. ROUTE 4" SS TO 4" FCO THAT CAN BE EXTENDED AS NEEDED FOR SECOND FLOOR BUILDOUT.



1 P-200 UNDERFLOOR PLUMBING PLAN
1/8" = 1'-0"
0 4' 8' 16'

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PROJ. MANAGER:	SAT
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DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: UNDERFLOOR PLUMBING PLAN

SHEET NO.: P-200

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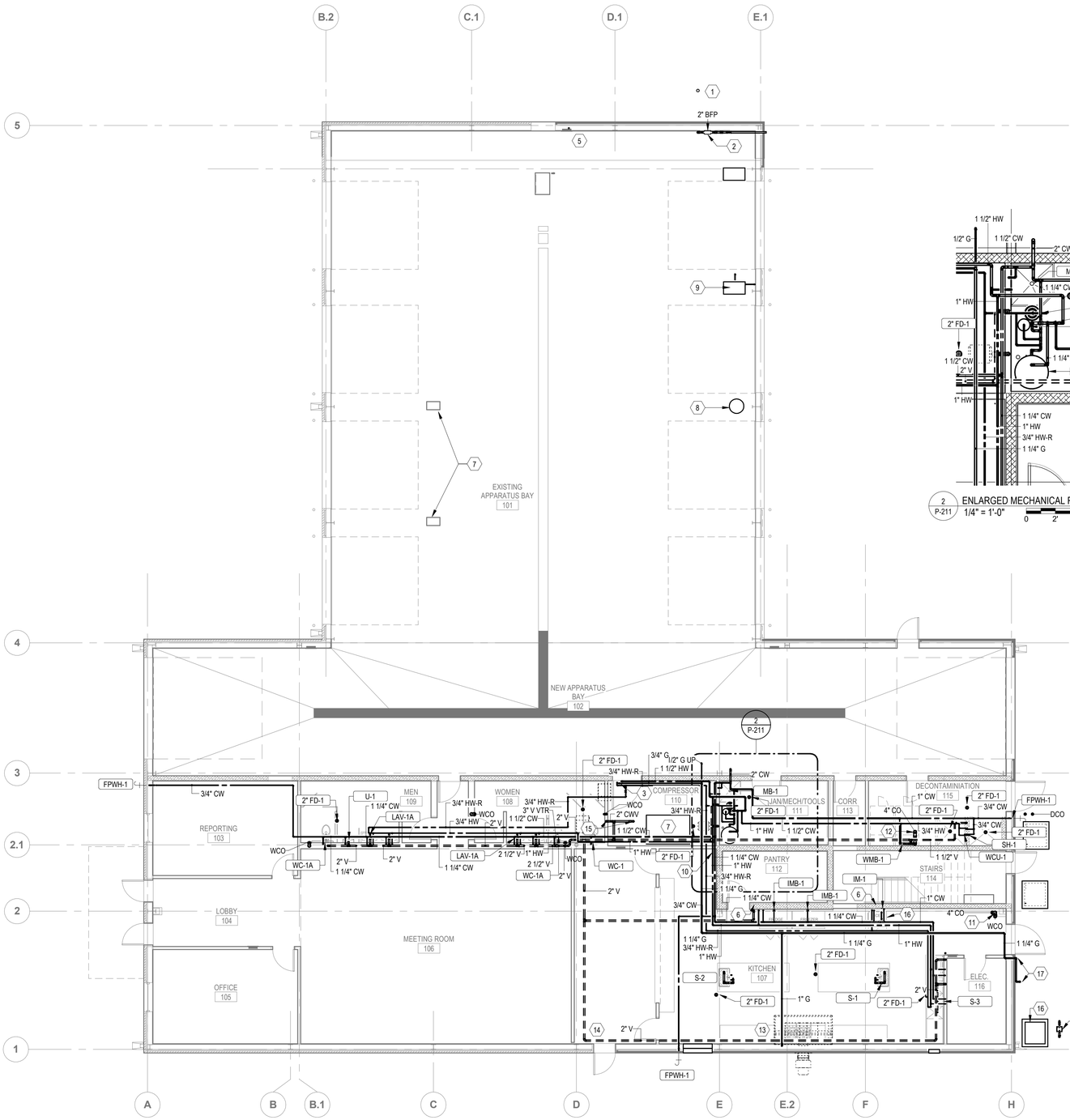
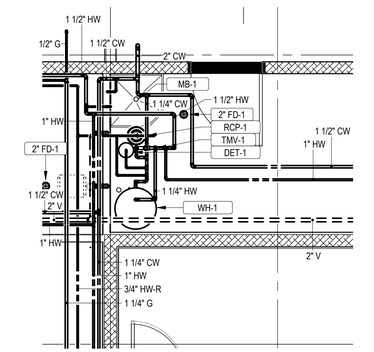


1 P-211 FIRST FLOOR PLUMBING PLAN
1/8" = 1'-0"
0 4' 8' 16'



2 P-211 ENLARGED MECHANICAL ROOM ABOVE FLOOR PLUMBING PLAN
1/4" = 1'-0"
0 2' 4' 8'

KEYNOTES

1. COORDINATE WITH UTILITY TO REPLACE/RELOCATE BUILDING SHUTOFF VALVE FOR INCOMING DOMESTIC WATER AS REQUIRED.
2. INSTALL 2" BACKFLOW PREVENTION ON MAIN SERVICE THEN TAKEOFF FOR EXTERIOR HOSE CONNECTION WITH ISOLATION VALVE AT WALL. COORDINATE WITH OWNER TO REUSE OR REPLACE HOSE CONNECTION FROM DEMO PHASE.
3. ROUTE PIPING TO/FROM 2ND LEVEL MECHANICAL ROOM.
4. COORDINATE WITH UTILITY TO REPLACE/RELOCATE GAS METER. ENSURE PROPER AHJ CLEARANCES ARE MET. GAS LOAD IS ESTIMATED TO BE 1650 CFH AT 2.0 PSI.
5. EXTEND EXISTING VENT FROM TRENCH DRAIN AND CONNECT TO EXISTING VENT TO ROOF.
6. ROUTE HW AND CW DOWN THROUGH WALL AND IN/UNDER FLOOR TO SERVE ISLAND.
7. INSTALL EXISTING AIR COMPRESSOR AT NEW LOCATION WITH WITH PIPING TO EXISTING FLOATING HOSE REELS.
8. LOCATION OF RELOCATED STAND ALONE AIR COMPRESSOR. COORDINATE LOCATION WITH OWNER.
9. LOCATION OF RELOCATED HOTSY WASH EQUIPMENT. COORDINATE LOCATION WITH OWNER AND ROUTE WATER AND GAS SERVICES DOWN FROM ABOVE.
10. 4" FCO THAT CAN BE EXTENDED AS NEEDED FOR SECOND FLOOR BUILDOUT.
11. COORDINATE WITH GC, EXTEND 4" SS ABOVE CEILING AND TERMINATE WITH CLEANOUT THAT CAN BE EXTENDED AS NEEDED FOR SECOND FLOOR BUILDOUT. CONCEAL PIPE AND PROVIDE WCO AT 2' AFF.
12. EXTEND 4" SS ABOVE CEILING, AVOIDING VENT PIPE AND TERMINATING WITH CLEANOUT THAT CAN BE USED TO SERVE SECOND FLOOR BUILDOUT.
13. COORDINATE WITH GC, EXTEND 4" SS ABOVE CEILING AND TERMINATE WITH CLEANOUT. CONCEAL PIPE AND PROVIDE WCO AT 2' AFF.
14. VENT PIPING LAYOUT AS SHOWN IS TO ALLOW SPACE FOR FUTURE SECOND FLOOR DRAIN PIPING.
15. COORDINATE COMBINATION WASTE/VENT LOCATION ABOVE CEILING TO AVOID DUCTWORK FROM MECHANICAL ROOM ABOVE. ROUTE SS DRAIN UP TO FLOOR DRAIN SERVING SECOND FLOOR MECHANICAL ROOM.
16. COORDINATE WITH OTHER TRADES AND INSTALL ICEMAKER WITH WATER FILTRATION SYSTEM AND PAIRED CONDENSING UNIT PREVIOUSLY REMOVED AND PRESERVED DURING DEMOLITION. FOLLOW MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
17. COORDINATE GAS ENTRY WITH GC AND ELECTRICAL CONTRACTOR.

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	SAT
DRAWN BY:	BEA
CHECKED BY:	SAT
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	FIRST FLOOR PLUMBING PLAN
SHEET NO.:	P-211

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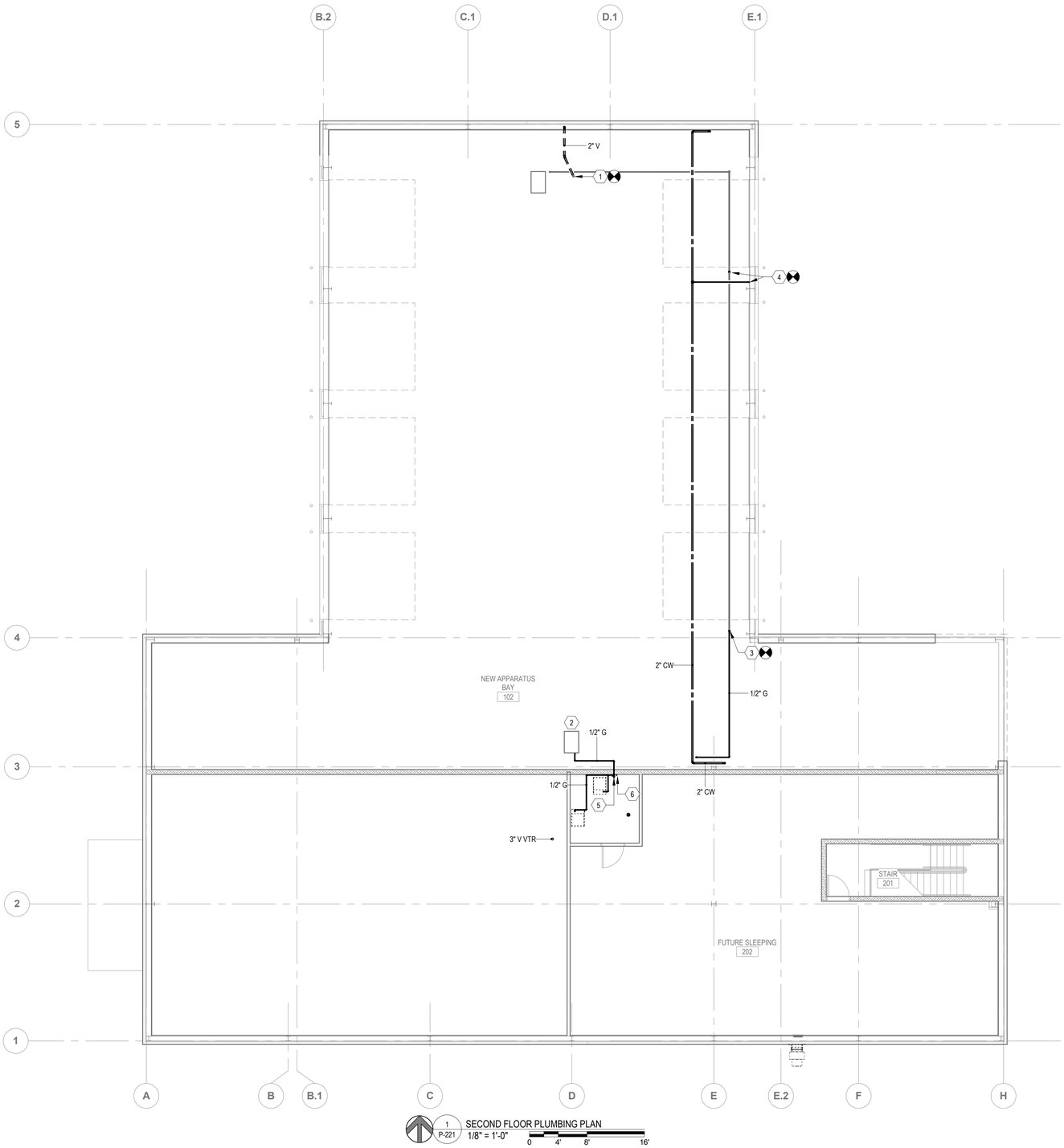

1 P-221 SECOND FLOOR PLUMBING PLAN
1/8" = 1'-0"
0 4' 8' 16'

KEYNOTES

1. EXTEND EXISTING VENT FROM TRENCH DRAIN AND CONNECT 2" VENT TO EXISTING.
2. INSTALL EXISTING GAS UNIT HEATER IN NEW LOCATION AS INDICATED WITH ESTIMATED MINIMUM 135" INSTALL HEIGHT TO NOT OBSTRUCT VEHICLE PATH.
3. CONNECT NEW 1/2" GAS PIPING TO EXISTING PIPING.
4. COORDINATE LOCATION WITH OWNER OF HOTSY WASH EQUIPMENT AND ROUTE WATER AND GAS SERVICES DOWN.
5. ROUTE 3/4" GAS PIPE THRU FLOOR WITH PROPER FIRE STOP PROTECTION TO MAINTAIN FIRE RATING THRU FLOOR.
6. ROUTE CW, HW, HW-R THROUGH FLOOR TO CEILING LEVEL AND STUB BRANCH WITH SHUT-OFF VALVES AND PIPE LENGTH WITH CAP FOR FUTURE BUILD-OUT. PROVIDE PROPER FIRE STOP PROTECTION TO MAINTAIN FIRE RATING THRU FLOOR.

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HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	SAT
DRAWN BY:	BEA
CHECKED BY:	SAT
DATE:	08/08/2022
PROJECT NO.:	2111

SHEET TITLE: SECOND FLOOR PLUMBING PLAN

SHEET NO.: P-221

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BACK FLOW PREVENTER SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	LINE SIZE	TYPE	REMARKS
BFP-1	ZURN	975XL	2"	REDUCING PRESSURE	

THERMOSTATIC MIXING VALVE SCHEDULE

ID	MANUFACTURER	MODEL	QTY	MATERIAL	FINISH	FLUID PROPERTIES							VALVE PROPERTIES		REMARKS
						TYPE	LWT SETPOINT	EWT HOT	EWT COLD	FLOW	MIN FLOW	MAX PD	INLET SIZE	OUTLET SIZE	
TMV-1	LAWLER MFG	LAWLER 803 -73004	1	LEAD FREE BRASS	ROUGH BRONZE	DOM. WATER	110 °F	140 °F	40 °F	18.0 GPM	0.5 GPM	5.0 psi	1 1/4"	1 1/2"	ASSE 1017 COMPLIANT

Grand total: 1

GAS-FIRED WATER HEATER SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	TYPE	GAS-FIRED HEAT EXCHANGER							THERMAL EFF	UNIT WEIGHT	VOLT	PH	REMARKS
				INPUT	CAP	EFF	GAS BURNER FUEL TYPE	GAS BURNER FUEL PRESS AVAIL	WATERSIDE FLOW DESIGN	WATERSIDE MAX TEMP RISE					
WH-1	AO SMITH	BTH-150	CONDENSING	150000 Btu/h	147000 Btu/h	98.0%	NG	2.0 psi	18.0 GPM	90 °F	98%	1388 lb	120 V	1	PROVIDE OPTIONAL CONCENTRIC VENT KIT, CONDENSATE NEUTRALIZATION KIT, AND LEAK DETECTION KIT.

DOMESTIC EXPANSION TANK SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	MATERIAL	FINISH	SYSTEM	TYPE	ARRANGEMENT	VOL	MAX ACCEPTANCE FACTOR	ACCEPTANCE VOL	PRESS RELIEF	PRECHARGE PRESS	UNIT DIMENSIONS		UNIT WEIGHT	REMARKS
													DIAMETER	HEIGHT		
DET-1	WATTS	DETA-5	STEEL - POLYPROPYLENE LINING	RED OXIDE PRIMER	DOM. WATER	FIXED BUTYL BLADDER	INLINE	3.5 gal	0.65	2.3 gal	100 psi	40 psi	10"	14"	22 lb	

DOMESTIC CIRCULATING PUMP SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	PUMP DESIGN FLOW	PUMP HEAD	VOLT	PH	REMARKS
RCP-1	ARMSTRONG	COMPASS H	0.5 GPM	5.3 FT	120 V	1	

FLOOR DRAIN SCHEDULE

ID	DESCRIPTION	REFERENCE PRODUCT	MODEL	QTY	MATERIAL DESCRIPTION		PRIMER CONNECTION	WASTE PIPE SIZE	VENT PIPE SIZE	PRIMER PIPE SIZE	SPECIFICATION	REMARKS
					DRAIN BODY	STRAINER						
FD-1	FLOOR DRAIN	WATTS	FD-100-A	11	EPOXY COATED CAST IRON	NICKEL BRONZE	No	2"	2"		EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB OUTLET.	
FS-1	FLOOR SINK	ZURN	Z1910	1	EPOXY COATED CAST IRON	ALUMINUM		3"	2"	---	8" SQUARE X 6" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB OUTLET.	

