City of

PENDLETON, OREGON

WWTRRF IMPROVEMENTS PROJECT - OPERATIONAL BUILDINGS

MAY 2026

PROJECT LOCATION

LOCATION MAP

N.T.S.

OWNER

CITY OF PENDLETON
4300 SW HOUTAMA RD
PENDLETON, OR 97801
CONTACT: KYLE WILLMAN
PHONE: (541)-276-3372

CIVIL ENGINEER

KELLER ASSOCIATES, INC.
1060 JADWIN AVE #375
RICHLAND, WA 99352
CONTACT: CURTIS BUTTEREFIELD
PHONE: (509) 940-2080

811

SAFETY IS IN YOUR HANDS.
EVERY DIG. EVERY TIME.

VICINITY MAP

N.T.S.

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
101193PE
Digitally Signed 2026.05.01 21:57:34-07'00'
OREGON
SEP. 13, 2023
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

TITLE SHEET

DRAWN: DAC | CHECK: EC

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 1

FIGURE NO. G-001

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1101_GENG-001 TITLE SHEET-OPS.DWG LAST SAVED: 4/29/2026 2:28 PM PRINTED: 4/29/2026 2:54 PM

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DISCIPLINE DESIGNATORS

G	GENERAL DRAWINGS
V	SURVEY DRAWINGS
C	CIVIL DRAWINGS
ES	ELECTRICAL SITE DRAWINGS
D	DEMOLITION DRAWINGS (STRUCTURES)
A	ARCHITECTURAL DRAWINGS
S	STRUCTURAL DRAWINGS
MP	PLUMBING DRAWINGS
MH	HVAC DRAWINGS
M	MECHANICAL PROCESS DRAWINGS
E	ELECTRICAL DRAWINGS
EI	ELECTRICAL INSTRUMENTATION DRAWINGS

CIVIL SHEET TYPES

0XX	GENERAL (SYMBOLS LEGEND, NOTES, KEY MAPS, ETC.)
1XX	SITE (TOPOGRAPHY, DEMOLITION, SITE LAYOUTS, ETC.)
2XX	GRADING (GRADING, DRAINAGE, EXCAVATION, ETC.)
3XX	ROADWAY (ROADWAY DESIGN, PLAN & PROFILES, ETC.)
4XX	UTILITY (PLAN VIEW, PLAN & PROFILES, ETC.)
5XX	PROJECT DETAILS
55X	AGENCY DETAILS
6XX	MISCELLANEOUS

STRUCTURE SHEET TYPES

0XX	GENERAL (SYMBOLS LEGEND, NOTES, ETC.)
1XX	PLANS (HORIZONTAL VIEWS, ENLARGED VIEWS)
2XX	ELEVATIONS (VERTICAL VIEWS)
3XX	SECTIONS (SECTION VIEWS)
4XX	MISCELLANEOUS
5XX	PROJECT DETAILS
6XX	SCHEDULES AND DIAGRAMS
7XX	USER DEFINED OR INSTRUMENTATION P&ID

X STRUCTURE DESIGNATORS

B2	EFFLUENT SAMPLE SHED
F	NEW ADMINISTRATION BUILDING (NEW)
G	STORAGE BUILDING
H	EXISTING ADMINISTRATION BUILDING (EXISTING)

SHEET NUMBERING KEY

DISCIPLINE DESIGNATOR → M - 101 - C ← STRUCTURE DESIGNATOR (OPTIONAL)

SHEET TYPE

DETAIL & SECTION CALLOUT KEY

DISCIPLINE DETAIL DESIGNATORS

C	CIVIL (C-500 SHEETS)	H	HVAC (MH-500 SHEETS)
A	ARCHITECTURAL (A-500 SHEETS)	M	MECHANICAL (M-500 SHEETS)
S	STRUCTURAL (S-500 SHEETS	E	ELECTRICAL (E-500 SHEETS)
P	PLUMBING (MP-500 SHEETS)	EI	INSTRUMENTAL (EI-500 SHEETS)

(REFERENCE)

RE: A1/S-301-A ← (SECTION OR DETAIL NO./SHEET NO.)

RE: C1201 ← (DISCIPLINE DETAIL NO. SEE RESPECTIVE 500 SHEETS)

C2 ← (SECTION OR DETAIL NO.) — A1

S-301-B ← (SHEET NO.) — C-204

M3031 ← (DISCIPLINE DETAIL NO. SEE RESPECTIVE 500 SHEETS)

(SECTION OR DETAIL NO./GRID LOCATION)

A1 TYPICAL SECTION ← (DETAIL TITLE)

SCALE: 1"=1' 0 1 2

(DISCIPLINE DETAIL NO. SEE RESPECTIVE 500 SHEETS)

S2135 PROJECT DETAIL ← (DETAIL TITLE)

N.T.S.

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1060 Jadwin Avenue, Suite 375
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REGISTERED PROFESSIONAL ENGINEER
101193PE
Digitally Signed 2026.05.01 21:59:06-07'00'
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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

SHEET INDEX - OPS BUILDINGS

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1-1/2 Inches

PROJECT NO. 225096-001 | 2

FIGURE NO. G-002

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GENERAL ABBREVIATIONS

A	
A	-AMPERE
	-AIR
AB	-ANCHOR BOLT
ABI	-ADDITIVE BID ITEM
AC	-ASPHALTIC CONCRETE
	-ACOUSTIC
A/C	-AIR CONDITIONING
ACC	-AREA CONTROL CENTER
ACOU	-ACOUSTIC
ACP	-ASBESTOS
ACT	-ACOUSTICAL CEILING TILE
AD	-ANAEROBIC DIGESTER
ADD	-ADDITION(AL)
ADF	-AVERAGE DESIGN FLOW (AVERAGE DAY, PEAK MONTH)
ADH	-ADHESIVE
ADJ	-ADJUSTABLE
ADPT	-ADAPTER
AF	-AIR FILTER
AFF	-ABOVE FINISHED FLOOR
AHU	-AIR HANDLING UNIT
AL	-ALUMINUM, ALUM
ALP	-AIR LOW PRESSURE
ALT	-ALTERNATE
A/O	-ANOXIC
	-OXIC
AP	-AIR PROCESS
APPX	-APPROXIMATE(LY)
AR	-AIR RETURN
ARV	-AIR RELEASE VALVE
ARCH	-ARCHITECTURAL
AS	-AIR SUPPLY
ASME	-AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	-AMERICAN SOCIETY OF TESTING MATERIALS
ATM	-ATMOSPHERE
AUTO	-AUTOMATIC
AUX	-AUXILIARY
AV	-ANGLE VALVE
AVAR	-AIR VACUUM AND AIR RELEASE
AVE	-AVENUE
B	
B	-BOTTOM
B/C	-BOTTOM OF CURB
BAC	-BACTERIOLOGICAL
BC	-BEGINNING OF CURVE
BCR	-BEGINNING OF CURVE CENTER
BD	-BOARD
BF	-BLIND FLANGE
BFP	-BACKFLOW PREVENTER
BFV	-BUTTERFLY VALVE
BHP	-BRAKE HORSEPOWER
BKR	-BREAKER
BLDG	-BUILDING
BLK	-BLOCK
BLVD	-BOULEVARD
BO	-BLOW OFF
BOD	-BIOCHEMICAL OXYGEN DEMAND
BOD5	-BIOCHEMICAL OXYGEN DEMAND, 5 DAY
BOP	-BOTTOM OF PIPE
	-BACK OF PIPE
BOT	-BOTTOM
BP	-POINT OF BEGINNING
BRG	-BEARING
BSN	-BAR SCREEN
BTD	-BIOTOWER DRAIN
BTI	-BIOTOWER INFLUENT
BTU	-BRITISH THERMAL UNIT
BV	-BALL VALVE
BVCE	-BEGIN VERTICAL CURVE ELEVATION
BVCS	-BEGIN VERTICAL CURVE STATION
C	
C	-CELSIUS
	-CONDUIT
CAB	-DIRECT BURIAL CABLE
	-CABINET
CAF	-COMBUSTION AIR FAN
CATV	-CABLE TELEVISION
CB	-CATCH BASIN
CBOD5	-CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY
C/C	-CENTER TO CENTER
CCP	-CONCRETE CYLINDER PIPE
CCSP	-CONCRETE PINED AND COATED STEEL PIPE
CD	-CEILING DIFFUSER
CDF	-CONTROL DENSITY FILL
CDR	-CONDUCTOR
CDS	-CHEMICAL DOSING
CDU	-CONDENSING UNIT
CED	-CEILING EXHAUST DIFFUSER
CER	-CEILING EXHAUST REGISTER
CF	-CUBIC FOOT
CFM	-CUBIC FEET PER MINUTE
CFR	-CODE OF FEDERAL REGULATIONS
CFS	-CUBIC FEET PER SECOND
CH	-CHANNEL
CI	-CAST IRON
CIP	-CAST IRON PIPE
CJ	-CONSTRUCTION JOINT
	-CONTROL JOINT
CK	-CHECKER(ED)
CKPL	-CHECKER PLATE
CKT	-CIRCUIT
CL	-CHLORINE LIQUID
	-CHAIN LINK
	-CLEARANCE
	-CENTERLINE
CL2	-CHLORINE
CLG	-CEILING
CLO	-CHLORINE
CLR	-CLEAR
CLS	-CHLORINE SOLUTION
CMC	-CEMENT MORTAR COATED
CML	-CEMENT MORTAR LINED
CMP	-CORRUGATED METAL PIPE
CMU	-CONCRETE MASONRY UNIT
CND	-CONDUIT
CNTL	-CONTROL
CO	-CLEANOUT
COD	-CHEMICAL OXYGEN DEMAND
COL	-COLUMN
COM	-COMMINUTOR
CON	-CONVEYOR
CONC	-CONCRETE
COND	-CONDITION
CONN	-CONNECTION
CONST	-CONSTRUCTION
CONT	-CONTINUOUS
COTG	-CLEANOUT TO GRADE
CPLG	-COUPLING
CPVC	-CHLORINATED POLYVINYL CHLORIDE
CR	-CIRCLE
CSL	-COMBINED SLUDGE
CT	-CONTACT TIME
CTF	-CENTRIFUGE
CU	-CUBIC
CV	-CHECK VALVE
CV	-CONTROL VALVE
C/W	-COMPLETE WITH
CW	-CULINARY WATER (POTABLE)
CWR	-COOLING WATER RETURN
CWS	-COOLING WATER SUPPLY
CY	-CUBIC YARD
D	
DB	-DUCT BANK
	-DOWEL BAR
DBA	-DEFORMED BAR ANCHOR
DBL	-DOUBLE
DEMO	-DEMOLISH
DET	-DETAIL
DF	-DRINKING FOUNTAIN
DI	-DUCTILE IRON
DIA	-DIAMETER
DIAG	-DIAGRAM
DIFF	-DIFFERENTIAL
DIM	-DIMENSION
DIP	-DUCTILE IRON PIPE
DIR	-DIRECTION
DISCH	-DISCHARGE
DO	-DISSOLVED OXYGEN
DR	-DRAIN
DS	-DRUM SCREEN
DTL	-DETAIL
DWF	-DRY WEATHER FLOW
DWG	-DRAWING
E	
(E)	-EXISTING
E	-EPOXY
	-EAST
EA	-EACH
ECC	-ECCENTRIC
EF	-EACH FACE
	-EXHAUST FAN
EFF	-EFFLUENT
EG	-EDGE OF GRAVEL
EJ	-EXPANSION JOINT
EL	-ELEVATION
ELEV	-ELEVATION
ELL	-ELBOW
EMBED	-EMBEDMENT
ENG	-ENGINEERED
EOP	-END OF PIPE
EP	-EDGE OF PAVEMENT
EPDM	-ETHYLENE PROPYLENE DIENE MONOMER
EQ	-EQUAL
EQUIP	-EQUIPMENT
EOR	-ENGINEER OF RECORD
EP	-EDGE OF PAVEMENT
EQ	-EQUAL
	-EQUATION
EVCE	-END VERTICAL CURVE ELEVATION
EVCS	-END VERTICAL CURVE STATION
EW	-EACH WAY
EWEF	-EACH WAY EACH FACE
EWS	-EYE WASH STATION
EX	-EXISTING
EXIST	-EXISTING
EXT	-EXTERIOR
F	
F	-FAHRENHEIT
FA	-FOUL AIR
FAB	-FABRICATE(D)
	-FABRICATION
FAI	-FRESH AIR INTAKE
FC	-FAIL CLOSED
FCA	-FLANGE COUPLING ADAPTER
FCO	-FLOOR CLEAN OUT
FCR	-FINE CRUSHED ROCK
FCV	-FLOW CONTROL VALVE
FD	-FLOOR DRAIN
	-FOUND
FE	-FIRE EXTINGUISHER
	-FLOW ELEMENT
	-FINAL EFFLUENT
FF	-FINISH FLOOR
	-FLAT FACE
FG	-FINISH GATE
FH	-FIRE HYDRANT
FIN	-FINISH
FIT	-FLOW INDICATOR TOTALIZER
FL	-FLANGE
	-FLOORING
	-FLOW LINE
FLC-	-FLOCCULATOR
FLEX	-FLEXIBLE
FLG	-FLANGE(D)
FLR	-FLOOR
FLT	-FILTER
FM	-FORCE MAIN
FMH	-FLEXIBLE METAL HOSE
FMX	-FLASH MIXER
FND	-FOUNDATION
FO	-FAIL OPEN
	-FIBER OPTICS
FPC	-FLEXIBLE PIPE COUPLING
FPS	-FEET PER SECOND
FRP	-FIBERGLASS REINFORCED PLASTIC
FS	-FAR SIDE
	-FLOW SWITCH
FT	-FEET
	-FOOT
FTG	-FOOTING
FUT	-FUTURE
G	
GA	-GAGE
	-GAUGE
GAL	-GALLON
GALV	-GALVANIZED
GAS	-NATURAL GAS
GB	-GRADE BREAK
GBV	-GLOBE VALVE
GCO	-GROUND CLEAN OUT
GDR	-GRINDER
GEN	-GENERAL
GFD	-FLUX UNITS
GFI	-GROUND FAULT INTERRUPTER
GI	-GALVANIZED IRON
	-GRAVITY IRRIGATION
GL	-GLASS
	-GLASS LINED
GND	-GROUND
GPD	-GALLONS PER DAY
GPM	-GALLONS PER MINUTE
GRD	-GRADE
GRDR	-GRINDER
GRT	-GROUT
GRTG	-GRATING
GSKT	-GASKET
GSN	-GENERAL STRUCTURAL NOTES
GTS	-GRAVITY THICKENER SUPERNATANT
GV	-GATE VALVE
GYP	-GYPSUM
H	
H	-HORIZONTAL
H/A	-HAND AUTO
H/B	-HOSE BIBB
HD	-HEAVY DUTY
HDPE	-HIGH DENSITY POLYETHYLENE
HDR	-HEADER
HEX	-HEXAGONAL
HG	-MERCURY
HH	-HANDHOLE
HM	-HOLLOW METAL
HOA	-HAND-OFF-AUTO
HOR	-HORIZONTAL
HP	-HORSEPOWER
	-HIGH PRESSURE
HR	-HOUR
HRT	-HYDRAULIC RETENTION TIME
HSA	-HEADED STUD ANCHOR
HSS	-HOLLOW STRUCTURAL SECTION
HT	-HEIGHT
HTR	-HEATER
H/V	-HEATING AND VENTILATING
HV	-HAND VALVE
HVAC	-HEATING AND AIR CONDITIONING
HWL	-HIGH WATER LEVEL
HWP	-HOT WATER PUMP
HWR	-HOT WATER RETURN
HWS	-HOT WATER SUPPLY
HYD	-HYDRAULIC
HYDT	-HYDRANT
HZ	-HERTZ (CYCLES PER SECOND)
I	
I	-INFLUENT
IC	-INTERMEDIATE CLARIFIER(S)
ICE	-INTERMEDIATE CLARIFIER EFFLUENT
ICI	-INTERMEDIATE CLARIFIER INFLUENT
ICS	-INTERMEDIATE CLARIFIER SLUDGE
ID	-INSIDE DIAMETER
IE	-INVERT ELEVATION
IF	-INSIDE FACE
IN	-INCH
INFO	-INFORMATION
INT	-INTERIOR
	-INTERSECTION
INV	-INVERT
I/O	-INPUT/OUTPUT
IRR	-IRRIGATION
IS	-INERT SOLIDS
ISPWC	-IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION
IT	-INSTRUMENT TAP
J	
JB	-JUNCTION BOX
JCT	-JUNCTION
JST	-JOIST
JT	-JOINT
	-JOINT UTILITY TRENCH
K	
K	-KIP (1,000 POUNDS)
	-CURVE K VALUE
KV	-KILOVOLT
KVA	-KILOVOLT AMPERE
KW	-KILOWATT
KWH	-KILOWATT HOUR
L	
LAM	-LAMINATED
LB	-POUND
LBS/DAY	-POUNDS PER DAY
LEV	-LEVEL
LF	-LINEAL FOOT
LG	-LONG
LH	-LEFT HAND
LIT	-LEVEL INDICATOR TRANSDUCER
LLH	-LONG LEG HORIZONTAL
LLV	-LONG LEG VERTICAL
LP	-LOW PRESSURE
LS	-LIMIT SWITCH
LSH	-LEVEL SWITCH HIGH
LSL	-LEVEL SWITCH LOW
LSLL	-LEVEL SWITCH LOW LOW
LV	-LOW VOLTAGE
LVC	-LENGTH VERTICAL CURVE
LVR	-LOUVER
LWL	-LOW WATER LEVEL
LWR	-LOWER
LLH	-LONG LEG HORIZONTAL
LLV	-LONG LEG VERTICAL
M	
M	-METER
	-MALE (PIPE THREAD)
	-MOTOR
MA	-MILLIAMPERE
MAG	-MAGNETIC
MAN	-MANUAL
MAS	-MEMBRANE AIR SCOUR
MAT'L	-MATERIAL
MAX	-MAXIMUM
MBR	-MEMBRANE BIO-REACTOR
	-MEMBER
MCC	-MOTOR CONTROL CENTER
MCU	-MASTER CONTROL UNIT
MD	-MOTORIZED DAMPER
MDS	-MESOPHILIC DIGESTED SLUDGE
ME	-MISCELLANEOUS MECHANICAL EQUIPMENT
MECH	-MECHANICAL
MFR	-MANUFACTURER
MG	-MILLION GALLONS
MGD	-MILLION GALLONS PER DAY
MGL	-MILLIGRAM PER LITER
MGR	-MANAGER
MH	-MANHOLE
MHHW	-MEAN HIGH HIGH WATER
MID	-MIDDLE
MIN	-MINIMUM
	-MINUTE
MISC	-MISCELLANEOUS
MJ	-MECHANICAL JOINT
ML	-MIXED LIQUOR
	-MILLILITER
MLLW	-MEAN LOWER LOW WATER
MLW	-MEAN LOW WATER
MM	-MILLIMETER
MO	-MOTOR OPERATOR
MPH	-MILES PER HOUR
MTR	-MOTOR
MV	-MUD VALVE
	-MILLIVOLT
MX	-MIXER
N	
(N)	-NEW
N	-NORTH
NC	-NORMALLY CLOSED
NaOH	-SODIUM HYDROXIDE
NE	-NORTHEAST
NEG	-NEGATIVE
NEMA	-NATIONAL ELECTRICAL MANUFACTURERS
NG	-NATURAL GAS
NIC	-NOT IN CONTRACT
NO	-NORMALLY OPEN
NOM	-NOMINAL
NPS	-NOMINAL PIPE SIZE
NPSH	-NET POSITIVE SUCTION HEAD
NPT	-NATIONAL PIPE THREAD
NTS	-NOT TO SCALE
NTU	-NEPHELOMETRIC TURBIDITY UNITS
NU	-NOT USED
NW	-NORTHWEST
O	
OAI	-OUTSIDE AIR INTAKE
OC	-ON CENTER
OD	-OUTSIDE DIAMETER
	-OVERALL DIAMETER
OF	-OVERFLOW
	-OUTSIDE FACE
OFF	-OFFSET
OH	-OVERHEAD
OHP	-OVERHEAD POWER
OL	-OVERLOAD
O/O	-OUT TO OUT
OP	-OVERHEAD POWER
ORP	-OXIDATION REDUCTION POTENTIAL
OSC	-ODOR SCRUBBER

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NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ABBREVIATIONS

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 3

FIGURE NO. G-003

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GENERAL ABBREVIATIONS

	P
P	-PHOSPHOROUS
	-PUMP
PA	-PROCESS AIR
PAR	-PARALLEL
PC	-PIPE COUPLING
	-PRECAST
	-POINT OF CURVATURE
P/C	-PLAIN CONCRETE (NO REINFORCING STEEL)
PCC	-PLANT CONTROL CENTER
PD	-PLANT DRAIN
PDR	-POND DRAIN
PE	-PRIMARY EFFLUENT
	-PLANT EFFLUENT
	-POLYELECTROLYTE
	-POLYMER
PEN	-PENETRATION
PG	-PRESSURE GAUGE
PH	-HYDROGEN ION CONCENTRATION
PI	-PLANT INFLUENT
	-POINT OF INTERSECTION
	-PRESSURE INDICATOR
	-PRESSURE IRRIGATION
PID	-PROPORTIONAL PLUS INTEGRAL
	PLUS DERIVATIVE CONTROL
PK	-PEAK
P/L	-PROPERTY LINE
PL	-PLATE
PLC	-PROGRAMMABLE LOGIC CONTROLLER
PLE	-PLANT EFFLUENT
PLY	-PLYWOOD
	-POLYMER
PO4	-PHOSPHATE
PP	-POWER POLE
	-UTILITY POLE
PPD	-POUNDS PER DAY
PPH	-POUNDS PER HOUR
PRE	-PRIMARY EFFLUENT
PRMT	-PERMEATE
PRV	-PRESSURE REGULATING
	-PRESSURE RELIEF
	-PRESSURE REDUCING VALVE
PS	-PRESSURE SWITCH
	-PRESSURE SEWER
PSH	-PRESSURE SENSORS
PSIA	-POUNDS PER SQUARE INCH ABSOLUTE
PSI	-POUNDS PER SQUARE INCH
PSIG	-POUNDS PER SQUARE INCH GAUGE
PT	-POINT OF TANGENCY
	-POINT
PV	-PLUG VALVE
	-PROCESS VARIABLE
PVC	-POLYVINYL CHLORIDE
PVI	-POINT OF VERTICAL INTERSECTION
PVT	-PAVEMENT
	Q
QCPL	-QUICK COUPLING
QTY	-QUANTITY
	R
R	-RADIUS
	-RISER
RA	-RETURN AIR
RAS	-RETURN ACTIVATED SLUDGE
RB	-RUBBER WALL BASE
RCP	-REINFORCED CONCRETE PIPE
RCR	-RECORDER
RCY	-RECYCLE
RD	-ROOF DRAIN
	-ROAD
RE:	-REFERENCE
RECP	-RECEPTACLE
RED	-REDUCE(R)
	-REDUCING
REF	-REFERENCE
REG	-REGULATOR
REINF	-REINFORCEMENT(ING)
REL	-RELAY
REQ'D	-REQUIRED
RF	-RAISED FACE
RGS	-RIGID GALVANIZED STEEL
RH	-RIGHT HAND
RI	-RAPID INFILTRATION
RM	-ROOM
RO	-ROUGH OPENING
RPM	-REVOLUTIONS PER MINUTE
RR	-RAILROAD
RS	-RECIRCULATED SLUDGE
RT	-RIGHT
RV	-RELIEF VALVE
R/W	-RIGHT OF WAY
ROW	-RIGHT OF WAY
	S
S	-SOUTH
	-SCUM
	-SINK
	-SECOND
	-SLOPE
SA	-SAMPLE
SB	-SCUM BAFFLE
SCFM	-STANDARD CUBIC FEET PER MINUTE
SCH	-SCHEDULE
SCM	-SCUM
SCR'D	-SCREWED
SD	-SMOKE DETECTOR
	-STORM DRAIN
SDMH	-STORM DRAIN MANHOLE
SDR	-STORM DRAIN
SE	-SECONDARY EFFLUENT
	-SOUTH EAST
SEC	-SECONDARY CLARIFIER EFFLUENT
SECT	-SECTION
SEP	-SEPARATOR
SF	-SQUARE FOOT
SG	-SUPPLY GRILLE
SHT	-SHEET
SHTH'G	-SHEATHING
SIM	-SIMILAR
SO2	-SULFUR DIOXIDE
SOR	-SURFACE OVERFLOW RATE
SPECS	-SPECIFICATIONS
SP	-SPACES
SPC'G	-SPACING
SPL	-SPLICE
SQ	-SQUARE
SRT	-SOLIDS RETENTION TIME
SS	-SANITARY SEWER
	-STAINLESS STEEL
	-SERVICE TANK
	-SUSPENDED SOLIDS
SSMH	-SANITARY SEWER MANHOLE
SST	-STAINLESS STEEL TUBING
ST	-START
	-STREET
STA	-STATION
STD	-STANDARD
STL	-STEEL
STOR	-STORAGE
STRUC	-STRUCTURAL
SV	-SOLENOID VALVE
SVI	-SLUDGE VOLUME INDEX
SW	-SOUTHWEST
	-SOCKETWELD
SYM	-SYMMETRICAL
	T
T	-THERMOSTAT
	-TREAD OF STAIR
	-TANGENT
	-TOP
TB	-TERMINAL BOX
	-TOP AND BOTTOM
TC	-TOP OF CURB
T/D	-TELEPHONE/DATA COMMUNICATIONS
TD	-TIME DELAY RELAY
	-TANK DRAIN
TE	-TERTIARY EFFLUENT
	-TOTALLY ENCLOSED
TEL	-TELEPHONE
TEMP	-TEMPERATURE
	-TEMPORARY
TERM	-TERMINATE
THD'D	-THREADED
THRU	-THROUGH
T&G	-TONGUE AND GROOVE
TK	-TANK
TKN	-TOTAL KJELDAHL NITROGEN
TO	-TO OF
TOC	-TOP OF CONCRETE
TOF	-TOP OF FOOTING/FOUNDATION
TOG	-TOP OF GROUT
TOP	-TOP OF PIPE
TOS	-TOP OF SLAB
TOW	-TOP OF WALL
TP	-TOTAL PHOSPHORUS
TPD	-TONS PER DAY
TR	-TIMING RELAY
TRANS	-TRANSMITTANCE
	-TRANSFORMER
TRM	-TRANSMITTER
TRN	-TRANSDUCER
TS	-TEMPERATURE SWITCH
	-TUBE STEEL
TSS	-TOTAL SUSPENDED SOLIDS
TV	-TELEVISION
TYP	-TYPICAL
	U
UG	-UNDERGROUND
UGP	-UNDERGROUND POWER
UH	-UNIT HEATER
UL	-UNDERWRITERS LABORATORIES
	-ULTIMATE LOAD
UN	-UNION
UNO	-UNLESS NOTED OTHERWISE
U/P	-UTILITY POLE
UPS	-UNINTERRUPTIBLE POWER SUPPLY
UV	-ULTRA VIOLET
UW	-UTILITY WATER (NONPOTABLE)
	V
V	-VALVE
	-VENT
	-VOLTS
	-VAULT
VAC	-VACUUM
	-VOLTS ALTERNATING CURRENT
VAR	-VARIABLE
VB	-VALVE BOX
VCP	-VITRIFIED CLAY PIPE
VCT	-VINYL COMPOSITE TILE
VDC	-VOLTS DIRECT CURRENT
VERT	-VERTICAL
VOL	-VOLUME
VSS	-VOLATILE SUSPENDED SOLIDS
VTC	-VENT TO CEILING
VTR	-VENT THRU ROOF
	W
W	-POTABLE WATER
	-WEST
W/	-WITH
WAS	-WASTE ACTIVATED SLUDGE
WC	-WATER COLUMN
WCO	-WALL CLEAN OUT
WEG	-WALL EXHAUST GRILLE
WER	-WALL EXHAUST REGISTER
WF	-WIDE FLANGE
WG	-WASTE GAS
W/O	-WITHOUT
WOG	-WATER/OIL/GAS WORKING PRESSURE
WPR	-WASHER COMPACTOR
WS	-WATER SURFACE
WSA	-WELDED STUD ANCHOR
WSP	-WELDED STEEL PIPE
WSTP	-WATERSTOP
WT	-WEIGHT
WWF	-WELDED WIRE FABRIC
WWP	-WATER WORKING PRESSURE
	X
XFMR	-POWER TRANSFORMER
XLP	-CROSS LINKED POLYETHYLENE
XP	-EXPLOSION PROOF
	Y
YCO	-YARD CLEANOUT
YD	-YARD
	-YARD DRAIN
YR	-YEAR
	Z
ZS	-POSITION SWITCH
#	-NUMBER
	-POUNDS
&	-AND
@	-AT
Ø	-DIAMETER
	-PHASE
Δ	-ANGLE OF DEFLECTION
℄	-CENTERLINE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ABBREVIATIONS CONTINUED

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1-1/2 Inches

PROJECT NO. 225096-001 | 4

FIGURE NO. G-004

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PIPE FLUID ABBREVIATIONS	
ABBREVIATION	**SERVICE**
W, W1	WATER NO. 1 (POTABLE)
W2	WATER NO. 2 (NONPOTALBE / IRRIGATION)
UW	WATER NO. 3 (PLANT RECYCLE UTILITY WATER)
D-DR	DRAIN
HRWR	HEATING WATER RETURN
HRWS	HEATING WATER SUPPLY
HW	HOT WATER
HWR	HOT WATER RETURN
NG	NATURAL GAS
RAS	RETURN ACTIVATED SLUDGE
SS	SANITARY SEWER (GRAVITY)
WAS	WASTE ACTIVATED SLUDGE
V	VENT

PIPE MATERIALS		
SYSTEM NUMBER	**MATERIAL**	**DETAILS**
1	CAST IRON SOIL PIPE (CISP)	ASTM A74
14	POLYETHYLENE (PE)	AWWA C901; ASTM D3350
29	STEEL	ASTM A53; ERW; GRADE B; BLACK; NO LINING
41	CROSS-LINKED POLYETHYLENE (PEX)	ASTM F876; ASTM F877; ASTM F1807
45	POLYVINYL CHLORIDE (PVC DWV)	ASTM D4396; CLASS 11432; ASTM 1784; ASTM D2665; NSF 14; SCH 40
46	CHLORINATED POLYVINYL CHLORIDE (CPVC)	ASTM D1784, ASTM F441, ASTM D2846; NSF 14; SCH 80

PIPE TESTING SCHEDULE				
ID	**SPECIFICATION**	**TEST MEDIUM**	**TEST PRESSURE - PSI**	**LEAKAGE ALLOWANCE**
B	22 00 00	WATER	4.3	0
C	33 01 12	WATER	150	0
D	33 01 12	WATER	100	0
K	33 52 16	AIR, CO2, OR NITROGEN	10	0

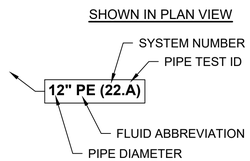
GENERAL SHEET NOTES

1. FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.
2. FOR ACCEPTABLE PIPE USAGES, SEE PIPING SECTION OF SPECIFICATIONS.
3. FOR PIPE FITTINGS, SEE PIPING SECTION OF SPECIFICATIONS.
4. ALL MANHOLES SHALL BE TESTED IN ACCORDANCE WITH SECTION 33 05 62.
5. EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS SHALL BE SELECTED BY OWNER.
6. ALL CHEMICAL LINES PLACED OVERHEAD SHALL BE DOUBLE WALL CONTAINED TO SATISFY 2018 IBC REQUIREMENTS.
7. EXPOSED PIPING SHALL BE INSULATED WHERE SHOWN. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
8. DUCTILE IRON PIPE: POLYETHYLENE SLEEVE REQUIRED WHERE BURIED.
9. COPPER PIPE: SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED.
10. ANY DEVIATION FROM THE PIPING MATERIALS OR FIELD TEST PROCEDURES WILL BE NOTED IN THE SPECIFICATIONS OR ON THE DRAWINGS.

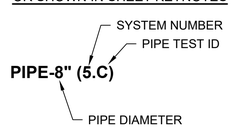
TYPICAL PIPE DESIGNATION

NOTE: INSTALL ALL PIPES WHERE THE FOLLOWING DESIGNATION ARE INDICATED:

SHOWN IN PLAN VIEW



OR SHOWN IN SHEET KEYNOTES



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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

PIPING SCHEDULE

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 5

FIGURE NO. G-005

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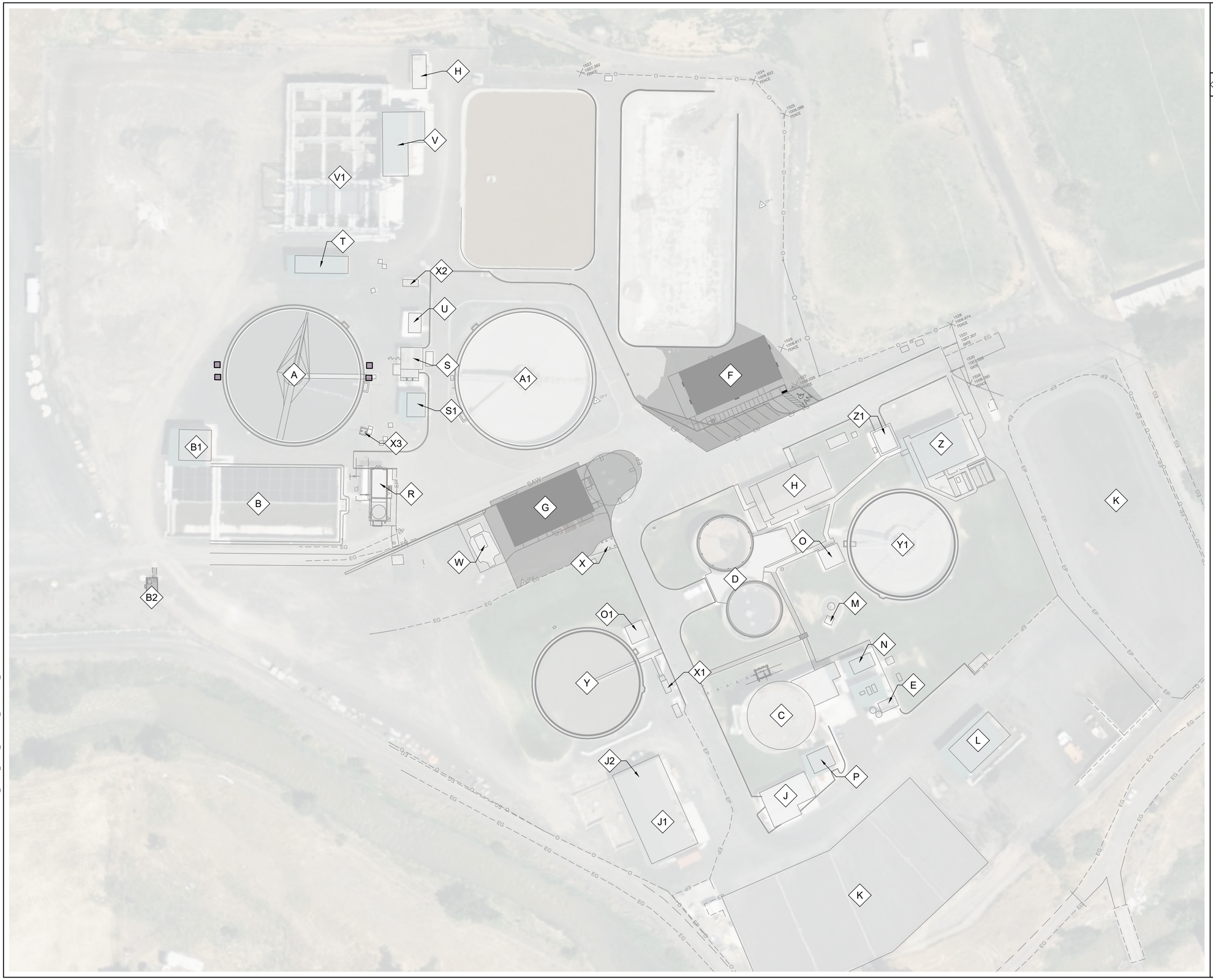

STRUCTURE DESIGNATORS

A	SECONDARY CLARIFIER WEST (M)
A1	SECONDARY CLARIFIER EAST (E)
B	CHLORINE CONTACT CHAMBER (E)
B1	DECHLORINATION BUILDING (E)
B2	SAMPLER BUILDING (M)
C	PRIMARY DIGESTER (E)
D	SECONDARY DIGESTER (E)
E	COGENERATION SYSTEM (E)
F	NEW ADMINISTRATION BUILDING (N)
G	STORAGE BUILDING (N)
H	EXISTING ADMINISTRATION BUILDING (E)
I	LAWN EQUIPMENT SHED (E)
I1	CHEMICAL STORAGE BUILDING (E)
J	WELDING AND PARTS SHOP (E)
J1	MAIN SHOP (E)
J2	MACHINE SHED (E)
K	SLUDGE DRYING BEDS (E)
L	DEWATERING BUILDING (E)
M	GAS FLARE (E)
N	SOLIDS ELECTRICAL BUILDING (E)
O	PRIMARY SLUDGE PUMP EAST (E)
O1	PRIMARY SLUDGE PUMP WEST (E)
P	PRIMARY MIXING BUILDING (E)
Q	OUTFALL (E)
R	DISINFECTION BUILDING (E)
S	RAS PUMP STATION (E)
S1	UNDERGROUND PUMP STATION (WAS) (E)
T	MBR BUILDING (E)
U	SECONDARY PROCESS STORAGE BUILDING (E)
V	SECONDARY PROCESS BUILDING (E)
V1	AERATION BASIN (E)
W	IN-PLANT PUMP STATION (E)
X	I/O JUNCTION BOX (E)
X1	COMBINE EFFLUENT JUNCTION BOX (E)
X2	CONTROL JUNCTION BOX (E)
X3	EFFLUENT JUNCTION BOX (E)
Y	PRIMARY CLARIFIER WEST (E)
Y1	PRIMARY CLARIFIER EAST (E)
Z	HEADWORKS (E)
Z1	HEADWORKS ELECTRICAL BUILDING (E)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

PROJECT OVERVIEW - OPS BUILDINGS

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 6

FIGURE NO. G-006

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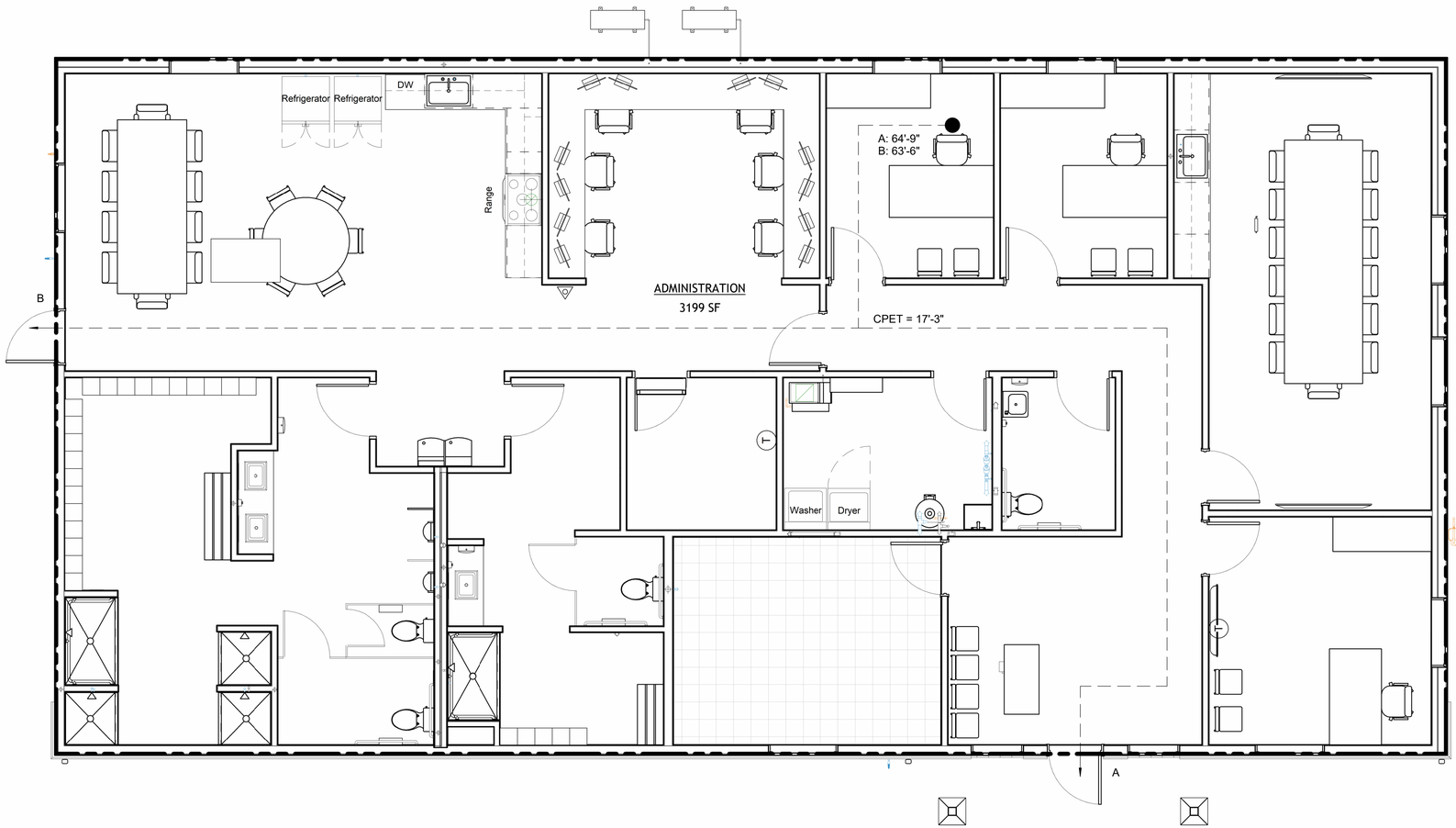

A1 CODE ANALYSIS PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

CODE REVIEW

CODE ANALYSIS 2025 OSSC

OCCUPANCY USE GROUP: TABLE 306.3	B
TYPE OF CONSTRUCTION: CHAPTER 6	V-B

GENERAL BUILDING HEIGHTS & AREAS

ALLOWED:	ACTUAL:
HEIGHT = 40'-0" TABLE 504.3	HEIGHT = 16'-2"
STORIES = 2 TABLE 504.4	STORIES = 1
AREA = 9,000 S.F. TABLE 506.2	AREA = 3,199 S.F.
FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	0 HOURS

OCCUPANT LOAD
OSSC 1004.5

FUNCTION	BUSINESS AREA - OFFICE
LOAD FACTOR/OCCUPANT LOAD	150 GROSS/ 21.3 OCCUPANTS
TOTAL:	21.3 OR 22 OCCUPANTS

EGRESS WIDTH REQUIRED = 22 x 0.2 = 4.4 INCHES
OSSC 1005.3.2

EXITS REQUIRED/ PROVIDED: 2 REQUIRED/ 2 PROVIDED

MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200'
MULTIPLE EXITS, W/O SPRINKLERS
IBC TABLE 1017.2

ACCESSIBILITY:
COMPLIANCE WITH ANSI A117.1 & OSSC

HAZARDOUS MATERIALS:
PER 307.1, NO HAZARDOUS MATERIALS EXCEEDING QUANTITIES LISTED

FIRE SUPPRESSION SYSTEM:
NONE

LEGEND

#	ROOM NUMBER, RE: SCHEDULE C1/A-601-F
△	FIRE EXTINGUISHER, RE: SPECIFICATIONS
X:Y	TRAVEL DISTANCE (X) IN FEET TO EXIT (Y)
	AREA BOUNDARY

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PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - CODE ANALYSIS PLAN

DRAWN: -- CHECK: --

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 PAGE 7

SHEET NO. G-100-F

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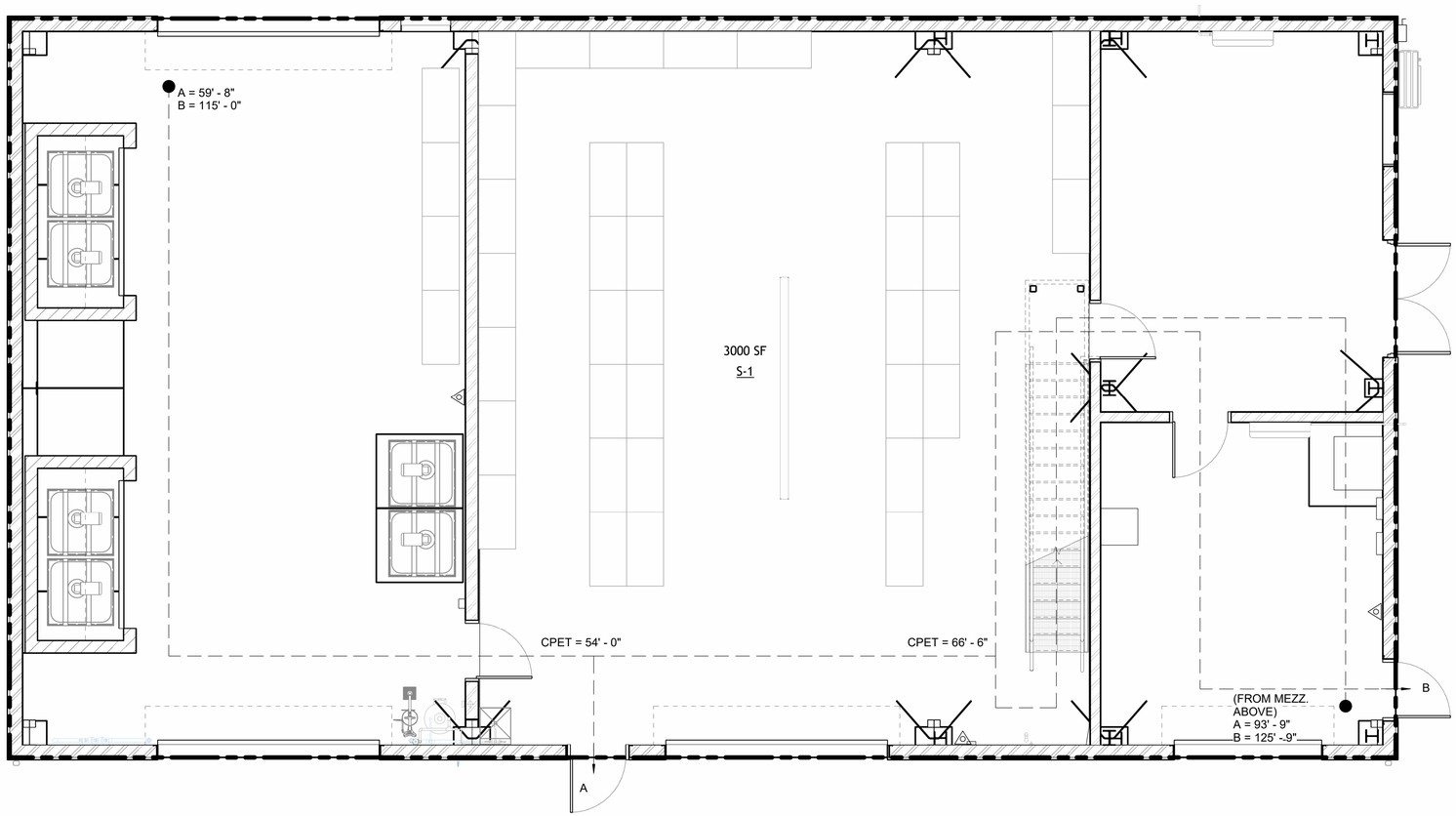

A1 CODE ANALYSIS PLAN
1/4" = 1'-0"

1/4" 0 2' 4' 8'

CODE REVIEW

CODE ANALYSIS 2025 OSSC

OCCUPANCY USE GROUP: TABLE 306.3	S-1
TYPE OF CONSTRUCTION: CHAPTER 6	V-B

GENERAL BUILDING HEIGHTS & AREAS

ALLOWED:	ACTUAL:
HEIGHT = 40'-0" TABLE 504.3	HEIGHT = 24' - 8 1/2"
STORIES = 1 TABLE 504.4	STORIES = 1
AREA = 9,000 S.F. TABLE 506.2	AREA = 3,000 S.F.
FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:	0 HOURS

OCCUPANT LOAD
OSSC 1004.5

FUNCTION	WAREHOUSE (STORAGE)
LOAD FACTOR/OCCUPANT LOAD	500 GROSS / 6 OCCUPANTS
TOTAL:	6 OCCUPANTS

EGRESS WIDTH REQUIRED = 6 x 0.2 = 1.2 INCHES
OSSC 1005.3.2

EXITS REQUIRED/ PROVIDED: 2 REQUIRED/ 3 PROVIDED

MAXIMUM ALLOWABLE TRAVEL DISTANCE: 200'
MULTIPLE EXITS, W/O SPRINKLERS
OSSC TABLE 1017.2

ACCESSIBILITY:
ACCESSIBILITY COMPLIANCE REQUIRED

HAZARDOUS MATERIALS:
PER 307.1, NO HAZARDOUS MATERIALS EXCEEDING QUANTITIES LISTED

FIRE SUPPRESSION SYSTEM:
NONE

LEGEND

#	ROOM NUMBER, RE: SCHEDULE C1/A-601
△	FIRE EXTINGUISHER, RE: SPECIFICATIONS
X:Y	TRAVEL DISTANCE (X) IN FEET TO EXIT (Y)
— — —	BUILDING AREA BOUNDARY

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PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - CODE ANALYSIS PLAN

DRAWN: BPB | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 8

SHEET NO. G-100-G

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BASIS OF DESIGN - ALL STRUCTURES - UNO

1. BUILDING CODE: 2025 OSSC
2. BUILDING RISK CATEGORY: IV
3. GRAVITY DESIGN
   A. SNOW LOADS
      a. GROUND SNOW LOAD: Pg 42 PSF
4. WIND DESIGN
   A. BASIC WIND SPEED: 113 MPH
   B. EXPOSURE CATEGORY: C
   C. INTERNAL PRESSURE COEFFICIENT: GCpi +- 0.18
   D. COMPONENT AND CLADDING WIND PRESSURES: SEE PLANS
5. SEISMIC DESIGN
   A. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
   B. IMPORTANCE FACTOR: Ie 1.25
   C. MAPPED SPECTRAL RESPONSE ACCELERATION: Ss & S1: 0.392g & 0.122g
   D. SITE CLASS: C
   E. DESIGN SPECTRAL RESPONSE COEFFICIENT: Sds & Sd1: 0.314g & 0.137g
   F. SEISMIC DESIGN CATEGORY: C
6. GEOTECHNICAL
   A. GEOTECHNICAL REPORT: SHANNON & WILSON REPORT NO. 24-1-03406-002
   B. NET ALLOWABLE BEARING PRESSURE: 3000 PSF
   C. MINIMUM FROST COVER: 24 INCHES

BASIS OF DESIGN - STRUCTURE (F) - ADMINISTRATION BUILDING (NEW)

7. GRAVITY DESIGN
   A. DEAD LOADS
      a. ROOF: 24 PSF (INCLUDES 7PSF FOR FUTURE SOLAR PANELS)
      b. FLOOR: 20 PSF
   B. LIVE LOADS
      a. ROOF: 20 PSF
      b. FLOOR: 80 PSF
   C. SNOW LOADS
      a. THERMAL FACTOR: Ct 1.128
      b. ROOF SNOW LOAD: Pf 40 PSF
      c. EXPOSURE FACTOR: Ce 1.0
      d. ROOF SLOPE FACTOR: Cs 1.0
8. SEISMIC DESIGN
   A. SEISMIC RESPONSE COEFFICIENT: Cs 0.072
   B. SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
   C. RESPONSE MODIFICATION FACTOR: R 6.5
   D. OVERSTRENGTH FACTOR: Ω 2.5
   E. DEFLECTION AMPLIFICATION FACTOR: Cd 4
   F. DESIGN BASE SHEAR: 2.0 K

BASIS OF DESIGN - STRUCTURE (G) - STORAGE BUILDING

9. DEAD LOADS
   A. ROOF: PER PMB MANUFACTURER
   B. COLLATERAL ROOF: 12 PSF (INCLUDES 7PSF FOR FUTURE SOLAR PANELS)
   C. COLLATERAL MEZZANINE DEAD AND LIVE LOADS; RE: S-103-G
10. WIND DESIGN
    A. ELEVATION: 1007.5 FT
11. FOUNDATION
    METAL BUILDING PIERS AND FOUNDATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY AND MUST BE REVIEWED BY THE EOR WITH THE APPROVED METAL BUILDING PLANS PRIOR TO CONSTRUCTION. ANY REQUIRED REVISIONS TO THE METAL BUILDING PIERS AND FOOTINGS SHALL BE AT NO COST TO THE OWNER.

GENERAL

1. SCOPE
   A. THE GENERAL NOTES AND STANDARD DETAILS APPLY TO THE ENTIRE PROJECT, UNO.
2. THE GENERAL CONTRACTOR SHALL COORDINATE:
   A. AND VERIFY LOCATIONS, WEIGHTS AND SIZES OF MECHANICAL UNITS, EQUIPMENT, ETC, PRIOR TO THE FABRICATION AND ERECTING OF STRUCTURAL SUPPORTING ELEMENTS. REPORT SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE DRAWINGS TO THE ARCH/EOR FOR REVIEW. ADDITIONAL FRAMING MAY BE REQUIRED.
   B. ROOF, FLOOR AND WALL OPENINGS REQUIRED FOR MECHANICAL, ETC., WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCH/EOR.
   C. DOORS, WINDOWS, WALLS, ELEVATIONS, SLOPES, STAIRS, CURBS, DRAINS, RECESSES, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES, CHAMFERS, KERFS, PADS, LANDSCAPE WALLS, TRENCHES IN SLABS, ETC, WITH THE STRUCTURAL WORK.
   D. INSPECTIONS, TESTING AND STRUCTURAL OBSERVATIONS AS WORK PROCEEDS. NOTIFY THE EOR 48 HOURS PRIOR TO ANY REQUIRED STRUCTURAL OBSERVATIONS.
3. CONSTRUCTION SEQUENCE, SHORING AND BRACING REQUIREMENTS:
   A. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE METHOD, MEANS AND SEQUENCE OF STRUCTURAL ERECTION, UNO. HE SHALL PROVIDE ADEQUATE TEMPORARY SHORING OR BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.
4. OMISSIONS, CONFLICTS AND DISCREPANCIES:
   A. RESOLVE OMISSIONS, CONFLICTS AND DISCREPANCIES BETWEEN THE ELEMENTS OF THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH WORK INVOLVED.

DEFERRED SUBMITTALS

1. CONTRACTOR TO PROVIDE DEFERRED SUBMITTALS PER SPECIFICATIONS AND PLANS FOR THE FOLLOWING:
   A. PRE-ENGINEERED METAL BUILDING
   B. PRE-FABRICATED METAL PLATE WOOD TRUSSES
   C. STEEL/FRP GRATING
   D. SOLATUBE
   E. PRE-ENGINEERED WOOD I-JOISTS

REINFORCING STEEL

1. REINFORCING STEEL SHALL COMPLY WITH THE FOLLOWING:
   A. CRSI "MANUAL OF STANDARD PRACTICE".
   B. ACI "DETAILING MANUAL", ACI 315 (OR SP-66).
   C. ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
   D. ASTM A615, GRADE 60 FOR NEW STOCK DEFORMED REBAR AND ASTM A706, GRADE 60 DEFORMED WELDABLE REBAR
2. SUBMITTALS
   A. SUBMIT SHOP DRAWINGS TO THE EOR FOR REVIEW. DRAWINGS SHOULD INCLUDE FABRICATIONS, BENDING, PLACEMENT PLANES AND ELEVATIONS, BAR SIZES, LENGTHS, MATERIAL, GRADE, BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS, TIE SPACING, HOOP SPACING, AND SUPPORTS FOR CONCRETE REINFORCEMENT
   B. REQUESTS FOR ALTERATIONS OR LAP SPLICES MADE AT LOCATIONS OTHER THAN THOSE SPECIFICALLY INDICATED ON THE DRAWINGS MUST BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO CONSTRUCTION OF COMPONENT WHERE MATERIAL WILL BE USED.
   C. INSPECTION: ALL REINFORCING BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.
3. CONSTRUCTION/OTHER:
   A. DETAIL, BOLSTER, AND SUPPORT ALL REBAR. TIE BARS SECURELY WITH PROPER CLEARANCES BEFORE PLACING CONCRETE.
   B. USE REBAR FREE OF LOOSE FLAKY RUST, SCALE, GREASE, OIL, DIRT, AND OTHER MATERIALS WHICH AFFECT OR IMPAIR BOND.
   C. PLACE REBAR CONTINUOUS IN WALLS, BEAMS, COLUMNS, SLABS, FOOTINGS, ETC.
   D. MINIMUM LAP SPLICES (INCHES): (MINIMUM LAP 24")

	#3	#4	#5	#6	#7	#8	#9	#10	#11
CONCRETE:	24"	24"	24"	33"	53"	66"	80"	96"	113"

   E. MAKE COLD BENDS. DO NOT USE HEAT. BENDS IN THE FABRICATOR'S SHOP, UNO. DO NOT UNBEND OR REBEND A PREVIOUSLY BENT BAR.
   F. MINIMUM CONCRETE COVER: (SECURELY POSITION AND ANCHOR REBAR PRIOR TO POUR)
      a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
      b. EXPOSED TO EARTH OR WEATHER:
         b.1. #6 AND LARGER 2"
         b.2. #5 AND SMALLER 1-1/2"
      c. NOT EXPOSED TO EARTH OR WEATHER:
         c.1. SLABS, WALLS AND JOIST, #11 & SMALLER 3/4"
         c.2. BEAMS, COLUMNS: MAIN REINFORCING OR TIES 1-1/2"
      d. SLABS-ON-GRADE (SOG) CENTER OF SLAB, UNO
   G. IN MASONRY, PLACE AND POSITION REBAR ACCORDING TO THE STRUCTURAL DRAWINGS WHILE LAYING UNITS. SECURE AGAINST DISPLACEMENT AT INTERVALS NOT TO EXCEED THE FOLLOWING:
      a. #4 AND SMALLER 6'-0"
      b. #5 AND LARGER 10'-0"
   H. DO NOT WELD REINFORCING UNLESS SPECIFICALLY NOTED. USE E-90XX ELECTRODES AND ASTM A706 REINFORCING. COMPLY WITH AWS REQUIREMENTS.
   I. USE EPOXY COATED REINFORCING WHEN SPECIFICALLY NOTED. INCREASE LAP SPLICE LENGTHS BY A FACTOR OF 1.2.
   J. DOWELS: REINFORCING DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME NUMBER, SIZE, SPACING AND GRADE AS THE SPECIFIED VERTICAL REINFORCING, UNO.
   K. WIRE FABRIC: WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF, WHICHEVER IS GREATER.
   L. BARS SHALL BE SECURELY TIED IN PLACE WITH #16 DOUBLE-ANNEALED IRON WIRE. CONTRACTOR SHALL COORDINATE REINFORCING STEEL PLACEMENT DETAILS AND PROVIDE TEMPLATES FOR PLACING STEEL IN CONGESTED AREAS, AS NECESSARY.
   M. METAL CHAIRS, BOLSTER BAR SUPPORTS, AND SPACERS WHICH TOUCH FORM WORK SHALL BE PLASTIC-COATED.

GROUT AND CONCRETE FILL

1. GROUT AND CONCRETE FILL PLACED ON TOP OF CHANNELS. LAUNDERS AND TANK FLOORS SHALL BE CAST-IN-PLACE CONCRETE.
2. MAXIMUM SIZE AGGREGATE OF GROUT AND CONCRETE FILL SHALL BE 3/4 INCH.
3. COMPRESSIVE STRENGTH OF GROUT AND CONCRETE FILL SHALL BE 3000 PSI AT 28 DAYS.
4. GROUT AND CONCRETE FILL CONCRETE MIX SHALL CONTAIN 1.5 POUNDS OF POLYPROPYLENE MICRO FIBER PER CUBIC YARD OF CONCRETE.

CONCRETE

1. CODES AND STANDARDS. COMPLY WITH THE FOLLOWING CODES:
   A. ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
   B. ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
   C. ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORM WORK".
2. MATERIALS SHALL CONFORM TO THE FOLLOWING:
   A. CEMENT; ASTM C150, TYPE II, OR ASTM C595 TYPE IL (MS), PORTLAND CEMENT.
   B. HARD ROCK AGGREGATES: ASTM C33
      LIGHTWEIGHT AGGREGATES: ASTM C330
   C. WATER SHALL BE POTABLE.
   D. AIR ENTRAINMENT: ASTM C260
   E. FLY ASH: ASTM C618
   F. CALCIUM CHLORIDE SHALL NOT BE USED.
3. MIX DESIGNS:
   A. SEE SPECIFICATION 03 30 00 FOR ADDITIONAL REQUIREMENTS.
   B. SUBMIT MIX DESIGNS TO THE EOR FOR REVIEW. ALL MIX DESIGNS SHALL BE VERIFIED BY A QUALIFIED TESTING LABORATORY AND SEALED BY A CIVIL ENGINEER LICENSED IN THE APPROPRIATE STATE.
   C. PLACE ONLY ONE TYPE OF CONCRETE AT ANY GIVEN TIME.
   D. THE MAXIMUM SLUMP SHALL BE 4" W/O PLASTICIZER ADDED.
   E. USE PEA GRAVEL AND/OR PLASTICIZER IN CONGESTED AREAS.
   F. LIMIT FLY ASH TO 25% OF THE TOTAL CEMENT.
   G. ALL CONCRETE TO BE NORMAL WEIGHT AND SHALL CONFORM TO EXPOSURE CATEGORY CLASSES LISTED BELOW PER ACI 318 CHAPTER 19. AND FOR ENVIRONMENTAL STRUCTURES PER ACI 350 CHAPTER 4.
   H. CONCRETE MIXES SHALL CONFORM TO THE FOLLOWING:

TYPICAL REQUIRED CONCRETE STRENGTHS		EXPOSURE CATEGORY CLASSES (ACI 318)				
TYPE OF CONCRETE MEMBER:	28 DAY STRENGTH (PSI)	FREEZE THAW	SULFATE EXPOSURE	WATER CONTACT	CORROSION PROTECTION	MAX. AGG. SIZE
BUILDING STEM WALLS, FOOTINGS, CONTAINMENT WALLS & MAT SLABS	4500	F2	S0	W0	C0	3/4"
INTERIOR SLABS ON GRADE & MEZZANINE TOPPING SLAB	4000	F0	S0	W0	C0	3/4"

   I. MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE BUILDING CODE PROPORTIONS OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE, WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. ALL CONCRETE SHALL HAVE AN ACCEPTABLE WATER-REDUCING ADMIXTURE ADDED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
   J. W/C RATIO SHALL BE BASED ON TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. DO NOT ADD WATER TO CONCRETE DURING DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT.
4. CONSTRUCTION:
   A. MECHANICALLY VIBRATE CONCRETE DURING PLACEMENT.
   B. PRIOR TO PLACING CONCRETE, CHECK WITH TRADES TO ENSURE PROPER PLACEMENT OF OPENINGS, BLOCK OUTS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, EMBEDS, DOWELS, ETC. PLACE ANCHOR BOLTS AND DOWELS PRIOR TO CASTING CONCRETE, UNO.
   C. FORM CONSTRUCTION JOINTS AND BULKHEADS WITH A KEY WAY. INTENTIONALLY ROUGHEN CONTACT SURFACES (NEW OR EXISTING) AT CONSTRUCTION JOINTS PRIOR TO CASTING ADJACENT POURS, UNO.
   D. ADD ADDITIONAL REINFORCING TO SIDES OF SUSPENDED FLOOR AND WALL OPENINGS, EQUIVALENT TO THE BARS CUT BY THE OPENING WITH HALF TO EACH SIDE OF THE OPENING OR (2) #5 BARS, WHICHEVER IS GREATER, UNO. BARS PARALLEL TO THE PRINCIPAL REINFORCING SHALL RUN FULL LENGTH OF THE SPAN. END BARS IN THE OTHER DIRECTION WITH A STANDARD HOOK. ADD (2) #5 X 5'-0" DIAGONAL BARS AT EVERY CORNER.
   E. DO NOT ALLOW PENETRATIONS THROUGH ANY BEAM, JOIST, COLUMN, PIER, FOOTING, OR JAMB WITHOUT THE EOR'S APPROVAL. OTHERWISE, RE-ROUT THE PENETRATION.
   F. EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS, UNO.
   G. MAINTAIN CONCRETE ABOVE 50°F AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY EOR. FOR STRUCTURAL COMPONENTS THAT ARE USED PRIOR TO DESIGN STRENGTH, IF AVERAGE TEMPERATURE AT THE SITE IS BELOW 50°F, (2) ADDITIONAL TESTING CYLINDERS ARE TO BE PROVIDED AND FIELD CURED.
5. FOOTINGS:
   A. BEAR FOOTINGS ON PROPERLY PREPARED MATERIALS.
   B. NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
   C. CENTER FOOTINGS ON THE WALL OR COLUMN ABOVE, UNO.
   D. BEAR EXTERIOR FOOTINGS BELOW THE EFFECTS OF FROST. SEE BASIS OF DESIGN.
   E. AT THE INTERFACE OF CONCRETE COLD JOINTS SUCH AS WALLS TO FOOTINGS, ROUGHEN FACE OF CONCRETE SURFACE TO 1/4" AMPLITUDE AND CLEAN PRIOR TO PLACEMENT OF NEW CONCRETE. ALSO APPLY BONDING AGENTS WHERE HORIZONTAL STRUCTURAL SURFACES INTERSECT VERTICAL STRUCTURAL ELEMENTS.
   F. STAGGER FOOTING CONSTRUCTION JOINTS FROM WALL CONSTRUCTION JOINTS ABOVE BY AT LEAST 6 FEET.
   G. PROVIDE CORNER BARS IN CONTINUOUS FOOTINGS AT CORNERS AND INTERSECTIONS.
   H. DO NOT ALLOW PENETRATIONS THROUGH ANY CONCRETE FOOTING. AT UTILITIES, STEP THE FOOTING DOWN BELOW THE CONFLICT AND ADD A CONCRETE WALL, PIER OR COLUMN THAT EXTENDS TO THE FOOTING. CONSULT WITH THE EOR.
   I. BACKFILL BEARING SURFACES THAT ARE UNDERMINED DURING CONSTRUCTION WITH A LEAN CONCRETE MIX (1000 PSI MIN.).
6. SLABS ON GRADE (SOG):
   A. SLABS ON GRADE SHALL BE SUPPORTED ON A STRUCTURAL BASE COURSE OVER PREPARED SUBGRADE PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. PROVIDE CONTROL AND CONSTRUCTION JOINTS AS INDICATED ON THE PLANS AND DETAILS..
   B. SEE ARCHITECTURAL AND CIVIL FOR EXTERIOR SLABS ON GRADE, UNO.
   C. SLABS SLOPED TO DRAIN SHALL BE WARPED AROUND PROTRUSIONS (e.g PUMP PAD, HOUSEKEEPING PAD, ETC.) TO PREVENT POOLING, UNO.
7. WALLS:
   A. PLACE VERTICAL REINFORCING IN THE CENTER OF WALLS (UNO) UNLESS EACH FACE (EF) IS SPECIFIED. WHEN EACH FACE IS SPECIFIED, SPLICE THE HORIZONTAL REINFORCING OF EACH CURTAIN AT DIFFERENT LOCATIONS.
   B. DOWEL VERTICAL REINFORCING TO THE STRUCTURE BELOW AND ABOVE WITH THE SAME BAR SIZE AND SPACING, UNO.
   C. TERMINATE HORIZONTAL REINFORCING AT THE ENDS OF WALLS OR OPENINGS WITH A STANDARD HOOK OR CORNER TYPE BARS. PROVIDE CORNER BARS OF THE SIZE AND SPACING AS THE HORIZONTAL REINFORCING AT INTERSECTIONS AND CORNERS.
   D. BUILD PENETRATIONS INTO THE WALL BEFORE POURING CONCRETE. HAVE THE PENETRATIONS REVIEWED BY THE EOR PRIOR TO INSTALLATION UNLESS DETAILED ON THE PLANS.

MASONRY

1. CODES AND STANDARDS:
   A. COMPLY WITH TMS 402/602, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
2. GENERAL
   A. SOLID GROUT ALL CELLS.
   B. PROVIDE MIN COVER FOR REINF.
   C. LAP LENGTHS ARE REQUIRED IN ALL COLUMNS, WALLS, AND BEAMS.
   D. MECHANICALLY SPLICE BARS GREATER THAN #9.
3. WALLS
   A. USE RUNNING BOND. BUILD CORNERS AND INTERSECTIONS AS AN INTEGRAL UNIT.
   B. DOWEL VERTICAL REINFORCING TO THE STRUCTURE BELOW AND ABOVE WITH THE SAME SIZE BAR AND SPACING, UNO.
   C. PLACE VERTICAL REINFORCING AT THE CENTERLINE OF THE WALL UNLESS EACH FACE (EF) IS SPECIFIED, UNO.
   D. PROVIDE VERTICAL REINFORCING IN GROUTED CELLS AT CORNERS AND INTERSECTIONS.
   E. TERMINATE HORIZONTAL REINFORCING AT WALL ENDS OR OPENINGS WITH STANDARD HOOKS OR CORNER TYPE BARS. PROVIDE CORNER BARS OF THE SAME SIZE BAR AND SPACING AS THE HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS.
   F. MAKE HORIZONTAL BARS CONTINUOUS WHERE CONCRETE WALLS, COLUMNS OR PILASTERS INTERFACE. PROVIDE A KEY BETWEEN THE MASONRY AND CONCRETE. GROUT KEY SOLID.
   G. CONSTRUCT BOND BEAMS AT THE TOP COURSE AND AT FLOOR AND ROOF DIAPHRAGM INTERFACES.
   H. CONSTRUCT PENETRATIONS THRU WALLS AS THEY ARE BEING LAID. ADD 2 #5 BARS IN THE GROUTED CELLS ON ALL SIDES OF OPENING WHICH EXCEED 24 INCHES IN EITHER DIRECTION, UNO. EXTEND VERTICAL EDGE BARS THE FULL HEIGHT OF THE WALL BETWEEN FLOOR OR ROOF SUPPORT. EXTEND HORIZONTAL EDGE BARS 24 INCHES BEYOND THE OPENING EDGES.
   I. DO NOT PLACE CONSTRUCTION OR EXPANSION JOINTS IN BEAMS, HEADERS, COLUMNS OR SUPPORTS, UNO.
   J. REINFORCE MASONRY WALLS AS FOLLOWS, UNO:
      a. VERT. REINF. = 1 #5 AT 32" OC.
      b. HORIZ. REINF. = 2 #4 AT 40" OC.
   K. TOOL MORTAR JOINTS CONCAVE. TYP UNO.
   L. REMOVE BACK-TO-BACK FACE SHELLS AT INTERSECTING WALLS. ALT REMOVE FACE SHELLS, COURSE BY COURSE.
   M. ADD LADDER-TYPE JOINT REINF OF (2) #9 WIRES ((3) #9 WIRES W/ VENEER) AT 16" OC HORIZ IN ALL CMU WALLS.
   N. CMU SHALL BE NOMINAL 8" HIGH X 16" LONG X WIDTH SHOWN IN CMU WALL SCHEDULE.
4. BEAMS
   A. USE OPEN ENDED UNITS THROUGHOUT CMU BEAM. BACK TO BACK END SHELLS ARE NOT ALLOWED.
   B. TYPICAL HORIZONTAL REINFORCING DETAILING: SPLICE TOP BARS AT MIDSPAN ONLY. EXTEND TOP BARS A MINIMUM OF 4'-0" BEYOND THE FACE OF THE OPENING OR TERMINATE WITH A STANDARD HOOK, UNO. SPLICE BOTTOM BARS AT SUPPORTS ONLY. EXTEND BOTTOM BARS A MINIMUM OF 2'-0" BEYOND THE FACE OF THE OPENING OR TERMINATE WITH A STANDARD HOOK, UNO.
   C. HOOK STIRRUPS AROUND HORIZONTAL TOP & BOTTOM BARS. PLACE THE FIRST STIRRUP 4" FROM THEIR SUPPORTS.
   D. EXTEND VERTICAL WALL REINFORCING TO BOTTOM OF BEAM IN ADDITION TO BEAM STIRRUPS, PROVIDE STANDARD HOOK AT END.
   E. EXTEND THE END SUPPORTS VERTICAL STEEL THE FULL HEIGHT OF THE WALL (LEVEL TO LEVEL).
   F. DO NOT ALLOW PENETRATIONS THROUGH CMU BEAMS.
5. JAMBS/PIERS
   A. COLUMN TIES:
      a. SINGLE BLOCK COLUMN: PLACE TIES IN THE MORTAR JOINT, UNO.
      b. MULTI WIDE BLOCK COLUMN: PLACE TIES INSIDE OF FACE SHELLS 2" ABOVE OR BELOW MORTAR JOINTS. USE "H" BLOCK AND/OR NOTCH WEB MEMBERS AS REQUIRED.
      c. ADD 2 SETS OF TIES INSIDE THE FACE SHELLS AT THE TOP OF ALL COLUMNS TO ENCLOSE ANCHOR BOLTS, STUDS, OR DBA'S WHEN THEY OCCUR. USE SAME TIE SIZE AS SCHEDULE, UNO.
   B. DOWEL TO STRUCTURE WITH VERTICAL COLUMN BAR REINF.
   C. DO NOT ALLOW PENETRATIONS THRU THE PIERS.
   D. HORIZONTAL WALL STEEL:
      a. AT WALL PIERS, RUN HORIZ STEEL THRU THE PIERS.
      b. AT WALL END OR OPENING PIERS, RUN HORIZ STEEL THRU COLUMN TO THE FACE OF PIER AND TERMINATE WITH A STANDARD HOOK.

POST INSTALLED ADHESIVE ANCHORS

1. ADHESIVE SHALL NOT BE INSTALLED WITHOUT PRIOR APPROVAL OF ENGINEER UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.
2. BARS MUST BE DEFORMED OR THREADED FOR THE FULL EMBEDMENT DEPTH IN ADHESIVE.
3. OVER-DRILL BAR DIAMETER AS INDICATED BY THE ADHESIVE MANUFACTURER AND TO THE DEPTH INDICATED ON THE STRUCTURAL DRAWINGS.
4. CLEAN HOLE PER MANUFACTURER REQUIREMENTS.
5. ANY DIRT, RUST, AND OIL ON THE BARS SHALL BE REMOVED.
6. DURING THE ADHESIVE MIXING AND APPLICATION PROCESS, INSTALL IN STRICT ACCORDANCE WITH ICC REPORT AND THE ADHESIVE MANUFACTURER'S SPECIFICATIONS EXACTLY.
7. VERTICAL HOLES TO BE FILLED FROM THE BOTTOM ARE TO USE AN EPOXY GEL.
8. THE FOLLOWING ADHESIVE SYSTEMS ARE ACCEPTABLE FOR USE IN CRACKED AND SEISMIC CONCRETE APPLICATIONS:
   A. SIMPSON SET-3G EPOXY
   B. POWERS PURE 110+
   C. SIMPSON AT-3G EPOXY
   D. HILTI HIT-RE 500 V3
   E. POWERS AC100+GOLD (COLD WEATHER)
9. THREADED ANCHOR RODS SHALL BE TYPE 316 STAINLESS STEEL, UNO.
10. USE OF ANY OTHER ADHESIVE IN A SEISMIC / CRACKED CONCRETE LOCATION WILL ONLY BE CONSIDERED WITH AN APPROVED THIRD-PARTY EVALUATION REPORT THAT INCLUDES RECOGNITION OF EARTHQUAKE RESISTANCE IN ACCORDANCE WITH THE CURRENT OSSC.

POST INSTALLED MECHANICAL ANCHORS

1. ALL MECHANICAL ANCHORS TO BE STAINLESS STEEL, UNO.
2. MECHANICAL ANCHORS SHALL NOT BE INSTALLED WITHOUT PRIOR APPROVAL OF ENGINEER UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.
3. OVER-DRILL AS INDICATED BY THE ANCHOR MANUFACTURER, AND TO THE DEPTH INDICATED ON THE STRUCTURAL DRAWINGS.
4. CLEAN HOLE PER MANUFACTURER REQUIREMENTS.
5. THE FOLLOWING EXPANSION TYPE ANCHORS ARE STRUCTURALLY ACCEPTABLE FOR USE IN UNCRACKED, CRACKED, AND SEISMIC CONCRETE APPLICATIONS:
   A. SIMPSON STRONG-BOLT 2 WEDGE ANCHOR
   B. HILTI KWIK BOLT TZ STEEL ANCHORS
   C. POWERS POWER-STUD+ SDI
6. THE FOLLOWING EXPANSION TYPE ANCHORS ARE STRUCTURALLY ACCEPTABLE FOR USE IN FULLY GROUTED MASONRY:
   A. HILTI KWIK BOLT 3
   B. POWERS POWER-STUD+
7. THE FOLLOWING SCREW TYPE ANCHORS ARE STRUCTURALLY ACCEPTABLE FOR USE IN UNCRACKED, CRACKED, AND SEISMIC CONCRETE APPLICATIONS:
   A. SIMPSON TITEN HD ANCHORS
   B. HILTI HUS-EZ
   C. ITW REDHEAD TAPCON
   D. POWERS WEDGE BOLT+
8. INSTALLATION AND INSPECTION OF POST INSTALLED ANCHORS SHALL BE PERFORMED AS REQUIRED BY ICC REPORTS AND MANUFACTURER'S INSTRUCTIONS.

KELLER ASSOCIATES
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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 79041PE
Digitally Signed 2026.06.01 11:54:49-08'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

GENERAL STRUCTURAL NOTES

DRAWN: LDL CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

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STRUCTURAL STEEL

1. CODES AND STANDARDS: COMPLY WITH:
   A. AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS & COMMENTARY".
   B. AISC "CODE OF STANDARD PRACTICE" 15TH ED. EXCLUDING SECTIONS 7.5.4, AND 7.13.3.
   C. AWS "STRUCTURAL WELDING CODE", EXCLUDE ITEMS CONFLICTING WITH AISC.
2. MATERIALS: SHALL CONFORM AS FOLLOWS:
   A. WIDE FLANGE SHAPES: ASTM A992, Fy = 50 KSI
   B. OTHER SHAPES AND PLATES: ASTM A36, Fy = 36 KSI
   C. HOLLOW STRUCTURAL SECTIONS: ASTM A500, Fy = 46 KSI GR. B
   D. PIPE: ASTM A53, Fy = 35 KSI GR. B
   E. HIGH STRENGTH BOLTS: ASTM F3125, GR. 325
   F. ANCHOR RODS: ASTM F1554, Fy = 36 KSI
   G. OTHER BOLTS: ASTM A307 OR BETTER
   H. WELDED ANCHORS (STUDS) AND DEFORMED BAR ANCHORS (DBA'S): MANUFACTURER'S SPECIFICATIONS. DO NOT SUBSTITUTE REINFORCING FOR DBA'S
3. CONSTRUCTION:
   A. FABRICATE IN AN APPROVED FABRICATOR'S SHOP.
   B. FABRICATE BEAMS WITH INCIDENTAL CAMBER UP, UNO.
   C. USE 7000 PSI (MINIMUM AT 28-DAY) NON-SHRINK LIQUID GROUT BENEATH BEARING PLATES. PLACE GROUT PER MANUFACTURER'S RECOMMENDATIONS PRIOR TO LOADING MEMBER.
   D. ADD DEFORMED BAR ANCHORS TO STRUCTURAL SECTIONS EMBEDDED IN CONCRETE OR MASONRY, UNO. USE THE SAME SIZE AND SPACING AS THE ADJACENT REINFORCING BARS. MINIMUM LENGTH OF BARS SHALL BE 48 BAR DIAMETERS BUT NOT LESS THAN 24 INCHES.
4. BOLTED CONNECTIONS:
   A. USE 3/4" DIAMETER BOLTS IN STANDARD HOLES (BOLT DIAMETER + 1/16"), UNO.
   B. STEEL-TO-STEEL CONNECTIONS: USE GRADE A325 TYPE "N" CONNECTIONS, UNO.
   C. OTHER CONNECTIONS: USE ASTM A307 BOLTS OR BETTER EXCEPT FOR ANCHOR RODS, UNO.
   D. USE HARDENED WASHERS BENEATH THE TURNED ELEMENT OF THE BOLT OR NUT. USE BEVELED HARDENED WASHERS WHERE THE OUTER FACE OF BOLTED PARTS HAS A SLOPE GREATER THAN ONE IN TWENTY WITH RESPECT TO THE PLANE NORMAL TO THE BOLTS AXIS. AT OVERSIZED HOLES, USE HARDENED WASHERS OR PLATES AT LEAST 5/16" THICK CONFORMING TO ASTM F436.
   E. TIGHTEN BOLTS UNTIL ALL PLIES OF THE JOINT ARE IN FIRM CONTACT. SNUG TIGHT CONDITION, UNO.
   F. ENLARGE BOLT HOLES BY REAMING. DO NOT TORCH CUT.
5. WELDED CONNECTIONS:
   A. PERFORM WELDING AND CUTTING BY AWS CERTIFIED WELDERS IN ACCORDANCE WITH ANSI/AWS D1.1 (LATEST EDITION).
   B. FOR TYPICAL SHOP & FIELD WELDS, USE FILLER METALS WITH NOMINAL 70 KSI TENSILE STRENGTH HAVING:
      a. MATCHING MATERIAL FOR MULTIPLE PASS WELDS.
      b. A DIFFUSIBLE HYDROGEN LIMIT OF H16 OR LESS.
      c. A CVN TOUGHNESS OF 20 FT-LBS AT 0 DEG. F.
   C. FOR ALL CONNECTIONS OF BRACED FRAMES, USE THE SAME CRITERIA AS ABOVE BUT WITH A CVN TOUGHNESS OF 40 FT-LBS AT 70 DEG. F.
   D. USE PRE-QUALIFIED PROCEDURES.
   E. WELD INTERSECTING STEEL SHAPES TOGETHER, WHICH ARE NOT CONNECTED WITH BOLTS, WITH ALL-AROUND FILLET WELDS, UNO.
   F. WELD STUDS AND DBA'S ACCORDING TO MANUFACTURER'S SPECS.
   G. WHEREVER POSSIBLE USE SHOP WELDS. THE CONTRACTOR SHALL COORDINATE FIELD AND SHOP WELDS BETWEEN SHOP FABRICATION AND THE STEEL ERECTOR.
   H. REMOVE SLAG FROM WELDS.

COLD FORMED STEEL FRAMING

1. MATERIALS:
   A. COLD FORMED FRAMING MEMBER TYPES AND SIZES AS SHOWN ON THE PLANS, EXCEPT Z SECTIONS,ARE PER THE "STEEL STUD MANUFACTURER'S ASSOCIATION", (SSMA), CATALOG. FOR 16-GAUGE AND HEAVIER UNITS, FABRICATE METAL FRAMING 50,000 PSI, AND SHALL CONFORM TO ASTM A653, A1011, OR A1008. ALTERNATE EQUIVALENT SECTIONS AS THOSE SHOWN ON THE PLANS. THE ALTERNATE SYSTEM MUST BE APPROVED BY THE EOR BEFORE INSTALLATION.
   B. COLD FORMED Z MEMBERS SHOWN ON THE PLANS ARE PER "AISI NORTH AMERICAN SPECIFICATION," FRAMING COMPONENTS OF STRUCTURAL QUALITY STEEL SHEET WITH A MINIMUM YIELD POINT OF 55,000 PSI, AND SHALL CONFORM TO ASTM A653, A1011 CL-1.ALTERNATE SYSTEMS WILL BE CONSIDERED IF THE CONTRACTOR IDENTIFIES AND PROVIDES EQUIVALENT SECTIONS AS THOSE SHOWN ON THE PLANS. THE ALTERNATE SYSTEM MUST BE APPROVED BY THE EOR BEFORE INSTALLATION.
   C. MAKE SURE ALL MATERIAL IS GALVANIZED. IF REQUIREMENTS CAN NOT BE MET, PRIME AND PAINT CARBON STEEL AND ACCESSORIES WITH RUST INHIBITIVE PAINT MEETING PERFORMANCE REQUIREMENTS OF TT-P-636C.
   MECHANICAL FASTENERS: USE #10 SCREWS MINIMUM FOR ALL EXTERIOR AND JOIST APPLICATIONS, USE #8 SCREWS MINIMUM FOR ALL INTERIOR NON-LOAD BEARING APPLICATIONS CONFORMING TO ASTM C1513.AND SAE J78 CORROSION-RESISTANT-COATED, SELF-DRILLING, SELF-TAPPING STEEL DRILL SCREWS.
2. SHOP DRAWINGS:
   A. PRIOR TO FABRICATION OR FRAMING THE CONTRACTOR SHALL SUBMIT ERECTION DRAWINGS AND DESIGN CALCULATIONS PREPARED BY THE MANUFACTURER OR SUPPLIER FOR REVIEW BY THE STRUCTURAL ENGINEER. CONSTRUCTION SHALL FOLLOW THE APPROVED SHOP DRAWINGS.
3. CONSTRUCTION:
   A. ANCHOR TRACKS TO THE SUPPORTING STRUCTURE WITH .157 INCH DIAMETER POWER DRIVEN FASTENERS AT EACH STUD AT 32" OC, MINIMUM UNO.
   B. BUTT-WELD ABUTTING LENGTHS OF TRACK TO A COMMON STRUCTURAL ELEMENT OR EACH OTHER, UN

SHOT PINS

1. SHOT PIN FASTENERS SHALL NOT BE INSTALLED WITHOUT PRIOR APPROVAL OF ENGINEER UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS.
2. INSTALLATION AND SPECIAL INSPECTION OF FASTENERS SHALL BE PERFORMED AS REQUIRED BY ICC REPORTS AND MANUFACTURER'S INSTRUCTIONS.
3. SHOT PINS SHALL NOT BE USED FOR SEISMIC ANCHORING OR BRACING APPLICATIONS, UNLESS APPROVED BY THE GOVERNING JURISDICTION.
4. SHOT PINS IN POST-TENSION CONCRETE ARE PERMITTED ONLY WHEN THE SUPPLIER CAN SHOW THAT CONCRETE SPALLING WILL NOT OCCUR AND ARE LOCATED TO PRECLUDE DAMAGE TO TENDONS AND TENDON ANCHORAGE.
5. SEE PLANS AND DETAILS FOR SPACING. THE MINIMUM SPACING AND EDGE DISTANCE FOR SHOT PINS IN CONCRETE SHALL BE 3" OC WITH 1" MINIMUM EMBED. UNO.
6. THE FOLLOWING SHOT PINS ARE APPROVED FOR NON-TENSION, SHEAR ONLY USE IN SOLID GROUTED MASONRY:
   A. HILTI LOW VELOCITY X-U 0.157" DIA.
7. THE FOLLOWING SHOT PINS ARE APPROVED FOR NON-TENSION, SHEAR ONLY USE IN UNCRACKED CONCRETE:
   A. HILTI LOW VELOCITY X-U 0.157" DIA.
   B. POWERS 0.157" DIA. POWDER DRIVEN FASTENER
   C. RAMSET DUO-FAST 1500K
8. THE FOLLOWING SHOT PINS ARE APPROVED FOR TENSION AND SHEAR IN STEEL:
   A. HILTI LOW VELOCITY X-U 0.157" DIA.
   B. POWERS 0.157" DIA. POWDER DRIVEN FASTENER
   C. RAMSET DUO-FAST 1500K

TIMBER

1. CODES AND STANDARDS. COMPLY WITH THE LATEST VERSION OF:
   A. THE ANSI/AF&PA "NATIONAL DESIGN SPECIFICATION", (NDS).
   B. THE GRADING REQUIREMENTS OF THE WWPA.
2. MATERIALS: (ALL MATERIALS SHALL BE CLEARLY MARKED)
   A. STRUCTURAL LUMBER SPECIES AND GRADE SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED ON PLANS OR DETAILS, ANY SUBSTITUTIONS OR ALTERATIONS OF LOWER GRADE TIMBER SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
      a. JOISTS, BEAMS OR HEADERS: DF/L #2 OR BETTER.
      b. POSTS AND COLUMNS: DF/L #2 OR BETTER.
      c. STUDS: DF/L #2 OR BETTER.
   B. STRUCTURAL GLUED-LAMINATED TIMBER: 24F-V4 FOR SIMPLE SPANS AND 24F-V8 FOR CONTINUOUS OR CANTILEVERED BEAMS.
   C. ENGINEERED LUMBER:
      a. STRUCTURAL LAMINATED-STRAND-LUMBER (LSL BLOCKING): CONFORM TO THE FOLLOWING MINIMUM DESIGN VALUES:
         b.1. FB = 1,700 PSI (BLOCKING)
         b.2. FV = 425 PSI
         b.3. E = 1,300,000 PSI
      b. STRUCTURAL PARALLEL-STRAND-LUMBER (PSL): CONFORM TO THE FOLLOWING MINIMUM DESIGN VALUES:
         c.1. FB = 2,900 PSI (JOIST/BEAM ORIENTATION)
         c.2. FV = 290 PSI
         c.3. E = 2,200,000 PSI
   E. WOOD STRUCTURAL PANELS SHALL BE EXPOSURE 1 GRADE OR BETTER APA RATED SHEATHING WITH EXTERIOR GLUE AND CONFORM TO STANDARD PS 1-83, OR PS 2-92.
   F. WOOD CONNECTORS SHALL BE SIMPSON-STRONG-TIE OR APPROVED EQUAL.
   G. SPECIFIED NAILS ARE COMMON AND SHALL CORRESPOND TO THE FOLLOWING DIAMETERS AND LENGTHS: (16D -0.162"∅ & 3-1/2" LONG; 16D SINKER-0.148"∅ & 3-1/4"
   H. SCREWS SPECIFIED ARE SIMPSON SDWS SCREWS LONG; 10D-0.148"∅ & 3" LONG; 8D-0.131"∅ & 2-1/2" LONG)
3. CONSTRUCTION:
   A. JOIST HANGERS AND CONNECTORS:
      a. HANGER HARDWARE AND OTHER WOOD CONNECTIONS SHALL BE DESIGNED TO CARRY THE CAPACITY OF THE SUPPORTING MEMBERS.
   B. FLOOR FRAMING:
      a. JOISTS SHALL NOT HAVE LESS THAN 1.5 INCHES OF BEARING ON WOOD OR METAL, OR LESS THAN 3 INCHES ON MASONRY. PREFABRICATED WOOD I-JOISTS SHALL HAVE THE MINIMUM BEARING ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
      b. JOISTS SHALL BE SUPPORTED LATERALLY AT THE ENDS AND AT EACH SUPPORT BY FULL-DEPTH SOLID BLOCKING, EXCEPT WHERE NAILED TO A HEADER. SOLID BLOCKING SHALL NOT BE LESS THAN 2 INCHES THICK.
      c. WHERE NOMINAL DEPTH-TO-THICKNESS RATIO OF THE FRAMING MEMBER EXCEEDS 6:1, THERE SHALL BE ONE LINE OF BRIDGING FOR EACH 8 FEET OF SPAN. BRIDGING SHALL CONSIST OF NOT LESS THAN 1x3 INCH LUMBER, METAL BRACING, OR FULL-DEPTH SOLID BLOCKING.
      d. NOTCHES ON THE ENDS OF JOISTS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. HOLES BORED IN JOISTS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST. NOTCHES IN THE TOP OR BOTTOM OF JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN.
      e. THE DIAMETER OF HOLES BORED OR CUT INTO STRUCTURAL FLOOR MEMBERS SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE MEMBER. HOLES SHALL NOT BE CLOSER THAN 2 INCHES TO THE TOP OR BOTTOM OF THE MEMBER, OR TO ANY OTHER HOLE LOCATED IN THE MEMBER. WHERE THE MEMBER IS ALSO NOTCHED, THE HOLE SHALL NOT BE CLOSER THAN 2 INCHES TO THE NOTCH.
   C. WALL FRAMING:
      a. ALL EXTERIOR WALLS SHALL HAVE 1/2"∅ ANCHOR BOLTS @ 32" OC W/7" MIN EMBED, UNO. 2" x 2" x 3GA PLATE WASHERS SHALL BE USED ON ALL ANCHOR BOLTS, UNO.
      b. STUDS SHALL BE PLACED WITH THEIR WIDE DIMENSION PERPENDICULAR TO THE WALL. NOT LESS THAN THREE STUDS SHALL BE INSTALLED AT EACH CORNER OF AN EXTERIOR WALL.
      c. BEARING AND EXTERIOR WALL STUDS SHALL BE CAPPED WITH 2-INCH THICK NOMINAL DOUBLE TOP PLATES, HAVE A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUDS, AND SHALL BE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND INTERSECTIONS WITH OTHER PARTITIONS. END JOINTS IN PARTITIONS SHALL BE OFFSET AT LEAST 48 INCHES, AND SHALL BE NAILED WITH NOT LESS THAN 16d COMMON FACE NAILS ON EACH SIDE OF THE JOINT.
      d. IN NONBEARING WALLS AND PARTITIONS STUDS SHALL BE CAPPED WITH NO LESS THAN A SINGLE TOP PLATE INSTALLED TO PROVIDE OVERLAPPING AT CORNERS AND AT INTERSECTIONS WITH OTHER WALLS AND PARTITIONS. THE PLATE SHALL BE CONTINUOUSLY TIED AT JOINTS BY SOLID BLOCKING AT LEAST 16 INCHES IN LENGTH AND EQUAL IN SIZE TO THE PLATE OR METAL TIES WITH SPLICED SECTIONS FASTENED ON EACH SIDE OF THE JOINT.
      e. STUDS SHALL HAVE FULL BEARING ON A 2-INCH THICK NOMINAL (OR LARGER) BOTTOM PLATE OR SILL HAVING A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE STUD.
      f. BEARING PARTITIONS PARALLEL TO JOISTS SHALL BE SUPPORTED ON BEAMS, GIRDERS, DOUBLE JOISTS, WALLS, OR OTHER BEARING PARTITIONS. BEARING PARTITIONS PERPENDICULAR TO JOISTS SHALL NOT BE OFFSET FROM SUPPORTING GIRDERS, WALLS OR PARTITIONS MORE THAN THE JOIST DEPTH UNLESS NOTED OTHERWISE.
      g. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. IN NONBEARING PARTITIONS, CUTTING OR NOTCHING OF STUDS TO A DEPTH OF NOT GREATER THAN 40 PERCENT OF THE WIDTH IS PERMITTED.
      h. A HOLE WITH A DIAMETER NOT GREATER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 0.625 INCHES TO THE EDGE OF STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
   D. POSTS AND COLUMNS:
      a. COLUMNS SHALL BE AS WIDE AS THE MEMBER THEY SUPPORT, LATERALLY SUPPORTED AT ALL FLOOR LEVELS, AND EXTEND DOWN THROUGH THE STRUCTURE TO THE FOUNDATION. PROVIDE SQUASH BLOCKING AT RIM JOIST BELOW ALL COLUMNS, TRIMMERS, AND POSTS.
      b. WOOD COLUMNS AND POSTS SHALL BE FRAMED TO PROVIDE FULL END BEARING.
      c. POSTS AND COLUMNS SHALL BE SUPPORTED BY CONCRETE PIERS OR METAL PEDESTALS PROJECTING ABOVE CONCRETE OR MASONRY FLOORS OR DECKS EXPOSED TO WEATHER OR WATER SPLASH, OR IN BASEMENTS, AND WHICH SUPPORT PERMANENT STRUCTURES, UNLESS NATURALLY DURABLE OR PRESERVATIVE-TREATED LUMBER IS USED. THE PEDESTAL SHALL PROJECT AT LEAST 6 INCHES ABOVE EXPOSED EARTH AND AT LEAST 1 INCH ABOVE FLOORS.
   E. ROOF AND CEILING FRAMING:
      a. ROOF RAFTERS AND CEILING JOISTS SHALL BE SUPPORTED LATERALLY TO PREVENT ROTATION AND LATERAL DISPLACEMENT.
      b. RAFTERS AND JOISTS OVER 3 FEET LONG SHALL BE SUPPORTED USING HANGER HARDWARE IF NOT SUPPORTED BY BEARING.
   F. OTHER:
      a. INSTALL WASHERS UNDER ALL BOLT NUTS. MAKE BOLT HOLES ONLY 1/32 TO 1/16 INCH LARGER THAN BOLTS. TIGHTEN NUTS SNUGLY, BUT DO NOT CRUSH THE WOOD. DO NOT COUNTERSINK BOLTS, UNO.
      b. MINIMUM NAILING OF MEMBERS: CONFORM TO OSSC, TABLE 2304.10.1, UNO.
      c. WOOD SHEATHING: ALL PANELS SHALL BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO FRAMING. ALL JOINTS SHALL BE STAGGERED A MINIMUM OF 32". USE FULL SIZE PANELS EXCEPT AT ENDS OF ROOF, FLOOR, AND WALLS. DO NOT USE PANELS SMALLER THAN 4 SQ FT. NAILS SHALL NOT PENETRATE BEYOND THE FACE OF THE SHEATHING AND SHOULD REMAIN FLUSH. USE SHEATHING CLIPS WHERE BLOCKING IS NOT REQUIRED.
      d. FASTENERS IN PRESERVATIVE-TREATED AND FIRE-RETARDANT-TREATED WOOD: CONFORM TO OSSC 2304.9.5, UNO.