Grand total: 12

GREASE INTERCEPTOR SCHEDULE

ID	REFERENCE PRODUCT	MODEL	QTY	TYPE	MATERIAL DESCRIPTION	COVER DESCRIPTION	DESIGN FLOW	CAPACITY GREASE	INSTALLATION BOTTOM OF EQUIPMENT ELEV	INSTALLATION ESTIMATED RISER HEIGHT	PIPE CONNECTIONS INLET INVERT	PIPE CONNECTIONS INLET DIA	PIPE CONNECTIONS OUTLET INVERT	PIPE CONNECTIONS OUTLET DIA	DIMENSIONS LENGTH	DIMENSIONS WIDTH	DIMENSIONS HEIGHT	REMARKS
GI-1	WATTS	WD-35	1	RECESSED	EPOXY COATED STEEL	SKID-PROOF	35.0 GPM	70.00 lbm	2' - 1"	0' - 6"	0' - 9"	3"	0' - 9"	3"	2' - 6"	1' - 6"	1' - 7"	

Grand total: 1

PLUMBING FIXTURE SCHEDULE

ID	DESCRIPTION	REFERENCE PRODUCT	MODEL	QTY	MATERIAL DESCRIPTION	FINISH	TRIM REFERENCE PRODUCT	TRIM MODEL	TRIM TYPE	FLOW FIXTURE WATER FLOW	FLUSH FIXTURE VOL. PER FLUSH	WASTE PIPE SIZE	INDIRECT WASTE PIPE SIZE	VENT PIPE SIZE	COLD WATER PIPE SIZE	HOT WATER PIPE SIZE	REMARKS
FPWH-1	EXTERIOR WALL HYDRANT	WOODFORD	B65	3					MANUAL	2.5 GPM					3/4"		
IM-1	ICE MAKER	BY OTHERS	BY OTHERS	1	STAINLESS STEEL	STAINLESS STEEL			MANUAL	2.5 GPM			3/4"		1/2"		
IMB-1	ICE MAKER OUTLET BOX	SIOUX CHIEF	696-RG1010MF	2	ABS PLASTIC	WHITE				0.5 GPM					1/2"		
LAV-1A	LAVATORY - COUNTER - ADA	SLOAN	DSG-82.000	4	-	REFER TO ARCHITECT	SLOAN	ESD-420-SF, ETF-420-PLG-TEE-SF-0.5GPM-MLM-IR-FCT, ESD-324	WIRED	0.5 GPM		2"		2"	1/2"	1/2"	
MB-1	MOP BASIN	FIAT	MSB-2424	1	MOLDED STONE	WHITE	FIAT	830-AA	MANUAL	2.5 GPM		3"		2"	3/4"	3/4"	INCLUDE STAINLESS STEEL WALL GUARDS MSG2424, AND MOP HANGARS 889-CC
S-1	SINK	CORIAN	881P	1	CORIAN	BISQUE	AMERICAN STANDARD	COLONY PRO 7074.551	MANUAL	1.0 GPM		2"		2"	1/2"	1/2"	
S-2	SINK	CORIAN	5610	1	CORIAN	BISQUE	AMERICAN STANDARD	COLONY PRO 7074.551	MANUAL	1.0 GPM		2"		2"	1/2"	1/2"	
S-3	3-COMPARTMENT SINK	REGENCY TABLES AND SINKS	600S324242X	1	STAINLESS STEEL	STAINLESS STEEL	AERO SINK ACCESSORIES & OPTIONS	S-16 (2), S-20 (3), S-22 (1)	MANUAL	2.5 GPM			2"		1/2"	1/2"	
SH-1	DECONTAMINATION SHOWER STALL	BY OTHERS	BY OTHERS	1	3" CONCRETE CURB WITH FD-1	REFER TO ARCHITECT	BRADLEY	S19-12FMBF	MANUAL	22.0 GPM					1/2"	1/2"	INCLUDE BRADLEY TMV MODEL EFX20 AND INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
U-1	URINAL	AMERICAN STANDARD	WASHBROOK	1	WHITE VITREOUS CHINA	WHITE	AMERICAN STANDARD	SELECTRONIC 6063.013.002	WIRED		0.125 gal	2"		1-1/2"	3/4"		
WC-1	WATER CLOSET - FLOOR MOUNT - FLUSH VALVE	AMERICAN STANDARD	MADERA	1	WHITE VITREOUS CHINA	WHITE	AMERICAN STANDARD	SELECTRONIC	WIRED		1.28 gal	4"		2"	1"		
WC-1A	WATER CLOSET - FLOOR MOUNT - FLUSH VALVE - ADA	AMERICAN STANDARD	MADERA	2	WHITE VITREOUS CHINA	WHITE	AMERICAN STANDARD	SELECTRONIC	WIRED		1.28 gal	4"		2"	1"		
WCU-1	WATER CONTROL UNIT - EQUIPMENT RINSE STALL	BY OTHERS	BY OTHERS	1	3" CONCRETE CURB WITH FD-1	REFER TO ARCHITECT	T&S BRASS AND BRONZE WORKS	B-2339-LR	MANUAL	12.9 GPM					1/2"	1/2"	OFCI SPRAYER TO BE CONNECTED TO WCU-1
WCU-2	WATER CONTROL UNIT - HOSE REEL	BY OTHERS	BY OTHERS	1	OFCI HOSE REEL LOCATION	REFER TO ARCHITECT	T&S BRASS AND BRONZE WORKS	B-2339-LR	MANUAL	12.9 GPM					1/2"	1/2"	OFCI HOSE REEL WITH SPRAYER TO BE CONNECTED TO WCU-2
WMB-1	WASHING MACHINE OUTLET BOX	SIOUX CHIEF	696-R2313MF	1	ABS PLASTIC	WHITE				0.5 GPM		2"		2"	1/2"	1/2"	

Grand total: 22

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PROJ. MANAGER: SAT
DRAWN BY: BEA
CHECKED BY: SAT

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: PLUMBING SCHEDULES

SHEET NO.: P-501

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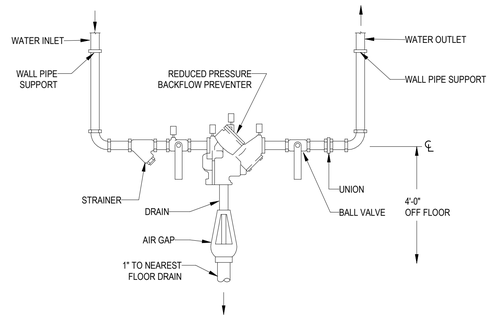
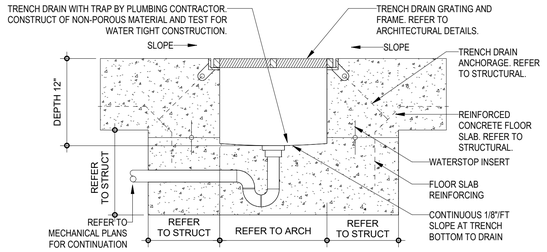
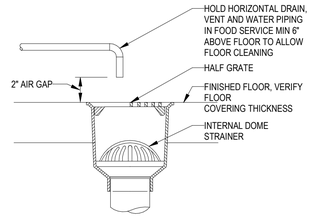


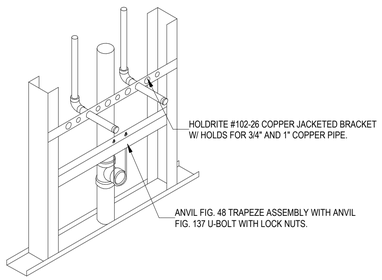
1 P-601 BACKFLOW PREVENTER DETAIL
NOT TO SCALE



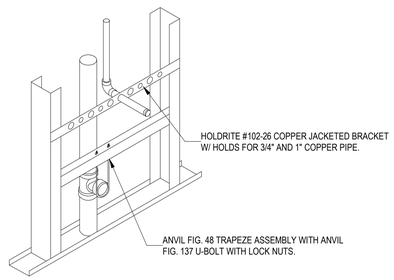
2 P-601 TRENCH DRAIN DETAIL WITH TRAP
NOT TO SCALE



3 P-601 FLOOR SINK
NOT TO SCALE



4 P-601 LAVATORY PIPING SUPPORT DETAIL
NOT TO SCALE



5 P-601 URINAL PIPING SUPPORT DETAIL
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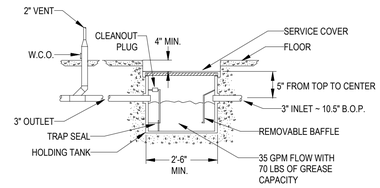

6 P-601 RECESSED IN-FLOOR GREASE INTERCEPTOR DETAIL
NOT TO SCALE

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
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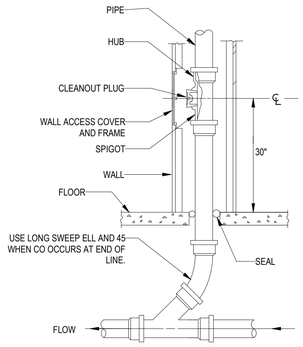
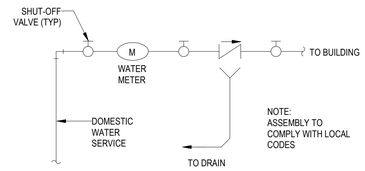
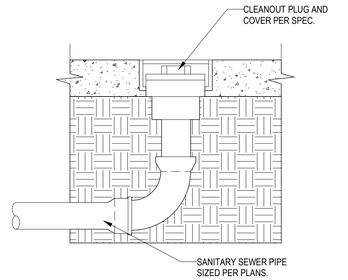
SHEET TITLE: PLUMBING DETAILS
SHEET NO.: P-601



1 P-602 WALL CLEAN OUT DETAIL
NOT TO SCALE



2 P-602 WATER SERVICE PIPING DETAIL
NOT TO SCALE



3 P-602 CLEANOUT DETAIL
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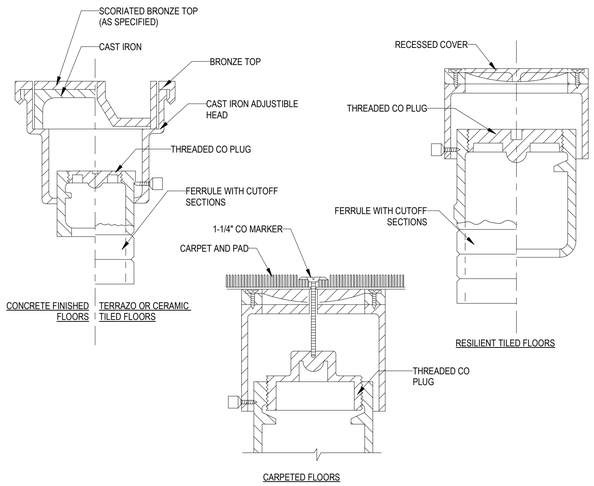
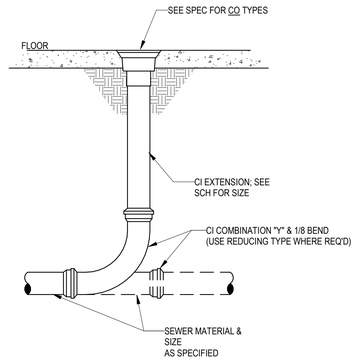


4 P-602 CLEANOUT DETAILS
NOT TO SCALE



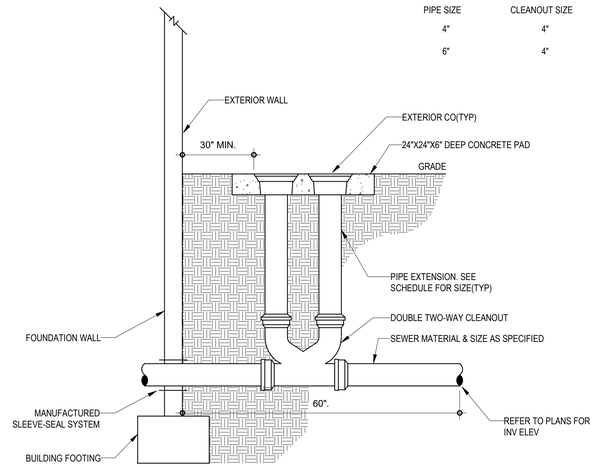
CLEANOUT SIZES

PIPE SIZE	CLEANOUT SIZE
2"	2"
3"	3"
4" & LARGER	4"

5 P-602 FLOOR CLEANOUT DETAIL
NOT TO SCALE

CLEANOUT SIZES

PIPE SIZE	CLEANOUT SIZE
4"	4"
6"	4"



6 P-602 EXTERIOR TWO-WAY SANITARY CLEANOUT DETAIL
NOT TO SCALE

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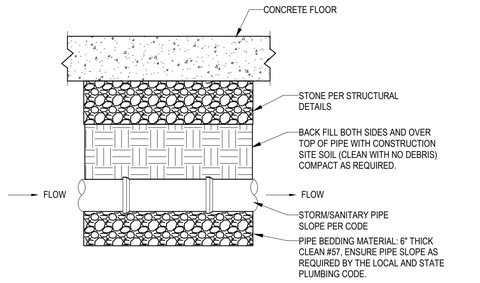
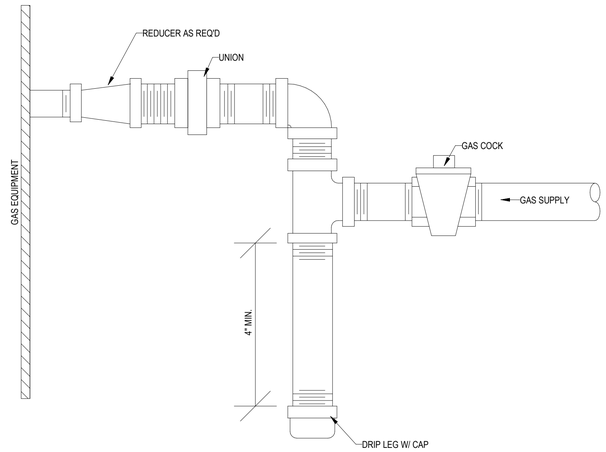
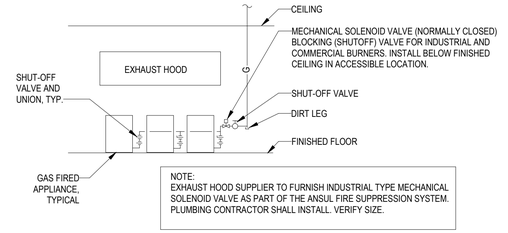
SHEET NO.: P-602



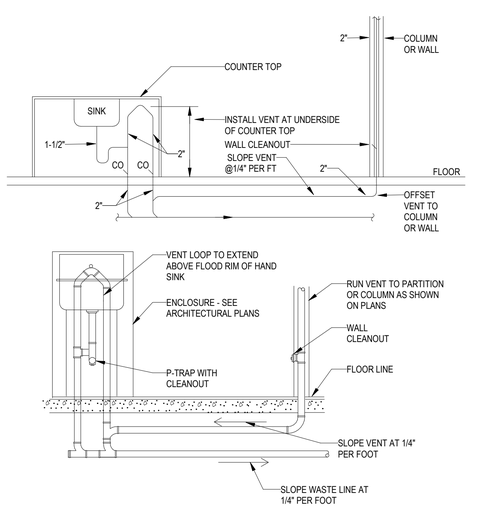
1 P-603 SANITARY WASTE/STORM PIPE BEDDING DETAIL
NOT TO SCALE



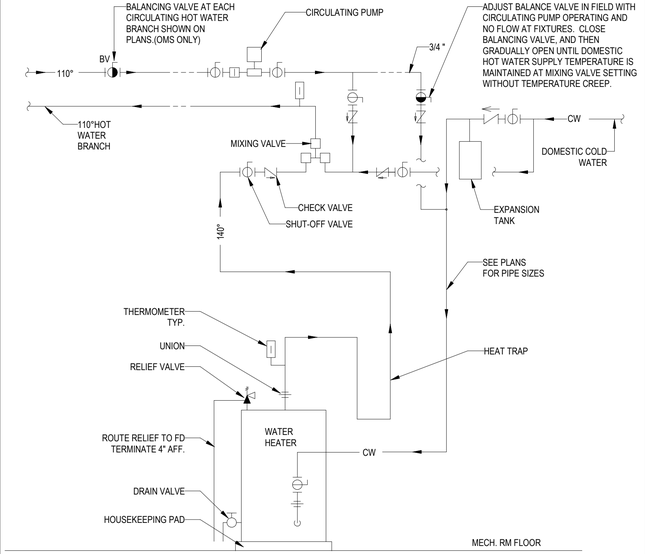
2 P-603 GAS CONNECTION DETAIL
NOT TO SCALE



3 P-603 SOLENOID VALVE
NOT TO SCALE



4 P-603 ISLAND VENT PIPING DETAIL
NOT TO SCALE



5 P-603 WATER HEATER PIPING DETAIL - SINGLE
NOT TO SCALE

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SHEET NO.: P-603

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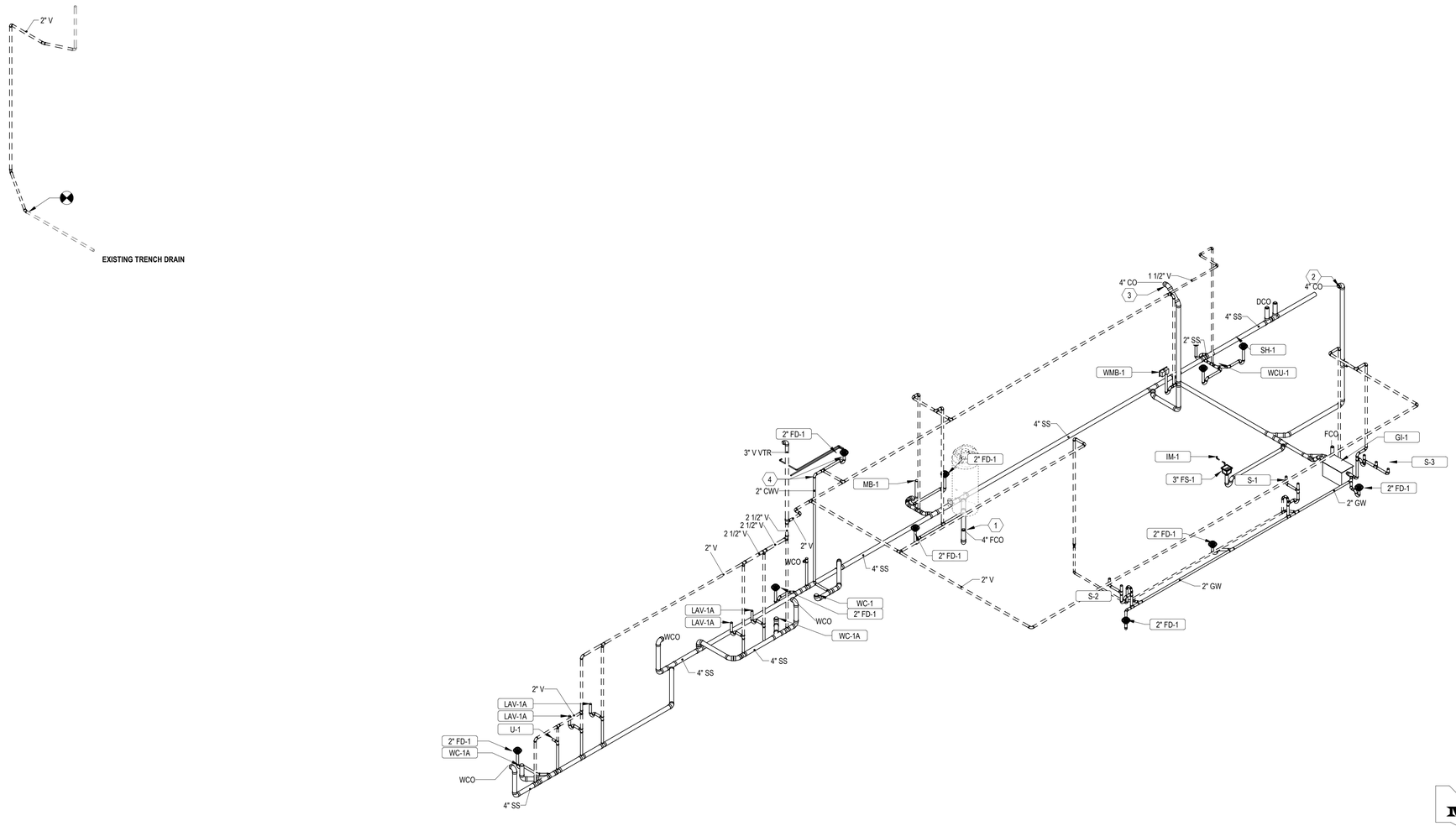
KEYNOTES

1. 4" FCO THAT CAN BE EXTENDED AS NEEDED FOR SECOND FLOOR BUILDOUT.
2. COORDINATE WITH GC, EXTEND 4" SS ABOVE CEILING AND TERMINATE WITH CLEANOUT THAT CAN BE EXTENDED AS NEEDED FOR SECOND FLOOR BUILDOUT. CONCEAL PIPE AND PROVIDE WCO AT 2' AFF.
3. EXTEND 4" SS ABOVE CEILING, AVOIDING VENT PIPE AND TERMINATING WITH CLEANOUT THAT CAN BE USED TO SERVE SECOND FLOOR BUILDOUT.
4. COORDINATE COMBINATION WASTE/VENT LOCATION ABOVE CEILING TO AVOID DUCTWORK FROM MECHANICAL ROOM ABOVE. ROUTE SS DRAIN UP TO FLOOR DRAIN SERVING SECOND FLOOR MECHANICAL ROOM.



1 P-701 WASTE & VENT RISER DIAGRAM

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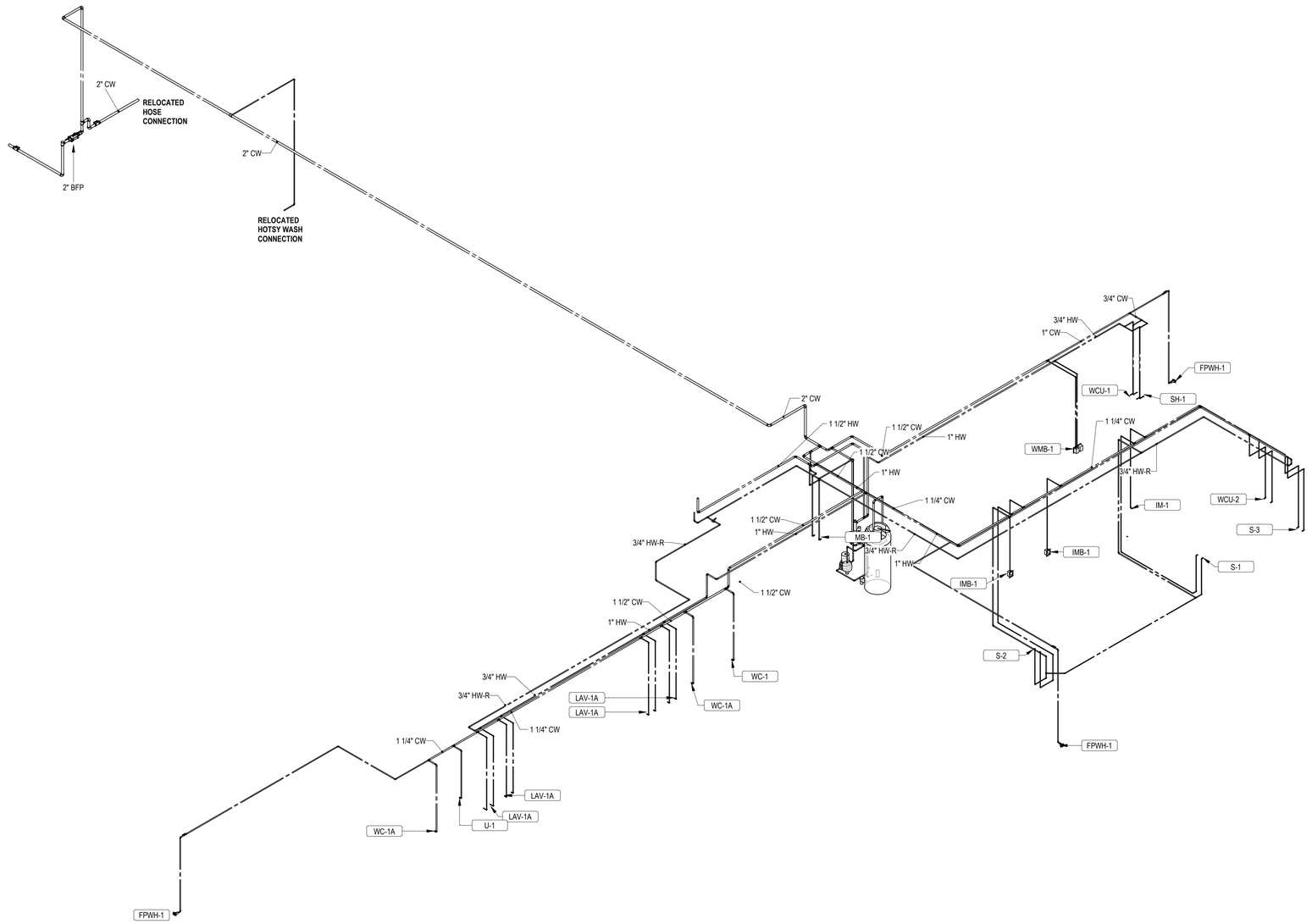
CHECKED BY:	SAT

DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: WASTE & VENT RISER DIAGRAMS

SHEET NO.: P-701



1 P-702 DOMESTIC WATER RISER DIAGRAM

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PROJECT NO.: 2111

SHEET TITLE: DOMESTIC RISER DIAGRAM

SHEET NO.: P-702

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GENERAL MECHANICAL ABBREVIATIONS

Ø	ROUND
ABV	ABOVE
AC	AIR CONDITIONING
ACCU	AIR-COOLED UNIT
AD	ACCESS DOOR, AREA DRAIN
ADD	ADDENDUM
ADJ	ADJUSTABLE, ADJACENT
AFCV	AIRFLOW CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFMS	AIRFLOW MEASURING STATION
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
AGA	AMERICAN GAS ASSOCIATION
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AHRI	AIR-CONDITIONING, HEATING, AND CONTROL ASSOCIATION
ALT	ALTERNATE
AMCA	AIR MOVEMENT AND CONTROL ASSOCIATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECT/ARCHITECTURAL
AS	AIR SEPARATOR
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVG	AVERAGE
AWS	AMERICAN WELDING SOCIETY
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL UNIT
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSE POWER
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CELSIUS
CAP	CAPACITY
CB	CATCH BASIN
CC	COOLING COIL
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	CEILING
CO	CLEAN OUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
COMM	COMMUNICATIONS
COP	COEFFICIENT OF PERFORMANCE
CP	CONDENSATE PUMP
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CONDENSATE RETURN
CSR	CURRENT SENSING RELAY
CT	COOLING TOWER
CTI	COOLING TECHNOLOGY INSTITUTE
CU	CONDENSING UNIT
CV	CONSTANT VOLUME, CONTROL VALVE
CW	COLD WATER
CWP	CHILLED WATER PUMP
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
dB	DECIBEL
dBA	DECIBEL A-WEIGHTING
D	DEGREE
DB	DRY BULB
DCW	DOMESTIC COLD WATER
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE(S)
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA	DIAMETER
DN	DOWN
DW	DISTILLED WATER
DWH	DOMESTIC WATER HEATER
DWV	DRAIN, WASTE, VENT
DX	DIRECT EXPANSION
EA	EXHAUST AIR, EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECC	ENVIRONMENTAL CONTROL CONTRACTOR
ECG	EGGCRATE GRILLE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ELEC	ELECTRICAL
EMG	EXTRUDED METAL GRILLE
EMS	ENERGY MANAGEMENT SYSTEM
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETC	ET CETERA
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISTING
EXT	EXTERIOR
F	DEGREES FAHRENHEIT
F/SD	FIRE/SMOKE DAMPER
FAC	FIRE ALARM CONTRACTOR
FAR	FIRE ALARM RELAY
FAS	FIRE ALARM SYSTEM
FCO	FLOOR CLEAN OUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FDV	FIRE DEPARTMENT VALVE
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FEP	FIELD EQUIPMENT PANEL
FL, FLR	FLOOR
FM	FLW METER
FO	FUEL OIL
FOV	FUEL OIL VENT
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FP	FREEZE PROTECTION
FPM	FEET PER MINUTE
FPRH	FREEZE PROOF ROOF HYDRANT
FS	FLOOR SINK
FT	FOOT/FEET
FTR	FIN TUBE RADIATOR
FURN	FURNACE UNIT
G	GAS
GA	GAGE, GUAGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GCO	GRADE CLEAN OUT
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIB
HC	HEATING COIL
HEPA	HIGH EFFICIENCY PARTICULATE AIR
HP	HEAT PUMP, HORSE POWER
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HW	HOT WATER
HWP	HEATING WATER PUMP
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
HYD	HYDRANT
I/O	INPUT/OUTPUT
IBC	INTERNATIONAL BUILDING CODE
ID	INDIRECT, INNER DIAMETER
IFB	INTEGRAL FACE/BYPASS
IFGC	INTERNATIONAL FUEL GAS CODE
IH	INTAKE HOOD
ILK	INTERLOCK
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCH(ES)
INV	INVERT
IPC	INTERNATIONAL PLUMBING CODE
LA	LEAVING AIR
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB	POUND(S)
LB/HR	POUNDS PER HOUR
LAT	LEAVING AIR TEMPERATURE
LP	LOW PRESSURE
LPG	LIQUEFIED PETROLEUM GAS
LV	LOUVER
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR, MEDICAL AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCF	ONE THOUSAND CUBIC FEET
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MFR	MANUFACTURER
MG	MEDICAL GAS
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRRENT PROTECTION
MS	MOP SINK
MTR	MOTOR
MV	MEDICAL VACUUM
N2	NITROGEN
N2O	NITROUS OXIDE
NC	NOISE CRITERIA, NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN, NUMBER
NTS	NOT TO SCALE
O2	OXYGEN
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE
OC	ON CENTER
OCC	OCCUPANCY
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ORD	OVERFLOW ROOF DRAIN
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH, Ø	PHASE
PHC	PREHEAT COIL
PIV	POST INDICATOR VALVE
PKG	PACKAGE
PLBG	PLUMBING
PM	PRESSURE MONITOR
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PS	PRESSURE SENSOR
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PVC	POLYVINYL CHLORIDE
PWR	POWER
R	DUCT RISER
RA	RETURN AIR
RAT	RETURN AIR TMPERATURE
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN, RETURN DIFFUSER
REC	RECESSED
RED	REDUCER
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY, ROOF HATCH, RELIEF HOOD
RHC	REHEAT COIL
RL/A	RELIEF AIR
RM	ROOM
RO	REVERSE OSMOSIS WATER
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RV	ROOF VENT
RW	RAIN WATER
S15	STEAM AT PRESSURE NOTED
SA	SUPPLY AIR
SAN	SANITARY
SAT	SUPPLY AIR TEMPERATURE
SD	SUPPLY DIFFUSER, SMOKE DAMPER, STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SEI	STRUCTURAL ENGINEERING INSTITUTE
SF	SQUARE FOOT
SG	SUPPLY GRILLE
SM	SURFACE MOUNT
SMACNA	SHEET METAL AND AIR-CONDITIONING CONTRACTORS ASSOCIATION
SP	STANDPIPE, STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	SANITARY SEWER
STM	STEAM
T	THERMOSTAT, TON(S)
TAB	TESTING, ADJUSTING, AND BALANCING
TD	TEMPERATURE DROP
TDR	TRENCH DRAIN
TEMP	TEMPERATURE
TP	TOTAL PRESSURE
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TWP	TOWER WATER PUMP
TWR	TOWER WATER RETURN
TWS	TOWER WATER SUPPLY
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UON	UNLESS OTHERWISE NOTED
UV	ULTRAVIOLET
V	VENT, VOLT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VENT	VENTILATION
VFD	VARIABLE FREQUENCY DRIVE
VP	VELOCITY PRESSURE
VTR	VENT THROUGH ROOF
W	WASTE, WATT
W/	WITH
W/O	WITHOUT
WAGD	WASTE ANESTHESIA GAS DISPOSAL
WB	WET BULB
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WG	WATER GAGE
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
YCO	YARD CLEANOUT
YD	YARD DRAIN
(E)	EXISTING

HVAC SYMBOLS

REVISION NUMBER - SHOWN ON PLANS

POINT WHERE NEW CONNECTS TO EXISTING

NUMBER OF DETAIL ON SHEET
NUMBER OF SHEET WHERE DETAIL APPEARS

KEYNOTE

CONTINUATION SYMBOL

Room
5
ROOM NAME AND NUMBER

ITEM TO BE DEMOLISHED

AREA NOT IN CONTRACT

2" — PIPE SIZE TAG (DIAMETER)

ABOVE GROUND PIPING

1/8" / 12" SLOPE — PIPE SLOPE TAG

BELOW GROUND PIPING

INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG

(E) — EXISTING PIPE TAG

PIPING BEING DEMOLISHED

16"x8" — SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)

16"/8" — OVAL DUCT SIZE TAG (WIDTH / HEIGHT)

16"Ø — ROUND DUCT SIZE TAG (DIAMETER)

(E) — EXISTING DUCT TAG

DUCT BEING DEMOLISHED

DROP — RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE

DROP — ROUND SUPPLY/OUTSIDE AIR DUCT RISE

DROP — RECTANGULAR RETURN/TRANSFER AIR DUCT RISE

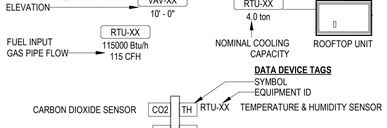
DROP — ROUND RETURN/TRANSFER AIR DUCT RISE

DROP — RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE

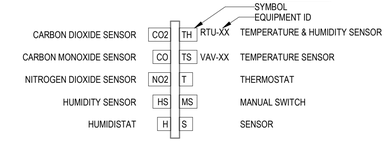
DROP — ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS TAG

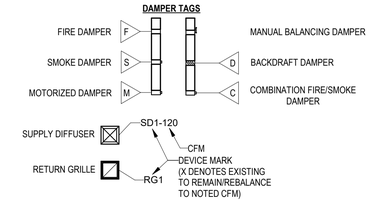
MECHANICAL EQUIPMENT TAGS



DATA DEVICE TAGS

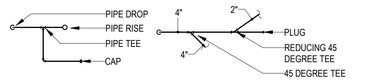


DAMPER TAGS



PIPING SYMBOLS

CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
RL	REFRIGERANT-LIQUID
RS	REFRIGERANT-SUCTION
RHG	REFRIGERANT-HOT GAS
STM	STEAM



PIPE ACCESSORY TAGS

2" DOM. WM — DOMESTIC WATER METER	2" M-CNTRL — MOTORIZED CONTROL VALVE
2" BALANCING — BALANCING VALVE	2" 3-WAY CNTRL — 3 WAY MOTORIZED CONTROL VALVE
2" SHUTOFF — 1/4 TURN BALL VALVE	2" PRV — PRESSURE REDUCING VALVE
2" CHECK — CHECK VALVE	3/8" SOLENOID — REFRIGERANT SOLENOID VALVE
2" TMV — 3-WAY MIXING VALVE	2" BUTTERFLY — BUTTERFLY VALVE

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

HVAC GENERAL NOTES

A SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.

B CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 48" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.

C REFER TO PIPING DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.

D CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.

E PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.

F CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

G ALL HWS&R RUNOUTS ARE TO BE 3/4" UNLESS NOTED OTHERWISE.

H DO NOT BLOCK DUCTWORK ACCESS DORS WITH PIPING OR OTHER DUCTWORK.

I REFER TO SCHEDULES FOR RUNOUT SIZES TO DIFFUSER AND TERMINAL UNITS. PROVIDE FRAME STYLE APPROPRIATE FOR CEILING TYPE (LAY-IN OR SURFACE MOUNT)

J WHERE THE INTERIOR OF DUCTWORK IS VISIBLE THROUGH A DIFFUSER/GRILLE, THE INSIDE OF THE DUCT SHALL BE PAINTED WITH A FLAT BLACK PRIMER.

K REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS/GRILLES.

L INSTALL VOLUME DAMPERS AT ALL DIFFUSER/GRILLE TAKEOFFS FOR BALANCING.

M INSTALL FIRE DAMPERS FOR ALL DUCTWORK PENETRATIONS THROUGH FIRE-RATED WALLS. INSTALL SMOKE DAMPERS IN SMOKE BARRIER WALLS FOR I-2 AND I-3 OCCUPANCY CLASSIFICATIONS. INSTALL FIRE RATED CEILING DAMPERS IN ALL ONE HOUR CEILINGS.

N OUTDOOR AIR INTAKES MUST BE A MINIMUM OF 25'-0" FROM ANY PLUMBING VENT, EXHAUST, OR FLUE.

O ROUTE CONDENSATE DRAIN PIPING FROM HVAC EQUIPMENT TO NEAREST FLOOR DRAIN. SUPPLY CONDENSATE PUMP IF REQUIRED.

PROJECT GENERAL NOTES

A ALL WORK AND MATERIAL SHALL COMPLY WITH ALL GOVERNING CODES, SAFETY ORDERS, AND REGULATIONS.

B CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.

C ANY EQUIPMENT OR DEVICE NOT LISTED AS REFERENCE PRODUCT ON THE SCHEDULE SHALL FIT IN THE SPACE PROVIDED WITH PROPER CLEARANCES INCLUDING ACCEPTABLE MANUFACTURERERS LISTED IN THE SPECIFICATIONS. CONTRACTOR SHALL SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT DIFFERENT THAN THE REFERENCE PRODUCT FOR APPROVAL PRIOR TO INSTALLATION.

D BY NECESSITY, THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS THE SOLUTION OF WHICH HAS IMPACTED DESIGNS OF OTHER DISCIPLINES (ELECTRICAL, ARCHITECTURAL, STRUCTURAL, PLUMBING, ETC). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, AND/OR MODEL NUMBERS ARE SUBMITTED AND APPROVED, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. THE SUBSTITUTING CONTRACTORS SHALL BE RESPONSIBLE FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTOR'S OPTION.

E ALL DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR MAY AT THEIR OPTION MOIDFY PIPE ROUTING IN ORDER TO CREATE A SYSTEM THAT MEETS THE INTENT OF THIS SET OF CONSTRUCTION DOCUMENTS.

F ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) ARE COMPLIMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. ALL CONFLICTS SHALL BE BROUGHT TO THE ARCHITECT'S OR ENGINEER'S ATTENTION IN ORDER TO ALLOW A CLARIFICATION TO BE ISSUED. ANY WORK COMPLETED WITHOUT THE CLARIFYING INFORMATION IS AT THE CONTRACTOR'S FINANCIAL RISK.

G LOCATE ALL TERMINAL UNITS, DAMPERS, VALVES, AND OTHER EQUIPMENT REQUIRING ACCESS ABOVE LAY-IN CEILING. IF EQUIPMENT MUST BE LOCATED ABOVE GYPSUM CEILING OR ANOTHER TYPE OF INACCESSIBLE CEILING, INSTALL ACCESS PANELS AND COORDINATE THE LOCATION WITH GENERAL CONTRACTOR.

H DO NOT RUN ANY HVAC/PLUMBING PIPING, DUCTWORK, OR ANY OTHER ITEMS ABOVE I.T., TELECOM, OR ELECTRICAL ROOMS UNLESS IT SERVES JUST THAT ROOM

I THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

J THE MECHANICAL CONTRACTOR SHALL REVIEW EXISTING EQUIPMENT TO BE REUTILIZED UNDER THIS PROJECT AND COMPILE A CONDITIONS REPORT FOR THE OWNER.

K WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

L COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

M THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

N REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

O FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

P LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

Q ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

R LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

S FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO SPECIFICATION.

T PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

U ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

V REFER TO PLUMBING SERIES DRAWINGS FOR GAS PIPING.

W PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

X FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

Y INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

Z LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

ZZ INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

HVAC SHEET INDEX

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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REMODEL/ADDITION
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HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: BEA
CHECKED BY: SAT

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: HVAC GENERAL

SHEET NO.: M-001

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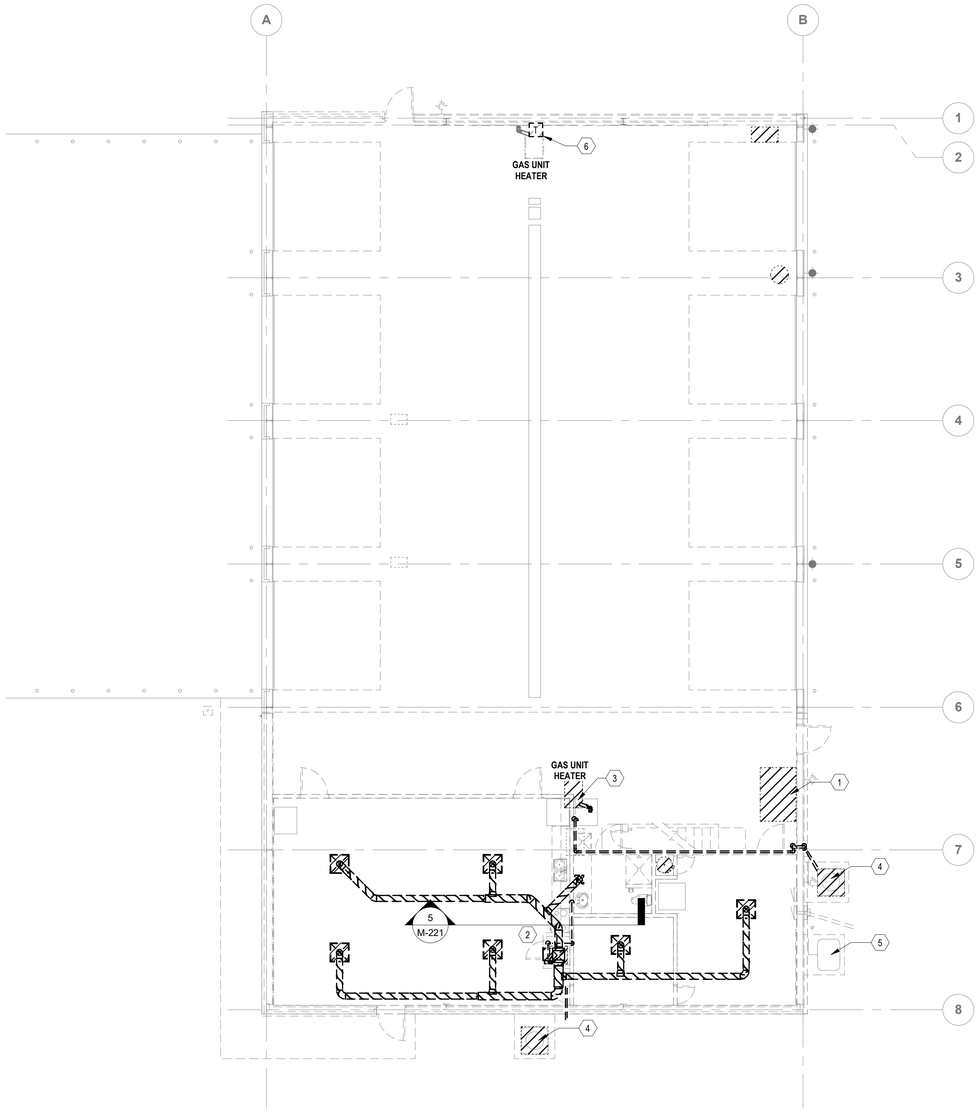
PROJECT: 501106
CA: 7612 EXP: 06/30/23



1 M-101 FIRST FLOOR HVAC DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'

KEYNOTES

1. REMOVE EXISTING AIR COMPRESSOR AND CONNECTIONS. TO BE RELOCATED.
2. REMOVE EXISTING FURNACE AND DUCTWORK SYSTEM COMPLETE.
3. REMOVE AND RELOCATE EXISTING GAS UNIT HEATER. REMOVE EXISTING FLUE.
4. REMOVE EXISTING AIR CONDITIONING SYSTEM COMPLETE - CONDENSING UNIT, COIL, REFRIGERANT LINES, EQUIPMENT PAD, ETC.
5. EXISTING GENERATOR. REFER TO ELECTRICAL DRAWINGS.
6. EXISTING UNIT HEATER TO REMAIN. RELOCATE THERMOSTAT.

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	SAT
DRAWN BY:	BEA
CHECKED BY:	SAT

DATE: 08/08/2022

PROJECT NO.: 2111

SHEET TITLE: FIRST FLOOR MECHANICAL DEMOLITION PLAN

SHEET NO.: M-101

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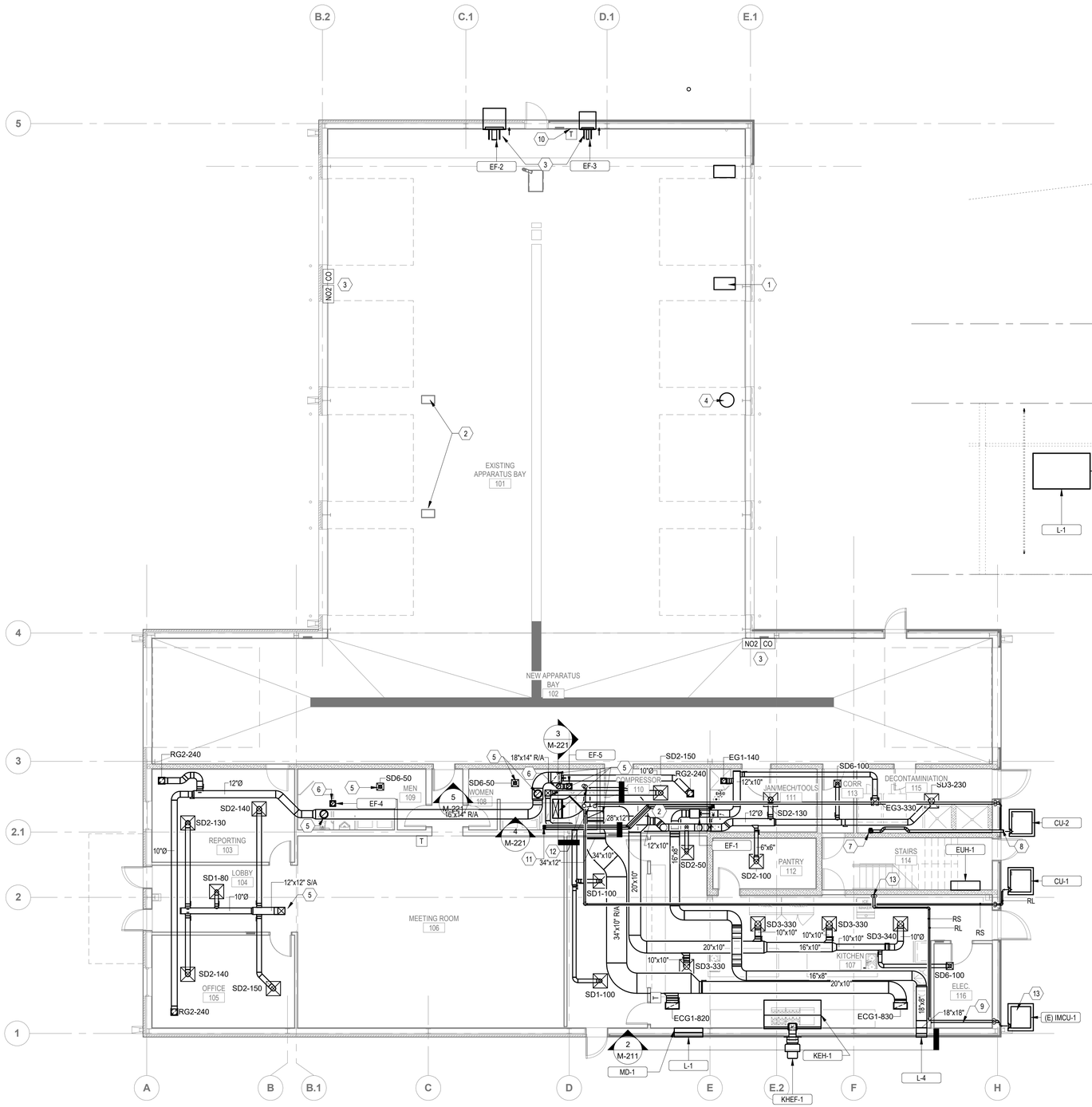
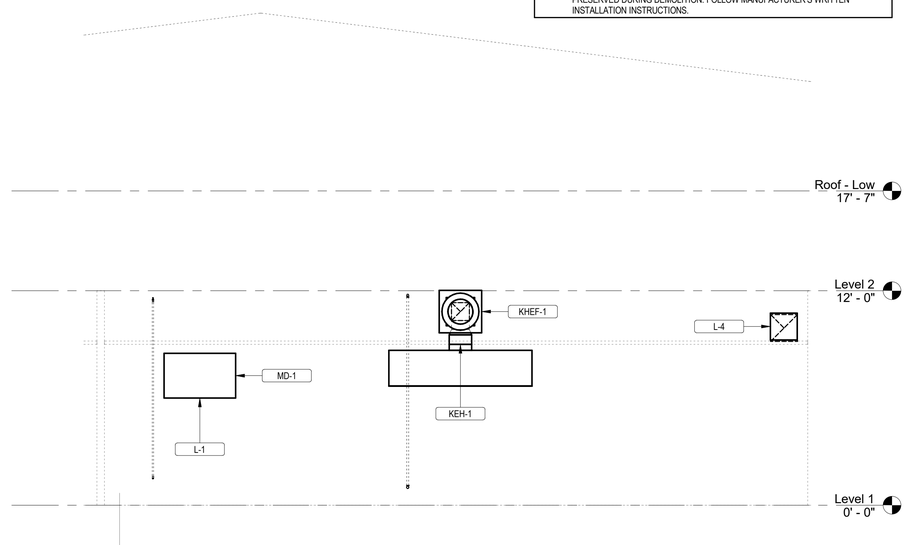
PROJECT: 501106
CA: 7612 EXP: 06/30/23

KEYNOTES

1. INSTALL EXISTING HOTSY AT NEW LOCATION WITH GAS CONNECTION PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. INSTALL EXISTING AIR COMPRESSOR AT NEW LOCATION WITH WITH PIPING TO EXISTING FLOATING HOSE REELS.
3. INSTALL EXHAUST FANS, CO, AND NO2 SENSORS FOR PARKING GARAGE AREA IN ACCORDANCE WITH IMC 2018 REQUIREMENTS FOR VENTILATION.
4. LOCATION OF RELOCATED STAND ALONE AIR COMPRESSOR. COORDINATE LOCATION WITH OWNER.
5. DUCTWORK TRANSITIONS TO/FROM SECOND LEVEL.
6. ROUTE EXHAUST DUCTWORK ABOVE THROUGH ROOF AND TERMINATE WITH GOOSENECK.
7. INSTALL DRYER DUCT TO WALL AND PAINT TO MATCH FINISH.
8. TERMINATE DRYER VENT DUCTWORK WITH SIDEWALL EXHAUST PER DETAIL.
9. COORDINATE CROSSING OF ELECTRICAL ROOM WITH ELECTRICAL CONTRACTOR.
10. LOCATION OF RELOCATED THERMOSTAT.
11. ROUTE DWH-1 COMBUSTION INTAKE AND FLUE DUCTWORK UP THROUGH ROOF WITH COMBINATION VENT AS INDICATED.
12. ROUTE REFRIGERANT LINES UP THRU FLOOR ENSURING FIRE RATING IS PRESERVED.
13. COORDINATE WITH OTHER TRADES AND INSTALL ICEMAKER WITH WATER FILTRATION SYSTEM AND PAIRED CONDENSING UNIT PREVIOUSLY REMOVED AND PRESERVED DURING DEMOLITION. FOLLOW MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.



1 M-211 FIRST FLOOR HVAC PLAN
1/8" = 1'-0"
0 4' 8' 16'



2 M-211 FIRST FLOOR MECHANICAL KITCHEN ELEVATION
1/4" = 1'-0"
0 2' 4' 8'

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: BEA
CHECKED BY: SAT

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: FIRST FLOOR HVAC PLAN
SHEET NO.: M-211

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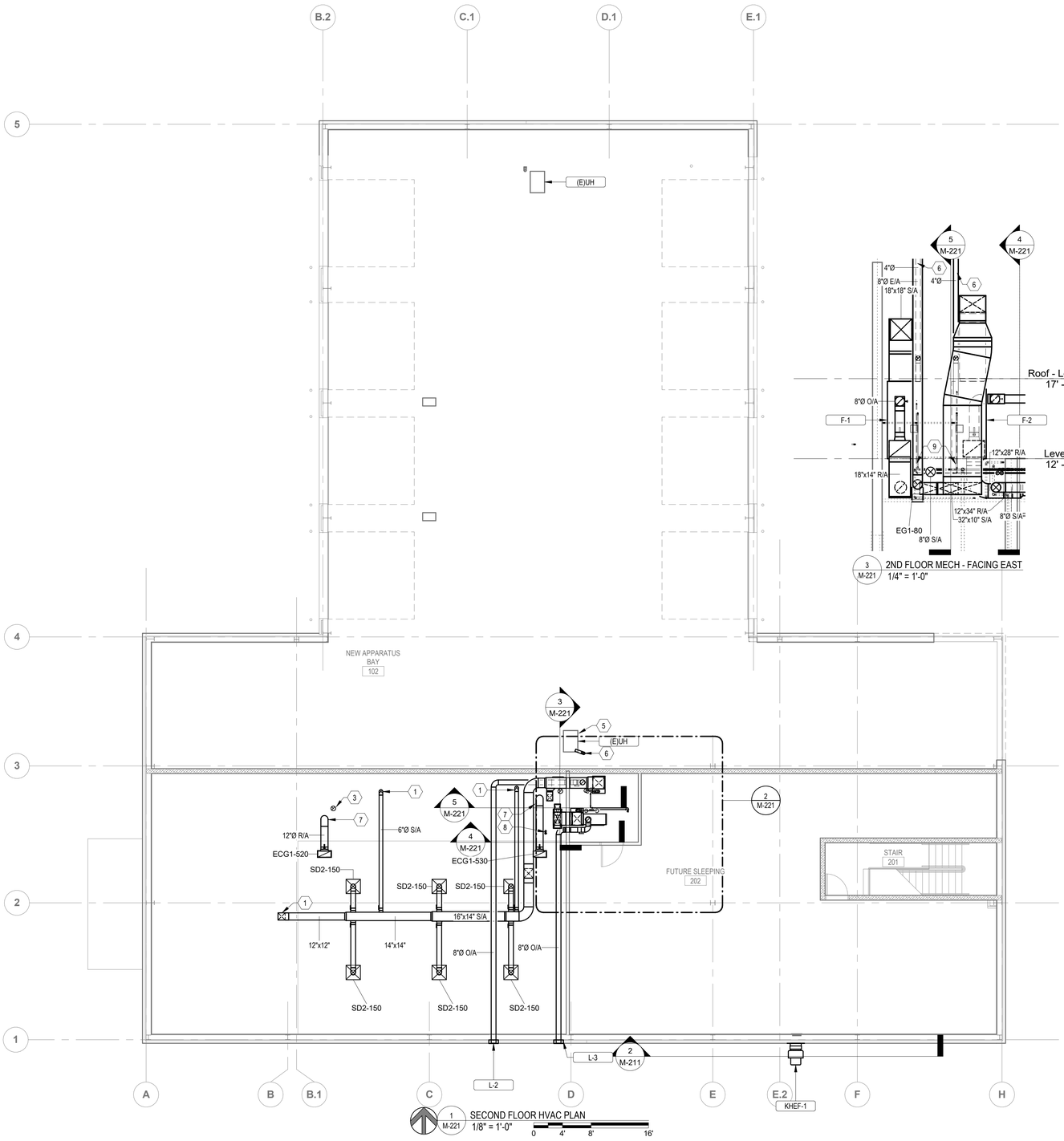
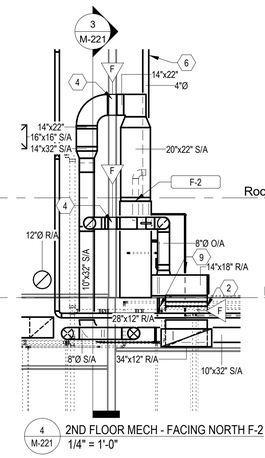
KEYNOTES

1. ROUTE SUPPLY DUCTWORK TO LEVEL BELOW.
2. ROUTE RETURN DUCTWORK THROUGH FLOOR WITH FIRE DAMPER TO LEVEL BELOW. SEE DETAIL.
3. TERMINATE WITH GOOSENECK ON ROOF. ROUTE EXHAUST DUCTWORK TO LEVEL BELOW.
4. INSTALL FIRE DAMPER FOR DUCT THROUGH RATED BARRIER. SEE DETAILS.
5. INSTALL UNIT HEATER PREVIOUSLY REMOVED DURING DEMOLITION AT 13'6" AFF TO CLEAR VEHICLES.
6. INSTALL COMBUSTION AIR INTAKE AND FLUE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. ROUTE RETURN DUCTWORK UP FROM LEVEL BELOW.
8. ROUTE DWH-1 COMBUSTION INTAKE AND FLUE DUCTWORK UP THROUGH ROOF WITH COMBINATION VENT AS INDICATED.
9. ROUTE REFRIGERANT LINES DOWN THRU FLOOR ENSURING FIRE RATING IS PRESERVED.