PREFABRICATED METAL PLATE WOOD TRUSSES

1. PREFABRICATED METAL PLATE WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH 2025 OSSC SECTION 2303.4 AND SHALL CONFORM TO THE STRUCTURAL SPECIFICATIONS AND DESIGN CRITERIA.
   A. DESIGN SNOW LOADS SHALL BE IN ACCORDANCE WITH ASCE 7-22 CHAPTER 7.
2. THE TRUSS DESIGNER SHALL PROVIDE A TRUSS PACKAGE THAT INCLUDES THE FOLLOWING ITEMS:
   A. DESIGN DRAWINGS OF EACH INDIVIDUAL TRUSS (OSSC 2303.4.1.1)
   B. TRUSS PLACEMENT DIAGRAM FOR THE PROJECT (OSSC 2303.4.2)
   C. TRUSS MEMBER PERMANENT BRACING SPECIFICATION (OSSC 2303.4.1.2)
3. TRANSFER OF LOADS AND ANCHORAGE OF EACH TRUSS TO THE SUPPORTING STRUCTURE SHALL BE APPROVED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (OSSC 2303.4.4)
4. DESIGN OF TRUSS TO TRUSS CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE TRUSS DESIGNER.
5. ALL TRUSS WEBS ON THE TRUSS DESIGN DRAWINGS THAT REQUIRE WEB BRACING SHALL USE AN "L" OR "T" REINFORCEMENT AS SHOWN IN DETAIL S7257.
   A. EXCEPTION: A HORIZONTAL LATERAL RESTRAINT MAY BE USED WHEN (3) OR MORE WEBS ALIGN AND A DIAGONAL BRACE IS PROVIDED FROM THE TOP CHORD TO THE BOTTOM CHORD ON THE OPPOSITE SIDE OF THE WEB AS SHOWN IN DETAIL S7257.
6. TRUSS MEMBERS AND COMPONENTS SHALL NOT BE CUT, NOTCHED, DRILLED, SPLICED, OR OTHERWISE ALTERED IN ANY WAY WITHOUT WRITTEN CONCURRENCE AND APPROVAL OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. ALTERATIONS RESULTING IN THE ADDITION OF LOADS TO ANY MEMBER SHALL NOT BE PERMITTED WITHOUT VERIFICATION THAT THE TRUSS IS CAPABLE OF SUPPORTING SUCH ADDITIONAL LOADING (OSSC 2303.4.5).

WOOD I-JOISTS

1. CODES AND STANDARDS: COMPLY WITH:
   A. ASTM D2559 - SPECIFICATION FOR ADHESIVES FOR BONDED STRUCTURAL WOOD PRODUCTS FOR USE UNDER EXTERIOR EXPOSURE CONDITIONS
   B. ASTM D5055 - SPECIFICATION FOR ESTABLISHING AND MONITORING STRUCTURAL CAPACITIES OF PREFABRICATED WOOD I-JOISTS
   C. AWPA U1 - USE CATEGORY SYSTEM: USER SPECIFICATION FOR TREATED WOOD
   D. PS 2 - PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS
2. MATERIALS: SHALL CONFORM AS FOLLOWS:
   A. SOLID LUMBER TOP AND BOTTOM FLANGES AND ORIENTED STRAND BOARD (OSB) WEBS BONDED TOGETHER WITH STRUCTURAL ADHESIVE, WITH PUBLISHED SPAN RATING TO MEET PROJECT REQUIREMENTS.
   B. SPAN RATING: ESTABLISHED AND MONITORED IN ACCORDANCE WITH ASTM D5055 BY AN INDEPENDENT INSPECTION AGENCY.
   C. ORIENTED STRAND BOARD: COMPLY WITH PS 2.
   D. ADHESIVE: TESTED FOR WET/EXTERIOR SERVICE IN ACCORDANCE WITH ASTM D2559.
   E. DEPTH: AS INDICATED IN DRAWINGS.
   F. FABRICATION TOLERANCES: FLANGE WIDTH: +/- 1/32-INCH, FLANGE THICKNESS: - 1/16-INCH, JOIST DEPTH: -1/8-INCH.
   G. MARKING: MARK EACH PIECE WITH DEPTH, JOIST SPACING, AND ALLOWABLE SPAN FOR JOIST SPACING.
   H. PROVIDE BEARING STIFFENERS IF REQUIRED BY SPAN RATING OR JOIST HANGER MANUFACTURER.
   I. WOOD MANUFACTURED FROM OLD GROWTH TIMBER IS NOT PERMITTED.
3. ACCESSORIES:
   A. JOIST BRIDGING: TYPE, SIZE, AND SPACING RECOMMENDED BY JOIST MANUFACTURER.
   B. WOOD BLOCKING, PLATES, AND MISCELLANEOUS FRAMING: SOFTWOOD LUMBER, ANY SPECIES, CONSTRUCTION GRADE, MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
   C. FASTENERS: ELECTROGALVANIZED STEEL, TYPE TO SUIT APPLICATION.
   D. BEARING PLATES: ELECTROGALVANIZED STEEL, UNFINISHED.
4. CONSTRUCTION:
   A. VERIFY THAT SUPPORTS AND OPENINGS ARE READY TO RECEIVE JOISTS.
   B. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED ON MANUFACTURER PROVIDED SHOP DRAWINGS.
   C. INSTALL JOISTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
   D. SET STRUCTURAL MEMBERS LEVEL AND PLUMB, IN CORRECT POSITION.
   E. MAKE PROVISIONS FOR ERECTION LOADS AND FOR SUFFICIENT TEMPORARY BRACING TO MAINTAIN STRUCTURE PLUMB AND IN TRUE ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRACING.
   F. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF EOR.
   G. INSTALL HEADERS AND SUPPORTS TO FRAME OPENINGS REQUIRED..
5. TOLERANCES:
   A. FRAMING MEMBERS: 1/2-INCH MAXIMUM, FROM TRUE POSITION.

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
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JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

GENERAL STRUCTURAL NOTES

DRAWN: LDL CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

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SHEET NO. G-212

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STATEMENT OF SPECIAL INSPECTIONS:

1. THE INSPECTION REQUIREMENTS AS NOTED ON THIS SHEET ARE REQUIRED FOR THE ITEMS THAT ARE SPECIFICALLY NOTED, DESIGNED AND DETAILED IN THE STRUCTURAL DOCUMENTS. REFER TO THE 2025 OSSC, CHAPTER 17, THE ARCHITECTURAL DRAWINGS, AND THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION AND ADDITIONAL INSPECTION REQUIREMENTS FOR NON-STRUCTURAL ITEMS.
2. THE PROJECT OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED BELOW. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND/ OR EOR, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS REQUIRED BY THE BUILDING DEPARTMENT OF THE LOCAL JURISDICTION.
3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE EOR IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE EOR 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 BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
4. FABRICATION SHOP REQUIREMENTS:
   A. WHERE FABRICATION OF STRUCTURAL LOAD BEARING MEMBERS AND ASSEMBLIES ARE BEING PERFORMED ON THE PREMISES OF A FABRICATORS SHOP, SPECIAL INSPECTIONS REQUIRED SHALL BE PROVIDED IN THE SHOP DURING THE FABRICATION PROCESS. THIS REQUIREMENT MAY BE EXCEPTED IF THE WORK IS DONE ON THE PREMISES OF THE FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. A CERTIFICATE SHALL BE REQUIRED TO VERIFY SUCH APPROVAL. AT COMPLETION OF THE FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS.
5. THE CONTRACTOR SHALL:
   A. COORDINATE TESTING. DO NOT PROCEED WITH SUBSEQUENT WORK UNTIL INSPECTIONS AND TESTING HAS BEEN APPROVED.
   B. COPY INSPECTION REPORT/ TESTING RESULTS TO THE ARCH / EOR AND THE OWNER BEFORE WORK PROCEEDS.
   C. CORRECT DEFICIENT WORK AT NO ADDITIONAL COST TO THE OWNER.
6. STRUCTURAL OBSERVATIONS ARE REQUIRED FOR THIS PROJECT. CONTRACTOR TO NOTIFY EOR AT THE FOLLOWING CONSTRUCTION PHASES:
   A. CONCRETE
      a. FOOTINGS, STEM WALLS, AND PIERS - PRIOR TO PLACING CONCRETE
      b. CONCRETE OVER METAL MEZZANINE DECK @ STORAGE BUILDING PRIOR TO PLACING CONCRETE
   B. STEEL
      a. STAIR FRAMING-AFTER SUBSTANTIAL PORTION OF FRAMING IS ERECTED
   C. MASONRY
      a. WALLS - PRIOR TO GROUTING

SOILS CONSTRUCTION (OSSC 1705.6)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
VERIFY SUBGRADE IS ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	-	X	PRIOR TO PLACEMENT OF CONCRETE
VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND MATERIAL	-	X	PRIOR TO PLACEMENT OF COMPACTED FILL OR CONCRETE
VERIFY THAT SUBGRADE HAS BEEN APPROPRIATELY PREPARED	-	X	PRIOR TO PLACEMENT OF COMPACTED FILL
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X	ALL MATERIALS TO BE CHECKED AT EACH LIFT FOR PROPER CLASSIFICATIONS AND GRADATIONS NOT LESS THAN ONCE FOR EACH 10,000 SQUARE FEET OF SURFACE AREA
VERIFY PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION	X	-	-

CONCRETE CONSTRUCTION (OSSC 1705.3 AND 1705.12.1)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS	-	X	VERIFY PRIOR TO PLACING CONCRETE THAT REINFORCING IS OF SPECIFIED TYPE, GRADE AND SIZE; THAT IT IS FREE OF OIL, DIRT AND RUST; THAT IT IS LOCATED AND SPACED PROPERLY; THAT HOOKS, BENDS, TIES, STIRRUPS AND SUPPLEMENTAL REINFORCEMENT ARE PLACED CORRECTLY; THAT LAP LENGTHS, STAGGER AND OFFSETS ARE PROVIDED; AND THAT ALL MECHANICAL CONNECTIONS ARE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS AND/OR EVALUATION REPORT
CAST-IN-PLACE BOLTS AND EMBEDS	-	X	INSPECTION OF ANCHORS OR EMBEDS CAST IN CONCRETE IS REQUIRED WHEN ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS[b]			
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLIED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	-	REF. ACI 318:26.13.3.2
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	REF. ACI 318:26.13.3
USE OF REQUIRED MIX DESIGN	-	X	VERIFY THAT ALL MIXES USED COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS.
CONCRETE SAMPLING FOR STRENGTH TESTS, SLUMP, AIR CONTENT AND TEMP	X	-	-
CONCRETE AND SHOTCRETE PLACEMENT	X	-	-
CURING TEMP AND TECHNIQUES	-	X	VERIFY THAT THE AMBIENT TEMP FOR CONCRETE IS KEPT AT >50°F FOR AT LEAST 7 DAYS AFTER PLACEMENT, 3 DAYS FOR HIGH-EARLY CONCRETE. ACCELERATED METHODS MAY BE USED. THE AMBIENT TEMP FOR SHOTCRETE SHALL BE >40°F FOR THE SAME PERIOD OF TIME AS NOTED FOR CONCRETE. SHOTCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST 24 HOURS AFTER SHOTCRETING. ALL CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND SHALL BE FREE FROM FROST. IN HOT WEATHER CONDITIONS ENSURE THAT APPROPRIATE MEASURES ARE TAKEN TO AVOID PLASTIC SHRINKAGE CRACKING AND THAT THE SPECIFIED WATER/CEMENT RATIO IS NOT EXCEEDED.
STRENGTH VERIFICATION	-	X	VERIFY THAT ADEQUATE STRENGTH HAS BEEN ACHIEVED PRIOR TO REMOVAL OF SHORES AND FORMS OR THE STRESSING OF POST-TENSIONED TENDONS
FORMWORK	-	X	VERIFY THAT THE FORMS ARE PLACED PLUMB AND CONFORM TO THE SHAPES, LINES AND DIMENSIONS OF THE MEMBERS AS REQUIRED BY THE APPROVED CONSTRUCTION DOCUMENTS

POST-INSTALLED ANCHOR INSPECTIONS (OSSC SECTION 1705.1.1)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
ADHESIVE ANCHORS AND REINFORCING BARS	X	-	SPECIAL INSPECTION SHALL BE PERFORMED PER MANUFACTURER'S REQUIREMENTS AND APPROVED ICC-ES REPORTS. IF ANCHOR IS NOT INSTALLED IN A HORIZONTAL, UPWARDLY INCLINED OR OVERHEAD ORIENTATION MEANT TO RESIST SUSTAINED TENSION LOADS, SPECIAL INSPECTION MAY BE REDUCED TO A PERIODIC FREQUENCY.
MECHANICAL ANCHORS AND SCREW ANCHORS	X	-	SPECIAL INSPECTION SHALL BE PROVIDED PER MANUFACTURER'S REQUIREMENTS AND APPROVED ICC-ES REPORTS.

MASONRY PRIOR TO CONSTRUCTION (OSSC SECTION 1705.4, ARTICLE 1.15, TMS-602)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
REVIEW MATERIAL CERTIFICATES, MIX DESIGNS, TEST RESULTS AND CONSTRUCTION PROCEDURES	-	X	VERIFY THAT MATERIALS CONFORM TO THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS. MIX DESIGN, TEST RESULTS, MATERIAL CERTIFICATES, AND CONSTRUCTION PROCEDURES SHOULD BE SUBMITTED FOR REVIEW. MORTAR MIX DESIGNS SHALL CONFORM TO ASTM C270 WHILE GROUT SHALL CONFORM TO ASTM C476. MATERIAL CERTIFICATES SHALL BE PROVIDED FOR THE FOLLOWING: REINFORCEMENT; ANCHORS, TIES, FASTENERS, AND METAL ACCESSORIES; MASONRY UNITS; MORTAR AND GROUT MATERIALS. CONSTRUCTION PROCEDURES FOR COLD-WEATHER OR HOT WEATHER CONSTRUCTION SHALL BE REVIEWED

MASONRY INSPECTION AS CONSTRUCTION BEGINS (TABLE 1.19.2, TMS-402)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
PROPORTIONS OF SITE-PREPARED MORTAR	-	X	VERIFY THAT MORTAR IS OF THE TYPE AND COLOR SPECIFIED ON THE CONSTRUCTION DOCUMENTS, THAT IT CONFORMS TO ASTM C270, AND THAT IT IS MIXED IN ACCORDANCE WITH ARTICLE 2.6 A OF TMS-602
CONSTRUCTION OF MORTAR JOINTS	-	X	VERIFY THAT MORTAR JOINTS COMPLY WITH ARTICLE 3.3 B OF TMS 602
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGE	-	X	VERIFY THAT PRESTRESSING TENDONS COMPLY WITH ARTICLE 2.4 B OF TMS-602 AND THAT ANCHORAGES, COUPLERS, AND END BLOCKS COMPLY WITH ARTICLE 2.4 H
LOCATION OF REINFORCEMENT CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	X	VERIFY THAT REINFORCEMENT IS PLACED IN ACCORDANCE WITH ARTICLE 3.4 OF TMS-602 PRESTRESSING TENDONS SHALL BE PLACED PER ARTICLE 3.6 A

MASONRY INSPECTION PRIOR TO GROUTING (TABLE 1.19.2, TMS-402)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
GROUT SPACE	-	X	VERIFY THAT GROUT SPACE IS FREE OF MORTAR DROPPINGS, DEBRIS, LOOSE AGGREGATE, AND OTHER DELETERIOUS MATERIALS AND THE CLEANOUTS ARE PROVIDED PER ARTICLE 3.2 D AND 3.2 F OF TMS-602
GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	X	VERIFY THAT REINFORCEMENT, JOINT REINFORCEMENT, WALL TIES, ANCHOR BOLTS AND VENEER ANCHORS COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS AND SECTION 1.6 OF TMS 402
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	-	X	VERIFY THAT REINFORCEMENT, JOINT REINFORCEMENT, WALL TIES, ANCHOR BOLTS AND VENEER ANCHORS ARE INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND ARTICLES 3.2 E, 3.4 AND 3.6 A OF TMS 602
PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	-	X	VERIFY THAT GROUT IS PROPORTIONED PER ASTM C476 AND HAS A SLUMP BETWEEN 8-11 INCHES. SELF-CONSOLIDATING GROUT SHALL BE PROPORTIONED ONSITE.
CONSTRUCTION OF MORTAR JOINTS	-	X	VERIFY THAT MORTAR JOINTS ARE PLACED IN ACCORDANCE WITH ARTICLE 3.3 B OF TMS 602

MASONRY INSPECTION PRIOR TO GROUTING (TABLE 1.19.2, TMS-402)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	-	X	VERIFY THE LOCATIONS OF STRUCTURAL ELEMENTS WITH RESPECT TO THE APPROVED PLANS AND CONFIRM THAT TOLERANCES MEET THE REQUIREMENTS OF ARTICLE 3.3 F OF TMS 602
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	-	X	VERIFY THAT CORRECT ANCHORAGES AND CONNECTIONS ARE PROVIDED PER THE APPROVED PLANS AND SECTIONS 1.16.4.3 AND 1.17.1 OF TMS 402.
WELDING OF REINFORCEMENT	X	-	-
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (<40°) OR HOT WEATHER (>90°F)	-	X	VERIFY THAT COLD-WEATHER AND HOT-WEATHER CONSTRUCTION IS PERFORMED IN ACCORDANCE WITH ARTICLE 1.8 C AND 1.8 D OF TMS 602, RESPECTIVELY.
APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	-	-
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	-	-
OBSERVATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	-	X	CONFIRM THAT SPECIMENS/PRISMS ARE PERFORMED AS REQUIRED BY ARTICLE 1.4 OF TMS 602

MASONRY MINIMUM TESTING

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) FOR SELF-CONSOLIDATING GROUT	-	X	COMPRESSIVE STRENGTH TESTS SHOULD BE PERFORMED IN ACCORDANCE WITH ASTM C1019 FOR SLUMP FLOW AND ASTM C1611 FOR VSI
VERIFICATION OF f'_m	-	X	DETERMINE THE COMPRESSIVE STRENGTH FOR EACH WYTHE BY THE "UNIT STRENGTH METHOD" OR BY THE "PRISM TEST METHOD" AS SPECIFIED IN ARTICLE 1.4 B OF TMS 602 PRIOR TO CONSTRUCTION.
VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PRE-BLENDED MORTAR AND GROUT	-	X	VERIFY THAT PROPORTIONS FOR MORTAR MEET ASTM C270 AND PROPORTIONS FOR GROUT MEET ASTM C476.

INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1, AISC 360-16)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES	X	-	-
MATERIAL IDENTIFICATION	-	X	VERIFY TYPE AND GRADE OF MATERIAL
WELDER IDENTIFICATION	-	X	A SYSTEM SHALL BE MAINTAINED BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED
FIT GROOVE WELDS	-	X	VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING
ACCESS HOLES	-	X	VERIFY CONFIGURATION AND FINISH
FIT-UP FILLET WELDS	-	X	VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND TACK WELD QUALITY AND LOCATION

INSPECTION TASKS DURING WELDING (TABLE N5.4-2, AISC 360-16)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
USE FOR VERIFICATION AND INSPECTION	-	X	VERIFY THAT WELDERS ARE APPROPRIATELY QUALIFIED
CONTROL AND HANDLING OF WELDING CONSUMABLES	-	X	VERIFY PACKAGING AND EXPOSURE CONTROL
CRACK TACK WELDS	-	X	VERIFY THAT WELDING DOES NOT OCCUR OVER CRACKED TACK WELDS
ENVIRONMENTAL CONDITIONS	-	X	VERIFY WIN SPEED IS WITHIN LIMITS AS WELL AS PRECIPITATION AND TEMPERATURE
WPS FOLLOWED	-	X	VERIFY ITEMS SUCH AS SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION
WELDING TECHNIQUES	-	X	VERIFY INTERPASS AND FINAL CLEANING, EACH PASS IS WITHIN PROFILE LIMITATIONS, AND QUALITY OF EACH PASS

INSPECTION TASKS AFTER WELDING (TABLE N5.4-3, AISC 360-16)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
WELDS CLEANED	-	X	VERIFY THAT WELDS HAVE BEEN PROPERLY CLEANED
SIZE, LENGTH, AND LOCATION OF WELDS	X	-	-
WELDS MEET VISUAL ACCEPTANCE CRITERIA	X	-	-
ARC STRIKES	X	-	-
K-AREA	X	-	-
BACKING & WELD TABS REMOVED	X	-	-
REPAIR ACTIVITIES	X	-	-
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/MEMBER	X	-	-

METAL BUILDING SYSTEMS (OSSC 1705.2.6)

ITEM FOR VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		COMMENTS
	CONTINUOUS	PERIODIC	
INSTALLATION OF RAFTER/BEAM FLANGE BRACES AND COLUMN FLANGE BRACES	-	X	-
INSTALLATION OF PURLINS AND GIRTS, INCLUDING SPECIFIC LAPPING	-	X	-
PURLIN AND GIRT RESTRAINT/BRIDGING/BRACING	-	X	-
INSTALLATION OF X-BRACING,TIGHTENED TO REMOVE ANY SAG	-	X	-

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 79041PE OREGON JULY 2, 2011 BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

SPECIAL INSPECTIONS

DRAWN: LDL | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 11

SHEET NO. G-213

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EXISTING TOPOGRAPHY

- 2460 — TOPOGRAPHIC CONTOUR
- EG — EG — EDGE OF GRAVEL
- EP — EP — EDGE OF PAVEMENT
- CURB & GUTTER, SIDEWALK & DROP INLET
- GENERIC GATE — X — SWING GATE — FENCE (BARBED WIRE OR OTHER WITH GATES)
- SLIDER GATE — O — O — FENCE (CHAINLINK WITH GATE)
- DITCH FLOWLINE
- TP-31 — TEST PIT
- SIGN
- BUILDING OR STRUCTURE

PROPERTY & CONTROL

- CP #203 — SURVEY CONTROL POINT
- BM-#1 — BENCHMARK
- FOUND BRASS CAP
- FOUND ALUMINUM CAP
- FOUND 5/8" STEEL PIN
- SET 5/8" STEEL PIN W/CAP
- FOUND 1/2" STEEL PIN
- SET 1/2" STEEL PIN W/CAP
- FOUND PK NAIL
- SET PK NAIL
- CALCULATED POINT
- WC — WITNESS CORNER
- EASEMENT - UTILITY
- EASEMENT - TEMPORARY
- EASEMENT - SETBACK
- PROJECT BOUNDARY
- P/L — P/L — PROPERTY LINES
- SECTION LINES
- R/W — R/W — PRESCRIPTIVE RIGHT OF WAY
- ROW — ROW — DEDICATED RIGHT OF WAY
- ( ) — DATA OF RECORD
- 6 / 7 — QUARTER SECTION - NOT FOUND
- 5 — CENTER SECTION
- 5 6 / 7 8 — SECTION CORNER - FOUND

EXISTING UTILITY

- 8"W — 8"W — WATERLINE & VALVE
- 12"SS> — 12"SS> — SANITARY SEWER LINE & MANHOLE
- <4"SS — <4"SS — SANITARY SEWER SERVICE & CLEANOUT
- PS — PS — PS — PRESSURE SEWER LINE & VALVE VAULT
- 10"SD> — 10"SD> — STORM DRAIN LINE & MANHOLE
- 8"PI — 8"PI — 8"PI — PRESSURE IRRIGATION & VALVE
- GI — GI — GI — GRAVITY IRRIGATION & MANHOLE
- PP — OHP — OHP — OVERHEAD POWER LINE & POWER POLE
- UGP — UGP — UNDERGROUND POWER LINE
- SIGNAL POLE
- LIGHT POLE
- NG — NG — NG — NATURAL GAS LINE
- FO — FO — FO — FIBER OPTIC LINE
- TR — T — T — T — TELEPHONE LINE & RISER
- TV — CABLE — CABLE — CABLE LINE & RISER

PROPOSED GRADING

- 2457 — TOPOGRAPHIC CONTOUR
- RIDGELINE
- SWALE FLOWLINE
- DAYLIGHT - CUT LINE
- DAYLIGHT - FILL LINE

PROPOSED DEMOLITION, ABANDONMENT, REMOVAL

- DEMOLITION & REMOVAL
- ABANDON IN PLACE
- REMOVE SURFACE FEATURE
- CLEARING AND GRUBBING

PROPOSED SITE - COLORS

BUILDING OR STRUCTURE - NEW	BUILDING OR STRUCTURE - REMODEL
ASPHALT - HEAVY DUTY	ASPHALT - LIGHT DUTY
CONCRETE - HEAVY DUTY	CONCRETE - LIGHT DUTY
GRAVEL - HEAVY DUTY	GRAVEL - LIGHT DUTY
LANDSCAPE - SEEDING	LANDSCAPE - TURF OR SOD
LANDSCAPE - MISCELLANEOUS	LANDSCAPE - PAVERS
CONCRETE - CURB & GUTTER	LANDSCAPE - ROCK

PROPOSED SITE (CONT.)

- GENERIC GATE — X — SWING GATE — FENCE (BARBED WIRE OR OTHER WITH GATES)
- SLIDER GATE — O — FENCE (CHAINLINK WITH GATE)
- EP — EP — EDGE OF PAVEMENT
- EG — EG — EDGE OF GRAVEL
- SIGN
- 6" VERTICAL CURB, GUTTER, SIDEWALK & INLET
- 6" VERTICAL CUT CURB & GUTTER
- 6" REVERSE CURB & GUTTER
- 6" REVERSE CUT CURB & GUTTER
- IMBEDDED CURB

PROPOSED UTILITY

FLANGED — MECHANICAL JOINT — FITTING TYPES

- 45° — 8"W — BEND
- 8"W — 8"W — REDUCING TEE
- TEE
- REDUCER
- FLANGE TO MECHANICAL JOINT COUPLING
- CROSS
- CAP W/BLIND FLANGE
- GATE VALVE & BUTTERFLY VALVE
- CHECK VALVE & BLOW-OFF VALVE
- AIR RELEASE VALVE IN MANHOLE
- 8 — LOCATION WIRE BOX
- RESTRAINED FITTING
- WM — WATER SERVICE LINE & METER
- FIRE HYDRANT
- 8" FIRE — 8" FIRE — FIRE LINE
- 8"W — 8"W — WATERLINE
- MW — MONITORING WELL
- NON-FREEZE YARD HYDRANT
- 8"PI — PRESSURE IRRIGATION, TEE & GATE VALVE
- 2"PI — PRESSURE IRRIGATION SERVICE
- 8"GI< — 8"GI< — GRAVITY IRRIGATION & STRUCTURE

PROPOSED UTILITY (CONT.)

- 8"SS< — 8"SS< — SANITARY SEWER & MANHOLE
- 4"SS< — SANITARY SEWER SERVICE & CAP
- 4"SS< — 4"SS< — SANITARY SEWER SERVICE & CLEANOUT
- 8"PS< — 8"PS< — PRESSURE SEWER
- PRESSURE SEWER CLEANOUT IN MANHOLE
- PRESSURE REDUCING VALVE VAULT
- 18"SD< — 15"SD< — STORM DRAIN LINE, INLET & CATCH BASIN
- 12"SD< — 12"SD< — STORM DRAIN LINE & MANHOLE W/ VENTED LID
- JOINT TRENCH IN PROFILE
- CABLE & TELEPHONE RISERS
- JT — DEVICE — JT — JOINT TRENCH & DEVICE
- JUNCTION BOX & DUCT BANK
- NG — GM — NG — NATURAL GAS LINE & METER
- NG — GR — NG — NATURAL GAS LINE & RISER
- NG — NG — NATURAL GAS LINE & VALVE
- UGP — UGP — UNDERGROUND POWER
- OHP — PP — OHP — OVERHEAD POWER & POLE
- LIGHT POLE
- T — T — TR — TELEPHONE LINE & RISER
- T — FO — FO — FIBER OPTIC LINE & VAULT
- T/D — T/D — TELEPHONE DATA LINE
- TV — CABLE — CABLE & TV RISER

DETAIL & SECTION CALLOUT KEY

DISCIPLINE DETAIL DESIGNATORS

C CIVIL (C-500 SHEETS)	H HVAC (MH-500 SHEETS)
A ARCHITECTURAL (A-500 SHEETS)	M MECHANICAL (M-500 SHEETS)
S STRUCTURAL (S-500 SHEETS	E ELECTRICAL (E-500 SHEETS)
P PLUMBING (MP-500 SHEETS)	EI INSTRUMENTATION (EI-500 SHEETS)

(REFERENCE)

RE: A1/S-101-A ← (SECTION OR DETAIL NO./SHEET NO.)

RE: C1201 ← (DISCIPLINE DETAIL NO. SEE RESPECTIVE 500 SHEETS)

C2 ← (SECTION OR DETAIL NO.) — A1 / C-204

S-301-B ← (SHEET NO.)

M303 ← (DISCIPLINE DETAIL NO. SEE RESPECTIVE 500 SHEETS)

(SECTION OR DETAIL NO./GRID LOCATION)

A1 — TYPICAL SECTION ← (DETAIL TITLE)

SCALE: 1"=1' — 0 1 2

(DISCIPLINE DETAIL NO. SEE RESPECTIVE 500 SHEETS)

S2135 — PROJECT DETAIL ← (DETAIL TITLE)

N.T.S.

KELLER ASSOCIATES
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(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
96662PE
Digitally Signed 2026.05.01 12:59:16-07'00'
OREGON
NOV. 11, 2020
ANGELA J. TAYLOR
EXPIRES: 06-30-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CIVIL SYMBOLS & LINE LEGEND

DRAWN: BAJ | CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 12

FIGURE NO. C-001

LAST SAVED: 4/29/2026 7:11 AM PRINTED: 4/29/2026 11:14 AM
J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\CIVIL SYMBOLS & LINE LEGEND.DWG

GENERAL NOTES:

1) REFERENCE TO THE PROJECT MANUAL AND CONTRACT FOR ADDITIONAL GENERAL REQUIREMENTS, INCLUDING (SCHEDULE, SUBMITTALS, SURVEYING, TEMPORARY FACILITIES, CLOSEOUT PROCEDURES, ETC).

2) ALL NOTES SPECIFIED HEREIN ARE TO BE COMPLETED OR ADHERED TO BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED TO BE PERFORMED BY OTHER PARTIES.

3) KEEP A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND PROJECT MANUAL ONSITE DURING CONSTRUCTION.

4) ATTEND A PRE-CONSTRUCTION CONFERENCE PRIOR TO THE START OF WORK. NO WORK MAY BEGIN ON THE PROJECT WITHOUT TWENTY-FOUR (24) HOUR PRIOR NOTICE TO THE CITY.

5) VERIFY SITE CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK; PRESENT ANY DEVIATIONS, OMISSIONS OR DISCREPANCIES TO THE ENGINEER FOR RESOLUTION. SUBMIT ANY PROPSOED CHANGES TO THE PLANS AND SPECIFICATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTATION OR CHANGE.

6) TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE ALL EXISTING UTILITY LINES, DRAINAGE PIPES AND CULVERTS, STRUCTURES, SURVEY MONUMENTS AND STREET IMPROVEMENTS THAT ARE TO REMAIN IN PLACE. REPAIR OR REPLACE ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS TO THE SATISFACTION OF THE ENGINEER AND UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.

7) HORIZONTAL AND VERTICAL LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT EXACT. PRIOR TO CONSTRUCTION, POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITY CROSSINGS AND INTERFERENCES TO VERIFY LOCATION & DEPTH. REPORT CONFLICTS, DESCREPENCIES, AND INTERFERENCES WITH THE CONSTRUCTION TO THE ENGINEER.

8) ENSURE ALL EXISTING UTILTIES ARE KEPT IN OPERATION DURING THE ENTIRETY OF THE PROJECT.

9) FURNISH MATERIALS WHERE "INSTALL", "PLACE" OR "CONSTRUCT" IS REQUIRED UNLESS NOTED OTHERWISE.

10) NOTIFY THE ENGINEER WHEN MATERIALS TO BE PLACED OR INSTALLED ARE ON-SITE OR AN INSPECTION OF THE WORK IS REQUIRED.

11) PROVIDE UTILITY SUPPORT AT ALL TRENCH CROSSINGS AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER IF UTILITIES MARKED BY DIG LINE WILL CAUSE MODIFICATION TO THE DESIGN.

12) REPLACED OR RECONSTRUCTED ALL MISCELLANEOUS STRUCTURES SUCH AS FENCES, MAILBOXES, SIGNS, IRRIGATION AND DRAINAGE FACILITIES, SIGNS, UTILITY POLES, LINE AND APPURTENANCES WHEN NECESSARY TO BE REMOVED OR DISTURBED, TO BETTER THAN OR EQUAL THEIR EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.

13) RESTORE AREAS DISTRUBED BY CONSTRUCTION WHERE SURFACE REPAIR IS NOT INDICATED TO EQUAL OR BETTER CONDITION ENCOUNTERED PRIOR TO CONSTRUCTION.

14) GAIN APPROVAL OF WORK FROM THE OWNER, ENGINEER, OR APPLICABLE UTILITY OWNER PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING; AND (E) PLACING IN SERVICE.

15) INSPECTION, APPROVAL AND FINAL ACCEPTANCE OF ALL CONSTRUCTION SHALL BE BY THE FACILITY OWNER. SUCH INSPECTIONS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.

16) THE CONTRACTOR IS RESPONSIBILITY FOR JOBSITE SAFETY. THIS INCLUDES COMPLIANCE WITH OSHA REGULATIONS, MAINTAINING SAFETY PROGRAMS, TRAINING, AND ENSURING SAFE WORK PRACTICES. THE ENGINEER AND OWNER SHALL NOT HAVE CONTROL OVER, CHARGE OF, OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.

CONSTRUCTION STANDARDS:

17) THE FOLLOWING CONSTRUCTION SPECIFICATIONS AND STANDARDS MAKE REFERENCE TO MEASUREMENT AND PAYMENT METHODS. ALL WORK SHALL BE COMPLETED ON A LUMP SUM BASIS IN ACCORDANCE WITH THE FIXED-PRICE CONSTRUCTION CONTRACT. NO SEPARATE OR SPECIAL PAYMENT WILL BE MADE FOR ITEMS LISTED IN THESE STANDARDS UNLESS SPECIFICALLY IDENTIFIED IN THE BID SCHEDULE OR CONTRACT DOCUMENTS.

18) OREGON DEPARTMENT OF TRANSPORTATION (ODOT)

CONSTRUCTION WITHIN PUBLIC RIGHTS-OF-WAY, ACCESS ROADS, PAVED AREAS, AND OTHER TRANSPORTATION-RELATED FACILITIES SHALL CONFORM TO THE OREGON DEPARTMENT OF TRANSPORTATION STANDARDS, UNLESS SPECIFICALLY MODIFIED HEREIN.

A) ODOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION

HTTPS://WWW.OREGON.GOV/ODOT/BUSINESS/PAGES/STANDARD-SPECIFICATIONS.ASPX

B) ODOT STANDARD DRAWINGS, CURRENT EDITION

HTTPS://WWW.OREGON.GOV/ODOT/ENGINEERING/PAGES/STANDARD-DRAWINGS.ASPX

19) CITY OF PENDLETON STANDARDS

CONSTRUCTION SHALL COMPLY WITH APPLICABLE CITY OF PENDLETON PUBLIC WORKS STANDARDS, ORDINANCES, AND PERMIT CONDITIONS, UNLESS SPECIFICALLY MODIFIED BY THE CONTRACT DOCUMENTS.

20) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

TRAFFIC CONTROL, SIGNING, STRIPING, AND CONSTRUCTION TRAFFIC MANAGEMENT SHALL CONFORM TO THE CURRENT ADOPTED EDITION OF THE MUTCD, AS SUPPLEMENTED BY ODOT AND THE CITY OF PENDLETON.

A) HTTPS://MUTCD.FHWA.DOT.GOV/

21) OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ)

ALL WORK SHALL COMPLY WITH APPLICABLE OREGON DEQ REQUIREMENTS, INCLUDING CONDITIONS OF ANY ISSUED PERMITS RELATED TO EROSION CONTROL, STORMWATER, WASTEWATER FACILITIES, AND ENVIRONMENTAL PROTECTION.

22) CONFLICTS AND ORDER OF PRECEDENCE

IN THE EVENT OF A CONFLICT BETWEEN REFERENCED STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. WHERE MULTIPLE STANDARDS APPLY, THE MORE STRINGENT REQUIREMENT SHALL APPLY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

23) CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR SHALL OBTAIN AND MAINTAIN COPIES OF ALL APPLICABLE SPECIFICATIONS, STANDARDS, AND MANUALS AT THE PROJECT SITE AND MAKE THEM AVAILABLE TO THE ENGINEER UPON REQUEST.)

SUBMITTALS:

24) PRIOR TO INCORPORATING MATERIALS INTO THE WORK, SUBMIT TO THE ENGINEER ALL MATERIALS FOR REVIEW AND APPROVAL.

25) FOR PLANNING PURPOSES, ASSUME A MINIMUM OF 14 DAYS FOR REVIEW BY THE ENGINEER FOLLOWING RECEIPT OF SUBMITTAL/RESUBMITTAL. IF AN EXPEDITED REVIEW IS REQUESTED BY THE CONTRACTOR, IDENTIFY THE REQUESTED EXPEDITED REVIEW. THE ENGINEER WILL ATTEMPT TO ACCOMMODATE THE EXPEDITED REVIEW.

26) VERIFY THAT THE MATERIAL OR EQUIPMENT DESCRIBED IN EACH SUBMITTAL CONFORMS TO ALL REQUIREMENTS OF THE SPECIFICATIONS AND DRAWINGS. WHERE THE DETAILED SPECIFICATIONS REQUIRE SPECIFIC SUBMITTAL DATA, SUBMIT ALL DATA AT THE SAME TIME. THE SUBMITTALS ARE TO BE ACCOMPANIED BY THE TRANSMITTAL FORM THAT CLARILY IDENTIFIES THE PURPOSE OF THE SUBMITTAL AND ITS INTENDED USE. SEQUENTIALLY NUMBER THE SUBMITTALS STARTING AT 001. INCLUDE THE SPECIFICATION NUMBER IF APPLICABLE. THE ENGINEER WILL RETURN FOR RESUBMITTAL ANY INFORMATION NOT ACCOMPANIED BY THE SPECIFIED TRANSMITTAL FORM, PROPERLY COMPLETED.

27) IF THE CONTRACTOR PROPOSES TO PROVIDE MATERIAL OR EQUIPMENT THAT DOES NOT CONFORM TO ALL OF THE SPECIFICATIONS AND DRAWINGS, INDICATE ON THE TRANSMITTAL FORM ACCOMPANYING THE SUBMITTAL UNDER "COMMENTS" AND STATE THE DEVIATIONS.

28) IF SUBMITTAL IS RETURNED TO THE CONTRACTOR MARKED "NO EXCEPTIONS TAKEN," FORMAL REVISION AND RESUBMISSION OF SAID SUBMITTAL WILL NOT BE REQUIRED.

29) IF SUBMITTAL IS RETURNED TO THE CONTRACTOR MARKED "MAKE CORRECTIONS NOTED," FORMAL REVISION AND RESUBMISSION OF SAID SUBMITTAL WILL NOT BE REQUIRED.

30) IF SUBMITTAL IS RETURNED TO THE CONTRACTOR MARKED "AMEND-RESUBMIT," REVISE SAID SUBMITTAL AND RESUBMIT THE REQUIRED NUMBER OF COPIES OF SAID REVISED SUBMITTAL TO THE ENGINEER.

31) IF SUBMITTAL IS RETURNED TO THE CONTRACTOR MARKED "REJECTED-RESUBMIT," REVISE SAID SUBMITTAL AND RESUBMIT THE REQUIRED NUMBER OF COPIES OF, SAID REVISED SUBMITTAL TO THE ENGINEER.

32) ONLY COMMENCE FABRICATION OF AN ITEM AFTER THE ENGINEER HAS REVIEWED THE PERTINENT SUBMITTALS AND RETURNED COPIES TO THE CONTRACTOR MARKED EITHER "NO EXCEPTIONS TAKEN" OR "MAKE CORRECTIONS NOTED". CORRECTIONS INDICATED ON SUBMITTALS SHALL BE CONSIDERED AS CHANGES NECESSARY TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SHALL NOT BE TAKEN AS THE BASIS FOR CHANGES TO THE CONTRACT REQUIREMENTS.

33) ACCEPTANCE BY THE ENGINEER OF ANY DRAWINGS, METHOD OF WORK, OR ANY INFORMATION REGARDING MATERIALS OR EQUIPMENT THE CONTRACTOR PROPOSES TO PROVIDE SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ANY ERRORS THEREIN AND SHALL NOT BE REGARDED AS AN ASSUMPTION OF RISK OR LIABILITY BY THE ENGINEER OR OWNER, OR BY ANY OFFICER OR EMPLOYEES THEREOF, AND THE CONTRACTOR SHALL HAVE NO CLAIM UNDER THE CONTRACT ON ACCOUNT OF THE FAILURE OR PARTIAL FAILURE OR INEFFICIENCY OF ANY PLAN OR METHOD OF WORK OR MATERIAL OR EQUIPMENT SO ACCEPTED. SUCH ACCEPTANCE SHALL BE CONSIDERED TO MEAN MERELY THAT THE ENGINEER HAS NO OBJECTION TO THE CONTRACTOR USING, UPON HIS OWN FULL RESPONSIBILITY, THE PLAN OR METHOD OF WORK PROPOSED, OR PROVIDING THE MATERIALS OR EQUIPMENT PROPOSED.

34) APPROVAL OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. ANY ACTION SHOWN IS SUBJECT TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE, FABRICATION PROCESS AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK..

UTILITY COORDINATION:

35) FOURTEEN DAYS PRIOR TO CONSTRUCTION CALL DIG LINE AT 811 OR 800-342-1585.

36) ALL EXISTING UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE LOCATIONS.

37) PRIOR TO CONSTRUCTION, POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITY CROSSINGS AND INTERFERENCES TO VERIFY LOCATION AND DEPTH.

38) COORDINATE AND NOTIFY ALL AFFECTED UTILITY OWNERS.

39) BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING OR CONSTRUCTED UTILITIES AND REPAIR DAMAGES IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS AT NO ADDITIONAL COST.

40) PROVIDE AN INDIVIDUAL WHOSE PRIMARY RESPONSIBILITY IS TO COORDINATE THE WORK WITH EACH UTILITY COMPANY THAT WILL OR MAY AFFECT THE UTILITY COMPANY'S PROPERTY, FACILITIES, OR OPERATIONS. BE AVAILABLE BY TELEPHONE WHENEVER THERE IS WORK BEING PERFORMED BY THE CONTRACTOR, SUBCONTRACTOR, LOWER-TIER SUBCONTRACTOR, OR UTILITY COMPANY. COORDINATE THE FOLLOWING ACTIVITIES AND MAKE DOCUMENTS GENERATED BY THESE ACTIVITIES AVAILABLE TO THE CONTRACTOR, SUBCONTRACTORS AND THE ENGINEER. RESOLVE UTILITY CONFLICTS AND SEEK ENGINEER'S/OWNER'S APPROVAL TO ADDRESS UNIDENTIFIED UTILITY CONFLICTS.

SURVEYING:

41) PROVIDE CONSTRUCTION SURVEY STAKING FOR THE WORK.

42) IF AUTOCAD ELECTRONIC FILES ARE MADE AVAILABLE TO THE CONTRACTOR. IN THE EVENT OF A DISCREPANCY BETWEEN THE STAMPED PAPER DRAWINGS AND THE ELECTRONIC FILES, THE STAMPED PAPER DRAWINGS SHALL GOVERN. IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING. INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL LIABILITY, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEYS' FEES ARISING OUT OF OR RESULTING FROM THE USE OR INTERPRETATION OF ELECTRONIC FILES.

43) EMPLOY A PROFESSIONAL LAND SURVEYOR, DULY LICENSED AND REGISTERED IN THE STATE OF OREGON, TO REFERENCE ALL PUBLIC AND PRIVATE LAND SURVEY MONUMENTS THAT MAY BE DISTURBED BY CONSTRUCTION ACTIVITIES PRIOR TO THE START OF CONSTRUCTION. REESTABLISH ALL DISTURBED MONUMENTS AS PART OF THE SURVEY WORK FOR THIS PROJECT PRIOR TO PROJECT COMPLETION.

44) SECTION CORNER AND QUARTER CORNER MONUMENTS RESET AFTER CONSTRUCTION SHALL INCLUDE APPROPRIATE CORNER PERPETUATION RECORDS FILED WITH THE COUNTY SURVEYOR IN ACCORDANCE WITH APPLICABLE OREGON STATUTES AND REGULATIONS. SIXTEENTH CORNER MONUMENTS THAT ARE RESET AND HAVE EXISTING CORNER PERPETUATION RECORDS ON FILE SHALL HAVE NEW PERPETUATION RECORDS FILED FOLLOWING MONUMENT REESTABLISHMENT.

45) ALL MONUMENT REFERENCING, REESTABLISHMENT, AND FILING SHALL BE PERFORMED IN ACCORDANCE WITH OREGON REVISED STATUTES, APPLICABLE OREGON ADMINISTRATIVE RULES, AND THE REQUIREMENTS OF THE OREGON STATE BOARD OF EXAMINERS FOR ENGINEERING AND LAND SURVEYING (OSBEELS).

46) ALL CORNER, PROPERTY BOUNDARY, AND ROADWAY CENTERLINE REESTABLISHMENT SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SURVEYING PRACTICE UNDER THE RESPONSIBLE CHARGE OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF OREGON.

DEMOLITION:

47) PRIOR TO COMMENCING DEMOLITION OR REMOVAL ACTIVITIES, CLEARLY MARK THE APPROVED LIMITS OF REMOVAL AND IDENTIFY ALL EXISTING FACILITIES TO BE DEMOLISHED OR REMOVED. OBTAIN ENGINEER APPROVAL OF THE LIMITS AND ITEMS PRIOR TO DEMOLITION.

48) DEMOLITION OR REMOVAL PERFORMED BEYOND THE APPROVED LIMITS SHALL BE RECONSTRUCTED OR REPLACED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S SOLE EXPENSE. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

49) THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACTUAL CONDITION OF ITEMS OR STRUCTURES TO BE DEMOLISHED. EXISTING CONDITIONS ARE THOSE PRESENT AT THE TIME OF COMMENCEMENT OF THE CONTRACT.

50) PROTECT ALL EXISTING FACILITIES, FINISHES, PAVEMENTS, UTILITIES, AND STRUCTURES THAT ARE TO REMAIN IN PLACE AND MAY BE EXPOSED DURING DEMOLITION. PROVIDE SUITABLE COVERINGS AND BARRIERS TO PREVENT DAMAGE, INCLUDING PROTECTION OF EXISTING CONCRETE AND ASPHALT SURFACES.

51) THE WWRRF SHALL REMAIN OPERATIONAL AT ALL TIMES. COORDINATE DEMOLITION ACTIVITIES WITH THE CITY OF PENDLETON OPERATIONS STAFF. NO DEMOLITION SHALL INTERFERE WITH ACTIVE TREATMENT PROCESSES, UTILITIES, OR EMERGENCY ACCESS WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER.

CLEARING, GRUBBING, AND REMOVAL OF OBSTRUCTIONS:

52) CLEAR AND GRUB TO A MINIMUM DEPTH OF 12" TO REMOVE TOPSOIL. ARRANGE FOR AN INSPECTION BY THE ENGINEER TO CHECK THAT THE TOPSOIL HAS BEEN ADEQUATELY REMOVED. OBTAIN THE ENGINEER'S APPROVAL PRIOR TO PROCEEDING.

53) REMOVE IRRIGATION DITCHES AND ASSOCIATED PIPING..

BUILDING PAD PREPARATION:

54) IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR REPRESENTATIVE, PREPARE THE SUBGRADE BY THOROUGHLY PROOFROLLING WITH A LOADED TANDEM-AXLE DUMP TRUCK WITH A MINIMUM WEIGHT OF 20 TONS, OR 40-TON STATIC ROLLER. OBTAIN THE GEOTECHNICAL ENGINEER'S APPROVAL PRIOR TO PROCEEDING.

55) AREAS WHERE SOFT OR DISTURBED CONDITIONS ARE IDENTIFIED, EXCAVATE, REMOVE AND DISPOSE OF UNSUITABLE SOFT SPOT MATERIAL. IF THE MATERIAL IS SUITABLE EXCEPT FOR EXCESSIVE MOISTURE CONTENT, SCARIFY AND DRY THE MATERIAL TO THE ACCEPTABLE MOISTURE CONTENT, OR REPLACE WITH ENGINEER-APPROVED MATERIALS, AND RECOMPACT TO THE DENSITY OF THE MATERIAL TO PLACE OVER THE AREA. SOFT SPOT REPAIR SHALL BE INCIDENTAL TO THE WORK. NO SPECIAL PAYMENT WILL BE MADE FOR SOFT SPOT REPAIR.

56) GEOTECHNICAL ENGINEER TO SUBMIT A SUBGRADE INSPECTION REPORT NOTING THE MEANS AND METHODS USED TO PROOFROLL THE SUBGRADE AND ANY CORRECTIONS OR REPAIRS MADE.

57) IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER, CONSTRUCT THE BUILDING PAD WITH 3" MINUS AGGREGATE MEETING ODOT SECTION 006 REQUIREMENTS OR ENGINEER-APPROVED EQUIVALENT IN 6" MAXIMUM LOOSE LIFTS. MOISTURE CONDITION AND COMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR, ASTM D1557. CONSTRUCT TO THE ELEVATIONS SHOWN.

58) PREPARE THE PAD UNDER EACH FOOTING IN ACCORDANCE WITH DETAIL A2/C-510.1, FOUNDATION AT FOOTING.

VEHICULAR AND PEDESTRIAN ACCESS:

59) MAINTAIN CONTINUOUS VEHICULAR ACCESS TO ALL ACTIVE WASTEWATER TREATMENT FACILITIES, OPERATIONS AREAS, BUILDINGS, AND SERVICE YARDS DURING CONSTRUCTION. COORDINATE ALL ACCESS RESTRICTIONS WITH THE CITY OF PENDLETON OPERATIONS STAFF.

60) WHEN VEHICULAR ACCESS TO AN OPERATIONS AREA, BUILDING, OR SERVICE DRIVE MUST BE TEMPORARILY RESTRICTED, PROVIDE A MINIMUM OF FORTY-EIGHT (48) HOURS' ADVANCE NOTICE TO THE OWNER AND OBTAIN APPROVAL PRIOR TO IMPLEMENTING THE RESTRICTION. ACCESS RESTRICTIONS SHALL BE LIMITED TO NORMAL WORK HOURS UNLESS OTHERWISE APPROVED BY THE OWNER.

61) MAINTAIN UNOBSTRUCTED ACCESS AT ALL TIMES FOR EMERGENCY VEHICLES, OPERATIONS STAFF, MAINTENANCE VEHICLES, CHEMICAL DELIVERIES, SLUDGE HAULING, AND OTHER CRITICAL FACILITY FUNCTIONS.

62) MAINTAIN SAFE PEDESTRIAN ACCESS FOR FACILITY STAFF AND AUTHORIZED VISITORS THROUGH AND AROUND THE CONSTRUCTION AREA. CLEARLY DELINEATE PEDESTRIAN ROUTES USING BARRIERS, SIGNAGE, AND TRAFFIC CONTROL DEVICES AS REQUIRED.

63) WHEN AN EXISTING PEDESTRIAN ROUTE IS CLOSED OR ALTERED, PROVIDE A TEMPORARY ADA-COMPLIANT ACCESSIBLE ROUTE THAT ALLOWS PEDESTRIANS TO SAFELY BYPASS THE CONSTRUCTION AREA WITH MINIMAL OUT-OF-DIRECTION TRAVEL. TEMPORARY ROUTES SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

64) PROVIDE TRAFFIC CONTROL MEASURES AS REQUIRED TO SAFELY MANAGE CONSTRUCTION VEHICLES, FACILITY TRAFFIC, AND PEDESTRIAN MOVEMENT WITHIN THE SITE. TRAFFIC CONTROL DEVICES AND PROCEDURES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND OWNER REQUIREMENTS.

EXTERIOR CONCRETE:

65) NOTIFY THE ENGINEER A MINIMUM OF 48-HOURS AFTER THE COMPLETION OF FORMING OR ERECTING STRINGLINE(S) AND PRIOR TO THE PLACEMENT OF CONCRETE FOR CURBS OR SIDEWALKS. IF THE ENGINEER IS NOT NOTIFIED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH REPLACING CURB OR SIDEWALKS.

66) READY MIX CONCRETE - FURNISH READY MIX CONCRETE HAVING THE FOLLOWING PROPERTIES: [DELETE ROWS THAT DO NOT APPLY TO THE PROJECT]

CONSTRUCTION TYPE	MINIMUM COMPRESSIVE STRENGTH	MINIMUM CEMENT CONTENT	MAXIMUM WATER / CEMENT RATIO	AIR ENTRAINMENT PERCENTAGE	MAXIMUM SLUMP
LIGHT POLE, SIGN, FENCE FOUNDATIONS	3,000 PSI	560 LB/CY	0.49	6.5 ±1.5	4 ±1
CURBS, GUTTERS	4,000 PSI	560 LB/CY	0.44	6.5 ±1.5	2.5 ±1
NON-REINFORCED CONCRETE PAVEMENT	4,000 PSI	560 LB/CY	0.44	6.5 ±1.5	4 ±1
WALKING SURFACES – SIDEWALKS, PATIOS, DRIVEWAYS, STAIRS	4,500 PSI	564 LB/CY	0.44	6.5 ±1.5	4 ±1

A) FLY ASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT IN THE CONCRETE MIX. THE FLY ASH USED SHALL NOT EXCEED TWENTY FIVE PERCENT OF THE TOTAL CEMENT MATERIAL IN THE MIX. THE CEMENT MATERIAL IN THE MIX INCLUDES BOTH PORTLAND CEMENT AND FLY ASH. FLY ASH SHALL BE CLASS F CONFORMING TO AASHTO M 295 WITH THE ADDITIONAL REQUIREMENT THAT THE AVAILABLE ALKALIES IN THE FLY ASH SHALL NOT EXCEED 2 PERCENT.

B) READY-MIXED CONCRETE SHALL CONFORM TO THE PROVISIONS IN ASTM C 94 REGARDING BATCHING, MIXERS AND AGITATORS, MIXING AND DELIVERY, INSPECTION, CONSISTENCY AND AIR CONTENT, AND CERTIFICATION OF BATCHES.

67) CONCRETE JOINTS - SUBMIT FOR APPROVAL JOINTING PLAN PRIOR TO PLACING CONCRETE. IN HOT WEATHER CONDITIONS, SAW CUTTING MAY START AS SOON AS FOUR HOURS AFTER THE CONCRETE IS POURED. IN COOLER WEATHER, SAWING MAY NOT START FOR 12 HOURS AFTER POURING. CONDUCT TRIAL CUT TO DETERMINE WHETHER THE SLAB IS READY TO BE SAW CUT. IF CONCRETE RAVELING OCCURS, ADDITIONAL SET TIME IS REQUIRED. SAW CUT AS SOON AS RAVELING STOPS DURING THE TRIAL CUTS.

68) CONTRACTION JOINTS - SAWCUT CONTRACTION JOINTS EVERY 12 FEET ON CENTER, EACH WAY. SAW TO A DEPTH OF 1/3 THE SLAB DEPTH WITH ¼ INCH SAW BLADE.

69) EXPANSION JOINTS - INSTALL EXPANSION JOINTS EVERY 60 FEET ON CENTER, EACH WAY. USE PNA'S PD3 BASKET ASSEMBLY AT EACH EXPANSION JOINT, OR APPROVED EQUAL.

70) CONSTRUCTION JOINTS – INSTALL CONSTRUCTION JOINTS WHERE CONTINUOUS PLACEMENT STOPS FOR MORE THAN 1 HOUR. USE PNA'S DIAMOND DOWEL SYSTEM OR APPROVED EQUAL.

71) INSTALL CONTRACTION JOINTS IN CURBS EVERY 5 FEET.

72) FILL CONTRACTION, EXPANSION AND CONSTRUCTION JOINTS WITH JOINT FILLER MATERIAL.

73) FOR SIDEWALKS AND OTHER PEDESTRIAN AREAS, USE SEKA-FLEX 1C-SL OR APPROVED EQUAL.

MATERIAL TESTING REQUIREMENTS:

74) HIRE THE SERVCIES OF AN INDEPENDENT TESTING LABORATORY. QUALIFICATIONS OF TESTING COMPANY:

A) BASIC REQUIREMENTS OF ASTM E 329, "STANDARD SPECIFICATION FOR AGENCIES ENGAGED IN THE TESTING AND/OR INSPECTION OF MATERIALS AS USED IN CONSTRUCTION" AND ASTM D 3666, "STANDARD SPECIFICATION FOR MINIMUM REQUIREMENTS FOR AGENCY TESTING AND INSPECTING BITUMINOUS PAVING MATERIALS", AS APPLICABLE.

B) CALIBRATE TESTING EQUIPMENT AT REASONABLE INTERVALS BY DEVICES OF ACCURACY TRACEABLE TO EITHER THE NATIONAL BUREAU OF STANDARDS OR ACCEPTED VALUES OF NATURAL PHYSICAL CONSTANTS.

75) EARTHWORK - FREQUENCY OF COMPACTION TESTING:

A) CURBS AND SIDEWALKS: IN HORIZONTAL PLANE, TEST AT START WITH SUBSEQUENT TESTS A MAXIMUM OF EVERY 250 FEET. AT LANDSCAPE ISLANDS TEST EACH ISLAND AT ONE LOCATION. AT EVERY HORIZONTAL LOCATION, OBTAIN ONE TEST AT SUBGRADE. PERFORM SUBSEQUENT TESTS EVERY 12 INCHES OF COMPACTED DEPTH AND AT TOP OF BACKFILL OR WHEN MATERIALS OR PROCEDURES CHANGE. PERFORM A MINIMUM OF TWO (2) TESTS AT FINISHED GRADE.

B) PARKING AND VEHICLE AREAS, ROADWAYS: IN HORIZONTAL PLANE, TEST EACH BACKFILL AREA WITH SUBSEQUENT TEST FOR EVERY 2,500 SQUARE FEET OF BACKFILL SURFACE AREA. AT EVERY HORIZONTAL LOCATION, OBTAIN ONE TEST AT SUBGRADE. PERFORM SUBSEQUENT TESTS EVERY 12 INCHES OF COMPACTED DEPTH AND AT TOP OF BACKFILL OR WHEN MATERIALS OR PROCEDURES CHANGE.

C) CONCRETE SLABS FOR BUILDINGS, PATIOS, CONCRETE PLAZA, AND ENTRY SLABS: IN HORIZONTAL PLANE, TEST EACH BACKFILL AREA WITH SUBSEQUENT TEST FOR EVERY 1,000 SQUARE FEET OF BACKFILL SURFACE AREA. AT EVERY HORIZONTAL LOCATION, OBTAIN ONE TEST AT SUBGRADE. PERFORM SUBSEQUENT TESTS EVERY 12 INCHES OF COMPACTED DEPTH AND AT TOP OF BACKFILL OR WHEN MATERIALS OR PROCEDURES CHANGE.

D) LINEAR FOUNDATIONS AND FOOTINGS: IN HORIZONTAL PLANE, TEST AT START WITH SUBSEQUENT TESTS A MAXIMUM OF EVERY 100 FEET, AND WHERE ELEVATION CHANGES BETWEEN ADJACENT FOOTINGS. AT EVERY HORIZONTAL LOCATION, OBTAIN ONE TEST AT SUBGRADE. PERFORM SUBSEQUENT TESTS EVERY 12 INCHES OF COMPACTED DEPTH AND AT TOP OF BACKFILL OR WHEN MATERIALS OR PROCEDURES CHANGE. PERFORM A MINIMUM OF TWO (2) TESTS AT FINISHED GRADE.

76) PIPELINES AND TRENCHES - FREQUENCY OF COMPACTION TESTING:

A) TEST AT START OF TRENCH BACKFILL AND AT A MAXIMUM OF EVERY 200 LINEAR FEET PER LIFT, WITH ADDITIONAL TESTING AT STRUCTURE CONNECTIONS AND UNDER PAVEMENT AREAS.

77) IF TESTS INDICATE WORK DOES NOT MEET SPECIFIC COMPACTION REQUIREMENTS, REMOVE WORK, REPLACE, AND RETEST AT THE CONTRACTOR'S EXPENSE.

KELLER ASSOCIATES
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REGISTERED PROFESSIONAL ENGINEER
96662PE
Digitally Signed 2026.05.01 12:59:50-07'00'
OREGON
NOV. 11, 2020
ANGELA J. TAYLOR
EXPIRES: 06-30-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CIVIL GENERAL NOTES

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 13

FIGURE NO. C-002

PRINTED: 4/29/2026 11:14 AM
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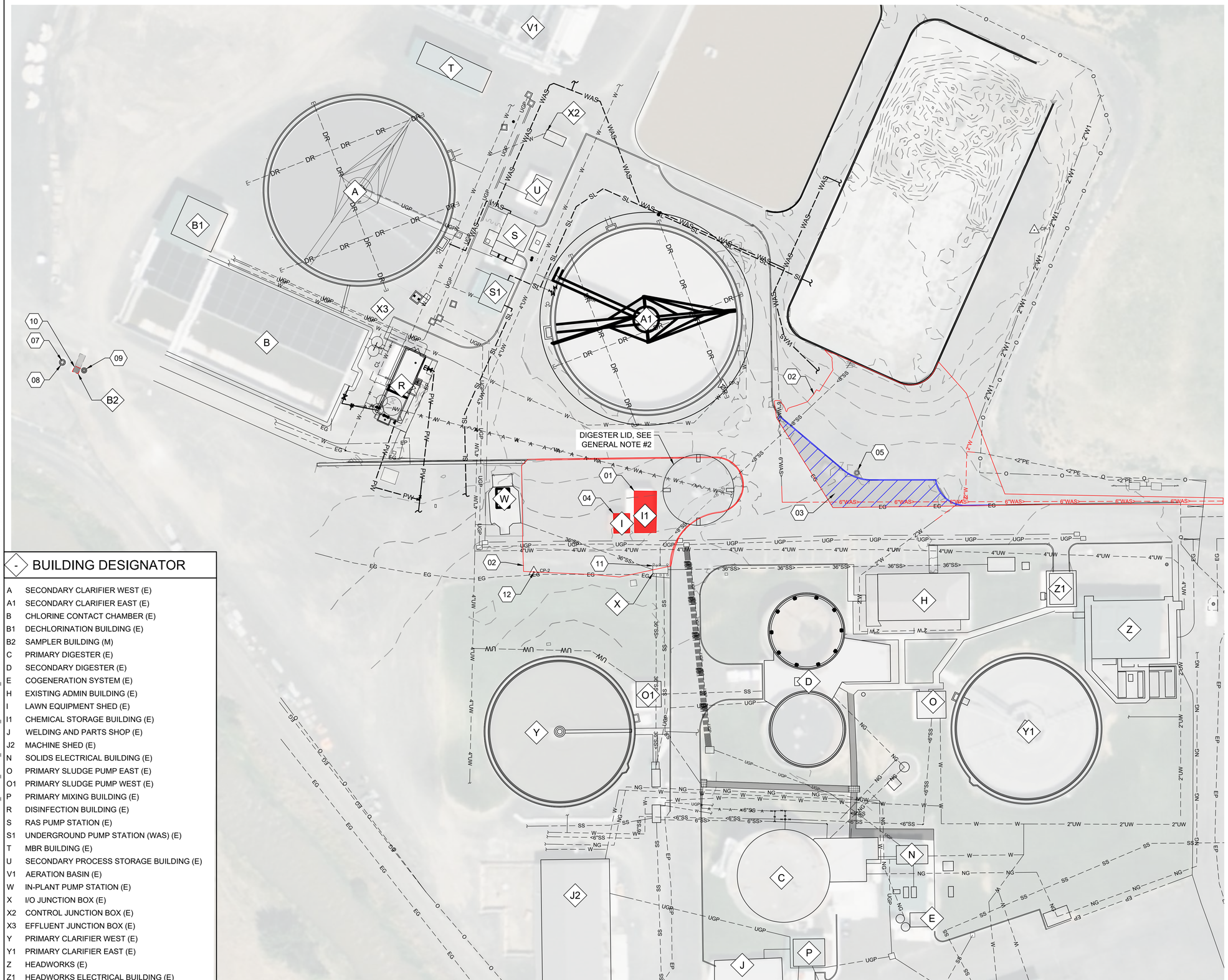
J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\06 GENERAL NOTES.DWG



BUILDING DESIGNATOR

A	SECONDARY CLARIFIER WEST (E)
A1	SECONDARY CLARIFIER EAST (E)
B	CHLORINE CONTACT CHAMBER (E)
B1	DECHLORINATION BUILDING (E)
B2	SAMPLER BUILDING (M)
C	PRIMARY DIGESTER (E)
D	SECONDARY DIGESTER (E)
E	COGENERATION SYSTEM (E)
H	EXISTING ADMIN BUILDING (E)
I	LAWN EQUIPMENT SHED (E)
I1	CHEMICAL STORAGE BUILDING (E)
J	WELDING AND PARTS SHOP (E)
J2	MACHINE SHED (E)
N	SOLIDS ELECTRICAL BUILDING (E)
O	PRIMARY SLUDGE PUMP EAST (E)
O1	PRIMARY SLUDGE PUMP WEST (E)
P	PRIMARY MIXING BUILDING (E)
R	DISINFECTION BUILDING (E)
S	RAS PUMP STATION (E)
S1	UNDERGROUND PUMP STATION (WAS) (E)
T	MBR BUILDING (E)
U	SECONDARY PROCESS STORAGE BUILDING (E)
V1	AERATION BASIN (E)
W	IN-PLANT PUMP STATION (E)
X	I/O JUNCTION BOX (E)
X2	CONTROL JUNCTION BOX (E)
X3	EFFLUENT JUNCTION BOX (E)
Y	PRIMARY CLARIFIER WEST (E)
Y1	PRIMARY CLARIFIER EAST (E)
Z	HEADWORKS (E)
Z1	HEADWORKS ELECTRICAL BUILDING (E)

0' 30' 60'
SCALE: 1"=30'

GENERAL SHEET NOTES

1. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. SEE UTILITY PLANS FOR MORE INFORMATION.
2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE MEANS AND METHODS TO EITHER PERFORM WORK AROUND THE DIGESTER LID OR MOVE LID AS NEEDED TO PERFORM REQUIRED WORK. LID SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS.

SHEET KEYNOTES

01	DEMO BUILDING WITH CURRENT NEW STORAGE BUILDING CONFIGURATION
02	DEMOLITION LIMITS
03	ASPHALT REMOVAL LIMITS
04	RELOCATE BUILDING; RE C-115-B2
05	RETAIN AND PROTECT EXISTING CACTUS
06	DEMOLISH EXISTING EFFLUENT SAMPLER SHED. RETAIN AND PROTECT EFFLUENT SAMPLER. RELOCATE SAMPLER TEMPORARILY DURING CONSTRUCTION OF NEW SHED SLAB. PROTECT AND REROUTE EXISTING ELECTRICAL AND CONTROLS CONDUITS FOR REUSE.
07	RETAIN AND PROTECT EXISTING 2'x2' GRATE
08	RETAIN AND PROTECT EXISTING WELL
09	RETAIN AND PROTECT EXISTING MANHOLE
10	RETAIN AND PROTECT EXISTING POWER AND CONTROLS CONDUITS. RELOCATE AS NEED FOR IMPROVEMENTS; RE: E-101-B2
11	RETAIN AND PROTECT EXISTING JUNCTION BOX AND BOLLARDS
12	RETAIN AND PROTECT EXISTING CONTROL MONUMENT.

LEGEND

- ASPHALT REMOVED AND REPLACED WITH GRAVEL BY OWNER
- CURB & GUTTER REMOVED BY OWNER
- DEMOLISH AND REMOVE ITEMS

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
NOV. 11, 2020
ANGELA J. TAYLOR
EXPIRES: 06-30-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

OVERALL DEMOLITION PLAN

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 14

FIGURE NO. C-110

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1102_CIVIL\DEMO.DWG
LAST SAVED: 4/29/2026 10:40 AM
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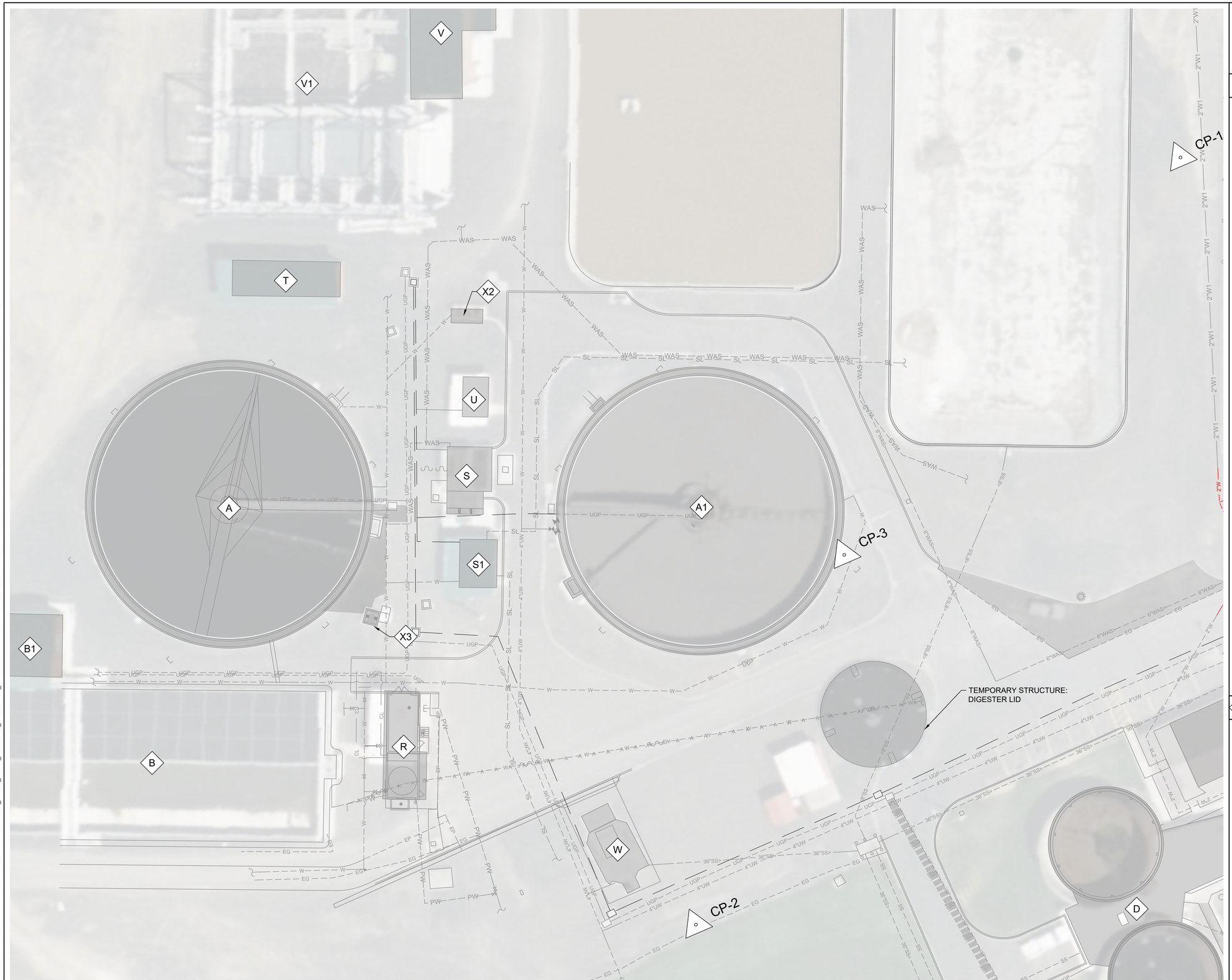

GENERAL NOTES

1. BASIS OF BEARING:
   NORTH WAS ESTABLISHED WITH GPS OBSERVATIONS USING THE OREGON STATE PLANES POLYCONIC (NORTH ZONE, NAD83 (OR83-NF)

   BASIS OF ELEVATION:
   THE VERTICAL DATUM FOR THIS SURVEY WAS ESTABLISHED USING GPS OBSERVATION OF CONTROL POINT CP-3 WITH ELEVATION OF 1005.02FT (NAD88)

2. EXISTING CONDITIONS SHOWN ARE DERIVED FROM SURVEY PROVIDED BY THE CITY OF PENDLETON IN JANUARY OF 2026, ALONG WITH A COLLECTION OF RECORD DRAWINGS.

4. FIELD WORK FOR THIS SURVEY WAS COMPLETED BY THE CITY OF PENDLETON IN DECEMBER 2025 AND JANUARY 2026.

5. THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY, AND SHOULD NOT BE REFERRED TO OR USED AS SUCH.

6. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.

CONTROL POINT TABLE

Point #	Northing	Easting	Elevation	NAME
5	734175.00	8627580.11	1009.44	CP1
6	733957.78	8627262.03	1006.71	CP2
7	734076.85	8627382.15	1005.02	CP3 AP

XX STRUCTURE DESIGNATORS

A	SECONDARY CLARIFIER WEST (E)
A1	SECONDARY CLARIFIER EAST (E)
B	CHLORINE CONTRACT CHAMBER (E)
B1	DECHLORINATION BUILDING (E)
D	SECONDARY DIGESTER (E)
R	DISINFECTION BUILDING (E)
S	RAS PUMP STATION (E)
S1	UNDERGROUND PUMP STATION (WAS) (E)
T	MBR BUILDING (E)
U	SECONDARY PROCESS STORAGE BUILDING (E)
V	SECONDARY PROCESS BUILDING (E)
V1	AERATION BASIN (E)
W	IN-PLANT PUMP STATION (E)
X2	CONTROL JUNCTION BOX (E)
X3	EFFLUENT JUNCTION BOX (E)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

EXISTING CONDITIONS AND SURVEY CONTROL

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 15

FIGURE NO. C-111

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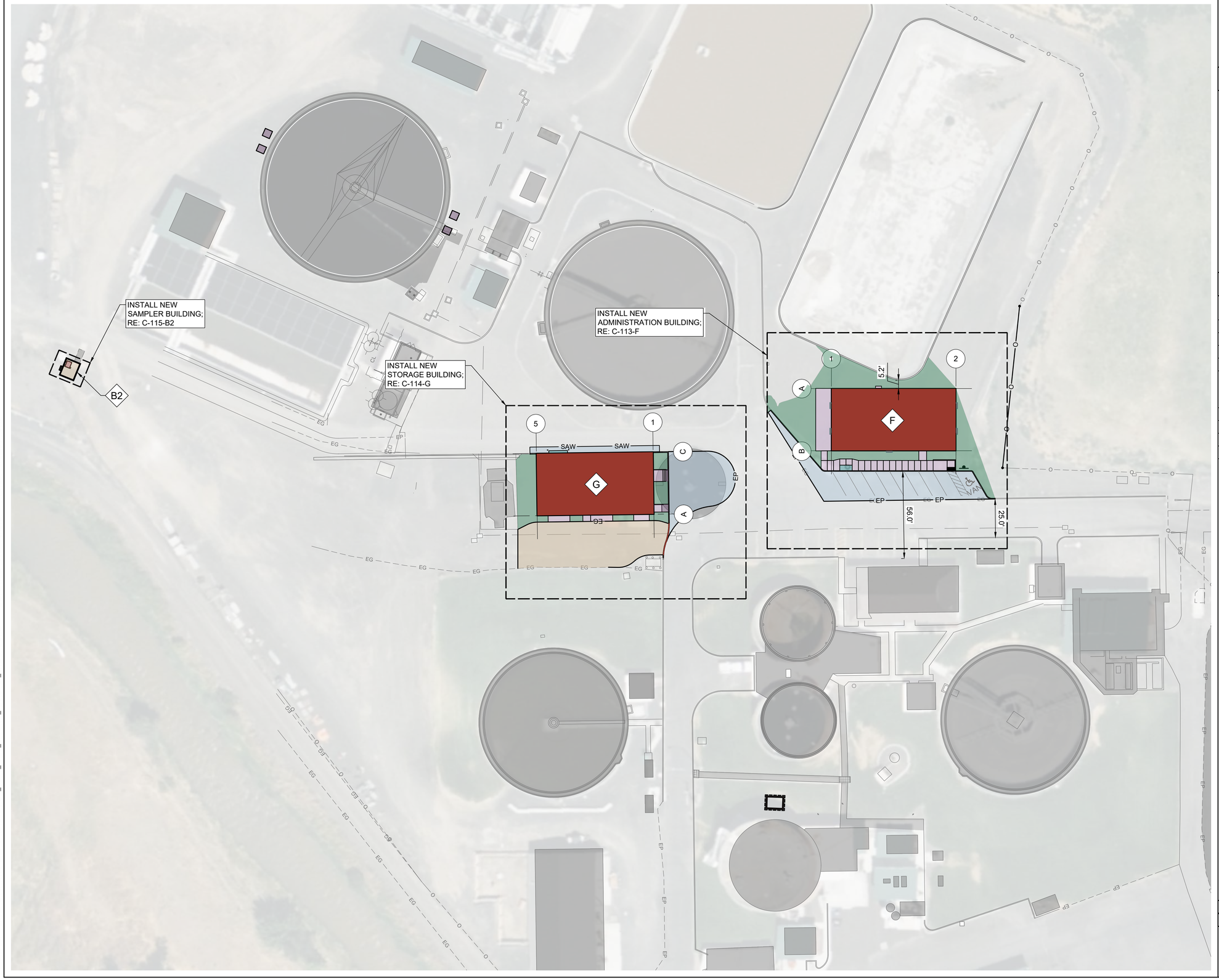
J:\225096-001 - PENDLETON WWTRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\EXISTING CONDITION AND SURVEY CONTROL.DWG



0' 30' 60'
SCALE: 1"=30'

GENERAL SHEET NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE MEANS AND METHODS TO EITHER PERFORM WORK AROUND THE DIGESTER LID OR MOVE LID AS NEEDED TO PERFORM REQUIRED WORK. LID SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS.

BUILDING DESIGNATORS

F ADMIN FACILITY

INTERSECTION	NORTHING	EASTING
GRID A-1 - BLDG F	734071.0931	8627456.9400
GRID B-1 - BLDG F	734031.0931	8627456.9400
GRID A-2 - BLDG F	734071.1764	8627537.0233
GRID B-2 - BLDG F	734031.0927	8627536.9403

G STORAGE BUILDING

INTERSECTION	NORTHING	EASTING
GRID A-5 - BLDG G	733989.3546	8627267.9015
GRID B-5 - BLDG G	734029.3542	8627267.3873
GRID B-1 - BLDG G	734030.3139	8627342.3841
GRID A-1 - BLDG G	733990.3177	8627342.8956

- BUILDING DESIGNATOR

B2 SAMPLER BUILDING (M)
F ADMINISTRATION BUILDING (N)
G STORAGE BUILDING (N)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

OVERALL SITE PLAN

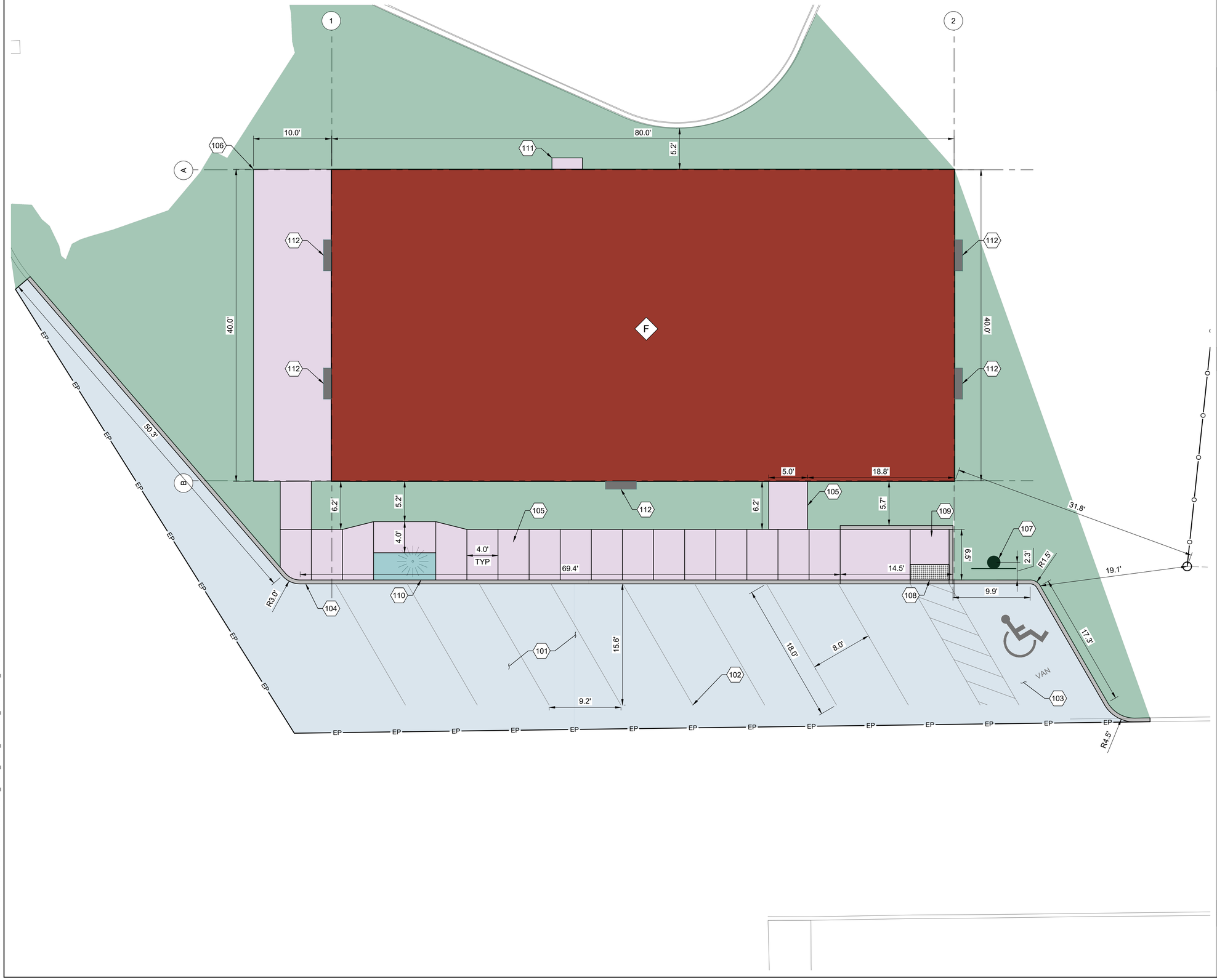
DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 16

FIGURE NO. C-112

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\SITE.DWG LAST SAVED: 4/29/2026 6:46 AM PRINTED: 4/29/2026 11:15 AM



0' 6' 12'
SCALE: 1"=6"

GENERAL SHEET NOTES

1. PROVIDE SUBSURFACE VENT WELL(S) FOR FOUNDATION VENTILATION AT LOCATIONS INDICATED. SYSTEM SHALL INCLUDE WELL CASING, DRAINAGE AGGREGATE, AND VANDAL-RESISTANT STEEL GRATE. CONTRACTOR SHALL COORDINATE FINAL VENT WELL DIMENSIONS AND MATERIALS TO MEET MINIMUM AIRFLOW REQUIREMENTS INDICATED ON STRUCTURAL DRAWINGS.
2. CONTRACTOR TO CONFIRM SIDEWALK LAYOUT AROUND EXISTING CACTUS MONUMENT BEFORE CONSTRUCTION.

SHEET KEYNOTES

101 SAWCUT AND INSTALL LIGHT DUTY ASPHALT; RE: C1001/C-500

102 INSTALL 8 TOTAL 9' X 18' PARKING STALLS

103 INSTALL 1 TOTAL 11' X 18' HANDICAP STALL

104 INSTALL TYPE C CURB; RE: C-501

105 INSTALL COMMERCIAL SIDEWALK; RE: STD DTL 206/C-510

106 INSTALL 10' X 40' CONCRETE PATIO; RE: C1422/C-500

107 INSTALL HANDICAP SIGN; RE: C8011/C-500

108 INSTALL CAST IRON TRUNCATED DOMES; RE: C1500/C-500

109 INSTALL ADA RAMP; RE: C1520 & C1521/C-500

110 INSTALL SIDEWALK AROUND EXISTING CACTUS MONUMENT; RE: C1422/C-500

111 INSTALL CONCRETE PAD FOR HVAC EQUIPMENT; RE: C1422/C-500

112 INSTALL SUBSURFACE VENT WELL

BUILDING DESIGNATOR

F ADMINISTRATION BUILDING (N)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING SITE PLAN

DRAWN: BAJ | CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 17

FIGURE NO. C-113-F

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J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\SITE.DWG

GENERAL SHEET NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE MEANS AND METHODS TO EITHER PERFORM WORK AROUND THE DIGESTER LID OR MOVE LID AS NEEDED TO PERFORM REQUIRED WORK. LID SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS, RE: SPEC SECTION 01 35 13 SPECIAL PROJECT PROCEDURES
2. EXTERIOR GRADE, CONCRETE, AND ASPHALT MAY NOT BE COMPLETED UNTIL THE DIGESTER LID HAS BEEN INSTALLED OR MOVED FROM THIS LOCATION. CONTRACTOR MAY BE REQUIRED TO REMOBILIZE TO FINISH WORK. COORDINATE SCHEDULE WITH OWNER AND OTHER PLANNED IMPROVEMENTS AT THE SITE, RE: SPEC SECTION 01 35 13 SPECIAL PROJECT PROCEDURES.

SHEET KEYNOTES

101 SAWCUT AND INSTALL LIGHT DUTY ASPHALT; RE: C1001/C-500

104 INSTALL TYPE C CURB; RE: C-510

114 INSTALL CONCRETE SLAB FOR ENTRY DOOR, ADD HANDRAIL AS SHOWN ON PLANS; RE: C0116 & C1422/C-500

115 INSTALL BOLLARD; RE: C0120/C-500

116 INSTALL PAVEMENT TO MATCH EXISTING ASPHALT LIMITS

117 EXISTING 45'Ø DIGESTER LID LIMITS, APPROXIMATE 50K LBS

118 INSTALL 6" DEEP 3/4" MINUS CRUSHED ROCK AGGREGATE GRAVEL SURFACING

LEGEND

INSTALL FLUSH CURB

INSTALL TRANSITION CURB

BUILDING DESIGNATOR

G NEW STORAGE BUILDING (N)

0' 6' 12'
SCALE: 1"=6'

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW STORAGE BUILDING SITE PLAN

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 18

FIGURE NO. C-114-G

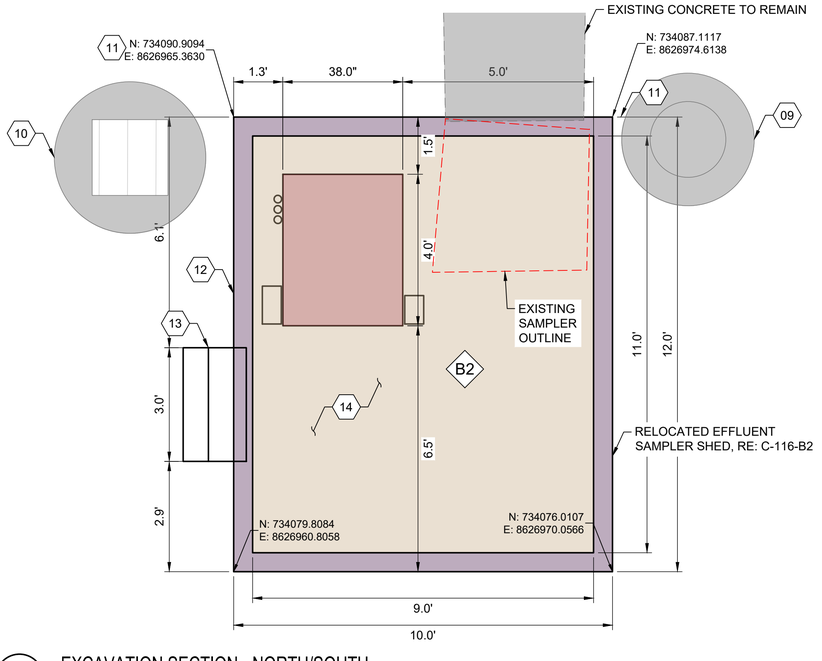
J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1102_CIVILSITE.DWG LAST SAVED: 4/29/2026 6:46 AM PRINTED: 4/29/2026 11:15 AM

B1 PHOTO - EXISTING SAMPLER LOCATION

N.T.S.

B5 PHOTO - EXISTING SAMPLER INTERIOR

N.T.S.



A1 EXCAVATION SECTION - NORTH/SOUTH

SCALE: 1"=2'

0' 2' 4'

SCALE: 1"=2'

0' 15' 30'

SCALE: 1"=15'

GENERAL SHEET NOTES

1. IRRIGATION CONTROLLER, REMOVE AND REINSTALL IN NEW SHED; RE: E-101-B2
2. TEMPERATURE GAUGE, REMOVE AND REINSTALL IN NEW SHED; RE: E-101-B2
3. SAMPLER CONTROLLER, REMOVE AND REINSTALL IN NEW SHED; RE: C-115-B2
4. EFFLUENT SAMPLER, REMOVE AND REINSTALL IN NEW SHED; RE: C-115-B2
5. ELECTRICAL OUTLETS, LIGHT AND EQUIPMENT, REMOVE AND REINSTALL; RE=101-B2
6. DEMOLISH AND HAUL WAY OLD SHED; RE: C-110
7. FOLDING TABLE, REMOVE AND REINSTALL IN NEW SHED; RE: C-115-B2
8. EFFLUENT SAMPLE WELL, RETAIN AND PROTECT. EXTEND UP WITH COUPLING AND PIPE THROUGH NEW SLAB; RE: C-115-B2
9. EXISTING MANHOLE, RETAIN AND PROTECT
10. EXISTING WELL, RETAIN AND PROTECT
11. CORNER STAKES FOR NEW SHED, TYP (2)
12. OUTLINE OF RELOCATED SHED LOCATION
13. PRE-MANUFACTURED GALVANIZED METAL STAIRS, TWO TREADS AND 36" WIDE, NON-SLICK TREAD. SELECTION BY THE CONTRACTOR. INSTALL LEVEL, PROVIDE AGGREGATE AS NEEDED. APPROVAL BY OWNER PRIOR TO PURCHASE IN ACCORDANCE WITH SPECIFICATIONS.
14. PLACE AND COMPACT 6" OF CLASS II 3/4" MINUS AGGREGATE BASE. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557.

- BUILDING DESIGNATOR

B2 SAMPLER BUILDING (M)

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SEP. 13, 2021
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

EFFLUENT SAMPLER SHED

DRAWN: BJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 19

FIGURE NO. C-115-B2

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1102_CIVIL\SAMPLER SITE.DWG LAST SAVED: 4/29/2026 11:03 AM PRINTED: 4/29/2026 11:16 AM

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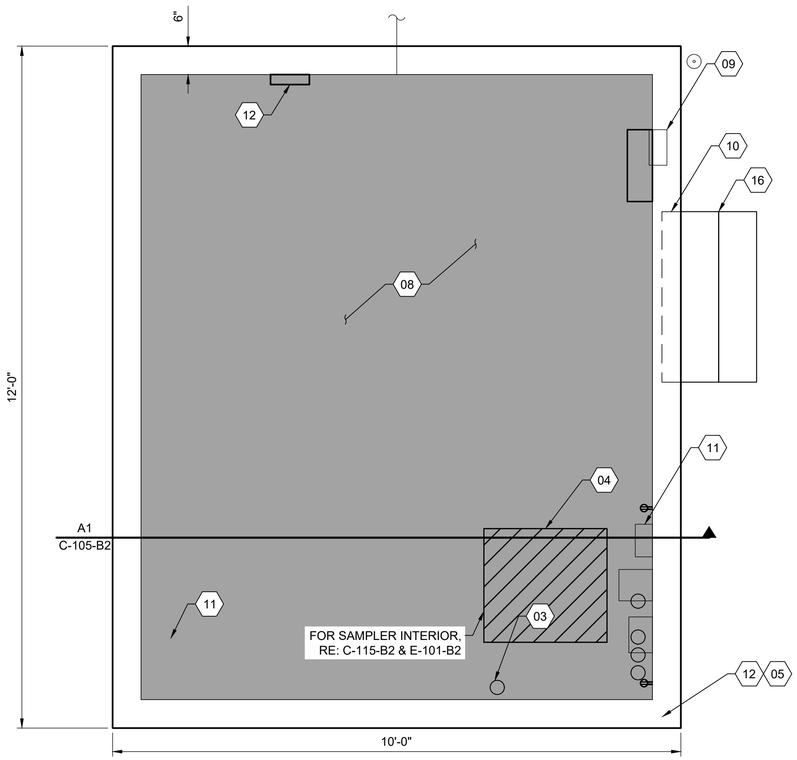
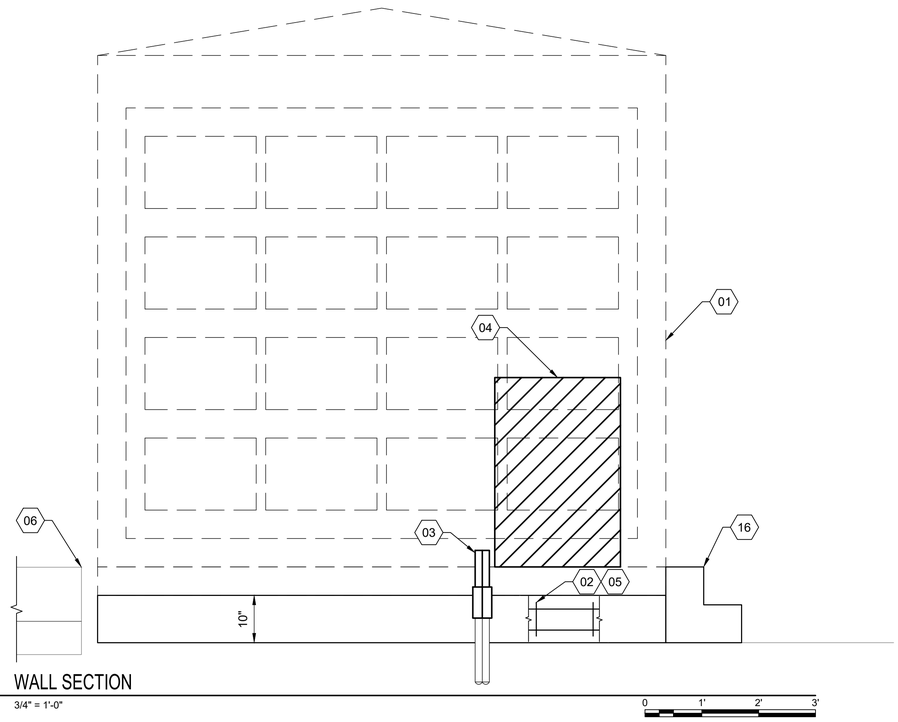


B1 WALL PLAN
3/4" = 1'-0"
0 1' 2' 3'

B2 PHOTO
N.T.S.



A1 WALL SECTION
3/4" = 1'-0"
0 1' 2' 3'

GENERAL SHEET NOTES

1. COORDINATE WITH OWNER BEFORE RELOCATING EXISTING SHED.
2. TEMPORARILY RELOCATE EXISTING EFFLUENT SAMPLER PRIOR TO DOING WORK. SHALL REMAIN IN OPERATIONS DURING CONSTRUCTION.
3. CONTRACTOR RESPONSIBLE TO CONFIRM ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK.
4. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONDUIT, WIRE AND HARDWARE TO COMPLETE THE WORK AS OUTLINED IN THE PLANS.

SHEET KEYNOTES

01 INSTALL EXISTING 09X11 SHED IN NEW LOCATION ON TOP OF RING WALL

02 09"HX6"T RING WALL. VERTICAL BAR, PROVIDE TWO #5 BAR 11" OC.

03 CONNECT TO EXISTING PIPE SLEEVE AND EXTENT INTO NEW SHED DECK. DRILL DECK AS NEEDED.

04 REINSTALL AUTO SAMPLER INCLUDING CONTROLS

05 CONFIRM SHED DECK DIMENSIONS PRIOR TO CONSTRUCTION OF RING WALL.

06 EXISTING MANHOLE RING AND LID. FINISH DECK HEIGHT TO MATCH TOP OF LID.

07 09"HX6"T RING WALL. HORIZONTAL BAR, PROVIDE TWO #5 BAR 2" OC. BAR TO BE PROVIDED FOR ENTIRETY OF RING WALL.

08 3/4" MINUS FILL MATERIAL COMPACTED TO 95% PROCTOR

09 LOCATION OF EXISTING DISTRIBUTION PANEL FOR LIGHT AND HEATER. CONNECT TO POWER AT THIS NEW LOCATION.

10 EXISTING MANDOOR, APPROX LOCATION.

11 RELOCATE EXISTING POWER AND CONTROL BOXES TO INTERIOR WALL; RE: ES-091. DRILL WOOD DECK AS NEEDED AT NEW LOCATION, TYP

12 RELOCATE IRRIGATION CONTROLLER TO NEW LOCATION.

13 ANCHOR SHED TO CONCRETE RING WALL, UTILIZE WEDGE ANCHOR OR SIMILAR. EMBED LENGTH 4" MINIMUM. INSTALL ONE NEAR EACH CORNER OF THE BUILDING, TYP (4)

14 EXISTING SHED PANEL. RETAIN AND PROTECT.

15 EXISTING SHED POWER FEED CABLE. DISCONNECT AND RECONNECT AT NEW SHED LOCATION.

16 PRE-MANUFACTURED GALVANIZED METAL STAIRS, TWO TREADS AND 36" WIDE, NON-SLICK TREAD. SELECTION BY THE CONTRACTOR. INSTALL LEVEL, PROVIDE AGGREGATE AS NEEDED. APPROVAL BY OWNER PRIOR TO PURCHASE.

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

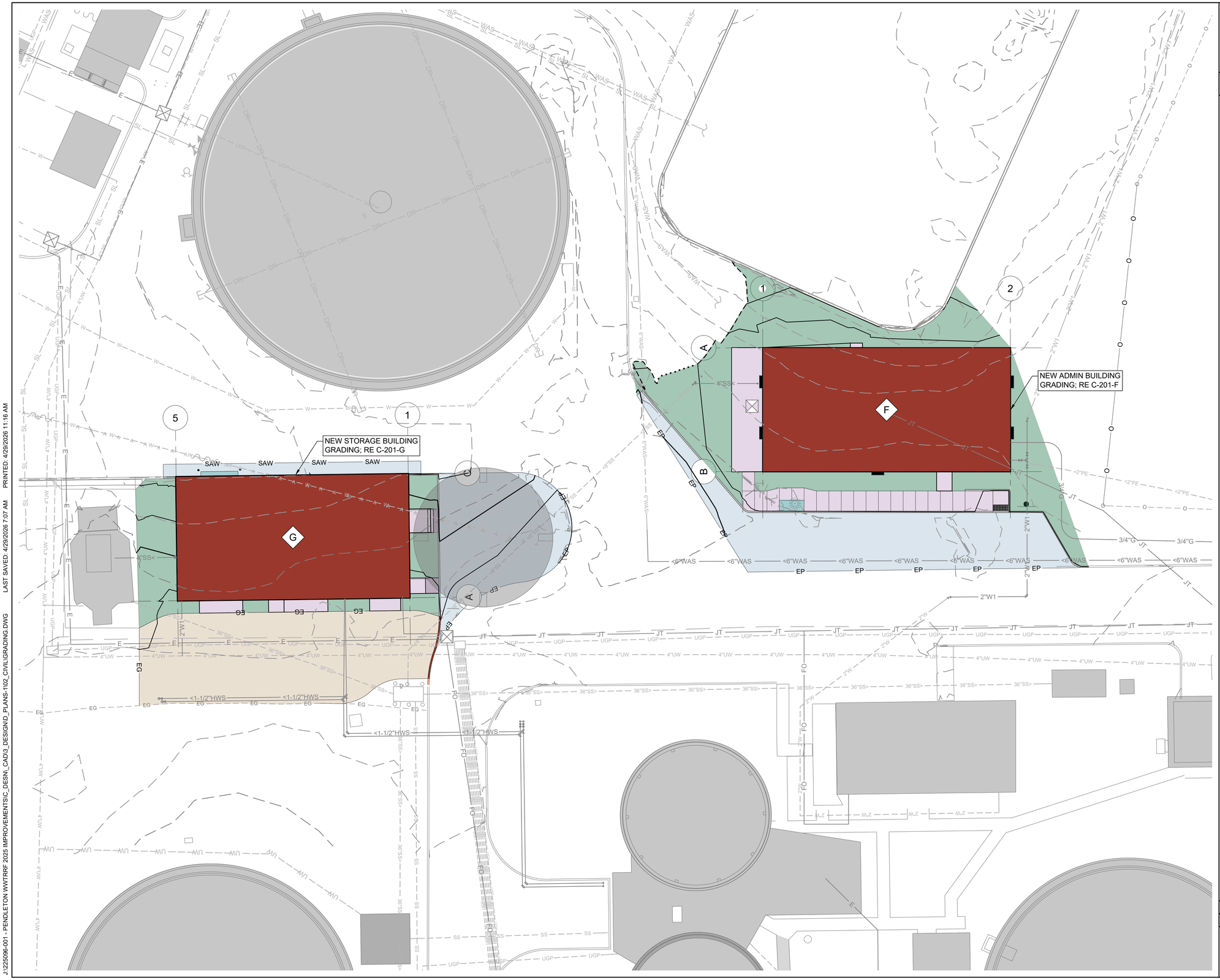
EFFLUENT SAMPLER SHED

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 20

FIGURE NO. C-116-B2



0' 15' 30'
SCALE: 1"=15'

GENERAL SHEET NOTES

1. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. SEE UTILITY PLANS FOR MORE INFORMATION.
2. FURNISH MATERIALS WHERE "INSTALL", "PLACE" OR "CONSTRUCT" IS REQUIRED UNLESS NOTED OTHERWISE.
3. AREAS DISTURBED BY CONSTRUCTION WHERE SURFACE REPAIR IS NOT INDICATED SHALL BE RESTORED TO CONDITIONS FOUND PRIOR TO CONSTRUCTION. THIS COST SHALL BE INCIDENTAL TO THE CONTRACT.

- BUILDING DESIGNATOR

F ADMINISTRATION BUILDING (N)

G STORAGE BUILDING (N)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

OVERALL GRADING PLAN

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 21

FIGURE NO. C-200

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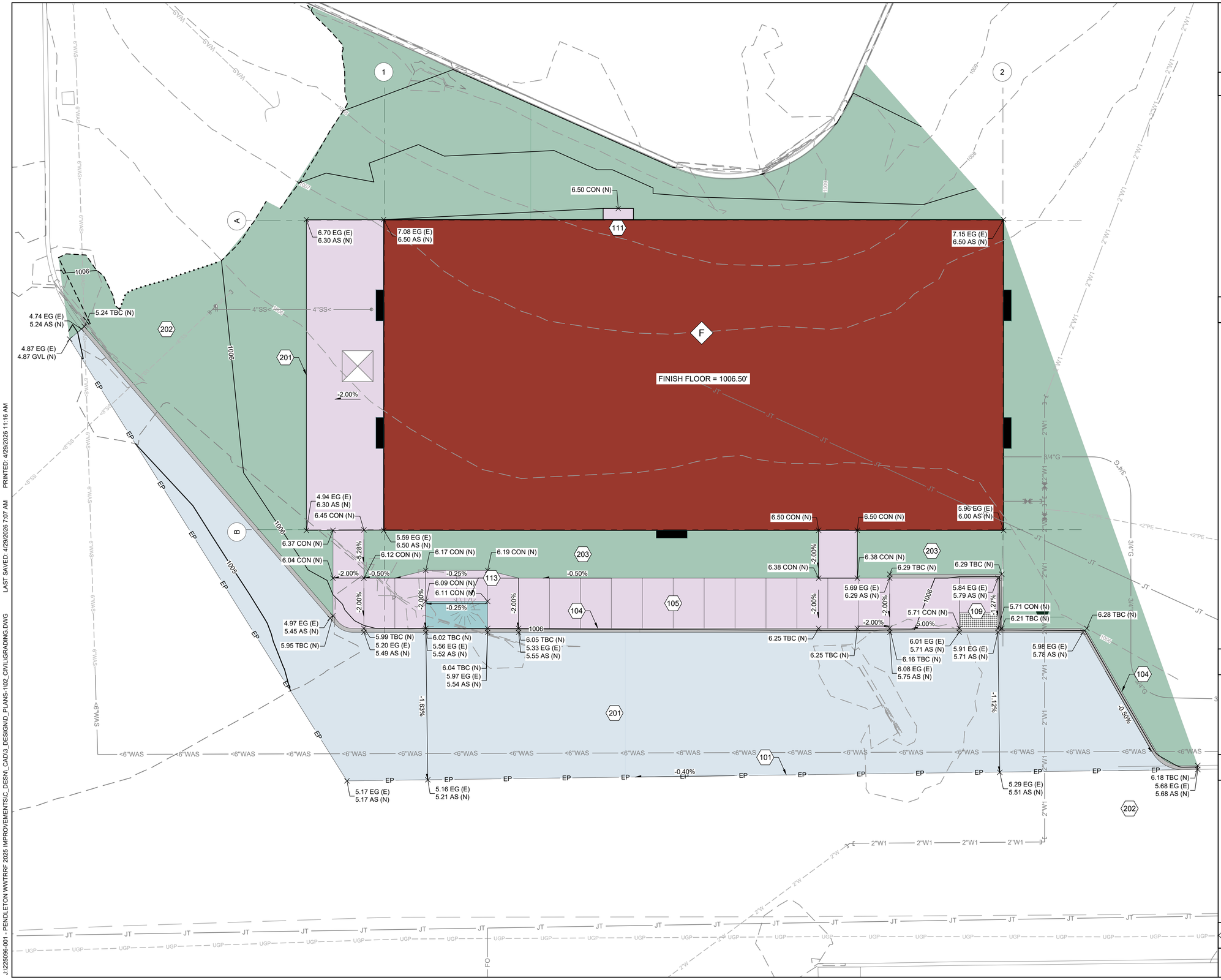

0' 6' 12'
SCALE: 1"=6"

GENERAL SHEET NOTES

1. REFER TO SHEET C-111 EXISTING CONDITIONS AND SURVEY CONTROL FOR CONTROL POINTS.
2. AREAS DISTURBED BY CONSTRUCTION WHERE SURFACE REPAIR IS NOT INDICATED SHALL BE RESTORED TO CONDITION PRIOR TO CONSTRUCTION.
3. FURNISH MATERIALS WHERE INSTALL, PLACE OR CONSTRUCT IS REQUIRED, UNLESS OTHERWISE NOTED.
4. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
5. OWNER SHALL KEEP SITE CLEAN OF DEBRIS AND PROVIDE DUST CONTROL DURING ENTIRE DURATION OF PROJECT AS TO NOT INTERFERE WITH PLANT OPERATIONS.

SHEET KEYNOTES

101	INSTALL LIGHT DUTY ASPHALT; RE: C1001/C-500
104	INSTALL TYPE C CURB; RE: CITY OF PENDELTON STD DTL 205/C-510
105	INSTALL COMMERCIAL SIDEWALK; RE: CITY OF PENDELTON STD DTL 206/C-510
109	INSTALL ADA RAMP; RE: C1520 & C1521/C-500
111	INSTALL CONCRETE PAD FOR HVAC EQUIPMENT; RE: C1422/C-500
113	RETAIN AND PROTECT EXISTING CACTUS
201	INSTALL 10' X 40' CONCRETE PATIO PAD; RE: C1422/C-500
202	CONNECT TO EXISTING CURB AND GUTTER, PROVIDE 5' TRANSITION
203	PROVIDE LANDSCAPING TURF OR SOD

ABBREVIATIONS

AS - ASPHALT PAVEMENT
CON - CONCRETE
EG - EXISTING GRADE
EP - EDGE OF PAVEMENT
GVL - GRAVEL
GT - TOP OF GRATE
TBC - TOP BACK OF CURB
VT - TOP OF VAULT

LEGEND

ELEVATION 1000 + THE NUMBER SHOWN
04.39 GV (E)
04.50 AS (N)
ELEVATION LOCATION
(E) EXISTING ELEVATION
(N) CONSTRUCT TO NEW ELEVATION
DESCRIPTION OF MATERIAL

BUILDING DESIGNATOR

F ADMINISTRATION BUILDING (N)

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
96662PE
Digitally Signed 2026.05.01 21:04:38-07'00'
OREGON
NOV. 11, 2020
ANGELA J. TAYLOR
EXPIRES: 06-30-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING GRADING PLAN

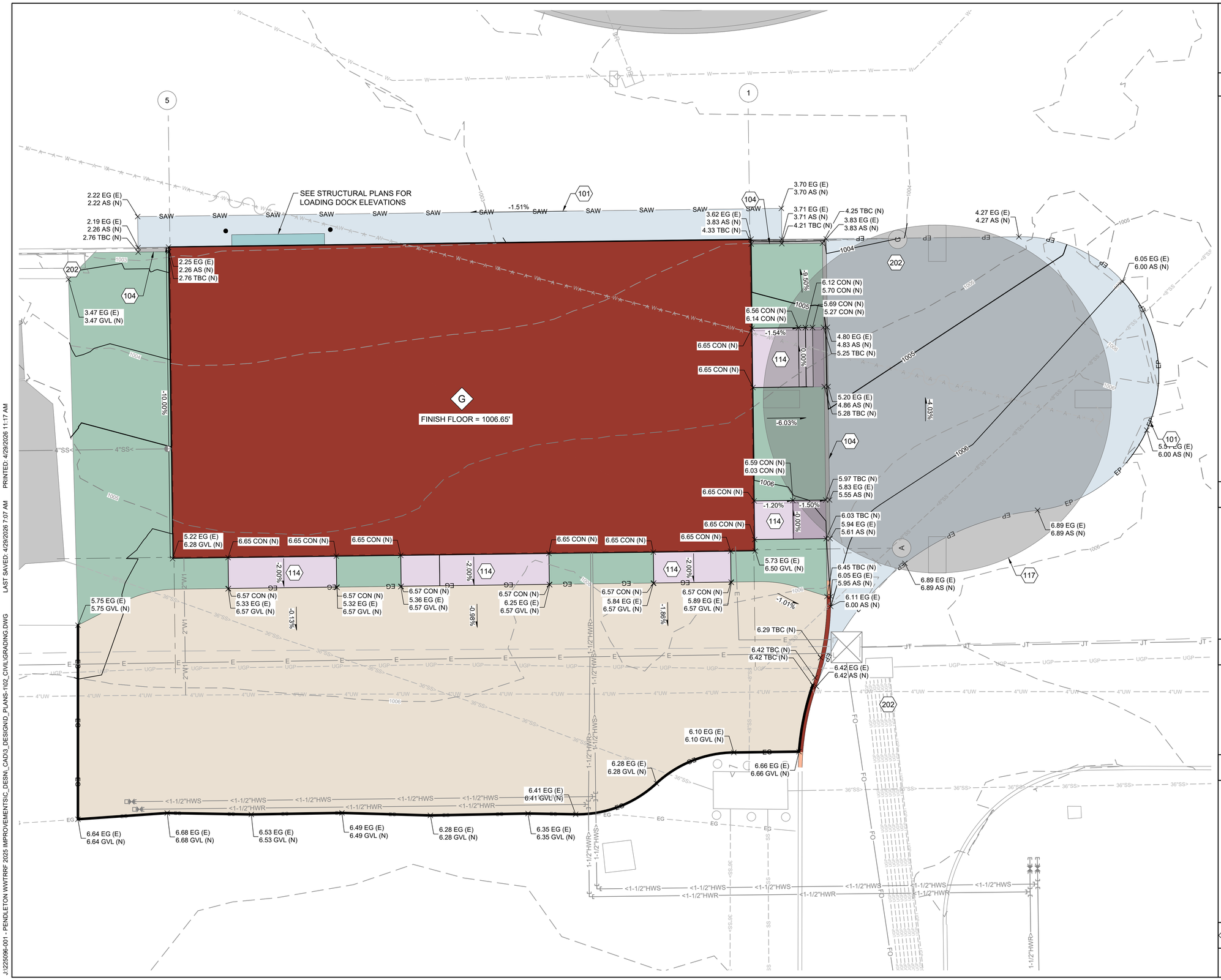
DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 22

FIGURE NO. C-201-F

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\GRADING.DWG LAST SAVED: 4/29/2026 7:07 AM PRINTED: 4/29/2026 11:16 AM



0' 6' 12'
SCALE: 1"=6"

GENERAL SHEET NOTES

1. REFER TO SHEET C-111 EXISTING CONDITIONS AND SURVEY CONTROL FOR CONTROL POINTS.
2. AREAS DISTURBED BY CONSTRUCTION WHERE SURFACE REPAIR IS NOT INDICATED SHALL BE RESTORED TO CONDITION PRIOR TO CONSTRUCTION.
3. FURNISH MATERIALS WHERE INSTALL, PLACE OR CONSTRUCT IS REQUIRED, UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE MEANS AND METHODS TO EITHER PERFORM WORK AROUND THE DIGESTER LID OR MOVE LID AS NEEDED TO PERFORM REQUIRED WORK. LID SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS; RE: SPEC SECTION 01 35 13 SPECIAL PROJECT PROCEDURES.
5. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
6. OWNER SHALL KEEP SITE CLEAN OF DEBRIS AND PROVIDE DUST CONTROL DURING ENTIRE DURATION OF PROJECT AS TO NOT INTERFERE WITH PLANT OPERATIONS.
7. EXTERIOR GRADE, CONCRETE, AND ASPHALT MAY NOT BE COMPLETED UNTIL THE DIGESTER LID HAS BEEN INSTALLED OR MOVED FROM THIS LOCATION. CONTRACTOR MAY BE REQUIRED TO REMOBILIZE TO FINISH WORK. COORDINATE SCHEDULE WITH OWNER AND OTHER PLANNED IMPROVEMENTS AT THE SITE; RE: SPEC SECTION 01 35 13 SPECIAL PROJECT PROCEDURES.

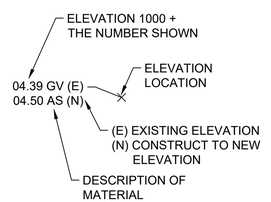
SHEET KEYNOTES

101	INSTALL LIGHT DUTY ASPHALT; RE: C1001/C-500
104	INSTALL LIGHT DUTY ASPHALT; RE: C1001/C-500
114	INSTALL CONCRETE SLAB FOR ENTRY DOOR, ADD HANDRAIL AS SHOWN ON PLANS; RE: C0116 & C1422/C-500
117	EXISTING DIGESTER LID LIMITS
202	CONNECT TO EXISTING CURB AND GUTTER, PROVIDE 5' TRANSITION

ABBREVIATIONS

AS - ASPHALT PAVEMENT
CON - CONCRETE
EG - EXISTING GRADE
EP - EDGE OF PAVEMENT
GVL - GRAVEL
GT - TOP OF GRATE
MA - MATCH EXISTING GRADE
TBC - TOP BACK OF CURB
VT - TOP OF VAULT

LEGEND



BUILDING DESIGNATOR

G	NEW STORAGE BUILDING (N)

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(509) 940-2080

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW STORAGE BUILDING GRADING PLAN

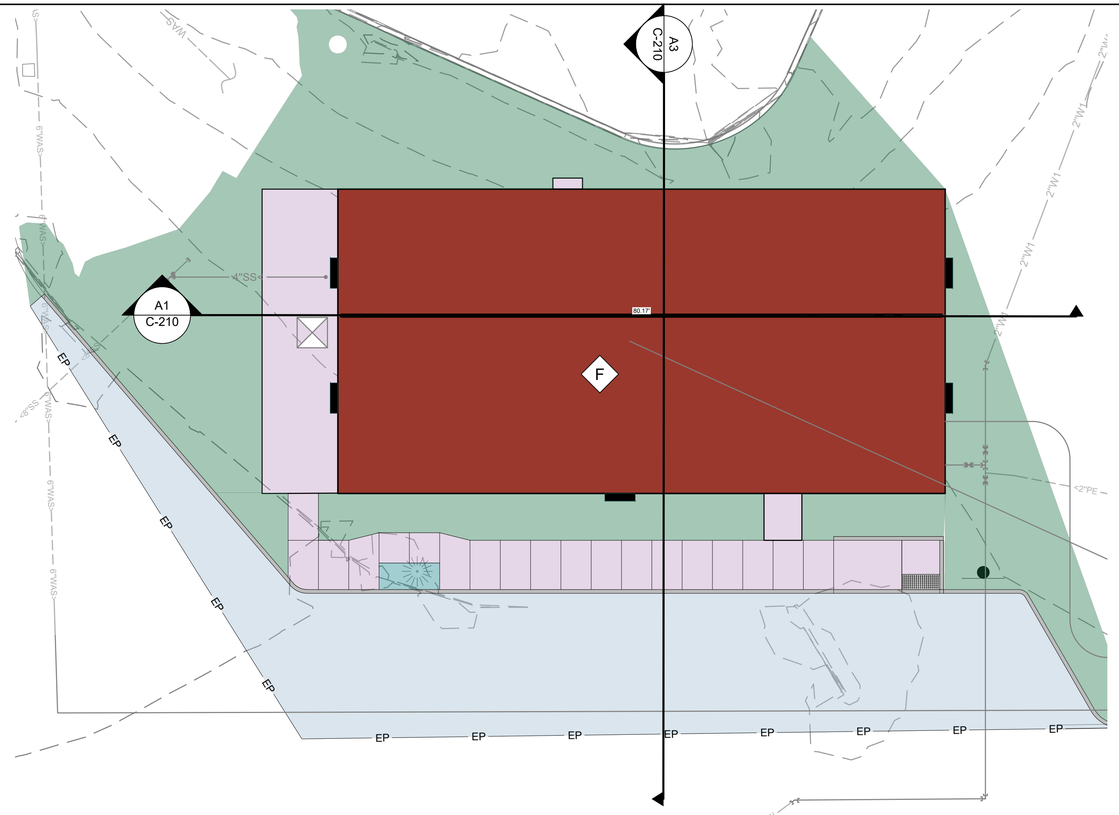
DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 23

FIGURE NO. C-201-G

J:\225096-001 - PENDLETON WWTRF 2025 IMPROVEMENTS\C_DESIN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\GRADING.DWG LAST SAVED: 4/29/2026 7:07 AM PRINTED: 4/29/2026 11:17 AM

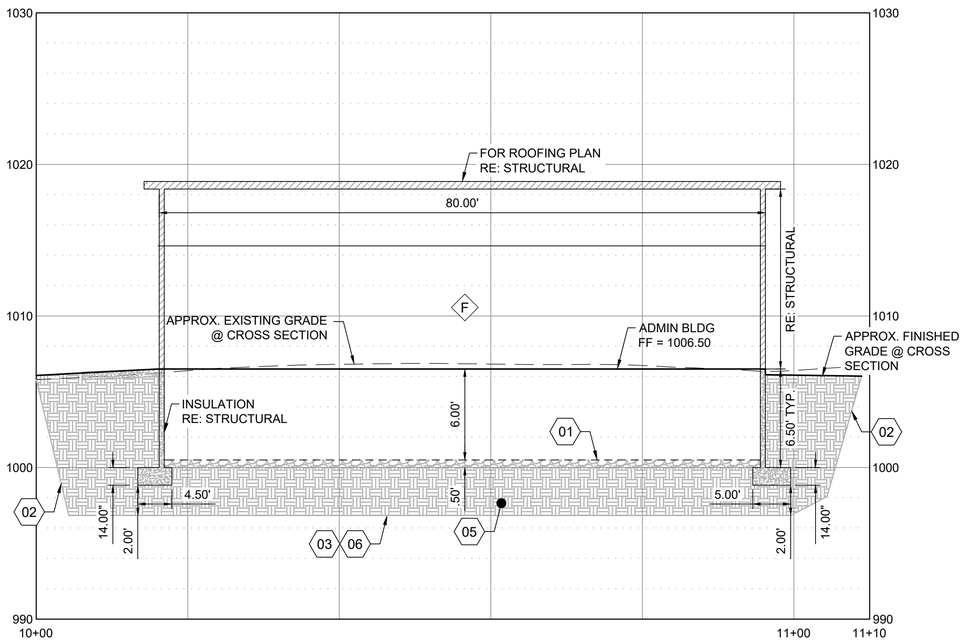


BLDG F - NEW ADMIN PLAN VIEW

SCALE: 1"=10'

0' 10' 20'

SCALE: 1"=10'

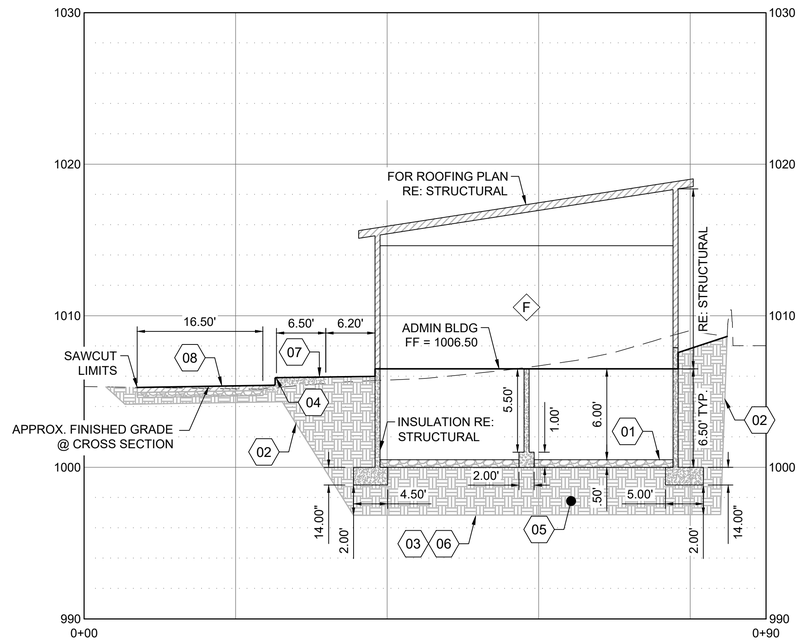


A1 EXCAVATION SECTION - NORTH/SOUTH

SCALE: 1"=10'

0' 10' 20'

SCALE: 1"=10'



A3 EXCAVATION SECTION - EAST/WEST

SCALE: 1"=10'

0' 10' 20'

SCALE: 1"=10'

SHEET KEYNOTES

01 INSTALL UNDER FOOTINGS AND SLABS, 12" OF CLASS II AGGREGATE BASE. COMPACT TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557. MAXIMUM LOOSE LIFT THICKNESS SHALL NOT EXCEED 6", RE: SPECIFICATION 31 00 00.

02 SLOPE AND/OR SHORE IN ACCORDANCE WITH CAL/OSHA REQUIREMENTS

03 COMPACT SUBGRADE TO 1-FOOT DEPTH. COMPACT TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557.

04 INSTALL CURB AND GUTTER, RE: CITY OF PENDELTON STD 205/C-510

05 BACKFILL WITH COMMON FILL. COMPACT TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557. MAXIMUM LOOSE LIFT THICKNESS SHALL NOT EXCEED 6"

06 PLACE SEPARATION DRAINAGE GEOTEXTILE

07 INSTALL SIDEWALK, RE: CITY OF PENDELTON STD 209/C-510

08 INSTALL ASPHALT, RE: C-1001/C-500

GRAPHIC SCALE

HORIZ: 0' 10' 20' SCALE: 1"=10'

VERT: 0' 5' 10' SCALE: 1"=5'

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING EXCAVATION SECTIONS

DRAWN: JH CHECK: AT

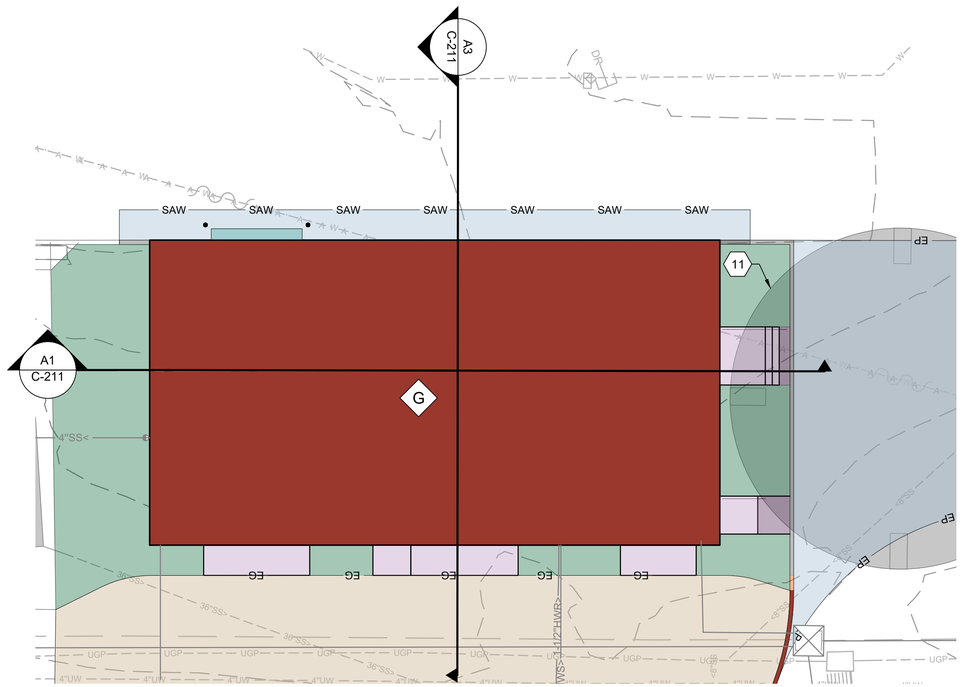
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 24

FIGURE NO. C-211-F

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\EXCAVATION PLAN.DWG LAST SAVED: 4/28/2026 5:45 PM PRINTED: 4/29/2026 11:17 AM

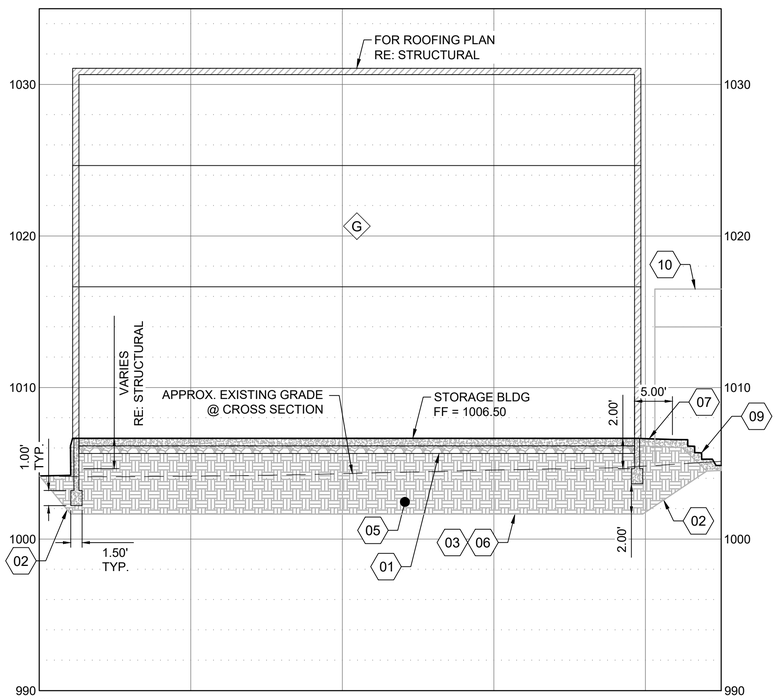


BLDG G - [NEW STORAGE] PLAN VIEW

SCALE: 1"=10'

0' 10' 20'

SCALE: 1"=10'

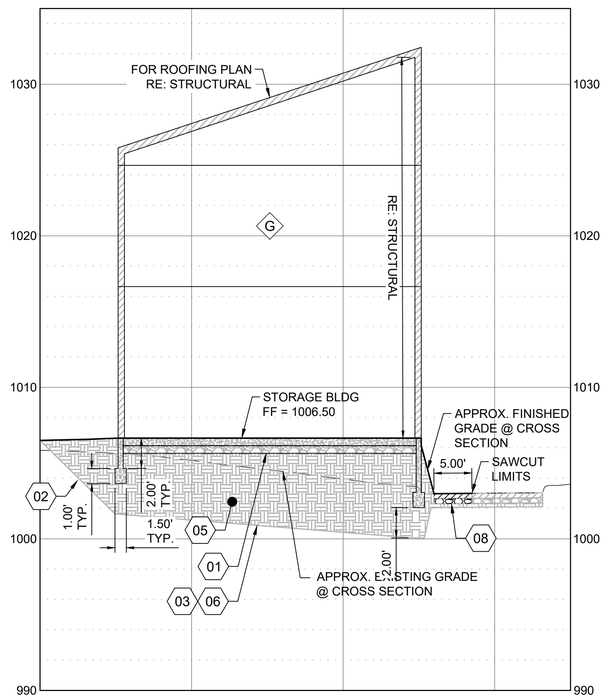


A1 EXCAVATION SECTION - NORTH/SOUTH

SCALE: 1"=10'

0' 10' 20'

SCALE: 1"=10'



A3 EXCAVATION SECTION - EAST/WEST

SCALE: 1"=10'

0' 10' 20'

SCALE: 1"=10'

SHEET KEYNOTES

01 INSTALL UNDER FOOTINGS AND SLABS, 12" OF CLASS II AGGREGATE BASE. COMPACT TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557. MAXIMUM LOOSE LIFT THICKNESS SHALL NOT EXCEED 6", RE: SPECIFICATION 31 00 00.

02 SLOPE AND/OR SHORE IN ACCORDANCE WITH CAL/OSHA REQUIREMENTS

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06 PLACE SEPARATION DRAINAGE GEOTEXTILE

07 INSTALL SIDEWALK, RE: CITY OF PENDELTON STD 209/C-510

08 INSTALL ASPHALT, RE: C1001/C-500

09 INSTALL CONCRETE STAIRS; RE: C0404/C-500

10 THE CONTRACTOR IS RESPONSIBLE TO DETERMINE MEANS AND METHODS TO EITHER PERFORM WORK AROUND THE DIGESTER LID OR MOVE LID AS NEEDED TO PERFORM REQUIRED WORK. LID SHALL BE PROTECTED FROM DAMAGE AND IF DAMAGE OCCURS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS; RE: SPEC SECTION 01 35 13 SPECIAL PROJECT PROCEDURES.

GRAPHIC SCALE

HORIZ: 0' 10' 20' — SCALE: 1"=10'

VERT: 0' 5' 10' — SCALE: 1"=5'

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW STORAGE BUILDING EXCAVATION SECTIONS

DRAWN: JH CHECK: AT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

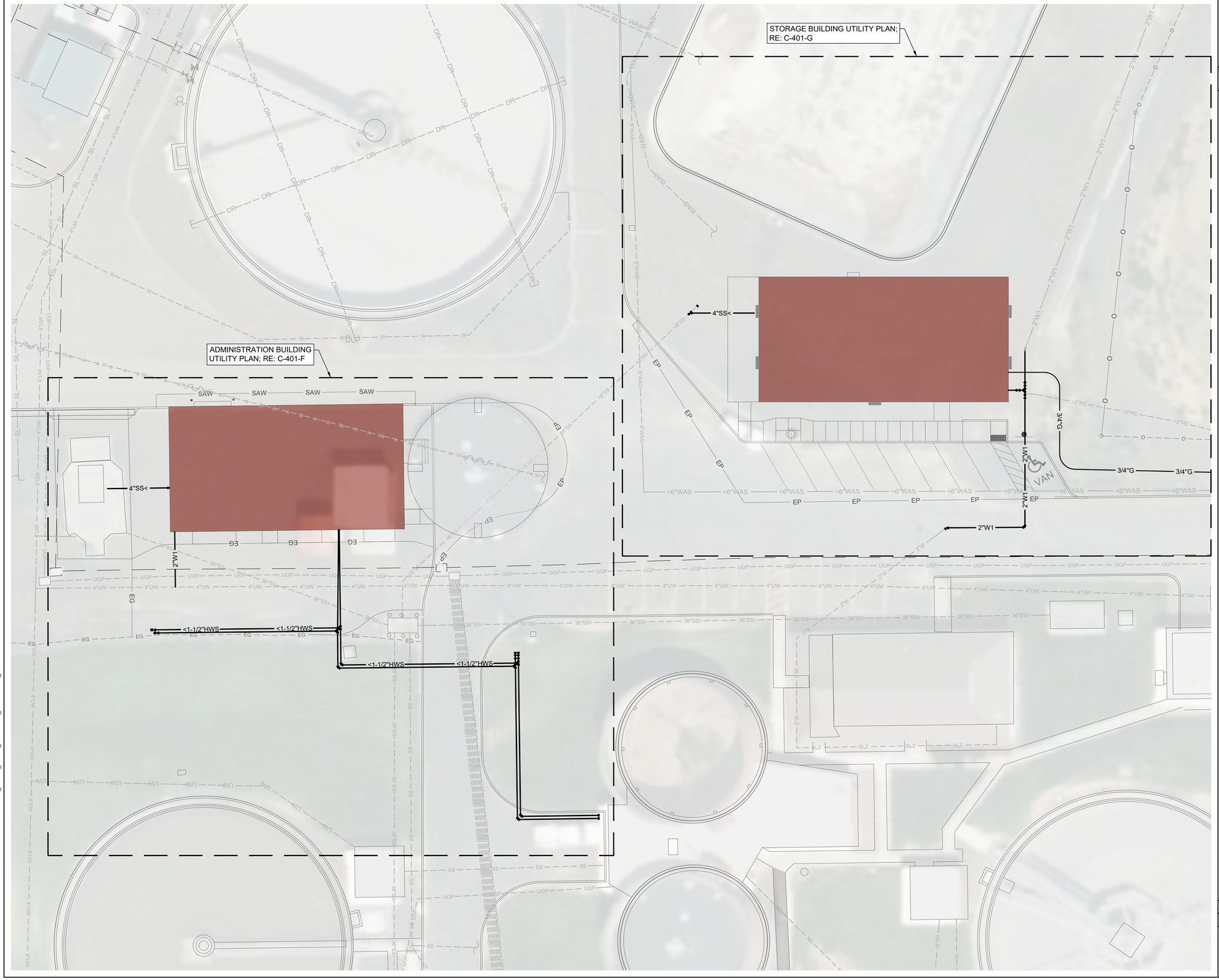
PROJECT NO. 225096-001

25

FIGURE NO. C-211-G

J:\225096-001 - PENDLETON WWTRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\EXCAVATION PLAN.DWG LAST SAVED: 4/28/2026 5:45 PM PRINTED: 4/29/2026 11:17 AM

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_ CAD\3_DESIGN\D_PLANS-1\02_CIVIL\UTILITY.DWG LAST SAVED: 4/29/2026 6:42 AM PRINTED: 4/29/2026 11:17 AM



0' 15' 30'
SCALE: 1"=15'

GENERAL SHEET NOTES

1. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITIES TO VERIFY LOCATION AND DEPTH.

BUILDING DESIGNATOR

- F ADMINISTRATION BUILDING (N)
- G STORAGE BUILDING (N)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

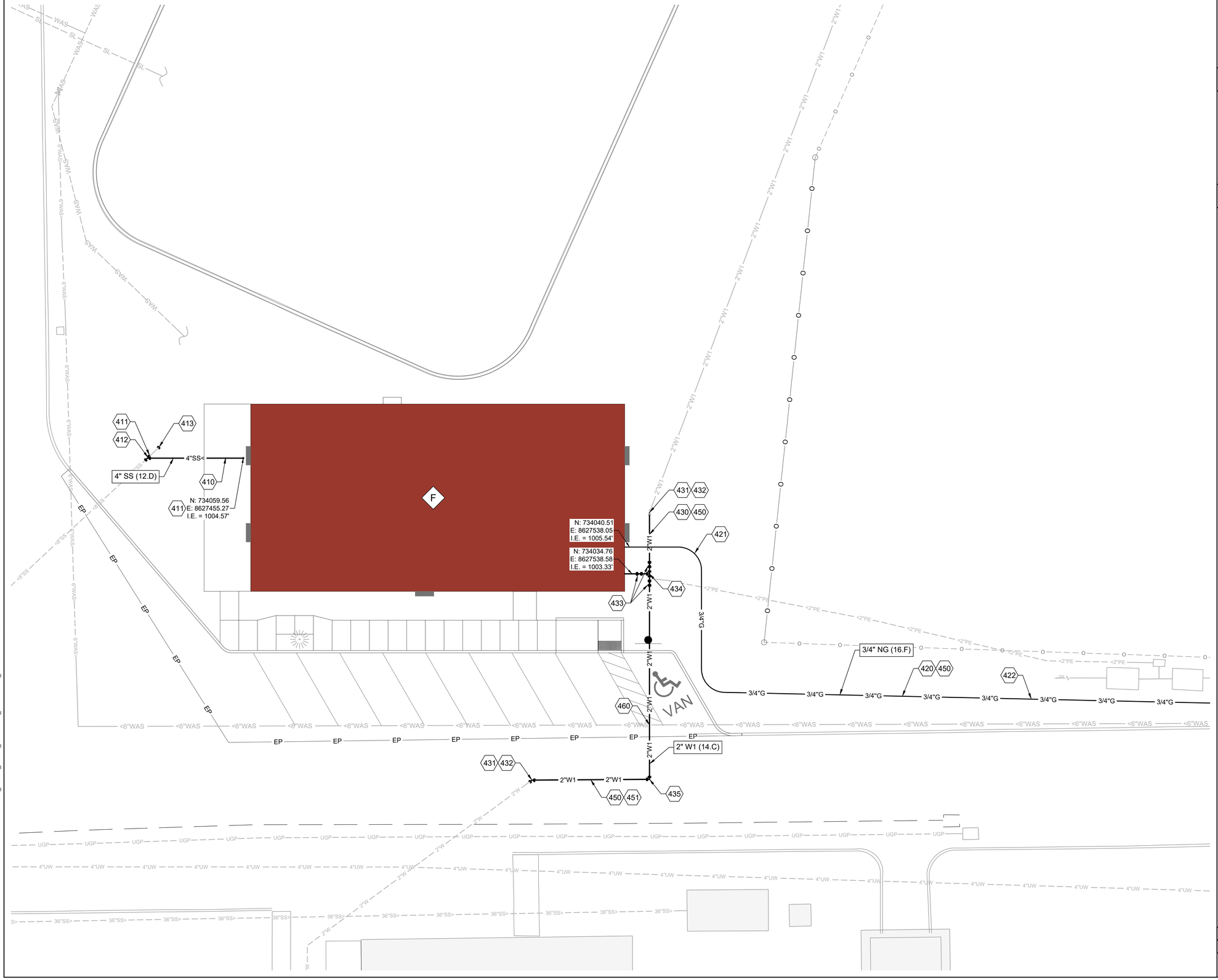
OVERALL SITE UTILITY PLAN

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 26

FIGURE NO. C-401



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0' 10' 20'
SCALE: 1"=10'

GENERAL SHEET NOTES

1. EXISTING UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION, CONTRACTOR TO VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITIES TO VERIFY LOCATION AND DEPTH.

SHEET KEYNOTES

410 INSTALL 4" SANITARY SEWER LINE

411 INSTALL 4" CLEANOUT; RE: STD DTL 309/C-510

412 CONNECT TO EXISTING 8" SS LINE WITH 8"x8"x4" WYE. INVERT ELEVATION UNKNOWN. MAINTAIN A MINIMUM OF 0.5% SLOPE UP FROM POINT OF CONNECTION TO BUILDING CONNECTION.

413 INSTALL 8" CAP FITTING

420 INSTALL 3/4" NATURAL GAS LINE; RE: MP-102-F

421 INSTALL SWEEP AS REQUIRED

422 CONNECT TO EXISTING JUNCTION OFFSITE; RE: G-006

430 INSTALL 2" WATER SERVICE LINE; RE: MP-102-F

431 CONNECT TO EXISTING WATER-MAIN. INVERT ELEVATION UNKNOWN.

432 INSTALL 2" 45° FITTING

433 INSTALL 2" GATE VALVE

434 INSTALL 2" TEE FITTING

435 INSTALL 2" 90° FITTING

450 CONSTRUCT PIPE TRENCH; RE: 103/C-510

451 CONSTRUCT STREET PATCH: RE: 202/C-510

460 UTILITY CROSSING, RETAIN AND PROTECT EXISTING UTILITY

- BUILDING DESIGNATOR

F ADMINISTRATION BUILDING (N)

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

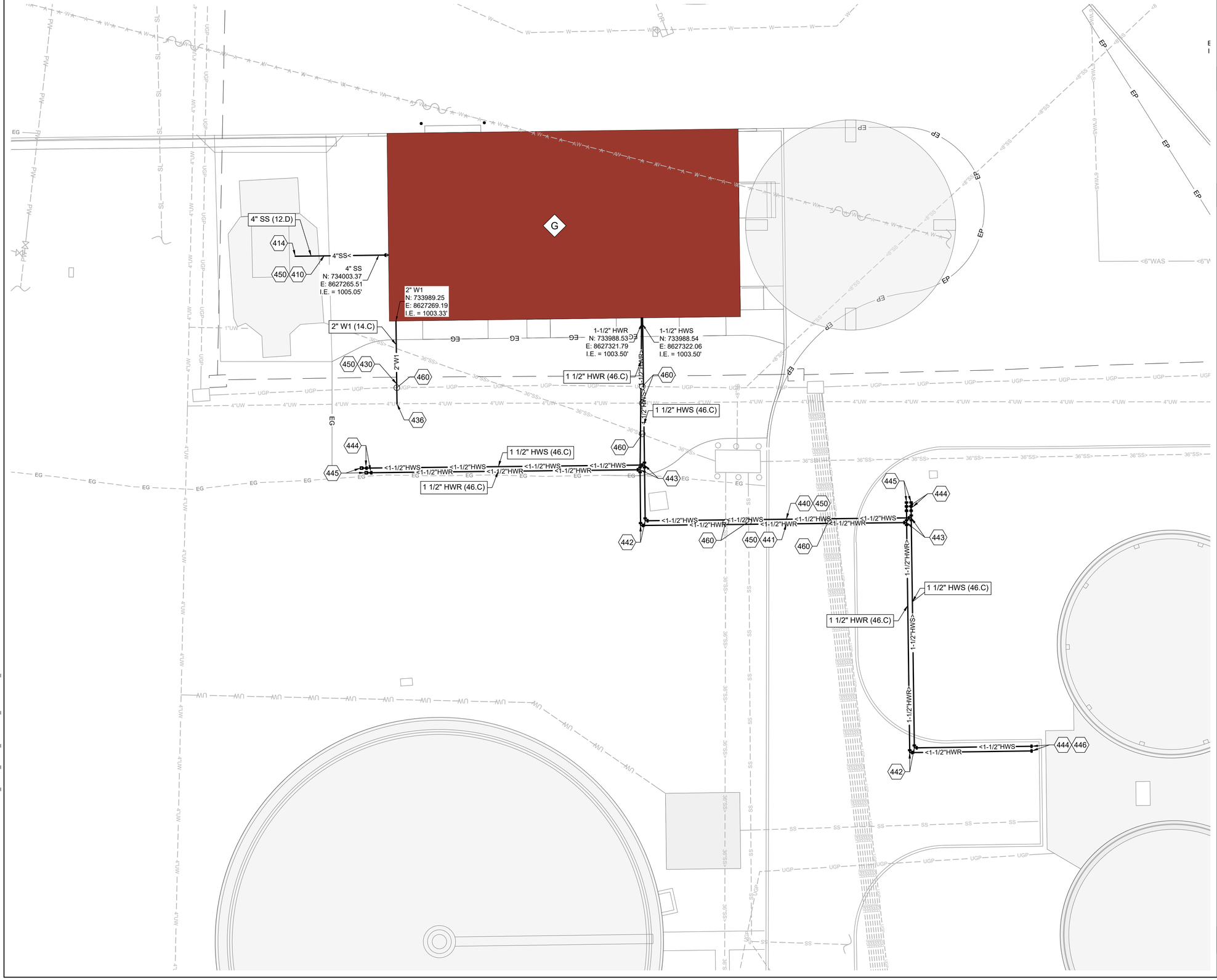
NEW ADMIN BUILDING UTILITY PLAN

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 27

FIGURE NO. C-401-F



GENERAL SHEET NOTES

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2. PRIOR TO CONSTRUCTION, CONTRACTOR TO POTHOLE IN A NON-DESTRUCTIVE MANNER EXISTING UTILITIES TO VERIFY LOCATION AND DEPTH.

SHEET KEYNOTES

410 INSTALL 4" SANITARY SEWER LINE

411 INSTALL 4" CLEANOUT; RE: STD DTL 309/C-510

414 CONNECT TO EXISTING MAINLINE BOX. MAINTAIN A MINIMUM OF 0.5% SLOPE UP FROM POINT OF CONNECTION TO BUILDING CONNECTION.

430 INSTALL 2" WATER SERVICE LINE; RE: MP-101-G

436 HOT TAP 4" WATER LINE. THE LINE SHOULD REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. COORDINATE WITH ENGINEER IF WATER SHUTOFF IS REQUIRED. INVERT ELEVATION UNKNOWN.

440 INSTALL 3" HOT WATER SUPPLY LINE

441 INSTALL 3" HOT WATER RETURN LINE

442 INSTALL 3" 90° FITTING

443 INSTALL 3" TEE FITTING

444 INSTALL 3" GATE VALVE

445 INSTALL 3" CAP

446 EXTEND PIPING TO CONNECT IN PRIMARY DIGESTER BUILDING

450 CONSTRUCT PIPE TRENCH; RE: 103/C-510

451 CONSTRUCT STREET PATCH: RE: 202/C-510

460 UTILITY CROSSING, RETAIN AND PROTECT EXISTING UTILITY

BUILDING DESIGNATOR

G STORAGE BUILDING (N)

0' 10' 20'
SCALE: 1"=10'

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NEW STORAGE BUILDING UTILITY PLAN

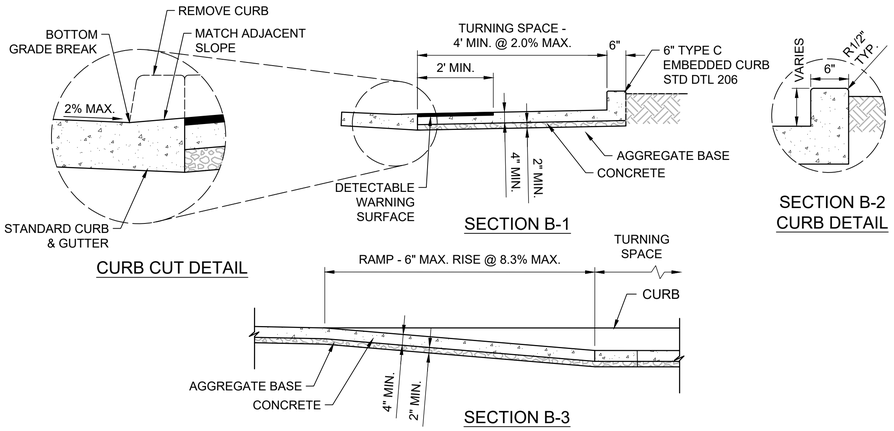
DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 28

FIGURE NO. C-401-G

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\UTILITY.DWG LAST SAVED: 4/29/2026 6:42 AM PRINTED: 4/29/2026 11:18 AM



CURB CUT DETAIL

SECTION B-1

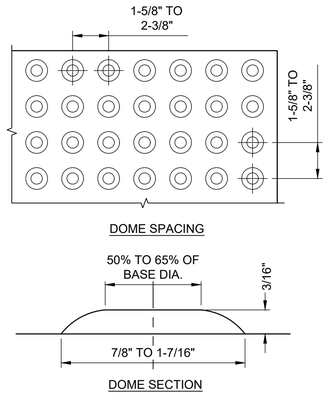
SECTION B-2
CURB DETAIL

SECTION B-3

NOTES:
1. THESE SECTIONS AND NOTES ARE RELATED TO ALL TYPE 'B' PEDESTRIAN CURB RAMPS (PARALLEL STYLE), SEE LAYOUT DETAIL FOR MORE INFORMATION.
2. PARALLEL CURB RAMPS HAVE A RAMP OR RAMPS IN-LINE WITH THE DIRECTION OF SIDEWALK TRAVEL AND LOWER THE SIDEWALK TO A LEVEL TURNING SPACE WHERE A TURN IS MADE TO ENTER THE PEDESTRIAN STREET CROSSING.
3. ALL CONCRETE ADJOINING THE RADIUS WITHIN AND AROUND THE RAMPS TO BE 4" THICK WITH 2" OF 3/4" AGGREGATE BASE.
4. ALIGN ALTERNATING CURB AND SIDEWALK JOINTS. CONSTRUCT JOINTS APPROXIMATELY 1/8" WIDE AND 3/4" IN DEPTH.
5. ALL RAMP SURFACES TO BE 8.3% (12:1) MAXIMUM SLOPE TO CONFORM WITH ADA REQUIREMENTS.
6. THE RAMP THROAT WIDTH TO BE 4' MINIMUM MEASURED PERPENDICULAR TO THE THROAT DEPTH OF THE RAMP.
7. PROVIDE A 4'X4' TURNING SPACE (LANDING) AT TOP AND BOTTOM WITH A 2.0% OR FLATTER SLOPE IN EACH DIRECTION. TURNING SPACES MAY OVERLAP WITH OTHER TURNING SPACES AND CLEAR SPACE.
8. THE CROSS SLOPE OF THE RAMP AND TURNING SPACE SHALL NOT EXCEED 2%. CROSS SLOPE IS MEASURED PERPENDICULAR TO THE DIRECTION OF PEDESTRIAN TRAVEL.
9. ENSURE THAT GRADE BREAKS ARE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN AND ARE FLUSH. DO NOT CREATE GRADE BREAKS ON THE SURFACE OF RAMP RUNS AND TURNING SPACES.
10. ENSURE THAT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF THE CURB RAMP RUNS DO NOT EXCEED TWO PERCENT.
11. THE PEDESTRIAN CIRCULATION PATH IS A PREPARED SURFACE PROVIDED FOR PEDESTRIAN TRAVEL IN THE PUBLIC RIGHT-OF-WAY. THE PEDESTRIAN ACCESS ROUTE IS A CONTINUOUS AND UNOBSTRUCTED PATH OF TRAVEL PROVIDED FOR PEDESTRIANS WITH DISABILITIES WITHIN OR COINCIDING WITH A PEDESTRIAN CIRCULATION PATH.
12. WHERE PRACTICAL, PLACE UTILITY COVERS, VAULT FRAMES, AND GRATINGS OUTSIDE RAMP RUNS, TURNING SPACES, OR GUTTER AREAS. LOCATE CATCH BASINS AND INLETS OUTSIDE OF RAMP RUNS AND FLARES.
13. PROVIDE DETECTABLE WARNING SURFACE TO WARN PEDESTRIANS WHEN THE PEDESTRIAN ACCESS ROUTE ENTERS TRAFFIC. SEE "DETECTABLE WARNING SURFACE FOR PEDESTRIAN ACCESS" DETAIL FOR INSTALLATION AND LOCATION.

C1520 PEDESTRIAN CURB RAMP TYPE 'B' - SECTIONS & NOTES

N.T.S.

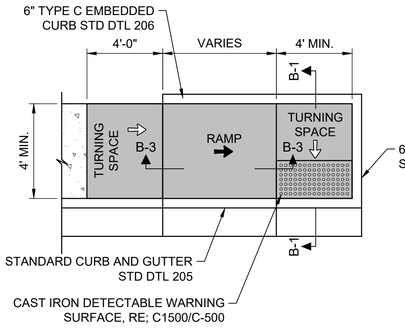


NOTES:

1. CAST IRON DETECTABLE WARNING SURFACE SHALL BE REPLACEABLE AND 24" WIDE IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP, LANDING OR BLEND TRANSITION.
2. DETECTABLE WARNING SURFACES CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN.
3. DETECTABLE WARNING DOMES SHALL BE PRE-MANUFACTURED UNITS INTEGRALLY CAST INTO CONCRETE RAMP TO ACHIEVE THE TRUNCATED DOME DIMENSIONS AND SPACING SHOWN IN PLAN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
4. METHODS OF CONSTRUCTION AND COLORATION MUST BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. SUBMIT STANDARD MANUFACTURERS COLOR TO OWNER FOR COLOR SELECTION. SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.

C1500 CAST IRON DETECTABLE WARNING FOR PEDESTRIAN ACCESS

N.T.S.

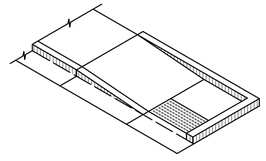


NOTE: SEE C1520 PEDESTRIAN CURB RAMP TYPE 'B' - SECTIONS & NOTES FOR MORE INFORMATION.

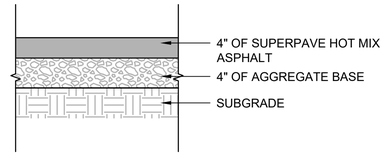
C1521 PEDESTRIAN CURB RAMP - TYPE 'B1' LAYOUT

N.T.S.

LEGEND
- 2.0% MAX. SLOPE ALL DIRECTIONS
- 6" MAX. RISE @ 8.3% MAX. SLOPE 2.0% OR FLATTER CROSS SLOPE
- CONCRETE - 5" THICK
- SIDEWALK



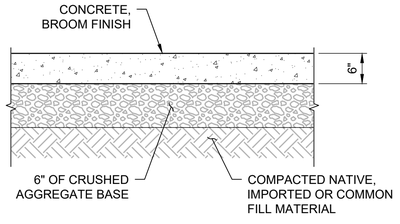
ISOMETRIC VIEW



NOTES:
1. SEE SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION REQUIREMENT.
2. PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.

C1001 ASPHALT PAVEMENT - LIGHT DUTY

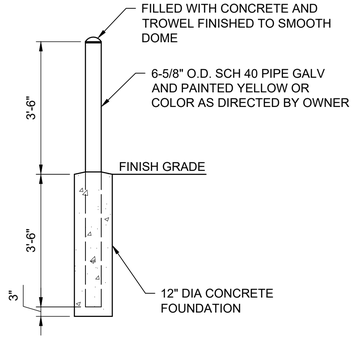
N.T.S.



NOTES:
1. PLACE EXPANSION JOINT MATERIAL ADJACENT TO STRUCTURES AND 60' MAXIMUM SPACING.
2. BROOM FINISH CONCRETE, CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS AT 5-FEET MAXIMUM SPACING.
3. SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & CONSTRUCTION REQUIREMENTS.

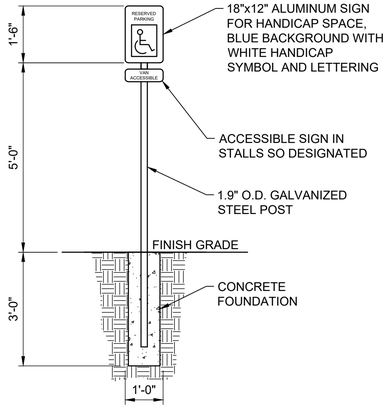
C1422 CONCRETE PAD

N.T.S.



C0120 BOLLARD

1/2" = 1'-0"



C8011 ACCESSIBLE PARKING SIGN

1/2" = 1'-0"

KELLER ASSOCIATES
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Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
96662PE
Digitally Signed 2026.05.01 23:33:40-07'00'
OREGON
NOV. 11, 2020
ANGELA J. TAYLOR
EXPIRES: 06-30-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CIVIL DETAILS

DRAWN: BAJ | CHECK: JH

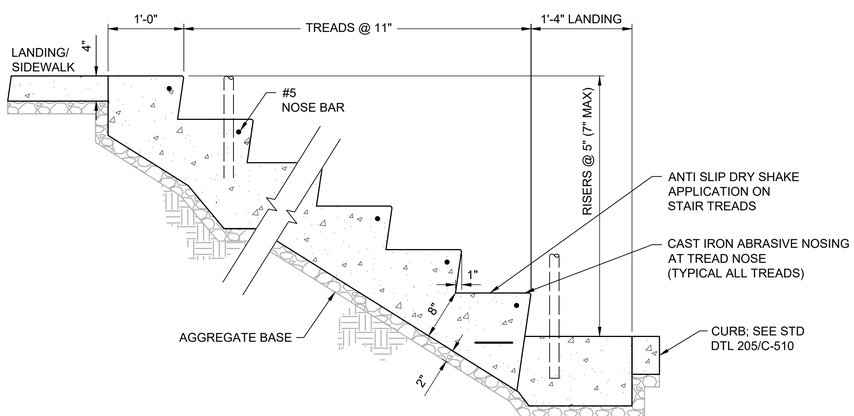
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 29

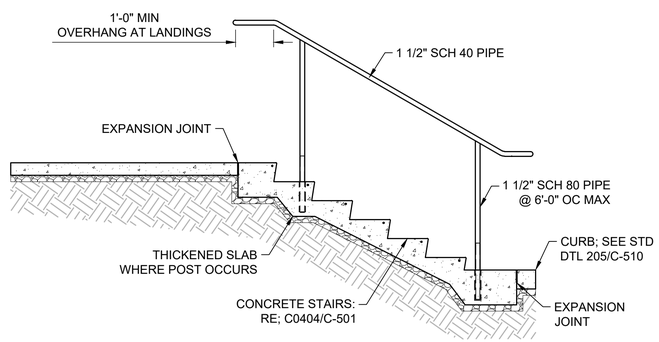
FIGURE NO. C-500

PRINTED: 4/29/2026 11:18 AM
LAST SAVED: 4/28/2026 3:38 PM
J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\CIVIL DETAILS - KELLER.DWG



C0404 CONCRETE STAIRS

N.T.S.



C0101 STAIRS WITH HANDRAIL

N.T.S.

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Digitally Signed 2026.05.01 23:34:27-07'00'
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NOV. 11, 2020
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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CIVIL DETAILS

DRAWN: BAJ CHECK: JH

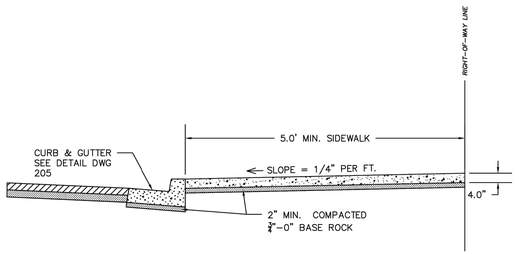
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 30

FIGURE NO. C-501

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\CIVIL DETAILS 2 - KELLER.DWG LAST SAVED: 4/29/2026 2:59 PM PRINTED: 4/29/2026 2:59 PM



NOTES:

1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, 28 DAYS AFTER PLACEMENT, USING 6 SACK MIX, WITH A SLUMP RANGE OF 3" TO 5".

2) BASE ROCK SHALL BE ¾" MINUS CRUSHED ROCK AND SHALL BE COMPACTED TO NOT LESS THAN 95% RELATIVE COMPACTION.

3) MINIMUM SIDEWALK THICKNESS SHALL BE 4", EXCEPT AT DRIVEWAYS.

4) RESIDENTIAL DRIVEWAY THICKNESS SHALL BE 5". INDUSTRIAL DRIVEWAY THICKNESS SHALL BE 6" OR 5" WITH 6"X 6" WELDED WIRE MESH. SEE DRIVEWAY APPROACH STANDARD DRAWING 211.

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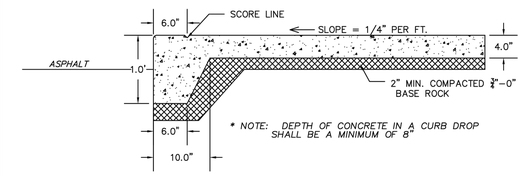
APPROVED BY — APPROVAL DATE — REVISED DATE

COMMERCIAL SIDEWALK STANDARDS | NO SCALE | DWG NO. 209



* NOTE: DEPTH OF CONCRETE IN A CURB DROP SHALL BE A MINIMUM OF 8"

NOTES:

1) MONOLITHIC CURB AND SIDEWALK IS NOT A GENERALLY ACCEPTED METHOD AND WILL ONLY BE ALLOWED WITH THE CITY ENGINEERS APPROVAL.

2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, 28 DAYS AFTER PLACEMENT, USING 6 SACK MIX.

3) EXPANSION JOINTS SHALL BE LOCATED AT THE BEGINNING AND END OF EACH STRAIGHT RUN, AT 30 FOOT INTERVALS, AND AT SUCH PLACES AS NECESSITY MAY REQUIRE AS DIRECTED BY THE ENGINEER.

4) CONTRACTION JOINTS SHALL BE LOCATED AT INTERVALS NOT TO EXCEED 15 FEET AND MAY BE OMITTED WHERE EXPANSION JOINTS ARE AT LESS THAN 25 FOOT INTERVALS.

5) BASE ROCK SHALL BE ¾" MINUS CRUSHED ROCK AND SHALL BE COMPACTED TO NOT LESS THAN 95% RELATIVE COMPACTION.

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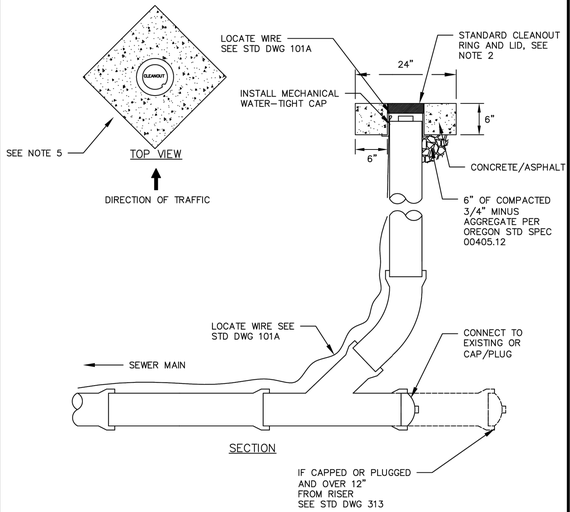
APPROVED BY — APPROVAL DATE — REVISED DATE

MONOLITHIC CURB AND GUTTER DETAIL | NO SCALE | DWG NO. 210



NOTES:

1. BACKFILL ENTIRE ASSEMBLY WITH BEDDING PER OREGON STD SPEC 00405.12.
2. RING AND LID SHALL BE OLYMPIC M1007 OR APPROVED EQUAL.
3. 6" OR 8" PIPE ONLY FOR PUBLICLY OWNED SYSTEMS. CLEANOUT TO MATCH THE SIZE OF THE DOWNSTREAM PIPE.
4. CLEANOUT CAN ALSO CONSIST OF A COMBO WYE WITH 45° ELBOW AND END PLUG.
5. CLEANOUT PAD CAN BE 24" ROUND OR SQUARE, MADE OF CONCRETE 6" THICK OR ASPHALT TO MATCH EXISTING THICKNESS, MIN 4".
6. CLEANOUT CAN ALSO CONSIST OF A LONG RADIUS SWEEP 90° (COMBO WYE/TEE).

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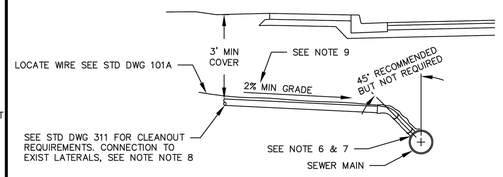
APPROVED BY — FEBRUARY 2019 APPROVAL DATE — REVISED DATE

STANDARD CLEANOUT | NO SCALE | DWG NO. 309



TYPICAL SECTION

NOTES:

1. PIPE DIAMETER SHALL BE 4" OR GREATER. SEE STD DWG 101 FOR ACCEPTABLE MATERIALS.
2. PIPES STUBBED OUT FOR FUTURE BUILDING CONNECTIONS SEE STD DWG 311 AND 313.
3. MAXIMUM DISTANCE BETWEEN CLEANOUTS SHALL BE 100 FEET. THE MAXIMUM AGGREGATE CHANGE IN DIRECTION BETWEEN CLEANOUTS SHALL BE 135° CONSTRUCT ADDITIONAL CLEANOUTS AS NECESSARY. SERVICE LINES ON PRIVATE PROPERTY MUST MEET PLUMBING CODE.
4. WATER SERVICE AND SEWER SERVICE SEPARATION PER STD DWG 104.
5. ABANDONED SEWER SEE STD DWG 313.
6. LATERALS CONNECTING TO NEW SEWER MAINS SHALL BE CONNECTED WITH A GASKETED WYE.
7. LATERALS CONNECTING TO EXISTING SEWER MAINS SHALL BE CONNECTED WITH "ROMAC CB", "INSERTA TEE", OR APPROVED EQUAL. CENTER OF WYE SHALL BE IN TOP HALF OF PIPE.
8. CONNECTION TO EXISTING LATERALS SHALL BE FERNCO FLEX COUPLER OR APPROVED EQUAL.
9. 1% SLOPE ALLOWED FOR SPECIAL CONDITIONS AS PRE-APPROVED BY CITY.
10. ALL NEW SEWER SERVICES REQUIRE TWO-WAY CLEANOUTS AT PROPERTY LINE/ROW. SEE DWG 311.

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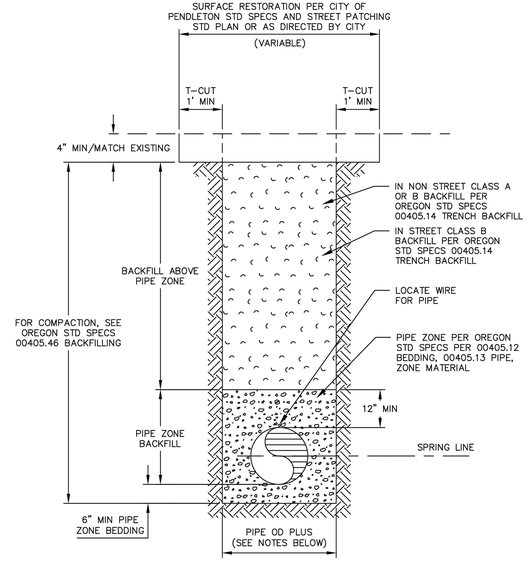
APPROVED BY — FEBRUARY 2019 APPROVAL DATE — REVISED DATE

SERVICE SEWER INSTALLATION | NO SCALE | DWG NO. 310



1. 24" FOR OD EQUAL OR LESS THAN 24" DIAMETER
2. 36" FOR OD GREATER THAN 24" DIAMETER

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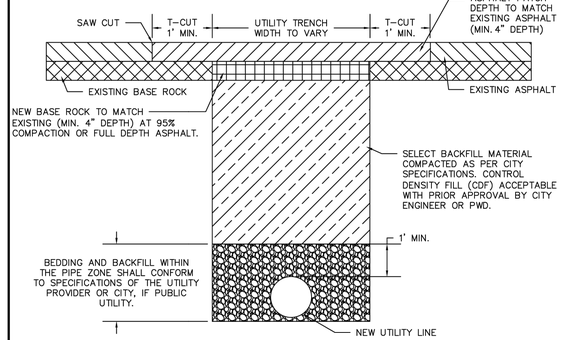
APPROVED BY — FEBRUARY 2019 APPROVAL DATE — REVISED DATE

TYPICAL PIPE TRENCH | NO SCALE | DWG NO. 103



IMPORTANT:
CALL CITY ENGINEERING DEPARTMENT AT 541-966-0203 FOR INSPECTION PRIOR TO PATCHING AS CALLED OUT IN THE PLANS. FAILURE TO CALL FOR APPROVAL SHALL RESULT IN COMPLETE REMOVAL AND RECONSTRUCTION.

NOTES:
1) PRIOR TO PERMANENT PATCHING, REMOVE MATERIAL TO SUBGRADE TO REACH FIRM SUPPORT. FOR T PATCH, EXTEND AT LEAST ONE (1) FOOT HORIZONTALLY INTO EXISTING PAVEMENT. T PATCH CUT NOT TO BE MADE UNTIL TRENCH IS BACKFILLED AND READY TO BE PATCHED.

2) PRIOR TO PERMANENT PATCH, MAKE SQUARE OR RECTANGULAR CUTS WITH SAW. MAKE FACES STRAIGHT AND VERTICAL.

3) TRIM AND COMPACT SUBGRADE. COMPACT SUBGRADE TO AT LEAST NINETY-FIVE (95) PERCENT RELATIVE MAXIMUM DENSITY.

4)THOROUGHLY TACK COAT ALL VERTICAL SURFACES WITH ASTM D 2397 OR D 3628 ASPHALT EMULSION TYPES SS-1, SS-1H, CSS-1, OR CSS-1H, DILUTED WITH EQUAL PARTS OF WATER.

5) PLACE HOT MIX ASPHALT CONCRETE WHILE TEMPERATURE STAYS ABOVE TWO HUNDRED (200) DEGREES F TO PREVENT SEGREGATION OF MIX.

6) ASPHALT MIX TO BE USED FOR PATCHING SHALL BE APPROVED PRIOR TO PATCHING.

7) COLD MIX MAY BE SUBSTITUTED IF HOT MIX IS NOT AVAILABLE DUE TO WEATHER CONDITIONS OR SEASON. COLD MIX MUST BE APPROVED BY CITY PRIOR TO PATCHING.

8) COMPACT IN LIFTS IF PATCH IS FOUR (4) INCHES OR GREATER IN DEPTH. INSTALL IN EQUAL LIFT THICKNESS. MAXIMUM TWO (2) INCH LIFTS.

9) COMPACT WITH EQUIPMENT MOST SUITED FOR THE SIZE OF JOB.

10) ADEQUATE COMPACTION EQUIPMENT THAT WILL YIELD SURFACE OR PATCH AT SAME ELEVATION AS THE SURROUNDING PAVEMENT SHALL BE USED.

11) CHECK RIDING QUALITY, DRAINAGE, AND ALIGNMENT OR PATCH WITH STRAIGHT EDGE.

12) BROOM CLEAN AREAS OF WORK. CLEAN UP ALL SPILLS AND REMOVE EXTRA MATERIALS FROM JOB SITE.

CITY OF PENDLETON OREGON — ENGINEERING DEPARTMENT, 500 S.W. DORION AVENUE PENDLETON, OREGON 97801, VOICE: (541) 966-0203, FAX: (541) 966-0251

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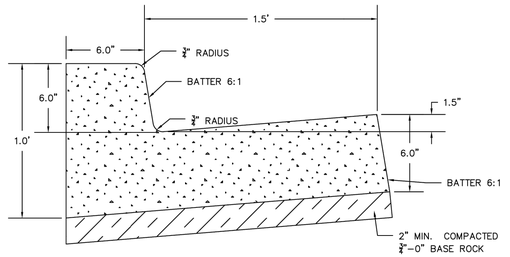
STREET PATCHING STANDARDS | NO SCALE | DWG NO. 202



NOTES:
1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI, 28 DAYS AFTER PLACEMENT, USING 6 SACK MIX.

2) EXPANSION JOINTS SHALL BE LOCATED AT THE BEGINNING AND END OF EACH STRAIGHT RUN, AT 30 FOOT INTERVALS, AND AT SUCH PLACES AS NECESSITY MAY REQUIRE AS DIRECTED BY THE ENGINEER.

3) CONTRACTION JOINTS SHALL BE LOCATED AT INTERVALS NOT TO EXCEED 15 FEET AND MAY BE OMITTED WHERE EXPANSION JOINTS ARE AT LESS THAN 25 FOOT INTERVALS.

4) BASE ROCK SHALL BE ¾" MINUS CRUSHED ROCK AND SHALL BE COMPACTED TO NOT LESS THAN 95% RELATIVE COMPACTION.

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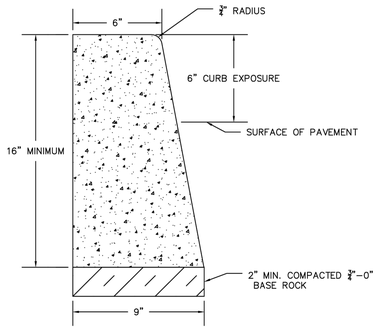
APPROVED BY — APPROVAL DATE — REVISED DATE

STANDARD CURB & GUTTER | NO SCALE | DWG NO. 205



NOTES:

1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3300 PSI, 28 DAYS AFTER PLACEMENT, USING 6.3 SACK MIX.

2) EXPANSION JOINTS SHALL BE LOCATED AT THE BEGINNING AND END OF EACH STRAIGHT RUN, AT 30 FT. INTERVALS, AND AT SUCH PLACES AS NECESSITY MAY REQUIRE AS DIRECTED BY THE ENGINEER.

3) CONTRACTION JOINTS SHALL BE LOCATED AT INTERVALS NOT TO EXCEED 15 FT. AND MAY BE OMITTED WHERE EXPANSION JOINTS ARE AT LESS THAN 25 FT INTERVALS.

4) BASE ROCK SHALL BE ¾" MINUS CRUSHED ROCK AND SHALL BE COMPACTED TO NOT LESS THAN 95% RELATIVE COMPACTION.