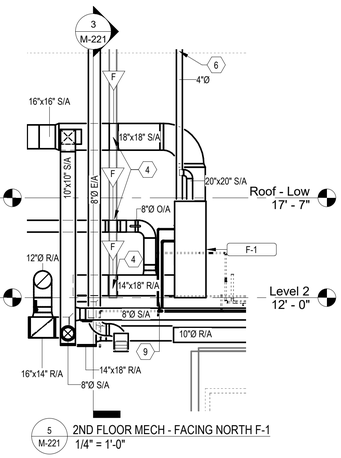


1 M-221 SECOND FLOOR HVAC PLAN
1/8" = 1'-0"
0 4' 8' 16'

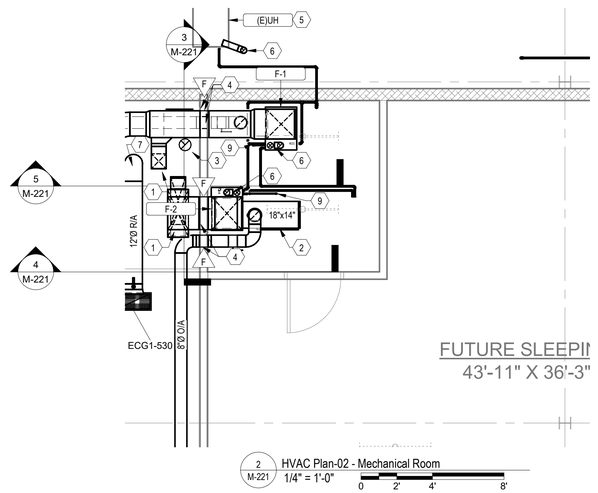
3 M-221 2ND FLOOR MECH - FACING EAST
1/4" = 1'-0"



4 M-221 2ND FLOOR MECH - FACING NORTH F-2
1/4" = 1'-0"



5 M-221 2ND FLOOR MECH - FACING NORTH F-1
1/4" = 1'-0"



2 M-221 HVAC Plan-02 - Mechanical Room
1/4" = 1'-0"
0 2' 4' 8'

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER:	SAT
DRAWN BY:	BEA
CHECKED BY:	SAT
DATE:	08/08/2022
PROJECT NO.:	2111
SHEET TITLE:	SECOND FLOOR HVAC PLAN
SHEET NO.:	M-221

GAS-FIRED FURNACE SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	TYPE	OUTSIDE AIR	FAN			COOLING COIL						GAS-FIRED HEAT EXCHANGER								AFUE	FILTER	UNIT WEIGHT	MCA	MOCP	VOLT	PH	REMARKS
					AIRFLOW	MOTOR			CAP	AIRSIDE				GAS BURNER					AIRSIDE										
																	FUEL												
				MIN	SUPPLY	QTY	POWER	NOMINAL CAP	TOTAL	SENSIBLE	EAT(db)	EAT(wb)	LAT(db)	LAT(wb)	INPUT	CAP	QTY	STAGES	TYPE	PRESS AVAIL	EAT(db)	LAT(db)		EFF						
F-1	TRANE	4TXC+S9V2C	UPFLOW	320 CFM	1990 CFM	1	1.00 hp	5 ton	56075 Btu/h	49201 Btu/h	79.5 °F	65.0 °F	56.4 °F	55.4 °F	100000 Btu/h	97000 Btu/h	1	2	NG	2.0 psi	60.0 °F	90.0 °F	96%	MERV 8	155 lb	13.9 A	15 A	120 V	1	
F-2	TRANE	4TXC+S9V2C	UPFLOW	320 CFM	1990 CFM	1	1.00 hp	5 ton	56075 Btu/h	49201 Btu/h	79.5 °F	65.0 °F	56.4 °F	55.4 °F	100000 Btu/h	97000 Btu/h	1	2	NG	2.0 psi	60.0 °F	90.0 °F	96%	MERV 8	155 lb	13.9 A	15 A	120 V	1	

AIR COOLED CONDENSING UNIT

ID	SERVES	REFERENCE PRODUCT	MODEL NO.	AUXILIARY FAN			COMPRESSOR							SUMMER AMBIENT DBT	WINTER AMBIENT DBT	SEER	WEIGHT	MCA	MOCP	VOLT	PH	REMARKS
				QTY	MOTOR		CAP	REFRIGERANT TYPE	UNLOADING STEPS	MOTOR		LOW AMBIENT KIT										
					QTY	POWER				QTY	RLA											
CU-1	F-1	TRANE	4TTV8060A100B	1	1	0.33 hp	5 ton	R-410A	1	1	19 A	Yes	90.0 °F	15.0 °F	18	258 lb	27 A	40 A	230 V	1	
CU-2	F-2	TRANE	4TTV8060A100B	1	1	0.33 hp	5 ton	R-410A	1	1	19 A	Yes	90.0 °F	15.0 °F	18	258 lb	27 A	40 A	230 V	1	

EXHAUST FAN SCHEDULE

Identity Mark	REFERENCE PRODUCT	MODEL NO.	CFM	OUTLET VELOCITY (OV) (FT/MIN)	T.S.P. (IN WG)	FAN TYPE	ARRANGEMENT	MAX. BHP	MOTOR				INLET SOUND POWER (MAX DB) PER OCTAVE BAND								WEIGHT (LBS.)	REMARKS
									HP	RPM	VOLT / PHASE	CYCLE	63HZ	125HZ	250HZ	500HZ	1000HZ	2000HZ	4000HZ	8000HZ		
EF-1	GREENHECK	SQ-90-VG	470	470	0.1	BACKWARD-INCLINE	IN-LINE	0.03	1/10	1725	208/1	60	65	65	61	55	51	51	45	38	43	INCLUDE BACKDRAFT DAMPER AND DISCONNECT.
EF-2	GREENHECK	SBE-3H30-3	4600	-	0.25	PROPELLER	SIDEWALL	0.38	1/3	1725	115/1	60	80	78	78	74	70	68	64	60	93	INCLUDE DISCONNECT.
EF-3	GREENHECK	SBE-1H20-4	320	-	0.25	PROPELLER	SIDEWALL	0.12	1/4	1725	115/1	60	76	67	55	57	62	57	59	58	55	INCLUDE DISCONNECT.
EF-4	BROAN	QTXEN110	86	-	0.25	CENTRIFUGAL	CEILING MOUNT	-	-	-	115/1	60	-	-	-	-	-	-	-	-	-	TO BE CONTROLLED BY OCCUPANCY SENSOR.
EF-5	BROAN	QTXEN110	86	-	0.25	CENTRIFUGAL	CEILING MOUNT	-	-	-	115/1	60	-	-	-	-	-	-	-	-	-	TO BE CONTROLLED BY OCCUPANCY SENSOR.
KHEF-1	GREENHECK	CUE-130-VG	1576	-	0.623	CENTRIFUGAL	UPBLAST/WALL MOUNT	.33	1/2	1450	115/1	60	76	75	83	72	64	63	59	57	85	INCLUDE DISCONNECT.

ELECTRIC UNIT HEATER SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	FAN		HEATING COIL	HEATING ELEMENT	UNIT DIMENSIONS	UNIT WEIGHT	FLA	MCA	MOCP	VOLT	PH	REMARKS
			AIRFLOW		AIRSIDE		AFF							
			DESIGN	MIN	DELTA T	POWER	ELEVATION							
EUH-1	INDEECO	922U03000J	250 CFM	200 CFM	38.0 °F	3000 kW	1' - 0"	115 lb	0 A	14 A	0 A	240 V	1	

LOUVER SCHEDULE

ID	SERVES	REFERENCE PRODUCT	MODEL NO.	QTY	MATERIAL	FINISH	DESIGN AIRFLOW	FREE AREA	FREE AREA VELOCITY	PD	DAMPER TYPE	QTY	DIMENSIONS		UNIT WEIGHT	REMARKS
													WIDTH	HEIGHT		
L-1	KITCHEN OUTDOOR AIR INTAKE	GREENHECK	ESD-635	1	ALUMINUM	COLOR TO BE SELECTED BY ARCHITECT	1576 CFM	5.1 SF	350 FPM	0.02 in-wg	MOTORIZED	1	48"	30"	43 lb	
L-2	F-1	GREENHECK	ESD-635	1	ALUMINUM	COLOR TO BE SELECTED BY ARCHITECT	320 CFM	0.0 SF	350 FPM	0.00 in-wg	NA	1	16"	21"	9 lb	
L-3	F-2	GREENHECK	ESD-635	1	ALUMINUM	COLOR TO BE SELECTED BY ARCHITECT	320 CFM	0.0 SF	350 FPM	0.00 in-wg	NA	1	16"	21"	9 lb	
L-4	EF-1	GREENHECK	ESD-635	1	ALUMINUM	COLOR TO BE SELECTED BY ARCHITECT	470 CFM	5.1 SF	350 FPM	0.02 in-wg	NA	1	18"	18"	9 lb	

CEILING DIFFUSER SCHEDULE

ID	REFERENCE PRODUCT	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	FINISH	MAX. CFM	MAX. NC	MAX. TOTAL PD (IN. WG.)	REMARKS
SD1/RD1	PRICE	SPD	6"Ø	24"X24"	STEEL	WHITE	135	15	0.032	
SD2/RD2	PRICE	SPD	8"Ø	24"X24"	STEEL	WHITE	250	15	0.057	
SD3/RD3	PRICE	SPD	10"Ø	24"X24"	STEEL	WHITE	380	18	0.088	
SD4/RD4	PRICE	SPD	12"Ø	24"X24"	STEEL	WHITE	550	21	0.127	
SD5/RD5	PRICE	SPD	14"Ø	24"X24"	STEEL	WHITE	750	23	0.173	
SD6/RD6	PRICE	SPD	6"Ø	12"X12"	STEEL	WHITE	135	16	0.116	
SD7/RD7	PRICE	SPD	8"Ø	12"X12"	STEEL	WHITE	250	22	0.208	

RETURN AND EXHAUST GRILLE SCHEDULE

TAG	REFERENCE PRODUCT	NOMINAL GRILLE SIZE (IN.)	MATERIAL	FINISH	MIN. CORE AREA (SQ. FT.)	MAX. CFM	MAX. NC	MAX. CORE VELOCITY (FPM)	MAX. VELOCITY PRESSURE (IN. WG.)	MAX. NEGATIVE S.P. (IN. WG.)	REMARKS
RG1, EG1	PRICE 60	8X8	STEEL	WHITE	0.39	150	24	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
RG2, EG2	PRICE 60	10X10	STEEL	WHITE	0.60	240	26	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
RG3, EG3	PRICE 60	12X12	STEEL	WHITE	0.90	350	29	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
RG4, EG4	PRICE 60	14X14	STEEL	WHITE	1.18	470	31	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
RG5, EG5	PRICE 60	16X16	STEEL	WHITE	1.80	640	33	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
RG6, EG6	PRICE 60	18X18	STEEL	WHITE	2.45	830	34	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
RG7, EG7	PRICE 60	24X24	STEEL	WHITE	3.61	1200	35	400	0.01	0.127	45° DEFLECTION, 3/4" BLADE SPACING
ECG3	PRICE 80	48X24	STEEL	WHITE	7.22	3600	15	500	0.016	0.034	EGGCRATE GRILLE WITH 1/2" X 1/2" X 1/2" ALUMINUM GRID CORE
ECG2	PRICE 80	24X24	STEEL	WHITE	3.61	1800	15	500	0.016	0.034	EGGCRATE GRILLE WITH 1/2" X 1/2" X 1/2" ALUMINUM GRID CORE
ECG1	PRICE 80	24X12	STEEL	WHITE	1.80	900	15	500	0.016	0.034	EGGCRATE GRILLE WITH 1/2" X 1/2" X 1/2" ALUMINUM GRID CORE

MISCELLANOUS EQUIPMENT SCHEDULE

MISC EQUIP TAG	MISC TOTAL REQ'D	MISC DESCRIPTION	MISC REMARKS
KEH-1	1	KITCHEN EXHAUST HOOD	REFERENCE GREENHECK GHEW 96"X48"X18"
MD-1	1	MOTORIZED DAMPER	TO BE SIZED AND FIT TO L-1, AS WELL AS OPEN WHEN KITCHEN GREASE EXHAUST HOOD BEGINS OPERATION, AND CLOSE WHEN STOPPING OPERATION.
IMCU-1	1	ICE MAKER CONDENSING UNIT	COORDINATE WITH GC AND OWNER FOR DETAILS.

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HENNESSEY FIRE DEPARTMENT

REMODEL/ADDITION

501 S. MAIN STREET

HENNESSEY, OKLAHOMA

REVISIONS

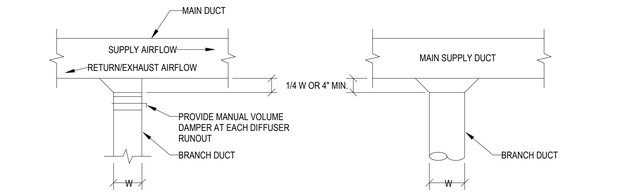
REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: BEA
CHECKED BY: SAT

DATE: 08/08/2022
PROJECT NO.: 2111

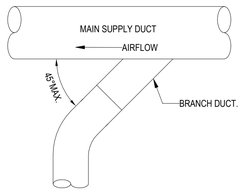
SHEET TITLE: HVAC SCHEDULES

SHEET NO.: M-501

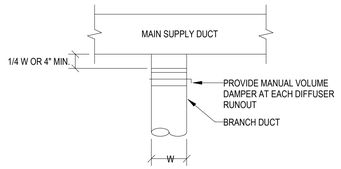


RECTANGULAR DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT
MEDIUM & LOW PRESSURE - BEVELED TAP

ROUND DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT
MEDIUM PRESSURE - CONICAL TAP

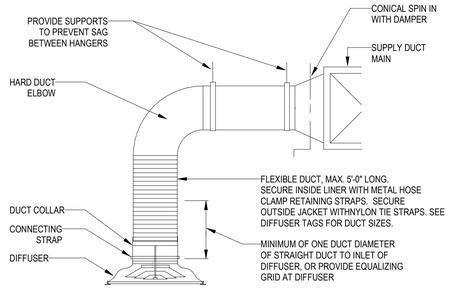


ROUND SUPPLY DUCT TAKEOFF FROM ROUND MAIN DUCT
MEDIUM PRESSURE - LATERAL TAP

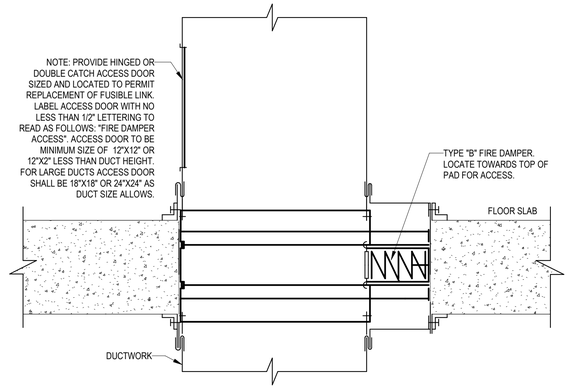


ROUND DUCT TAKEOFF FROM RECTANGULAR MAIN DUCT
LOW PRESSURE - SPIN TAP

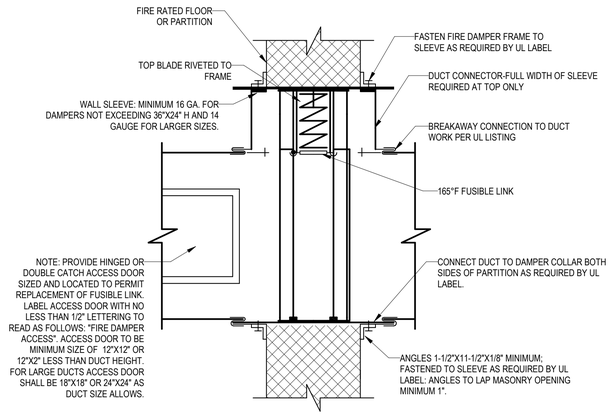
1 M-601 BRANCH DUCT CONNECTION DETAILS
NOT TO SCALE



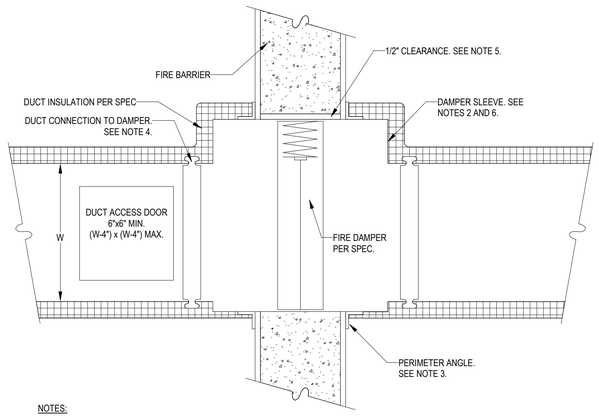
2 M-601 DIFFUSER FLEXIBLE DUCT CONNECTION
NOT TO SCALE



3 M-601 FIRE DAMPER AT FLOOR DETAIL
NOT TO SCALE



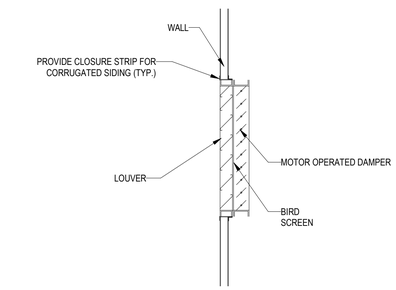
4 M-601 FIRE DAMPER INSTALLATION DETAIL
NOT TO SCALE



NOTES:

1. COMPLY WITH SMACNA "FIRE, SMOKE, AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC SYSTEMS" AND NFPA 90A "INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS".
2. GALVANIZED SLEEVE'S GAUGE SHALL NOT BE LESS THAN THE CONNECTING DUCT GAUGE FOR BREAKAWAY CONNECTED DUCT. BREAKAWAY DUCT MAY BE OMITTED IF SLEEVE IS 16 GA. MIN.
3. GALVANIZED STELL PERIMETER ANGLE SHALL NOT BE LESS THAN 1-1/2" x 1-1/2" x 14GA. W/ MIN. 1" OVERLAP ON ALL SIDES.
4. BREAKAWAY DUCT CONNECTION. REFER TO SMACNA FIGURE 2-2 "UL ACCEPTED DUCT SLEEVE CONNECTIONS" OF FIRE, SMOKE, AND RADIATION DAMPER INSTALLATION GUIDE. UL TESTED DUCT SEALANT MAY BE USED. BREAKAWAY DUCT MAY BE OMITTED IF SLEEVE IS 16 GA. MIN.
5. PROVIDE 1/2" CLEARANCE ON HEIGHT AND WIDTH. FILL SPACE WITH FIRE STOPPING SEALANT.
6. FIRE DAMPER SLEEVE SHALL EXTEND 5" ON EACH SIDE.
7. LABEL ACCESS DOOR WITH NO LESS THAN 1/2" LETTERING TO READ AS FOLLOWS: "FIRE DAMPER ACCESS".

5 M-601 FIRE DAMPER DETAIL
NOT TO SCALE



6 M-601 LOUVER DETAIL WITH DAMPER
NOT TO SCALE

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REVISIONS

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PROJ. MANAGER:	SAT
DRAWN BY:	BEA
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PROJECT NO.: 2111

SHEET TITLE: HVAC DETAILS

SHEET NO.: M-601

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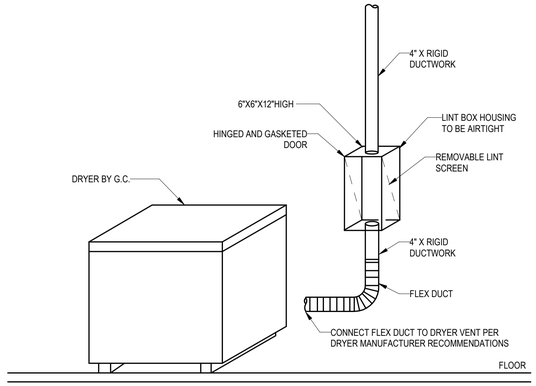
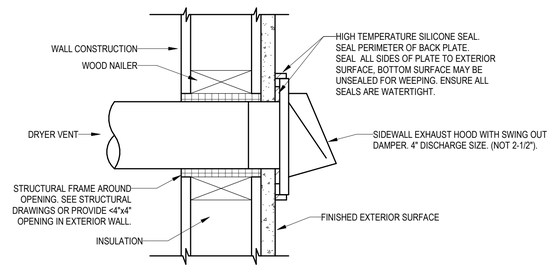
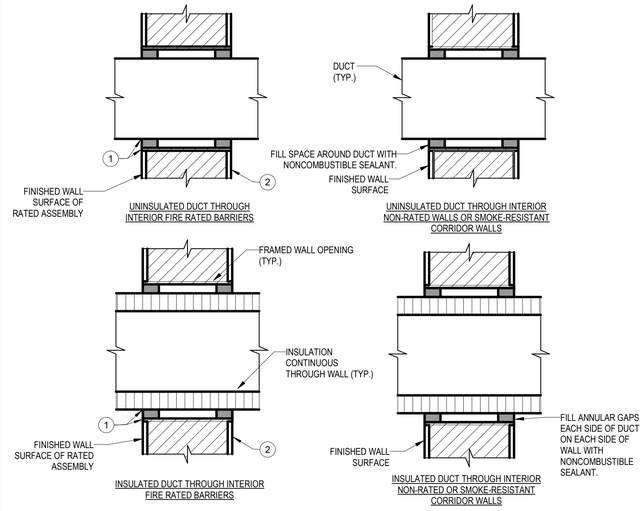


1 M-602 DRYER LINT BOX DETAIL
NOT TO SCALE



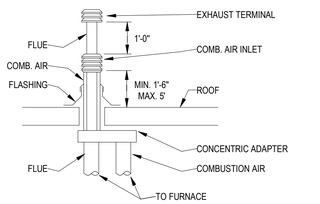
2 M-602 DRYER SIDEWALL VENT DETAIL
NOT TO SCALE



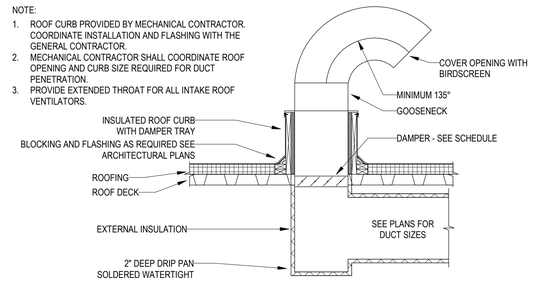
NOTES:

1. INSTALL FIRESTOP AND RETAINING ANGLES AS SPECIFIED IN DIVISION 7. ALL PENETRATIONS SHALL MEET UL LISTED RATING APPROPRIATE FOR WALL RATING.
2. INSTALL FIRESTOP LABEL ABOVE CEILING ON BOTH SIDES OF PENETRATION

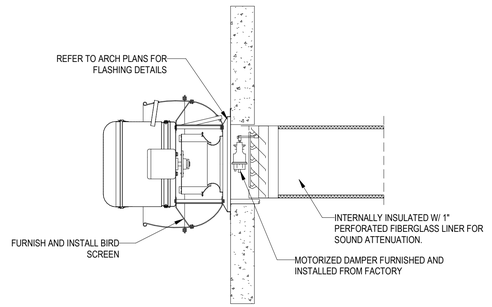
3 M-602 DUCT PENETRATION DETAIL
NOT TO SCALE



4 M-602 FURNACE FLUE DETAIL
NOT TO SCALE



5 M-602 GOOSENECK DETAIL - INTAKE OR EXHAUST
NOT TO SCALE



6 M-602 EXHAUST FAN SIDEWALL DETAIL
NOT TO SCALE

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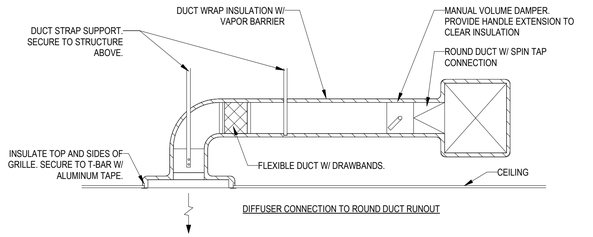
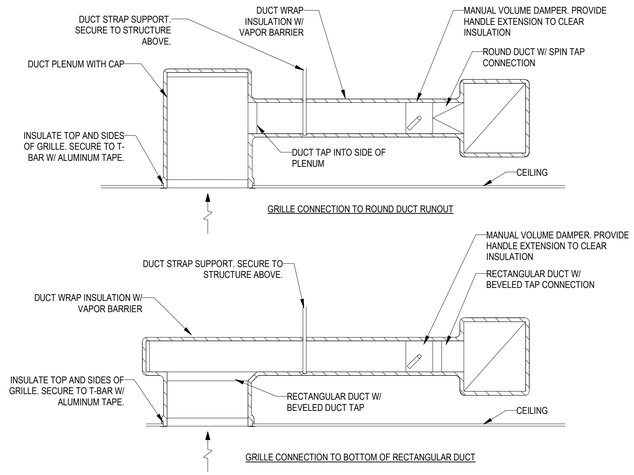


NOTES:

1. FLEXIBLE DUCT CONNECTIONS SHALL BE INSTALLED TO ADC STANDARDS AND SEALED TO UL STANDARDS PER AMC 603 AND 604.2.1.
2. CONTRACTOR SHALL SECURE THE FLEXIBLE DUCT TO ENDS OF METAL DUCT WITH DRAWBANDS AND WRAP 2" WIDE ALUMINUM TAPE EQUAL TO HARDCAST "FOIL GRIP" AROUND DRAWBAND AND EXPOSED END OF FLEXIBLE DUCT INSULATION.
3. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED MAXIMUM LENGTH OF 5'-0".

1 M-603 SUPPLY DIFFUSER CONNECTION DETAILS
NOT TO SCALE



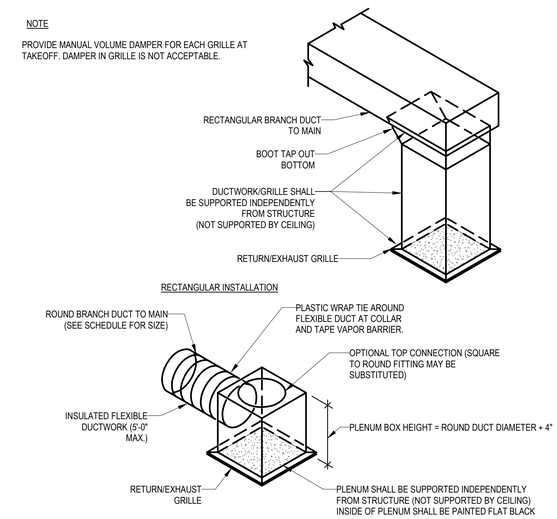
NOTES:

1. DUCTWORK SHALL BE INSULATED PER SPEC.

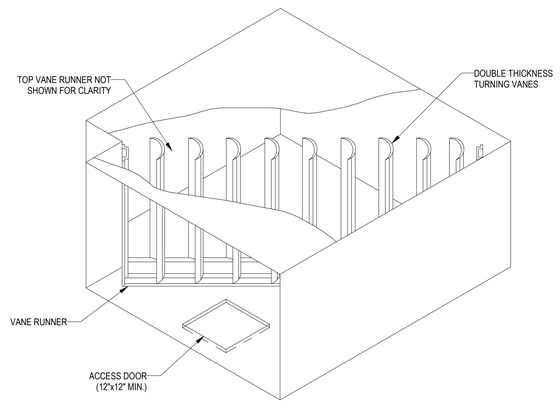
2 M-603 GRILLE CONNECTION RETURN/EXHAUST DETAILS
NOT TO SCALE

NOTE

PROVIDE MANUAL VOLUME DAMPER FOR EACH GRILLE AT TAKEOFF. DAMPER IN GRILLE IS NOT ACCEPTABLE.



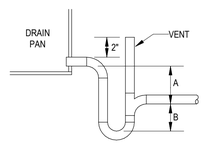
3 M-603 RETURN/EXHAUST GRILLE DETAIL
NOT TO SCALE



NOTES:

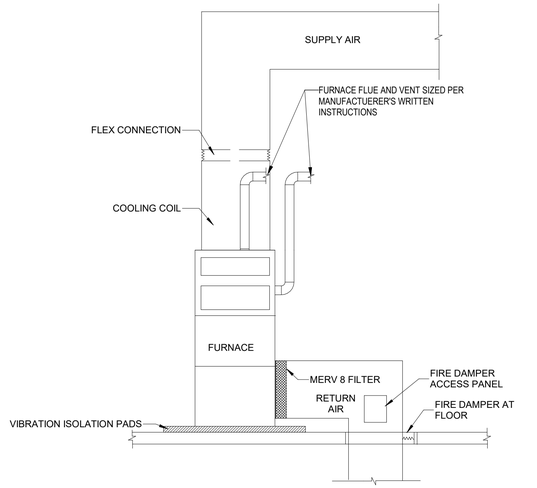
1. TURNING VANES SHALL BE USED WHERE RADIUS ELBOWS ARE NOT INDICATED ON SUPPLY AIR DUCTWORK ONLY.
2. TURNING VANE QUANTITY AND CONFIGURATION SHALL BE PER SMACNA STANDARDS.

4 M-603 TURNING VANE DETAIL
NOT TO SCALE



A= SCHEDULED FAN STATIC PLUS ONE INCH
B= 1/2 OF SCHEDULED FAN STATIC

5 M-603 COOLING COIL CONDENSATE DRAIN DETAIL
NOT TO SCALE



6 M-603 FURNACE DETAIL
NOT TO SCALE

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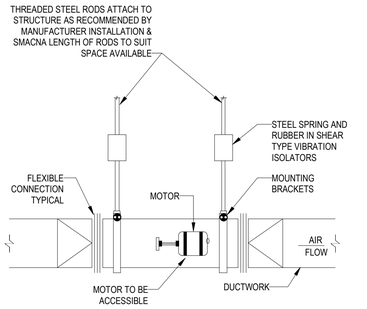
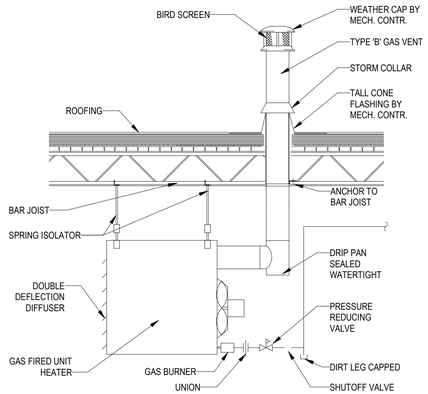
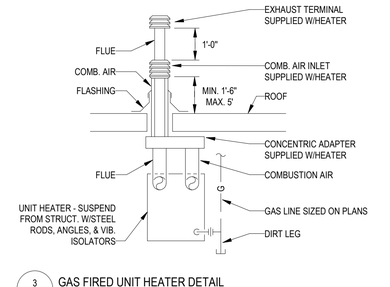
SHEET NO.: M-603



1 / M-604 IN-LINE FAN SUPPORT DETAIL
NOT TO SCALE



2 / M-604 GAS FIRED UNIT HEATER DETAIL
NOT TO SCALE



3 / M-604 GAS FIRED UNIT HEATER DETAIL
NOT TO SCALE

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ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)
A	AMPERE
AC	ABOVE COUNTER
ACLG	ABOVE CEILING
ADO	AUTOMATIC DOOR OPENER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
AMPL	AMPLIFIER
ANNUN	ANNUNCIATOR
ARCH	ARCHITECT, ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CCT	CIRCUIT
CLG	CEILING
COMB	COMBINATION
CMPR	COMPRESSOR
CONT	CONTINUATION OR CONTINUOUS
CP	CIRCULATING PUMP
CT	CURRENT TRANSFORMER
CTR	CENTER
CU	COPPER
DCP	DOMESTIC WATER CIRCULATING PUMP
DEPT	DEPARTMENT
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DS	SAFETY DISCONNECT SWITCH
DT	DOUBLE THROW
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EMGB	EQUIPMENT MAIN GROUNDING BUSBAR
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXH	EXHAUST
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FLR	FLOOR
FU	FUSE
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTOR
GND	GROUND
GRS	GALVANIZED RIGID STEEL (CONDUIT)
GYP	GYPSUM BOARD
HOA	HAND-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HV	HIGH VOLTAGE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IR	INFRARED
I/W	INTERLOCK WITH
J-BOX	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KVAR	KILOVOLT-AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT HOUR
LTG	LIGHTING
LTNG	LIGHTNING
LV	LOW VOLTAGE
MAX	MAXIMUM
M/C	MOMENTARY CONTACT
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDC	MAIN DISTRIBUTION CENTER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE
MIC	MICROPHONE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MOA	MULTIOUTLET ASSEMBLY
MSBD	MAIN SWITCHBOARD
MT	MOUNT
MTS	MANUAL TRANSFER SWITCH
MTR	MOTOR, MOTORIZED
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOADS
PA	PUBLIC ADDRESS
PB	PULL BOX OR PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PIV	POST INDICATING VALVE
PNL	PANEL
PP	POWER POLE
PR	PAIR
PRI	PRIMARY
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE (CONDUIT)
PWR	POWER
QTY	QUANTITY
RCPT	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RSC	RIGID STEEL CONDUIT
RTU	ROOF TOP UNIT
SEC	SECONDARY
SHT	SHEET
SIM	SIMILAR
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPKR	SPEAKER
SP	SPARE
SS	STAINLESS STEEL
S/S	STOP/START PUSHBUTTONS
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SYM	SYMMETRICAL
SYS	SYSTEM
TEL	TELEPHONE
TEL/DATA	TELEPHONE/DATA
TERM	TERMINAL
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TL	TWIST LOCK
TR	TAMPER RESISTANT
T-STAT	THERMOSTAT
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UT	UNDERGROUND TELEPHONE
UTIL	UTILITY
UV	ULTRAVIOLET
V	VOLT
VA	VOLT-AMPERES
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
W	WATT
W/	WITH
WAP	WIRELESS ACCESS POINT
WG	WIRE GUARD
WH	WATER HEATER
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER
XFR	TRANSFER

∠	ANGLE
@	AT
▲	DELTA
'	FEET
"	INCHES
#	NUMBER
Ø	PHASE
C	CENTER LINE
P	PLATE

ELECTRICAL SYMBOLS

MOUNTING HEIGHT	SYMBOL	DESCRIPTION
		2' X 4' RECESSED LIGHT
		LINEAR RECESSED LIGHT
		LINEAR PENDANT LIGHT
		2' X 2' RECESSED LIGHT (DESIGNATES (EM) LIFE SAFETY FIXTURE)
	HB	HIGH BAY LIGHT
		STRIP LIGHT
		ROUND RECESSED LIGHT
		ROUND RECESSED LIGHT (WALL WASH)
		ROUND SURFACE LIGHT
		ROUND PENDANT LIGHT
		CEILING EXIT LIGHT
90"		EXIT SIGN
		(DESIGNATES # OF HEADS)
84"		EMERGENCY BATTERY LIGHT
84"		EMERGENCY LIGHT (DOUBLE REMOTE HEADS)
84"		EMERGENCY LIGHT (SINGLE REMOTE HEAD)
48"	S	SINGLE POLE SWITCH
48"	S^2	2 POLE SINGLE THROW SWITCH
48"	S^3	3-WAY SWITCH
48"	S^4	4-WAY SWITCH
48"	S^K	KEYED SWITCH
48"	S^{PL}	SWITCH W/PILOT
48"	S^D	DIMMER SWITCH
48"	OS	OCCUPANCY SENSOR SWITCH
48"	S^{MC}	MOMENTARY CONTACT SWITCH
48"	S^T	TIMER SWITCH
48"	TD	TIME DELAY SWITCH
48"	TC	TIME CONTROL SWITCH
48"	PC	PHOTOCELL
	P	POWER POLE (OPEN OFFICE STYLE)
		SURGERY SERVICE COLUMN
		STATIC GROUND RECEPTACLE
		LIGHTNING PROTECTION AIR TERMINAL
		LIGHTNING PROTECTION COND. SPLICE
		GROUND ROD
	P	UTILITY SERVICE POWER POLE
18"		SINGLE RECEPT.
18"		DUPLEX RECEPT.
48"		(DESIGNATES SPECIFIC MOUNTING HEIGHT)
18"	GFI	GFI DUPLEX RECEPT.
18"	GFI WP	GFI WEATHERPROOF RECEPT.
18"		SPLIT DUPLEX RECEPT.
18"		DUPLEX ISOLATED GROUND RECEPT.
18"		DUPLEX RECEPT. ON EMERG. CIRCUIT
		FLOOR DUPLEX RECEPT.
	CLNG	CEILING DUPLEX RECEPT.
18"		QUADRUPLEX RECEPT.
18"		QUADRUPLEX RECEPT. ON EMERG. CIRCUIT
18"		240V RECEPTACLE
		RECEPT. ON CORD REEL
18"		SPECIAL RECEPT.
18"	J	JUNCTION BOX
	FJ	FLOOR JUNCTION BOX
	CJ CLNG	CEILING JUNCTION BOX
		MULTIOUTLET ASSEMBLY
	PS - D2	
	XX-1	MOTOR
	XX-1	IDENTITY (SEE SCHEDULE)

EXISTING TO REMAIN	RELOCATED	DEMOLISHED
XX-1	XX-1	XX-1
(E)XX-1	(R)XX-1	(D)XX-1

	COMB. MOTOR STARTER (FUSED)
M	MANUAL MOTOR STARTER
	SAFETY DISC. SW. (NON-FUSED)
	SAFETY DISC. SW. (FUSED)
R	RELAY
	PUSH BUTTON
60" T	THERMOSTAT
60" H	HUMIDISTAT
T1	TRANSFORMER
	BUS DUCT W/ PLUG IN DISCONNECT CABLE TAP BOX

MOUNTING HEIGHT	SYMBOL	DESCRIPTION
18"		TELEPHONE OUTLET
		FLOOR TELEPHONE OUTLET
18"	1V2D	VOICE/DATA OUTLET
		# OF VOICE AND # OF DATA OUTLETS. FOR EXAMPLE 1V2D = 1 VOICE, 2 DATA
		FLOOR DATA OUTLET
	CLNG	CEILING DATA OUTLET
18"		CATV OUTLET
84"	TV	TV OUTLET
84"		WALL SPEAKER
	S	CEILING SPEAKER
90"	S	HORN TYPE SPEAKER
84"	C	CLOCK
48"	F	FIRE ALARM PULL STATION
90"	F	FIRE ALARM HORN W/STROBE (CANDELAS)
90"	F	FIRE ALARM BELL
90"	F	FIRE ALARM BELL W/STROBE (CANDELAS)
90"	F	FIRE ALARM CHIME W/STROBE (CANDELAS)
78"		FIRE ALARM DOOR HOLDER
78"		FIRE ALARM DOOR CLOSER
60"	FR	FIRE ALARM SHUT DOWN RELAY
		THERMAL DETECTOR
	S	DUCT SMOKE DETECTOR
		CEILING SMOKE DETECTOR
		SPRINKLER FLOW SWITCH
		SPRINKLER VALVE TAMPER SWITCH
		SPRINKLER LEVEL SWITCH
		SPRINKLER PRESSURE SWITCH
		SPRINKLER TEMPERATURE SWITCH
90"		DOOR BELL
90"		DOOR BUZZER
90"		DOOR CHIME
60"	D	DOOR SIGNAL
48"	ES	ELECTRIC STRIKE
48"	ML	MAGNETIC LOCK
48"	CL	COMBINATION LOCK
84"	DC	DOOR CONTACT
48"	CR	CARD READER
48"		SECURITY KEYPAD
90"	MD	MOTION DETECTOR
48"		NURSE CALL EMERG. STATION
48"		NURSE CALL CODE BLUE STATION
48"		NURSE CALL DUTY STATION
48"	S	NURSE CALL STAFF STATION
48"	P^2	NURSE CALL PATIENT STATION
48"	P^2	NURSE CALL DUAL PATIENT STATION
90"	N^1	NURSE CALL DOME LIGHT
90"	N^2	
90"	N^4	NUMBER INDICATES QUANTITY OF LIGHTS
		LIGHTNING PROTECTION CONDUCTOR
		BOND OR CONNECTION
		GROUND ROD
		DOWN CONDUCTOR

ELECTRICAL SYMBOL NOTES

D3 / 1d — THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.

EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b".

D6D/1 / 2e — EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME SWITCHES, CENTER/OUTBOARD MULTILEVEL SWITCHING.

E1 / 1 — EXIT LIGHTS: STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 1.

<unnamed>d — DEVICES: THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d".

d — THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

D e — WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.

<unnamed> — SPECIAL CONNECTIONS: THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL.

PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

FLOOR CLEARANCE AREA

XX-1 — MOTOR CONNECTIONS: THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS.

T1 — TRANSFORMERS: THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

CONDUIT IN CEILING, FLOOR, OR WALL AS REQUIRED BY FIELD CONDITIONS

CONDUIT IN FLOOR

#12 — CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 PHASE/ NEUTRAL CONDUCTORS AND 1 #12 GROUND IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

#10 — CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE AND 1 #10 GROUND IN 3/4" CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT.

LP4N-102 / 1, 3, 5 — HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD LP4N-102; CIRCUITS 1, 3, 5.

GRAPHICAL REPRESENTATION OF PHASING, TYPICAL FOR ALL SYMBOLS.

EXISTING TO REMAIN (GRAY)
EXISTING TO BE REMOVED (DASHED)
NEW (BLACK)
ITEM TO BE REMOVED
AREA NOT IN CONTRACT

REVISION NUMBER - SHOWN ON PLANS

NUMBER OF DETAIL ON SHEET
NUMBER OF SHEET WHERE DETAIL APPEARS

1 — KEYED NOTE (SEE SCHEDULE)

ROOM / ### — ROOM NAME AND NUMBER

GENERAL ELECTRICAL NOTES

A. ALL CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. ALL RACEWAY WITHIN THE STRUCTURE AND FLOOR SLAB SHALL BE METAL. UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.

B. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED.

C. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS. SEE ARCHITECTURAL ELEVATIONS FOR LOCATIONS OF ELECTRICAL DEVICES AT PATIENT BED HEADWALLS.

D. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.

E. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON DRAWINGS EXCEPT FOR ITEMS LISTED IN NOTE G.

G. TV OUTLETS, VOLUME CONTROLS, TELEPHONE OUTLETS, DATA OUTLETS, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.

H. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:

3/4"C	TV OUTLETS
3/4"C	VOLUME CONTROLS
3/4"C	TELEPHONE OUTLETS
3/4"C	INFORMATION OUTLETS
3/4"C	FIRE ALARM DEVICES

I. PROVIDE FIRE ALARM DEVICES AND CONTROL PANELS AS REQUIRED FOR A FULLY FUNCTIONAL FIRE ALARM SYSTEM. SUBMIT SHOP DRAWINGS SHOWING LOCATIONS AND QUANTITIES OF ALL DEVICES.

SPECIFIC CODE NOTES

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.
1. CONDUITS MAY PENETRATE WALLS OR PARTITIONS, PROVIDED THEY ARE FIRE-STOPPED.
2. OPENINGS FOR STEEL ELECTRICAL BOXES NOT EXCEEDING 16 SQUARE INCHES ARE PERMITTED PROVIDED OPENINGS DO NOT AGGREGATE MORE THAN 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR PARTITION.
3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.

B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.

C. RECESSED LIGHTING FIXTURES INSTALLED IN FIRE RATED CEILING ASSEMBLIES SHALL BE FIRE RATED FIXTURES BEARING THE UL FIRE RATED LABEL. FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE UL FIRE RESISTANCE DIRECTORY, AND SHALL INCLUDE A FIRE RATED ENCLOSURE INSTALLED OVER THE FIXTURE THAT MEETS THE REQUIREMENTS OF THE UL FIRE RESISTANCE DIRECTORY.

ELECTRICAL SHEET INDEX

* NOTE *
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

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REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: DIW
CHECKED BY: DIW

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: ELECTRICAL GENERAL

SHEET NO.: E-001

MOXIFY
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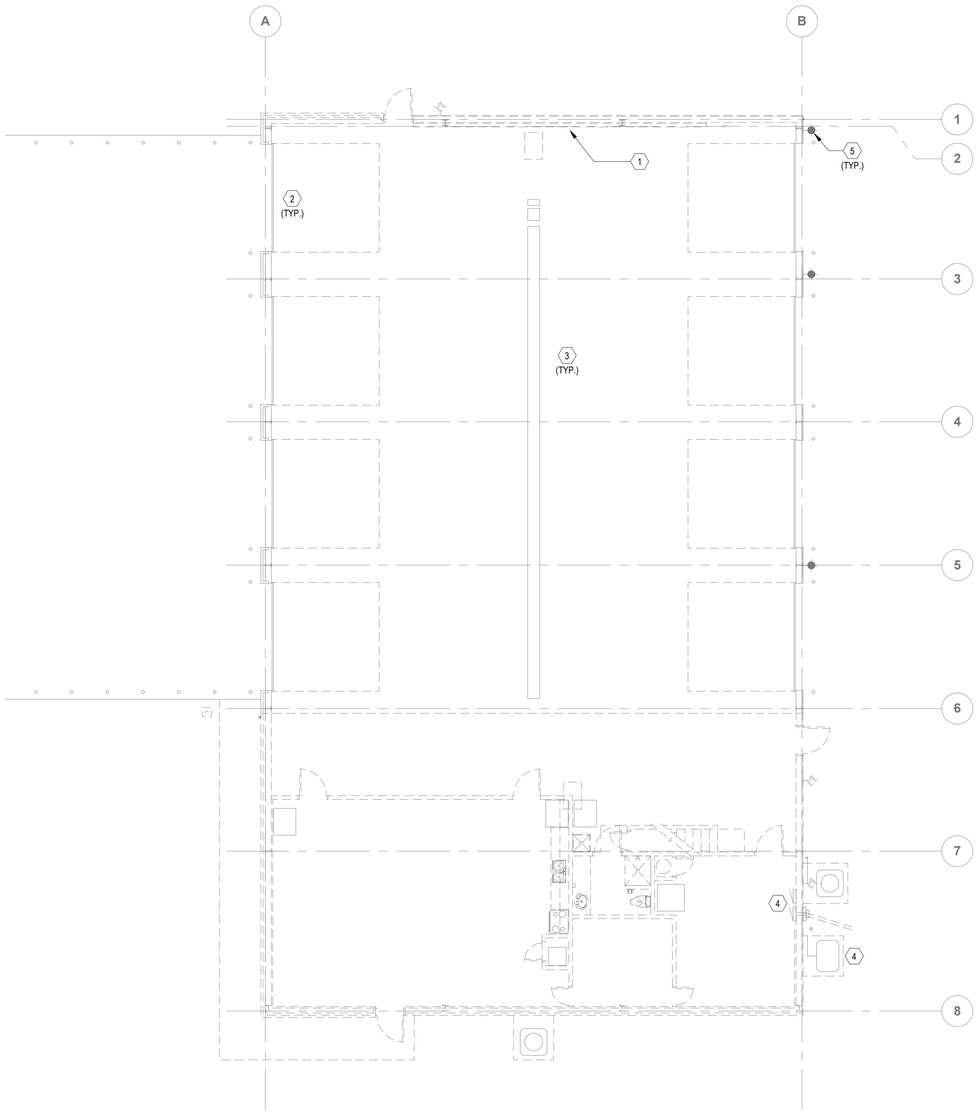

1 E-111 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"
0 4' 8' 16'
PROJECT NORTH

DEMOLITION GENERAL NOTES

A SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

B DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN AREAS BEING DEMOLISHED UNLESS NOTED OTHERWISE.

C DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

D FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

E FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATIONS/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

G DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

H PROVIDE NEMA 3R SERVICE ENTRANCE PANELBOARD FOR TEMPORARY POWER TO FACILITY DURING CONSTRUCTION.

KEYNOTES

1 DEMOLISH EXISTING RECEPTACLES ALONG WALL.

2 MAINTAIN POWER TO OVERHEAD DOORS THROUGH DEMOLITION AND CONSTRUCTION.

3 RETAIN POWER TO LIGHTING AND RECEPTACLES THROUGHOUT TRUCK BAY AREA.

4 EXISTING PANELBOARDS, GENERATOR, AND TRANSFER SWITCH TO BE REMOVED. COORDINATE REQUIRED OUTAGE WITH UTILITY.

5 EXISTING EXTERIOR LIGHT TO REMAIN.

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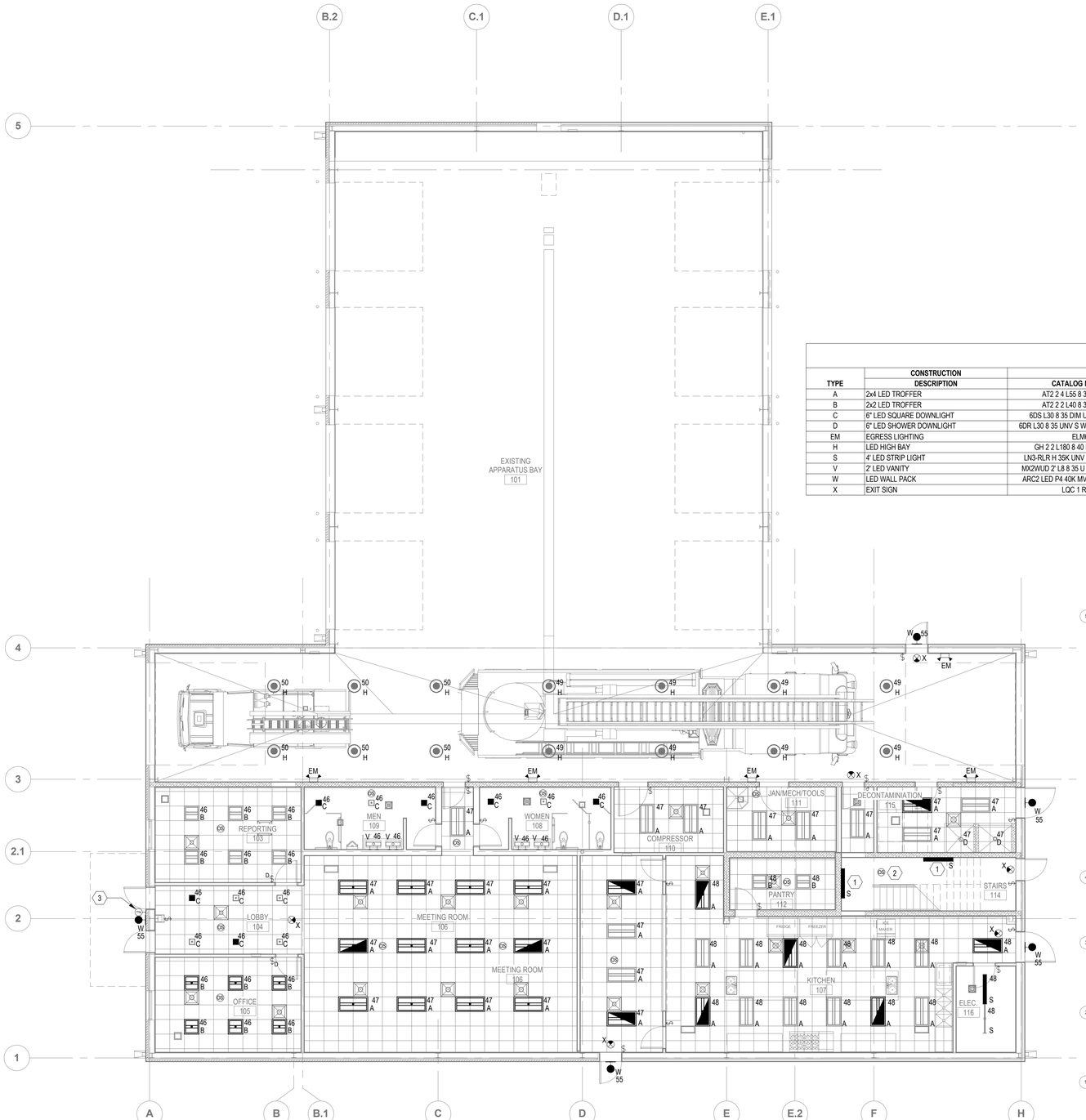
REVISIONS

REV.	DATE	DESCRIPTION

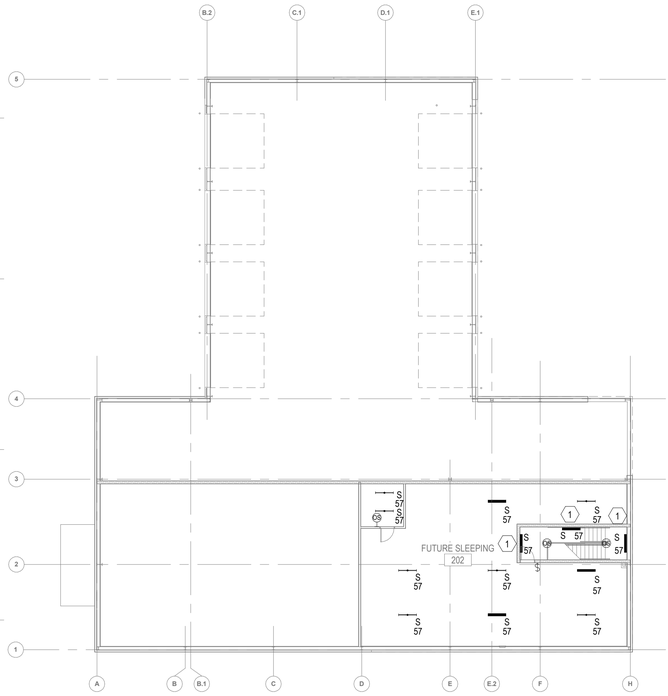
PROJ. MANAGER:	SAT
DRAWN BY:	DIW
CHECKED BY:	DIW

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SHEET NO.: E-111



1 EL-211 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"
0 4' 8' 16'
PROJECT NORTH



2 EL-211 SECOND FLOOR LIGHTING PLAN
1/16" = 1'-0"
0 8' 16' 32'
PROJECT NORTH

LIGHTING GENERAL NOTES

A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
E PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
F CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
G POWER EXIT SIGNS AND TYPE "EM" FIXTURES FROM ADJACENT LIGHTING CIRCUIT IN SAME SPACE.
H SWITCHES AND SENSORS CONTROL THE AREAS IN WHICH THEY ARE LOCATED UNLESS OTHERWISE NOTED.

KEYNOTES

1 SURFACE MOUNT TYPE "S" FIXTURE AT 9' AFF.
2 AFTER 30 MINUTES OF VACANCY, DIM FIXTURES IN STAIRS 114 TO 50% LIGHT OUTPUT.
3 PROVIDE JUNCTION BOX FOR FUTURE SIGNAGE. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION.

LIGHTING FIXTURE SCHEDULE

TYPE	CONSTRUCTION DESCRIPTION	PRODUCT CATALOG NUMBER	PRODUCT MFR	CONSTRUCTION MOUNTING	LIGHT SOURCE LUMENS	LIGHT SOURCE CCT	LIGHT SOURCE CRI	ELECTRICAL VOLT	ELECTRICAL WATTS	NOTE
A	2x4 LED TROFFER	AT2 2 4 L55 8 35 D DIM 120	HE WILLIAMS	LAY-IN	5500 lm	3500 K	80	120 V	48 W	PROVIDE 90 MINUTES OF BATTERY BACKUP FOR SHADED FIXTURES.
B	2x2 LED TROFFER	AT2 2 2 L40 8 35 D DIM 120	HE WILLIAMS	LAY-IN	4000 lm	3500 K	80	120 V	38 W	
C	6" LED SQUARE DOWNLIGHT	6DS L30 8 35 DIM UNV R W OF CS I	HE WILLIAMS	RECESSED	3000 lm	3500 K	80	120 V	31 W	
D	6" LED SHOWER DOWNLIGHT	6DR L30 8 35 UNV S W OF CS WET/CC AM	HE WILLIAMS	RECESSED	3000 lm	3500 K	80	120 V	12 W	PROVIDE 90 MINUTES OF BATTERY BACKUP FOR SHADED FIXTURES.
EM	EGRESS LIGHTING	ELM6L	LITHONIA	WALL	1100 lm	5000 K	80	120 V	12 W	MOUNT AT 10' AFF.
H	LED HIGH BAY	GH 2 2 L180 8 40 HA FP DIM 120	HE WILLIAMS	SUSPENDED	18000 lm	4000 K	80	120 V	126 W	
S	4' LED STRIP LIGHT	LN3-RLR H 35K UNV SM/SK36 AEB W 4	PRIMUS	SURFACE/SUSPENDED	4900 lm	3500 K	80	120 V	36 W	PROVIDE 90 MINUTES OF BATTERY BACKUP FOR SHADED FIXTURES.
V	2' LED VANITY	MX2WUD 2' L8 8 35 U / L8 8 35 D F F 120	HE WILLIAMS	SURFACE	3200 lm	3500 K	80	120 V	14 W	
W	LED WALL PACK	ARC2 LED P4 40K MVOLT E8WC DBLXD	LITHONIA	WALL	4000 lm	4000 K	80	120 V	24 W	PROVIDE 90 MINUTES OF COLD WEATHER BATTERY BACKUP.
X	EXIT SIGN	LQC 1 R EL N	LITHONIA	UNIVERSAL				120 V	5 W	PROVIDE 90 MINUTES OF BATTERY BACKUP.