CITY OF PENDLETON OREGON — ENGINEERING DEPARTMENT, 500 S.W. DORION AVENUE PENDLETON, OREGON 97801, VOICE: (541) 966-0203, FAX: (541) 966-0251

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TYPE "C" CURB | NO SCALE | DWG NO. 206

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NOV. 11, 2020
ANGELA J. TAYLOR
EXPIRES: 06-30-2026

NO.	REVISIONS	DATE

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PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CITY STANDARD DETAILS

DRAWN: BAJ | CHECK: JH

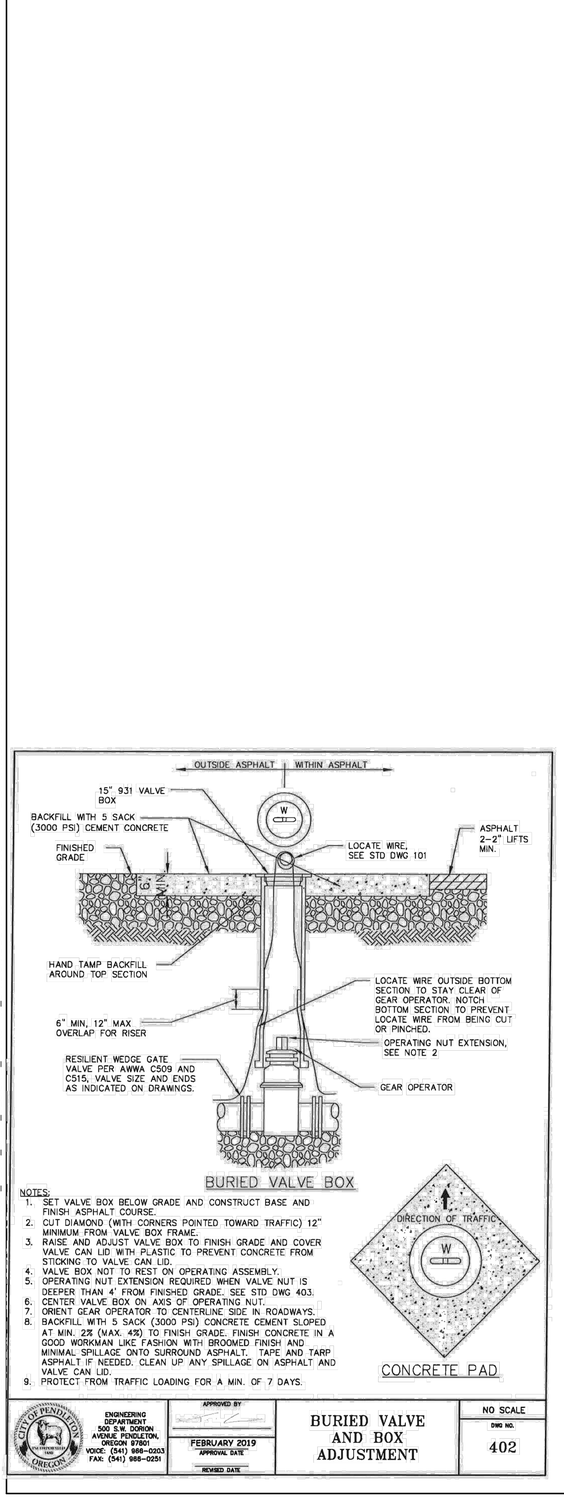
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 31

FIGURE NO. C-510

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\CIVIL DETAILS - CITY.DWG LAST SAVED: 4/28/2026 3:38 PM PRINTED: 4/29/2026 11:18 AM



BURIED VALVE BOX

NOTES:

1. SET VALVE BOX BELOW GRADE AND CONSTRUCT BASE AND FINISH ASPHALT COURSE.
2. CUT DIAMOND (WITH CORNERS POINTED TOWARD TRAFFIC) 12" MINIMUM FROM VALVE BOX FRAME.
3. RAISE AND ADJUST VALVE BOX TO FINISH GRADE AND COVER VALVE CAN LID WITH PLASTIC TO PREVENT CONCRETE FROM STICKING TO VALVE CAN LID.
4. VALVE BOX NOT TO REST ON OPERATING ASSEMBLY.
5. OPERATING NUT EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 4' FROM FINISHED GRADE. SEE STD DWG 403.
6. CENTER VALVE BOX ON AXIS OF OPERATING NUT.
7. ORIENT GEAR OPERATOR TO CENTERLINE SIDE IN ROADWAYS.
8. BACKFILL WITH 5 SACK (3000 PSI) CONCRETE CEMENT SLOPED AT MIN. 2% (MAX. 4%) TO FINISH GRADE. FINISH CONCRETE IN A GOOD WORKMAN LIKE FASHION WITH BROOMED FINISH AND MINIMAL SPILLAGE ONTO SURROUND ASPHALT. TAPE AND TARP ASPHALT IF NEEDED. CLEAN UP ANY SPILLAGE ON ASPHALT AND VALVE CAN LID.
9. PROTECT FROM TRAFFIC LOADING FOR A MIN. OF 7 DAYS.

CONCRETE PAD

CITY OF PENDLETON OREGON

ENGINEERING DEPARTMENT
500 S.W. DORION AVENUE PENDLETON, OREGON 97801
VOICE: (541) 966-0203
FAX: (541) 966-0251

APPROVED BY

FEBRUARY 2019
APPROVAL DATE

REVISED DATE

BURIED VALVE AND BOX ADJUSTMENT

NO SCALE

DWG NO.
402

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1060 Jadwin Avenue, Suite 375
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(509) 940-2080

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ANGELA J. TAYLOR
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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CITY STANDARD DETAILS

DRAWN: BAJ CHECK: JH

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 32

FIGURE NO. C-511

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\02_CIVIL\CIVIL DETAILS - CITY.DWG LAST SAVED: 4/28/2026 3:38 PM PRINTED: 4/29/2026 11:19 AM

0 30 60

GENERAL SHEET NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY OTHER STATE OR LOCAL CODE.
2. CABLE AND CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWING. FINAL ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE OWNER.
3. ALL OUTDOOR EQUIPMENT AND WIRING SHALL BE WEATHER PROOF.
4. ALL UNDERGROUND CABLE RUNS SHALL BE INSTALLED IN CONDUIT.
5. UNDERGROUND ELECTRICAL CONDUITS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE. RE: E-501.

SHEET KEYNOTES

701 NEW ADMINISTRATION BUILDING TO BE FED FROM NEW BREAKER IN MSB-2500A. RE: E-601.

702 CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL ELECTRICAL PULL BOX LOCATIONS.

703 TIE FIBER LINE INTO DNE IN EXISTING ADMIN BUILDING.

705 CONTRACTOR TO COORDINATE NEW FEED WITH OWNER. ROUTE THROUGH EXISTING CONDUIT. TRENCH NEW FEED FROM EXISTING PULLBOX.

706 NEW CIRCUITS TO BE ROUTED THROUGH EXISTING UNDERGROUND CONDUIT. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM EXISTING CONDUIT SIZE, ROUTING AND CONDITION PRIOR TO INSTALLATION.

707 PANEL LPB-DEC-01 LOCATED IN CHLORINATION BUILDING. RE: E-101-B2

708 OWNER TO TRENCH AND INSTALL POWER AND CONTROL CONDUITS TO WITHIN 5' OF NEW ADMIN BUILDING. CONTRACTOR TO INTERCEPT AND EXTEND CONDUITS INTO BUILDING.

STRUCTURE DESIGNATORS

F	NEW ADMIN BUILDING (N)
G	NEW STORAGE BUILDING (N)
B2	SAMPLER BUILDING (M)

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Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
87153PE
Digitally Signed 2026.05.01 12:18:23-08'00'
OREGON
NOV. 13, 2010
ADAM L. NEIWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL SITE PLAN

DRAWN: ELK CHECK: BMC

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 33

FIGURE NO. ES-101

PRINTED: 4/30/2026 1:11 PM
LAST SAVED: 4/29/2026 6:16 AM
J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1108_ELEC\OPSIES-101.DWG

PANEL NAME: LVP-SMP-01

LOCATION: SAMPLER BUILDING
FED FROM: LPB-DEC-01
MOUNTING: SURFACE

VOLTAGE: 120/240V
PHASE & WIRE: 3PH 3W
AIC RATING: 10K
ENCLOSURE: N1

BUS: 125A
FEED: BOTTOM
MAIN BREAKER: MLO
SPACES: 8

NOTES:

NOTES	CIRCUIT DESCRIPTION	CODE	LOAD	POLE	BKR	CKT	PH	CKT	BKR	POLE	LOAD	CODE	CIRCUIT DESCRIPTION	NOTES
	MAIN			2	50	1	A	2	20	1	500		LIGHTS & RECEP	
						3	B	4	20	1	1440		SAMP-CCC-50	
	HEATER		1000	1	20	5	C	6	20	1	360		EQUIPMENT RECEPTACLES	
	SPACE					7	A	8					SPACE	

CONNECTED VA PHASE A:	500	% CONNECTED VA PHASE A:	15%
CONNECTED VA PHASE B:	1440	% CONNECTED VA PHASE B:	44%
CONNECTED VA PHASE C:	1360	% CONNECTED VA PHASE C:	41%

TOTAL VA:	3300		
CONNECTED AMPS:	9		
DIVERSITY:	1.00	DIVERSIFIED AMPS:	9

PANEL NAME: LPB-DEC-01 (EXISTING)

LOCATION: DECLOR
FED FROM:
MOUNTING: SURFACE

VOLTAGE: 240/120V
PHASE & WIRE: 3PH 3W
AIC RATING: 10K
ENCLOSURE: N1

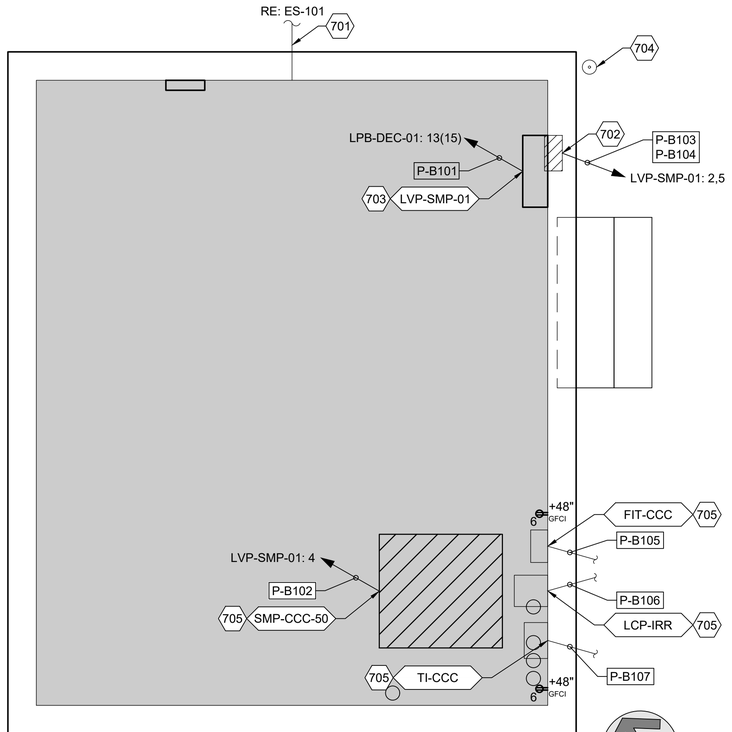
BUS: 225A
FEED: BOTTOM
MAIN BREAKER: 200A
SPACES: 42

NOTES:
1 NEW FEED TO EXISTING
2 PROVIDE NEW BREAKER

NOTES	CIRCUIT DESCRIPTION	CODE	LOAD	POLE	BKR	CKT	PH	CKT	BKR	POLE	LOAD	CODE	CIRCUIT DESCRIPTION	NOTES
	INTERIOR LIGHTING	L	400	1	20	1	A	2	20	1	300		PDP-DEC-50	
	RECEPTACLES	R	100	1	20	3	B	4	20	1	300		PDP-DEC-60	
	EXTERIOR LIGHTING	L	200	1	20	5	C	6	20	1	300	F	PDP-DEC-70 (F)	
	SPARE			1	20	7	A	8	30	2	2000		CHLORINE BUILDING	
	EH-CCC-01		2500	2	20	9	B	10			2000			
			2500			11	C	12	20	1	600		EF-CCC-01	
1,2	SAMPLER BUILDING		2051	2	50	13	A	14	20	1			CD-CCC-01	
			2051			15	B	16	50	2	6000	R	WELDER OUTLET	
	SPARE			1	20	17	C	18			6000	R		
	SUMP PUMP GP-DEC-70		700	1	20	19	A	20	20	1			SPARE	
	SPARE			1	20	21	B	22	20	1			SPARE	
	SPARE			1	20	23	C	24	20	1			SPARE	
	SPARE			1	20	25	A	26	20	1			SPARE	
	SPARE			1	20	27	B	28	20	1			SPARE	
	SPARE			1	20	29	C	30	20	1			SPARE	
	SPARE			1	20	31	A	32	20	1			SPARE	
	SPARE			1	20	33	B	34	20	1			SPARE	
	SPARE			1	20	35	C	36	20	1			SPARE	
	SPARE			1	20	37	A	38	20	1			SPARE	
	SPARE			1	20	39	B	40	20	1			SPARE	
	SPARE			1	20	41	C	42	20	1			SPARE	

CONNECTED VA PHASE A:	5451	% CONNECTED VA PHASE A:	19%
CONNECTED VA PHASE B:	12951	% CONNECTED VA PHASE B:	46%
CONNECTED VA PHASE C:	9600	% CONNECTED VA PHASE C:	34%

TOTAL VA:	28002		
CONNECTED AMPS:	78		
DIVERSITY:	0.95	DIVERSIFIED AMPS:	74



A1 POWER & INSTRUMENTATION PLAN
3/4" = 1'-0"
0 1' 2' 3'

GENERAL SHEET NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY OTHER STATE OR LOCAL CODE.
2. CABLE AND CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWING. FINAL ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE OWNER.
3. ALL OUTDOOR EQUIPMENT AND WIRING SHALL BE WEATHER PROOF.
4. ALL UNDERGROUND CABLE RUNS SHALL BE INSTALLED IN CONDUIT.
5. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
6. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
7. RE: E-604 FOR CONDUIT AND CABLE SCHEDULE.

LEGEND

- EXISTING EQUIPMENT
- NEW EQUIPMENT
- DEMOLITION

EQUIPMENT KEYNOTES

FIT-CCC	FLOW METER (R)
LCP-IRR	IRRIGATION CONTROLLER (R)
LVP-SMP-01	SAMPLER BUILDING MINI LOAD CENTER
SMP-CCC-50	SAMPLER AT MH#2 (E)
TI-CCC	TEMPERATURE GAUGE (R)

SHEET KEYNOTES

701 EXISTING 1" CONDUIT TO SAMPLER TO BE RE-FED AND RE-ROUTED FOR SAMPLER BUILDING MAIN POWER. MAINTAIN OTHER TWO EXISTING CONDUITS FOR MANHOLE EQUIPMENT.

702 EXISTING 2X20A BREAKERS DEMOLISHED AND EXISTING EQUIPMENT POWER TO BE ROUTED TO NEW PANEL.

703 CONTRACTOR TO INSTALL SAMPLER BUILDING LOW VOLTAGE MINI POWER PANEL. MAINTAIN CONTINUITY TO ALL DOWNSTREAM EQUIPMENT EXISTING AT STORAGE BUILDING.

704 INSTALL GROUND ROD. GROUND PANEL AND BUILDING PER NEC. GROUND WITH #6 CU; RE: E0002/E-501

705 EXISTING EQUIPMENT LOCATED WITHIN EXISTING SAMPLER ENCLOSURE SHALL BE RELOCATED TO NEW SHED WALLS. CONTRACTOR SHALL PROVIDE NEW WIRING AND MAINTAIN ELECTRICAL AND CONTROL CONTINUITY UPSTREAM AND DOWNSTREAM OF ALL RELOCATED EQUIPMENT. VERIFY ALL EQUIPMENT IS FULLY OPERATIONAL AFTER RELOCATION.

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OREGON
NOV. 13, 2010
ADAM L. NEIWERT
EXPIRES: 12-31-2026

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

EFFLUENT SAMPLER - POWER AND INSTRUMENTATION PLAN

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 34

FIGURE NO. E-101-B2

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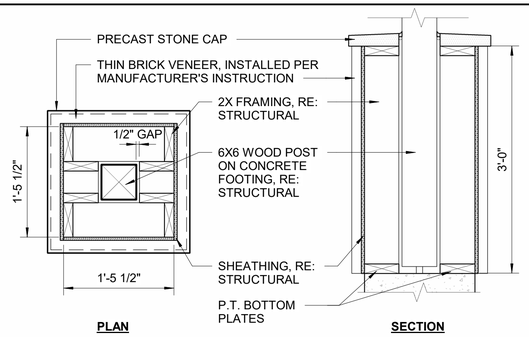

B1 COLUMN BASE

1" = 1'-0"

A1 FLOOR PLAN

1/4" = 1'-0"

GENERAL SHEET NOTES

1. DIMENSIONS ARE TO NOMINAL FACE OF WOOD STUDS OR GRIDLINES.
2. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, AND EQUIPMENT VENDORS.
3. COORDINATE WITH CIVIL DRAWINGS FOR EXTERIOR SLAB INFORMATION.
4. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
5. COORDINATE FINISH FLOOR ELEVATIONS WITH STRUCTURAL & CIVIL DRAWINGS.
6. FOR INTERIOR FINISH, SEE ROOM FINISH SCHEDULE ON A-601-F.
7. DIMENSIONS OF LOUVER AND FAN OPENINGS TO BE VERIFIED BY CONTRACTOR

SHEET KEYNOTES

101 SPLASH BLOCK & DOWNSPOUT; RE: A0329
108 STORAGE SHELVING; RE: SPECIFICATIONS
109 MECHANICAL/ELECTRICAL EQUIPMENT; RE: MECHANICAL/ELECTRICAL
132 UTILITY/MOP SINK; RE: PLUMBING
134 WASHER/DRYER; PROVIDED BY OWNER. RE: PLUMBING/HVAC
150 OWNER PROVIDED EQUIPMENT
153 NEW NATURAL GAS SERVICE FOR BUILDING; RE: CIVIL
154 COUNTERTOP BY CONTRACTOR; RE: A9000
155 OWNER PROVIDED SECURITY MONITOR MOUNTED TO WALL CONTRACTOR TO PROVIDE MOUNTING HARDWARE AND BLOCKING IN WALL AS REQUIRED.
156 SOLA-TUBE SKYLIGHT; RE: ROOF PLAN, A9505, AND SPECIFICATIONS
157 ATTIC ACCESS HATCH WITH INTEGRATED LADDER; RE: STRUCTURAL FOR BLOCKOUT SIZE. CONTRACTOR TO VERIFY SELECTION WITH OWNER.
158 CRAWLSPACE ACCESS; RE: STRUCTURAL
159 WALL MOUNTED TV, PROVIDE BLOCKING IN WALL FOR MOUNTING HARDWARE & RE: ELECTRICAL
160 THIN BRICK VENEER WITH STONE CAP; RE: SPECIFICATIONS. RE: B1/A-101-F FOR COLUMN BASE DETAIL

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

- WOOD STUD WALL, RE: A-501
- V# — DOOR, RE: SCHEDULE B1/A-601-F
- # — ROOM NUMBER, RE: SCHEDULE C1/A-601-F
- FIRE EXTINGUISHER, RE: SPECIFICATIONS
- # X — WINDOW, RE: SCHEDULE A1/A-601-F

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BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - FLOOR PLAN

DRAWN: BPB | CHECK: DT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 35

SHEET NO. A-101-F

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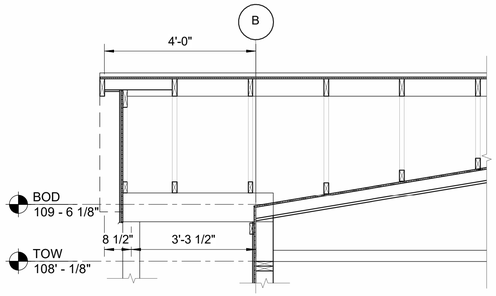
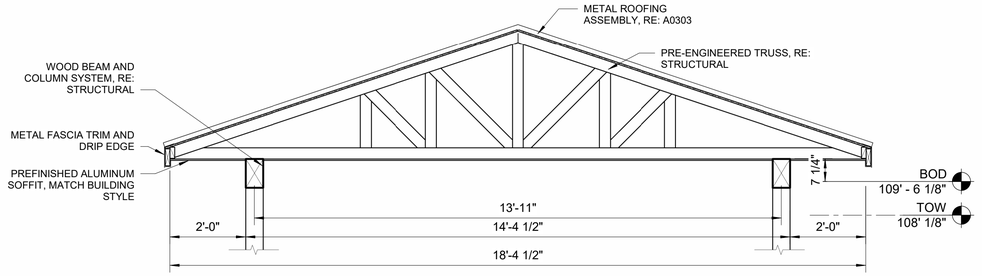


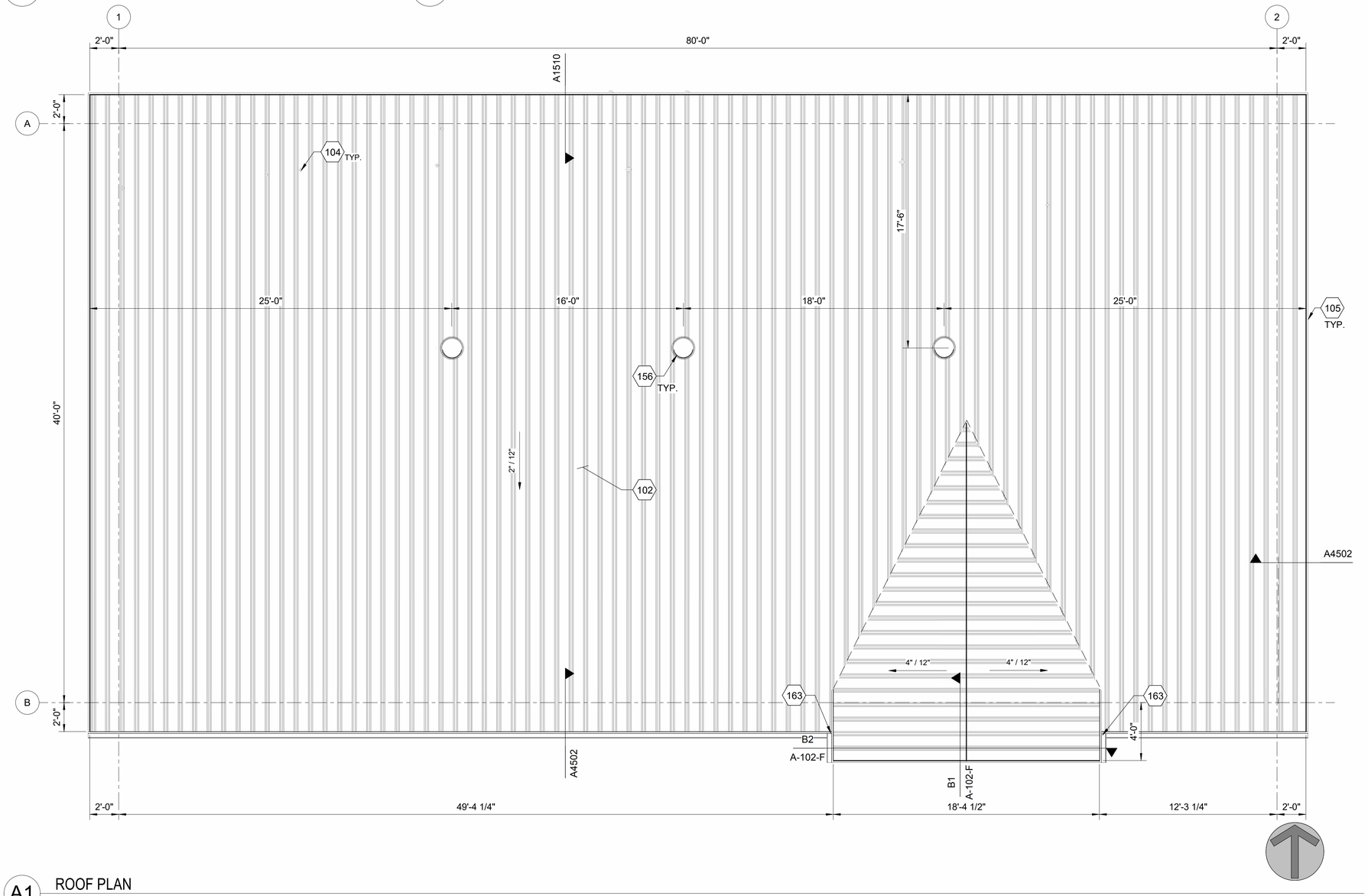


B1 CANOPY SECTION A

1/2" = 1'-0"

B2 CANOPY SECTION B

1/2" = 1'-0"



A1 ROOF PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. COORDINATE PENETRATION LOCATIONS FOR EQUIPMENT AND PIPING WITH MECHANICAL, ELECTRICAL AND PLUMBING.
2. DIMENSIONS ARE TO FACE OF FRAMING OR NOMINAL FACE OF MASONRY.
3. PROVIDE CRICKETING AS REQUIRED TO REDIRECT WATER FLOW AROUND ALL ROOFTOP EQUIPMENT TO PREVENT POOLING OF WATER.
4. NOT ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL ROOF PLAN SHEETS. THE CONTRACTOR IS RESPONSIBLE TO REFERENCE ALL STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR ALL ROOF EQUIPMENT OR PENETRATIONS.
5. PROVIDE ROOF VENTILATION THAT IS AT LEAST 1/150TH THE AREA OF THE ROOF, HALF OF WHICH IS ABOVE THE MID-PLANE OF THE ROOF AND HALF BELOW.

   CALCULATION: ROOF = 3,200 S.F., REQUIRED VENTILATION = 21.33 S.F. (OR 3,072 SQ. IN.)

SHEET KEYNOTES

102	STANDING SEAM METAL ROOF, COLOR BY OWNER; RE: A0303. ALIGN ROOF PENETRATIONS WHEREVER POSSIBLE TO MAXIMIZE SOLAR PANEL LAYOUT (BY OWNER).
104	ROOF PENETRATION; RE: A7003
105	METAL FASCIA AND TRIM (COLOR AND STYLE BY OWNER); RE: SPECIFICATIONS
156	SOLA-TUBE SKYLIGHT; RE: ROOF PLAN, A9505, AND SPECIFICATIONS
163	UPPER GUTTER TO DRAIN TO LOWER GUTTER

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - ROOF PLAN

DRAWN: BPB | CHECK: DT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 36

SHEET NO. A-102-F

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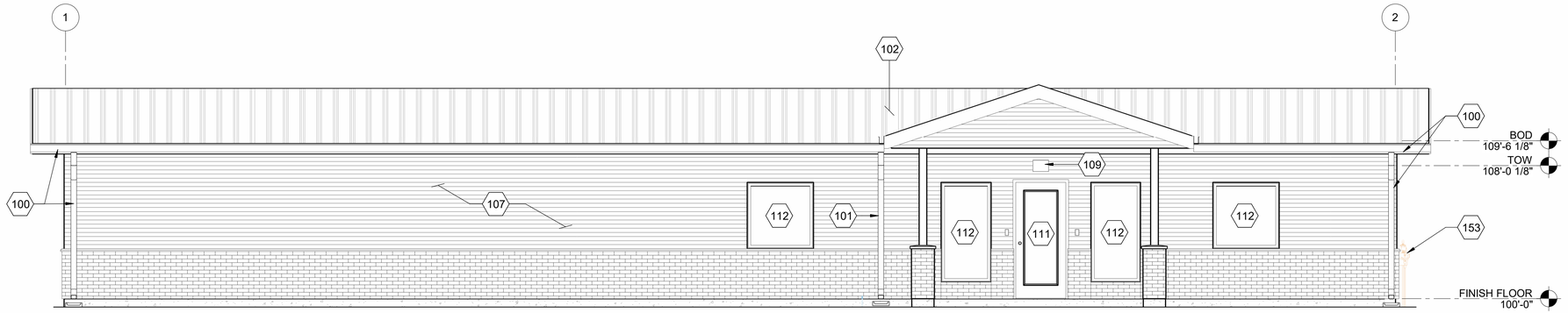
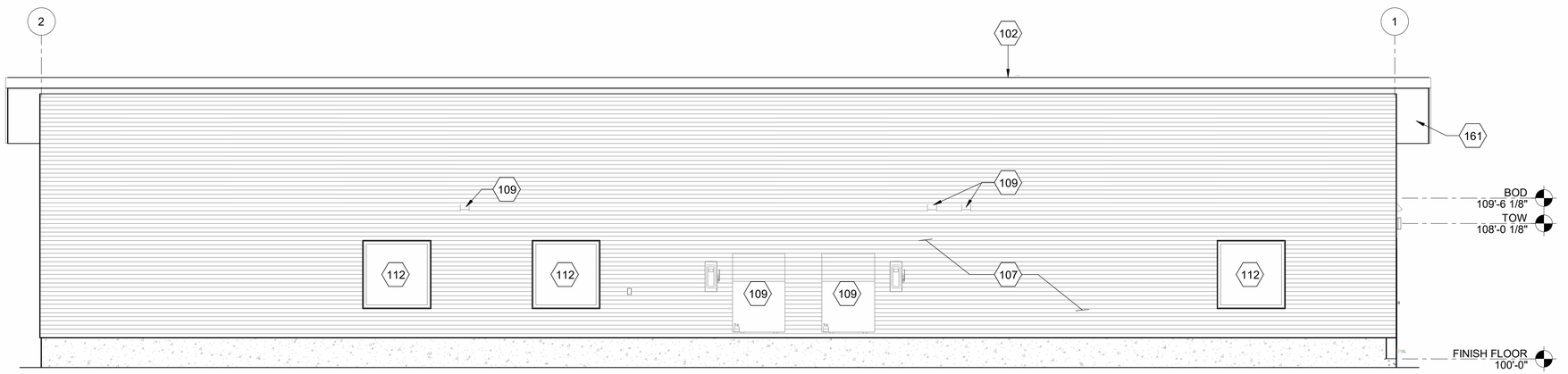


B1 SOUTH

1/4" = 1'-0"

1/4" 0 2' 4' 8'



A1 NORTH

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, & EQUIPMENT VENDORS.
2. DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR NOMINAL FACE OF MASONRY.
3. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
4. COORDINATE WITH BUILDING SECTIONS & STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
5. FINISHED FLOOR TO BE 6" ABOVE FINISHED GRADE

SHEET KEYNOTES

100	ALUMINUM GUTTER WITH DOWNSPOUT AND SPLASH BLOCK; RE: A0329, A0331 & A0333
101	SPLASH BLOCK & DOWNSPOUT; RE: A0329
102	STANDING SEAM METAL ROOF, COLOR BY OWNER; RE: A0303. ALIGN ROOF PENETRATIONS WHEREVER POSSIBLE TO MAXIMIZE SOLAR PANEL LAYOUT (BY OWNER).
107	CEMENTITIOUS SIDING; FINAL COLOR SELECTION BY OWNER, RE: SPECIFICATIONS
109	MECHANICAL/ELECTRICAL EQUIPMENT; RE: MECHANICAL/ELECTRICAL
111	ENTRY SWINGING DOOR; RE: DOOR SCHEDULE A-601-F
112	WINDOW; RE: WINDOW SCHEDULE A-601-F
153	NEW NATURAL GAS SERVICE FOR BUILDING; RE: CIVIL
161	PREFINISHED PERFORATED ALUMINUM SOFFIT PANEL; RE: SPECIFICATIONS

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - ELEVATIONS

DRAWN: BPB | CHECK: DT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 37

SHEET NO. A-201-F

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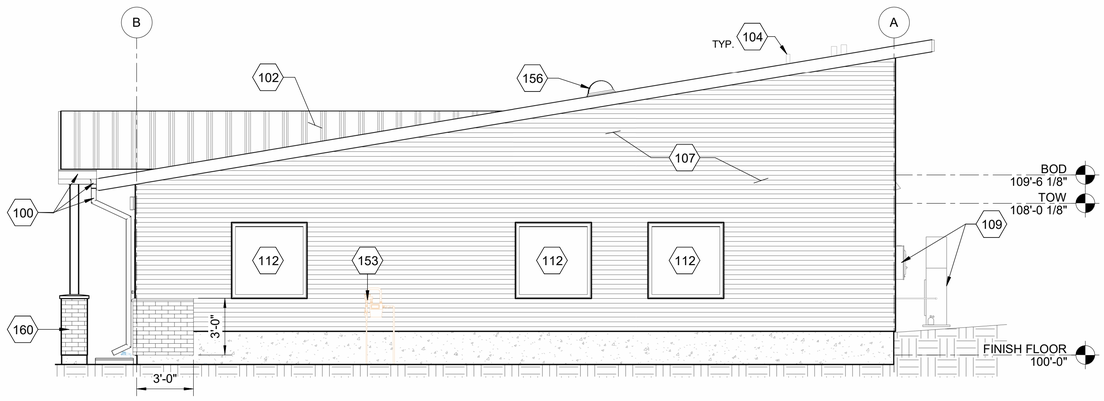
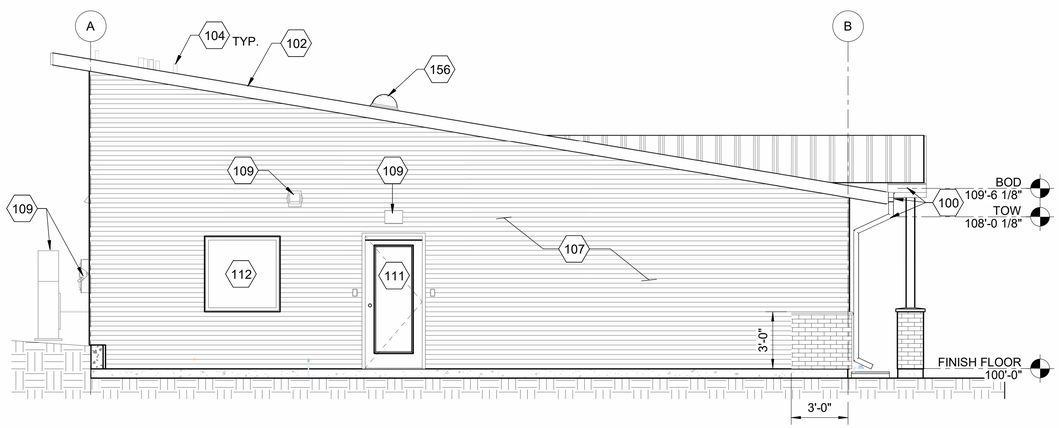


B2 EAST

1/4" = 1'-0"

1/4" 0 2' 4' 8'



A1 WEST

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, & EQUIPMENT VENDORS.
2. DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR NOMINAL FACE OF MASONRY.
3. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
4. COORDINATE WITH BUILDING SECTIONS & STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.
5. FINISHED FLOOR TO BE 6" ABOVE FINISHED GRADE

SHEET KEYNOTES

100	ALUMINUM GUTTER WITH DOWNSPOUT AND SPLASH BLOCK; RE: A0329, A0331 & A0333
102	STANDING SEAM METAL ROOF, COLOR BY OWNER; RE: A0303. ALIGN ROOF PENETRATIONS WHEREVER POSSIBLE TO MAXIMIZE SOLAR PANEL LAYOUT (BY OWNER).
104	ROOF PENETRATION; RE: A7003
107	CEMENTITIOUS SIDING; FINAL COLOR SELECTION BY OWNER, RE: SPECIFICATIONS
109	MECHANICAL/ELECTRICAL EQUIPMENT; RE: MECHANICAL/ELECTRICAL
111	ENTRY SWINGING DOOR; RE: DOOR SCHEDULE A-601-F
112	WINDOW; RE: WINDOW SCHEDULE A-601-F
153	NEW NATURAL GAS SERVICE FOR BUILDING; RE: CIVIL
156	SOLA-TUBE SKYLIGHT; RE: ROOF PLAN, A9505, AND SPECIFICATIONS
160	THIN BRICK VENEER WITH STONE CAP; RE: SPECIFICATIONS. RE: B1/A-101-F FOR COLUMN BASE DETAIL

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - ELEVATIONS

DRAWN: BPB CHECK: --

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 38

SHEET NO. A-202-F

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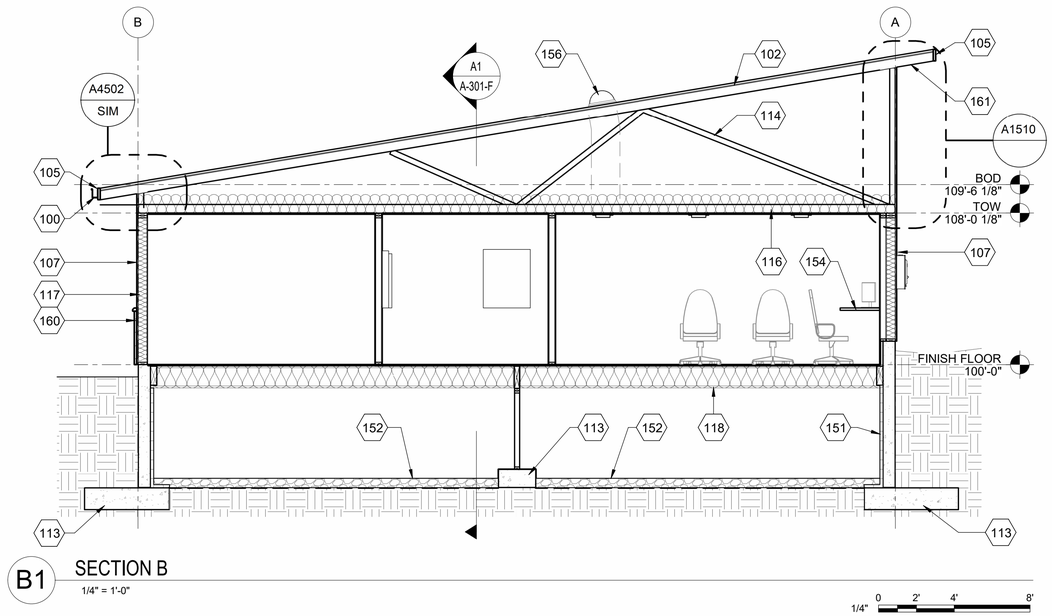
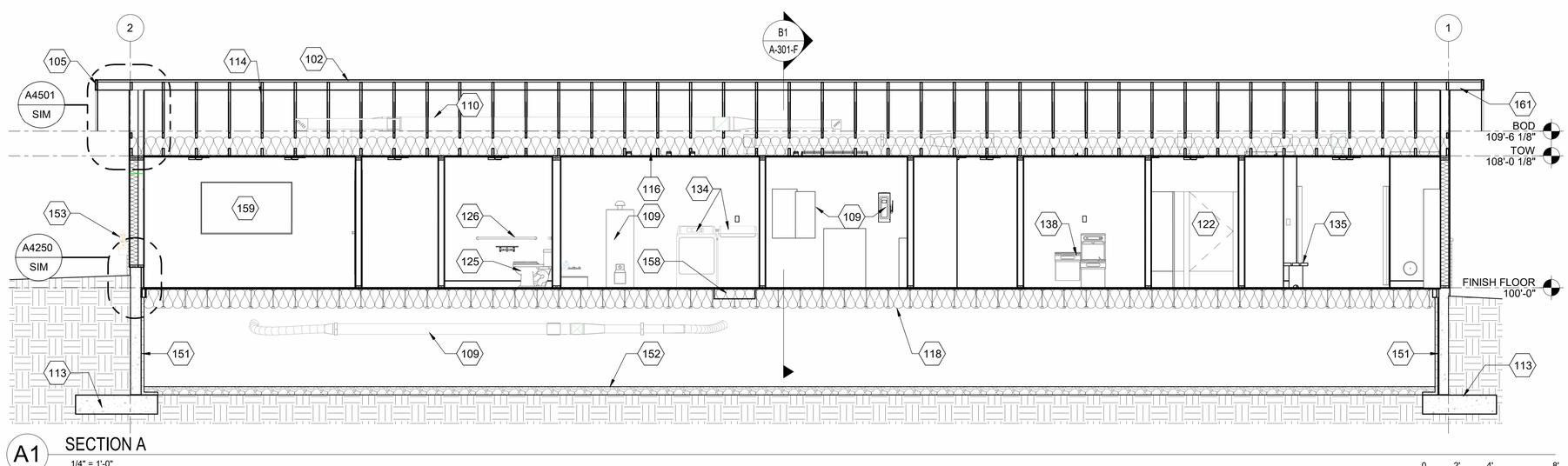


B1 SECTION B

1/4" = 1'-0"

1/4" 0 2' 4' 8'



A1 SECTION A

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. SEE TYPICAL DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPANCIES WITH THE ENGINEER, RE: STRUCTURAL FOR ADDITIONAL DIMENSIONS.

SHEET KEYNOTES

100	ALUMINUM GUTTER WITH DOWNSPOUT AND SPLASH BLOCK; RE: A0329, A0331 & A0333
102	STANDING SEAM METAL ROOF, COLOR BY OWNER; RE: A0303. ALIGN ROOF PENETRATIONS WHEREVER POSSIBLE TO MAXIMIZE SOLAR PANEL LAYOUT (BY OWNER).
105	METAL FASCIA AND TRIM (COLOR AND STYLE BY OWNER); RE: SPECIFICATIONS
107	CEMENTITIOUS SIDING; FINAL COLOR SELECTION BY OWNER, RE: SPECIFICATIONS
109	MECHANICAL/ELECTRICAL EQUIPMENT; RE: MECHANICAL/ELECTRICAL
110	HVAC EQUIPMENT; RE: HVAC
113	STRUCTURAL FOOTING; RE: STRUCTURAL
114	PRE-ENGINEERED WOOD TRUSS: RE: STRUCTURAL
116	BATT INSULATION IN ATTIC, RE: A4501, A4502 AND SPECIFICATIONS
117	BATT INSULATION IN EXTERIOR WALL CAVITY, RE: A4501, A4502 AND SPECIFICATIONS
118	BATT INSULATION IN FLOOR FRAMING CAVITY, RE: COMCHECK A-602-F AND SPECIFICATIONS
122	STANDARD TOILET PARTITION; RE: SPECIFICATIONS
125	ADA COMPLIANT TOILET; RE: PLUMBING AND A8500
126	ADA COMPLIANT GRAB BARS; RE: A8500 AND SPECIFICATIONS
134	WASHER/DRYER; PROVIDED BY OWNER. RE: PLUMBING/HVAC
135	ADA COMPLIANT BENCH; RE: A8500 AND SPECIFICATIONS
138	ADA COMPLIANT DRINKING FOUNTAIN; RE: SPECIFICATIONS
151	INSULATION ATTACHED TO FACE OF FOUNDATION WALL, RE: COMCHECK A-602-F FOR R- VALUES. CONTINUE INSULATION OVER FOOTING TO VAPOR BARRIER. RE: SPECIFICATIONS FOR VAPOR BARRIER AND INSULATION
152	15 MIL VISQUEEN VAPOR BARRIER OVER 6" CRUSHED GRAVEL FILL OVER PROPERLY PREPARED SUB BASE IN CRAWL SPACE, RE: SPECIFICATIONS AND CIVIL PLANS
153	NEW NATURAL GAS SERVICE FOR BUILDING; RE: CIVIL
154	COUNTERTOP BY CONTRACTOR; RE: A9000
156	SOLA-TUBE SKYLIGHT; RE: ROOF PLAN, A9505, AND SPECIFICATIONS
158	CRAWLSPACE ACCESS; RE: STRUCTURAL
159	WALL MOUNTED TV, PROVIDE BLOCKING IN WALL FOR MOUNTING HARDWARE & RE: ELECTRICAL
160	THIN BRICK VENEER WITH STONE CAP; RE: SPECIFICATIONS. RE: B1/A-101-F FOR COLUMN BASE DETAIL
161	PREFINISHED PERFORATED ALUMINUM SOFFIT PANEL; RE: SPECIFICATIONS

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - BUILDING SECTIONS

DRAWN: BPB | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 39

SHEET NO. A-301-F

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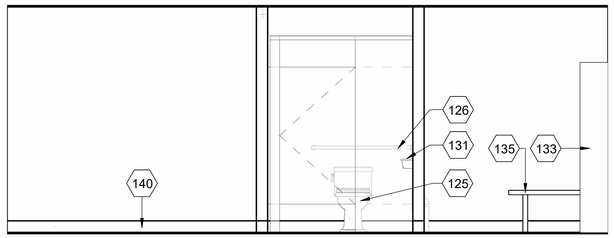
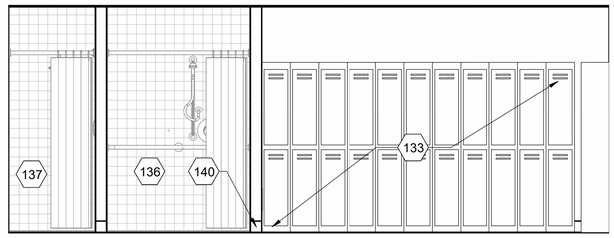


C1 WOMENS LOCKER ELEV A

3/8" = 1'-0"

3/8" 0 2' 4' 6'



B1 MENS LOCKER ELEV E

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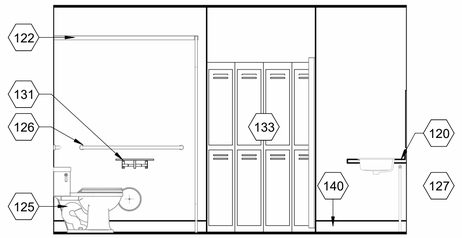

C2 WOMENS LOCKER ELEV B

3/8" = 1'-0"

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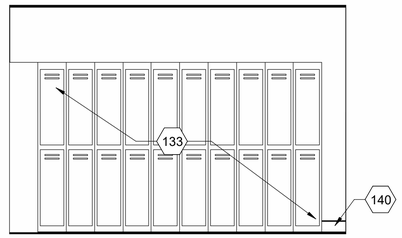

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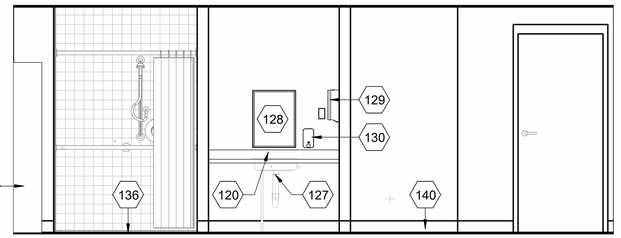
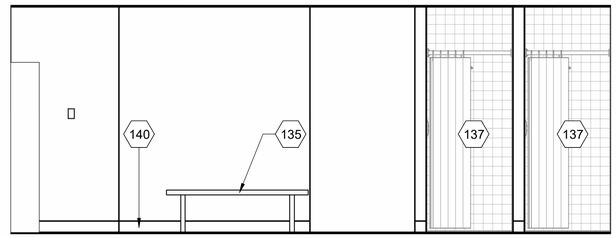


C3 WOMENS LOCKER ELEV C

3/8" = 1'-0"

3/8" 0 2' 4' 6'



B3 MENS LOCKER ELEV D

3/8" = 1'-0"

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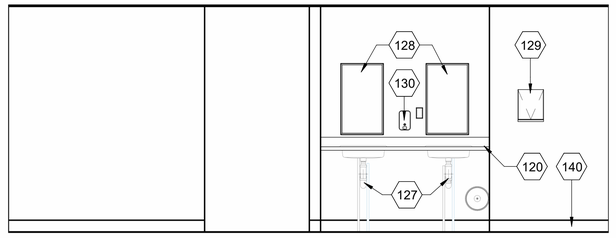

A4 MENS LOCKER ELEV C

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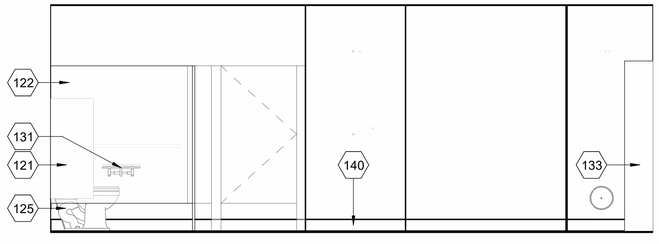

A3 MENS LOCKER ELEV B

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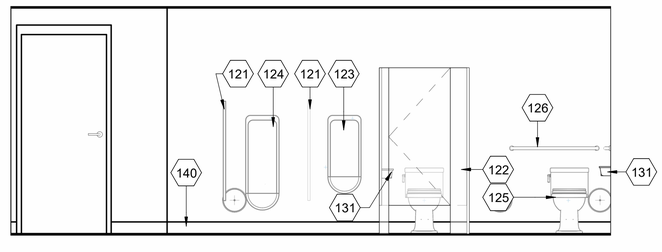
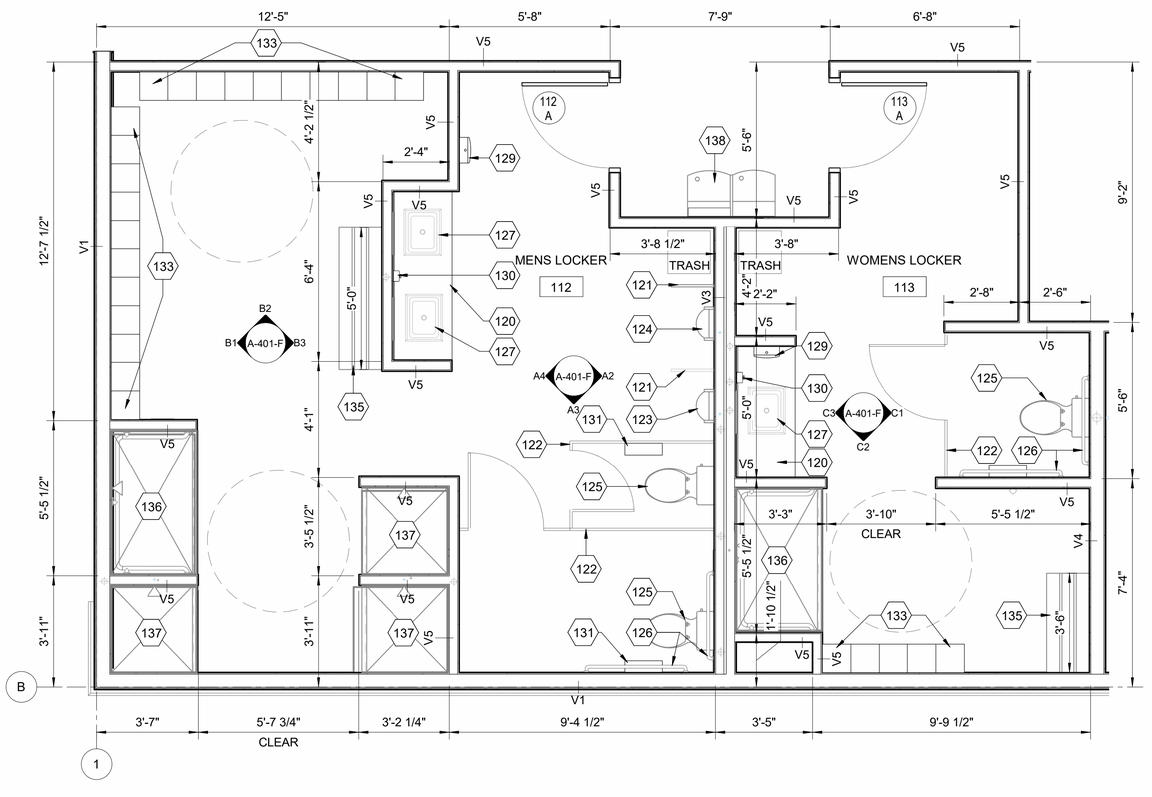


A2 MENS LOCKER ELEV A

3/8" = 1'-0"

3/8" 0 2' 4' 6'



A1 LOCKER ROOM ENLARGED FLOOR PLAN

3/8" = 1'-0"

3/8" 0 2' 4' 6'

GENERAL SHEET NOTES

1. DIMENSIONS ARE TO NOMINAL FACE OF WOOD STUDS OR GRIDLINES.
2. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, AND EQUIPMENT VENDORS.
3. COORDINATE WITH CIVIL DRAWINGS FOR EXTERIOR SLAB INFORMATION.
4. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
5. COORDINATE FINISH FLOOR ELEVATIONS WITH STRUCTURAL & CIVIL DRAWINGS.
6. FOR INTERIOR FINISH, SEE ROOM FINISH SCHEDULE ON A-601-F.
7. DIMENSIONS OF LOUVER AND FAN OPENINGS TO BE VERIFIED BY CONTRACTOR

SHEET KEYNOTES

120	MELAMINE FACED COUNTERTOP WITH BACKSPLASH; RE: A9000
121	URINAL PARTITION; RE: SPECIFICATIONS
122	STANDARD TOILET PARTITION; RE: SPECIFICATIONS
123	URINAL AT STANDARD MOUNTING HEIGHT; RE: A8500 AND PLUMBING
124	URINAL AT ADA MOUNTING HEIGHT; RE: A8500 AND PLUMBING
125	ADA COMPLIANT TOILET; RE: PLUMBING AND A8500
126	ADA COMPLIANT GRAB BARS; RE: A8500 AND SPECIFICATIONS
127	ADA COMPLIANT SINK; RE: PLUMBING AND A8500. INSULATE PIPES AS REQ.
128	WALL MOUNTED MIRROR; RE: A8500 AND SPECIFICATIONS
129	WALL MOUNTED PAPER TOWEL DISPENSER; RE: A8500 AND SPECIFICATIONS
130	SOAP DISPENSER; RE: A8500 AND SPECIFICATIONS
131	TOILET TISSUE DISPENSER; RE: A8500 AND SPECIFICATIONS
133	METAL LOCKERS PROVIDED BY OWNER
135	ADA COMPLIANT BENCH; RE: A8500 AND SPECIFICATIONS
136	ADA COMPLIANT SHOWER INSERT; RE: PLUMBING
137	STANDARD SHOWER INSERT; RE: PLUMBING
138	ADA COMPLIANT DRINKING FOUNTAIN; RE: SPECIFICATIONS
140	RESILIENT BASE; RE: SPECIFICATIONS

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.03.31 14:56:28 -07'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - ENLARGED PLANS AND INTERIOR ELEVATIONS

DRAWN: BPB | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 40

SHEET NO. A-401-F

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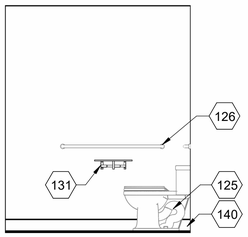
GENERAL SHEET NOTES

1. DIMENSIONS ARE TO NOMINAL FACE OF WOOD STUDS OR GRIDLINES.
2. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, AND EQUIPMENT VENDORS.
3. COORDINATE WITH CIVIL DRAWINGS FOR EXTERIOR SLAB INFORMATION.
4. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
5. COORDINATE FINISH FLOOR ELEVATIONS WITH STRUCTURAL & CIVIL DRAWINGS.
6. FOR INTERIOR FINISH, SEE ROOM FINISH SCHEDULE ON A-601-F.
7. DIMENSIONS OF LOUVER AND FAN OPENINGS TO BE VERIFIED BY CONTRACTOR

SHEET KEYNOTES

119	MELAMINE FACED COUNTERTOP WITHOUT BACKSPLASH; RE: A9000 (SIMILAR)
120	MELAMINE FACED COUNTERTOP WITH BACKSPLASH; RE: A9000
125	ADA COMPLIANT TOILET; RE: PLUMBING AND A8500
126	ADA COMPLIANT GRAB BARS; RE: A8500 AND SPECIFICATIONS
127	ADA COMPLIANT SINK; RE: PLUMBING AND A8500. INSULATE PIPES AS REQ.
128	WALL MOUNTED MIRROR; RE: A8500 AND SPECIFICATIONS
129	WALL MOUNTED PAPER TOWEL DISPENSER; RE: A8500 AND SPECIFICATIONS
130	SOAP DISPENSER; RE: A8500 AND SPECIFICATIONS
131	TOILET TISSUE DISPENSER; RE: A8500 AND SPECIFICATIONS
140	RESILIENT BASE; RE: SPECIFICATIONS
141	BASE CABINET; RE: A9001
143	BASE CABINET WITH SINK ABOVE; RE: A9003
144	UPPER WALL CABINET; RE: A9004
145	UNDER COUNTER DISHWASHER; RE: SPECIFICATIONS
147	ELECTRIC RANGE PROVIDED BY OWNER
148	REFRIGERATOR WITH ICE MAKER BY OWNER; RE PLUMBING
149	BREAK ROOM SINK; RE: PLUMBING
150	OWNER PROVIDED EQUIPMENT
159	WALL MOUNTED TV, PROVIDE BLOCKING IN WALL FOR MOUNTING HARDWARE & RE: ELECTRICAL
164	CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR RELOCATION OF EXISTING CABINETRY AND COORDINATE FINAL LOCATIONS AND CABINETRY SIZE PRIOR TO CONSTRUCTION

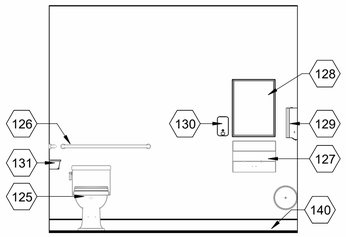
DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE



C1 RR ELEV A

3/8" = 1'-0"

3/8" 0 2' 4' 6'



C2 RR ELEV B

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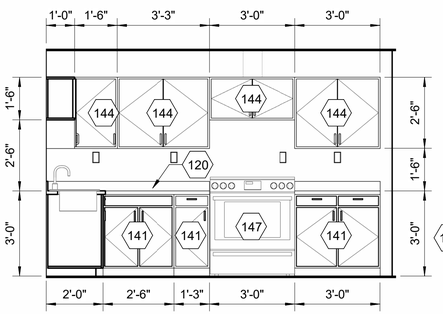

B1 BREAK ELEV A

3/8" = 1'-0"

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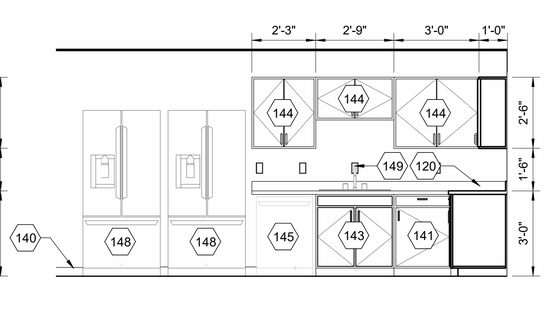
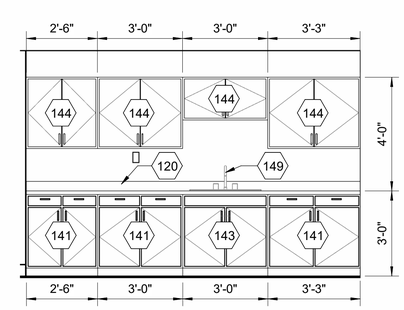


B2 BREAK ELEV B

3/8" = 1'-0"

3/8" 0 2' 4' 6'



B3 COFFEE BAR ELEV

3/8" = 1'-0"

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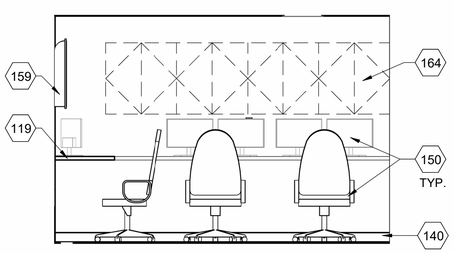

A1 OPERATIONS ROOM ELEV A

3/8" = 1'-0"

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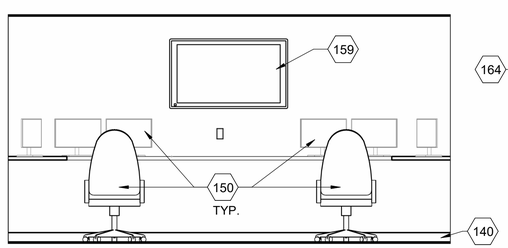

A2 OPERATIONS ROOM ELEV B

3/8" = 1'-0"

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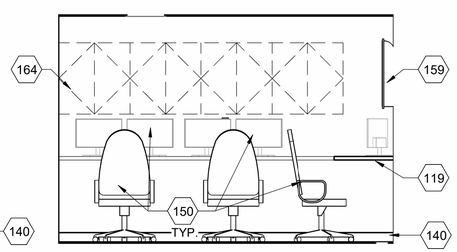

A3 OPERATIONS ROOM ELEV C

3/8" = 1'-0"

3/8" 0 2' 4' 6'

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed: 2026.05.01 14:52:26 -07'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - INTERIOR ELEVATIONS

DRAWN: BPB | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 41

SHEET NO. A-402-F

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ROOM SCHEDULE												
NUMBER	NAME	FLOOR MATERIAL	FLOOR FINISH	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	NOTES
101	LOBBY	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
102	OFFICE	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
103	CONFERENCE	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
104	HALL	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
105	RR	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
106	OFFICE	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
107	JANITOR/HVAC	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
108	OFFICE	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
109	IT/ELEC.	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
110	OPERATIONS	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
111	KITCHEN/BREAK	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
112	MENS LOCKER	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
113	WOMENS LOCKER	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	
114	STORAGE	WD-1	VT-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	WD-1	GYP-1	

KEYLIST:
*SEE SPECIFICATIONS FOR MATERIAL AND FINISH SELECTIONS. PROVIDE RESILIENT BASE IN ALL ROOMS PER SPECIFICATIONS.

BASE:
WD-1 = WOOD FRAMING

FINISH:
GYP-1 = PAINTED GYPSUM BOARD
VT-1 = VINYL PLANK/TILE

CEILING:
DA-1 = DENSARMOR 5/8" GYPSUM PANEL

DOOR SCHEDULE													
DOOR NUMBER	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR FINISH	DOOR FRAME WIDTH	DOOR FRAME HEIGHT	DOOR FRAME MATERIAL	DOOR FRAME FINISH	DOOR HARDWARE SET	DOOR HEAD DETAIL	DOOR JAMB DETAIL	DOOR SILL DETAIL	NOTES
101	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	6	A4004	A4005	A0203	PROVIDE ENTRY LOCKSET WITH DEADBOLT
102	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	PROVIDE OFFICE LOCKSET
103	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	
104	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	
105	A	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	PROVIDE PRIVACY LOCKSET
106	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	PROVIDE OFFICE LOCKSET
107	A	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	PROVIDE 2" UNDERCUT
108	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	PROVIDE OFFICE LOCKSET
109	A	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	
111	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	6	A4004	A4005	A0203	
112	A	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	7	A4006	A4007	--	
113	A	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	7	A4006	A4007	--	
114	B	3'-0"	7'-0"	1 3/4"	NOTE 4	3'-4"	7'-4"	STEEL	NOTE 3	5	A4006	A4007	--	PROVIDE ENTRY LOCKSET WITH DEADBOLT

1. HARDWARE IS PER SECTION 08 71 00 - DOOR HARDWARE.
2. FOR DOOR TYPE RE: A0200
3. HOT DIP GALVANNEAL, FACTORY PRIME PER SPECIFICATION 08 11 13 AND FIELD COATED PER SPECIFICATION 09 90 00. FINISH COLOR TO BE SELECTED BY OWNER.
4. SOLID CORE WOOD DOOR WITH BIRCH VENEER (OR OWNER APPROVED EQ.), PREPARE AND FIELD COAT PER SPECIFICATION 08 14 16

MARK	SIZE			DETAILS		HEAD ELEVATION	NOTES
	TYPE	WIDTH	HEIGHT	JAMB/HEAD	SILL		
A	A	3'-0"	6'-0"	A4127	A4127	107'-0"	
B	B	4'-0"	4'-0"	A4127	A4127	107'-0"	

NOTE:
1. FOR WINDOW TYPE RE: A0250

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BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - ARCHITECTURAL SCHEDULES

DRAWN: BPB | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001
PAGE 42

SHEET NO. A-601-F

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Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2022) Standard
Project Title:	Pendleton Administration Building
Location:	Pendleton, Oregon
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	0.077
Performance Sim. Specs:	EnergyPlus 24.1.0 (EPW:)
Project Sub Type:	New Building/Complete

Construction Site:

4300 SW 28th Dr
Pendleton , Oregon 97801

Owner/Agent:

City of Pendleton

Oregon 97801

Designer/Contractor:

Bret Bartron
Keller Associates
Meridian , Idaho 83634

bbartron@kellerassociates.com

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof:Roof, Exterior Envelope, [Bldg. Use 1 - Office]	3200	49.00	0.00	0.021	0.021
Floor:Floor, Exterior Envelope, [Bldg. Use 1 - Office]	3200	38.00	0.00	0.026	0.033
NORTH					
Ext Wall:Ext Wall, Exterior Envelope, [Bldg. Use 1 - Office]	618	21.00	0.00	0.062	0.051
Window:Window, Perf. Specs.: Product ID na, SHGC 0.30, VT 0.10, Exterior Envelope, [Bldg. Use 1 - Office] (b)	48	---	---	0.350	0.360
Ext Wall:Ext Wall 4, Medium Density, Furring: Metal, Exterior Envelope, [Bldg. Use 1 - Office]	50	6.00	0.00	0.196	0.090
EAST					
Ext Wall:Ext Wall 1, Exterior Envelope, [Bldg. Use 1 - Office]	320	21.00	0.00	0.062	0.051
Window:Window 1, Perf. Specs.: Product ID na, SHGC 0.30, VT 0.10, Exterior Envelope, [Bldg. Use 1 - Office] (b)	48	---	---	0.350	0.360
SOUTH					
Ext Wall:Ext Wall 2, Exterior Envelope, [Bldg. Use 1 - Office]	718	21.00	0.00	0.062	0.051
Window:Window 1 1, Perf. Specs.: Product ID na, SHGC 0.30, VT 0.10, Exterior Envelope, [Bldg. Use 1 - Office] (b)	48	---	---	0.350	0.360
Door:Door 1, Swinging, Exterior Envelope, [Bldg. Use 1 - Office]	21	---	---	0.300	0.370
WEST					
Ext Wall:Ext Wall 3, Exterior Envelope, [Bldg. Use 1 - Office]	270	21.00	0.00	0.062	0.051
Window:Window 1 1 1, Perf. Specs.: Product ID na, SHGC 0.30, VT 0.10, Exterior Envelope, [Bldg. Use 1 - Office] (b)	16	---	---	0.350	0.360
Door:Door, Swinging, Exterior Envelope, [Bldg. Use 1 - Office]	21	---	---	0.300	0.370
Ext Wall:Ext Wall 4 1, Medium Density, Furring: Metal, Exterior Envelope, [Bldg. Use 1 - Office]	100	6.00	0.00	0.196	0.090

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

Envelope PASSES: Design 0.2% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2022) Standard requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

BRET BARTRON - SENIOR
ARCHITECTURAL DESIGNER — 2/3/26

Name - Title	Signature	Date

BRET BARTRON - SENIOR
ARCHITECTURAL DESIGNER — 2/3/26

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - COMCHECK REPORT

DRAWN: BPB | CHECK: --

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 43

SHEET NO. A-602-F

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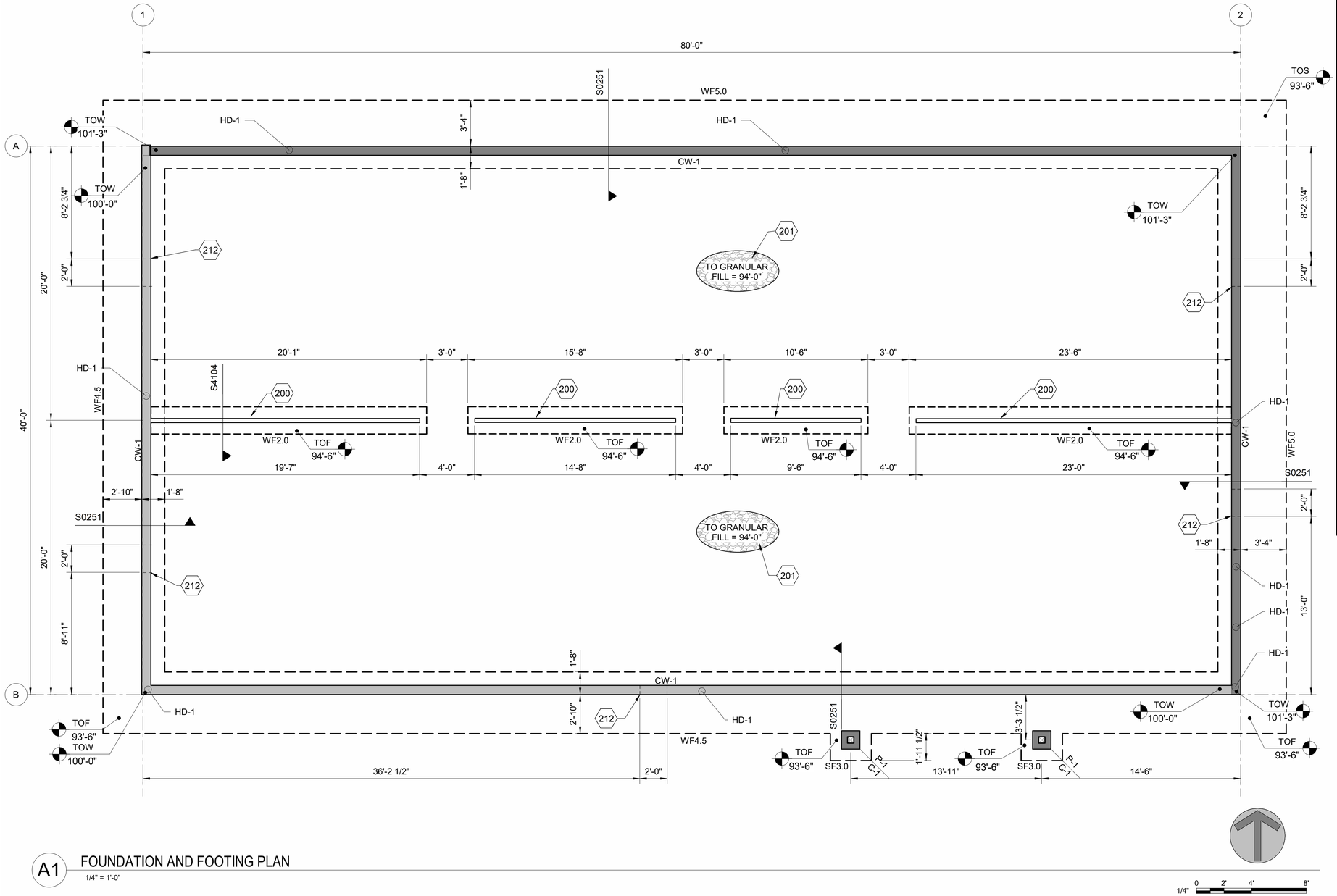

A1 FOUNDATION AND FOOTING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

STRUCTURE "F" REF ELEV FINISH FLOOR
100'-0" = RE: CIVIL

FOUNDATION NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPANCIES WITH THE ENGINEER, RE: ARCH FOR ADDITIONAL DIMENSIONS.
3. FINISH GRADE IN CRAWL SPACE = 94'-0"
4. TOP OF FOOTING ELEVATION IS 93'-6" UNO
5. CONTRACTOR TO VERIFY LOCATION OF ALL INSERTS IN FOUNDATION WITH APPROVED MECHANICAL, PLUMBING, CIVIL AND ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
6. GRIDLINES ARE TO OUTSIDE FACE OF CONCRETE STEM WALL AND OUTSIDE FACE OF STUDS.
7. FOR WOOD WALL, HOLDOWN AND WOOD SHEAR WALL INFORMATION, RE: S-102-F

SHEET KEYNOTES

200 2X4 DF#2 CRIPPLE WALL STUDS AT 16" OC

201 15 MIL VISQUEEN VAPOR BARRIER OVER 6" CRUSHED GRAVEL FILL OVER PROPERLY PREPARED SUB BASE IN CRAWL SPACE, RE: SPECIFICATIONS AND CIVIL PLANS

212 24" WIDE x 8" TALL WALL PENETRATION FOR CRAWL SPACE VENTILATON- VENT TO BE SELECTED AND SUBMITTED FOR REVIEW BY CONTRACTOR. LOCATE TOP OF WALL PENETRATION AT ELEVATION 98'-9" AND PROVIDE (2) #5 HORIZONTAL BARS ABOVE AND BELOW OPENING EXTENDING 24" BEYOND EACH EDGE. FOR EXTERIOR VENT WELL AND COVER INFORMATION; RE: C-113-F

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

WF #	WALL FOOTING, RE: SCHEDULE BELOW
CW-#	CONCRETE WALL, RE: SCHEDULE BELOW
HD-#	SHEAR WALL HOLDOWN, FOR ADDITIONAL INFORMATION; RE: S-102-F

CONCRETE WALL SCHEDULE

MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	NOTES
CW-1	8"	#5 @ 6" OC	#5 @ 6" OC	CENTERED

NOTE: FOR REINFORCING REQUIREMENTS AT CORNERS, RE: S0003 AND FOR LAP LENGTHS, RE: S0005

FOOTING SCHEDULE

MARK	SIZE			BOTTOM REINFORCING	TOP REINFORCING
	WIDTH	LENGTH	THICK		
WF2.0	2'-0"	CONT.	1'-0"	(3) #5 BARS CONT.	NONE
WF4.5	4'-6"	CONT.	1'-2"	(4) #5 BARS CONT.	NONE
WF5.0	5'-0"	CONT.	1'-2"	(4) #5 BARS CONT.	NONE
SF3.0	3'-0"	3' 0"	1'-0"	(4) #5 BARS EW	NONE

PIER SCHEDULE

MARK	SIZE	DETAILS	NOTES
P-1	16 x 16	S0606	TOP OF PIER = 100' - 0"

COLUMN SCHEDULE

MARK	COLUMN	DETAILS	NOTES
C-1	6x6 DF#1	SIMPSON ABA	S0606

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - FOUNDATION AND FOOTING PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 44

SHEET NO. S-101-F

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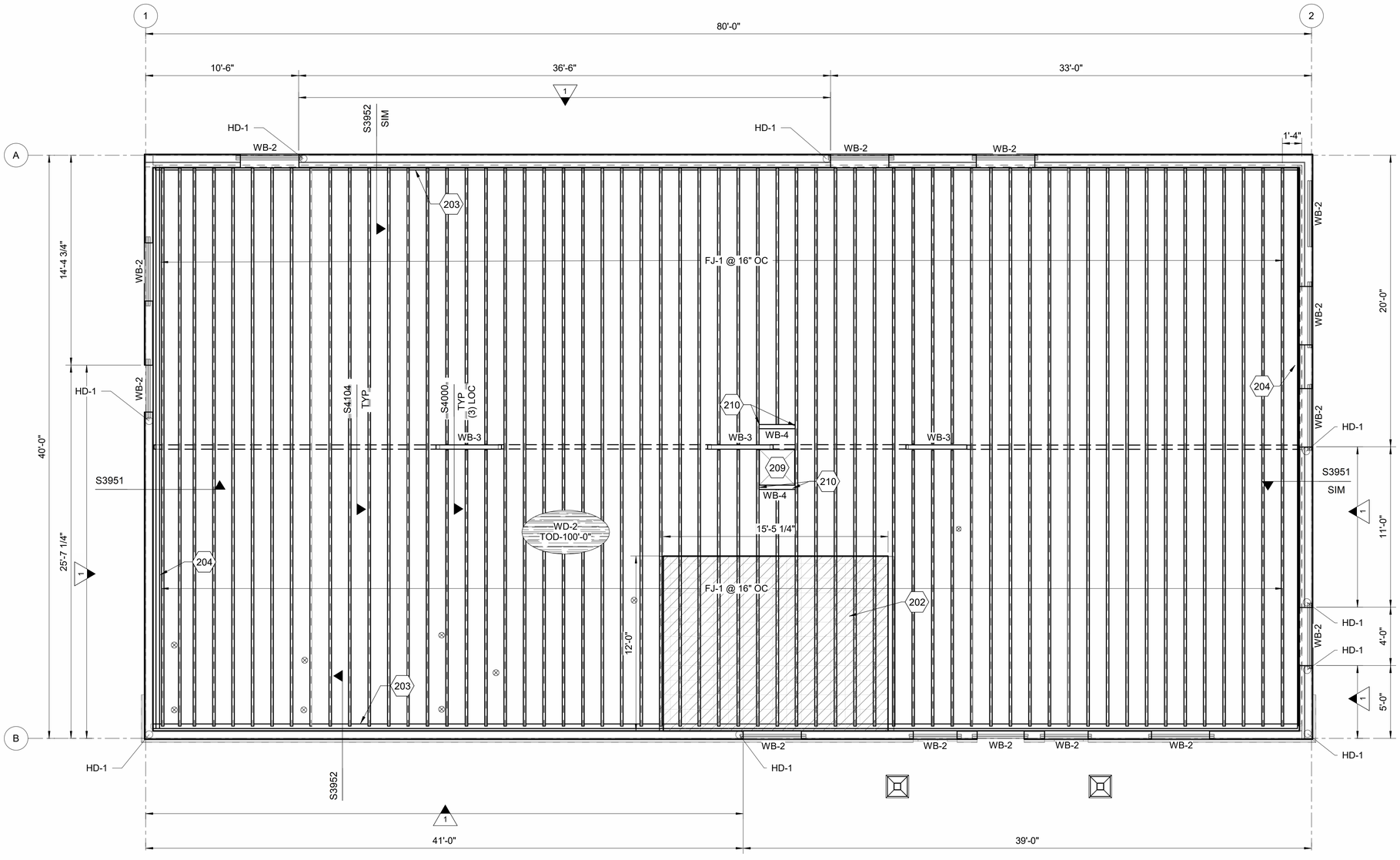

A1 FLOOR, WALL AND SHEAR WALL PLAN

1/4" = 1'-0"

GENERAL SHEET NOTES

1. ALL EXTERIOR WOOD WALL SHALL BE 2X6 DF#2 @ 16" OC UNO. RE: S8102
2. TOP OF DOUBLE TOP PLATE AT EXTERIOR WALL =108'-0 1/8"
3. WHERE SPLICE OCCURS IN DOUBLE TOP PLATE. RE: S8103.
4. GRIDLINES ARE TO OUTSIDE FACE OF CONCRETE STEM WALL AND OUTSIDE FACE OF STUDS.

SHEET KEYNOTES

202 THE HATCHED AREA WITHIN STORAGE ROOM INDICATES AREA WHERE FLOOR JOISTS SHALL BE DESIGNED FOR A 125 PSF LIVE LOAD, FOR DIMENSIONING; RE: ARCH

203 4X12 PRESSURE TREATED WOOD LEDGER, RE: S3952

204 3X6 PRESSURE TREATED WOOD LEDGER, RE: S3951

209 FLOOR ACCESS HATCH 26" MIN X 30"

210 JOIST MANUFACTURER TO DESIGN FLOOR JOIST W/ SIMPSON HU HANGER RATED FOR 1700# DEAD AND LIVE LOAD AT HEADER BEARING

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

TOD	TOP OF DECK
FJ-#	FLOOR JOIST; RE: SCHEDULE BELOW
WB-#	WOOD BEAM; RE: SCHEDULE BELOW
WD-#	WOOD DECK; RE: SCHEDULE BELOW
#	SHEAR WALL; RE: SCHEDULE BELOW
HD-#	SHEAR WALL HOLDOWN; RE: SCHEDULE BELOW
⊗	PIPE PENETRATION; RE: MECHANICAL PLUMBING

FLOOR JOIST SCHEDULE

MARK	DEPTH	JOIST TYYPE	DEAD LOAD	LIVE LOAD	NOTES
FJ-1	14"	PRE-ENGINEERED WOOD "I" JOIST	20	80	1, 2, 3, 4 & 5

NOTES:
1. JOISTS SHALL BE DESIGNED AS A DEFERRED SUBMITTAL FOR THE LOADS INDICATED.
2. DEAD LOAD INDICATED IN SCHEDULE IS THE COLLATERAL DEAD LOAD APPLIED TO THE JOIST AND DOES NOT INCLUDE THE WEIGHT OF THE JOIST
3. LIVE LOAD INDICATED IN SCHEDULE IS THE TYPICAL FLOOR LIVE LOAD APPLIED TO THE JOIST. SEE PLANS FOR AREAS WHERE LIVE LOAD IS TO BE MODIFIED FROM THE TYPICAL LIVE LOAD.
4. IN ADDITION TO ALL LOADS INDICATED, THE JOIST MANUFACTURER SHALL DESIGN EACH JOIST FOR A 150# CONCENTRATED LOAD AT ANY LOCATION ALONG THE LENGTH OF JOIST
5. JOISTS SHALL BE DESIGNED FOR A MAXIMUM LIVE LOAD DEFLECTION OF L/480 AND A MAXIMUM TOTAL LOAD DEFLECTION OF L/360

WOOD DECK SCHEDULE

MARK	SHEATHING REQUIREMENTS THICK	SPAN RATING	NAILING REQUIREMENTS NAIL/ SCREWS	EDGES & BOUNDARY ELEMENTS	CONT PANEL JOINTS	NON-CONT PANEL JOINTS	FIELD SPACING	BLOCKING REQUIREMENTS
WD-2	3/4"	40/20	10d	6" OC	6" OC	6" OC	12" OC	NO

NOTES
1. FOR ADDITIONAL INFORMATION RE: S8100
2. CONTINUOUSLY GLUE WOOD FLOOR DECK TO WOOD FLOOR JOISTS; RE: SPECIFICATIONS 06 10 00 ROUGH CARPENTRY

PLYWOOD SHEAR WALL SCHEDULE

MARK	SHEATHING	FASTENERS EDGE	FASTENERS FIELD	SILL PLATE BOLT/NAILS
1	7/16 (1) SIDE	8d @ 4" OC	8d @ 12" OC	1/2" ⌀ AB @ 16" OC

HOLDDOWN SCHEDULE

MARK	TYPE	NOTES
HD-1	HDUE3 w/ (7) 1/4" x 3" SDS SCREWS	5/8" SIMPSON SSTB16 ANCHOR

NOTES:
1. FOR ADDITIONAL INFORMATION, RE: S0302

BEAM SCHEDULE

MARK	BEAM	NOTES
WB-2	(3) 2x10 DF #2	2 & 3
WB-3	3.5 x 14 PSL PARALLAM	4
WB-4	4x8 DF #2	

NOTES
1. PROVIDE (2) TRIMMER STUDS AND AND (1) KING STUD AT HEADER BEARING
2. PROVIDE (2) TRIMMER STUDS AND AND (2) KING STUDS AT HEADER BEARING
3. AT HEADER BEARING; RE: S8102
4. PROVIDE (3) BEARING STUDS AT BEAM BEARING; RE: S8102
5. AT HEADER BEARING; PROVIDE SIMPSON 'BA' SERIES HANGER, ATTACH TO WOOD I-JOIST

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - FLOOR, WALL & SHEAR WALL PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 45

SHEET NO. S-102-F

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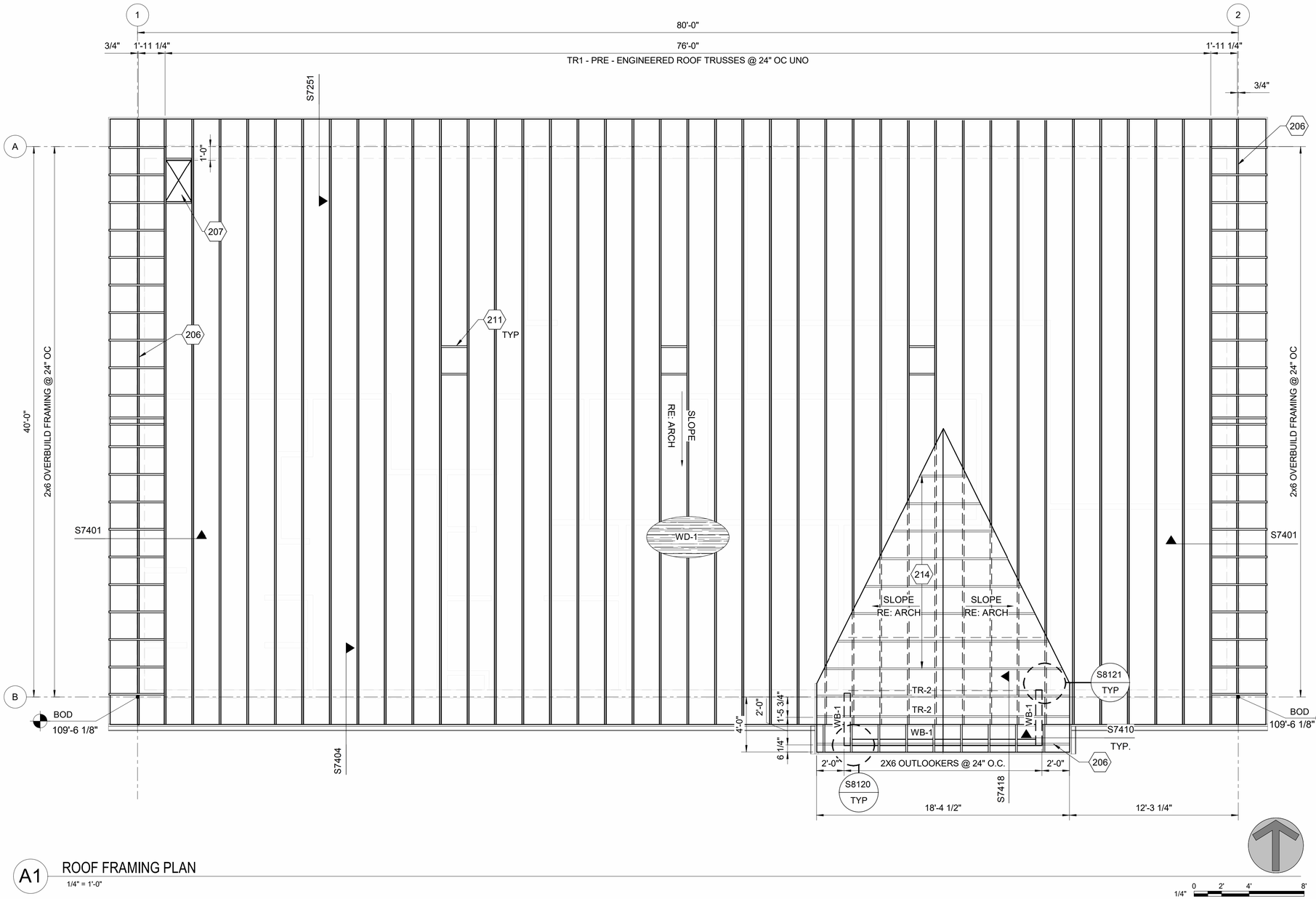


A1 ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING SHEET NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. FOR TYPICAL SMALL OPENINGS IN ROOF, RE: MECHANICAL AND S7523.
3. TEMPORARY BRACING FOR TRUSSES IS NOT SHOWN, BUT MUST BE INSTALLED PER THE REQUIREMENTS OF ANSI/TPI 1.
4. ALL PRE-ENGINEERED WOOD ROOF TRUSSES ARE TO BE DESIGNED BY THE MANUFACTURER ACCORDING TO THE FOLLOWING LOADING DIAGRAMS BELOW. ALL TRUSSES SHALL BE DESIGNED FOR AN ADDITIONAL 1500# (SERVICE LEVEL) DRAG LOAD DUE TO WIND OR SEISMIC.
5. FOR WOOD WALL, WOOD BEAM AND WOOD SHEAR WALL INFORMATION; RE: S-102-F
6. SEE ARCHITECTURAL PLAN TO VERIFY ALL ELEVATIONS.
7. CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPANCIES WITH THE ENGINEER.
8. PROVIDE FULL BEARING UNDER BEAMS AT WALL.
9. ALL HANGERS, CLIPS, AND STRAP CONNECTION ON THE PLANS AND DETAILS ARE SIMPSON STRONG TIE PRODUCTS, UNO.
10. GRIDLINES ARE TO OUTSIDE FACE OF CONCRETE STEM WALL AND OUTSIDE FACE OF STUDS.

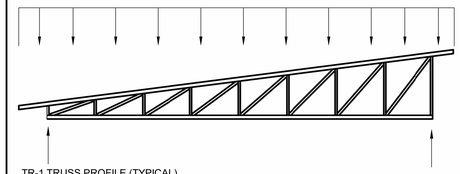
TR-1 TRUSS PROFILE DIAGRAM

TRUSS NOTES:

1. IN ADDITION TO ALL LOADS INDICATED, THE TRUSS MANUFACTURER SHALL DESIGN EACH TRUSS FOR A 250 # CONCENTRATED LOAD AT ANY LOCATION ALONG THE TRUSS TOP AND BOTTOM CHORD

TYPICAL TRUSS LOADING DIAGRAM

TOP CHORD DEAD LOAD = 16 PSF WHICH INCLUDES 7 PSF FOR SOLAR PANELS
SNOW LOAD = RE: GENERAL STRUCTURAL NOTES
BOTTOM CHORD DEAD LOAD = 8 PSF
NET WIND UPLIFT = 18 PSF (SERVICE LEVEL)



TR-1 TRUSS PROFILE (TYPICAL)

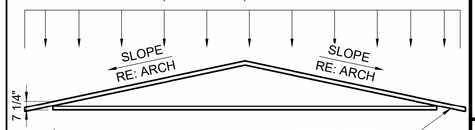
TR-2 TRUSS PROFILE DIAGRAM

TRUSS NOTES:

1. IN ADDITION TO ALL LOADS INDICATED, THE TRUSS MANUFACTURER SHALL DESIGN EACH TRUSS FOR A 250 # CONCENTRATED LOAD AT ANY LOCATION ALONG THE TRUSS TOP AND BOTTOM CHORD

TYPICAL TRUSS LOADING DIAGRAM

TOP CHORD DEAD LOAD = 24 PSF WHICH INCLUDES 7 PSF FOR SOLAR PANELS
SNOW LOAD = RE: GENERAL STRUCTURAL NOTES
BOTTOM CHORD DEAD LOAD = 8 PSF
NET WIND UPLIFT = 18 PSF (SERVICE LEVEL)



TR-2 TRUSS PROFILE (TYPICAL)

SHEET KEYNOTES

206 PRE-ENGINEERED GABLE END TRUSS

207 ATTIC ACCESS HATCH IN CEILING 22"x36" INSULATED ACCESS DOOR BY BEST ACCESS DOORS OR APPROVED EQUAL

211 FRAMED OPENINGS FOR SOLA-TUBE; RE: ARCH & S7523

214 PRE-ENGINEERED OVERBUILD TRUSSES @ 24" O.C. WITH SIMPSON LS30 CONNECTORS @ 24" O.C. ATTACHING TO THE BOTTOM CHORD OF THE OVERBUILD TRUSS TO THE BLOCKING IN THE STRUCTURE BELOW

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

WD-# WOOD DECK; RE: SCHEDULE BELOW

WOOD DECK SCHEDULE

SHEATHING REQUIREMENTS			NAILING REQUIREMENTS					
MARK	THICK	SPAN RATING	NAIL/ SCREWS	EDGES & BOUNDARY ELEMENTS	CONT PANEL JOINTS	NON-CONT PANEL JOINTS	FIELD SPACING	BLOCKING REQUIREMENTS
WD-1	5/8"	40/20	10d	6" OC	6" OC	6" OC	12" OC	NO

NOTE
FOR ADITIONAL INFORMATION; RE: S8100

BEAM SCHEDULE

MARK	BEAM	NOTES
WB-1	6x10 DF#1	BOTTOM OF BEAM = 109' - 0 5/8"

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - ROOF FRAMING PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 46

SHEET NO. S-103-F

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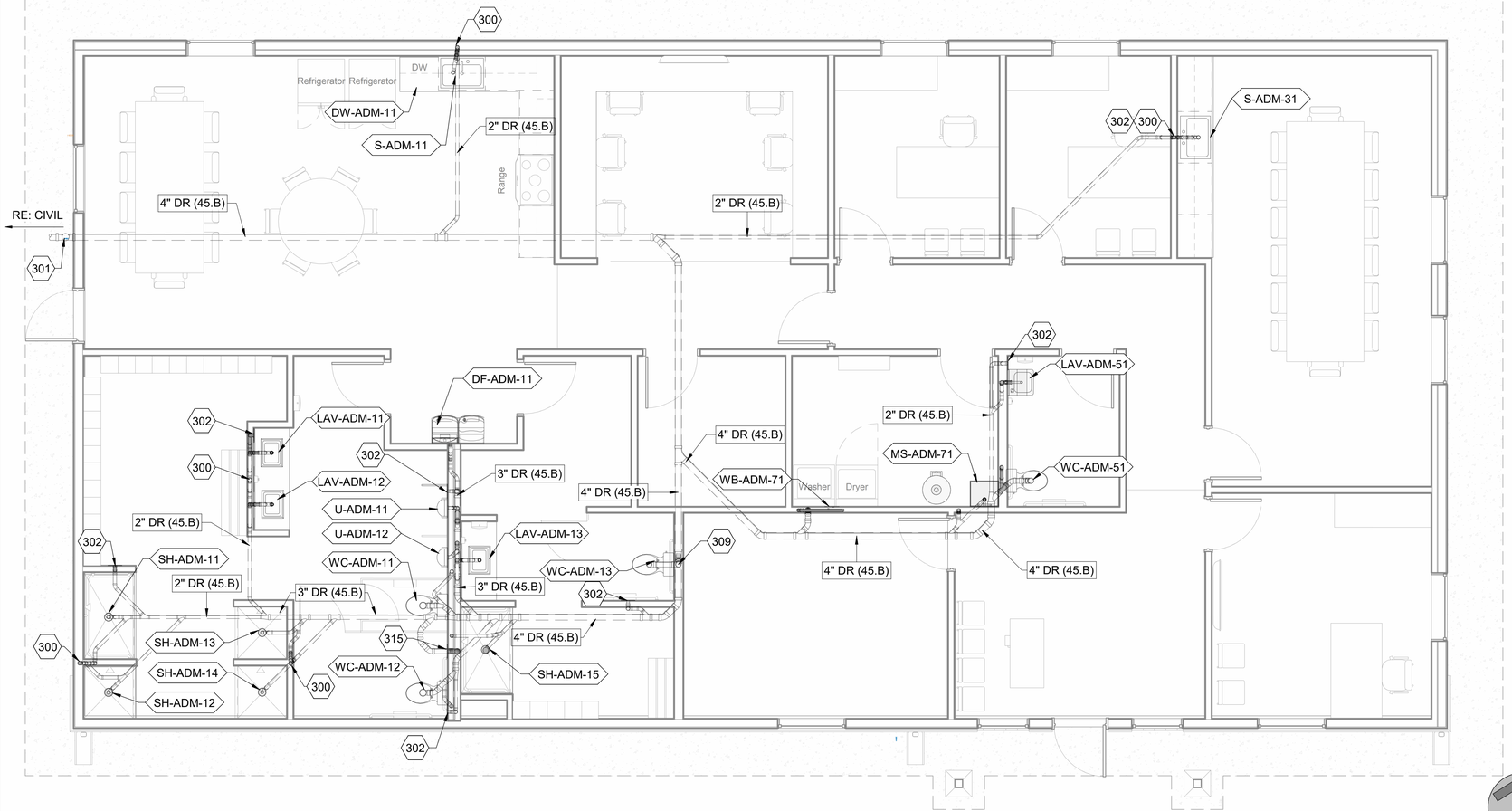

A1 DRAIN AND VENT PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. REFERENCE MP-001 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
2. REFERENCE MP-501 FOR PLUMBING DETAILS.
3. REFERENCE MP-601 FOR PLUMBING SCHEDULES.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND INSTALLING DRAIN LINES WITH A UNIFORM SLOPE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
5. SUPPORT DRAIN LINES IN CRAWL SPACE AS NEEDED; RE: P9001
6. ALL ROOF PENETRATIONS SHALL BE WITHIN 4' OF THE HIGH SLOPE OF THE ROOF ON THE NORTH SIDE OF THE BUILDING.

SHEET KEYNOTES

300	2" VENT THROUGH ROOF; RE: P6005
301	BUILDING CLEANOUT; RE: P7002
302	WALL CLEANOUT WITH ACCESS COVER; RE: P1008
309	3" VENT THROUGH ROOF; RE: P6005
315	3" END OF LINE CLEANOUT; RE:P1008

EQUIPMENT KEYNOTES

DF-ADM-11	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER; RE: P2004, MP-601
DW-ADM-11	DISHWASHER, SHALL BE FRIGIDAIRE MODEL FFBD2420US OR APPROVED EQUAL. PROVIDE THREE-WAY VALVE UNDER SINK AND CONNECT WITH 3/8" COMPRESSION FLEX HOSE.
LAV-ADM-11	LAVATORY; RE: P2004, P3015, MP-601
LAV-ADM-12	LAVATORY; RE: P2004, P3015, MP-601
LAV-ADM-13	LAVATORY; RE: P2004, P3015, MP-601
LAV-ADM-51	LAVATORY; RE: P2004, P3015, MP-601
MS-ADM-71	MOP SINK; RE: P2001, MP-601
S-ADM-11	KITCHEN SINK; RE: P2004, MP-601
S-ADM-31	KITCHEN SINK; RE: P2004, MP-601
SH-ADM-11	SHOWER; RE: P2001, MP-601
SH-ADM-12	SHOWER; RE: P2001, MP-601
SH-ADM-13	SHOWER; RE: P2001, MP-601
SH-ADM-14	SHOWER; RE: P2001, MP-601
SH-ADM-15	SHOWER; RE: P2001, MP-601
U-ADM-11	URINAL; RE: P2004, P3014, MP-601
U-ADM-12	URINAL; RE: P2004, P3014, MP-601
WB-ADM-71	WASHING MACHINE OUTLET BOX; RE: P2004, MP-601
WC-ADM-11	WATER CLOSET; RE: P2005, P3012, MP-601
WC-ADM-12	WATER CLOSET; RE: P2005, P3012, MP-601
WC-ADM-13	WATER CLOSET; RE: P2005, P3012, MP-601
WC-ADM-51	WATER CLOSET; RE: P2005, P3012, MP-601

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OREGON
SEP 13, 2027
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING - DRAIN AND VENT PLAN

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 47

SHEET NO. MP-101-F

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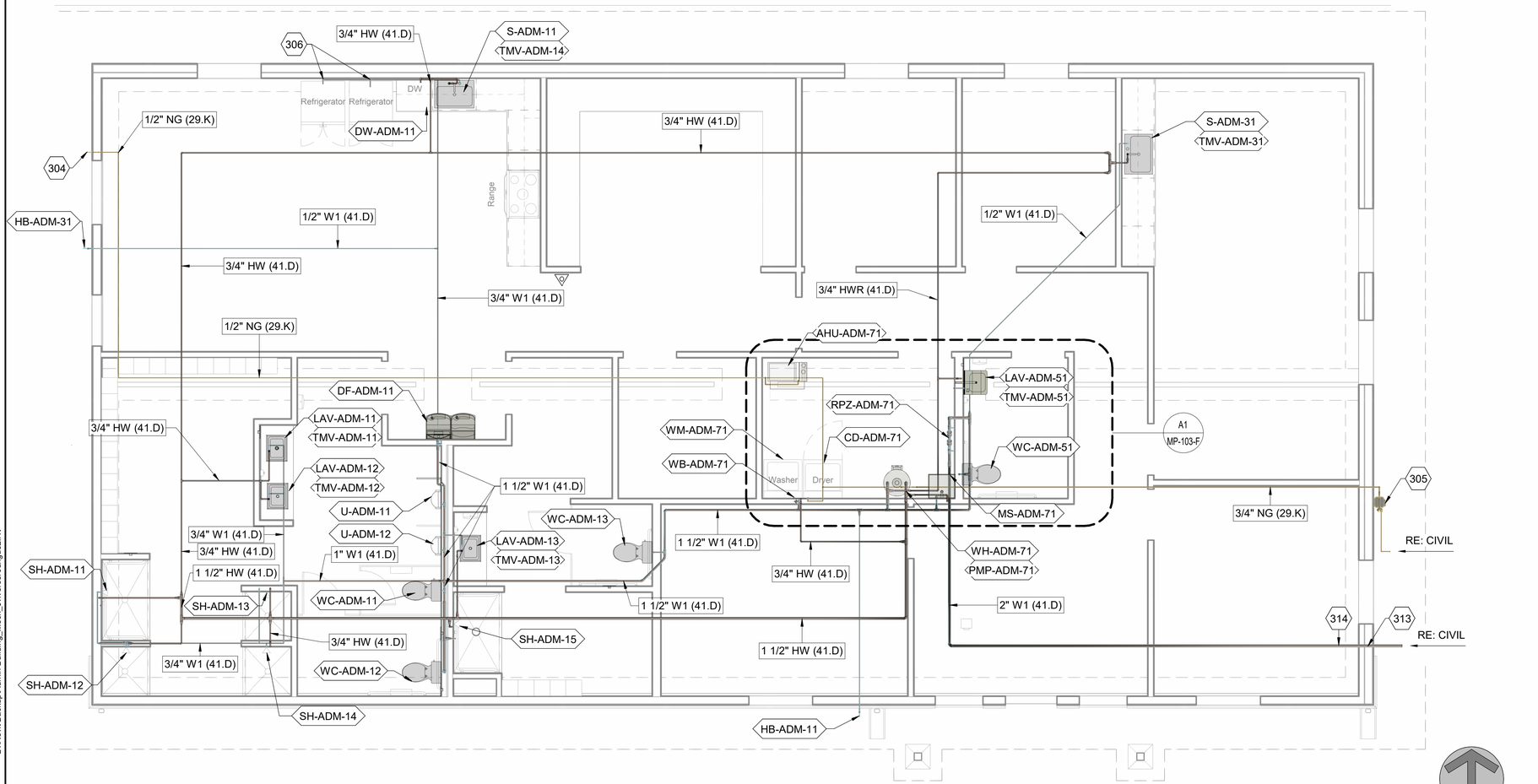

A1 WATER AND GAS PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. REFERENCE MP-001 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
2. REFERENCE MP-501 FOR PLUMBING DETAILS.
3. REFERENCE MP-601 FOR PLUMBING SCHEDULES.
4. ROUTE WATER AND GAS LINES IN CRAWLSPACE UNLESS NOTED OTHERWISE. SUPPORT AS NEEDED; RE: P9001
5. ALL ROOF PENETRATIONS SHALL BE WITHIN 4' OF THE HIGH SLOPE OF THE ROOF ON THE NORTH SIDE OF THE BUILDING.

SHEET KEYNOTES

304	STUB OUT AND CAP FOR FUTURE GRILLE WITH MINIFLANGE AND GAS COCK
305	GAS METER AND REGULATOR; RE: P8006
306	CONNECT TO REFRIGERATOR ICE MAKER PER MANUFACTURER'S RECOMMENDATIONS
313	FOAM WRAP AND PROTECT PIPE AT FOUNDATION PENETRATION; RE: P6002
314	MATERIAL TRANSITION

EQUIPMENT KEYNOTES

AHU-ADM-71	FURNACE; RE: MH-601
CD-ADM-71	NATURAL GAS CLOTHES DRYER, OWNER PROVIDED
DF-ADM-11	HI-LO DRINKING FOUNTAIN WITH BOTTLE FILLER; RE: P2004, MP-601
DW-ADM-11	DISHWASHER, SHALL BE FRIGIDAIRE MODEL FFBD2420US OR APPROVED EQUAL. PROVIDE THREE-WAY VALVE UNDER SINK AND CONNECT WITH 3/8" COMPRESSION FLEX HOSE.
HB-ADM-11	HOSE BIBB WITH HOSE RACK. STUB OUT 24" ABOVE FINISH FLOOR; RE: P3007, P3010, MP-601
HB-ADM-31	HOSE BIBB WITH HOSE RACK. STUB OUT 24" ABOVE FINISH FLOOR; RE: P3007, P3010, MP-601
LAV-ADM-11	LAVATORY; RE: P2004, P3015, MP-601
LAV-ADM-12	LAVATORY; RE: P2004, P3015, MP-601
LAV-ADM-13	LAVATORY; RE: P2004, P3015, MP-601
LAV-ADM-51	LAVATORY; RE: P2004, P3015, MP-601
MS-ADM-71	MOP SINK; RE: P2001, MP-601
PMP-ADM-71	HOT WATER RECIRCULATION PUMP DUTY POINT 3 GPM @ 4 FT TDH. PROVIDE WITH TIMER ASSEMBLY. FIELD SET TIMER TO OPERATE IN 15 MIN CYCLES, 24 HR PER DAY; RE: P3019, P6004, MP-601
RPZ-ADM-71	RPZ BACKFLOW PREVENTER; RE: P5001, MP-601
S-ADM-11	KITCHEN SINK; RE: P2004, MP-601
S-ADM-31	KITCHEN SINK; RE: P2004, MP-601
SH-ADM-11	SHOWER; RE: P2001, MP-601
SH-ADM-12	SHOWER; RE: P2001, MP-601
SH-ADM-13	SHOWER; RE: P2001, MP-601
SH-ADM-14	SHOWER; RE: P2001, MP-601
SH-ADM-15	SHOWER; RE: P2001, MP-601
TMV-ADM-11	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
TMV-ADM-12	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
TMV-ADM-13	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
TMV-ADM-14	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
TMV-ADM-31	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
TMV-ADM-51	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
U-ADM-11	URINAL; RE: P2004, P3014, MP-601
U-ADM-12	URINAL; RE: P2004, P3014, MP-601
WB-ADM-71	WASHING MACHINE OUTLET BOX; RE: P2004, MP-601
WC-ADM-11	WATER CLOSET; RE: P2005, P3012, MP-601
WC-ADM-12	WATER CLOSET; RE: P2005, P3012, MP-601
WC-ADM-13	WATER CLOSET; RE: P2005, P3012, MP-601
WC-ADM-51	WATER CLOSET; RE: P2005, P3012, MP-601
WH-ADM-71	TANK TYPE GAS WATER HEATER; RE: P3019, MP-601
WM-ADM-71	CLOTHES WASHING MACHINE, OWNER PROVIDED COORDINATE WITH OWNER FOR INSTALLATION INFORMATION AND CLEARANCES

NATURAL GAS LOADS TABLE

TAG	GAS DEMAND (BTU/HR)
AHU-ADM-71	40000
CD-ADN-71	25000
GRILL (FUTURE)	50000
WH-ADM-71	76000

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NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING - WATER AND GAS PLAN

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 48

SHEET NO. MP-102-F

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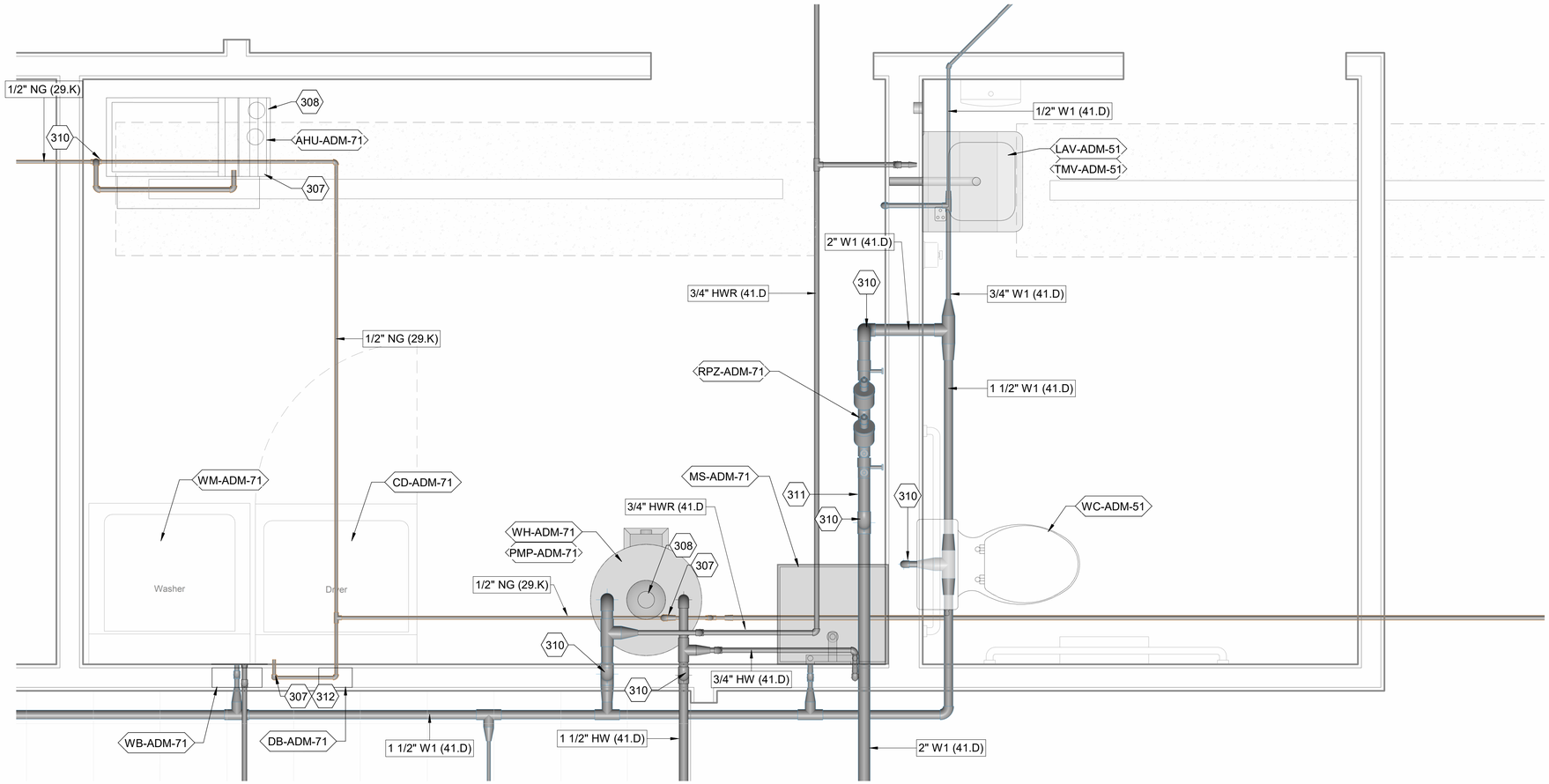

A1 WATER AND GAS PLAN - ENLARGED

1" = 1'-0"

1" 0 1/2' 1' 2'

GENERAL SHEET NOTES

1. REFERENCE MP-001 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
2. REFERENCE MP-501 FOR PLUMBING DETAILS.
3. REFERENCE MP-601 FOR PLUMBING SCHEDULES.
4. ROUTE WATER AND GAS LINES IN CRAWLSPACE UNLESS NOTED
   OTHERWISE. SUPPORT AS NEEDED; RE: P9001
5. ROUTE EQUIPMENT CONNECTIONS
6. ALL ROOF PENETRATIONS SHALL BE WITHIN 4' OF THE HIGH SLOPE OF THE ROOF ON THE NORTH SIDE OF THE BUILDING.

SHEET KEYNOTES

307	GAS CONNECTION; RE: P8002
308	CONCENTRIC VENT THROUGH ROOF; RE: P8003
310	PROTECT PIPE AT FLOOR PENETRATION; RE: SPECS
311	SHUTOFF VALVE; RE: SPECS
312	DRYER VENT; RE: SPECS

EQUIPMENT KEYNOTES

AHU-ADM-71	FURNACE; RE: MH-601
CD-ADM-71	NATURAL GAS CLOTHES DRYER, OWNER PROVIDED
DB-ADM-71	DRYER BOX WITH 4" DRYER VENT THROUGH ROOF; RE: MP-601
LAV-ADM-51	LAVATORY; RE: P2004, P3015, MP-601
MS-ADM-71	MOP SINK; RE: P2001, MP-601
PMP-ADM-71	HOT WATER RECIRCULATION PUMP DUTY POINT 3 GPM @ 4 FT TDH. PROVIDE WITH TIMER ASSEMBLY. FIELD SET TIMER TO OPERATE IN 15 MIN CYCLES, 24 HR PER DAY; RE: P3019, P6004, MP-601
RPZ-ADM-71	RPZ BACKFLOW PREVENTER; RE: P5001, MP-601
TMV-ADM-51	POINT OF USE THERMOSTATIC MIXING VALVE; RE: MP-601
WB-ADM-71	WASHING MACHINE OUTLET BOX; RE: P2004, MP-601
WC-ADM-51	WATER CLOSET; RE: P2005, P3012, MP-601
WH-ADM-71	TANK TYPE GAS WATER HEATER; RE: P3019, MP-601
WM-ADM-71	CLOTHES WASHING MACHINE, OWNER PROVIDED COORDINATE WITH OWNER FOR INSTALLATION INFORMATION AND CLEARANCES

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING - ENLARGED WATER AND GAS PLAN

DRAWN: JVR CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 49

SHEET NO. MP-103-F

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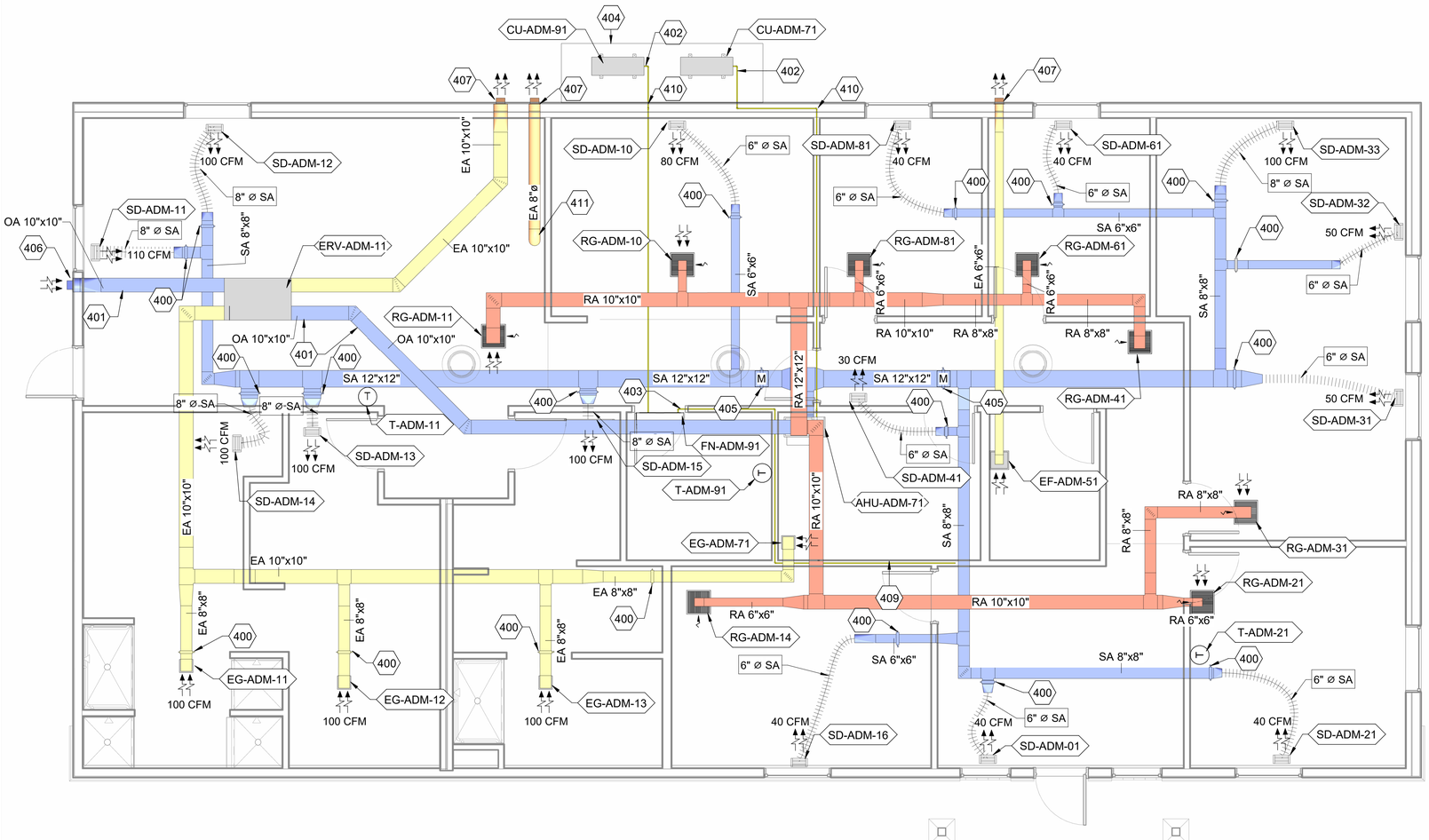

A1 HVAC PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

EQUIPMENT MOUNTING HEIGHT

EQUIPMENT	MOUNTING ABOVE FINISH FLOOR
EF-ADM-51	CEILING
EG-ADM-XX	CEILING
FN-ADM-91	84"
RG-ADM-XX	CEILING
SD-ADM-XX	FLOOR
T-ADM-XX	60"

AIR FLOW BALANCE TABLE

AIR SOURCE	CFM
OA	400
SA	1040
RA	640
EA	400

GENERAL SHEET NOTES

1. REFERENCE MH-001 FOR GENERAL HVAC NOTES AND SYMBOLS.
2. REFERENCE MH-501 FOR HVAC DETAILS.
3. REFERENCE MH-601 FOR HVAC SCHEDULES.
4. ROUTE ALL SUPPLY DUCTWORK IN CRAWLSPACE UNLESS NOTED OTHERWISE. SUPPORT AS NEEDED; RE: H3001, H3006
5. ROUTE ALL OUTSIDE AIR, RETURN, AND EXHAUST DUCTWORK IN ATTIC UNLESS NOTED OTHERWISE. SUPPORT AGAINST TRUSSES AS NEEDED.
6. INSULATE AND LINE ALL SUPPLY AND RETURN DUCTWORK; RE: H3003, H3004
7. PROVIDE DUCT FITTINGS AS NEEDED; RE: H3002

SHEET KEYNOTES

400	MANUAL BALANCING DAMPER; RE: H4007
401	ROUTE OUTSIDE AIR IN ATTIC
402	REFRIGERANT LINE, ROUTE IN ATTIC; RE: H5001, H5002, H5003, H5005, H5007
403	CONDENSATE DRAIN; ROUTE TO AIR HANDLER CONDENSATE PUMP; RE: P9001
404	EQUIPMENT PAD; RE: CIVIL
405	MOTOR ACTUATED BALANCING DAMPER; RE: H9004, HVAC SEQUENCE OF OPERATIONS
406	EXTERIOR MOUNT SUPPLY HOOD WITH #40 SS MESH INSECT SCREEN; RE: SPECS
407	EXTERIOR MOUNT EXHAUST HOOD WITH #40 SS MESH INSECT SCREEN; RE: SPECS
409	FIELD ROUTE CONDENSATE DRAIN LINE TO MOP SINK. SUPPORT AS NEEDED; RE: P9001
410	WATER-TIGHT PENETRATION INTO ATTIC SPACE
411	ROUTE EXHAUST VENT DOWN AND CONNECT TO MICROWAVE AND HOOD VENT. OWNER TO PROVIDE MICROWAVE AND HOOD VENT. COORDINATE WITH OWNER FOR EQUIPMENT CONNECTION SIZE AND LOCATION.

EQUIPMENT KEYNOTES

AHU-ADM-71	FURNACE; RE: MH-601
CU-ADM-71	CONDENSING UNIT; RE: H5005, MH-601
CU-ADM-91	CONDENSING UNIT; RE: H5005, MH-601
EF-ADM-51	BATHROOM EXHAUST FAN; RE: MH-601
EG-ADM-11	EXHAUST GRILLE; RE: H4006, MH-601
EG-ADM-12	EXHAUST GRILLE; RE: H4006, MH-601
EG-ADM-13	EXHAUST GRILLE; RE: H4006, MH-601
EG-ADM-71	EXHAUST GRILLE; RE: H4006, MH-601
ERV-ADM-11	ENERGY RECOVERY VENTILATOR MOUNTED IN ATTIC. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF WORKING PLATFORMS AND CLEARANCES AS REQUIRED BY THE PLANS AND SPECIFICATIONS; RE: MH-601
FN-ADM-91	FAN COIL; RE: H5005, MH-601
RG-ADM-10	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-11	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-14	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-21	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-31	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-41	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-61	RETURN GRILLE; RE: H4006, MH-601
RG-ADM-81	RETURN GRILLE; RE: H4006, MH-601
SD-ADM-01	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-10	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-11	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-12	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-13	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-14	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-15	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-16	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-21	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-31	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-32	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-33	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-41	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-61	SUPPLY DIFFUSER; RE: H9003, MH-601
SD-ADM-81	SUPPLY DIFFUSER; RE: H9003, MH-601
T-ADM-11	THERMOSTAT; RE: MH-601
T-ADM-21	THERMOSTAT; RE: MH-601
T-ADM-91	THERMOSTAT; RE: MH-601

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NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMIN BUILDING - HVAC PLAN

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 50

SHEET NO. MH-101-F

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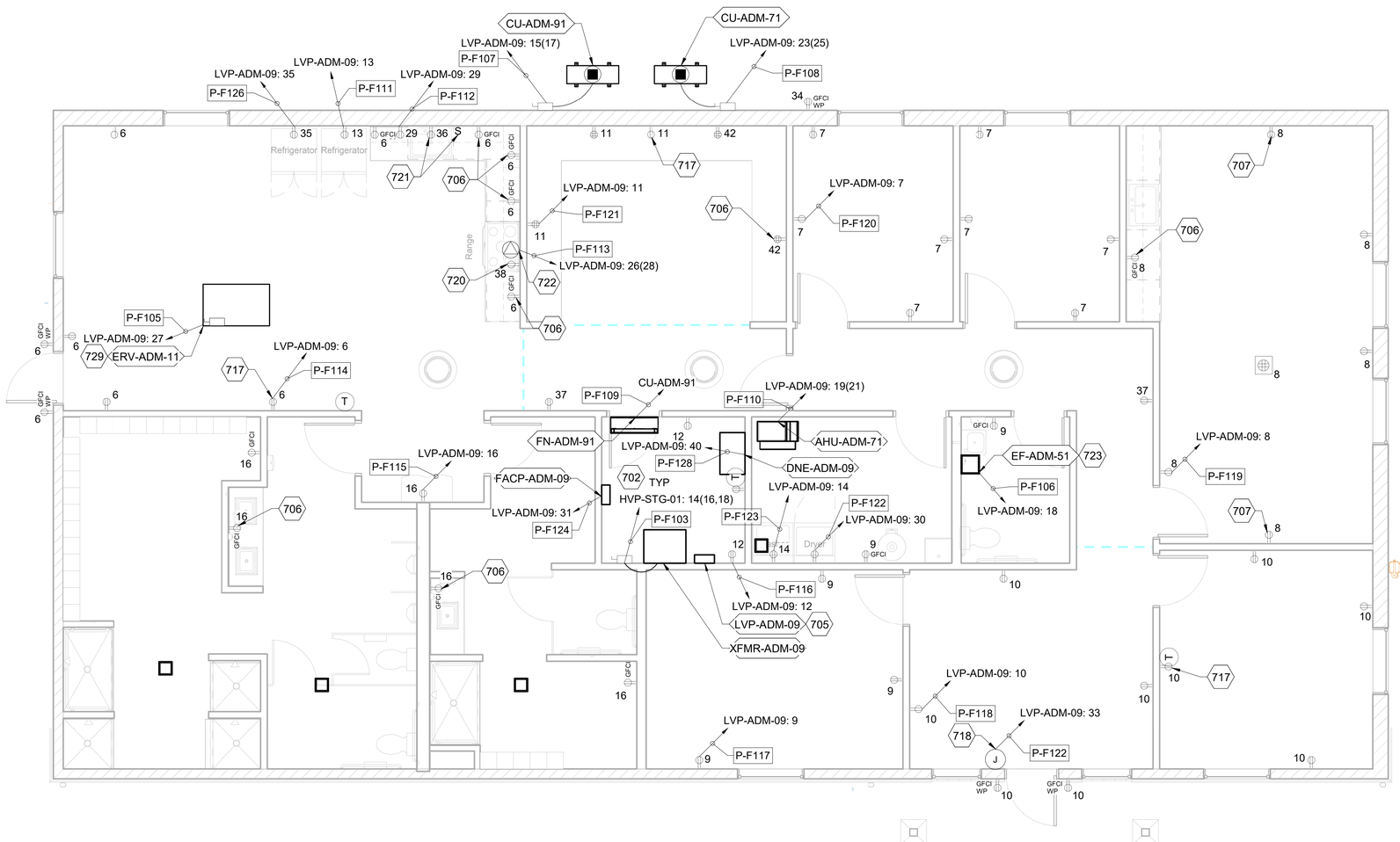

A1 POWER PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. SEE ONELINE DIAGRAM FOR CONDUIT AND CONDUCTORS, RE: E-601 AND E-602
2. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION
3. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
4. CONCEAL ALL RACEWAYS WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISED INDICATED.
5. ROUTE CONDUIT IN COMMON TRENCH WHENEVER POSSIBLE.
6. RE: E-604 FOR CONDUIT AND CABLE SCHEDULE.

SHEET KEYNOTES

702	SEE ONE-LINE DIAGRAM FOR MISSING ELECTRICAL ROOM CABLE AND CONDUITS. RE: E-602
705	INSTALL SPARE 1" CONDUIT FROM LVP-ADM-09 TO CRAWL SPACE AND ATTIC FOR FUTURE EQUIPMENT. RE: E-602
706	RECEPTACLES TO BE MOUNTED ABOVE COUNTER TOPS IN AN ACCESSIBLE LOCATION.
707	CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL HEIGHT OF RECEPTACLE.
717	RECEPTACLE TO BE MOUNTED AT +72" ABOVE FINISH FLOOR FOR TV FEED.
718	PROVIDE POWER FEED TO ELECTRICAL DOOR STRIKE JUNCTION BOX. COORDINATE WITH OWNER FOR FINAL EQUIPMENT SELECTION.
720	RANGE ELECTRICAL CONNECTION TO BE COORDINATED WITH FINAL EQUIPMENT SELECTION.
721	INSTALL SWITCH ABOVE COUNTERTOP AND RECEPTACLE BELOW COUNTERTOP. GARBAGE DISPOSAL TO BE FED FROM LVP-ADM-09 WITH (2)#12 CU, #12 GND.
722	CONTRACTOR TO INSTALL DEDICATED MICROWAVE RECEPTACLE AND HOOD VENT. COORDINATE WITH OWNER FOR FINAL EQUIPMENT SELECTION.
723	FAN TO BE CONTROLLED ON TIMER SWITCH.
729	INSTALL AND ROUTE POWER THROUGH EQUIPMENT DISCONNECT.

EQUIPMENT KEYNOTES

AHU-ADM-71	FURNACE; RE: MH-601
CU-ADM-71	CONDENSING UNIT; RE: H5005, MH-601
CU-ADM-91	CONDENSING UNIT; RE: H5005, MH-601
DNE-ADM-09	DATA NETWORK ENCLOSURE
EF-ADM-51	BATHROOM EXHAUST FAN; RE: MH-601
ERV-ADM-11	ENERGY RECOVERY VENTILATOR MOUNTED IN ATTIC. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF WORKING PLATFORMS AND CLEARANCES AS REQUIRED BY THE PLANS AND SPECIFICATIONS; RE: MH-601
FACP-ADM-09	FIRE CONTROL PANEL
FN-ADM-91	FAN COIL; RE: H5005, MH-601
LVP-ADM-09	LOW VOLTAGE PANEL
XFMR-ADM-09	ADMIN BUILDING LOW VOLTAGE TRANSFORMER

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NOV. 15, 2012
ADAM L. NEWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - POWER PLAN

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 51

SHEET NO. E-101-F

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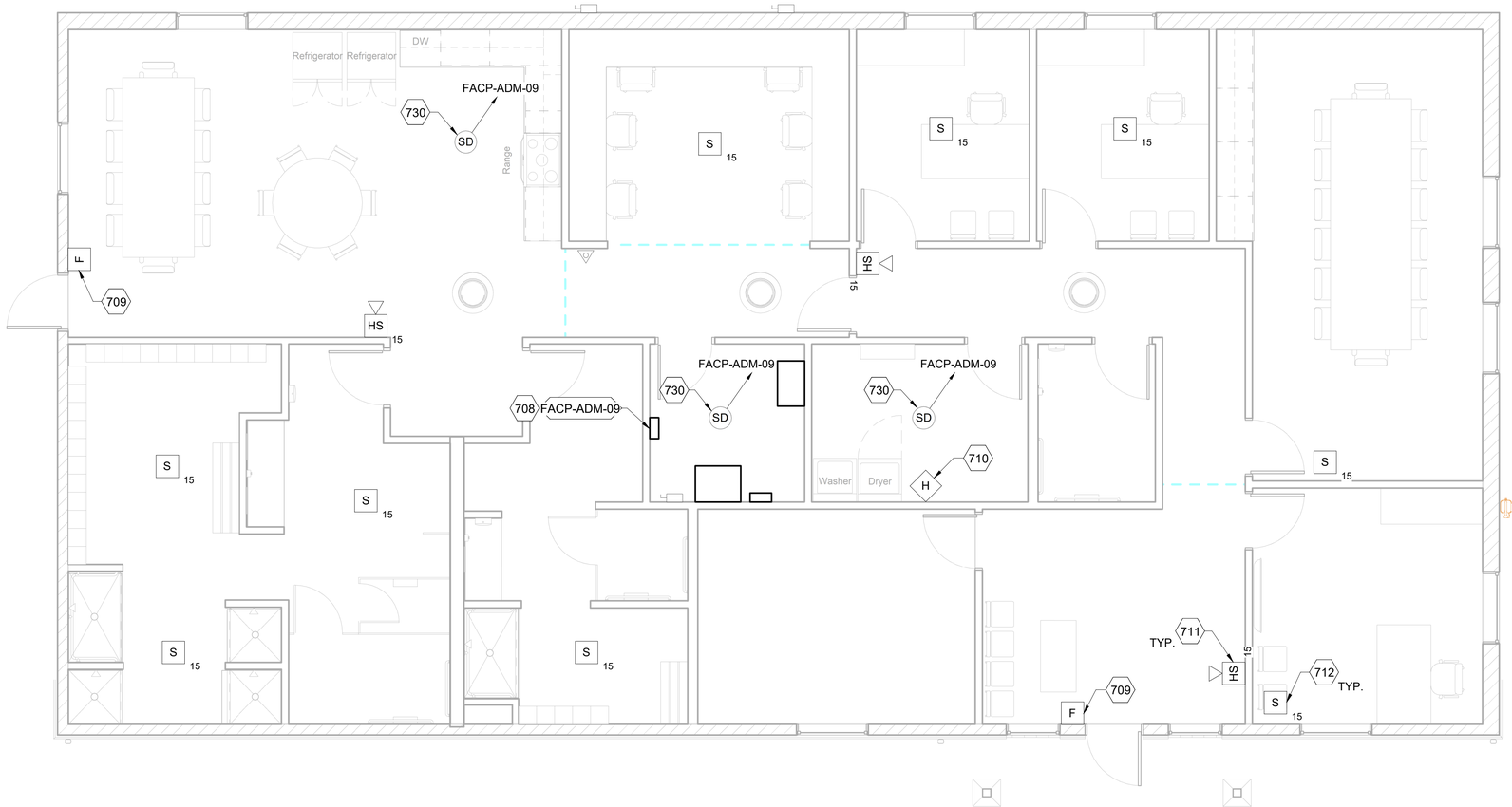

A1 FIRE ALARM PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. FIRE ALARM DEVICES AND SYSTEMS SHOWN ARE SUGGESTIONS ONLY. CONTRACTOR SHALL INCLUDE IN THEIR BID A COMPLETE FIRE ALARM SYSTEM DESIGNED, FURNISHED, AND INSTALLED BY AN APPROVED FIRE ALARM CONTRACTOR.
2. PROVIDE ALL WORK IN COMPLIANCE WITH ALL PREVAILING CODES, STANDARDS, AND ORDINANCES, INCLUDING NFPA 70 AND NFPA 72.
3. IT SHALL BE THE RESPONISBILITY OF THE CONTRACTOR FOR FILLING, AND OBTAINING NECESSARY SIGN-OFFS FROM THE FIRE AND BUILDING DEPARTMENTS.
4. PROVIDE CEILING MOUNTED PHOTOELECTRIC SMOKE DETECTOR ABOVE EACH FIRE ALARM CONTROL UNIT.
5. FIRE ALARM CONTRACTOR TO VERIFY CIRCUIT LENGTHS, BATTERY CALCS, AND VOLTAGE DROP, AND MODIFY CIRCUITING AS REQUIRED.

SHEET KEYNOTES

708	CONTRACTOR TO COORDINATE WITH FIRE ALARM CONTRACTOR FOR PANEL CONSTRUCTION, LOCATION, AND POWER REQUIREMENTS.
709	MANUAL FIRE ALARM PULL STATIONS TO BE PROVIDED AT REQUIRED EGRESS LOCATIONS. FINAL QUANTITY AND LOCATIONS TO BE DETERMINED BY FIRE ALARM CONTRACTOR.
710	HEAT DETECTORS TO BE PROVIDED WHERE REQUIRED BY NFPA 72 AND LOCAL AHJ.
711	AUDIBLE FIRE ALARM HORNS TO BE PROVIDED TO ACHIEVE CODE-REQUIRED SOUND LEVELS THROUGHOUT OCCUPIED SPACES. FINAL DEVICE LOCATIONS AND SOUND PRESSURE LEVELS TO BE DETERMINED BY FIRE ALARM CONTRACTOR.
712	VISUAL FIRE ALARM DEVICES TO BE PROVIDED. FINAL DEVICE LOCATIONS, CANDELA RATINGS, AND MOUNTING HEIGHTS BY FIRE ALARM CONTRACTOR.
730	INSTALL LOCAL SMOKE DETECTOR MOUNTED AT THE HIGHEST POINT IN THE ROOM.

EQUIPMENT KEYNOTES

FACP-ADM-09	FIRE CONTROL PANEL

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NOV. 15, 2012
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EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - FIRE ALARM PLAN

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 52

SHEET NO. E-102-F

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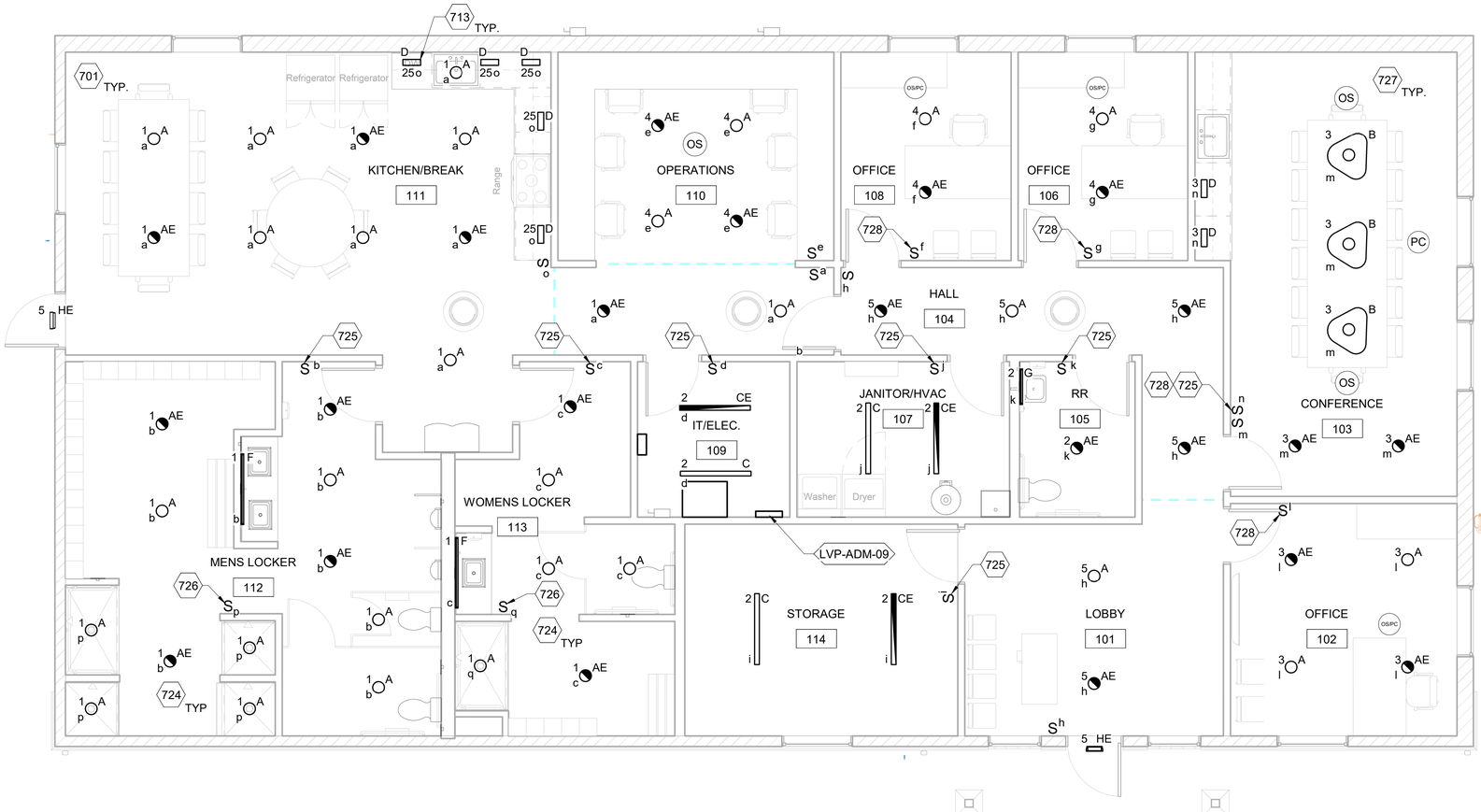
OPERATIONS BUILDING LUMINAIRE SCHEDULE - ADMIN

FIXTURE ID	MANUFACTURER	CATALOG	DESCRIPTION	MOUNTING	MOUNTING HEIGHT	LAMP TYPE	VOLTS	WATTS	NOTES
A	GOTHAM	IVO4 D 15LM 35K 90CRI 60D P WMR	IVO4 DOWNLIGHT	CEILING		LED	120	20.5	
AE	GOTHAM	IVO4 D 15LM 35K 90CRI 60D E7W P WMR	IVO4 DOWNLIGHT	CEILING		LED	120	20.5	1
B	WAC	PD-41442-30-BC-4000K	42" PENDANT MOUNT OYSTER	CEILING	+ 6' 6" A.F.F	LED	120	57	2
C	LITHONIA	CLX L48 5000LM SEF RDL MVOLT 40K 90CRI	CLX LED LINEAR 48"	CEILING		LED	120	31.8	
CE	LITHONIA	CLX L48 5000LM SEF RDL MVOLT 40K 90CRI E10W	CLX LED LINEAR 48"	CEILING		LED	120	31.8	1
D	JUNO	UCES 12IN SWW5 40K 90CRI WH	12" UNDER CAB	UNDER CABINET		LED	120	9	3
F	LITHONIA	FMVCSLS 48IN MVOLT 30K35K40K	48" CONTEMPORARY SQUARE	WALL	+ 8' A.F.F	LED	120	36	
G	LITHONIA	FMVCSLS 24IN MVOLT 30K35K40K	24" CONTEMPORARY SQUARE	WALL	+ 8' A.F.F	LED	120	27	
HE	LITHONIA	WPX1 LED P2 40K MVOLT E4WH DBLXD	WPX1 LED WALLPACK WITH EMERGENCY BACKUP	WALL	+ 8' A.F.F	LED	120	24	1,4

NOTES:

1. PROVIDE BATTERY PACK.
2. INCLUDE WIRE CABLES TO MOUNT LIGHT FIXTURE 1' - 6" DOWN FROM CEILING. CONTRACTOR TO COORDINATE WITH OWNER FOR FINAL HEIGHT AND LOCATION OVER CONFERENCE ROOM TABLE.
3. CONTRACTOR TO INSTALL LIGHTS BELOW UPPER CABINETS FOR COUNTERTOP LIGHTING
4. PROVIDE AND INSTALL PHOTO CELL FIXTURE.

** CONTRACTOR TO PROVIDE DOUL-TECH OCCUPANCY SENSORS WHERE LINE-OF-SIGHT PIR COULD MISS FINE MOTION (RESTROOMS, STORAGE, OFFICES, ECT.)



A1 LIGHTING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. FIXTURES WITH E ARE EMERGENCY FIXTURES. PROVIDE UNSWITCHED CIRCUIT TO BATTERY PACK.
2. PROVIDE AUTOMATIC LIGHTING SHUT OFF CONTROLS IN INTERIOR SPACES AS REQUIRED BY THE OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC - ASHRAE 90.1-2022)
3. WHERE PROVIDED, LOCAL SWITCHES SHALL NOT DEFEAT REQUIRED AUTOMATIC OFF. CONTRACTOR TO COORDINATE COVERAGE, TIME DELAY, AND DAYLIGHT/OVERRIDE SETTINGS WITH OEESC.
4. SPACES REQUIRING AUTO-OFF INCLUDE, BUT ARE NOT LIMITED TO: RESTROOMS, OFFICES SPACES, CONFERENCE/MEETING ROOMS, CLASSROOMS, STORAGE ROOMS, AND BREAKROOMS.
5. COORDINATE WITH OWNER FOR FINAL ROOM SELECTIONS TO INCLUDE OCCUPANCY SENSORS AND DAYLIGHT SENSORS.

SHEET KEYNOTES

701 ALL LIGHTING TO BE FED FROM LVP-ADM-09 CIRCUIT AS SHOWN WITH 3/4"-C AND (2)#12 CU, #12 CU GND

713 ALL D FIXTURES TO BE MOUNTED ON BOTTOM OF CABINETS.

724 ALL LIGHTING IN OR NEAR DAMP LOCATIONS TO BE RATED FOR WET LOCATIONS.

725 PROVIDE WALL MOUNTED OCCUPANCY SENSOR OR EQUIVALENT AUTOMATIC SHUT-OFF CONTROL FOR THIS SPACE. CONTROL SHALL TURN GENERAL LIGHTING OFF WHEN SPACE IS UNOCCUPIED IN ACCORDANCE WITH OEESC.

726 PROVIDE DEDICATED MANUAL-ON LIGHTING CONTROL FOR SHOWER ROOM LIGHTS.

727 ALL INTERIOR LIGHTING SHALL BE CONTROLLED BY OCCUPANCY SENSORS AND DAYLIGHT CONTROLS AS SHOWN. FIXTURES AND DRIVERS SHALL BE 0-10V DIMMING CAPABLE AND FULLY COMPATIBLE WITH THE CONTROLS AS INDICATED ON DRAWINGS.

728 CONTRACTOR TO PROVIDE ALL DIMMING CONTROLS SUCH AS NPODMA 2P AND NPP PCD EFP OR ENGINEER APPROVED EQUIVALENT FOR ALL LIGHTING CIRCUITS WITH DAYLIGHT SENSING. ROUTE ALL PC AND OS IN SERIES WITH LIGHTING SWITCH CIRCUITS.

EQUIPMENT KEYNOTES

LVP-ADM-09 LOW VOLTAGE PANEL

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REGISTERED PROFESSIONAL ENGINEER
87153PE
Digitally Signed: 2026.05.01 12:31:34-08'00'
OREGON
NOV. 15, 2012
ADAM L. NEWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - LIGHTING PLAN

DRAWN: ELK CHECK: TF

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 53

SHEET NO. E-103-F

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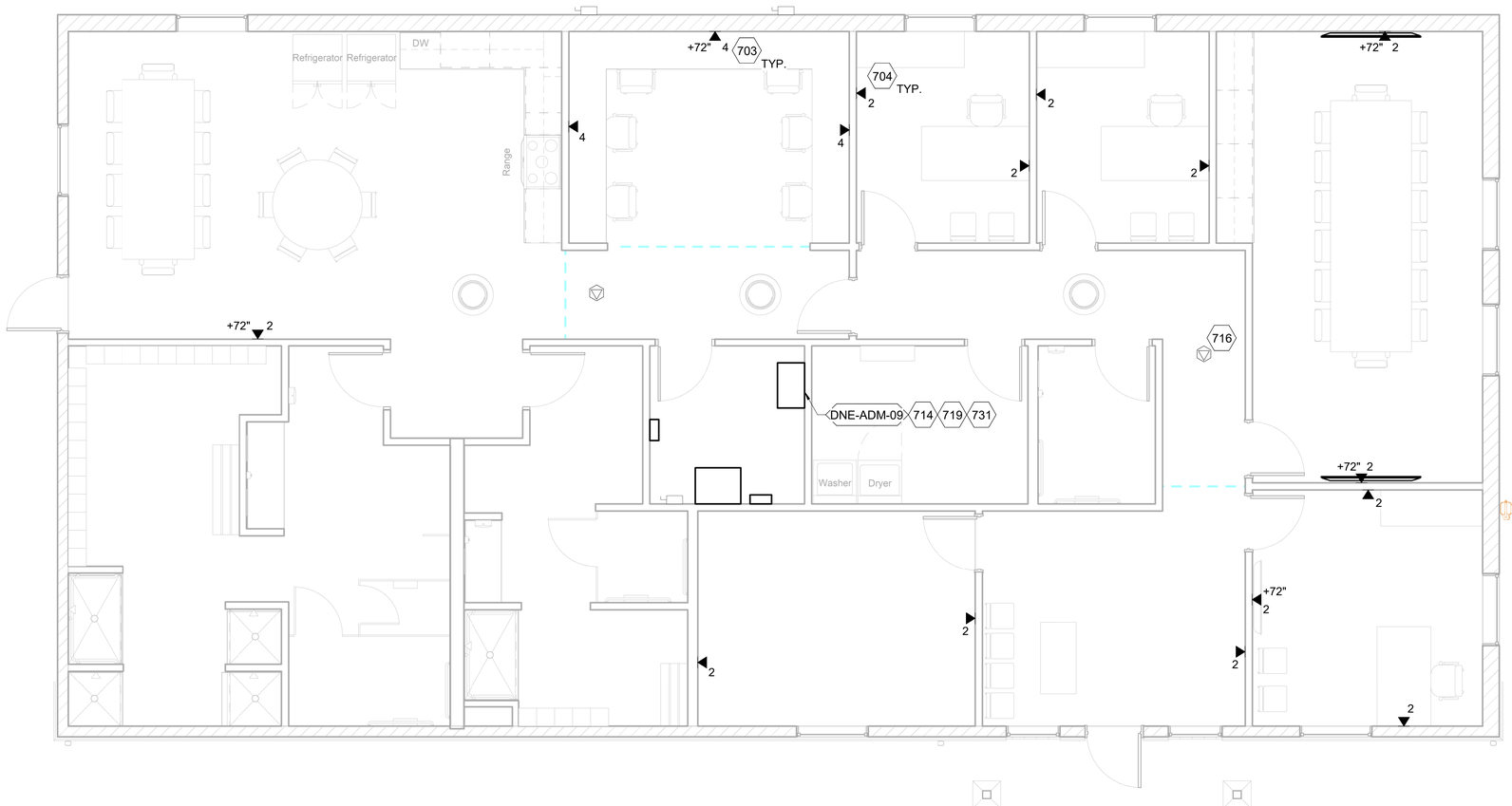

A1 NETWORK PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
2. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
3. CONCEAL ALL RACEWAYS WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
4. ROUTE CONDUIT IN COMMON TRENCH WHENEVER POSSIBLE.
5. COORDINATE WITH SCADA INTEGRATOR.
6. ETHERNET WALL PLATES SHALL BE PROVIDED WITH THE NUMBER OF PORTS INDICATED BY THE DEVICE CALLOUT.
7. MOUNT ETHERNET WALL PLATES 24" A.F.F. UNLESS OTHERWISE INDICATED ON DRAWINGS.
8. OWNER TO PROVIDE AND INSTALL LAYER 3 CISCO ETHERNET SWITCH. TO HAVE 4 FIBER PORTS, 4 PoE PORTS, AND 40 RJ-45 PORTS.

SHEET KEYNOTES

703 INSTALL 4 PORT ETHERNET WALL PLATE CAT6 WALL OUTLET WITH RJ-45 FEMALE JACKS. PROVIDE (4) CAT6 CABLES INSTALLED IN 1"-C FROM OUTLET TO ETHERNET SWITCHBOARD, ROUTED THROUGH THE CEILING OR WALL.

704 INSTALL 2 PORT ETHERNET WALL PLATE CAT6 WALL OUTLET WITH RJ-45 FEMALE JACKS. PROVIDE (2) CAT6 CABLES INSTALLED IN 1"-C FROM OUTLET TO ETHERNET SWITCHBOARD, ROUTED THROUGH THE CEILING OR WALL.

714 INSTALL SPARE 1" CONDUIT FROM DNE-ADM-09 TO CRAWLSPACE AND ATTIC FOR FUTURE EQUIPMENT. INSTALL 2" SPARE CONDUIT TO 5' OUTSIDE OF BUILDING FOOTPRINT FOR FUTURE FIBER, COORDINATE WITH OWNER FOR FINAL LOCATION. RE: E-602

716 PROVIDE (1) CAT6 CABLE TO EACH WIRELESS ACCESS POINT FOR PoE CONNECTION. INSTALL CABLE IN 1"-C FROM WIRELESS ACCESS POINT TO ETHERNET SWITCHBOARD. WIRELESS ACCESS POINT TO BE CEILING MOUNTED. COORDINATE WITH OWNER FOR FINAL PLACEMENT.

719 PROVIDE MULTIMODE FIBER CABLE BETWEEN DEWATERING COMPLEX(E) AND ADMIN BUILDING(E) AS INDICATED. INSTALL IN EXISTING CONDUIT. COORDINATE TERMINATIONS WITH OWNER.

731 PROVIDE DNE WITH FIBER PATCH PANEL AND ETHERNET SWITCH WITH FIBER PORT. TERMINATE INCOMING FIBER AT PATCH PANEL AND CONNECT TO SWITCH. INCLUDE WIRELESS ROUTER FOR CONNECTION TO STORAGE BUILDING WAPS. COORDINATE WITH OWNER ON HARDWARE SPECIFICATIONS.

EQUIPMENT KEYNOTES

DNE-ADM-09 DATA NETWORK ENCLOSURE

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REGISTERED PROFESSIONAL ENGINEER
97265PE
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OREGON
MAY. 11, 2021
BRADLEY M. CULVER
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NEW ADMINISTRATION BUILDING - NETWORK PLAN

DRAWN: ELK CHECK: TF

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 54

SHEET NO. EI-101-F

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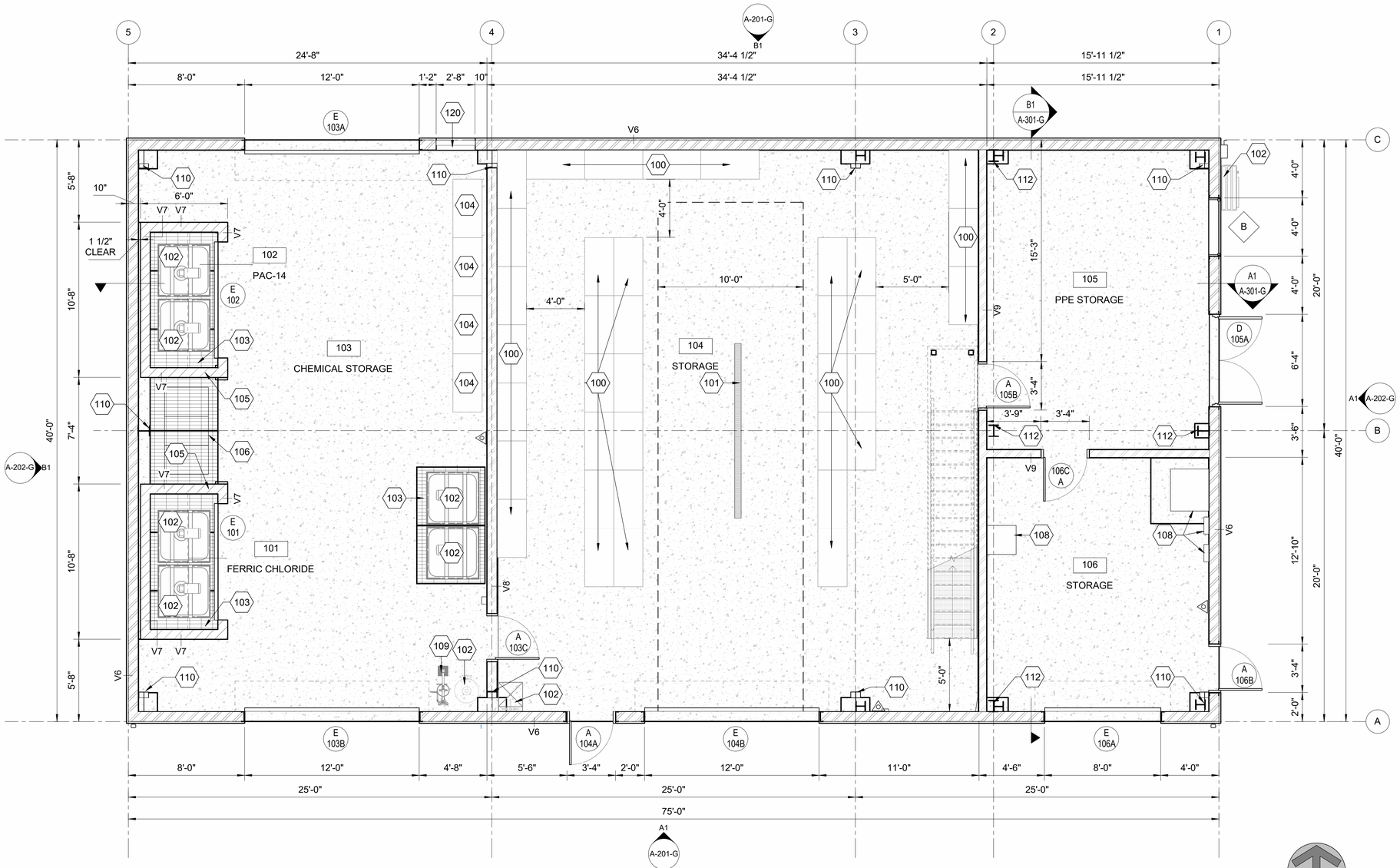

A1 FLOOR PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. DIMENSIONS ARE TO NOMINAL FACE OF PEMB WALL OR GRIDLINES.
2. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, AND EQUIPMENT VENDORS.
3. COORDINATE WITH CIVIL DRAWINGS FOR EXTERIOR SLAB INFORMATION.
4. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
5. COORDINATE FINISH FLOOR ELEVATIONS WITH STRUCTURAL & CIVIL DRAWINGS.
6. FOR INTERIOR FINISH, SEE ROOM FINISH SCHEDULE ON A-601.
7. DIMENSIONS OF LOUVER AND FAN OPENINGS TO BE VERIFIED BY CONTRACTOR

SHEET KEYNOTES

100 STORAGE SHELVING PROVIDED BY OWNER
101 TRENCH DRAIN; RE: PLUMBING PLANS
102 MECHANICAL/ PLUMBING EQUIPMENT; RE: MECHANICAL/PLUMBING PLANS
103 GRATING OVER CHEMICAL CONTAINMENT SUMP; RE: MECHANICAL
104 FLAMMABLE CHEMICAL CABINET WITH UL LISTING PROVIDED BY OWNER
105 ONE HOUR RATED (MINIMUM) CONCRETE MASONRY WALL FOR FIRE CONTROL AREA – ALL PENETRATIONS TO HAVE FIRE RATING TO MATCH WALL RATING
106 SPILL CONTAINMENT UNDER NEW OIL RACKS; RE: MECHANICAL PLANS
108 ELECTRICAL EQUIPMENT; RE ELECTRICAL PLANS
109 EMERGENCY SHOWER; RE: PLUMBING PLANS
110 METAL BUILDING FRAME; RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. CAULK /SEAL METAL LINER PANELS AT PRE-ENGINEERED METAL BUILDING MAIN FRAME AS REQUIRED.
112 MEZZANINE COLUMN – CAULK GYPSUM WALL BOARD AT COLUMN ATTACHMENT IF COLUMN IS WIDER THAN WALL STUD WIDTH (AS REQUIRED)
120 LOUVER; RE: MECHANICAL PLANS

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

- V# — PEMB/CFS WALL, RE: A-501
- # / X — DOOR, RE: SCHEDULE B1/A-601-G
- # — ROOM NUMBER, RE: SCHEDULE C1/A-601-G
- FIRE EXTINGUISHER, RE: SPECIFICATIONS
- # / X — WINDOW, RE: SCHEDULE A1/A-601-G

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.03.31 08:36:29 -07'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - FLOOR PLAN

DRAWN: BPB CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 55

SHEET NO. A-101-G

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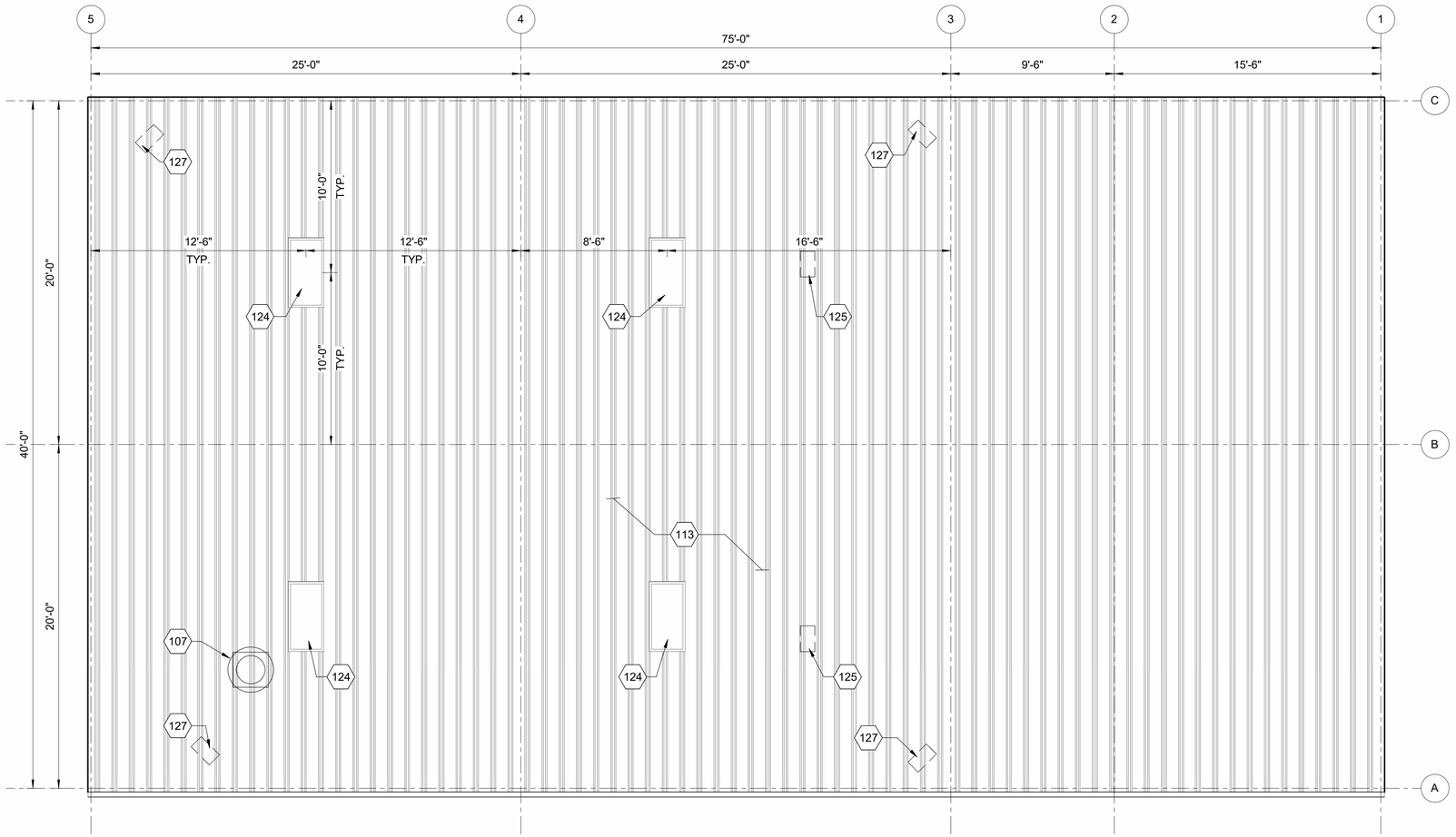

A1 ROOF PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. COORDINATE PENETRATION LOCATIONS FOR EQUIPMENT AND PIPING WITH MECHANICAL, ELECTRICAL AND PLUMBING.
2. DIMENSIONS ARE TO FACE OF PEMB WALL STRUCTURE OR NOMINAL FACE OF MASONRY.
3. PROVIDE CRICKETING AS REQUIRED TO REDIRECT WATER FLOW AROUND ALL ROOFTOP EQUIPMENT AND PREVENT AND POOLING OF WATER.
4. NOT ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL ROOF PLAN SHEETS. THE CONTRACTOR IS RESPONSIBLE TO REFERENCE ALL STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS FOR ALL ROOF EQUIPMENT OR PENETRATIONS.

SHEET KEYNOTES

107 ROOF MOUNTED MECHANICAL EQUIPMENT. THE METAL BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING AS NEEDED FOR THE SUPPORT OF THE MECHANICAL UNIT AND MECHANICAL UNIT CURB. COORDINATE WITH MECHANICAL PLANS FOR DUCT PENETRATION SIZE AND WEIGHT OF THE MECHANICAL UNIT. THE MECHANICAL CONTRACTOR SHALL DESIGN AND SUPPLY THE MECHANICAL UNIT CURB AND THE ATTACHMENT TO THE METAL BUILDING FRAMING.

113 METAL ROOF ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE ROOF CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF ROOF ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS

124 24" X 48" SKYLIGHT. METAL BUILDING MANUFACTURER TO PROVIDE SKYLIGHT, CURB, AND ALL REQUIRED FLASHING AND ATTACHMENTS.

125 THE METAL BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING AS NEEDED FOR THE SUPPORT OF THE CEILING FAN. COORDINATE WITH MECHANICAL PLANS FOR LOCATION ATTACHMENT INFORMATION AND WEIGHT OF THE CEILING FAN.

127 MECHANICAL EQUIPMENT- THE METAL BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING AS NEEDED FOR THE SUPPORT OF THE MECHANICAL UNIT. COORDINATE WITH MECHANICAL PLANS FOR SIZE AND WEIGHT OF THE MECHANICAL UNIT. THE MECHANICAL CONTRACTOR SHALL DESIGN AND SUPPLY THE MECHANICAL UNIT ATTACHMENT TO THE METAL BUILDING FRAMING.

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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REGISTERED PROFESSIONAL ENGINEER
79041PE
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OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - ROOF PLAN

DRAWN: BPB | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 56

SHEET NO. A-102-G

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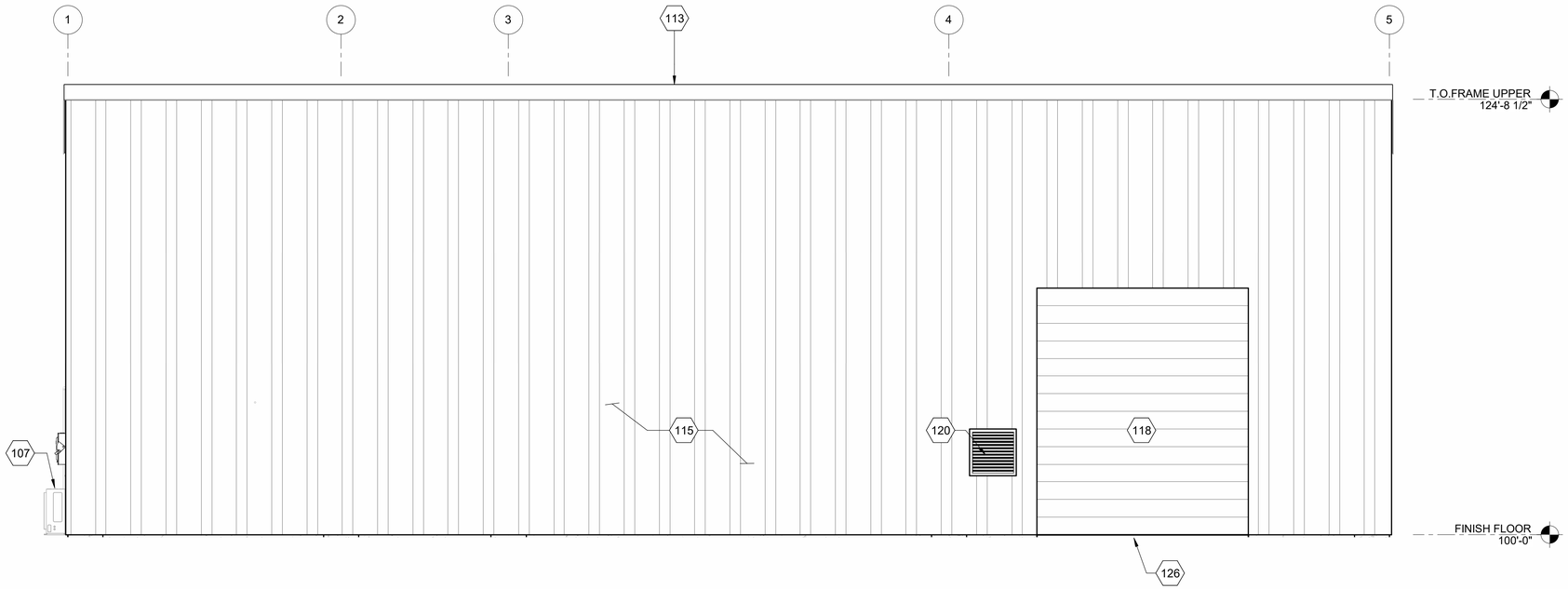
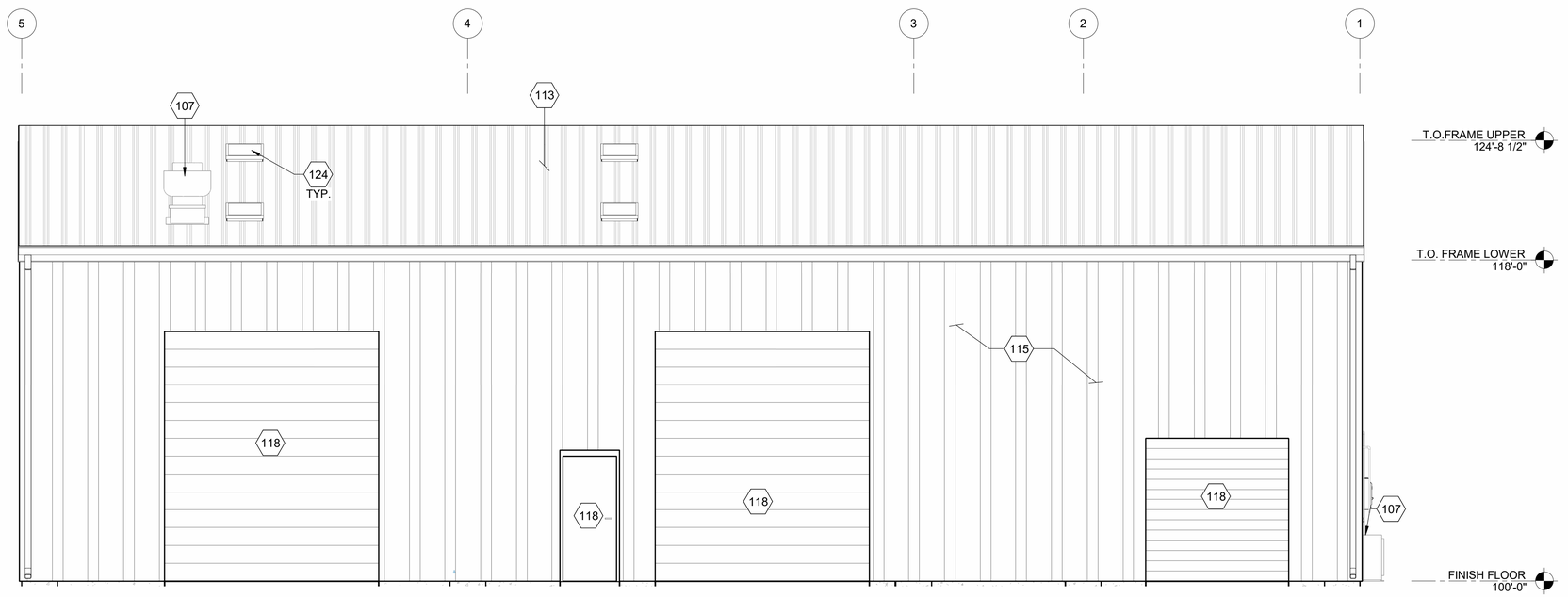


B1 NORTH

1/4" = 1'-0"

1/4" 0 2' 4' 8'



A1 SOUTH

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, & EQUIPMENT VENDORS.
2. DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR NOMINAL FACE OF GRIDLINES.
3. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
4. COORDINATE WITH BUILDING SECTIONS & STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.

SHEET KEYNOTES

107	ROOF MOUNTED MECHANICAL EQUIPMENT. THE METAL BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING AS NEEDED FOR THE SUPPORT OF THE MECHANICAL UNIT AND MECHANICAL UNIT CURB. COORDINATE WITH MECHANICAL PLANS FOR DUCT PENETRATION SIZE AND WEIGHT OF THE MECHANICAL UNIT. THE MECHANICAL CONTRACTOR SHALL DESIGN AND SUPPLY THE MECHANICAL UNIT CURB AND THE ATTACHMENT TO THE METAL BUILDING FRAMING.
113	METAL ROOF ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE ROOF CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF ROOF ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS
115	METAL WALL ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE WALL CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF WALL ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS
118	DOOR & FRAME; RE: PLAN
120	LOUVER; RE: MECHANICAL PLANS
124	24" X 48" SKYLIGHT. METAL BUILDING MANUFACTURER TO PROVIDE SKYLIGHT, CURB, AND ALL REQUIRED FLASHING AND ATTACHMENTS.
126	CONTRACTOR TO INSTALL FACE MOUNTED DOCK LEVELER SUPPLIED BY THE OWNER.

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - ELEVATIONS

DRAWN: BPB | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 57

SHEET NO. A-201-G

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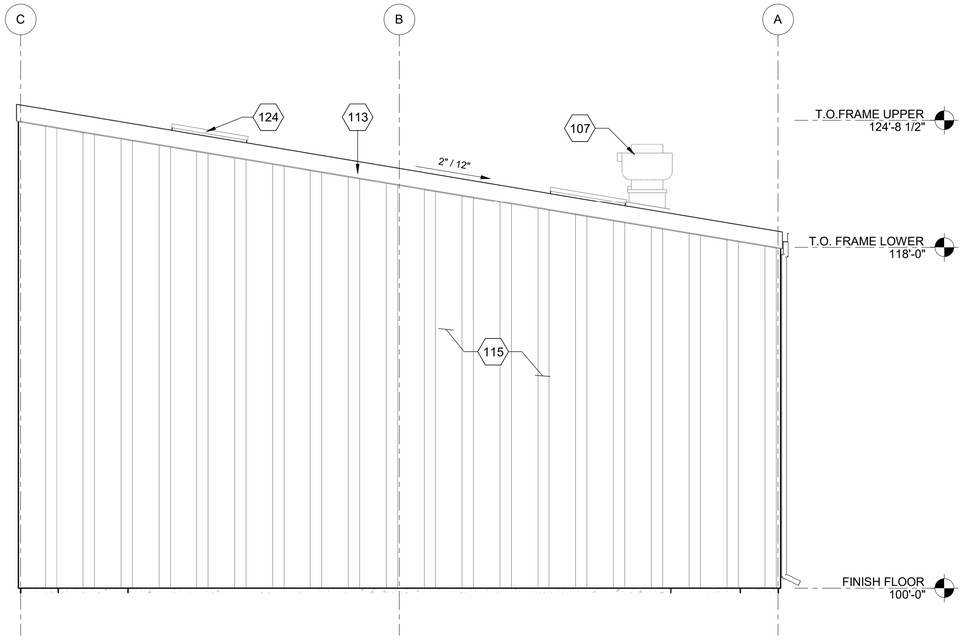
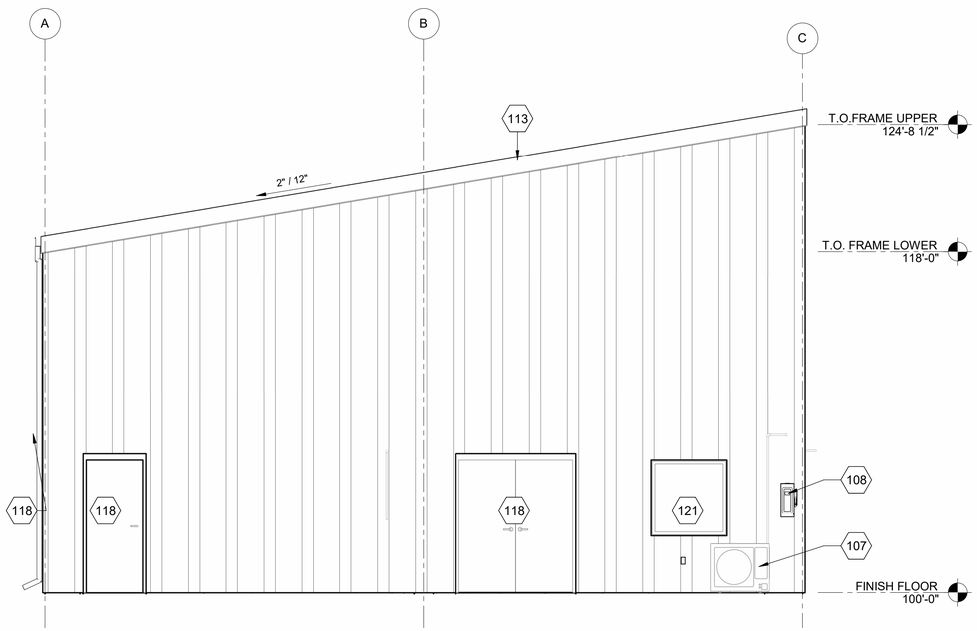


B1 WEST

1/4" = 1'-0"

1/4" 0 2' 4' 8'



A1 EAST

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. CONTRACTOR TO COORDINATE ARCHITECTURAL DRAWINGS WITH PLUMBING, MECHANICAL, ELECTRICAL, STRUCTURAL, & EQUIPMENT VENDORS.
2. DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR NOMINAL FACE OF GRIDLINES.
3. COORDINATE ALL FLOOR & WALL PENETRATIONS WITH RESPECTIVE TRADES.
4. COORDINATE WITH BUILDING SECTIONS & STRUCTURAL DRAWINGS FOR FINISH FLOOR ELEVATIONS.

SHEET KEYNOTES

107 ROOF MOUNTED MECHANICAL EQUIPMENT. THE METAL BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING AS NEEDED FOR THE SUPPORT OF THE MECHANICAL UNIT AND MECHANICAL UNIT CURB. COORDINATE WITH MECHANICAL PLANS FOR DUCT PENETRATION SIZE AND WEIGHT OF THE MECHANICAL UNIT. THE MECHANICAL CONTRACTOR SHALL DESIGN AND SUPPLY THE MECHANICAL UNIT CURB AND THE ATTACHMENT TO THE METAL BUILDING FRAMING.

108 ELECTRICAL EQUIPMENT; RE ELECTRICAL PLANS

113 METAL ROOF ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE ROOF CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF ROOF ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS

115 METAL WALL ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE WALL CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF WALL ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS

118 DOOR & FRAME; RE: PLAN

121 WINDOW; RE: WINDOW SCHEDULE A-601-G

124 24" X 48" SKYLIGHT. METAL BUILDING MANUFACTURER TO PROVIDE SKYLIGHT, CURB, AND ALL REQUIRED FLASHING AND ATTACHMENTS.

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
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STRUCTURAL
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79041PE
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - ELEVATIONS

DRAWN: BPB CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 58

SHEET NO. A-202-G

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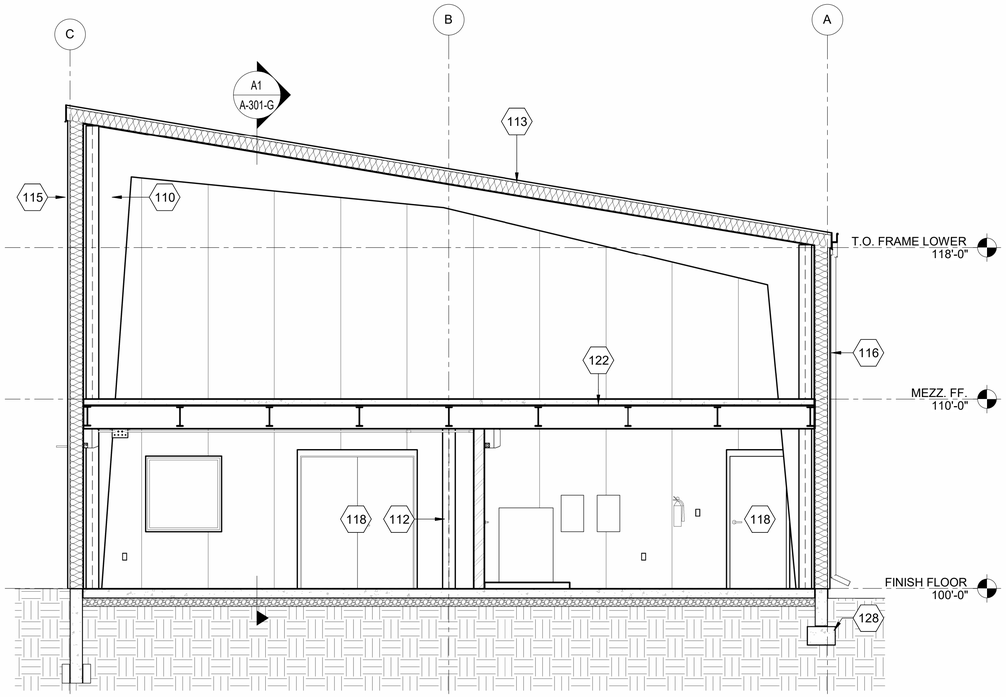
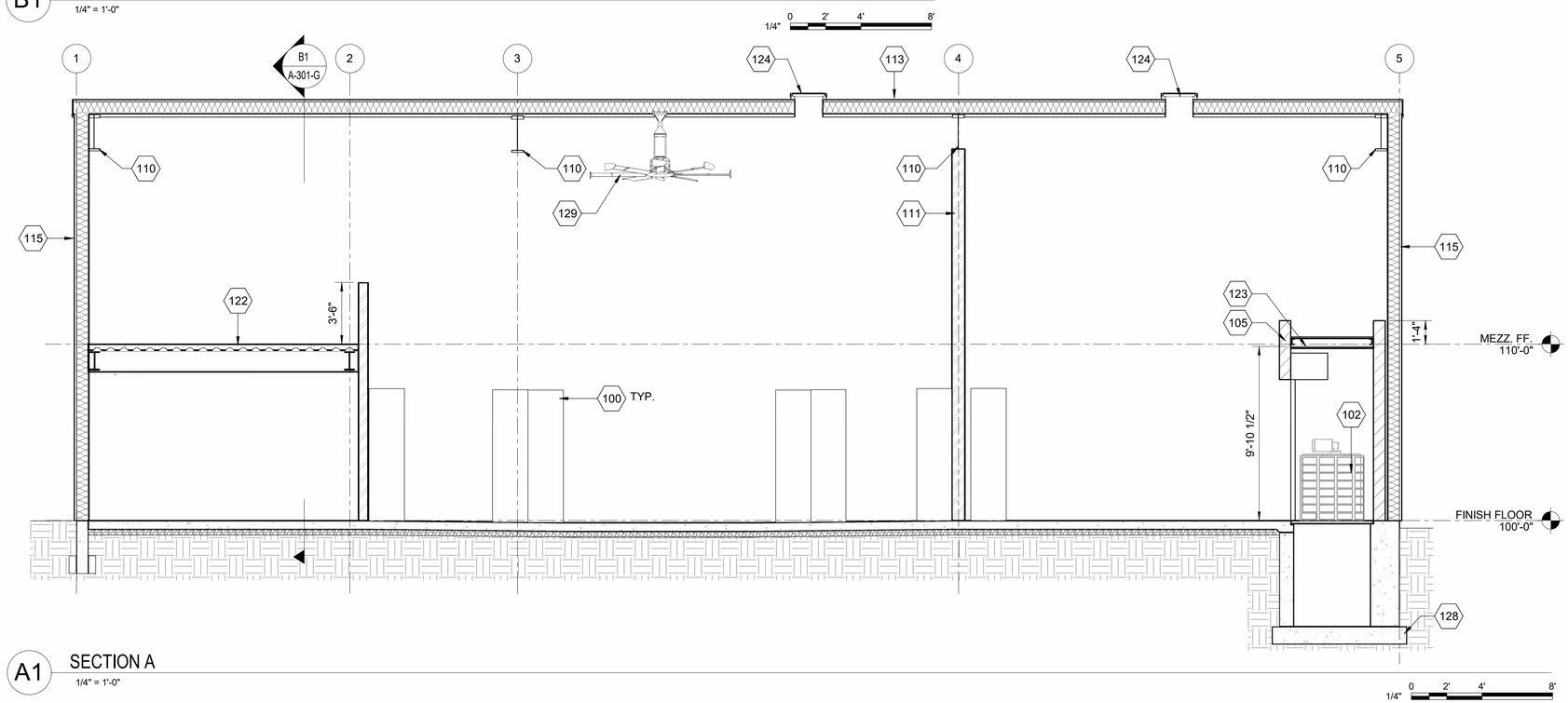


B1 SECTION B

1/4" = 1'-0"



A1 SECTION A

1/4" = 1'-0"

GENERAL SHEET NOTES

1. SEE TYPICAL DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPANCIES WITH THE ENGINEER, RE: ARCH FOR ADDITIONAL DIMENSIONS.