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08/05/22

HENNESSEY FIRE DEPARTMENT
REMODEL/ADDITION
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HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: DIW
CHECKED BY: DIW

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: LIGHTING PLAN
SHEET NO.: EL-211

POWER GENERAL NOTES

A WHERE CONNECTED TO A 20A, BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

C REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.

D CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

E PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

F CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

G ALL RECEPTACLES IN KITCHEN SHALL HAVE GFI PROTECTION. DEVICES THAT ARE NOT READILY ACCESSIBLE SHALL BE PROTECTED BY GFI BREAKER.

H RECONNECT ALL REMAINING EXISTING LOADS TO PANEL LP. PROVIDE COMPLETE PANEL SCHEDULE WITH ALL LOADS ACCURATELY LABELED.

KEYNOTES

1 PROVIDE POWER AND CONTROLS FOR NEW OVERHEAD DOOR. PROVIDE INTERCONNECTING WIRING AS REQUIRED.

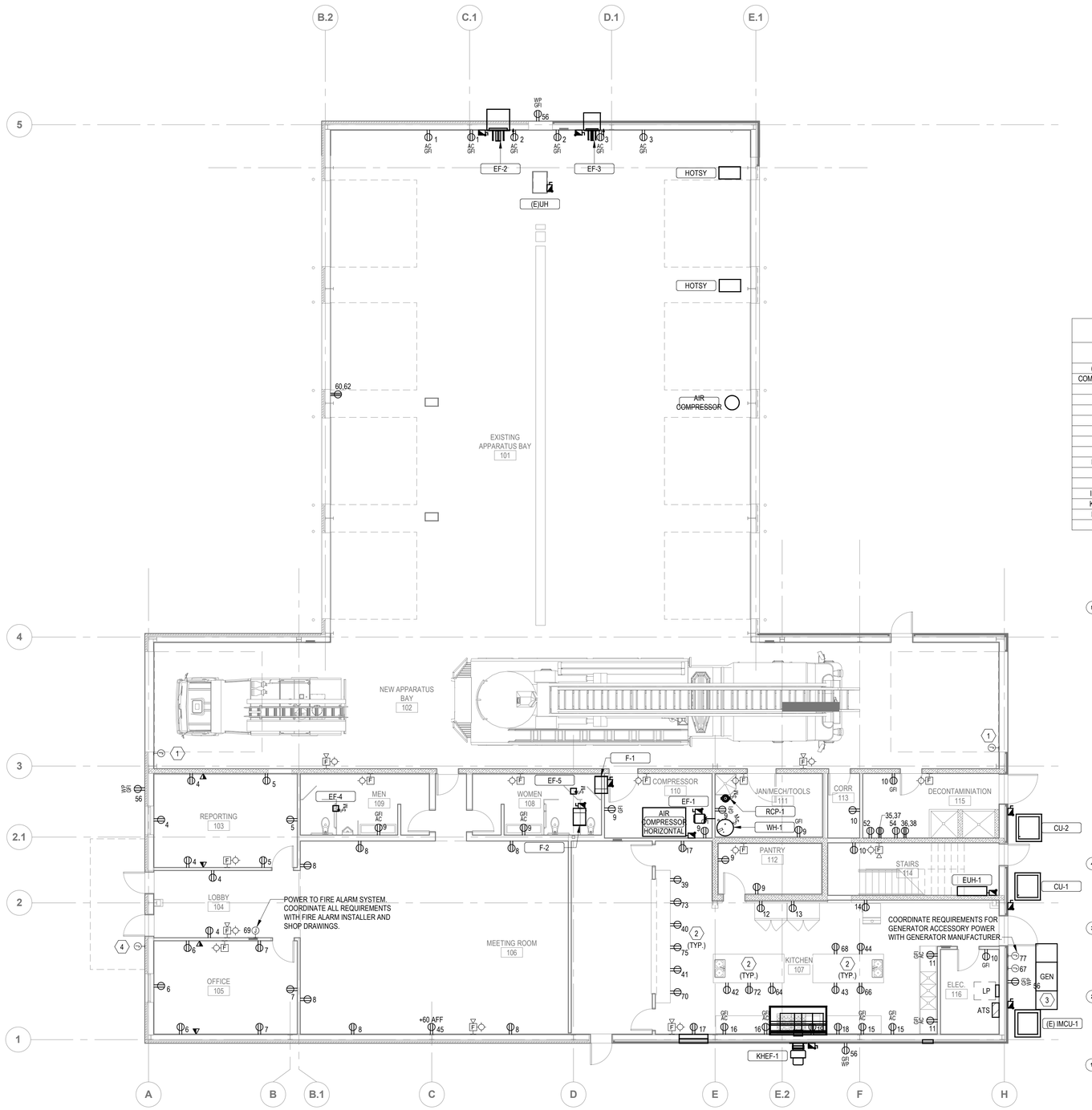
2 REFER TO ARCHITECTURAL PLANS FOR RECEPTACLE LOCATIONS WITHIN MILLWORK.

3 COORDINATE EXACT LOCATION OF GEENRATOR AND TRANSFORMER WITH CIVIL, SITE, UTILITY, AND ALL OTHER TRADES.

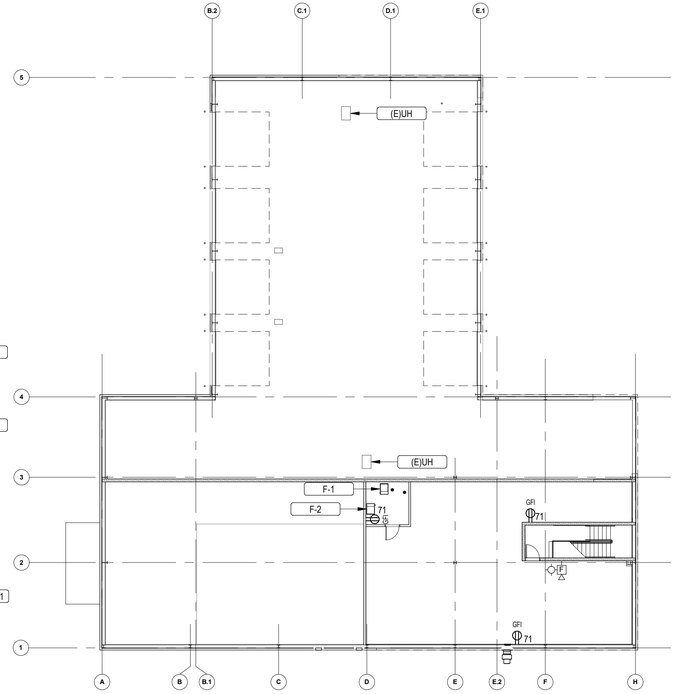
4 PROVIDE JUNCTION BOX FOR FUTURE DOORBELL. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION.

EQUIPMENT CONNECTION SCHEDULE

TAG	CIRCUIT	INPUTS APPARENT LOAD	MOCP	VOLTAGE	CONDUIT & WIRE SIZE	NOTE
(E) UH	34	0 VA	0 A	120 V		
COMPRESSOR	31,33	1200 VA	20 A	240 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
CU-1	20,22	5184 VA	45 A	240 V	(2) #6, (1) #10 GROUND IN 1" CONDUIT	
CU-2	24,26	5184 VA	45 A	240 V	(2) #6, (1) #10 GROUND IN 1" CONDUIT	
EF-1	21	500 VA	15 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
EF-2	25	900 VA	15 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
EF-3	23	700 VA	15 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
EF-4	59	500 VA	20 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
EF-5	59	500 VA	20 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
EUH-1	30,32	3840 VA	20 A	240 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
F-1	27	1334 VA	15 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
F-2	29	1334 VA	15 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
IMCU-1	51,53	5184 VA	45 A	240 V	(2) #6, (1) #10 GROUND IN 1" CONDUIT	
KHEF-1	28	1656 VA	15 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
RCP-1	65	500 VA	20 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	
WH-1	61	500 VA	20 A	120 V	(2) #12, (1) #12 GROUND IN 3/4" CONDUIT	



1 EP-211 FIRST FLOOR POWER PLAN
1/8" = 1'-0"
0 8' 16' 24'
PROJECT NORTH



2 EP-211 SECOND FLOOR POWER PLAN
1/16" = 1'-0"
0 8' 16' 32'
PROJECT NORTH

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HENNESSEY, OKLAHOMA

REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: DIW
CHECKED BY: DIW

DATE: 08/08/2022
PROJECT NO.: 2111

SHEET TITLE: POWER PLAN

SHEET NO.: EP-211

Branch Panel: LP

Location: ELEC. 116
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/240
Phases: 1
Wires: 3

A.I.C. Rating: PER POWER SYSTEM STUDIES
Mains Type: MAIN CB
Mains Rating: 400 A
MCB Rating: 400 A

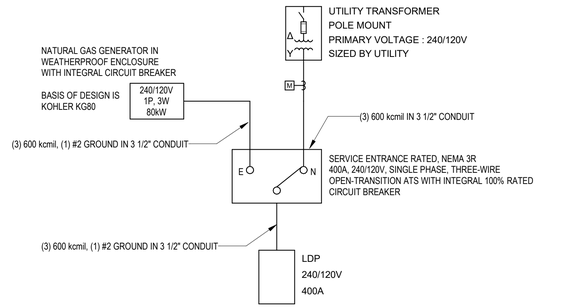
Notes:
PROVIDE INTEGRAL SURGE PROTECTION. PROVIDE 100% RATED MAIN CIRCUIT BREAKER.

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	RCPT - NORTH WALL	20 A	1	360 VA	360 VA			1	20 A	RCPT - NORTH WALL	2
3	RCPT - NORTH WALL	20 A	1			360 VA	900 VA	1	20 A	RCPT REPORTING 103	4
5	RCPT REPORTING 103	20 A	1	540 VA	540 VA			1	20 A	RCPT OFFICE 105	6
7	RCPT OFFICE 105	20 A	1			540 VA	1080 VA	1	20 A	RCPT MEETING ROOM 106	8
9	RCPT Room 108, 110, 112, 111, 109	20 A	1	1440 VA	1080 VA			1	20 A	RCPT 219, 115, 114, 116, EXTERIOR	10
11	RCPT KITCHEN 107 - EAST	20 A	1			360 VA	1000 VA	1	20 A	RCPT KITCHEN - REFRIGERATOR (NOTE 1)	12
13	RCPT KITCHEN - FREEZER (NOTE 1)	20 A	1	1000 VA	180 VA			1	20 A	RCPT KITCHEN - ICE MAKER (NOTE 1)	14
15	RCPT - KITCHEN 107 - SOUTH	20 A	1			360 VA	360 VA	1	20 A	RCPT - KITCHEN 107 - SOUTH	16
17	RCPT KITCHEN 107	20 A	1	360 VA	180 VA			1	20 A	RCPT - KITCHEN 107 - SOUTH	18
19	RCPT - KITCHEN 107 - SOUTH	20 A	1			180 VA	2592 VA	2	45 A	CU-1	20
21	EF-1	15 A	1	500 VA	2592 VA						22
23	EF-3	15 A	1			700 VA	2592 VA	2	45 A	CU-2	24
25	EF-2	15 A	1	900 VA	2592 VA						26
27	F-1	15 A	1			1334 VA	1656 VA	1	20 A	KHEF-1	28
29	F-2	15 A	1	1334 VA	1920 VA			2	20 A	EUH-1	30
31	AIR COMPRESSOR	20 A	2			600 VA	1920 VA				32
33				600 VA	0 VA			1	20 A	SPEC Space 214	34
35	DECON. DRYER	20 A	2			1200 VA	1200 VA	2	20 A	DECON. DRYER	36
37				1200 VA	1200 VA						38
39	RCPT KITCHEN 107	20 A	1			1450 VA	1450 VA	1	20 A	RCPT KITCHEN 107	40
41	RCPT KITCHEN 107	20 A	1	1450 VA	1450 VA			1	20 A	ISLAND RECEPTACLES	42
43	ISLAND RECEPTACLES	20 A	1			1450 VA	1450 VA	1	20 A	ISLAND RECEPTACLES	44
45	TV MEETING ROOM 106	20 A	1	180 VA	884 VA			1	20 A	LIGHTING - 103-105, 108, 109	46
47	LIGHTING - 106, 110, 115	20 A	1			1224 VA	820 VA	1	20 A	LIGHTING - KITCHEN, PANTRY, ELEC	48
49	HIGH BAY LIGHTING	20 A	1	1008 VA	756 VA			1	20 A	HIGH BAY LIGHTING	50
51	IMCU-1	45 A	2			2592 VA	180 VA	1	20 A	RCPT DECON. 115	52
53				2592 VA	180 VA			1	20 A	RCPT DECON. 115	54
55	EXTERIOR LIGHTING	20 A	1			133 VA					56
57	LITES FUTURE SLEEPING 215	20 A	1	478 VA							58
59	EF-4, EF-5	20 A	1			1000 VA	600 VA	2	20 A	AIR COMPRESSOR	60
61	WH-1	20 A	1	500 VA	600 VA						62
63							1450 VA	1	20 A	RCPT KITCHEN 107	64
65	RCP-1	20 A	1	500 VA	1450 VA			1	20 A	RCPT KITCHEN 107	66
67	GENERATOR ACCESSORIES	20 A	1			500 VA	1450 VA	1	20 A	RCPT KITCHEN 107	68
69	FACP - PROVIDE RED LOCK-ON BREAKER	20 A	1	500 VA	1450 VA			1	20 A	RCPT KITCHEN 107	70
71	SECOND FLOOR RECEPTACLES	20 A	1			540 VA	1450 VA	1	20 A	RCPT KITCHEN 107	72
73	RCPT KITCHEN 107	20 A	1	1450 VA	0 VA			1	20 A	SPARE	74
75	RCPT KITCHEN 107	20 A	1			1450 VA	0 VA	1	20 A	SPARE	76
77	GENERATOR ACCESSORIES	20 A	1	500 VA	0 VA			1	20 A	SPARE	78
79	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	80
81	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	82
83	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	84
			Total Load:	34796 VA		38110 VA					
			Total Amps:	290 A		318 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	23976 VA	100.00%	23976 VA		
RCPT	37110 VA	63.47%	23555 VA	**Total Conn. Load:**	72906 VA
LITES	5283 VA	125.00%	6603 VA	**Total Est. Demand:**	60671 VA
SPEC	2700 VA	100.00%	2700 VA	**Total Conn.:**	304 A
HEAT	3840 VA	100.00%	3840 VA	**Total Est. Demand:**	253 A

Notes:



1 E-501 ONE-LINE DIAGRAM
NOT TO SCALE

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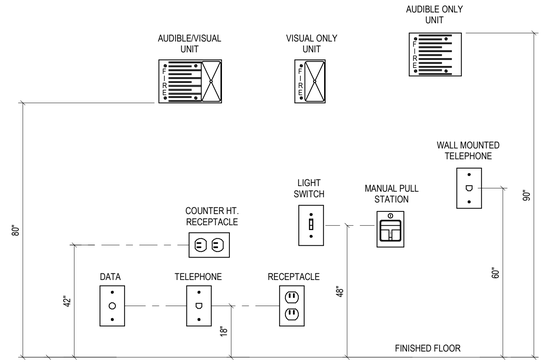
REVISIONS

REV.	DATE	DESCRIPTION

PROJ. MANAGER: SAT
DRAWN BY: DIW
CHECKED BY: DIW

DATE: 08/08/2022
PROJECT NO.: 2111

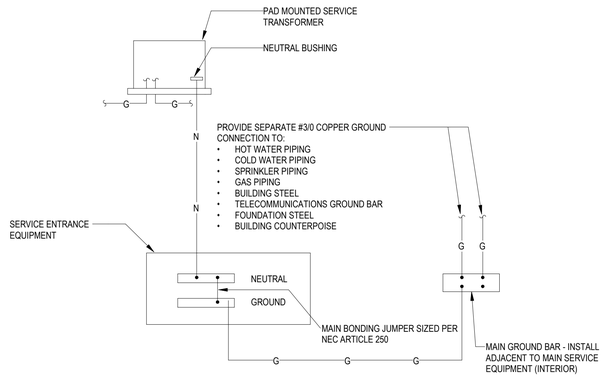
SHEET TITLE: ELECTRICAL SCHEDULES
SHEET NO.: E-501



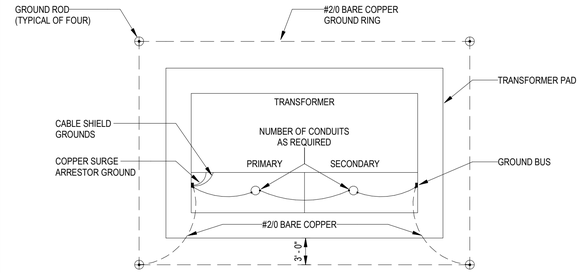
NOTES:

A. VERIFY EXACT MOUNTING HEIGHTS WITH PROJECT REQUIREMENTS.
B. ALL NEW DEVICES INSTALLED SHALL BE INSTALLED ACCORDING TO THE MOUNTING HEIGHTS INDICATED ABOVE UNLESS OTHERWISE NOTED.

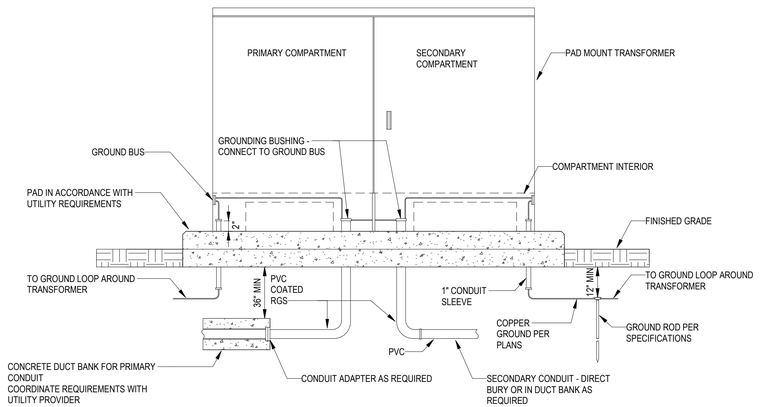
1 E-601 MOUNTING HEIGHT DETAIL
NOT TO SCALE



2 E-601 GROUNDING RISER
NOT TO SCALE



3 E-601 PAD MOUNT TRANSFORMER GROUNDING DETAIL
NOT TO SCALE



4 E-601 PAD MOUNT TRANSFORMER INTERNAL DETAIL
NOT TO SCALE

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SHEET TITLE:	ELECTRICAL DETAILS
SHEET NO.:	E-601

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