SHEET KEYNOTES

100 STORAGE SHELVING PROVIDED BY OWNER
102 MECHANICAL/ PLUMBING EQUIPMENT; RE: MECHANICAL/PLUMBING PLANS
105 ONE HOUR RATED (MINIMUM) CONCRETE MASONRY WALL FOR FIRE CONTROL AREA – ALL PENETRATIONS TO HAVE FIRE RATING TO MATCH WALL RATING
110 METAL BUILDING FRAME; RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. CAULK /SEAL METAL LINER PANELS AT PRE-ENGINEERED METAL BUILDING MAIN FRAME AS REQUIRED.
111 FRAMED WALL TO FACE OF PRE-ENGINEERED METAL BUILDING COLUMN; RE STRUCTURAL FOR ATTACHMENT
112 MEZZANINE COLUMN – CAULK GYPSUM WALL BOARD AT COLUMN ATTACHMENT IF COLUMN IS WIDER THAN WALL STUD WIDTH (AS REQUIRED)
113 METAL ROOF ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE ROOF CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF ROOF ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS
115 METAL WALL ASSEMBLY BY PRE-ENGINEERED BUILDING MANUFACTURER RE: PRE-ENGINEERED METAL BUILDING DRAWINGS. PRE-ENGINEERED BUILDING MANUFACTURER TO SUPPLY INSULATION (RE: SPECIFICATIONS) AND ENSURE WALL CAVITY IS ADEQUATE FOR INSULATION THICKNESS. INTERIOR FINISH SIDE OF WALL ASSEMBLY SHALL BE METAL LINER PANEL (SUPPLIED BY PRE-ENGINEERED BUILDING MANUFACTURER) RE: SPECIFICATIONS
116 FASCIA AND TRIM, BY PEMB, COLOR BY OWNER
118 DOOR & FRAME; RE: PLAN
122 CONRETE SLAB ON METAL DECK ATTACHED TO MEZZANINE FRAMING BY PRE-ENGINEERED BUILDING MANUFACTURER. FOR ADDITIONAL INFORMATION; RE: S-103-G
123 1-HOUR (MINIMUM) RATED CEILING AT CONTROL AREAS: (2) LAYERS OF 5/8" TYPE "X" GYPSUM BOARD ATTACHED TO FRAMING, SEAMS STAGGERED. FIRE CAULK ALL FASTENER HEADS AND CONNECTION BETWEEN GYPSUM BOARD AND CMU, ALL SIDES. RATING PER TABLE 722.2.1.4(2) OSSC 2025
124 24" X 48" SKYLIGHT. METAL BUILDING MANUFACTURER TO PROVIDE SKYLIGHT, CURB, AND ALL REQUIRED FLASHING AND ATTACHMENTS.
128 CONCRETE FOOTING; RE: STRUCTURAL
129 CEILING FAN; RE: HVAC & ELECTRICAL

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.06.03 15:56:53-08'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - BUILDING SECTIONS

DRAWN: BPB | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 59

SHEET NO. A-301-G

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ROOM SCHEDULE													
NUMBER	NAME	FLOOR MATERIAL	FLOOR FINISH	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	CEILING MATERIAL	NOTES
101	FERRIC CHLORIDE	C-1	CS-1	M-1	MS-1	M-1	MS-1	M-1	MS-1	M-1	MS-1	DA-1	
102	PAC-14	C-1	CS-1	M-1	MS-1	M-1	MS-1	M-1	MS-1	M-1	MS-1	DA-1	
103	CHEMICAL STORAGE	C-1	CS-1	PEMB	MP	PEMB	MP	PEMB	MP	PEMB	MP	MP	
104	STORAGE	C-1	CS-1	PEMB	MP	PEMB	MP	PEMB	MP	PEMB	MP	MP	
105	PPE STORAGE	C-1	CS-1	PEMB	MP	PEMB	MP	PEMB	MP	PEMB	MP	MD-1	
106	STORAGE	C-1	CS-1	PEMB	MP	PEMB	MP	PEMB	MP	PEMB	MP	MD-1	

KEYLIST:
*SEE SPECIFICATIONS FOR MATERIAL AND FINISH SELECTIONS

BASE MATERIAL:
- C-1 = CONCRETE
- CFS = COLD FORMED STEEL STUDS
- PEMB = PEMB WALL STRUCTURE, BY PEMB MANUFACTURER

FINISH:
- CS-1 = CONCRETE SEALER
- MP = METAL LINER PANEL (BY PEMB MANUFACTURER)

CEILING:
- MD-1 = EXPOSED METAL DECK AND STRUCTURE, SEE STRUCTURAL

C1 ROOM FINISH SCHEDULE

NTS

DOOR SCHEDULE															
DOOR NUMBER	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR FINISH	DOOR FRAME WIDTH	DOOR FRAME HEIGHT	DOOR FRAME MATERIAL	DOOR FRAME FINISH	DOOR HARDWARE SET	FIRE RATING	DOOR HEAD DETAIL	DOOR JAMB DETAIL	DOOR SILL DETAIL	NOTES
101	E	8'-0"	8'-0"	1"	NOTE 3	--	--	STEEL	NOTE 3	2	45 MIN.	A1000	A1001	-	PROVIDE HADRWARE, FLASHING, WEATHERSTRIPPING ETC. FOR A 45 MINUTE FIRE RATED INSTALLATION
102	E	8'-0"	8'-0"	1"	NOTE 3	--	--	STEEL	NOTE 3	2	45 MIN.	A1000	A1001	-	PROVIDE HADRWARE, FLASHING, WEATHERSTRIPPING ETC. FOR A 45 MINUTE FIRE RATED INSTALLATION
103A	E	12'-0"	14'-0"	1"	NOTE 3	--	--	STEEL	NOTE 3	1		A6000	A6001	A0202	
103B	E	12'-0"	14'-0"	1"	NOTE 3	--	--	STEEL	NOTE 3	1		A6000	A6001	A0202	
103C	A	3'-0"	7'-0"	1 3/4"	NOTE 3	3'-4"	7'-2"	STEEL	NOTE 3	5		A3000	A3001	-	
104A	A	3'-0"	7'-0"	1 3/4"	NOTE 3	3'-4"	7'-2"	STEEL	NOTE 3	3		A6002	A6002	A0203	
104B	E	12'-0"	14'-0"	1"	NOTE 3	--	--	STEEL	NOTE 3	1		A6000	A6001	A0202	
105A	D	6'-0"	7'-0"	1 3/4"	NOTE 3	6'-4"	7'-2"	STEEL	NOTE 3	4		A6002	A6002	A0203	
105B	A	3'-0"	7'-0"	1 3/4"	NOTE 3	3'-4"	7'-2"	STEEL	NOTE 3	5		A3000	A3001	-	
106A	E	8'-0"	8'-0"	1"	NOTE 3	--	--	STEEL	NOTE 3	1		A6000	A6001	A0202	PROVIDE HADRWARE, FLASHING, WEATHERSTRIPPING ETC. FOR A WEATHERPROOF EXTERIOR MOUNTED APPLICATION
106B	A	3'-0"	7'-0"	1 3/4"	NOTE 3	3'-4"	7'-2"	STEEL	NOTE 3	3		A6002	A6002	A0203	
106C	A	3'-0"	7'-0"	1 3/4"	NOTE 3	3'-4"	7'-2"	STEEL	NOTE 3	5		A3000	A3001	-	

1. HARDWARE IS PER SECTION 08 71 00 - DOOR HARDWARE.
2. FOR DOOR TYPE RE: A0200
3. HOT DIP GALVANNEAL, FACTORY PRIME PER SPECIFICATION 08 11 13 AND FIELD COATED PER SPECIFICATION 09 90 00. FINISH COLOR TO BE SELECTED BY OWNER.

B1 DOOR SCHEDULE

NTS

MARK	SIZE			DETAILS		HEAD ELEVATION	NOTES
	TYPE(1)	WIDTH	HEIGHT	JAMB/HEAD	SILL		
A	A	4'-0"	3'-4"	A202	A201	107'-2"	

NOTE:
1. FOR WINDOW TYPE RE: A0250

A1 WINDOW SCHEDULE

NTS

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
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OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - ARCHITECTURAL SCHEDULES

DRAWN: BPB | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 60

SHEET NO. A-601-G

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Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2022) Standard
Project Title:	Pendleton Chemical Storage
Location:	Pendleton, Oregon
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	0.003
Performance Sim. Specs:	EnergyPlus 24.1.0 (EPW:)
Project Sub Type:	New Building/Complete

Construction Site:
4300 SW 28th Dr
Pendleton , Oregon 97801

Owner/Agent:
City of Pendleton

Designer/Contractor:
Bret Bartron
Keller Associates
Meridian , Idaho 83642

bbartron@kellerassociates.com

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof:Roof, Single Insulation Layer with Thermal Blocks (d), Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	3200	25.00	0.00	0.082	0.082
Floor:Floor, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse] (c)	230	---	---	0.730	0.730
NORTH					
Ext Wall:Ext Wall, Single Layer Mineral Fiber (in cavity, thermal block at girt), Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	1853	25.00	0.00	0.059	0.094
Door:Door 1, Garage door < 14% glazing, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	400	---	---	0.250	0.370
Door:Door, Swinging, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	21	---	---	0.210	0.370
EAST					
Ext Wall:Ext Wall 1, Single Layer Mineral Fiber (in cavity, thermal block at girt), Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	853	25.00	0.00	0.059	0.094
SOUTH					
Ext Wall:Ext Wall 2, Single Layer Mineral Fiber (in cavity, thermal block at girt), Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	1341	25.00	0.00	0.059	0.094
Door:Door 1 1, Garage door < 14% glazing, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	168	---	---	0.250	0.370
Door:Door 2, Swinging, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	21	---	---	0.210	0.370
WEST					
Ext Wall:Ext Wall 3, Single Layer Mineral Fiber (in cavity, thermal block at girt), Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	853	25.00	0.00	0.059	0.094
Window:Window, Perf. Specs.: Product ID na, SHGC 0.30, VT 0.10, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse] (b)	16	---	---	0.350	0.500
Door:Door 2 1, Swinging, Semi-Exterior Envelope, [Bldg. Use 1 - Warehouse]	63	---	---	0.210	0.370

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope PASSES: Design 0.0% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2022) Standard requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

BRET BARTRON		12-15-2025
Name - Title	**Signature**	**Date**

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KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL
REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.03.01
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

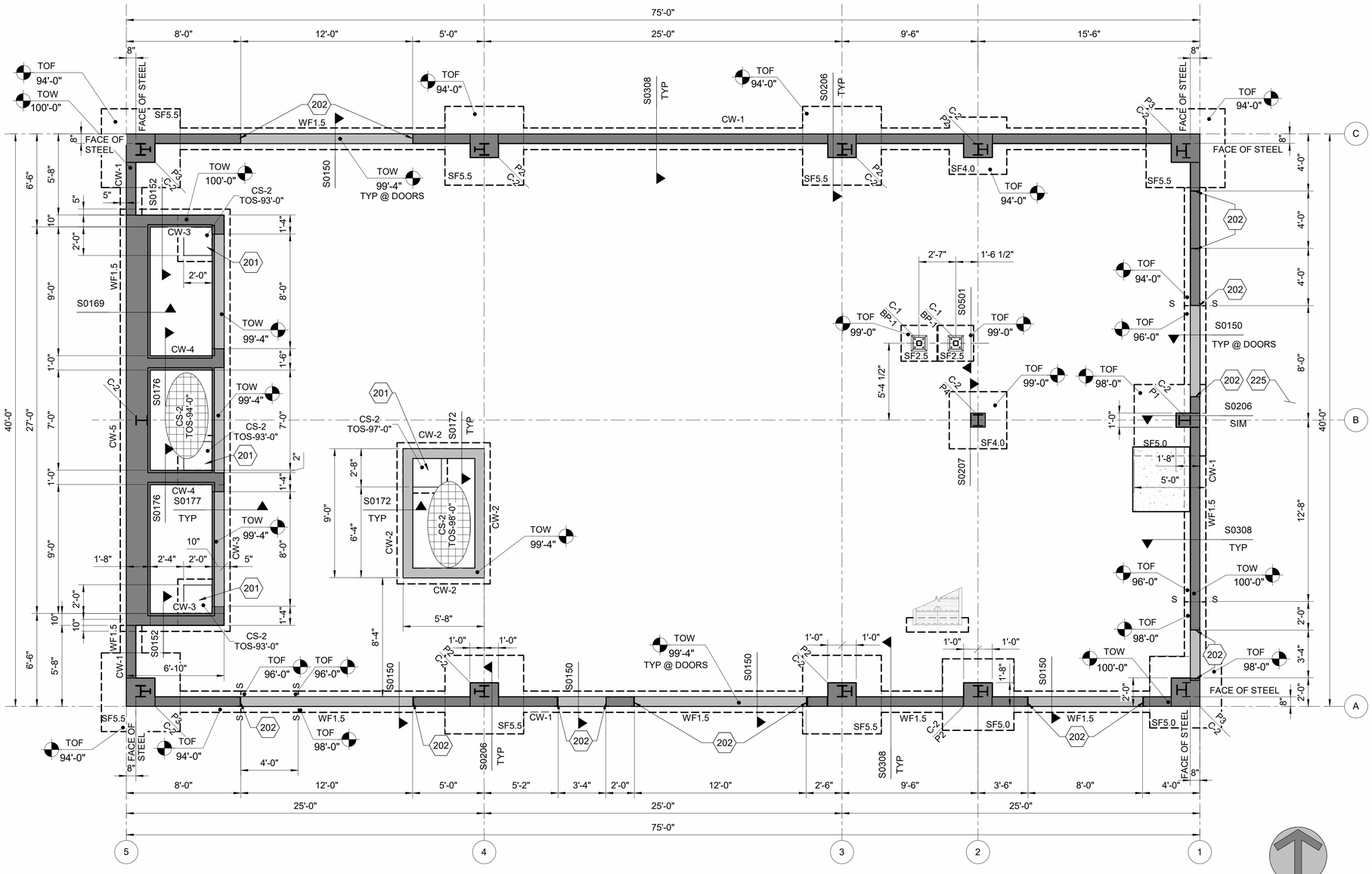
COMCHECK REPORT

DRAWN: BPB CHECK: -

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001
PAGE 61

SHEET NO. A-602-G



A1 FOUNDATION AND FOOTING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

STRUCTURE "G" REF ELEV FINISH FLOOR 100'-0" = RE: CIVIL

FOUNDATION NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS, PRIOR TO CONSTRUCTION, RESOLVE ANY DISCREPANCIES WITH EOR, ARCHITECT AND METAL BUILDING MANUFACTURER
3. CONTRACTOR TO VERIFY LOCATION OF ALL INSERTS IN SLAB WITH APPROVED MECHANICAL, PLUMBING, & ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
4. TOP OF FOOTING ELEVATION = 98'-0" UNO
5. CONTRACTOR SHALL VERIFY ALL BASE PLATE AND ANCHOR LOCATIONS WITH THE METAL BUILDING MANUFACTURER.
6. METAL BUILDING PIERS AND FOUNDATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY AND MUST BE REVIEWED BY THE EOR WITH THE APPROVED METAL BUILDING PLANS PRIOR TO CONSTRUCTION. ANY REQUIRED REVISIONS TO THE METAL BUILDING PIERS AND FOOTINGS SHALL BE AT NO COST TO THE OWNER.
7. CENTER ALL SPREAD FOOTINGS ON CONCRETE PIERS
8. TOP OF PIERS ELEVATION = 100'-0" UNO

SHEET KEYNOTES

201 2'-0" X 2'-0" SUMP PIT; RE: S2252

202 DOOR AND WINDOW FRAMING PROVIDED BY METAL BUILDING MANUFACTURER. COORDINATE w/ ARCHITECTURAL PLANS. TYPICAL AT EXTERIOR DOORS AND WINDOW

225 EXISTING DIGESTER LID STAGED AREA. CONTRACTOR RESPONSIBLE FOR COORDINATION DURING CONSTRUCTION, RE: SITE PLANS FOR LOCATION & RE: SPECIFICATION SECTION 01 35 13 – SPECIAL PROJECT PROCEDURES.

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

SF #	SPREAD FOOTING; RE: SCHEDULE BELOW
WF #	WALL FOOTING; RE: SCHEDULE BELOW
P#	CONCRETE PIER; RE: SCHEDULE BELOW
CS-#	CONCRETE SLAB; RE: SCHEDULE BELOW
C#	COLUMN; RE: SCHEDULE BELOW
BP#	BASE PLATE; RE: SCHEDULE BELOW
S-----S	STEP FOOTING; RE: S0100

CONCRETE WALL SCHEDULE

MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	NOTES
CW-1	8"	#5 @ 16" OC	#5 @ 12" OC	NOTES 1, 2 & 3
CW-2	8"	#5 @ 6" OC	#5 @ 6" OC	NOTES 1, 2 & 4
CW-3	10"	#5 @ 6" OC EACH FACE	#5 @ 6" OC EACH FACE	NOTES 2 & 4
CW-4	12"	#5 @ 6" OC EACH FACE	#5 @ 6" OC EACH FACE	NOTES 2 & 4
CW-5	20"	#5 @ 6" OC EACH FACE	#5 @ 6" OC EACH FACE	NOTES 2 & 4

NOTES:
1. FOR LAP SPLICE LENGTHS; RE: S0005 UNO
2. FOR REINFORCING AT WALL INTERSECTIONS; RE: S0003
3. CENTER VERTICAL REINFORCING BARS
4. USE CLASS B LAP SPLICES PER S0005

FOOTING SCHEDULE

MARK	SIZE			BOTTOM REINFORCING	TOP REINFORCING
	WIDTH	LENGTH	THICK		
SF2.5	2'-6"	2'-6"	1'-0"	(3) #5 BARS EW	NONE
SF4.0	4'-0"	4'-0"	1'-0"	(5) #5 BARS EW	NONE
SF5.0	5'-0"	5'-0"	1'-2"	(6) #5 BARS EW	NONE
SF5.5	5'-6"	5'-6"	1'-6"	(6) #5 BARS EW	(6) #5 BARS EW
WF1.5	1'-6"	CONT.	1'-0"	(3) #5 BARS CONT.	NONE

COLUMN SCHEDULE

MARK	COLUMN	DETAILS	NOTES
C-1	HSS4x4x1/4	S0501	NOTE 1
C-2	PRE-ENGINEERED METAL BUILDING COLUMN	RE: PLAN	NOTE 2

NOTES:
1. STEEL COLUMN
2. PRE-ENGINEERED METAL BUILDING COLUMNS & BASE PLATES ARE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER

PIER SCHEDULE

MARK	SIZE	DETAILS	NOTES
P1	12x20	S0206	
P2	20x24	S0206	
P3	24x24	S0206	
P4	12x12	S0207	

BASE PLATE SCHEDULE

MARK	THICKNESS	MATERIAL	"N" DIMENSION	"B" DIMENSION	ANCHOR SIZE TYPE & EMBEDMENT	TYPE SEE NOTE 1
BP-1	1/2"	STEEL	10"	10"	(4) 1/2" DIA ANCHOR RODS w/ 5" MIN EMBEDMENT	A

NOTE:
1. FOR BASE PLATE TYPE RE: S0012

CONCRETE FLOOR SCHEDULE

MARK	THICK	REINFORCING	NOTES
CS-1	6"	#5 BARS @ 12" OC EW	NOTES 1 & 2
CS-2	1'-0"	#5 BARS @ 6" OC EW TOP & BOTTOM	NOTE 3

NOTES:
1. FOR SLAB ON GRADE INFORMATION; RE: GENERAL STRUCTURAL NOTES, S1250 & S1300
2. FOR LAP SPLICE LENGTHS RE: S0005
3. USE CLASS B LAP SPLICES PER S0005

KELLER ASSOCIATES
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(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 79041PE OREGON JULY 2, 2011 BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - FOUNDATION & FOOTING PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 62

SHEET NO. S-101-G

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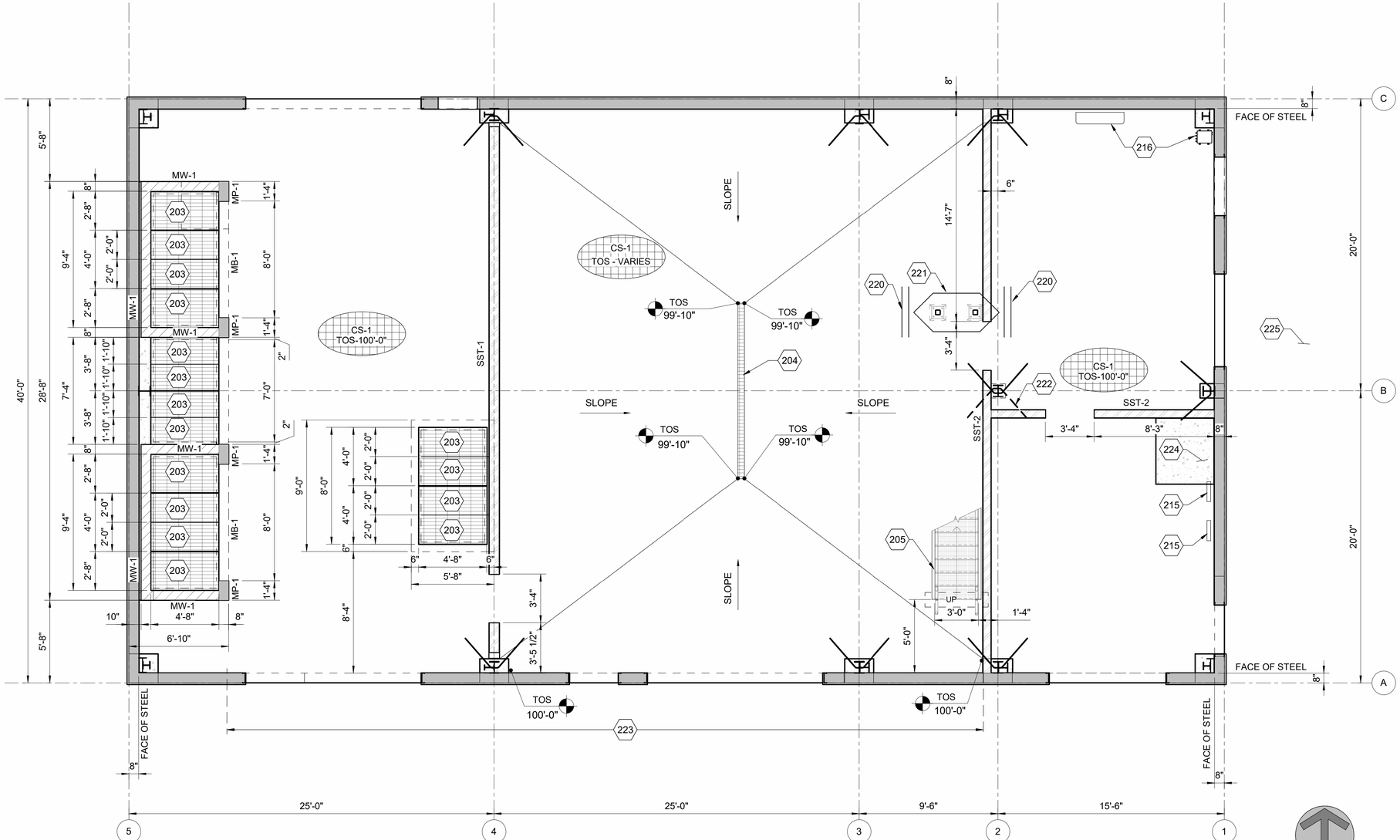

A1 SLAB, WALL AND GRATING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, EQUIPMENT VENDORS AND PRE-ENGINEERED METAL BUILDING MANUFACTURER DRAWINGS PRIOR TO CONSTRUCTION AND RESOLVE ANY DISCREPANCIES WITH EOR.
3. CONTRACTOR TO VERIFY LOCATION OF ALL INSERTS IN SLAB AND GRATING WITH APPROVED MECHANICAL, PLUMBING, & ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
4. TOP OF SLAB ELEVATION = 100'-0" UNO
5. TOP OF PIERS ELEVATION = 100'-0" UNO
6. THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL DESIGN AND SUPPLY ADDITIONAL ROOF SUPPORT FRAMING FOR CEILING FANS HUNG FROM THE PRE-ENGINEERED ROOF SYSTEM. DESIGN SUPPORT FRAMING FOR 500# UNIT WEIGHT EACH UNIT. COORDINATE SIZE, LOCATION AND MOUNTING REQUIREMENTS WITH MECHANICAL AND SELECTED EQUIPMENT SUPPLIER. RE: MECHANICAL

SHEET KEYNOTES

203 GRATING SHALL BE 2" REMOVABLE PULTRUDED FIBERGLASS GRATING. GRATING SHALL BE DESIGNED FOR A 500 PSF UNIFORM LIVE LOAD OR A 3000 LB CONCENTRATED LIVE LOAD. GRATING SHALL BE SUBMITTED AS A DEFERRED SUBMITTAL. FOR ADDITIONAL INFORMATION, RE: S8300.

204 TRENCH DRAIN, RE: S1307 AND PLUMBING

205 STEEL STAIR, RE: ARCHITECTURAL, A1/S-401-G & A2/S-401-G

215 THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL DESIGN AND SUPPLY ADDITIONAL WALL SUPPORT FRAMING FOR AN ELECTRICAL PANEL HUNG FROM THE PRE-ENGINEERED METAL WALL PANEL. DESIGN SUPPORT FRAMING FOR 200# UNIT WEIGHTS. COORDINATE SIZE, LOCATION AND MOUNTING REQUIREMENTS WITH ELECTRICAL AND SELECTED EQUIPMENT SUPPLIER

216 THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL DESIGN AND SUPPLY ADDITIONAL WALL SUPPORT FRAMING FOR A MECHANICAL UNIT HUNG FROM THE PRE-ENGINEERED METAL WALL PANEL. DESIGN SUPPORT FRAMING FOR 150# UNIT WEIGHT. COORDINATE SIZE, LOCATION AND MOUNTING REQUIREMENTS WITH MECHANICAL, PLUMBING, AND SELECTED EQUIPMENT SUPPLIER

220 (2) #4 RE-ENTRANT CORNER BARS; RE: S1250

221 CONCRETE INFILL POUR; RE: S0501

222 ALTERNATE DIRECTION OF SLAB HAIRPINS; RE: S0207

223 THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL DESIGN AND SUPPLY ADDITIONAL WALL SUPPORT FRAMING FOR THE PLUMBING LINES HUNGFROM THE PRE-ENGINEERED METAL WALL PANEL. DESIGN SUPPORT FRAMING FOR 30 PLF WEIGHT. COORDINATE SIZE, LOCATION AND MOUNTING REQUIREMENTS WITH MECHANICAL, PLUMBING AND SELECTED EQUIPMENT SUPPLIER

224 4'-0" x 4'-6"W ELECTRICAL EQUIPMENT PAD; RE: ELECT & S1505

225 EXISTING DIGESTER LID STAGED AREA. CONTRACTOR RESPONSIBLE FOR COORDINATION DURING CONSTRUCTION, RE: SITE PLANS FOR LOCATION & RE: SPECIFICATION SECTION 01 35 13 – SPECIAL PROJECT PROCEDURES.

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

CS-#	CONCRETE SLAB, RE: SCHEDULE ON SHEET S-101-G
MW-#	MASONRY WALL, RE: SCHEDULE BELOW
MP-#	CMU PIER CALLOUT, RE: S7956 & S7955
MB-#	CMU BEAM CALLOUT, RE: S7956 & S7954
SST-#	COLD FORMED STEEL STUD WALL; RE: SCHEDULE BELOW

4'-0" / 4'-0" — #5 SLAB HAIRPINS HOOKED AROUND COLUMN ANCHOR BOLTS TYPICAL WHERE SHOWN; RE: S0206

MASONRY WALL SCHEDULE

MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	NOTES
MW-1	8"	#5 @ 32" OC CENTERED	(2) #4 @ 48" OC	SOLID GROUT

NOTES: SOLID GROUT; RE: S7956, GENERAL STRUCTURAL NOTES, MASONRY FOR ADDITIONAL INFORMATION

MASONRY WALL SCHEDULE

MARK	THICK	VERTICAL REINFORCING	HORIZONTAL REINFORCING	NOTES
MW-1	8"	#5 @ 32" OC CENTERED	(2) #4 @ 48" OC	SOLID GROUT

MASONRY JAMB/PIER SCHEDULE

MARK	WIDTH	LENGTH	VERTICAL REINF	NOTES
MP-1	8"	16"	#5 @ 8" (2) TOTAL	CENTERED

NOTES:
RE: S7956, GENERAL STRUCTURAL NOTES, & MASONRY FOR ADDITIONAL INFORMATION.

MASONRY BEAM SCHEDULE

CMU OPENING	WIDTH	DEPTH	HORIZONTAL REINF
MB-1	8"	16"	(2) #5 BOTTOM

NOTES:
SOLID GROUT, RE: S7953, S7956, GENERAL STRUCTURAL NOTES, MASONRY & DETAILS FOR ADDITIONAL INFORMATION.

STEEL STUD WALL SCHEDULE

MARK	STUD	BOTTOM TRACK & ATTACHMENT	TOP TRACK & ATTACHMENT
SST-1	600S162-54 STUDS @ 16" OC, NOTE 4	600T200-54, NOTE 1	600T250-54 NOTE 2
SST-2	600S162-54 STUDS @ 16" OC, NOTE 4	600T200-54, NOTE 1	600T250-54 NOTE 3

NOTES:
1. ATTACH TRACK WITH 0.157" DIA HILTI X-U LOW VELOCITY FASTENERS @ 16" OC. PROVIDE 1 1/2" MIN EMBED INTO CONCRETE; RE: S5071
2. FOR ADDITIONAL INFORMATION; RE: S5080
3. FOR ADDITIONAL INFORMATION; RE: S5080
4. FOR FRAMING AT OPENING; RE: S5070

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OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - SLAB, WALL AND GRATING PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 63

SHEET NO. S-102-G

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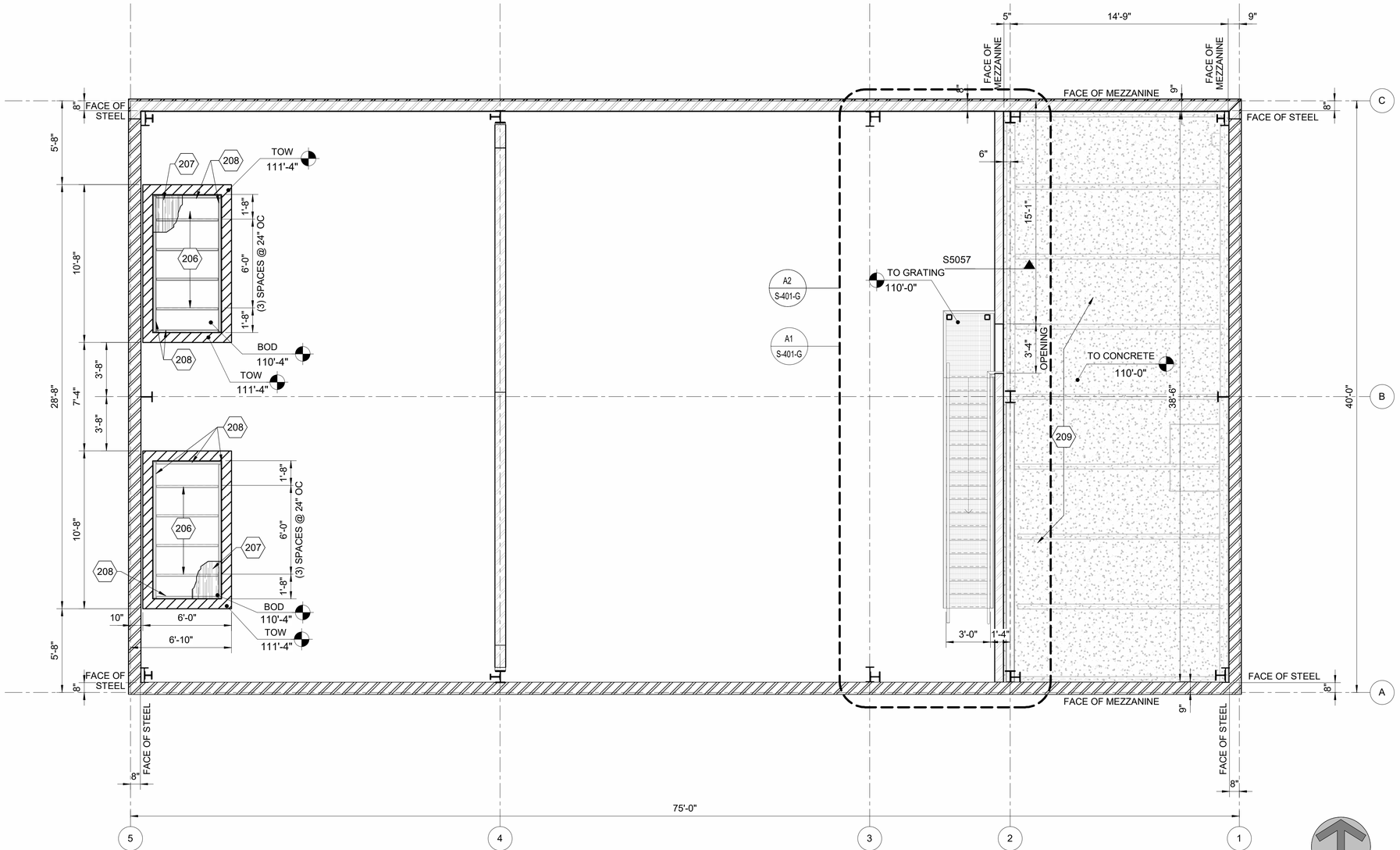

A1 MEZZANINE & CHEMICAL CONTAINMENT ENCLOSURE FRAMING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

FLOOR SHEET NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, EQUIPMENT VENDORS AND PRE-ENGINEERED METAL BUILDING MANUFACTURER DRAWINGS PRIOR TO CONSTRUCTION AND RESOLVE ANY DISCREPANCIES WITH EOR.
3. CONTRACTOR TO VERIFY LOCATION OF ALL INSERTS IN SLAB AND GRATING WITH APPROVED MECHANICAL, PLUMBING, & ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
4. TOP OF MEZZANINE ELEVATION = 110'-0" UNO

SHEET KEYNOTES

206 362S162-54 COLD FORMED STEEL CEILING JOISTS @ 24" OC

207 1/2" APA RATED SHEATHING w/ (32/16) MINIMUM SPAN RATING ATTACHED AS FOLLOWS:
#8 SCREWS @ 6" OC EDGES & BOUNDARIES
#8 SCREWS @ 12" OC FIELD, ((INTERMEDIATE FRAMING MEMBERS)

208 362T200-68 COLD FORMED STEEL TRACK LEDGER WITH 5/8" DIAMETER CONCRETE SCREW ANCHOR. ANCHOR TO BE EMBEDDED A MINIMUM OF 5" INTO SOLID GROUTED MASONRY AT 32" OC. LOCATE 4" MAXIMUM FROM END OF LEDGER. AT JOISTS, PROVIDE #10 SCREW TOP AND BOTTOM TO EACH JOIST.

209 ALL STEEL FRAMING, INCLUDING THE STEEL DECK FOR THE MEZZANINE, SHALL BE DESIGNED AND SUPPLIED AS PART OF THE PRE-ENGINEERED METAL BULDING PACKAGE. THE STEEL FRAMING FOR THE MEZZANINE DESIGN SHALL BE DESIGNED AND SUPPLIED WITH THE FOLLOWING CRITERIA:

MEZZANINE LIVE LOAD:	125 PSF NON-REDUCIBLE
CONCRETE TOPPING COLLATERAL	
DEAD LOAD:	40 PSF MAX
MISCELLANEOUS COLLATERAL DEAD LOAD:	10 PSF

STEEL DECK SHALL BE SUPPLIED BY THE PRE ENGINEERED METAL BUILDING MANUFACTURER AND SHALL BE A 1 1/2" COMPOSITE STEEL DECK AS MANUFACTURED BY VERCO OR APPROVED EQUAL. THE DECK THICKNESS AND ATTACHMENT TO THE STEEL MEZZANINE FRAMING SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER.

CONCRETE TOPPING OVER THE STEEL DECK SHALL BE NORMAL WEIGHT CONCRETE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR. THE TOTAL THICKNESS OF THE CONCRETE TOPPING SHALL BE 4" AND SHALL BE REINFORCED WITH A 6x6 (D/W) 2.1 x (D/W) 2.1 WELDED WIRE FABRIC LOCATED 2" FROM TOP OF SLAB.

BENT STEEL EDGE CLOSURE PLATE AROUND THE PERIMETER OF THE DECK SHALL BE DESIGNED AND SUPPLIED BY THE THE PRE ENGINEERED METAL BUILDING MANUFACTURER AND SHALL HAVE A 3/16" MINIMUM THICKNESS.

THE STRUCTURAL STEEL JOIST AND BEAM FRAMING SYSTEM SHALL CONSIST OF WIDE FLANGE STRUCTURAL STEEL MEMBERS WITH A 12" MINIMUM NOMINAL DEPTH, DESIGNED AND SUPPLIED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER. THE JOIST AND BEAM FRAMING MEMBERS SHALL MEET THE FOLLOWING MINIMUM VERTICAL DEFLECTION CRITERIA:

LIVE LOAD DEFLECTION:	L/480 MAXIMUM
TOTAL LOAD DEFLECTION:	L/360 MAXIMUM

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - MEZZANINE & CHEMICAL CONTAINMENT ENCLOSURE FRAMING PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 64

SHEET NO. S-103-G

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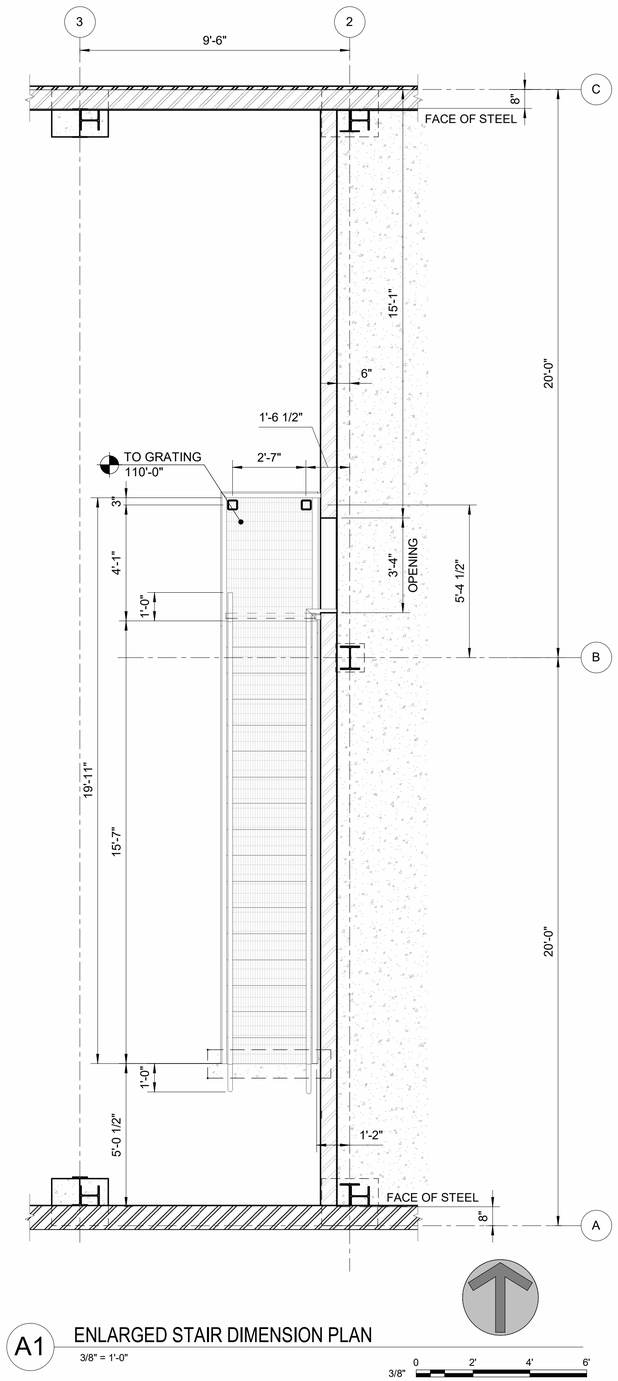
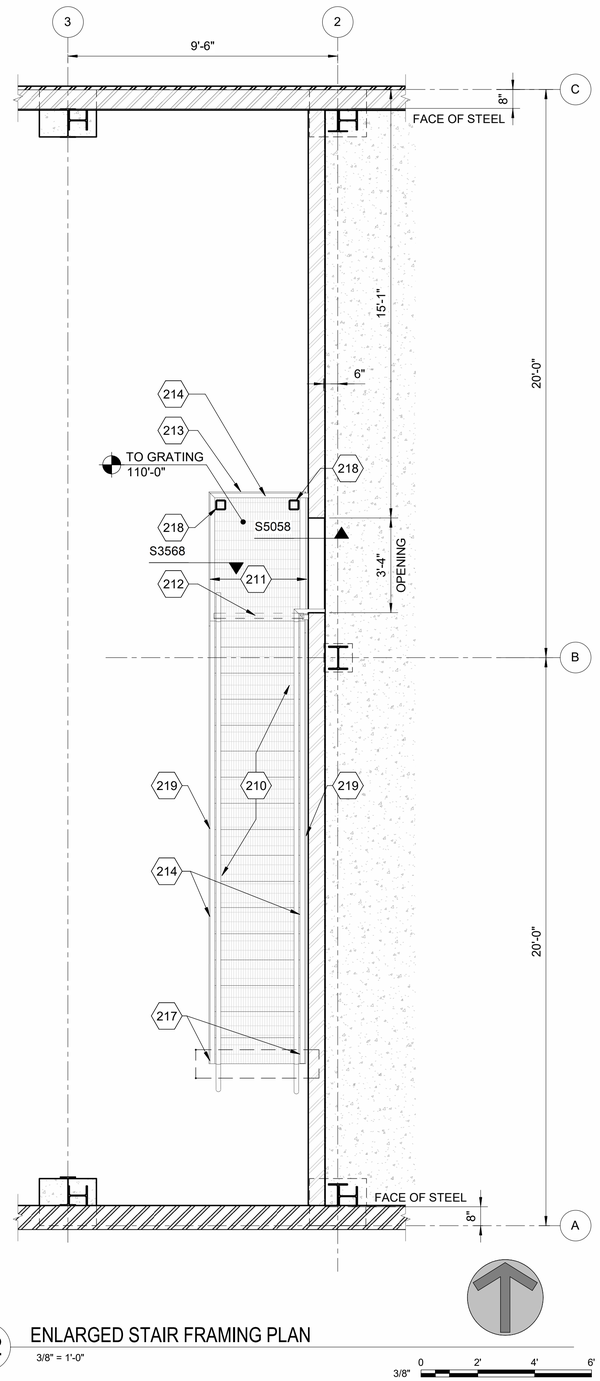


A1 ENLARGED STAIR DIMENSION PLAN

3/8" = 1'-0"

3/8" 0 2' 4' 6'



A2 ENLARGED STAIR FRAMING PLAN

3/8" = 1'-0"

3/8" 0 2' 4' 6'

FLOOR SHEET NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, EQUIPMENT VENDORS AND PRE-ENGINEERED METAL BUILDING MANUFACTURER DRAWINGS PRIOR TO CONSTRUCTION AND RESOLVE ANY DISCREPANCIES WITH EOR.

SHEET KEYNOTES

210 STEEL STAIR FRAMING AND RAILING; RE: A8151
211 STAIR LANDING GRATING SHALL BE 1-1/2" x 3/16", MINIMUM, STEEL BAR GRATING WITH 1" MAXIMUM CLEARANCE BETWEEN BARS AND 3/16" DIAMETER CROSS BARS AT 1 3/16" OC; RE: S3568
212 C8x11.5 STEEL STAIR LANDING BEAM . FOR LANDING BEAM CONNECTION TO STAIR STRINGER; RE: A8012
213 C12x20.7 STEEL STAIR PERIMETER BEAM, FOR ADDITIONAL INFORMATION RE: ARCH AND S3568.
214 STEEL HAND AND GUARDRAIL SYSTEM, RE: ARCH & A8155
217 STAIR STRINGER TO THICKENED SLAB; RE: A8001 & S8543
218 FOR BEAM TO COLUMN CONNECTION, RE: S3573
219 CONTINUOUS C12x20.7 STAIR STRINGER; RE: A8151

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - ENLARGED STAIR DIMENSION & FRAMING PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 65

SHEET NO. S-401-G

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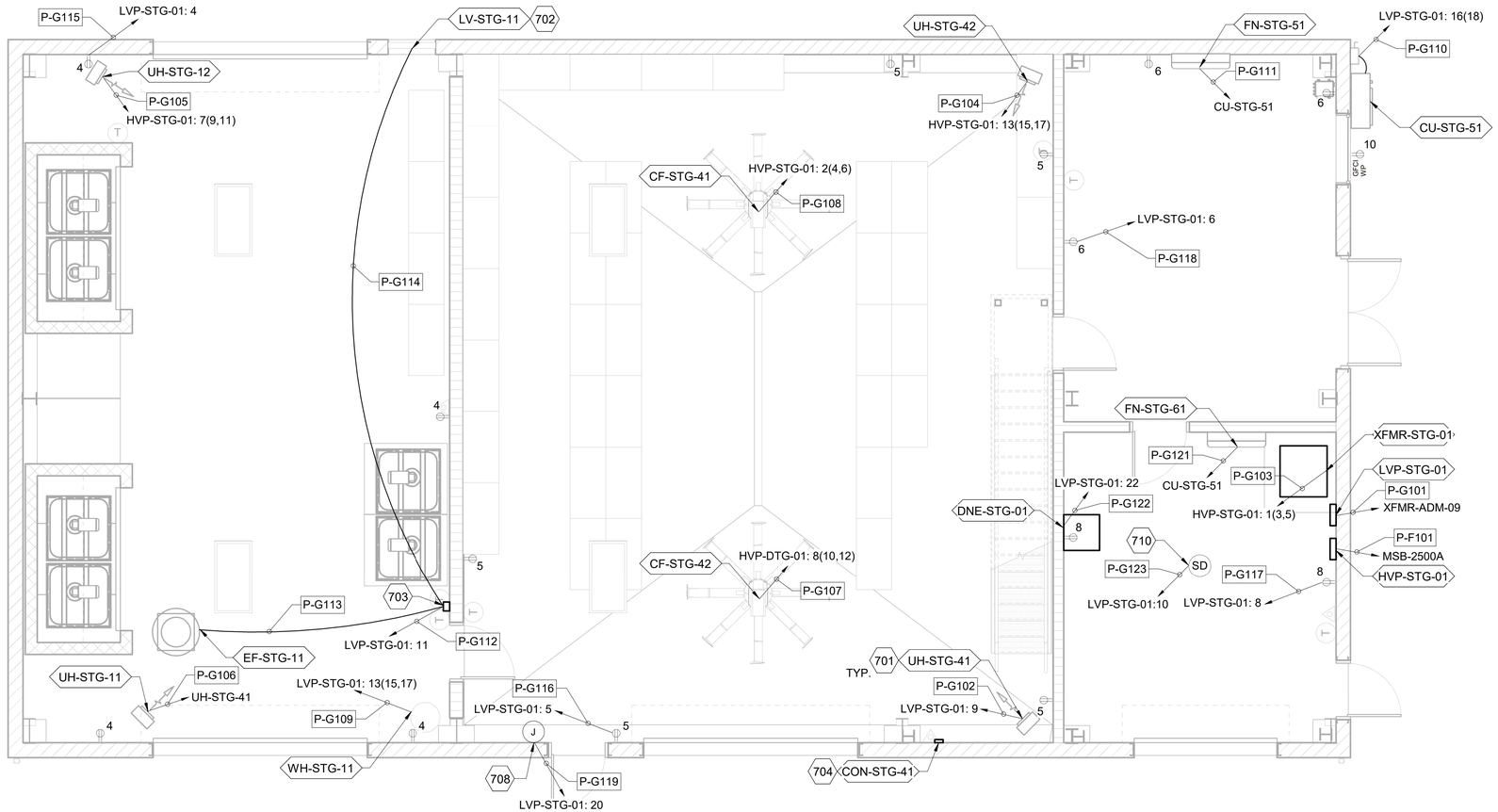

A1 POWER PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. SEE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTORS, RE: E-601
2. SEE SHEET E-001 FOR MORE DETAILED GENERAL ELECTRICAL NOTES.
3. EQUIPMENT DE-RATION SHALL BE BASED ON SITE ELEVATIONS OF 1005F A.S.L. CONTRACTOR AND EQUIPMENT SUPPLIERS TO ADHERE TO SITE CONDITIONS AND ACCOUNT FOR DE-RATION WITH THE FOLLOWING EQUIPMENT:
   A. VFD ELEVATION DE-RATION AMPERAGE
4. RE: E-604 FOR CABLE AND CONDUIT SCHEDULE.

SHEET KEYNOTES

701	EQUIPMENT TO BE LOOP-FED IN FIELD.
702	LOUVER AND EXHAUST FAN TO BE ROUTED THROUGH HOA SWITCH PER HVAC CONTROL STRATEGY; RE: MH-001 & E-501
703	LOCAL HOA SWITCH TO BE VARI-GREEN HOA OR ENGINEER APPROVED EQUAL.
704	FAN CONTROLLER TO BE BAFCON: C-CON-00-08-10-X1 AND TO INCLUDE MULTI-FAN WIRING KIT. CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR FINAL EQUIPMENT AND INSTALL.
708	PROVIDE POWER FEED TO ELECTRICAL DOOR STRIKE JUNCTION BOX. COORDINATE WITH OWNER FOR FINAL EQUIPMENT SELECTION. RE: E9005/E-501
710	INSTALL LOCAL SMOKE DETECTOR MOUNTED AT THE HIGHEST POINT IN THE ROOM.

EQUIPMENT KEYNOTES

CF-STG-41	CEILING FAN; RE: H2011, MH-601
CF-STG-42	CEILING FAN; RE: H2011, MH-601
CON-STG-41	CEILING FAN CONTROLLER
CU-STG-51	CONDENSING UNIT; RE: H5005, MH-601
DNE-STG-01	DATA NETWORK ENCLOSURE
EF-STG-11	EXHAUST FAN; RE: H2008, MH-601
FN-STG-51	FAN COIL; RE: H5005, MH-601
FN-STG-61	FAN COIL; RE: H5005, MH-601
HVP-STG-01	STORAGE BUILDING HIGH VOLTAGE PANEL
LV-STG-11	LOUVER; RE: H4008, MH-601
LVP-STG-01	STORAGE BLDG LOW VOLTAGE PANEL
UH-STG-11	HYDRONIC UNIT HEATER; RE: H9002, MH-601
UH-STG-12	ELECTRIC UNIT HEATER; RE: H1001, MH-601
UH-STG-41	HYDRONIC UNIT HEATER; RE: H9002, MH-601
UH-STG-42	ELECTRIC UNIT HEATER; RE: H1001, MH-601
WH-STG-11	ELECTRIC WATER HEATER; RE: P3016, MP-601
XFMR-STG-01	STORAGE BUILDING LOW VOLTAGE TRANSFORMER

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - POWER PLAN

DRAWN: ELK CHECK: TF

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

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SHEET NO. E-101-G

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OPERATIONS BUILDING LUMINAIRE SCHEDULE - STORAGE

FIXTURE ID	MANUFACTURER	CATALOG	DESCRIPTION	MOUNTING	MOUNTING HEIGHT	LAMP TYPE	VOLTS	WATTS	NOTES
A	LITHONIA	LSIX-4FT-4000LM-80CRI-40K-FFR-SWL-MIN10-MVOLT-MW-APIR	4' LED STRIP LIGHT	CEILING		LED	120	33.3	3,4
AE	LITHONIA	LSIX-4FT-4000LM-80CRI-40K-FFR-SWL-MIN10-MVOLT-E10WLCP-MW-APIR	4' LED STRIP LIGHT	CEILING		LED	120	33.3	1,3,4
BE	LITHONIA	WPX1 LED P2 40K MVOLT E4WH DBLXD	WPX1 LED WALL PACK WITH EMERGENCY BACKUP	WALL	+ 8' A.F.F	LED	120	24	1,2

NOTES:

1. PROVIDE BATTERY PACK.
2. PROVIDE AND INSTALL PHOTO CELL FIXTURE.
3. LIGHTING TO INCLUDE OCCUPANCY SENSOR

GENERAL SHEET NOTES

1. FIXTURES WITH E ARE EMERGENCY FIXTURES. PROVIDE UNSWITCHED CIRCUIT TO BATTERY PACK.

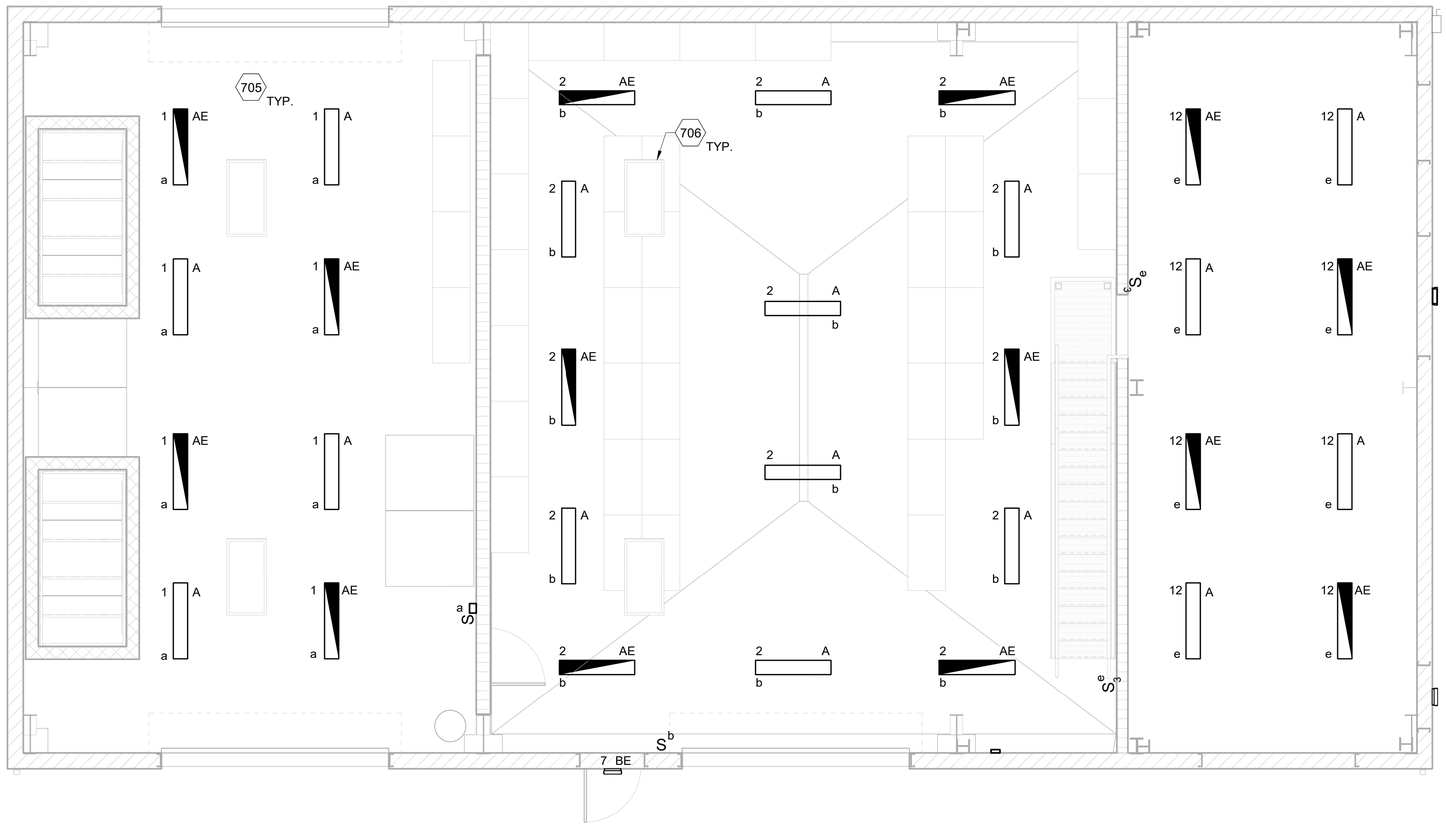
SHEET KEYNOTES

705 ALL LIGHTING TO BE FED FROM LVP-STG-01 CIRCUIT AS SHOWN WITH 3/4"-C AND (2)#12 CU, #12 CU GND

706 CONTRACTOR TO COORDINATE LIGHTING INSTALLATION WITH SOLAR TUBE INSTALL.

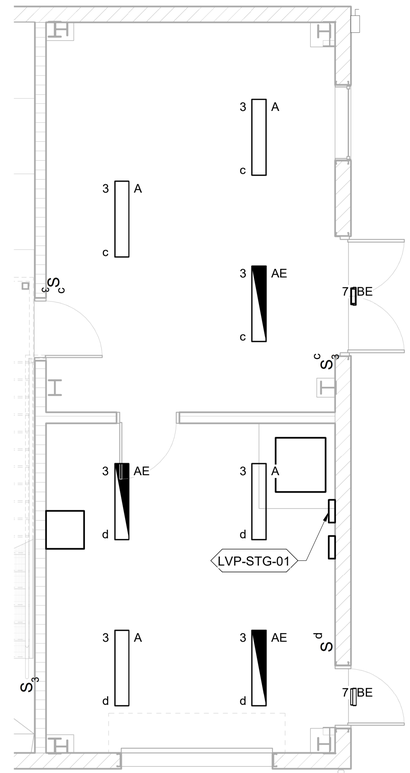
EQUIPMENT KEYNOTES

LVP-STG-01 STORAGE BLDG LOW VOLTAGE PANEL



A1 OVERALL LIGHTING PLAN

1/4" = 1'-0"



A2 STORAGE ROOM LIGHTING PLAN

1/4" = 1'-0"

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - LIGHTING PLAN

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

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SHEET NO. E-102-G

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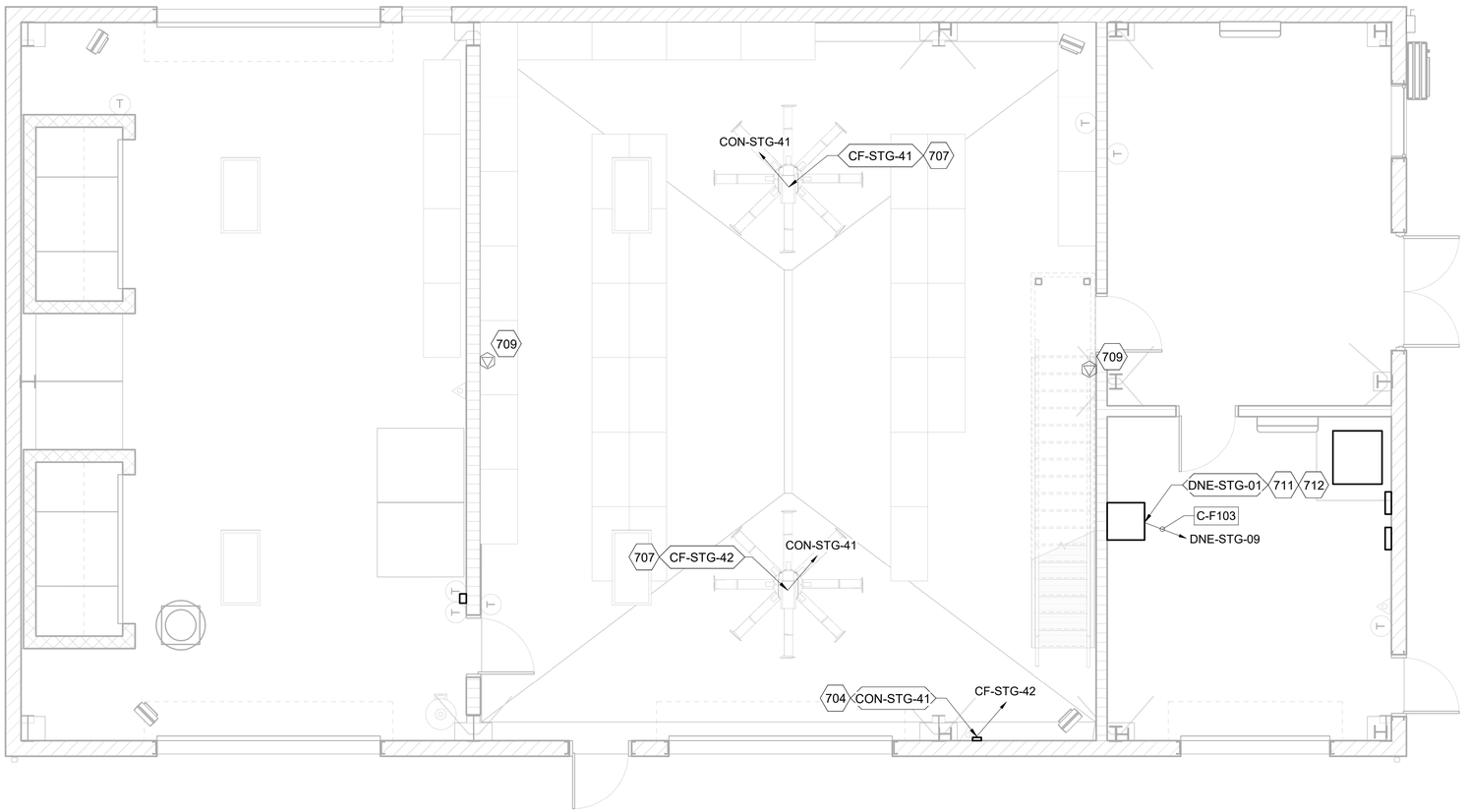

A1 NETWORK PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
2. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
3. CONCEAL ALL RACEWAYS WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
4. ROUTE CONDUIT IN COMMON TRENCH WHENEVER POSSIBLE.
5. COORDINATE WITH SCADA INTEGRATOR.
6. RE: EI-601 FOR CONDUIT SCHEDULE.

SHEET KEYNOTES

704 FAN CONTROLLER TO BE BAFCON: C-CON-00-08-10-X1 AND TO INCLUDE MULTI-FAN WIRING KIT. CONTRACTOR TO COORDINATE WITH MANUFACTURER FOR FINAL EQUIPMENT AND INSTALL.

707 PROVIDE (2) CAT6 CABLES TO CF-STG-4X. CABLES SHALL BE INSTALLED IN 1"-C TO CON-STG-41.

709 PROVIDE (1) CAT6 CABLE TO EACH WIRELESS ACCESS POINT FOR PoE CONNECTION. INSTALL CABLE IN 1"-C FROM ACCESS POINT TO ETHERNET SWITCHBOARD. COORDINATE WITH OWNER FOR FINAL PLACEMENT.

711 UTILIZE EXISTING CONDUIT FOR ROUTING NEW FIBER OPTIC CABLE BETWEEN BUILDINGS. PROVIDE AND INSTALL FIBER CABLING FROM NEW ADMIN BUILDING. VERIFY CONDUIT CONDITION AND CAPACITY PRIOR TO INSTALLATION.

712 PROVIDE DNE WITH FIBER PATCH PANEL AND ETHERNET SWITCH WITH FIBER PORT. TERMINATE INCOMING FIBER AT PATCH PANEL AND CONNECT TO SWITCH. INCLUDE WIRELESS ROUTER FOR CONNECTION TO STORAGE BUILDING WAPS. COORDINATE WITH OWNER ON HARDWARE SPECIFICATIONS.

EQUIPMENT KEYNOTES

CF-STG-41 CEILING FAN; RE: H2011, MH-601

CF-STG-42 CEILING FAN; RE: H2011, MH-601

CON-STG-41 CEILING FAN CONTROLLER

DNE-STG-01 DATA NETWORK ENCLOSURE

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MAY. 11, 2021
BRADLEY M. CULVER
EXPIRES: 12-31-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - NETWORK PLAN

DRAWN: ELK CHECK: TF

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 68

SHEET NO. EI-101-G

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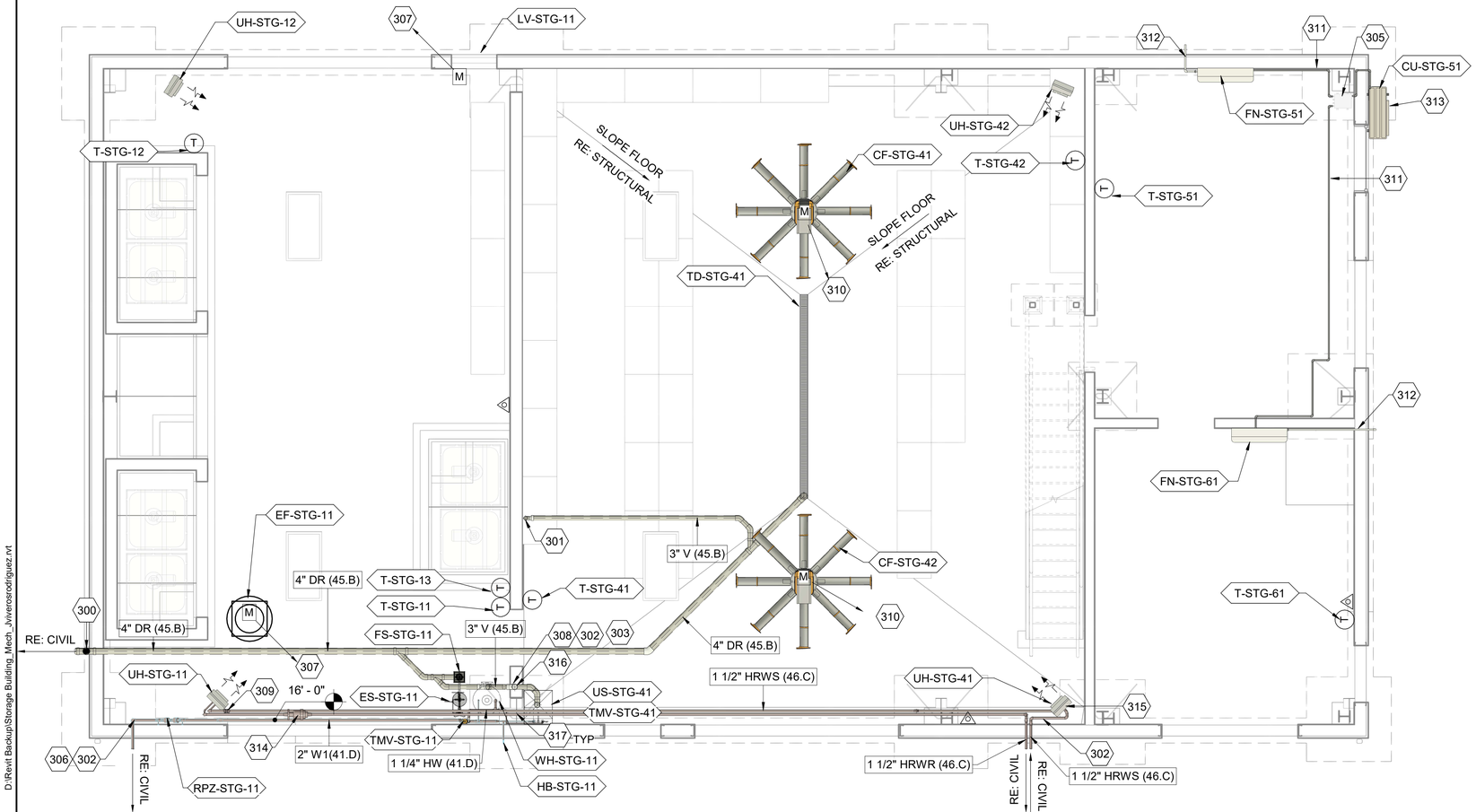

A1 HVAC AND PLUMBING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

EQUIPMENT MOUNTING HEIGHT

EQUIPMENT	MOUNTING ABOVE FINISH FLOOR
CF-STG-XX	156"
EF-STG-11	ROOF
FN-STG-XX	84"
LV-STG-11	40"
T-STG-XX	60"
UH-STG-XX	84"

GENERAL SHEET NOTES

1. REFERENCE MP-001 FOR GENERAL PLUMBING NOTES AND SYMBOLS.
2. REFERENCE MP-501 FOR PLUMBING DETAILS.
3. REFERENCE MP-601 FOR PLUMBING SCHEDULES.
4. REFERENCE MH-001 FOR HVAC CONTROL STRATEGY AND GENERAL HVAC NOTES/SYMBOLS.
5. REFERENCE MH-501 FOR HVAC DETAILS.
6. REFERENCE MH-601 FOR HVAC SCHEDULES.
7. NOT ALL PIPE SUPPORTS ARE SHOWN. SUPPORT PIPE AS NEEDED; RE: P9001
8. ROUTE HYDRONIC LINE ALONG SLOPE OF ROOF UNLESS NOTED OTHERWISE.
9. ALIGN ROOF PENETRATIONS WHEREVER POSSIBLE TO MAXIMIZE SOLAR PANEL LAYOUT (BY OWNER).

SHEET KEYNOTES

300	BUILDING CLEANOUT; RE: P7002
301	FIELD ROUTE ABOVE GRADE TO FLOOR SINK VENT
302	WATER-TIGHT PENETRATION; RE: P6002
303	WALL CLEANOUT; RE: P1009
305	BRANCH BOX COMPATIBLE WITH MINI SPLIT UNIT
306	MATERIAL TRANSITION 6" AFF
307	SIGNAL TO FAN-LOUVER CONTROL; RE: A1/E-501, HVAC SEQUENCE OF OPERATIONS.
308	COMBINE VENTS ABOVE GRADE INTO 3" AND VENT THROUGH ROOF; RE: P6005
309	ISOLATION VALVE; RE: SPECS
310	SIGNAL TO FAN CONTROL; RE: E-101-G
311	REFRIGERANT LINE; RE: H5001, H5003, H5005, H5007
312	CONDENSATE DRAIN, ROUTE DOWN 6" AFF TO AN APPROVED LOCATION; RE: P6002, P9001
313	MOUNT HVAC UNIT TO WALL 24" ABOVE FINISH GRADE USING HEF-T BRACKET OR EQUAL. PROVIDE ANCHOR BOLTS AS NEEDED.
314	AIR RELEASE VALVE AT HIGH POINT IN PIPING
315	BOILER DRAIN
316	FOAM WRAP AND PROTECT PIPE AT FOOTING PENETRATION
317	FIRE COLLAR PENETRATION

EQUIPMENT KEYNOTES

CF-STG-41	CEILING FAN; RE: H2011, MH-601
CF-STG-42	CEILING FAN; RE: H2011, MH-601
CU-STG-51	CONDENSING UNIT; RE: H5005, MH-601
EF-STG-11	EXHAUST FAN; RE: H2008, MH-601
ES-STG-11	EMERGENCY SHOWER; RE: P3002, MP-601
FN-STG-51	FAN COIL; RE: H5005, MH-601
FN-STG-61	FAN COIL; RE: H5005, MH-601
FS-STG-11	FLOOR SINK; RE: P1003, P2001, MP-601
HB-STG-11	HOSE BIBB; RE: P3007, MP-601
LV-STG-11	LOUVER; RE: H4008, MH-601
RPZ-STG-11	RPZ BACKFLOW PREVENTER. ROUTE DRAIN TO WEST SIDE OF BUILDING; RE: P5001, MP-601
T-STG-11	THERMOSTAT; RE: MH-601
T-STG-12	THERMOSTAT; RE: MH-601
T-STG-13	THERMOSTAT; RE: MH-601
T-STG-41	THERMOSTAT; RE: MH-601
T-STG-42	THERMOSTAT; RE: MH-601
T-STG-51	THERMOSTAT; RE: MH-601
T-STG-61	THERMOSTAT; RE: MH-601
TD-STG-41	6" TRENCH DRAIN; RE: P1006, P1007, P2001, MP-601
TMV-STG-11	THERMOSTATIC MIXING VALVE; RE: MP-601
TMV-STG-41	THERMOSTATIC MIXING VALVE; RE: MP-601
UH-STG-11	HYDRONIC UNIT HEATER; RE: H9002, MH-601
UH-STG-12	ELECTRIC UNIT HEATER; RE: H1001, MH-601
UH-STG-41	HYDRONIC UNIT HEATER; RE: H9002, MH-601
UH-STG-42	ELECTRIC UNIT HEATER; RE: H1001, MH-601
US-STG-41	UTILITY SINK; RE: MP-601
WH-STG-11	ELECTRIC WATER HEATER; RE: P3016, MP-601

KELLER ASSOCIATES
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(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
101193PE
Digitally Signed 2026.04.01
OREGON
SEP. 13, 2022
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STORAGE BUILDING - HVAC AND PLUMBING PLAN

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 69

SHEET NO. MP-101-G

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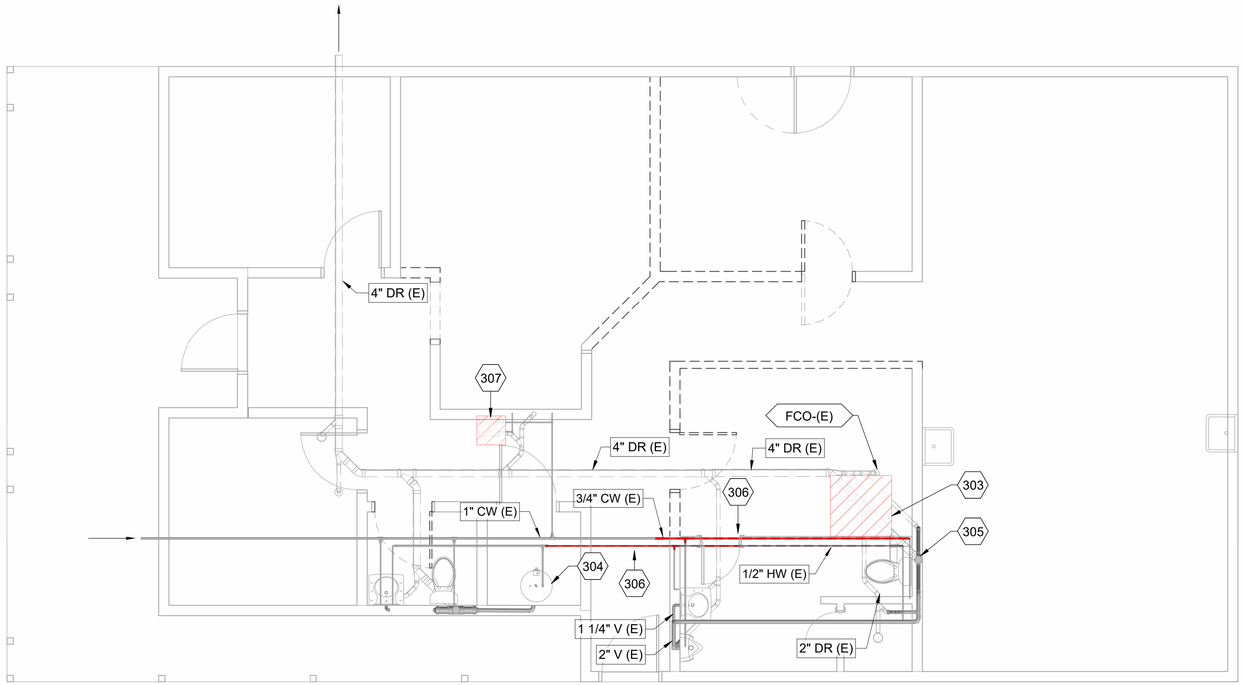

A1 PLUMBING DEMO PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. REFERENCE MP-001 FOR GENERAL PLUMBING NOTES & SYMBOLS.
2. REFERENCE MP-101-H FOR PLUMBING PLAN.
3. REFERENCE MP-501 FOR PLUMBING DETAILS.
4. REFERENCE MP-601 FOR PLUMBING SCHEDULES
5. FILL ALL ABANDONED PENETRATIONS AND ANCHOR HOLES PER STRUCTURAL AND ARCHITECTURAL REQUIREMENTS.
6. RETAIN AND PROTECT ALL PLUMBING EQUIPMENT AND PIPING UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

303	SAW CUT FLOOR FOR NEW DRAIN LINE
304	RETAIN AND PROTECT EXISTING WATER HEATER
305	RETAIN AND PROTECT EXISTING 4" VENT THROUGH ROOF
306	REMOVE EXISTING WATER LINE AND HAUL AWAY
307	REMOVE EXISTING DRINKING FOUNTAIN AND HAUL AWAY. CAP DRAIN AND WATER LINES IN THE WALL. PATCH AFFECTED SHEET ROCK, TEXTURE, AND PAINT TO MATCH EXISTING

EQUIPMENT KEYNOTES

FCO-(E)	EXISTING FLOOR CLEANOUT: RETAIN AND PROTECT

LEGEND

- SAW CUT
- EXISTING
- DEMO

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OREGON
SEP. 13, 2022
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ADMINISTRATION BUILDING - EXISTING PLUMBING DEMO PLAN

DRAWN: DAC | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 70

SHEET NO. D-100-H

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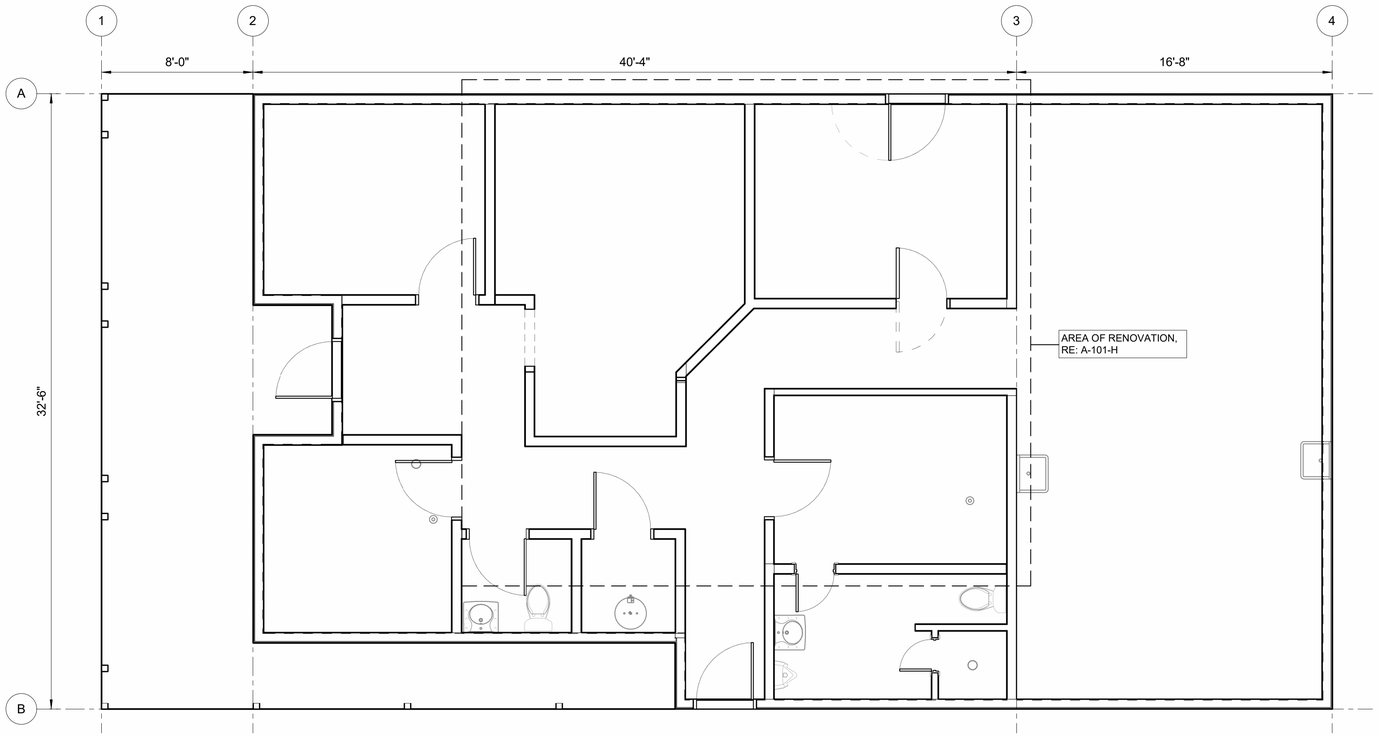
GENERAL SHEET NOTES

1. SEE TYPICAL DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS, PRIOR TO CONSTRUCTION, RESOLVE ANY DISCREPANCIES WITH E.O.R.
3. CONTRACTOR TO VERIFY LOCATION OF ALL INSERTS IN SLAB WITH APPROVED MECHANICAL, PLUMBING, & ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION.
4. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SHORING AS NEEDED DURING CONSTRUCTION AND INSTALLATION OF NEW STRUCTURAL SUPPORTING MEMBERS.
5. WORK PERFORMED IN THE EXISTING ADMINISTRATION BUILDING FALLS UNDER ABI #3, RE: SECTION 01 22 00 - MEASUREMENT & PAYMENT



A1 EXISTING FLOOR AND WALL PLAN
1/4" = 1'-0"

1/4" 0 2' 4' 8'

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL
REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed: 2026.05.01 22:30:22 -08'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

EXISTING ADMINISTRATION BUILDING - EXISTING FLOOR AND WALL PLAN

DRAWN: LDL CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001
PAGE 71
SHEET NO. A-100-H

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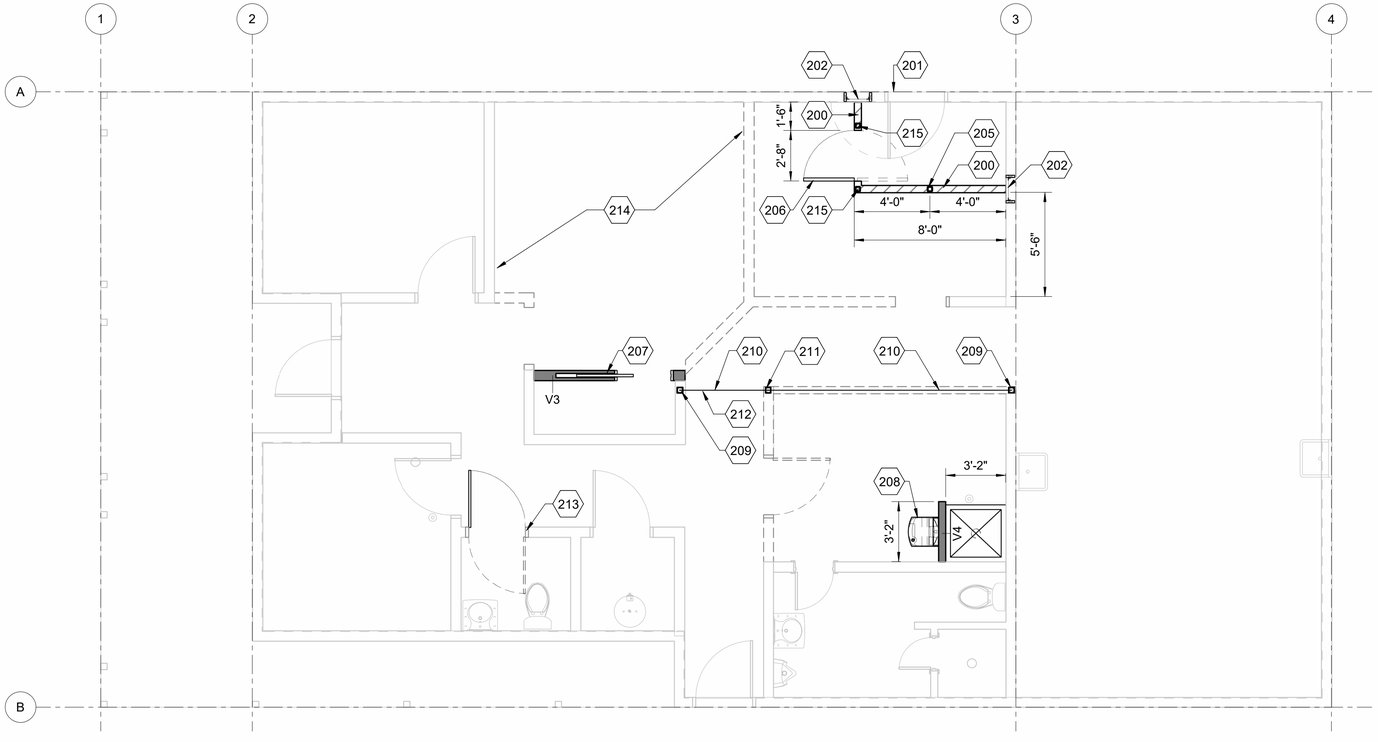

A1 NEW FLOOR AND WALL PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. SEE DETAILS & GENERAL NOTES FOR ADDITIONAL INFORMATION
2. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. RESOLVE ANY DISCREPANCIES WITH THE ENGINEER
3. PATCH AND REPAIR FLOOR FINISH WITH LIKE MATERIAL. REPLACE AS NEEDED VERIFY EXTENT OF REPLACEMENT WITH OWNER PRIOR TO BID
4. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SHORING AS NEEDED DURING CONSTRUCTION AND INSTALLATION OF NEW STRUCTURAL SUPPORTING MEMBERS
5. WORK PERFORMED IN THE EXISTING ADMINISTRATION BUILDING FALLS UNDER ABI #3, RE: SECTION 01 22 00 - MEASUREMENT & PAYMENT

SHEET KEYNOTES

200 NEW HALF STUD WALL, WALL TO CONSIST OF (2) 3x4 TOP PLATE, 3x4 SILL PLATE, w/ 2x4 STUDS @ 16" OC.

201 CONTRACTOR TO PROVIDE SNOW CLEATS AT (E) DOOR, OWNER TO VERIFY FINAL DOOR COVERAGE. RE: SPECIFICATIONS

202 2X6 DF #2 WOOD BEAM LAYED FLAT W/ A35 CLIP INTO EXISTING STUD AT EACH SIDE

205 STEEL HSS 3X3X1/4 CENTER COLUMN CONDITION, RE: S4002

206 CONTRACTOR TO PROVIDE ADA COMPLIANT TRIM (LEVER HANDLE), TWO HINGES, AND DOOR STOP TO MATCH NEW CONSTRUCTION (RE: SPECS). OWNER APPROVED, ADA COMPLIANT HARDWARE MAY BE SUBSTITUTED (SUCH AS SELF CLOSING HINGES WITH NO LATCH)

207 NEW POCKET STYLE DOOR WITH ALL REQUIRED HARDWARE. MINIMUM DOOR OPENING TO BE 32".

208 NEW HI-LO ADA COMPLIANT DRINKING FOUNTAIN WITH BOTTLE FILLER; RE: SPECIFICATIONS

209 NEW 4X4 DF #2 WOOD POST W/ SIMPSON ECCQ CONNECTOR RATED FOR 7,655# FOR BEAM TO END COLUMN CONNECTION; AND SIMPSON ABUZ CONNECTOR RATED FOR 7,570# FOR COLUMN TO EXISTING FOUNDATION CONNECTION

210 NEW 3.5 X 13.2 24F-V4 GLB BEAM BELOW CEILING

211 NEW 4X4 DF #2 WOOD POST W/ SIMPSON CCQ CONNECTOR RATED FOR 19,020# FOR BEAM TO COLUMN CONNECTION; AND SIMPSON ABUZ CONNECTOR RATED FOR 7,570# FOR COLUMN TO EXISTING FOUNDATION CONNECTION

212 EXISTING HEADER AT HALLWAY, AND SUPPORTING TRIMMER STUDS, TO BE REMOVED

213 CONTRACTOR TO REMOVE AND REPLACE DOOR FRAME. CHANGE SWING OUT INTO THE HALL

214 REMOVE AND PRESERVE EXISTING WALL CABINETS FOR REINSTALLATION IN NEW ADMINISTRATION BUILDING

215 STEEL HSS3X3X1/4 END COLUMN CONDITION, RE: S4001

DETAILS ARE REFERENCED BY NUMBER ONLY AND ARE FOUND IN APPLICABLE 500 SERIES SHEETS FOR THAT DISCIPLINE

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- NEW FULL HEIGHT 2x4 STUD WALL; RE: A501
- V# NEW HALF HEIGHT STUD WALL, HEIGHT = 3'-6"

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.05.01 12:58:00 -08'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

EXISTING ADMINISTRATION BUILDING - NEW FLOOR AND WALL PLAN

DRAWN: LDL | CHECK: DMT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 72

SHEET NO. A-101-H

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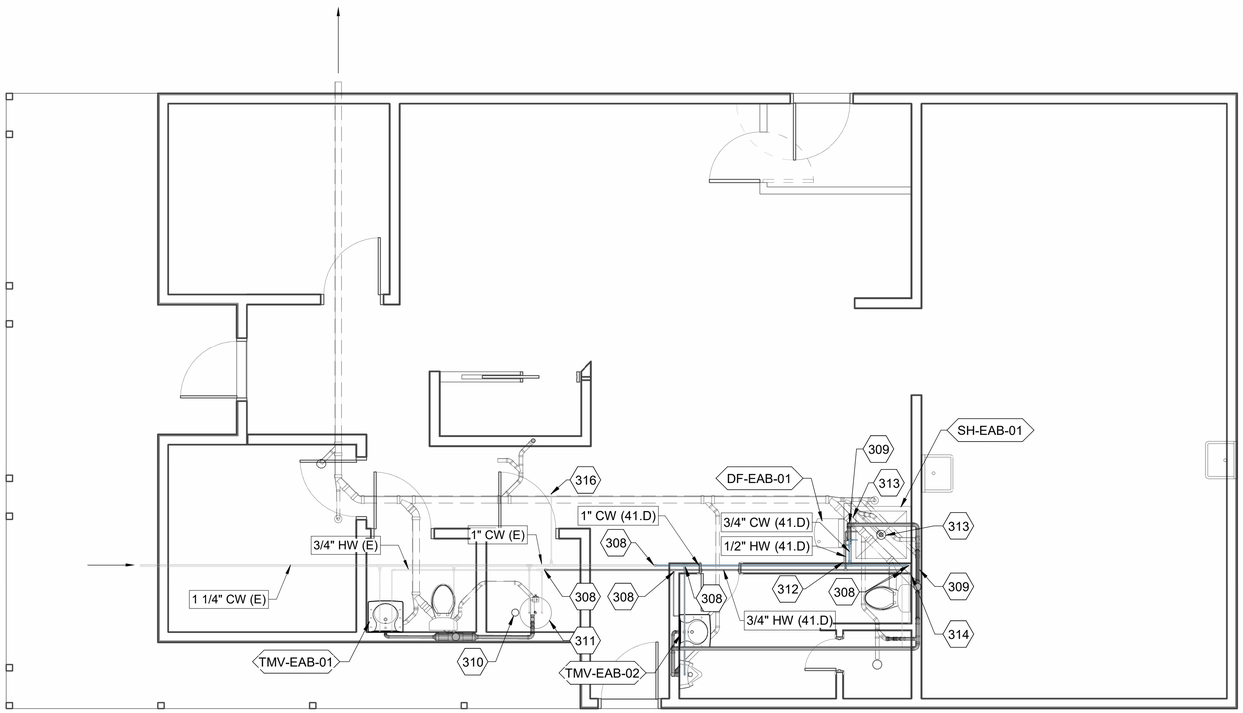

A1 PLUMBING PLAN

1/4" = 1'-0"

1/4" 0 2' 4' 8'

GENERAL SHEET NOTES

1. REFERENCE MP-001 FOR GENERAL PLUMBING NOTES & SYMBOLS.
2. REFERENCE DMP-100-H FOR PLUMBING DEMO PLAN.
3. REFERENCE MP-501 FOR PLUMBING DETAILS.
4. REFERENCE MP-601 FOR PLUMBING SCHEDULES.
5. ROUTE ALL WATER LINES IN ATTIC; RE: P9002

SHEET KEYNOTES

308	CONNECT TO EXISTING WATER LINE. PROVIDE MATERIAL AND SIZE TRANSITION FITTINGS AS REQUIRED
309	CONNECT TO 4" VENT ABOVE GRADE
310	PROVIDE AND INSTALL NEW EXPANSION TANK; RE: SPECS
311	INCREASE HOT WATER TEMPERATURE TO 140 DEGREES FAHRENHEIT
312	SAW CUT PATCHING; RE: STRUCTURAL
313	CONNECT TO EXISTING DRAIN LINE. PROVIDE TRANSITION FITTINGS AS REQUIRED
314	PATCH EXISTING WALL; RE: STRUCTURAL
316	TO EXISTING DRINKING FOUNTAIN TO BE CAPPED; RE: D-100-H

EQUIPMENT KEYNOTES

DF-EAB-01	DRINKING FOUNTAIN; RE: P2004, MP-601
SH-EAB-01	SHOWER; RE: P2001, MP-601
TMV-EAB-01	POINT OF USE MIXING VALVE UNDER EXISTING LAV SINK. PROVIDE FLEX CONNECTORS, TIE INTO HOT AND COLD WATER SUPPLY LINES AND PROVIDE NEW 3/8" FLEX HOSES AND ADAPTERS AS NEEDED; RE: MP-601
TMV-EAB-02	POINT OF USE MIXING VALVE UNDER EXISTING LAV SINK. PROVIDE FLEX CONNECTORS, TIE INTO HOT AND COLD WATER SUPPLY LINES AND PROVIDE NEW 3/8" FLEX HOSES AND ADAPTERS AS NEEDED; RE: MP-601

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REGISTERED PROFESSIONAL ENGINEER
101193PE
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OREGON
SEP. 13, 2022
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ADMINISTRATION BUILDING - EXISTING PLUMBING PLAN

DRAWN: DAC CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 73

SHEET NO. MP-101-H

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SHEET KEYNOTES

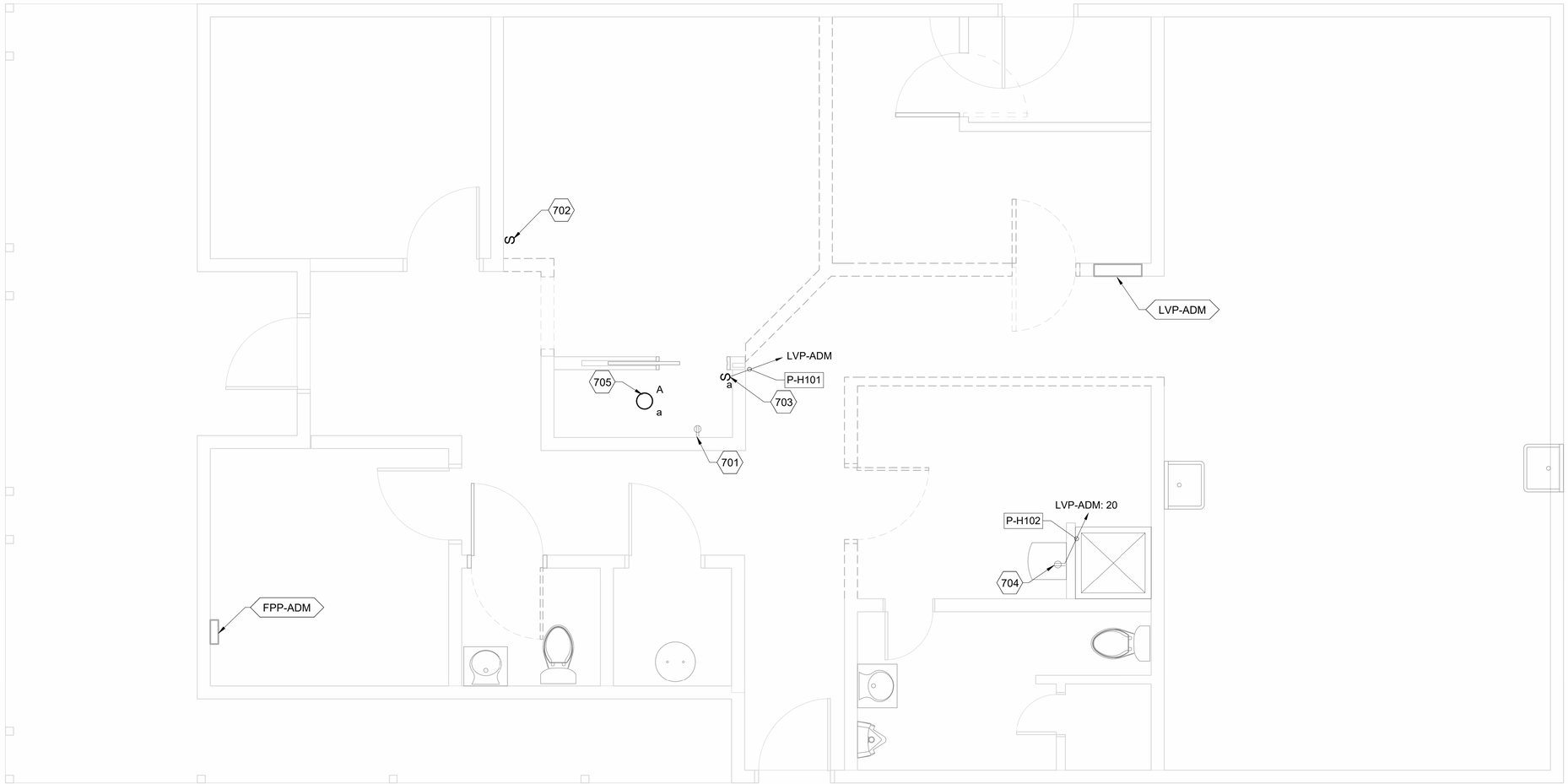
701	INTERCEPT EXISTING CIRCUIT TO RECEPTACLE AND EXTEND TO NEW LOCATION. COORDINATE WITH OWNER FOR FINAL MOUNTING HEIGHT. CONTRACTOR TO UPDATE ASBUILTS TO REFLECT FINAL CIRCUIT AND ROUTING.
702	RELOCATE EXISTING LIGHT SWITCH IN ROOM. MAINTAIN CONTINUITY OF ALL EQUIPMENT UPSTREAM AND DOWNSTREAM.
703	INSTALL NEW LIGHT AND ROUTE THROUGH NEW WALL SWITCH. CONNECT TO NEAREST UNSWITCHED LIGHTING CIRCUIT.
704	INSTALL NEW RECEPTACLE FOR FOUNTAIN.
705	INSTALL NEW PORCELAIN LAMP HOLDER WITH COMPACT LED BULB.

GENERAL SHEET NOTES

1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY OTHER STATE OR LOCAL CODE.
2. CABLE AND CONDUIT RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWING. FINAL ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE OWNER.
3. ALL OUTDOOR EQUIPMENT AND WIRING SHALL BE WEATHERPROOF.
4. ALL UNDERGROUND CABLE RUNS SHALL BE INSTALLED IN CONDUIT.
5. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
6. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
7. RE: E-604 FOR CONDUIT AND CABLE SCHEDULE.
8. RE: E-603 FOR PANEL SCHEDULE

EQUIPMENT KEYNOTES

FPP-ADM	FIBER PATCH PANEL (E)
LVP-ADM	ADMIN LOW VOLTAGE PANEL (E)



A1 POWER PLAN

3/8" = 1'-0"

3/8" 0 2' 4' 6'

KELLER ASSOCIATES
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Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
87153PE
Digitally Signed 2026.05.01 12:24:38-08'00'
OREGON
NOV. 15, 2012
ADAM L. NEWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

EXISTING ADMINISTRATION BUILDING - POWER PLAN

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

PAGE 74

SHEET NO. E-101-H

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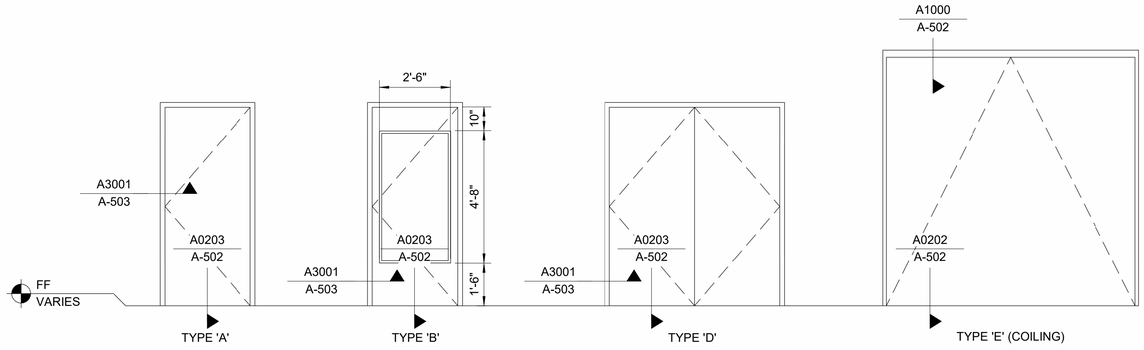
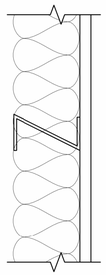


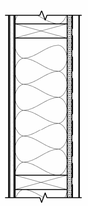
NOTES:
1. DOOR SIZE AND TYPE SHALL BE IN ACCORDANCE WITH DOOR AND HARDWARE SCHEDULE.
2. GLASS AT DOORS SHALL BE TEMPERED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. GLASS AT INTERIOR DOORS SHALL BE CLEAR GLASS AT EXTERIOR DOORS SHALL BE TINTED.
4. PROVIDE WIRE GLASS AT LABELED DOORS.
5. PROVIDE LABELED DOORS IN ACCORDANCE WITH DOOR AND HARDWARE SCHEDULE.

A0200 DOOR TYPES
NTS



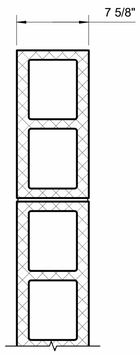
NOTES:
METAL BUILDING MANUFACTURER TO PROVIDE STRUCTURAL FRAMING, BUILDING INSULATION INTERIOR METAL LINER PANEL AND EXTERIOR METAL SIDING - RE: SPECIFICATIONS

A0101 WALL TYPE 'V1'
NTS



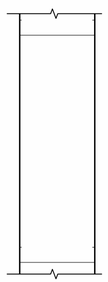
NOTES:
1. FINISH AND PAINT
2. 5/8" GYPSUM BOARD TYPE "X" (WATER RESISTANT ON RESTROOM SIDE)
3. 5-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
4. R-21 KRAFT FACED, SOUND BATT INSULATION
5. AIR-PERMEABLE MEMBRANE ON EXTERIOR WALL SHEATHING
6. CEMENTITIOUS SIDING

A0106 WALL TYPE 'V6'
NTS



NOTES:
1. FIRE RATED ASSEMBLY- ALL PENETRATIONS TO BE PROTECTED TO MATCH THE RATING OF THE ASSEMBLY.
2. SEE STRUCTURAL PLANS FOR REINFORCEMENT.

A0102 WALL TYPE 'V2'
NTS



NOTES:
1. FINISH AND PAINT
2. 5/8" GYPSUM BOARD TYPE "X"
3. 3-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
4. 5-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
5. R-21 KRAFT FACED, SOUND BATT INSULATION
6. AIR-PERMEABLE MEMBRANE ON EXTERIOR WALL SHEATHING
7. CEMENTITIOUS SIDING
8. FOR BASE OF WALL/ RAISED FOUNDATION WALL FURRING RE: A4250

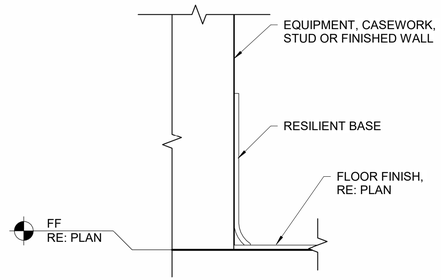
A0107 WALL TYPE 'V7'
NTS

NOTES:
1. 8" COLD FORMED STEEL STUDS @ 16" O.C., RE: STRUCTURAL
2. METAL LINER PANEL EACH SIDE OF WALL PROVIDED BY PRE ENGINEERED METAL BUILDING MANUFACTURER

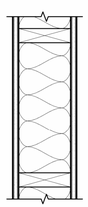
A0103 WALL TYPE 'V3'
NTS

NOTES:
1. 6" COLD FORMED STEEL STUDS @ 16" O.C., RE: STRUCTURAL
2. METAL LINER PANEL PROVIDED BY PRE ENGINEERED METAL BUILDING MANUFACTURER

A0104 WALL TYPE 'V4'
NTS

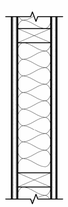


A0150 RUBBER BASE
NTS



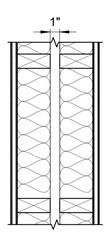
NOTES:
1. FINISH AND PAINT EA. SIDE
2. 5/8" GYPSUM BOARD TYPE "X" WATER RESISTANT ON RESTROOM SIDES
3. 3-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
4. R-11 KRAFT FACED, SOUND BATT INSULATION

A0108 WALL TYPE 'V8'
NTS



NOTES:
1. FINISH AND PAINT EA. SIDE
2. 5/8" GYPSUM BOARD TYPE "X" WATER RESISTANT ON RESTROOM SIDES
3. 5-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
4. R-11 KRAFT FACED, SOUND BATT INSULATION

A0109 WALL TYPE 'V9'
NTS



NOTES:
1. FINISH AND PAINT
2. 5/8" GYPSUM BOARD TYPE "X"
3. 3-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
4. 5-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
5. R-21 KRAFT FACED, SOUND BATT INSULATION
6. AIR-PERMEABLE MEMBRANE ON EXTERIOR WALL SHEATHING
7. CEMENTITIOUS SIDING
8. FOR BASE OF WALL/ RAISED FOUNDATION WALL FURRING RE: A4250

A0105 WALL TYPE 'V5'
NTS

NOTES:
1. FINISH AND PAINT EA. SIDE
2. 5/8" GYPSUM BOARD TYPE "X" WATER RESISTANT ON RESTROOM SIDES
3. 3-1/2" WOOD STUDS @ 16" OC; RE: STRUCTURAL
4. R-11 KRAFT FACED, SOUND BATT INSULATION
5. AT CHASE LOCATIONS GYPSUM BOARD ON CHASE SIDE OF WALLS MAY BE OMITTED

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.05.01
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ARCHITECTURAL DETAILS

DRAWN: BPB | CHECK: DT

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

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SHEET NO. A-501

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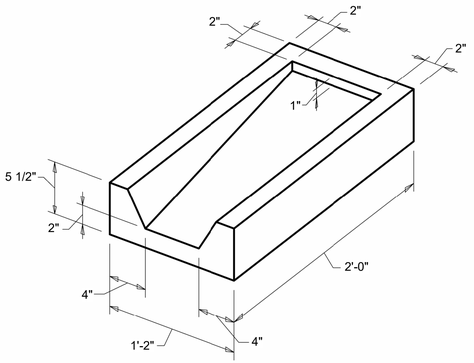
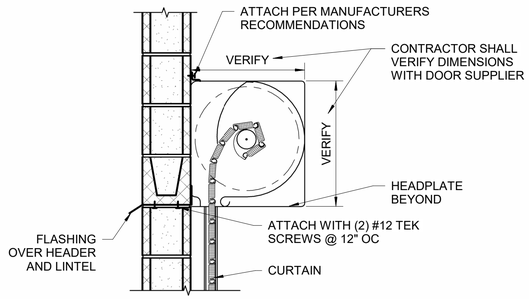


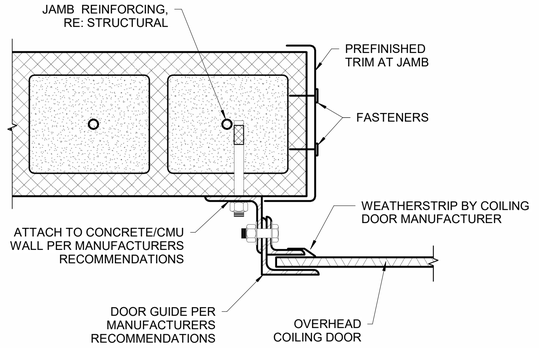
A0333 CONCRETE SPLASH BLOCK

NTS



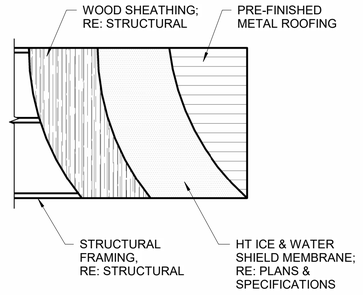
A1000 OVERHEAD COILING DOOR (CMU)

NTS



A1001 OVERHEAD COILING DOOR JAMB (CMU)

NTS

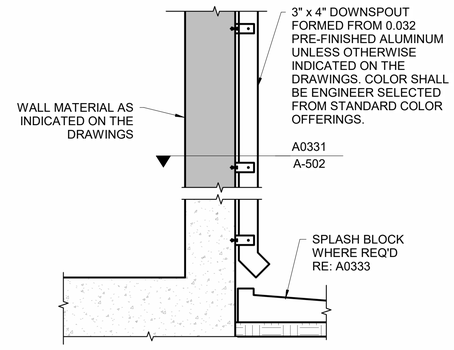


A0303 ROOF ASSEMBLY

NTS

A0305 VENTED RIDGE CAP & BLOCKING

NTS

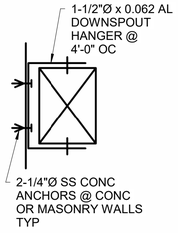


NOTES:

1. PROVIDE SPLASH BLOCK AS SHOWN EXCEPT AT PAVING SIDEWALKS.
2. ALTERNATE SIZE DOWNSPOUTS WILL BE REQUIRED, AS SO INDICATED ON THE DRAWINGS.
3. COAT ALUMINUM IN CONTACT WITH CONCRETE AND CMU AS SPECIFIED.

A0329 DOWNSPOUT

NTS



A0331 DOWNSPOUT SECTION

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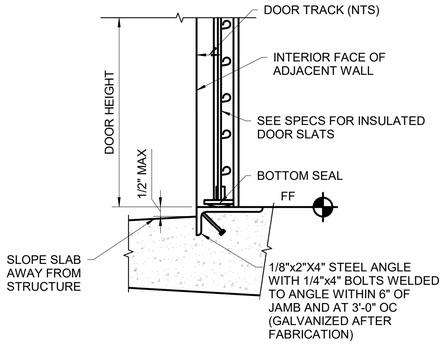
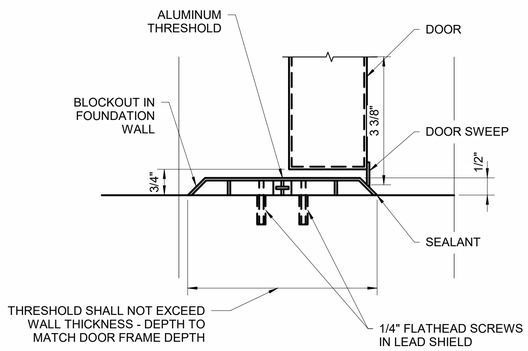


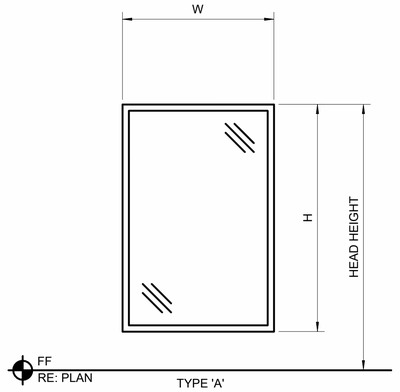
A0202 OVERHEAD COILING DOOR THRESHOLD

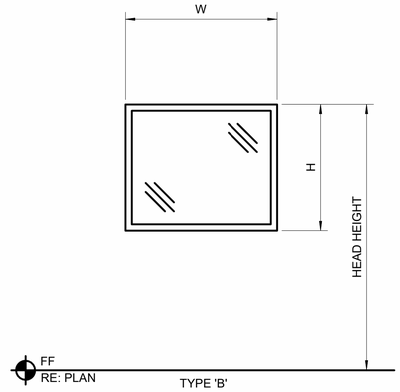
NTS



A0203 DOOR THRESHOLD TYPE 'B'

NTS





A0250 WINDOW TYPES

NTS

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EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ARCHITECTURAL DETAILS

DRAWN: BPB CHECK: DT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

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SHEET NO. A-502

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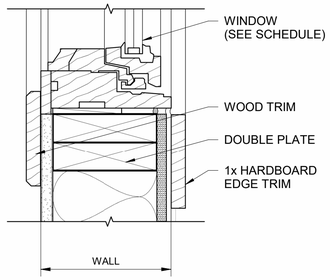
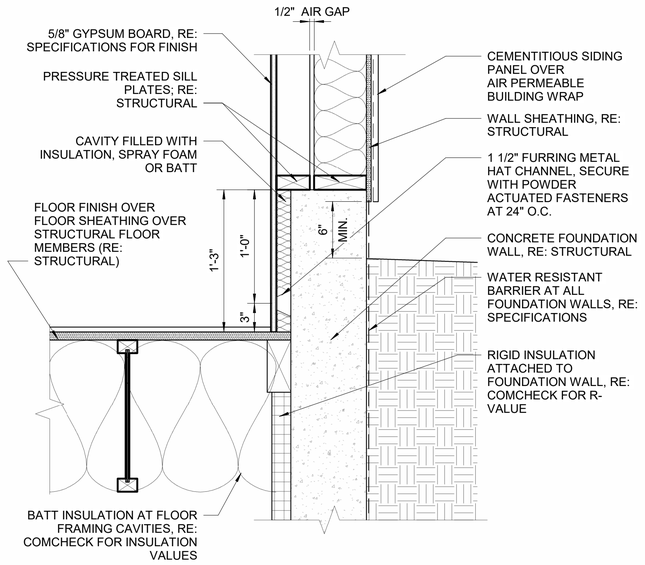


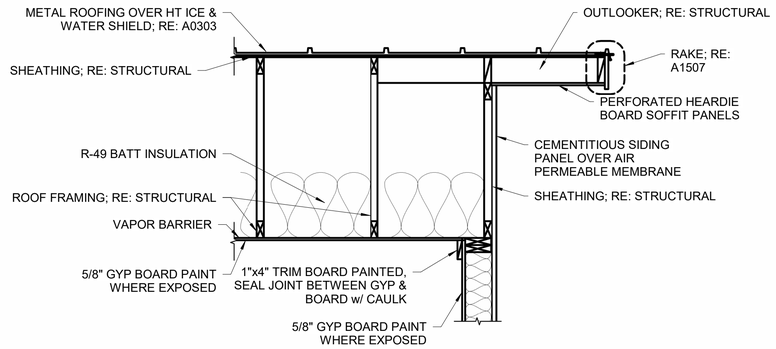
A4127 FIXED WINDOW (JAMB & HEAD)

NTS



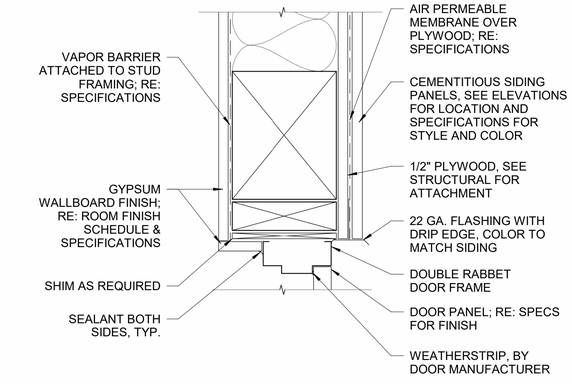
1 A4250 - FURRING WALL AT RAISED FOUNDATION WALL

NTS



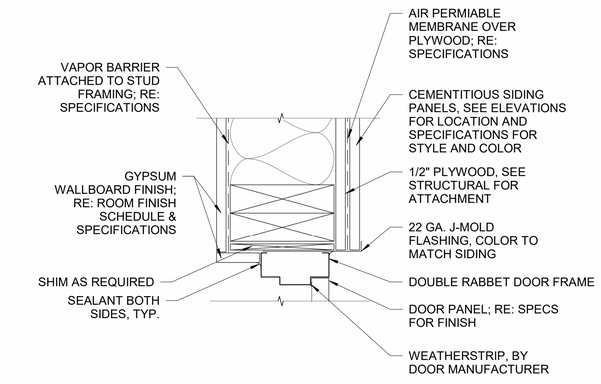
A4501 ROOF OVERHANG

NTS



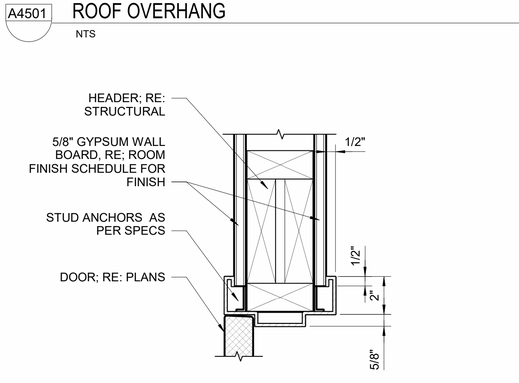
A4004 EXTERIOR HOLLOW METAL DOOR HEAD

NTS



A4005 EXTERIOR HOLLOW METAL DOOR JAMB

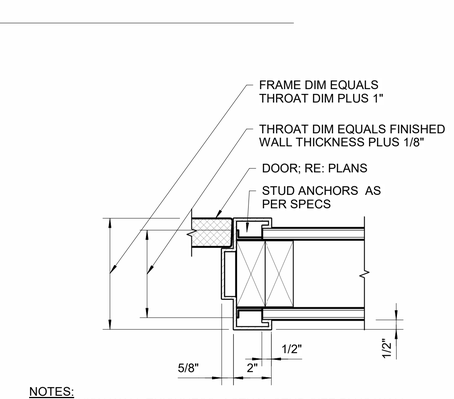
NTS



NOTES:
1. FINISH WALL THICKNESS: ACTUAL STUD SIZE PLUS WALL MATERIAL THICKNESS. VERIFY TOTAL THICKNESS FROM FLOOR PLANS AND FINISH SCHEDULES.

A4006 HOLLOW METAL DOOR FRAME @ HEAD - INTERIOR

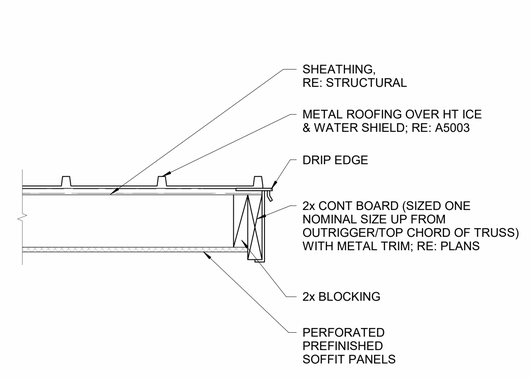
NTS



NOTES:
1. FINISH WALL THICKNESS: ACTUAL STUD SIZE PLUS WALL MATERIAL THICKNESS. VERIFY TOTAL THICKNESS FROM FLOOR PLANS AND FINISH SCHEDULES.

A4007 HOLLOW METAL DOOR FRAME @ JAMB - INTERIOR

NTS



A1507 RAKE

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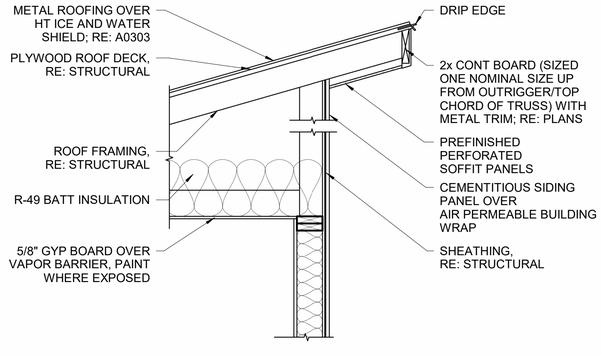
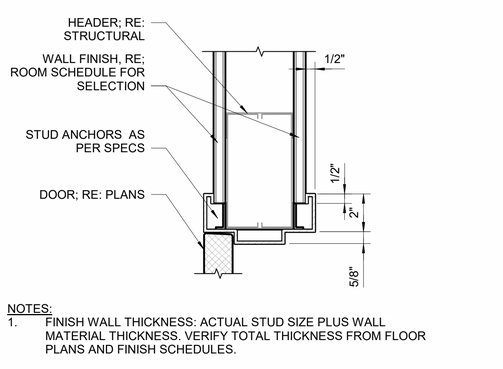


A1510 ROOF EDGE

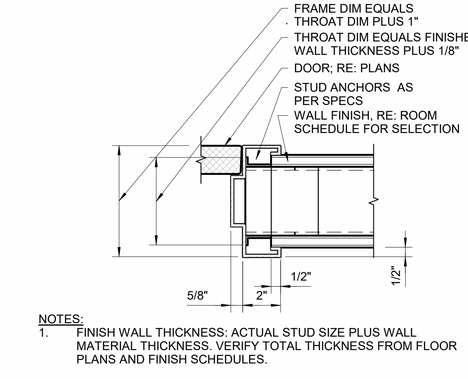
NTS



NOTES:
1. FINISH WALL THICKNESS: ACTUAL STUD SIZE PLUS WALL MATERIAL THICKNESS. VERIFY TOTAL THICKNESS FROM FLOOR PLANS AND FINISH SCHEDULES.

A3000 HOLLOW METAL DOOR FRAME @ HEAD - INTERIOR

NTS



NOTES:
1. FINISH WALL THICKNESS: ACTUAL STUD SIZE PLUS WALL MATERIAL THICKNESS. VERIFY TOTAL THICKNESS FROM FLOOR PLANS AND FINISH SCHEDULES.

A3001 HOLLOW METAL DOOR FRAME @ DRYWALL

NTS

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EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ARCHITECTURAL DETAILS

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

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SHEET NO. A-503

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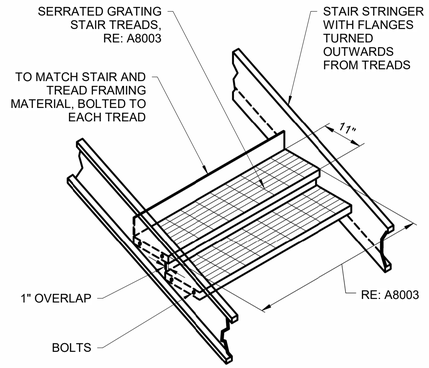
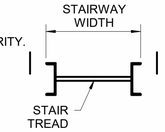
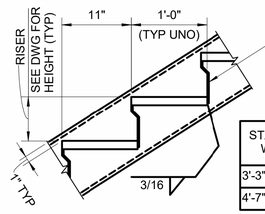


A8002 STAIR THREAD TO STRINGER

NTS

NOTES:
1. UNLESS OTHERWISE INDICATED, AT STEEL STAIR SYSTEMS USE STEEL SERRATED GRATING TREADS
2. ALL BOLTS AND CONCRETE ANCHORS SHALL BE SS AT ALUMINUM STAIR SYSTEMS.
3. STAIR HANDRAIL NOT SHOWN FOR CLARITY.
4. PROVIDE GALVANIC CORROSION PROTECTION BETWEEN DISSIMILAR METALS PER SPECIFICATIONS

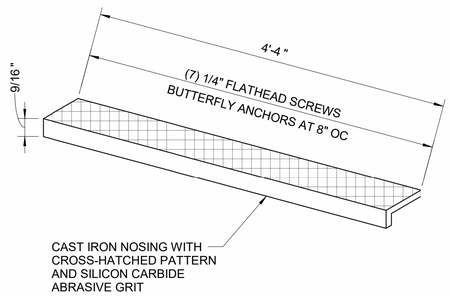




STAIRWAY WIDTH	MINIMUM TREAD BEARING BARS
3'-3" OR LESS	1 1/2" x 3/16"
4'-7" OR LESS	2" x 3/16"

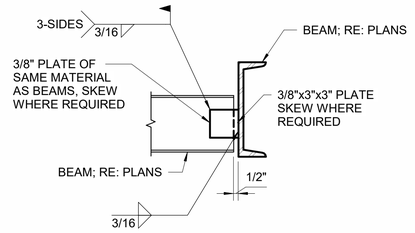
A8003 METAL STAIR

NTS



A8007 NOSE DETAIL

NTS



A8012 BEAM TO BEAM CONNECTION

NTS

NOTES:
1. MUST CONFORM TO NRCA ROOFING AND WATERPROOFING A-MTL-12

A7003 ROOF PENETRATION

NTS

NOTES:
1. LOCATE PIPE BETWEEN WEBS ONLY
2. SLEEVE LENGTH VARIES WITH INSULATION SYSTEM THICKNESS.
3. SLEEVE ID SHALL BE MINIMUM OF PIPE OD + ¼".
4. DO NOT CUT PREMOLDED BOOT. IT MUST BE PULLED OVER THE VENT PIPE.
5. IF THE PLATES AND FASTENERS INTRUDE INTO BOOT FLANGE AREA, THEN A TARGET MUST FIRST BE INSTALLED OVER PLATES AND FASTENERS BEFORE BOOT INSTALLATION.
6. FASTENERS SHALL NOT INTRUDE INTO THE 2" HEAT WELD SEAM.
7. APPLY CUT EDGE SEALANT TO ALL CUT REINFORCED MEMBRANE.

A7004 VENT THROUGH STEEL ROOF DECK

NTS

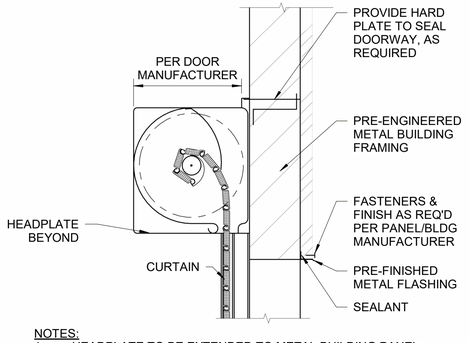
NOTES:
1. AT STRUCTURAL STEEL BEAMS USE ASTM A325-N BOLTS AND STANDARD CARBON STEEL CONCRETE SCREW ANCHORS.
2. PROVIDE GALVANIC CORROSION PROTECTION BETWEEN DISSIMILAR METALS PER SPECIFICATIONS.

A8001 STAIR STRINGER TO THICKENED SLAB

NTS

A4502 ROOF EAVE

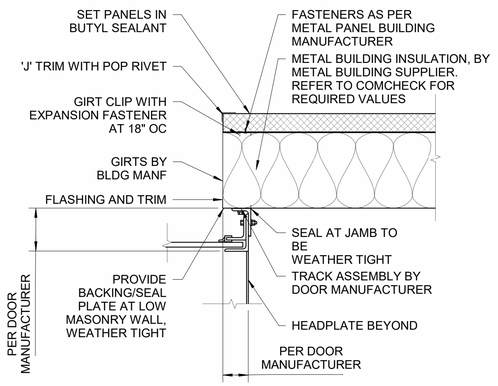
NTS



NOTES:
1. HEADPLATE TO BE EXTENDED TO METAL BUILDING PANEL TO SEAL DOORWAY

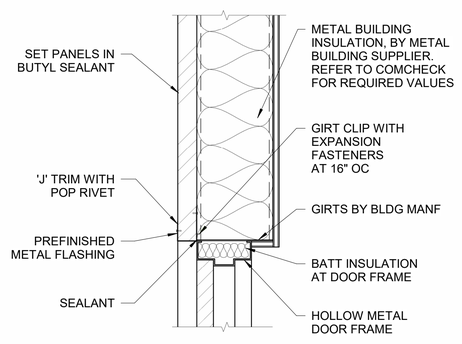
A6000 OVERHEAD COILING DOOR HEAD (METAL)

NTS



A6001 OVERHEAD DOOR JAMB (METAL BUILDING)

NTS



A6002 HOLLOW METAL DOOR JAMB

NTS

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ARCHITECTURAL DETAILS

DRAWN: BPB | CHECK: DT

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 78

SHEET NO. A-504

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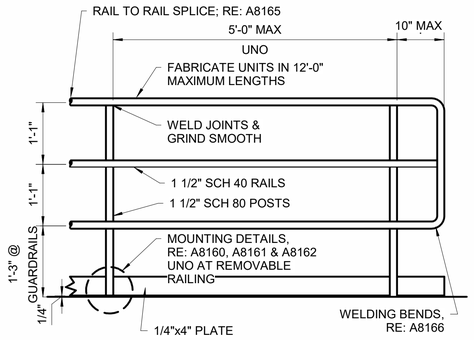
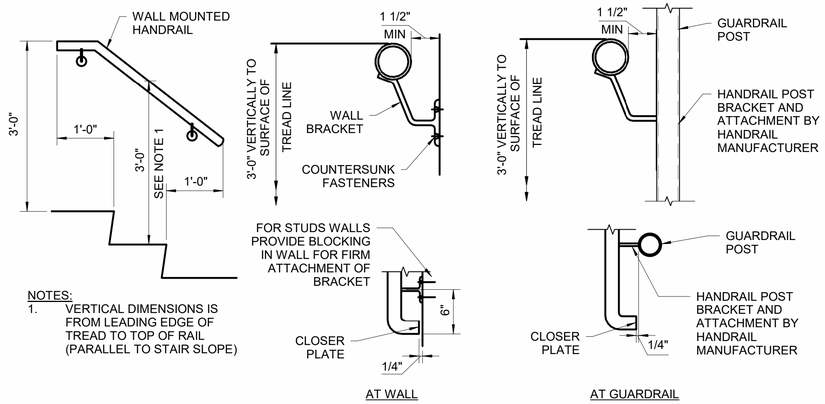


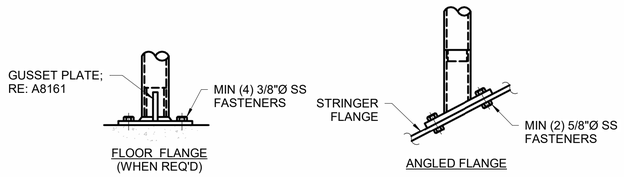
NOTES:
1. AT STEEL STAIR SYSTEMS, FABRICATE HAND AND GUARDRAIL USING ASTM A53 GRADE B STEEL PIPE AT STEEL GUARDRAIL SYSTEMS. PAINT RAILING PER SPECIFICATIONS
2. AT HANDRAIL CONDITIONS TOP OF HANDRAIL SHALL BE 3"-0" FROM TOP OF TREAD AT THE NOSE.

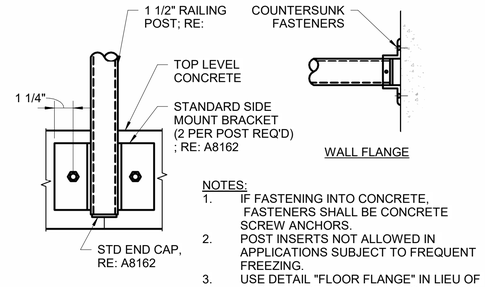
A8155 GUARDRAIL
NTS



NOTES:
1. VERTICAL DIMENSIONS IS FROM LEADING EDGE OF TREAD TO TOP OF RAIL (PARALLEL TO STAIR SLOPE)

A8158 STAIR HANDRAIL
NTS





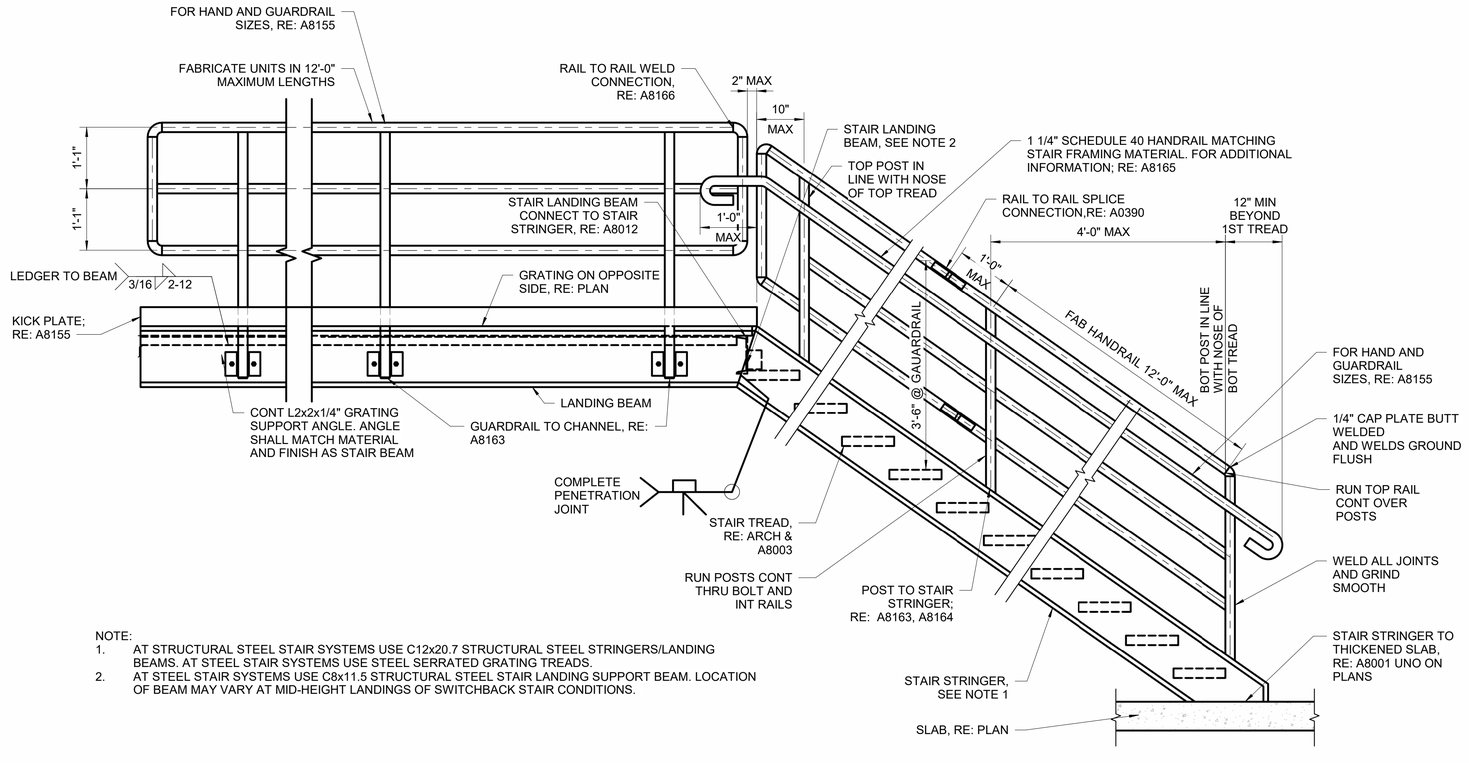
NOTES:
1. IF FASTENING INTO CONCRETE, FASTENERS SHALL BE CONCRETE SCREW ANCHORS.
2. POST INSERTS NOT ALLOWED IN APPLICATIONS SUBJECT TO FREQUENT FREEZING.
3. USE DETAIL "FLOOR FLANGE" IN LIEU OF POST INSERT WHERE WALL/CURB THICKNESS IS LESS THAN 8".
4. CONTRACTOR REQUIRED TO DESIGN RAILING SYSTEM PER SPECIFICATIONS.
5. FOR INFORMATION SHOWN BUT NOT NOTED; RE: A8162

A8160 RAILING, GUARDRAIL & HANDRAIL SUPPORT
NTS

NOTES:

1. GUARDRAIL SHALL BE PROVIDED AT STAIRS AND OPEN SIDED WALKING SURFACES WHEN THEY ARE ELEVATED MORE THAN 30" ABOVE GRADE OR ADJACENT CONSTRUCTION.
2. ROOFS (WHERE EQUIPMENT IS LOCATED LESS THAN 10' FROM ROOF EDGE) ELEVATED GREATER THAN 30" ABOVE GRADE OR ADJACENT CONSTRUCTION SHALL BE PROVIDED WITH A 42" HIGH GUARDRAIL FORMING A PROTECTIVE BARRIER. A PARAPET WALL 42" OR MORE IN HEIGHT MAYBE THE GUARDRAIL AT ROOF LOCATIONS.
3. SEE DRAWINGS OR SPECIFICATIONS FOR GUARDRAIL MATERIAL TYPE(S).
4. HANDRAIL SHALL BE PROVIDED AT BOTH SIDES OF EVERY STAIR HAVING TWO OR MORE RISERS.
5. HANDRAIL SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIR.
6. HANDRAIL EXTENSIONS SHALL BE PROVIDED AT BOTH SIDES OF STAIRS AND AT TOP AND BOTTOM. HANDRAIL EXTENSION ON STAIR MOUNTED GUARDRAIL MAY BE OMITTED WHERE IT IS PERPENDICULAR TO AND IMPEDES EXIT FLOW.
7. INSIDE HANDRAIL ON SWITCHBACK STAIRS SHALL BE CONTINUOUS.
8. WALL MOUNTED HANDRAILS SHALL BE SINGLE RAILS WITH TOP OF RAIL AT 2'-10" HEIGHT ABOVE LANDINGS OR TREAD NOSING, MATCHING RAILING ON OPPOSITE SIDE.
9. ALL GUARDRAIL SHALL BE FIXED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
10. PLACE CENTER OF EMBEDDED POSTS 4" FROM EDGE OF CONCRETE AND 6" FROM FRONT EDGE OF CONCRETE STAIR NOSING UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
11. PLACE GUARDRAIL POSTS OPPOSITE EACH OTHER WHERE RAILINGS ARE PARALLEL.
12. FOR GUARDRAIL POSTS MOUNTED TO BEAM OR STAIR CHANNEL. PROVIDE MANUFACTURERS REINFORCED CONNECTION FROM POST TO PLATE. PLATE AND REINFORCED INSERTS SHALL BE ALUMINUM OR STAINLESS STEEL.
13. PROVIDE SLIP JOINTS AT 24' MAX CENTERS FOR EXPANSION OF RAIL AND KICKPLATE. LOCATE RAIL SLIP JOINTS AT FACE OF POST. GAP AT TIME OF INSTALLATION SHALL BE BASED ON TEMPERATURE OF GUARDRAIL (3/8" GAP AT 25° F, 0" GAP AT 100° F). AT CONCRETE EXPANSION JOINTS, PROVIDE MINIMUM OR 1" GAP IN SLIP JOINTS BUT NOT LESS THAN WIDTH OF CONCRETE EXPANSION JOINT. INSERT SLEEVES SHALL BE LONG ENOUGH TO ALLOW FOR THE FULL RANGE OF MOVEMENT.MATERIAL FOR SLIP JOINT PLATE AND KICKPLATE CHANNEL SHALL BE OF THE SAME MATERIAL AS THE GUARDRAIL.
14. MATERIAL FOR SLIP JOINT PLATE AND KICKPLATE CHANNEL SHALL BE OF THE SAME MATERIAL AS THE GUARDRAIL.
15. ALL JOINTS FOR STAINLESS STEEL GUARDRAIL AND HANDRAIL SHALL BE COPED, WELDED, AND GROUND SMOOTH.
16. PROVIDE KICKPLATE AT ALL LOCATIONS EXCEPT AT SLOPING GUARDRAIL ON STAIRS AND WHERE GUARDRAIL IS MOUNTED ON A 4" MIN CURB. KICKPLATE MAY BE EXTRUDED OR BENT PLATE AND SHALL BE ATTACHED WITH SS BOLTS IN 5/16" x 3/4" SLOTTED HOLES. BOLT KICKPLATE TO POST WITH BOTTOM 1/4" CLEAR FROM FLOOR. FOR SIDE MOUNTED GUARDRAIL PROVIDE STANDARD SPACER BLOCK BETWEEN POST AND KICKPLATE TO MAINTAIN 1/4" MAX CLEAR SPACING. HAND TIGHTEN AND CENTER PUNCH BOLT THREADS TO LOCK. SPLICES SHALL ACCOMMODATE TEMPERATURE EXPANSION PER NOTE 13.
17. COAT ALL SURFACES OF ALUMINUM THAT COME IN CONTACT WITH CONCRETE AS SPECIFIED. PLACE NEOPRENE GASKET BETWEEN ALUMINUM AND STEEL.

A8150 GUARDRAIL HANDRAIL NOTES
NTS



NOTE:
1. AT STRUCTURAL STEEL STAIR SYSTEMS USE C12x20.7 STRUCTURAL STEEL STRINGERS/LANDING BEAMS. AT STEEL STAIR SYSTEMS USE STEEL SERRATED GRATING TREADS.
2. AT STEEL STAIR SYSTEMS USE C8x11.5 STRUCTURAL STEEL STAIR LANDING SUPPORT BEAM. LOCATION OF BEAM MAY VARY AT MID-HEIGHT LANDINGS OF SWITCHBACK STAIR CONDITIONS.

A8151 STAIR HANDRAIL AT SLAB OR BEAM
NTS

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 79041PE OREGON JULY 2, 2011 BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ARCHITECTURAL DETAILS

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1-1/2 Inches

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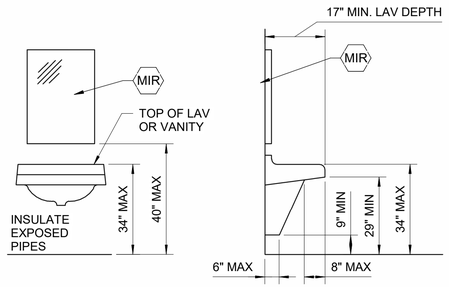

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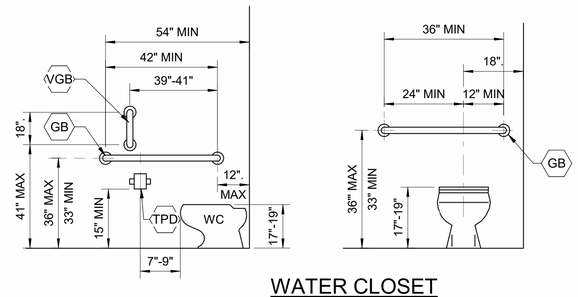
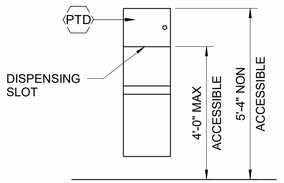
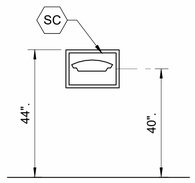


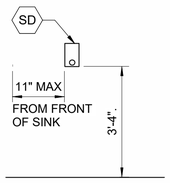
WATER CLOSET



PAPER TOWEL DISPENSER/
WASTE RECEPTACLE

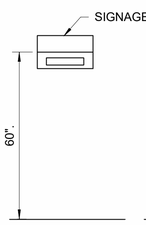


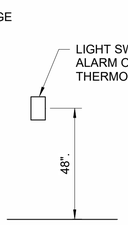
TOILET SEAT-COVER
DISPENSERS

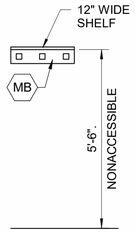


SOAP DISPENSER

DISPENSERS







MISC.

TOILET ACCESSORY LEGEND

GB	GRAB BAR, SIZE AS SHOWN
VGB	VERTICAL GRAB BAR
MIR	MIRROR 24 x 36
PTD	RECESSED PAPER TOWEL DISPENSER AND RECEPTACLE
SD	SOAP DISPENSER
SC	TOILET SEAT- COVER DISPENSER
TPD	TOILET PAPER DISPENSER
DF	HIGH/LOW DRINKING FOUNTAIN
UH	UNIT HEATER, SEE MECHANICAL
MB	MOP AND BROOM HOLDER (24")

GENERAL NOTES

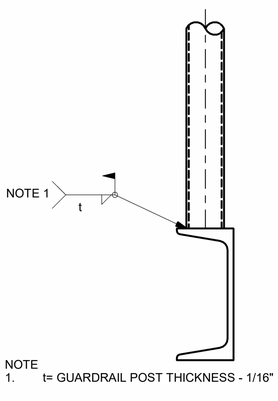
1. SEE SPECIFICATION SECTION 10 24 00, TOILET AND BATH ACCESSORIES, FOR SELECTED MODEL INFORMATION.
2. INSULATION OF ACCESSIBLE TOILET ANT BATH ACCESSORIES AND OTHER FIXTURES AND ITEMS SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA)
3. GRAB BARS TO BE CONSTRUCTED AND INSTALLED TO MEET THE FOLLOWING STRUCTURAL STRENGTH:

   -250 LB. BENDING MOMENT
   -250 LB SHEAR STRESS

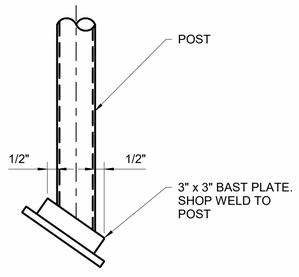
   SHEAR FORCE INDUCED ON FASTENER OR MOUNTING DEVICE FROM APPLICATION OF 250 LB. FORCE SHALL BE LESS THAN ALLOWABLE LATERAL LOAD OF FASTENER OR SUPPORT STRUCTURE.

   TENSILE FORCE INDUCED BY DIRECT TENSION FORCE OF 250 LB. PLUS MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBS. SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN FASTENER AND SUPPORTING STRUCTURE.
4. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
5. DOOR OPENING FORCE
   EXTERIOR - 8.5 LB. SLIDING - 5 LB. INTERIOR HINGED-5 LB.
6. ALL DOORS ARE DIMENSIONED 4-INCHES FROM FACE OF STUD UNLESS NOTED OTHERWISE.

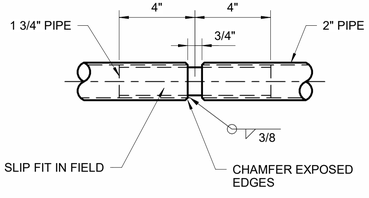
A8500 INTERIOR WALL SUPPORT
NTS



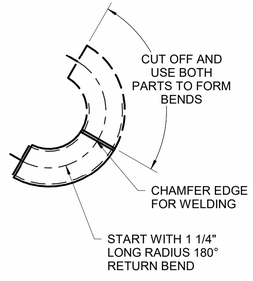
A8163 POST TO HANDRAIL BEAM
NTS



A8164 POST TO STAIR STRINGER
NTS



A8165 RAIL TO RAIL SPLICE
NTS



A8166 RAIL TO RAIL WELD CONNECTION
NTS

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79041PE
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OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ARCHITECTURAL DETAILS

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PAGE 80
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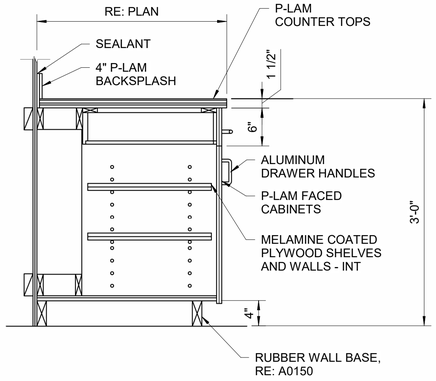
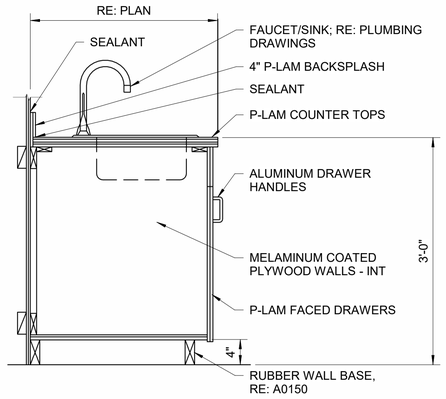


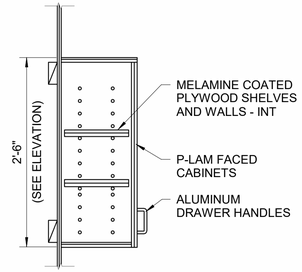
A9001 BASE CABINET

NTS



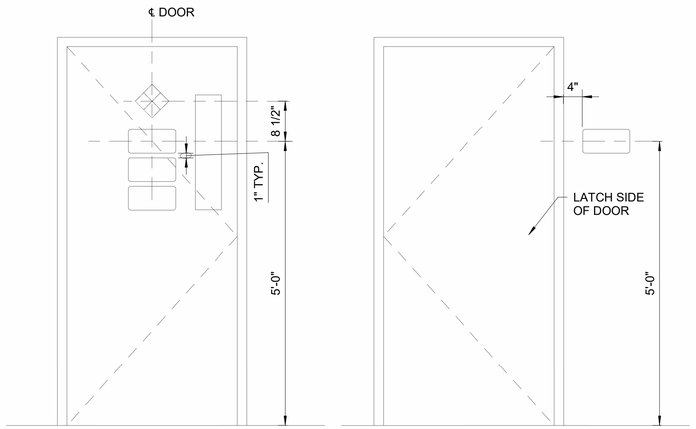
A9003 BREAK ROOM CABINET WITH SINK

NTS



A9004 UPPER WALL CABINET

NTS



SIGN MOUNTING LOCATIONS

MOUNT SIGNS ON RIGHT HAND OF
ALL DOUBLE DOOR LOCATIONS

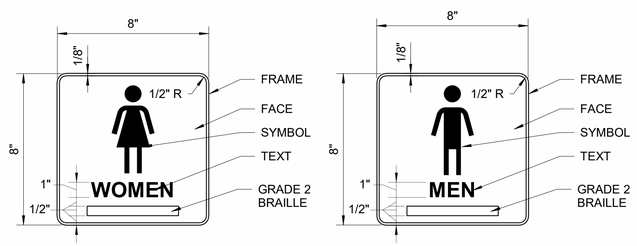
NOTES:

1. SIGN SUBCONTRACTOR IS RESPONSIBLE TO MAKE SURE ALL SIGNS USED ON THIS PROJECT ARE IN THE PROPER OSHA OR ADA FORMAT. THIS DRAWING IS MEANT TO ESTABLISH THE DESIRED MESSAGE AND APPLICATION FOR EACH SIGN. THE EXACT GRAPHIC DESIGN OF THE SIGN AND FINAL SIZES OF SIGNS ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.

2. ALL DOOR NAMEPLATES IN A BUILDING WILL BE THE SAME FINAL SIZE.

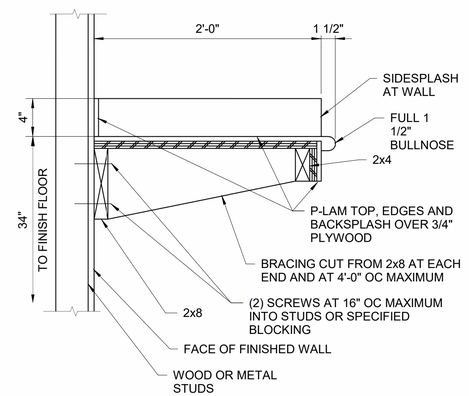
A8501 RESTROOM SIGN LOCATIONS

NTS



A8502 RESTROOM SIGNS

NTS



A9000 VANITY COUNTER

NTS

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Richland WA, 99352
(509) 940-2080

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79041PE
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OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

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1-1/2 Inches

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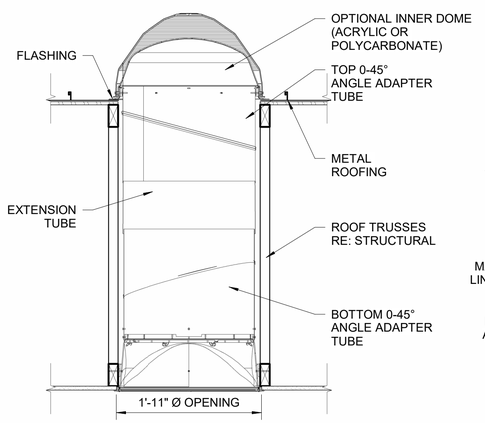
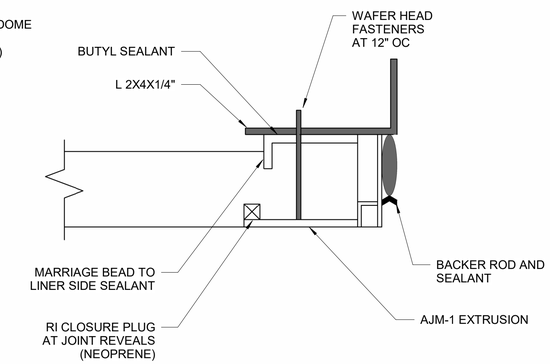
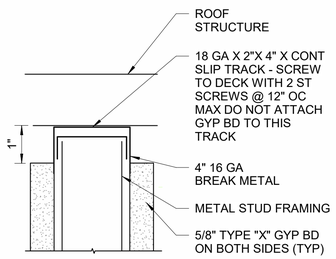


A9505 SOLATUBE ASSEMBLY

NTS





NOTE:
DO NOT FASTEN PARTITION WALL FRAMING OR FINISH TO SLIP CONNECTION

A9506 SLIP JOINT

NTS

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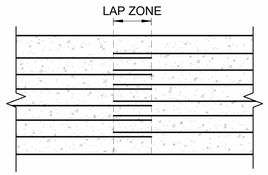
REINF. SIZE	LAP CLASS	TENSION LAP SPLICE LENGTH, (ℓt), (INCH)															
		f'c = 3000psi				f'c = 4000psi				f'c = 4500psi				f'c = 5000psi			
		TOP BARS[4]		OTHER BARS		TOP BARS[4]		OTHER BARS		TOP BARS[4]		OTHER BARS		TOP BARS[4]		OTHER BARS	
		CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	A	24	33	24	25	24	28	24	24	24	27	24	24	24	25	24	24
	B	29	43	24	33	25	37	24	29	24	36	24	28	24	33	24	26
#4	A	29	43	24	33	25	37	24	29	24	35	24	27	24	34	24	26
	B	38	56	29	43	33	49	25	38	31	46	24	36	30	45	24	34
#5	A	36	54	28	42	31	47	24	36	30	44	24	34	28	42	24	32
	B	47	71	37	55	41	62	32	47	39	58	30	45	37	55	29	42
#6	A	43	65	33	50	37	56	29	43	35	53	27	41	34	50	26	39
	B	56	85	43	65	49	73	38	56	46	69	36	54	45	65	34	51
#7	A	63	94	48	72	54	81	42	63	51	77	40	59	49	73	38	56
	B	82	123	63	94	71	106	55	82	67	101	52	77	64	95	50	73
#8	A	72	107	55	83	62	93	48	72	59	88	45	68	56	83	43	64
	B	94	140	72	108	81	121	63	94	77	115	59	89	73	108	56	84
#9	A	81	121	62	93	70	105	54	81	66	99	51	76	63	94	48	72
	B	106	158	81	121	91	137	71	106	86	129	67	99	82	123	63	94
#10	A	91	136	70	105	79	118	61	91	74	111	57	86	71	106	54	81
	B	119	177	91	137	103	154	80	119	97	130	75	112	93	138	71	106
#11	A	101	151	78	116	87	131	67	101	82	123	64	95	78	117	60	90
	B	132	197	102	151	114	171	88	132	107	160	84	124	102	153	78	117

NOTES:
1. ℓ - BASIC LAP LENGTH, SHOWN AT ABOVE.
2. LAP SPLICES IN TABLE ARE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 MAXIMUM UNCOATED REINFORCING BARS. FOR LAP LENGTHS USING LIGHTWEIGHT AGGREGATE USE 1.3ℓ.
3. CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A LAP ZONE.
   CLASS B* - LAP SPLICES FOR MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A LAP ZONE.
   *ALL HYDRAULIC OR WATER CONTAINING STRUCTURES SHALL USE CLASS B LAP LENGTHS.
4. "TOP BARS" ARE THE TOP MOST BARS WITH 12 INCHES OR MORE OF FRESH CONCRETE CAST BELOW THEM.
5. FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75ℓ OR 12" MIN.
6. CASE SELECTION
   a. ALL REINFORCING SHALL BE LAPPED PER CASE 1 EXCEPT AS NOTED BELOW
   b. FOR VERTICAL AND HORIZONTAL REINFORCING WITH CLEAR COVER LESS THAN db, REINFORCING SHALL BE LAPPED PER CASE 2
   c. FOR VERTICAL AND HORIZONTAL REINFORCING WITH BAR SPACING LESS THAN 2db, REINFORCING SHALL BE LAPPED PER CASE 2
7. DIFFERENT SIZE BARS ARE TO BE LAPPED PER THE LARGER BAR LAP LENGTHS.
8. FOR EPOXY COATED BARS USE 1.2ℓ.

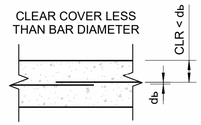
CLASS A VS CLASS B LAP ILLUSTRATIONS

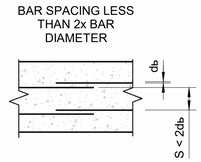
CLASS A: HALF OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP ZONE

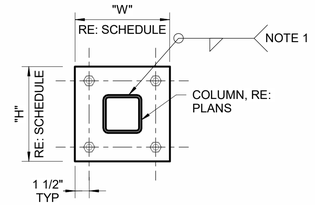


CLASS B: MORE THAN HALF OF THE BARS ARE SPLICED WITHIN THE LAP ZONE

CASE 2 ILLUSTRATIONS







TYPE (A) BASE PLATE

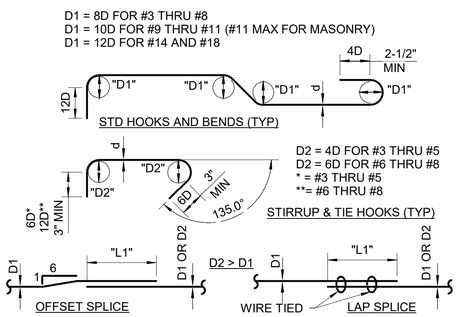
NOTES:
1. UNO ON PLANS OR DETAILS USE 1/4" WELD FOR BASE PLATE LESS THAN OR EQUAL TO 5/8" THICK, 5/16" FOR A BASE PLATE THICKER THAN 5/8".

S0005 CONCRETE LAP SPLICE LENGTHS

NTS

S0012 HSS COLUMN BASE PLATE

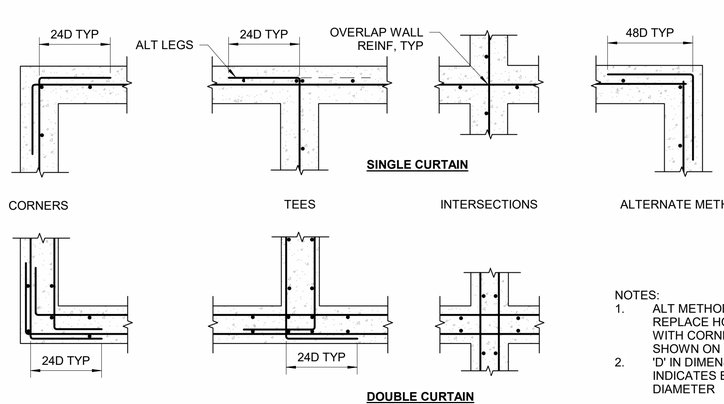
NTS



MARK	WALL TYPE	LAP LENGTH	MIN LAP LENGTH
L1	CONCRETE	30D2 FOR 40 GRADE	2'-0"
L1	CONCRETE	40D2 FOR 60 GRADE <= #6 BAR 48D2 FOR 60 GRADE > #7 BAR	2'-0"
L1	MASONRY	48D2	2'-0"

S0002 TYPICAL HOOKS & BENDS

NTS



NOTES:
1. ALT METHOD MAY REPLACE HOOKED END WITH CORNER REINF AS SHOWN ON DETAIL
2. 'D' IN DIMENSION INDICATES BAR DIAMETER

S0003 REINFORCING CONCRETE WALL INTERSECTIONS

NTS

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed: 2026.05.01 08:00:00 -08'00'
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

DRAWN: LDL | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

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SHEET NO. S-501

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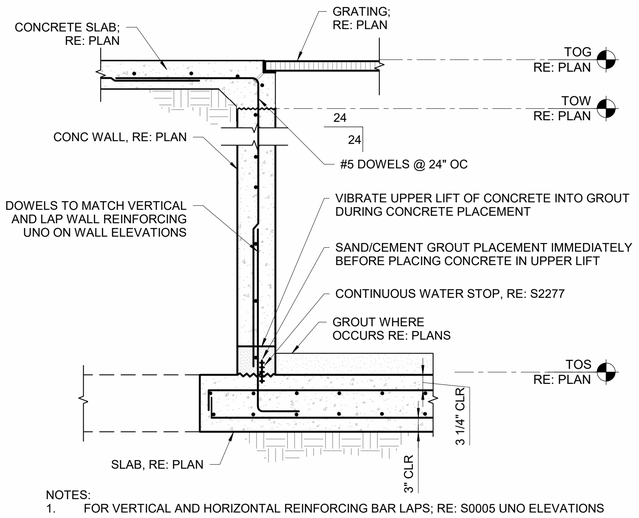
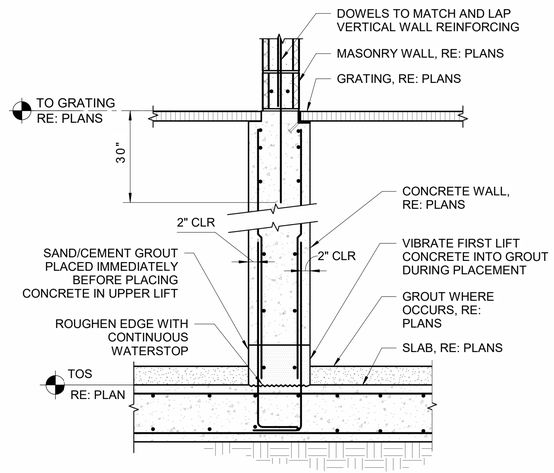
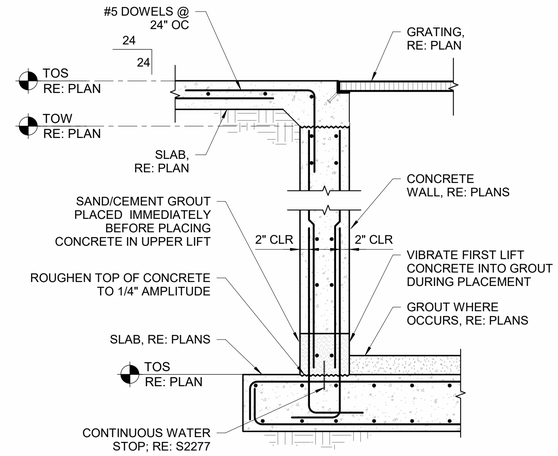


NOTES:
1. FOR VERTICAL AND HORIZONTAL REINFORCING BAR LAPS; RE: S0005 UNO ELEVATIONS

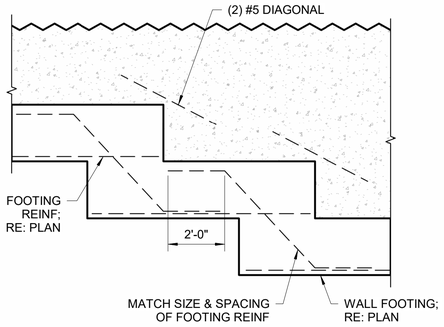
S0172 CONTAINMENT WALL TO SLAB
NTS



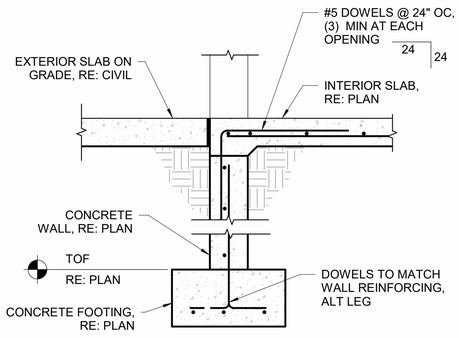
S0176 CMU WALL & GRATING @ CONTAINMENT WALL
NTS



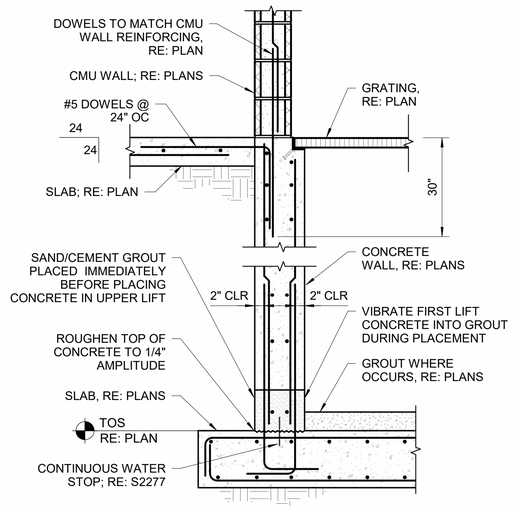
S0177 CONTAINMENT WALL & GRATING @ SLAB
NTS



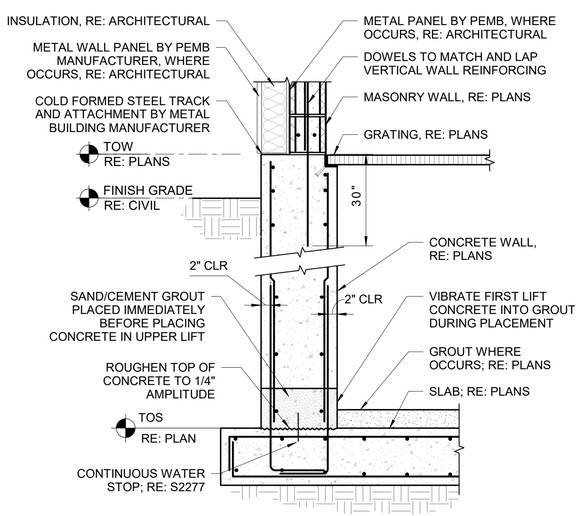
S0100 STEPPED FOOTING
NTS



S0150 SLAB AT DOOR OPENING
NTS



S0152 FOUNDATION AT INTERIOR CMU WALL
NTS



S0169 CMU WALL & GRATING @ CONTAINMENT AREA
NTS

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
Digitally Signed 2026.03.01 08:38:00 PDT
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

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VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

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SHEET NO. S-502

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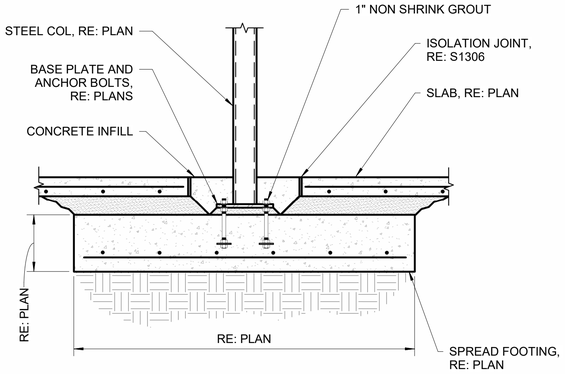
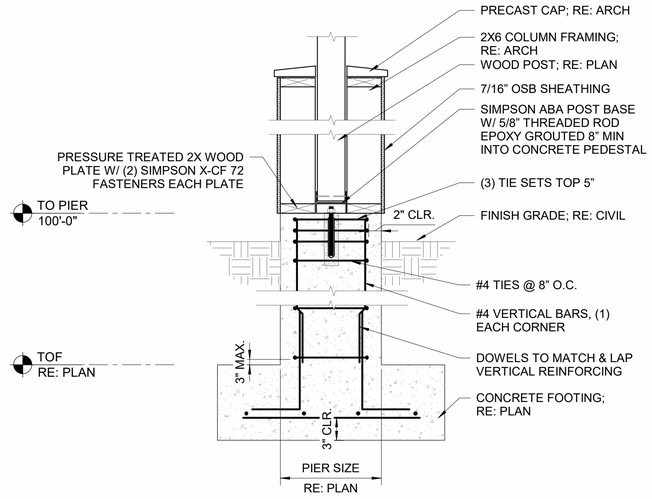


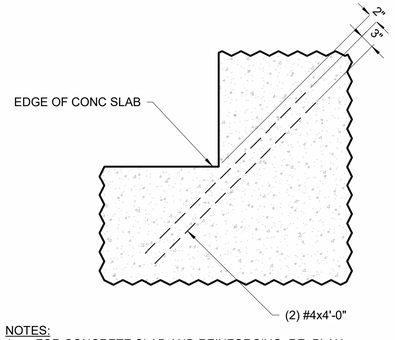
S0501 COLUMN AT INTERIOR SPREAD FOOTING

NTS



S0606 WOOD POST @ CONCRETE PIER

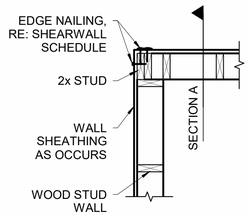
NTS

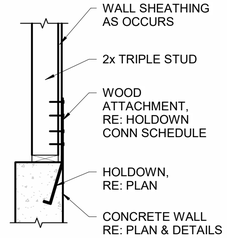


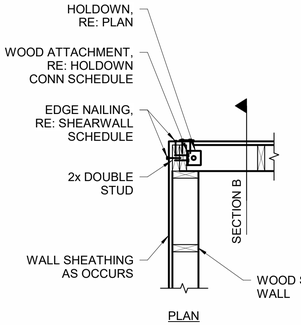
NOTES:
1. FOR CONCRETE SLAB AND REINFORCING, RE: PLAN.

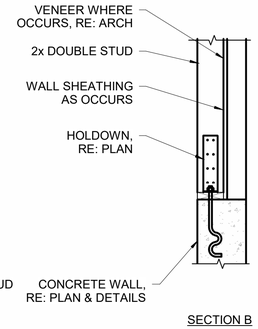
S1250 REINFORCING AT RE-ENTRANT CORNERS

NTS



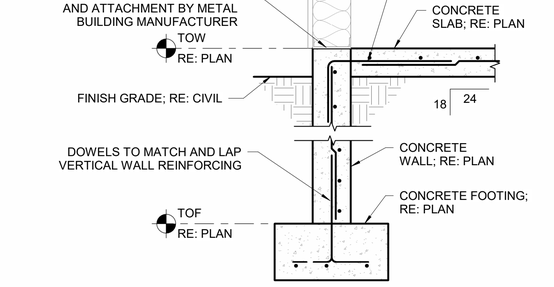






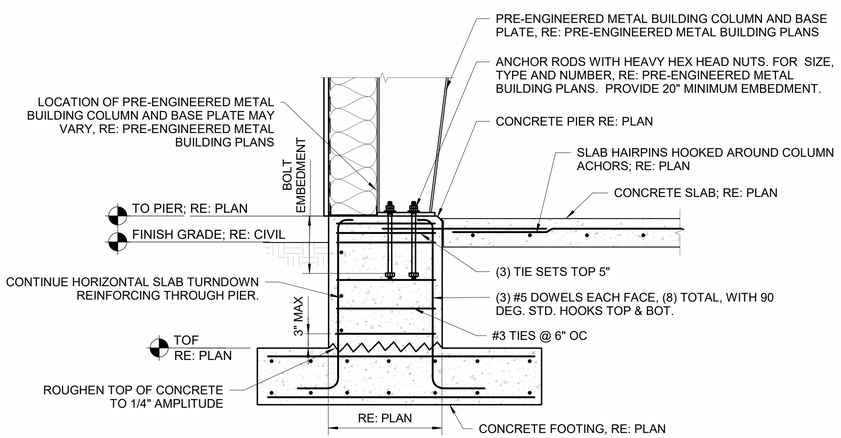
S0302 TYPICAL HOLDDOWN WOOD STUDS

NTS



S0308 METAL BUILDING PANEL AT EXTERIOR STEM WALL

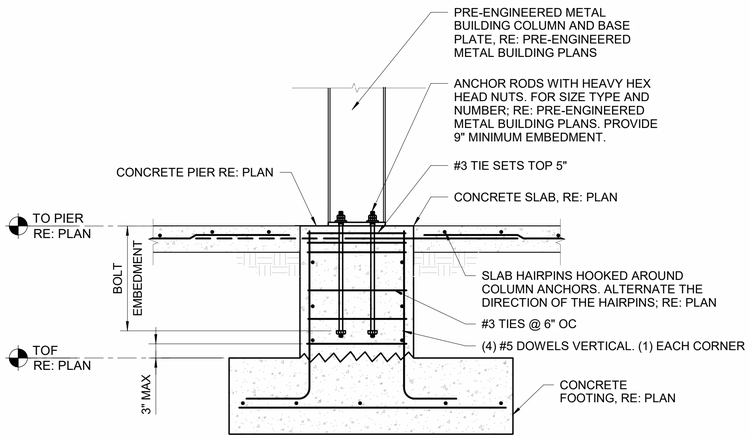
NTS



NOTE:
1. FOR INFORMATION SHOWN BUT NOT NOTED; RE: S0308

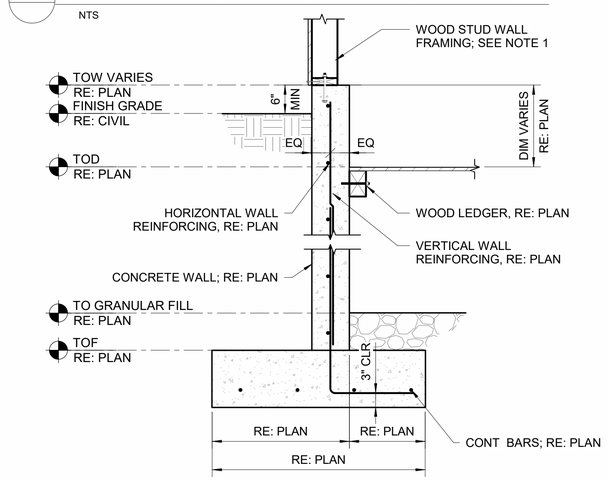
S0206 METAL BUILDING COLUMN @ EXTERIOR WALL

NTS



S0207 INTERIOR METAL BUILDING COLUMN @ PEDESTAL

NTS



NOTE:
1. REFERENCE FLOOR FRAMING PLAN FOR ADDITIONAL FRAMING INFORMATION

S0251 FRAMING AT EXTERIOR FOUNDATION WALL

NTS

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79041PE
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

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VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

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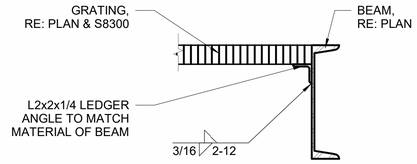
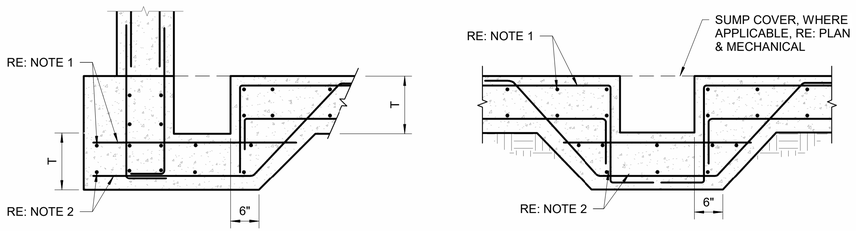


NOTE:
1. GUARDRAIL SYSTEM NOT SHOWN.
RE: PLANS FOR LOCATION & A8155

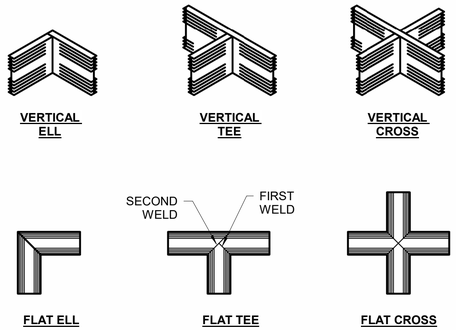
S3568 GRATING @ BEAM

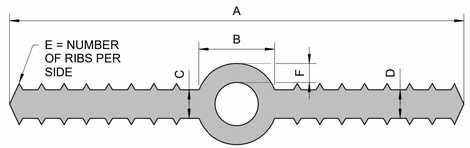
NTS



DEPTHS EQUAL TO T

NOTE:
1. REINF SIZE SHALL MATCH TOP MAT SIZE.
2. REINF SIZE SHALL MATCH BOTTOM MAT SIZE.
3. RE: GEN STRUCT NOTES & SPECIFICATIONS FOR EDGE DISTANCES. DISTANCES NOT SHOWN FOR REINF CLARITY.
4. COORDINATE WITH MECHANICAL FOR EXACT SUMP DIMENSIONS AND REQUIREMENTS PRIOR TO CONSTRUCTION.



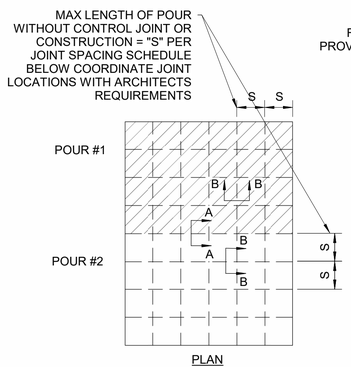


LOCATION	A	B	C	D	E	F	VINYLEX	GREEN STREAK
WALL TO WALL FOOTING	6"	1"	3/8"	3/8"	7 OR 8	1/2"	RB9-38H	735

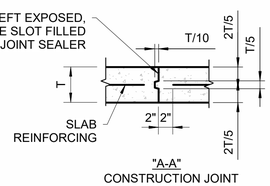
NOTES:
1. NO CENTERBULB ALLOWED IN THE WATERSTOP FOR THE VERTICAL WALL JOINTS.
2. SEE SPECIFICATIONS FOR MATERIAL REQUIREMENTS.
3. ALL SPLICES SHALL BE MADE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
4. ALL REBAR TO HAVE 1" MIN CLEAR FROM WATERSTOP, TYP.
5. FOR PREFABRICATED WATERSTOP JOINTS, RE: S2264

S2252 REINFORCING AT SUMP TRENCHES

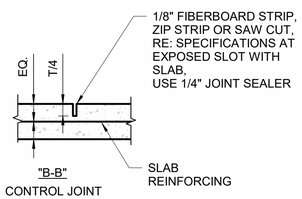
NTS



PLAN



"A-A"
CONSTRUCTION JOINT



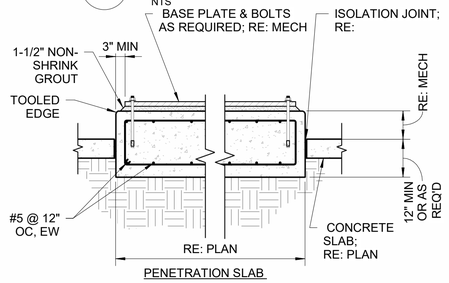
"B-B"
CONTROL JOINT

SLAB JOINT SPACING SCHEDULE	
SLAB THICKNESS (T)	JOINT SPACING (S)
4"	10'-10"
5"	12'-6"
6"	15'-0"
7"	17'-6"
8"	20'-0"

NOTE:
1. SLABS ON GRADE GREATER THAN 8" IN THICKNESS OR WITH DOUBLE MAT REINFORCING SHALL BE CONSIDERED STRUCTURAL SLABS AND SHALL NOT BE JOINTED AS INDICTED IN THIS DETAIL RE: PLANS FOR ADDTIONAL INFORMATION.

S2264 PRE-FABRICATED WATERSTOP JOINTS

NTS

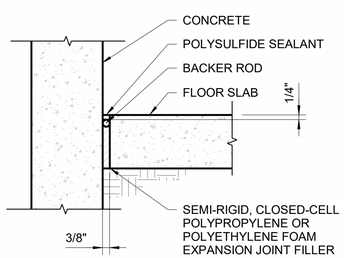


PENETRATION SLAB

NOTES:
1. WHERE NO DIMENSION IS INDICATED ON THE DRAWINGS, BASE DEPTH SHALL BE SET SO THAT THE BASE WEIGHS AT LEAST TWICE THE WEIGHT OF THE EQUIPMENT SUPPORTED.
2. FOR SIZE AND LOCATION; RE: MECH.

S1505 EQUIPMENT BASE WITH SEPARATING JOINT

NTS



S2277 WATER STOP SCHEDULE

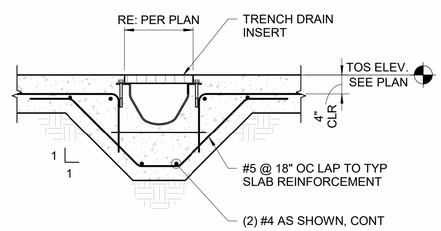
NTS

S1300 SLAB ON GRADE JOINT

NTS

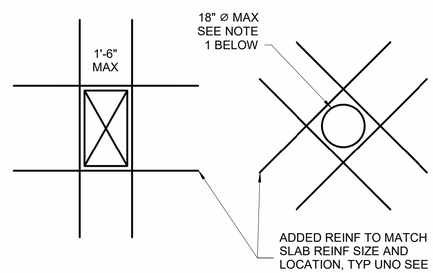
S1306 ISOLATION JOINT

NTS



S1307 TRENCH DRAIN SECTION

NTS



NOTES:
1. ADDED TRIM REINF IS NOT REQUIRED IF THE HOLE DIA IS LESS THAN 10" AND THE TYPICAL SLAB REINF IS NOT INTERRUPTED.
2. REINF STEEL EXTENSION SHALL BE 1.3 L_D MIN FOR #5 & LARGER.

S1308 SLAB OPENING TRIM REINFORCEMENT

NTS

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OREGON
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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

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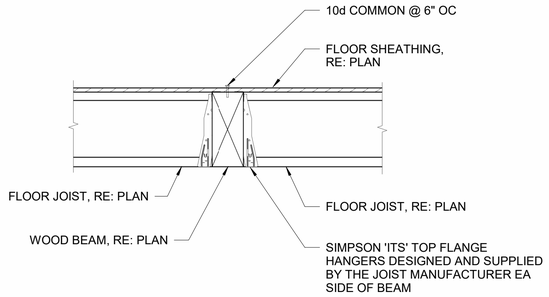
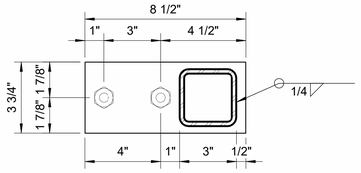


S4000 JOIST TO BEAM

NTS



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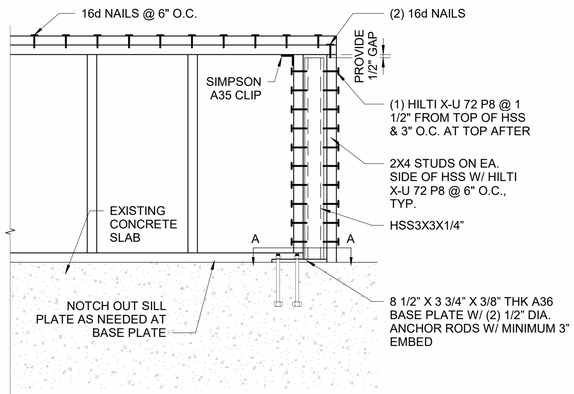
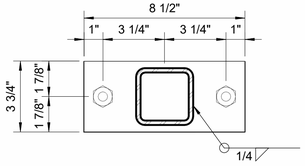


S4001 HALF STUD WALL END POST CONNECTION TO (E) CONCRETE SLAB

NTS



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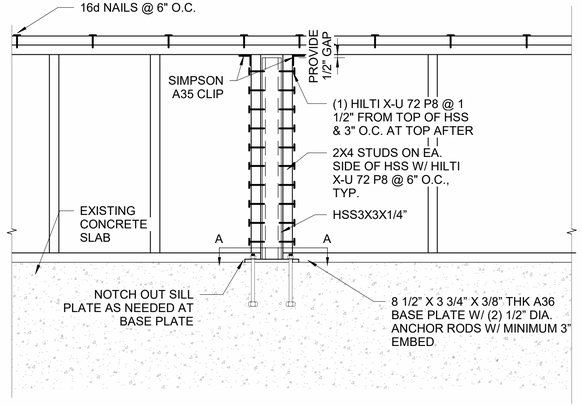
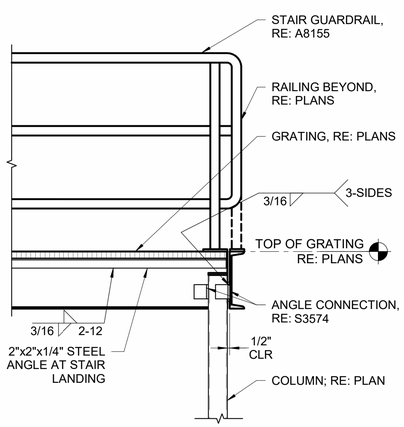


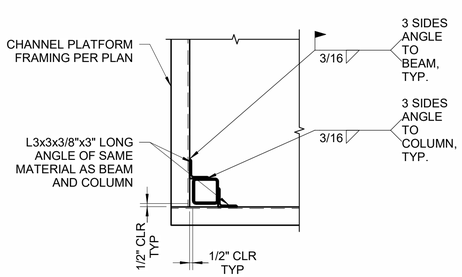
S4002 HALF STUD WALL MIDDLE POST CONNECTION TO (E) CONCRETE SLAB

NTS



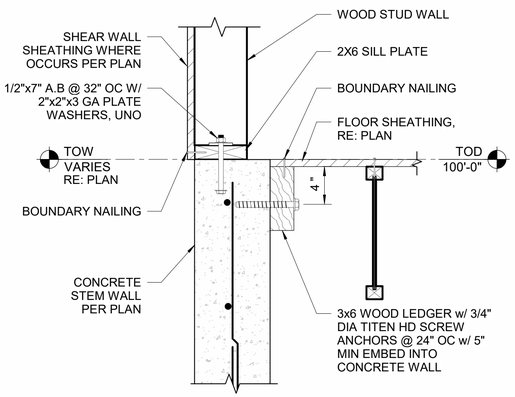
S3573 BEAM & COLUMN @ PLATFORM

NTS



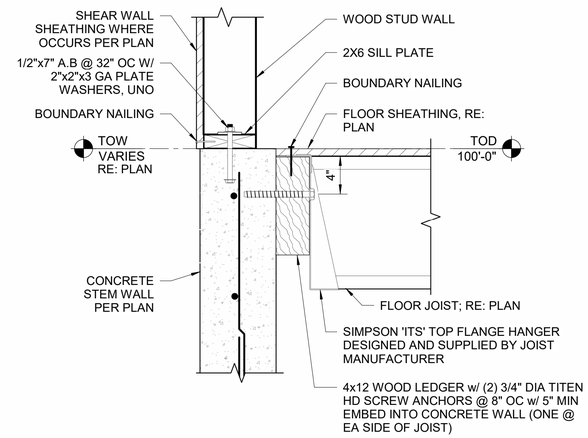
S3574 PLATFORM CHANNEL FRAMING TO COLUMN @ CORNERS

NTS



S3951 CONCRETE WALL @ WOOD DECK

NTS



S3952 JOIST TO CONCRETE WALL

NTS

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1060 Jadwin Avenue, Suite 375
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79041PE
Digitally Signed 2026.05.01
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

DRAWN: LDL | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

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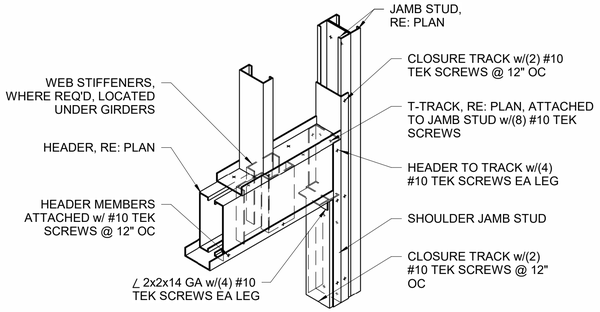
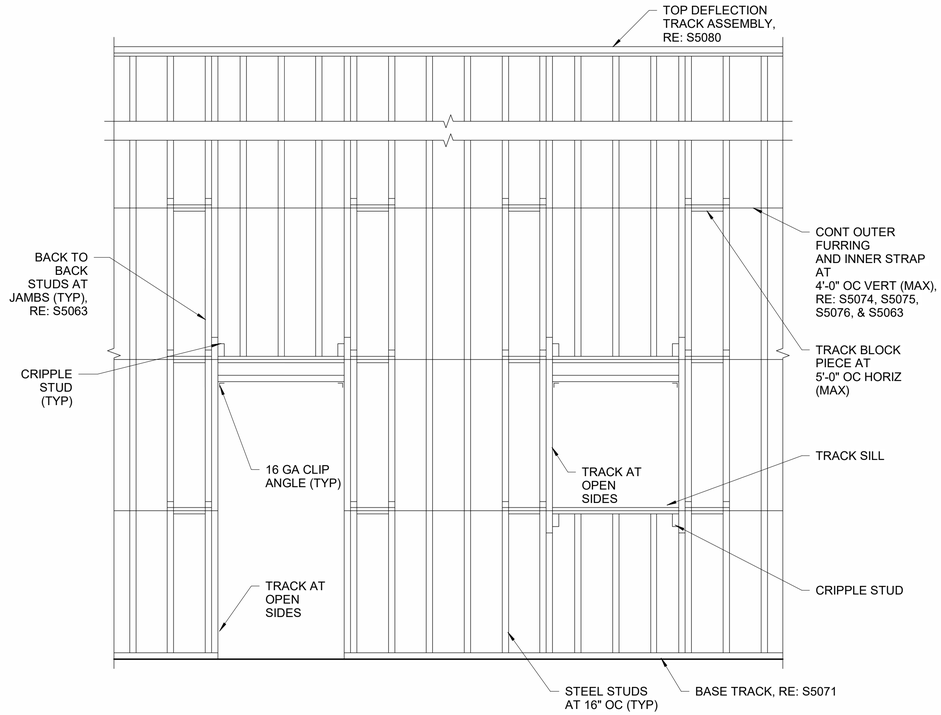


BOX HEADER

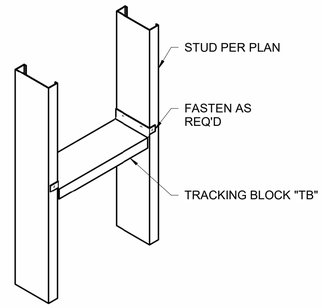
S5063 TYPICAL CFS HEADER

NTS



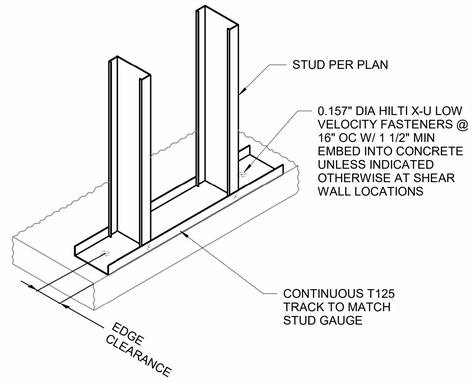
S5070 STEEL STUD WALL ELEVATION

NTS



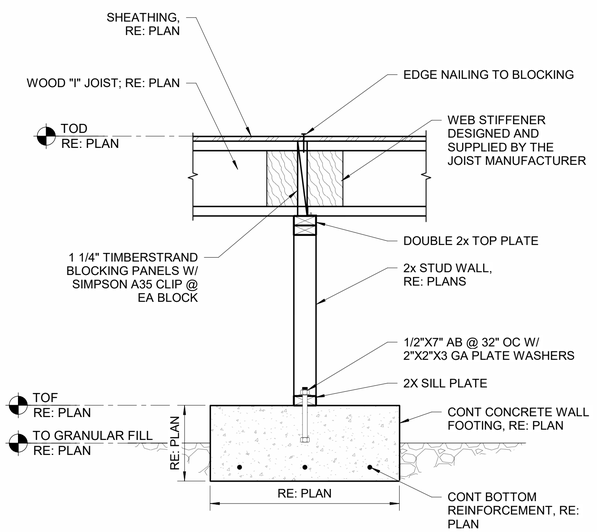
S5074 FRAMING BLOCKING ISO

NTS



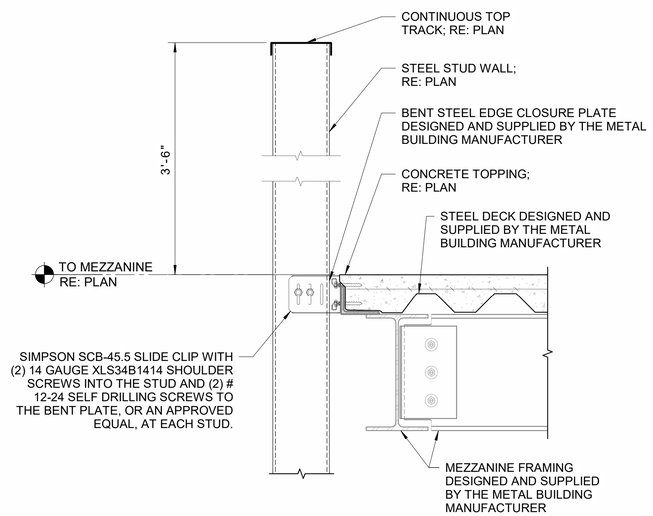
S5071 FRAMING BASE TRACK ISO

NTS



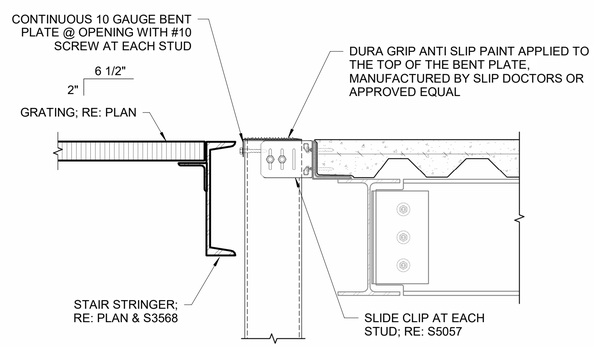
S4104 TYPICAL INTERIOR BEARING WALL @ CRAWL SPACE

NTS



S5057 MEZZANINE FRAMING @ PERIMETER

NTS



NOTE:
1. FOR INFORMATION SHOWN BUT NOT NOTED; RE: S5057

S5058 MEZZANINE FRAMING @ OPENING

NTS

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OREGON
JULY 2, 2011
BRANDON KELLER
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City of PENDLETON

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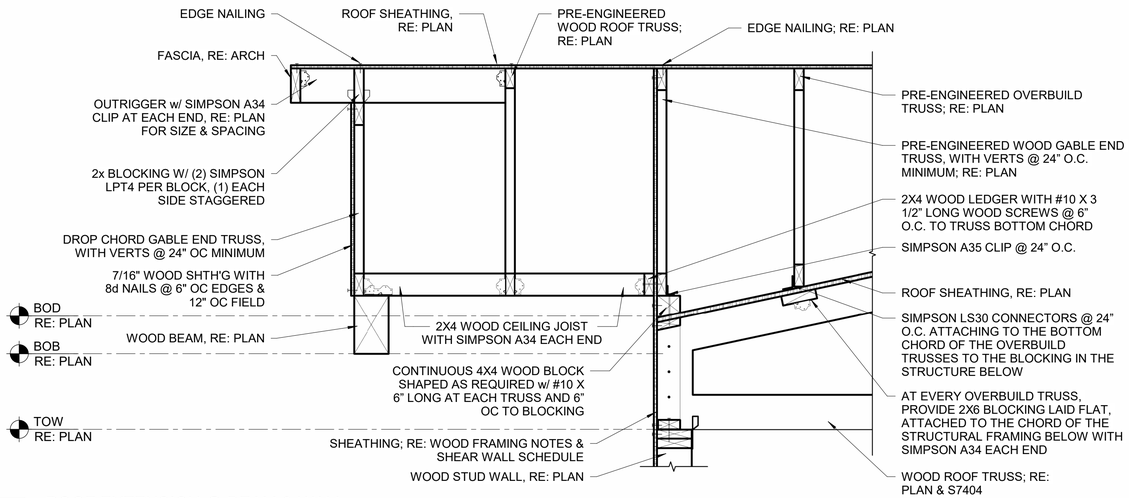
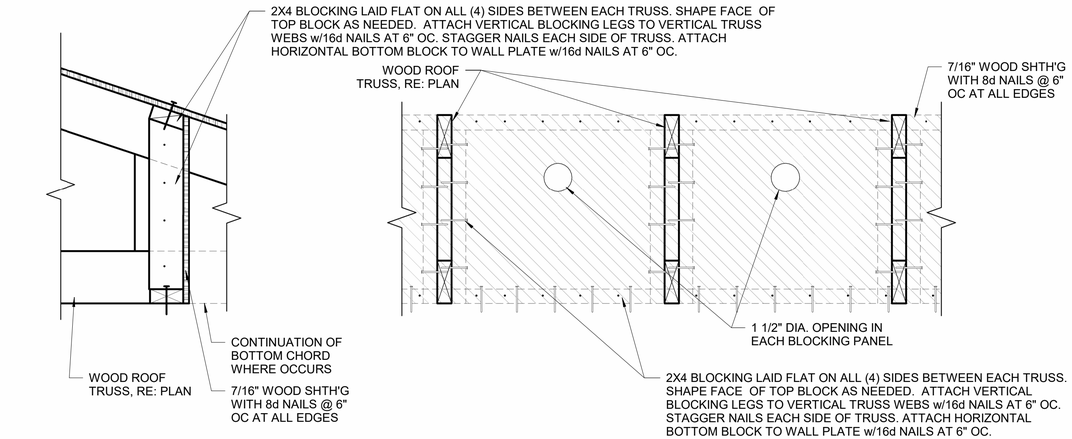


S7418 ROOF EXTENSION @ BEAM & WALL

NTS

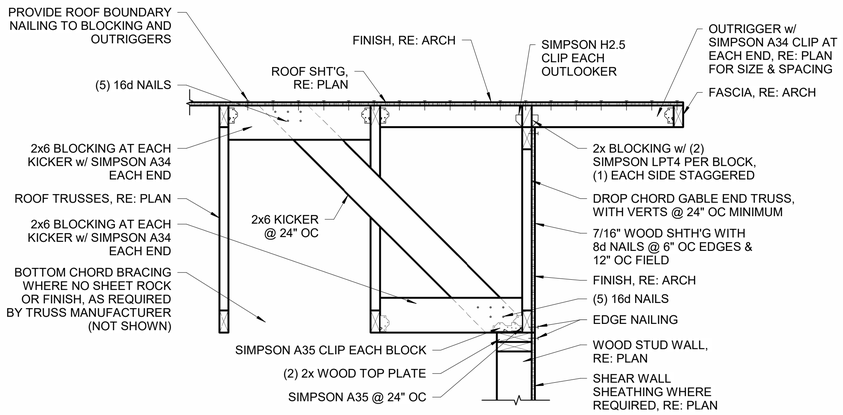


SECTION

ELEVATION

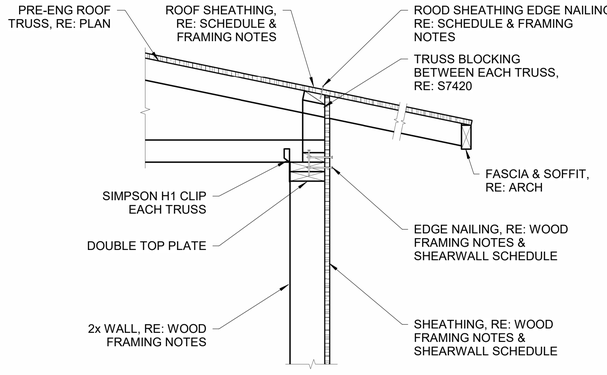
S7420 ROOF TRUSS BLOCKING PANEL

NTS



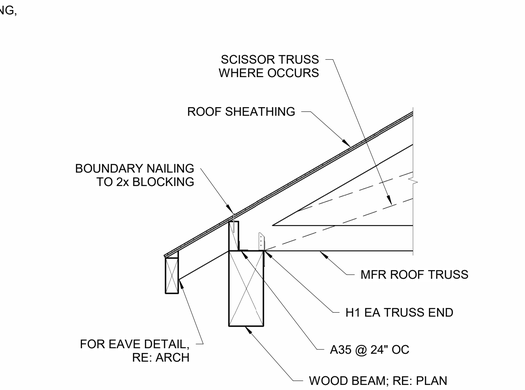
S7401 WOOD OUTLOOKER & TRUSS AT WOOD STUD WALL

NTS



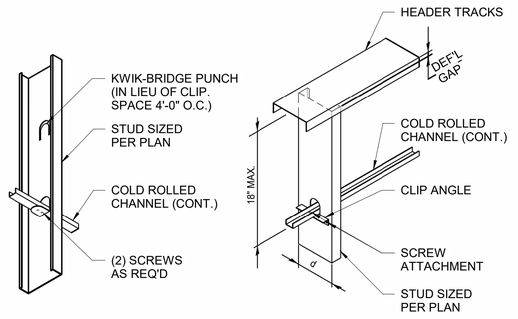
S7404 WOOD TRUSS TO WOOD STUD WALL

NTS



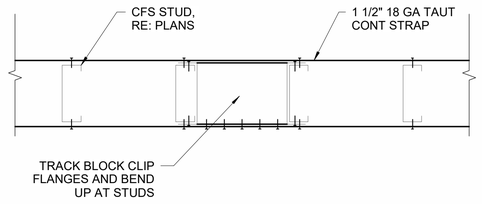
S7410 TRUSS TO BEAM

NTS



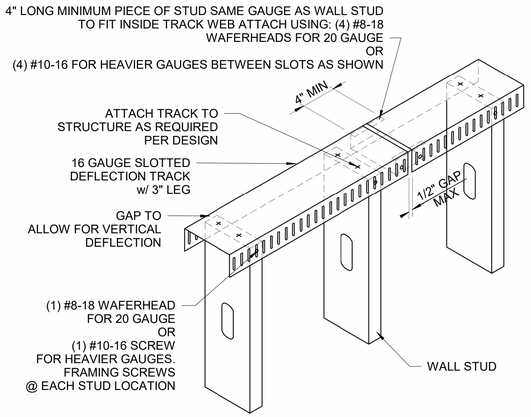
S5075 FRAMING BRIDGING (ALT) ISO

NTS



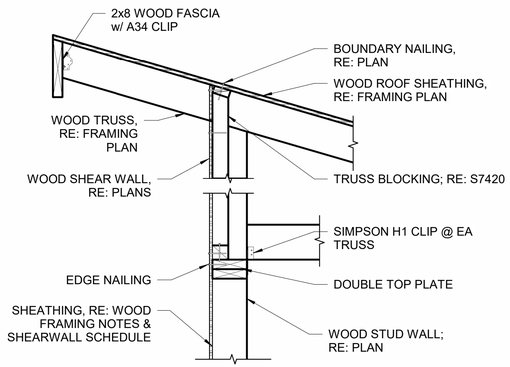
S5076 TYPICAL TRACK BLOCKING AND STRAP

NTS



S5080 FRAMING SLOTTED TRACK

NTS



S7251 WOOD TRUSS TO WOOD STUD WALL

NTS

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OREGON
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BRANDON KELLER
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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

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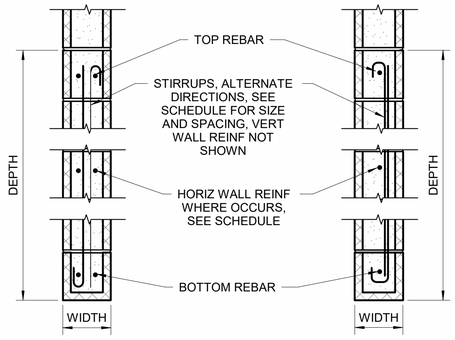
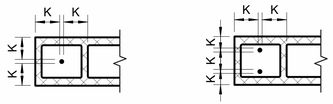


TYPICAL BEAM SECTIONS

NOTES:
1. BOND BEAM BLOCK OR OPEN END BLOCK SHALL BE USED FOR FULL LENGTH AND DEPTH OF CMU BEAM AND SHALL BE SOLID GROUTED.
2. REFERENCE MASONRY BEAM SCHEDULE ON PLAN FOR ADDITIONAL INFORMATION.

S7954 CMU BEAM SECTION

NTS

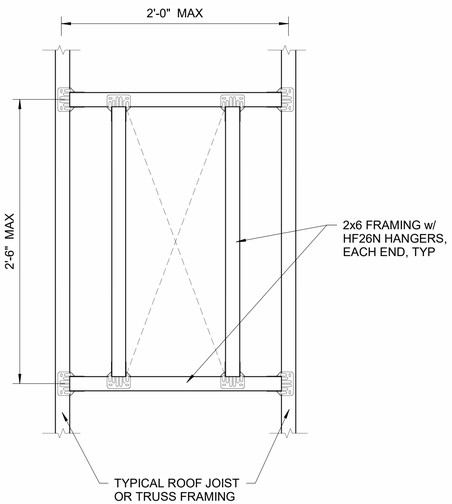


F'm=2000psi		BAR SIZE						
		#3	#4	#5	#6	#7	#8	#9
BAR COVER "K"	2"	24"	24"	34"	64"*	87"*	131"*	166"*
	2 1/2"	24"	24"	27"	51"*	69"*	105"*	132"*
	3"	24"	24"	24"	43"	58"*	87"*	110"*
	3 1/2"	24"	24"	24"	36"	50"*	75"*	95"*
	4"	24"	24"	24"	32"	43"*	65"*	83"*

NOTES:
1. THESE LAPS ARE REQUIRED IN ALL COLUMNS, WALLS AND BEAMS. LAP LENGTHS DO NOT APPLY TO HOOKS OR COLUMN TIES.
2. THE BAR COVER DISTANCES, K, SHALL BE TAKEN AS THE LEAST DIMENSION AS SHOWN HERE.
3. FOR BAR COVER DISTANCES, K, NOT SHOWN CONTACT EOR.
4. MINIMUM YIELD STRENGTH OF REINFORCEMENT; fy = 60,000psi.
5. MECHANICALLY SPLICE BARS GREATER THAN #9.
6. *NOT ALLOWED AS VERT REINF IN LOW LIFT GROUTED WALLS.

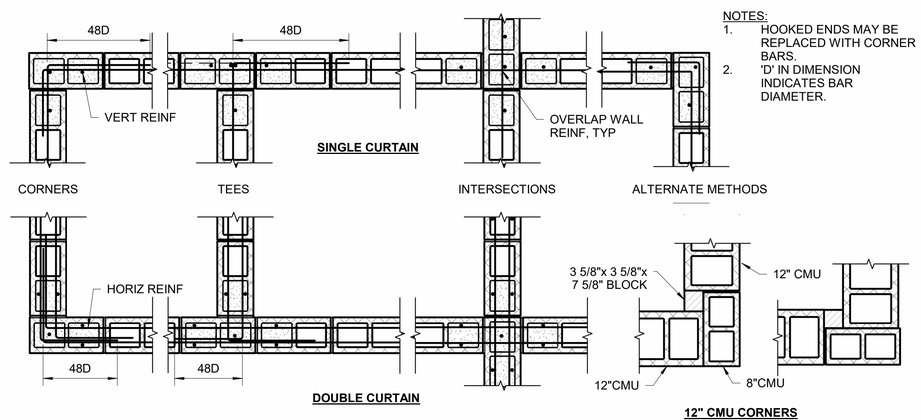
S7955 CMU MINIMUM BAR LAP LENGTHS

NTS



S7523 TYPICAL SMALL OPENING IN ROOF

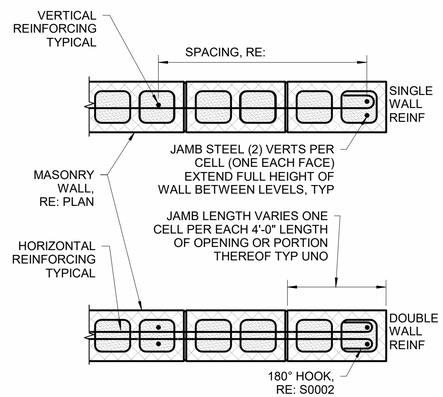
NTS



NOTES:
1. HOOKED ENDS MAY BE REPLACED WITH CORNER BARS.
2. 'D' IN DIMENSION INDICATES BAR DIAMETER.

S7952 CMU REINF AT WALL INTERSECTIONS

NTS



S7953 CMU REINFORCING

NTS

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79041PE
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OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

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City of PENDLETON

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VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001

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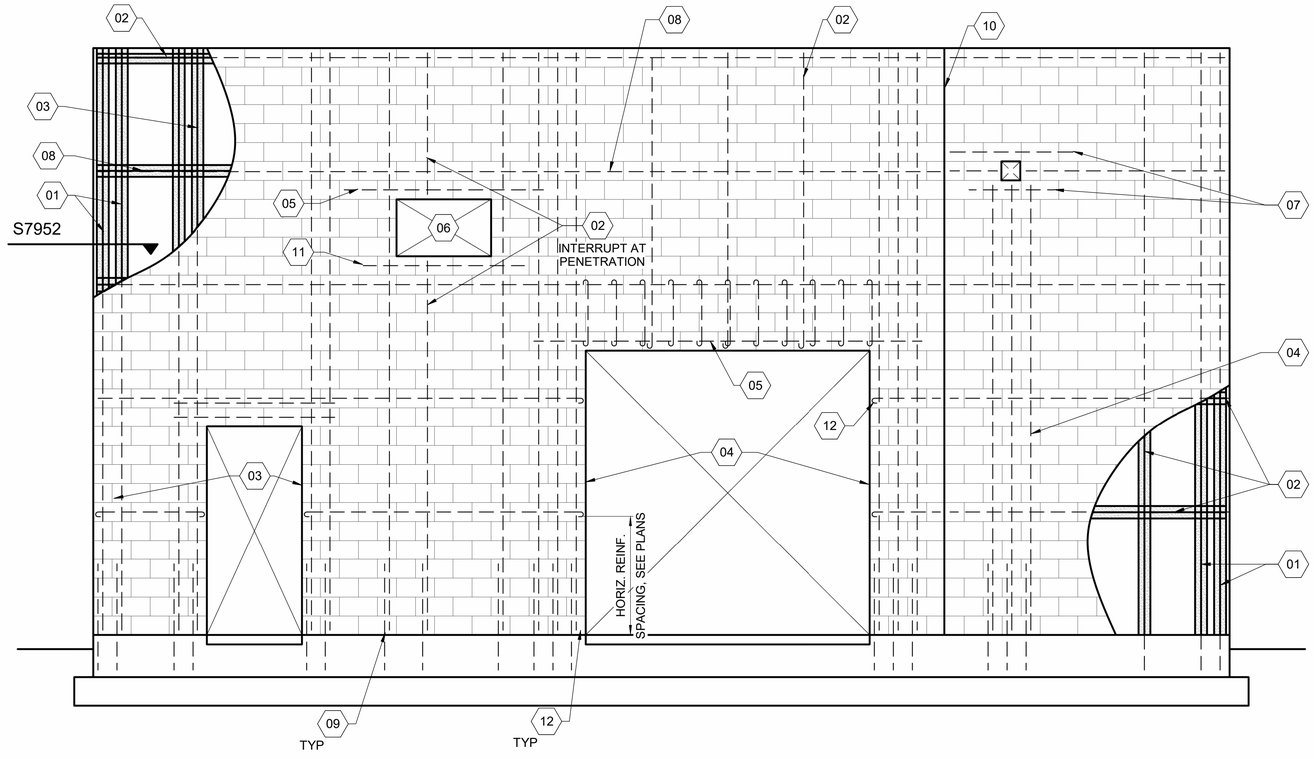


KEYNOTES:

01	CMU WALL INTERSECTION REINFORCING, RE: S7952
02	CMU WALL REINFORCING, RE: S7953
03	CMU HEADER& JAMB REINFORCING, RE: PLANS & S7953
04	PIER REINFORCING, RE: PLAN.
05	CMU BOND BEAM REINFORCING, RE: PLAN & S7954
06	CMU REINFORCING AT WALL PENETRATION, RE: S7954

KEYNOTES:

07	CMU GIRDER JOIST/POCKET WITH REINFORCING, RE: DETAILS
08	CMU BOND BEAM CONT AT ROOF DECK BEARING, RE: DETAILS
09	VERTICAL DOWEL TO FOUNDATION TO MATCH WALL REINF.
10	VERTICAL WALL CONTROL JOINT, RE: S7957
11	(2) #5 BELOW OPENING EXTENDED 24" PAST FACE OF OPENING.
12	TERMINATE HOR REINF WITH STANDARD HOOK AT OPENINGS.

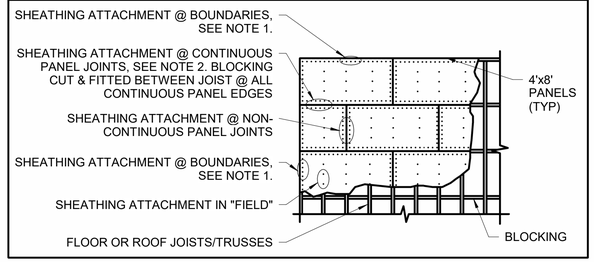
NOTES:

1. WALL HEIGHT, OPENINGS, & LAYOUT IS SCHEMATICALLY AND INTENDED FOR REINFORCEMENT PURPOSES ONLY. COORDINATE WITH RELEVANT DISCIPLINES FOR SPECIFIC WALL CONSTRUCTION.
2. ALL CMU REINFORCING TO BE SOLID GROUTED FOR FULL LENGTH OF BAR PLACEMENT.
3. ALL SPECIFIED REINFORCEMENT IS IN ADDITION TO CMU WALL REINFORCING.

S7956 STANDARD CMU WALL ELEVATION ASSEMBLY

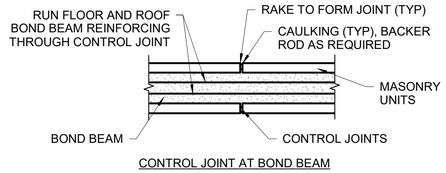
NTS

1. BOUNDARIES EXIST AT ALL DIAPHRAGM-SHEAR WALL INTERFACES & ALONG ALL STRUCTURAL ELEMENTS THAT TRANSFER DIAPHRAGM FORCES INTO THOSE WALLS.
2. THIS JOINT DETERMINES IF THE DIAPHRAGM IS BLOCKED OR UNBLOCKED.
3. SHEATHING ORIENTATION: LONG DIRECTION(STRONG AXIS) PERPENDICULAR TO FRAMING & SHORT DIRECTION (WEAK AXIS) PARALLEL TO FRAMING.
4. SPECIFIED NAILS ARE COMMON & SHALL CORRESPOND TO THE FOLLOWING DIA & LENGTHS: (16d -0.162"Ø & 3-1/2" LONG; 10d-0.148" Ø & 3" LONG; 8d-0.0131" Ø & 2-1/2" LONG), OTHERWISE CONTACT EOR. USING NAILS OTHER THAN THOSE SPECIFIED MAY RESULT IN THE DEMOLITION OF WORK & FRAMING TO BE REPLACED.
5. SHEATHING ATTACHMENT NO CLOSER THAN 3/8" FROM PANEL EDGES.
6. FOR SHEATHING ATTACHMENT TYPE, SIZE AND SPACING; RE: PLAN
7. FLOOR SHEATHING NAILED AND GLUED TO SUPPORTS.

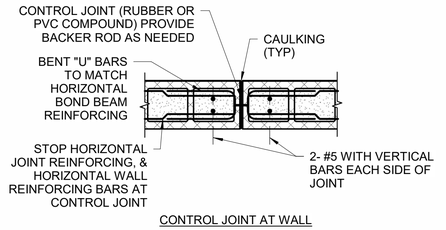


S8100 WOOD DIAPHRAGM ATTACHMENT

NTS



CONTROL JOINT AT BOND BEAM



CONTROL JOINT AT WALL

S7957 MASONRY CONTROL JOINTS

NTS

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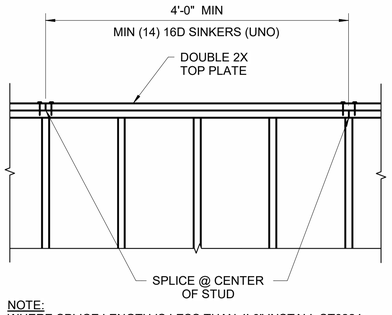
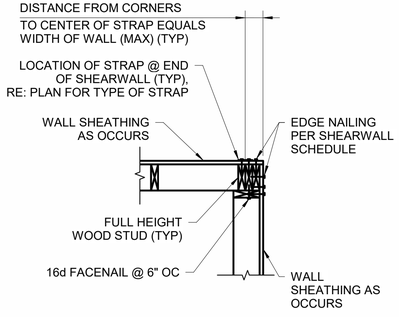


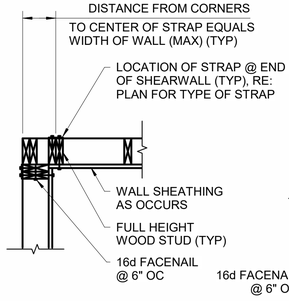
NOTE:
WHERE SPLICE LENGTH IS LESS THAN 4'-0" INSTALL ST6224 STRAP @ PLATE SPLICES. STRAPS ARE NOT REQUIRED WHERE ONE OF THE PLATES IS CONTINUOUS FOR @ LEAST 4'-0" IN EACH DIRECTION.

S8103 TOP PLATE SPLICE

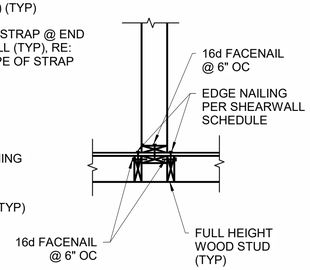
NTS



EXTERIOR SHEATHING @ CORNERS



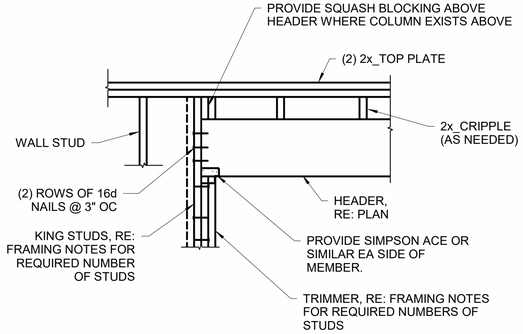
INTERIOR SHEATHING @ CORNERS

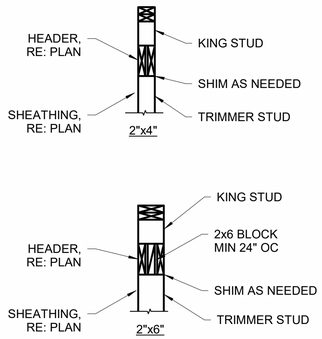


INTERIOR SHEATHING @ WALL INTERSECTION

S8105 TYPICAL SHEAR SHEATHING @ WALL INTERSECTION

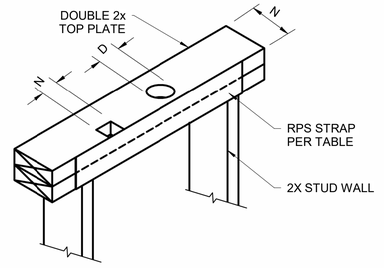
NTS





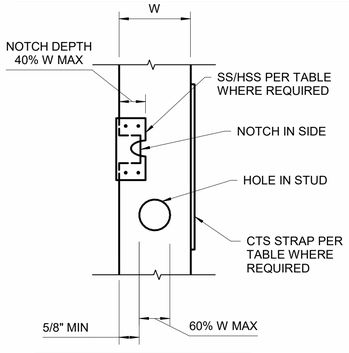
S8106 TYPICAL HEADER

NTS



NOTES:
1. USE RPSZ FOR SILL PLATE.
2. CENTER STRAPS @ NOTCH OR HOLE.
3. WHERE ROOF TRUSS OR FLOOR JOIST IS BEARING WITHIN STUD BAY OF THE HOLE OR NOTCH, INSTALL AN ADDITIONAL STUD DIRECTLY BELOW THE TRUSS OR JOIST UNLESS NO RPS STRAP IS REQUIRED OR WHERE EXISTING STUD FACE IS WITHIN 3" OR TRUSS OR JOIST FACE.
4. NOTCHES & HOLES MUST BE SEPARATED BY 2"xD" OR 2"xN".
5. WHERE MULTIPLE HOLES ARE LOCATED ADJACENT TO EACH OTHER, THE STRAP REPAIR MAY BE w/ A CS16 STRAP ON EACH SIDE OF THE UPPER PLATE. THE STRAP & NAILING SHALL EXTEND @ LEAST 9" BEYOND EACH END OF THE ENTIRE GROUP. NAILING BETWEEN THE HOLES IS NOT REQUIRED. NAILS IN THE CS16 STRAPS MAY BE N8'S OR N10'S.

2x4 PLATE	2x6 PLATE	2x4 OR 2x6 PLATE	
D	D	N (MAX DEPTH=W/2)	RPS STRAP
≤ 7/8"	≤ 1"	≤ 1"	NONE
≤ 1"	≤ 1-3/8"	≤ 2-1/2"	(1) RPS18
≤ 1-3/8"	≤ 2-1/8"	≤ 5-1/2"	(2) RPS18
≤ 2"	≤ 3-1/4"	≤ 12"	(2) RPS28



HOLE/NOTCH SCHEDULE		
% OF W	2x4 STUD	2x6 STUD
25%	3/4"	1-3/8"
40%	1-3/8"	2-1/8"
60%	2"	3-1/4"

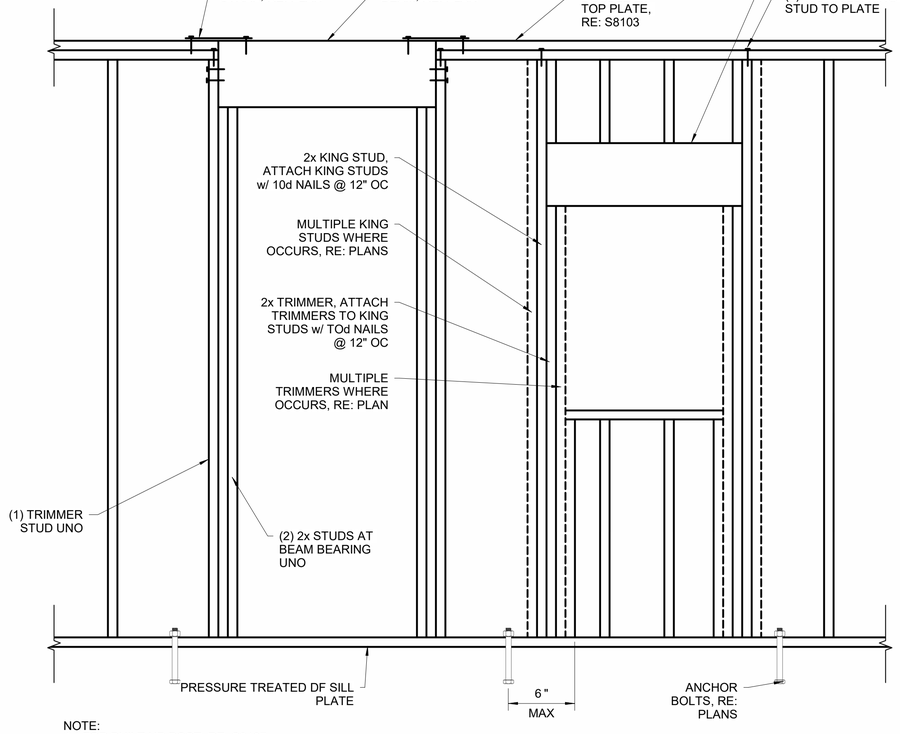
STUD HOLE REPAIR			
	2x4 STUD D	2x6 STUD D	REPAIR
NON-BEARING NON-SHEAR	≤ 2-3/4"	≤ 4-1/2"	(1) CTS 218 w/ 10d
BEARING OR SHEAR	≤ 3/4"	≤ 1-3/8"	(1) CTS 218 w/ 10d
BEARING OR SHEAR	≤ 2-3/4"	≤ 4-1/2"	(2) CTS 218 TWO SIDED w/ 10d

STUD NOTCH REPAIR					
	2x4 STUD NOTCH		2x6 STUD NOTCH		REPAIR
	DEPTH	LENGTH	DEPTH	LENGTH	
NON-BEARING NON-SHEAR	≤ 2-1/2"	≤ 4-1/2"	≤ 3-3/4"	≤ 4-1/2"	(1) CTS 218 w/ 10d
BEARING OR SHEAR	≤ 2-1/2"	≤ 2-1/2"	≤ 2-1/2"	≤ 2-1/2"	(1) CTS 218 w/ 10d
BEARING OR SHEAR	≤ 2-3/4"	≤ 4-1/4"	≤ 4-1/2"	≤ 4-1/4"	(2) CTS 218 TWO SIDED w/ 10d

NOTES:
1. HOLES & NOTCHES SHALL NOT OCCUR IN SAME STUD.
2. ALLOWABLE HOLES OR NOTCHES FOR NON BEARING, NON SHEAR, PARTITIONS, NO REPAIR IS REQUIRED.
3. WHERE HOLES & NOTCHES EXCEED ALLOWABLE, REPAIR PER TABLES.
4. ALL NOTCHES IN BEARING, SHEAR, OR EXTERIOR WALLS, REQUIRE REPAIRS.

S8101 NOTCH/HOLE REPAIR

NTS



NOTE:
1. FOR BUILT UP POST, RE: S8107

S8102 TYPICAL FRAMING

NTS

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER
79041PE
OREGON
JULY 2, 2011
BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

DRAWN: LDL | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

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SHEET NO. S-510

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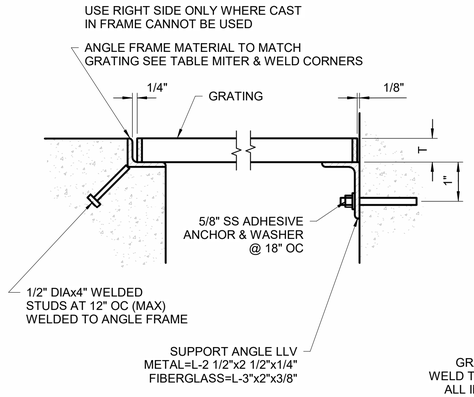
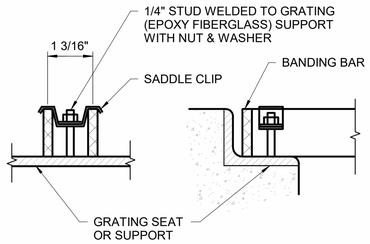




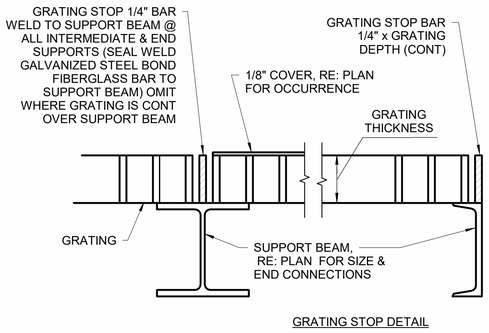
GRATING CLIP DETAIL

GRATING FRAMED TABLE SIZED TO MATCH GRATING (FOR FIBERGLASS USE CONTINUOUS PULTRUDED FIBERGLASS SEAT & ANCHOR)			
GRATING DEPTH T	FRAMED ANGLE (STEEL)	GRATING DEPTH T	FRAMED ANGLE (STEEL)
1"	1 3/4"x1 1/4"x 1/4" (1 1/4"x1 1/4"x1/4")	2"	*2 1/2"x2 1/2"x1/2"
1 1/4"	2"x1 1/2"x 1/4" (1 1/2"x1 1/2"x1/4")	2 1/8"	**2 1/2"x2 1/2"x1/4"
1 1/2"	1 3/4"x1 3/4"x1/4"	2 1/4"	2 1/2"x2 1/2"x1/4"
1 3/4"	2"x2"x1/4"	2 1/2"	3"x3"x1/2"

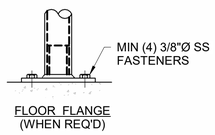
* OR USE 2 1/2" x 2 1/2" x 1/4" WITH 1/4" WITH 1/4" SHIM PLATE WELDED TO BOTTOM
** WITH 1/8" SHIM PLATE WELDED WITH BOTTOM

NOTES:
1. UNLESS INDICATED OTHERWISE, ALL GRATING SHALL BE FIBERGLASS.
2. GRATING DEPTH TO BE DETERMINED BY MANUFACTURER & APPROVED BY ENGINEER (UNO).
3. ALL ENDS & OPENINGS SHALL NOT EXCEED 80 LBS.
4. WEIGHT OF GRATING SECTION SHALL NOT EXCEED 80 LBS.
5. METAL BEARING SHALL BE DEPTH x3/16" OC CROSS BARS SHALL BE @ 4" OC.
6. PROVIDE A MINIMUM OF 4 CLIPS PER GRATING PANEL. APPX 4" FROM PANEL CORNERS. MAXIMUM CLIP SPACING @ 36' OC.
7. MATERIALS:
   - A. ALUMINUM GRATING - USE ALUMINUM ANGLE SUPPORTS & STAINLESS STEEL BOLTS & CLIPS.
   - B. FIBERGLASS GRATING - USE FIBER GLASS FOR ALL COMPONENTS EXCEPT DRILLED ANCHORS. ALL CUT EDGES SHOULD BE SEALED WITH RESIN BONDING - USE EPOXY ADHESIVE BONDING AGENT. ALL ENDS & OPENINGS SHALL BE BANDED.
   - C. FIBERGLASS GRATING WITH COVER - 1/8" FIBER GLASS GRITTED PL BONDED TO GRATING WHEN NOTED ON PLAN.

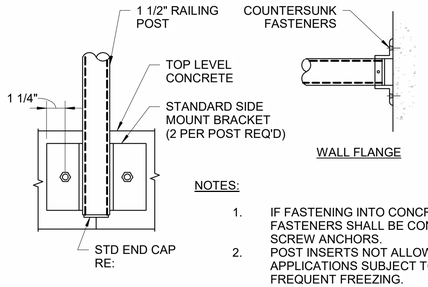
S8300 GRATING
NTS



GRATING STOP DETAIL



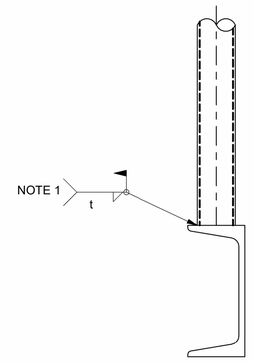
FLOOR FLANGE
(WHEN REQ'D)



SIDE-MOUNTING BRACKET

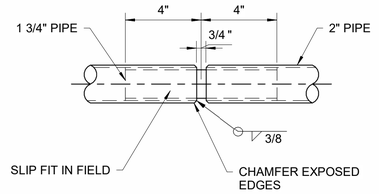
NOTES:
1. IF FASTENING INTO CONCRETE, FASTENERS SHALL BE CONCRETE SCREW ANCHORS.
2. POST INSERTS NOT ALLOWED IN APPLICATIONS SUBJECT TO FREQUENT FREEZING.
3. USE DETAIL "FLOOR FLANGE" IN LIEU OF POST INSERT WHERE WALL/CURB THICKNESS IS LESS THAN 8".
4. CONTRACTOR REQUIRED TO DESIGN RAILING SYSTEM PER SPECIFICATIONS.

S8585 RAILING, GUARDRAIL & HANDRAIL SUPPORT
NTS

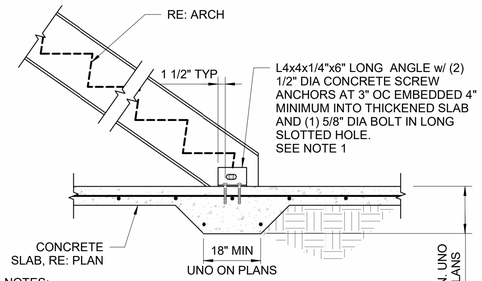


NOTE
1. t= GUARDRAIL POST THICKNESS - 1/16"

S8588 POST TO HANDRAIL BEAM
NTS

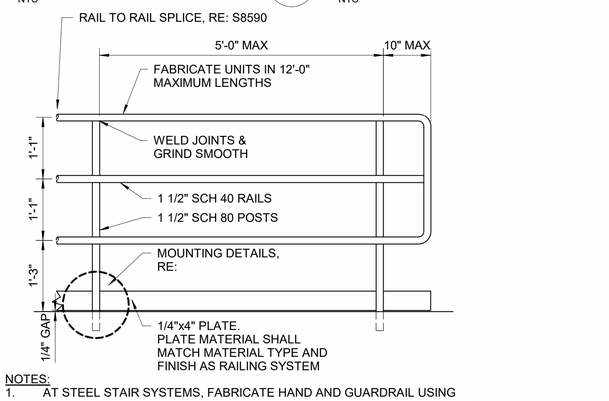


S8590 RAIL TO RAIL SPLICE
NTS



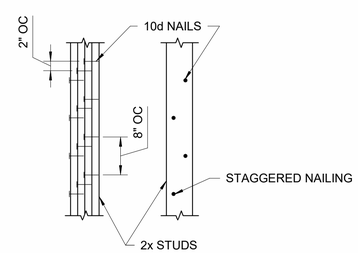
NOTES:
1. AT TYPICAL STRUCTURAL STEEL BEAMS USE ASTM A325-N BOLTS AND STANDARD CARBON STEEL CONCRETE SCREW ANCHORS.

S8543 STAIR STRINGER TO THICKENED SLAB
NTS



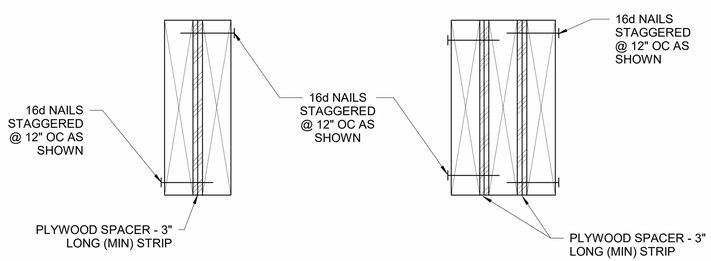
NOTES:
1. AT STEEL STAIR SYSTEMS, FABRICATE HAND AND GUARDRAIL USING ASTM A53 GRADE B STEEL PIPE AT STEEL GUARDRAIL SYSTEMS. PAINT RAILING PER SPECIFICATIONS.

S8580 GUARDRAIL
NTS

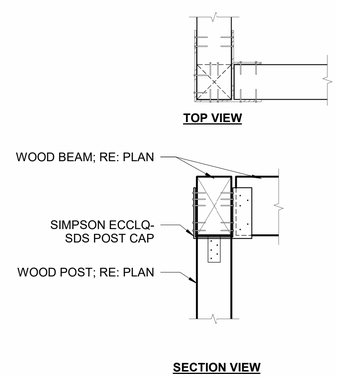


NOTES:
1. STUDS SHALL BE BUILT-UP AS REQUIRED FOR SOLID BEARING WITH KING STUD EACH SIDE TYP UNO.

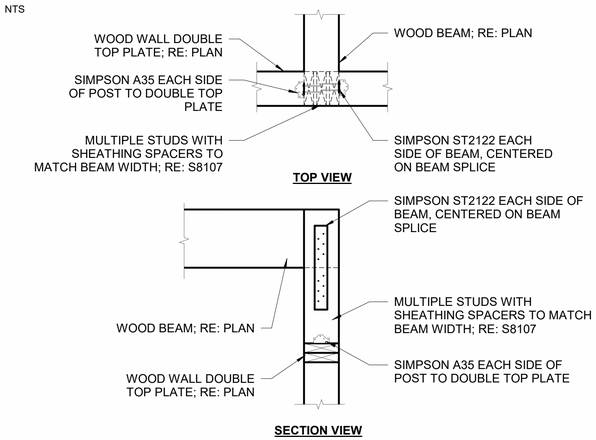
S8107 TYPICAL BUILT UP POST
NTS



S8109 BEAM CONSTRUCTION
NTS



S8120 WOOD BEAMS @ WOOD POST
NTS



S8121 ROOF BEAM @ WALL
NTS

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(509) 940-2080

STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 79041PE OREGON JULY 2, 2011 BRANDON KELLER
EXPIRES: 6-30-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

STRUCTURAL DETAILS

DRAWN: LDL | CHECK: CP

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | PAGE 93

SHEET NO. S-511

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PIPE AND FITTING SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		UNION
		CAP
		WYE
		45° BEND
		90° BEND
		SANITARY TEE
		P-TRAP
		WALL CLEANOUT

EQUIPMENT SYMBOLS

	MOP SINK
	EYE WASH
	EYE WASH W/ SHOWER
	FLOOR DRAIN
	FLOOR SINK
	HOSE RACK
	ROOF DRAIN
	TRENCH DRAIN
	'Y' STRAINER
	FLOOR CLEANOUT
	RECIRCULATION PUMP
	SUMP PUMP
	BUILDING CLEANOUT
	UTILITY SINK

VALVE SYMBOLS

DOUBLE LINE	SINGLE LINE	DESCRIPTION
		DOUBLE CHECK BACKFLOW PREVENTOR
		BALL
		REDUCED PRESSURE BACKFLOW PREVENTOR
		FLAPPER GATE
		THERMOSTATIC MIXING VALVE
		AIR RELEASE VALVE
		HOSE BIBB
		SWING CHECK / BACK WATER VALVE

LINE TYPES

	BELOW GRADE
	ABOVE GRADE
CW CW CW	COLD WATER
TW TW TW	TEPID WATER
HW HW HW	HOT WATER
SW SW SW	SOFT WATER
CA CA CA	COMPRESSED AIR
SA SA SA	SAMPLE LINE
DR DR DR	DRAIN
HWR HWR HWR	HOT WATER RETURN
PS PS PS	PRESSURIZED SEWER
SS SS SS	SANITARY SEWER
DIW DIW DIW	DEIONIZED WATER
V V V	VENT
GAS GAS GAS	GAS LINE
W1 W1 W1	POTABLE WATER
W2 W2 W2	NON-POTABLE WATER

ABBREVIATION TABLE

ADA	AMERICANS WITH DISABILITIES ACT
ARV	AIR RELEASE VALVE
AVB	ATMOSPHERIC VACUUM BREAKER
BFP	BACKFLOW PREVENTER
BV	BALL VALVE
CA	COMPRESSED AIR
CW	COLD WATER
DIW	DEIONIZED WATER
DR	DRAIN
DWV	DRAIN WASTE VENT
ED	EQUIPMENT DRAIN
ES	EMERGENCY SHOWER
EW	EYEWASH STATION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
HB	HOSE BIBB
HW	HOT WATER
HWR	HOT WATER RETURN
LAV	LAVATORY
MS	MOP SINK
NG	NATURAL GAS
NPT	NATURAL PIPE THREAD
PS	PRESSURIZED SEWER
RCP	RECIRCULATION PUMP
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
S	SINK
SA	SAMPLE LINE
SH	SHOWER
SP	SUMP PUMP
SS	SANITARY SEWER
TD	TRENCH DRAIN
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TW	TEPID WATER
TYP	TYPICAL
UR	URINAL
US	UTILITY SINK
V	VENT
VS	VENT STACK
VTR	VENT THRU ROOF
W1	POTABLE WATER
W2	NON-POTABLE WATER
WB	WASHER BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WTC	WATER COOLER
YH	YARD HYDRANT

GENERAL PLUMBING NOTES

1. ALL NOTES SPECIFIED HEREIN ARE TO BE COMPLETED OR ADHERED TO BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED IN THE PROJECT PLANS TO BE PERFORMED BY OTHER PARTIES.
2. SUBMIT ALL THE EQUIPMENT AND REQUIRED SHOP DRAWINGS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION 01 33 00.
3. ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL ADOPTED PLUMBING CODE, MANUFACTURER RECOMMENDATIONS AND PROJECT PLANS AND SPECIFICATIONS.
4. PLUMBING CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR HIS WORK UNDER THIS CONTRACT.
5. ALL PLUMBING SYSTEMS SHALL BE TESTED, INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION, RE: G-005 FOR MATERIAL TESTING REQUIREMENTS.
6. PLANS ARE DIAGRAMATIC. THE PLUMBING CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL PIPE, FITTINGS, HARDWARE, AND DEVICES ARE PROVIDED AND INSTALLED TO CREATE A COMPLETE AND OPERATING SYSTEM IN ACCORDANCE WITH APPLICABLE REGULATIONS.
7. LOCATIONS AND SIZES OF EXISTING PIPING HAVE BEEN DETERMINED FROM A REVIEW OF EXISTING DRAWINGS AND/OR SITE INSPECTION. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, INVERTS, SIZES, DIRECTION OF FLOW, ETC.
8. REFER TO SCHEDULES, DETAILS AND DIAGRAMS FOR PIPING, PIPE SIZES NOT INDICATED ON THE FLOOR PLANS.
9. NOT ALL PIPE SUPPORTS ARE SHOWN. THE PLUMBING CONTRACTOR IS RESPONSIBLE TO SUPPORT ALL PIPE, PLUMBING EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND LOCAL SEISMIC REQUIREMENTS.
10. ALL PIPE MATERIAL AND JOINTS SHALL MEET PROJECT SPECIFICATIONS AS IDENTIFIED ON THE PLANS AND REFERENCED IN THE PIPE SCHEDULE, RE: G-005.
11. ALL FLOOR AND TRENCH DRAINS ARE TO BE FURNISHED WITH AN APPROPRIATELY SIZED P-TRAP AND TRAP PRIMER; RE: P1012.
12. ALL DRAIN LINES TO BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
13. VENT AND DRAIN PIPING SHALL BE CAST IRON SOIL PIPE (1.B) BELOW FINISHED FLOOR AND SHALL TRANSITION TO PVC DWV (45.B) AT 6" AFF UNLESS OTHERWISE NOTED.
14. REVIEW CIVIL, ARCHITECTURAL, STRUCTURAL, PROCESS MECHANICAL, AND ELECTRICAL PLANS THOROUGHLY TO BECOME FAMILIAR WITH THIS PROJECT. THE PLUMBING CONTRACTOR IS RESPONSIBLE TO COORDINATE INTERCONNECTIONS FOR OTHER DISCIPLINE AS REQUIRED TO MAKE A COMPLETE AND OPERABLE SYSTEM.
15. ALL WORK SHALL COMPLY WITH THE MOST RECENT STATE ADOPTED EDITION OF IMC, IBC, UPC, AND NEC, AND APPLICABLE CODES OF LOCAL JURISDICTION.
16. MECHANICAL PIPING CONTRACTOR SHALL GUARANTEE THAT ALL MATERIAL FURNISHED BE ACCEPTABLE IN ALL RESPECTS AND, IF NOT, WILL REPLACE SAME IMMEDIATELY. ALL MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
17. COORDINATE INSTALLATION WITH THE WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND OBTAIN RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN THAT AREA. DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS SHALL BE CORRECTED AT NO ADDITIONAL EXPENSE TO OWNER. IMMEDIATELY NOTIFY ENGINEER OF CONDITIONS IN CONFLICT WITH THE PLANS.
18. PLUMBING PIPING SHALL NOT BE ROUTED OVER ELECTRICAL EQUIPMENT, PRIOR APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND THE PROJECT ENGINEER.
19. USE THE MOST STRINGENT MATERIAL SPECIFICATIONS SHOWN IN PROJECT SPECIFICATION BOOK WHEN THEY ARE DIFFERENT THAN SHOWN ON PLAN SHEETS.
20. PROVIDE SEAL BETWEEN WALLS AND PLUMBING FIXTURE CONNECTIONS NOT SHOWN ON PLANS.
21. LOCATE AND LABEL ALL VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE ACCESSIBLE THRU CEILING. SEE DRAWINGS FOR LOCATIONS.
22. PROVIDE PIPING EQUIPMENT AND MATERIALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODE REGULATIONS AND STANDARDS, AUTHORITIES HAVING JURISDICTION, OR AS OTHERWISE RECOMMENDED OR DIRECTED BY MANUFACTURER.
23. COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEM INSTALLATIONS.
24. COORDINATE ALL FIXTURES, EQUIPMENT AND ROUGH-IN CONNECTIONS LOCATIONS AND SIZES WITH ARCHITECTURAL DRAWINGS, OWNER AND EQUIPMENT SUPPLIER PRIOR TO INSTALLATION.
25. REFER TO ARCHITECTURAL DRAWINGS AND INTERIOR ELEVATIONS FOR EXACT LOCATIONS, FIXTURE HEIGHTS AND ACCESSIBILITY REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR PROJECT PHASING REQUIREMENTS.
26. PROVIDE SEISMIC RESTRAINTS FOR ALL PIPE AND EQUIPMENT AS RECOMMENDED IN SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL EQUIPMENT", LATEST EDITION.
27. ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE. ALL WALLS IN WHICH WATER OR WASTE LINES ARE INSTALLED MUST BE PATCHED TO MATCH EXISTING AFTER LINES ARE INSTALLED CONTRACTOR SHALL. PROVIDE FREEZE PROTECTION FOR WATER PIPING AS NEEDED.
28. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SAW CUTTING, PATCHING AND REPAIR OF ALL WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR THE PERFORMANCE OF HIS WORK. PATCHING AND REPAIR SHALL MATCH EXISTING ADJACENT SURFACES OR MATCH THE QUALITY OF ADJACENT NEW WORK SURFACES.
29. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING REQUIRED FOR BELOW GRADE / SLAB WORK, ASSOCIATED WITH HIS PORTION OF WORK.
30. REMOVAL OF PIPING, EQUIPMENT AND FIXTURES SHALL INCLUDE ALL MISCELLANEOUS APPURTENANCES SUCH AS HANGERS, SUPPORTS, WIRING, INSULATION, ETC. THAT WILL BECOME OBSOLETE UNDER THE NEW WORK. PIPING SHALL BE REMOVED TO IT'S NEAREST MAIN AND CAPPED.
31. ALL PIPING SHALL BE REMOVED BACK TO ACTIVE MAINS AND CAPPED, OR REMOVED BACK TO POINTS OF CONNECTION IN NEW WORK. INACCESSIBLE PIPING TO BE ABANDONED, SHALL BE DISCONNECTED FROM ACTIVE SYSTEMS AND CAPPED OR PLUGGED IN CONCEALED LOCATIONS.
32. ALL ROOF REPAIR WORK SHALL BE ACCOMPLISHED BY A CONTRACTOR AUTHORIZED TO WORK ON THE TYPE OF ROOF. REPAIR WORK SHALL NOT COMPROMISE THE INTEGRITY OF THE ROOF AND ANY EXISTING WARRANTY.
33. PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOBSITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COST RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.
34. WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS. THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC, OR STRICTER PROVISION SHALL GOVERN. IF ANY DISCREPANCIES ARE DISCOVERED ON THE PLANS OR BETWEEN THE PLANS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND OBTAIN CLARIFICATION OF THE INTENT FROM THE ENGINEER PRIOR TO CONSTRUCTION OR INSTALLATION OF PROPOSED IMPROVEMENTS.

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REGISTERED PROFESSIONAL ENGINEER
101193PE
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OREGON
SEP. 13, 2021
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

PLUMBING NOTES & SYMBOLS

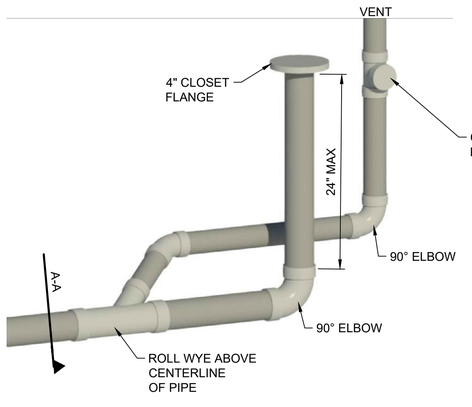
DRAWN: JVR | CHECK: DW

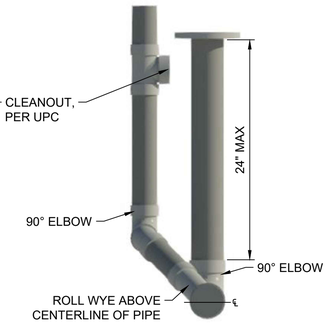
VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 94

FIGURE NO. MP-001

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1105_PLUMB\OPS BUILDING\MP-001 - PLUMBING NOTES & SYMBOLS - OPS.DWG
LAST SAVED: 4/20/2026 10:39 AM PRINTED: 4/27/2026 1:57 PM

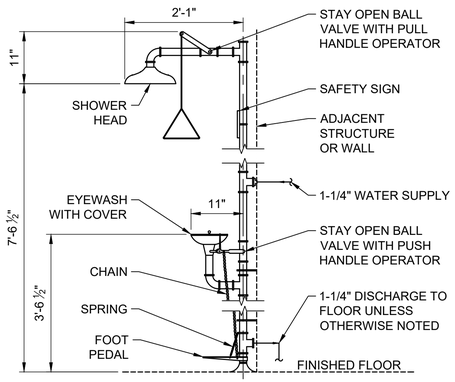




SECTION A-A

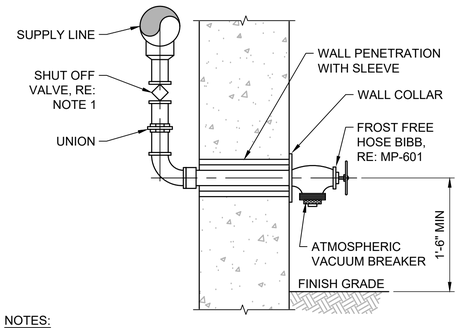
P2005 HORIZONTAL FIXTURE DRAIN, WATER CLOSET

N.T.S.



P3002 EMERGENCY SHOWER AND EYEWASH

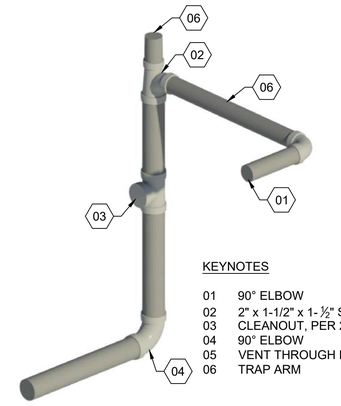
3/4" = 1'-0" 0 1' 2' 3'



NOTES:
1. ALL HOSE VALVES TO BE CONTROLLED BY INDIVIDUAL SHUT-OFF VALVES (BALL OR PLUG VALVES) EXCEPT WHERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES HOSE VALVES ONLY.
2. FOR SIZE AND LOCATION SEE DRAWINGS.
3. PROVIDE WARNING SIGN WHEN USED FOR NON-POTABLE WATER.

P3007 HOSE BIBB TYPE D

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



KEYNOTES

01 90° ELBOW
02 2" x 1-1/2" x 1- ½" SAN TEE
03 CLEANOUT, PER 2018 UPC
04 90° ELBOW
05 VENT THROUGH ROOF
06 TRAP ARM

P2004 VERTICAL FIXTURE DRAIN, TYPICAL

N.T.S.

P1009 WALL CLEANOUT

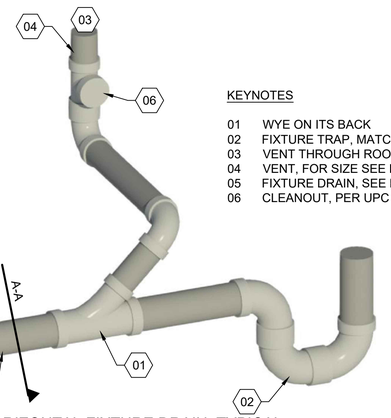
1-1/2" = 1'-0" 0 1/2' 1' 1-1/2'

KEYNOTES:

01 CLOSEST COLD WATER LINE TO FIXTURE
02 AUTOMATIC TRAP PRIMER, WATTS MODEL LFTP300T OR APPROVED EQUAL. MOUNT TRAP PRIMER IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL IF CONCEALED IN A WALL.
03 3/8" COPPER OR PEX TUBING
04 PENETRATION THROUGH FLOOR SLAB. FOAM WRAP SLEEVE AND PROTECT PIPE AT PENETRATION.
05 SLOPE PRIMER LINE SO TAILPIECE CONNECTION IS THE LOW POINT.
06 BALL VALVE
07 CONNECT PRIMER LINE TO TAIL PIECE PRIMER ADAPTER OR FLOOR DRAIN W/ BUILT IN PRIMER TAP.

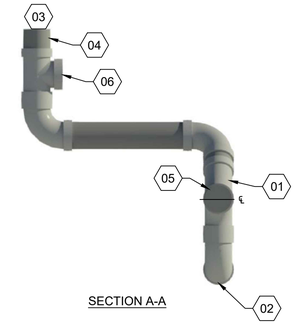
P1012 TRAP PRIMER

N.T.S.



KEYNOTES

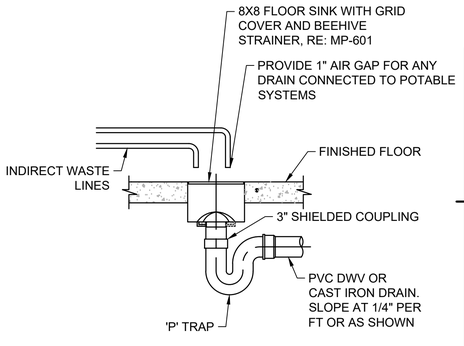
01 WYE ON ITS BACK
02 FIXTURE TRAP, MATCH DRAIN SIZE
03 VENT THROUGH ROOF
04 VENT, FOR SIZE SEE PLANS
05 FIXTURE DRAIN, SEE PLANS
06 CLEANOUT, PER UPC



SECTION A-A

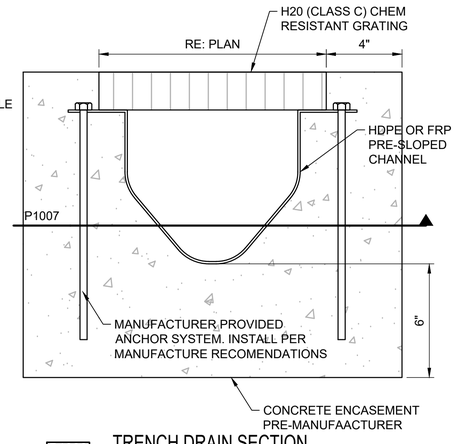
P2001 HORIZONTAL FIXTURE DRAIN, TYPICAL

N.T.S.



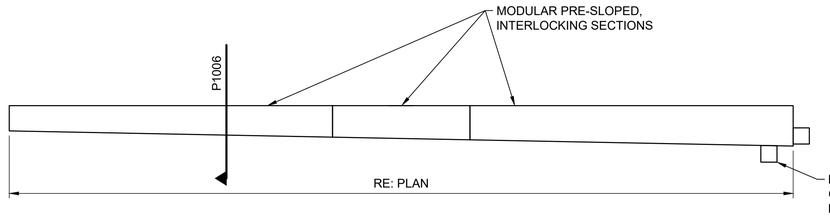
P1003 FLOOR SINK

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



P1006 TRENCH DRAIN SECTION

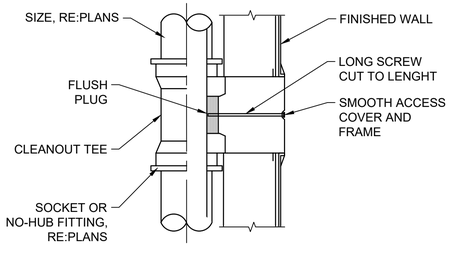
3" = 1'-0" 0 3" 6" 9"



NOTES:
1. PROVIDE HIGH DENSITY POLYETHYLENE (HDPE) OR FIBERGLASS REINFORCED PLASTIC (FRP) CHANNEL SECTIONS. REFERENCE SPECIFICATION SECTION 22 00 00 - PLUMBING GENERAL FOR MANUFACTURER'S.
2. GRATING SHALL HAVE A MINIMUM OF AN H-20 LOAD RATING. ALL GRATING SHALL BE CHEMICALLY RESISTANT.
3. PROVIDE GRATE LOCK DOWN ASSEMBLY AND HARDWARE.
4. CONCRETE ENCASE PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

P1007 TRENCH DRAIN SECTION 2

N.T.S.



P1008 WALL CLEANOUT - WITH ACCESS COVER

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

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

PLUMBING DETAILS

DRAWN: JVR CHECK: DW

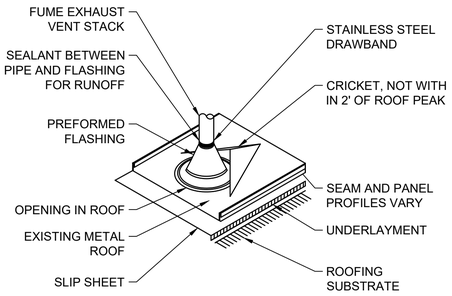
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 95

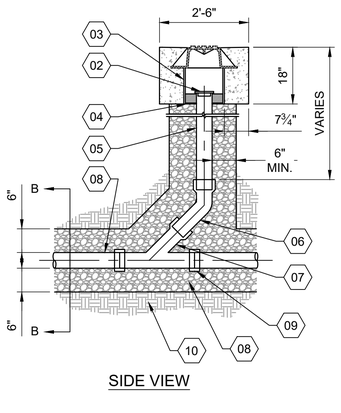
FIGURE NO. MP-501

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-105_PLUMB\OPS BUILDING\MP-501 DETAILS - OPS.DWG LAST SAVED: 4/27/2026 1:45 PM PRINTED: 4/27/2026 1:58 PM

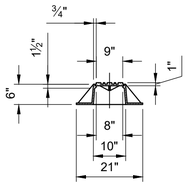


NOTES:
1. VENT STACK AND FLASHING DETAIL TO CONFORM TO NRCA ROOFING AND WATERPROOFING A-MTL-12.

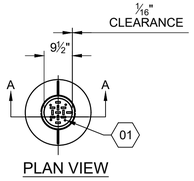
P6005 ROOF FLASHING
1-1/2" = 1'-0"



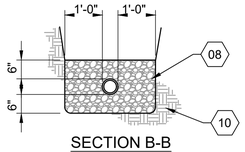
SIDE VIEW



SECTION A-A CAST IRON RING & COVER



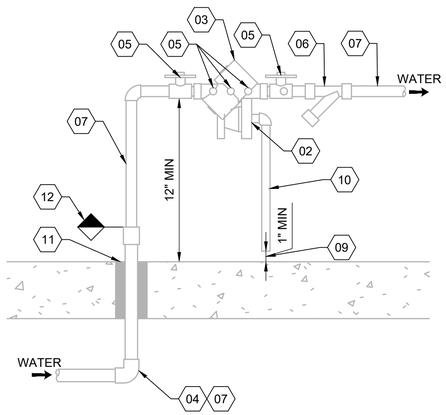
PLAN VIEW



SECTION B-B

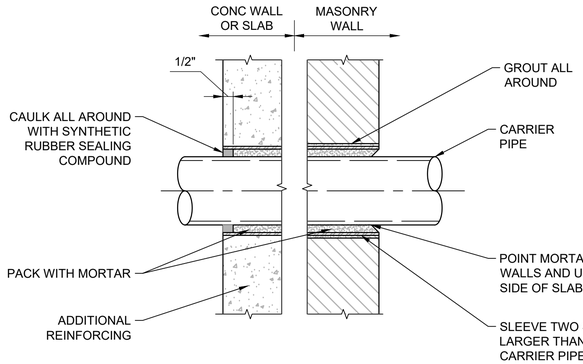
KEYNOTES:
01 (4) 1" DIA. HOLES ON 3½" RADIUS.
02 MECHANICAL PLUG.
03 12" DIA.x1'-0" PVC, DIP OR CP.
04 FIBER JOINT MATERIAL.
05 PVC ASTM 3034.
06 45° BENDS.
07 "Y" FITTINGS.
08 PIPE BEDDING
09 MISSION COUPLER OR APPROVED EQUAL.
10 UNDISTURBED MATERIAL.

P7002 STANDARD TRAFFIC RATED CLEAN OUT
N.T.S.



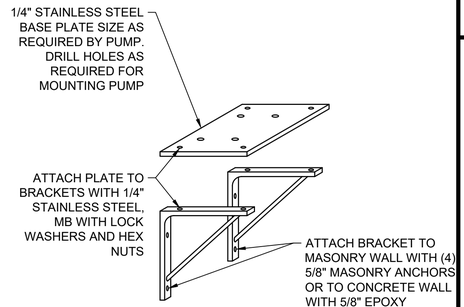
KEYNOTES
01 TEST PORTS, TYPICAL
02 DRIP NIPPLE (POSITION VENT PORTS SO DRAINAGE FALLS INTO DRAIN)
03 REDUCE PRESSURE BACKFLOW PREVENTER
04 90 DEGREE ELBOW
05 BALL VALVE WITH TEST PORT
06 Y-STRAINER
07 WATER SUPPLY LINE PER PLAN & PIPE SCHEDULE
09 1" MIN AIR GAP BETWEEN DRIP PIPE AND ADJUSTABLE FLOOR
10 DRAIN PIPE, ROUTED TO AN APPROVED LOCATION
11 FLOOR SLEEVE
12 MATERIAL CHANGE

P5001 TYP BACKFLOW PREVENTER
1-1/2" = 1'-0"



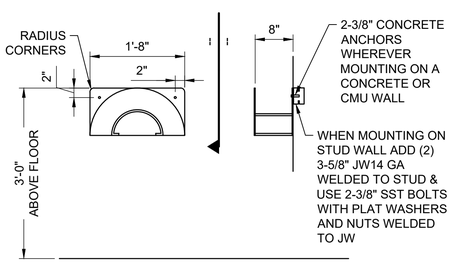
P6002 SLEEVE INSTALLATION THROUGH DRY WALL AND FLOOR SLABS
1/16" = 1'-0"

NOTES:
1. 6" Ø SLEEVES AND SMALLER SHALL BE SCHEDULE 40 STEEL PIPE OR SCHEDULE 80 PVC PIPE.
2. SLEEVES LARGER THAN 6" Ø SHALL BE 1/4" THICK STEEL PIPE.
3. SLEEVE SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
4. SLEEVES FOR ELECTRICAL CONDUIT SHALL BE SCHEDULE 80 PVC.



NOTES:
1. MOUNT APPROXIMATELY 4'-0" ABOVE FLOOR.
2. B-LINE B3067 OR EQUAL WELDED STAINLESS STEEL BRACKETS (AS REQUIRED BY MANUFACTURER)

P6004 SMALL PUMP SUPPORT
N.T.S.

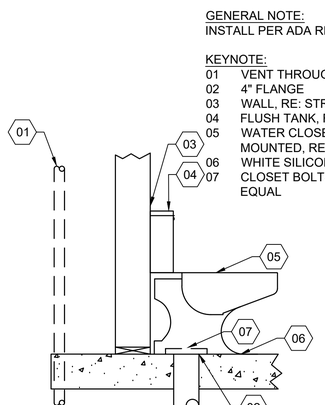


NOTES:
1. CONSTRUCT HOSE RACK OF 10 GA MILD STL CONT WELD ALL SEAMS AND HOT DIP GALVANIZE AFTER FABRICATION.
2. PROVIDE WARNING SIGN AT EACH HOSE RACK.

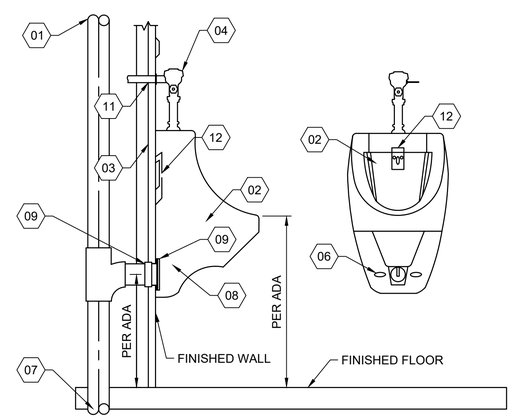
P3010 HOSE RACK
3/4" = 1'-0"

GENERAL NOTE:
INSTALL PER ADA REQUIREMENTS

KEYNOTE:
01 VENT THROUGH ROOF; RE: PLANS
02 4" FLANGE
03 WALL, RE: STRUCTURAL PLANS
04 FLUSH TANK, RE: MP-601
05 WATER CLOSET, FLOOR MOUNTED, RE: MP-601
06 WHITE SILICONIZED CAULKING
07 CLOSET BOLTS AND WAX RING OR EQUAL



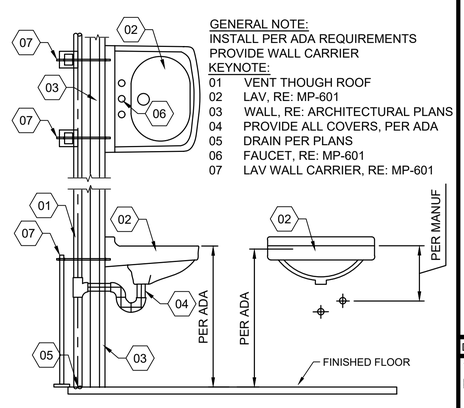
P3012 TYPICAL WATER CLOSET; FLOOR MOUNT
N.T.S.



GENERAL NOTE:
INSTALL PER ADA REQUIREMENTS PROVIDE WALL CARRIER

KEYNOTE:
01 VENT THROUGH ROOF
02 SST URINAL, RE: MP-601
03 WALL, RE: ARCHITECTURAL PLANS
04 FLUSHOMETER WITH SENSORS, RE: SCHEDULES
06 SST CAPS
07 DRAIN PER PLANS
08 INTERNAL TRAP
09 2" MIP ADAPTER
10 URINAL FLANGE KIT
11 ¾" WATER SUPPLY, RE:PLANS
12 ANCHOR PLATE SECURED TO WALL. INSTALL PER MANUFACTURER

P3014 TYPICAL URINAL
N.T.S.



GENERAL NOTE:
INSTALL PER ADA REQUIREMENTS
PROVIDE WALL CARRIER

KEYNOTE:
01 VENT THOUGH ROOF
02 LAV, RE: MP-601
03 WALL, RE: ARCHITECTURAL PLANS
04 PROVIDE ALL COVERS, PER ADA
05 DRAIN PER PLANS
06 FAUCET, RE: MP-601
07 LAV WALL CARRIER, RE: MP-601

P3015 TYPICAL LAVATORY: WALL HUNG
N.T.S.

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1060 Jadwin Avenue, Suite 375
Richland WA, 99352
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PLUMBING DETAILS

DRAWN: --- CHECK: ---

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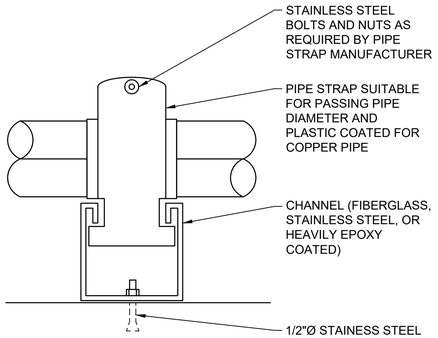
1-1/2 Inches

PROJECT NO. 225096-001 96

FIGURE NO. MP-502

J:\225096-001 - PENDLETON WWTRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1105_PLUMB\OPS BUILDING\MP-501 DETAILS - OPS.DWG LAST SAVED: 4/27/2026 1:45 PM PRINTED: 4/27/2026 1:58 PM

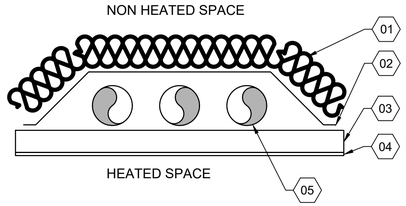


P9001 PIPE SUPPORT TYPE 'E'

N.T.S.

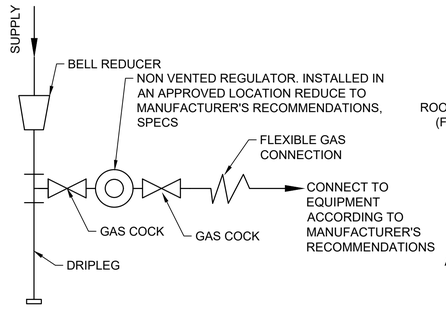
KEYNOTES

1 ATTIC INSULATION; RE: ARCH PLANS
2 4 MIL PLASTIC TENT, SECURE WITH WOOD STAPLES
3 TRUSS
4 CEILING BOARD
5 WATER LINES, RE: PLANS



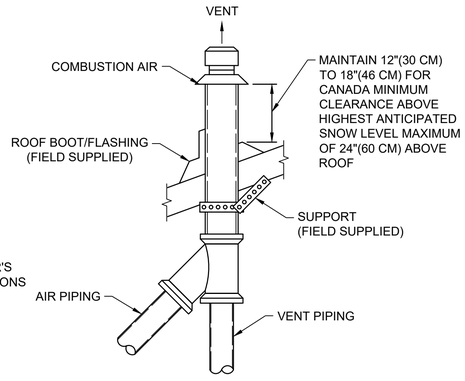
P9002 PIPE INSULATION - ATTIC SPACE

N.T.S.



P8002 TYPICAL GAS CONNECTION

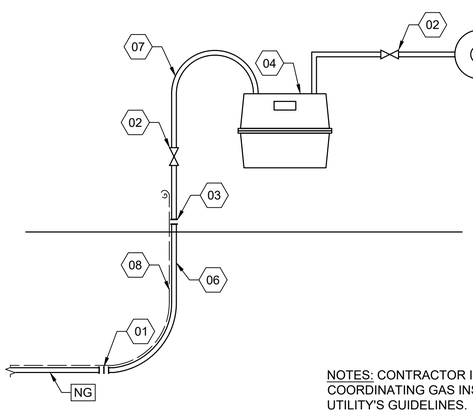
N.T.S.



GAS APPLIANCE CONCENTRIC VENT THROUGH ROOF

P8003 TYP

N.T.S. REV: 6/14/19



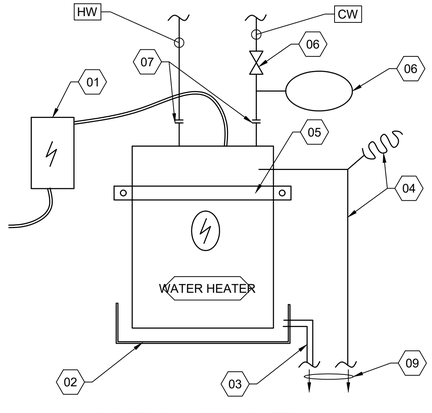
XX KEYNOTES

01 COMPRESSION FITTING
02 GAS COCK
03 UNION
04 METER, PROVIDED BY UTILITY COMPANY. REFER TO GAS UTILITY COMPANY METER INSTALLATION DETAIL FOR MORE INFORMATION.
05 GAS REGULATOR. REDUCE PRESSURE TO 2 PSI, VENT PER MANUFACTURER'S REQUIREMENTS
06 GAS RISER
07 SERVICE
08 TRACER WIRE
09 SEE PLANS FOR CONTINUATION

NOTES: CONTRACTOR IS RESPONSIBLE FOR PAYING FOR AND COORDINATING GAS INSTALLION IN ACCORDANCE WITH THE GAS UTILITY'S GUIDELINES.

P8006 GAS METER

N.T.S.



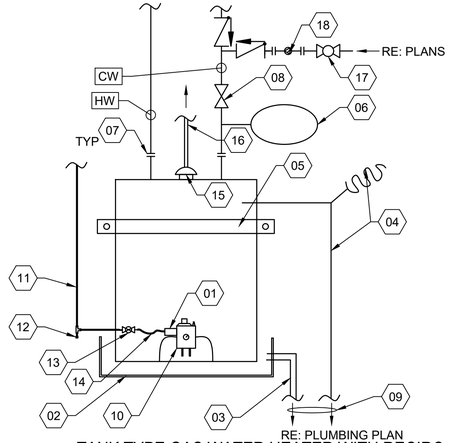
KEYNOTES

01 ELECTRICAL DISCONNECT, RE: ELECTRICAL
02 WATER HEATER PAN
03 WATER HEATER PAN DRAIN
04 TEMPERATURE & PRESSURE RELIEF VALVE & DRAIN
05 SEISMIC STRAP
06 THERMAL EXPANSION TANK
07 DI-ELECTRIC UNIONS
08 ISOLATION VALVE, MATCH PIPE SIZE
09 ROUTE DRAINS TO AN APPROVED LOCATION

NOTE:
1. PROVIDE MANUFACTURERS APPROVED HANGERS AND STRUCTURAL BRACING FOR TO SUPPORT PER MANUFACTURER REQUIREMENTS.
2. REFERENCE PLANS AND SCHEDULES FOR PIPE SIZES AND MATERIALS

P3016 ELECTRIC WATER HEATER

N.T.S.



KEYNOTES

01 GAS CONNECTION
02 WATER HEATER PAN
03 WATER HEATER PAN DRAIN
04 TEMPERATURE & PRESSURE RELIEF VALVE & DRAIN
05 SEISMIC STRAP
06 THERMAL EXPANSION TANK
07 DI-ELECTRIC UNIONS
08 ISOLATION VALVE, 1-1/4"
09 ROUTE DRAINS TO AN APPROVED LOCATION
10 GAS REGULATOR
11 BLACK IRON STEEL GAS PIPE, RE:PLANS
12 ½" DRIP CAP
13 ½"GAS COCK
14 ½" GAS FLEX
15 VENT FLUE CAP
16 FLUE PIPE CLASS B SST, SIZE PER W/H MANUFACTURER REQUIREMENTS
17 BRASS BALL VALVE (THREADED OR SWEAT)
18 HOT WATER RECIRC PUMP; RE: MP-601

P3019 TANK TYPE GAS WATER HEATER WITH RECIRC PUMP

N.T.S.

KELLER ASSOCIATES
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REGISTERED PROFESSIONAL ENGINEER
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OREGON
SEP. 13, 2021
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

PLUMBING DETAILS

DRAWN: --- CHECK: ---

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 97

FIGURE NO. MP-503

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\05_PLUMB\OPS BUILDING\MP-501 DETAILS - OPS.DWG LAST SAVED: 4/27/2026 1:45 PM PRINTED: 4/27/2026 1:58 PM

PLUMBING FIXTURE SCHEDULE

ID	DESCRIPTION	DRAIN INCH	VENT INCH	TRAP INCH	TEPID WATER INCH	COLD SUPPLY INCH	HOT SUPPLY INCH	MAKE	MODEL	NOTES
DB-ADM-71	DRYER BOX	-	4	-	-	-	-	EVERBILT	MDRBHD	WITH 4" DRYER DUCTWORK AND DRYER VENT THROUGH ROOF
DF-ADM-11	WATER COOLER	2	1-1/2	2	-	1/2	-	ELKAY	LZSTL8WSAP	WITH BOTTLE FILLER, WATER COOLER, FILTER INCLUDE MANUFACTURER'S STANDARD CANE APRON
DF-EAB-01	WATER COOLER	2	1-1/2	2	-	1/2	-	ELKAY	LZS8WSSP	WITH BOTTLE FILLER, WATER COOLER, FILTER INCLUDE MANUFACTURER'S STANDARD CANE APRON
ES-STG-11	EMERGENCY SHOWER	-	-	-	1-1/4	-	-	HAWS	AXION 8300-8309	COMBINATION DRENCH SHOWER AND EYE WASH INSTALL WITH EYEWASH DUST COVER
FS-STG-11	FLOOR SINK	3	2	3	-	-	-	ZURN	ARE	INSTALL WITH FULL GRATE AND BEEHIVE STRAINER
HB-ADM-11	HOSE BIBB	-	-	-	-	1/2	-	WOODFORD	101CP	INSTALL WITH LEAD FREE ATMOSPHERIC VACUUM BREAKER GRANGER #BFP-9
HB-ADM-31	HOSE BIBB	-	-	-	-	1/2	-	WOODFORD	101CP	INSTALL WITH LEAD FREE ATMOSPHERIC VACUUM BREAKER GRANGER #BFP-9
HB-STG-11	HOSE BIBB	-	-	-	-	1/2	-	WOODFORD	101CP	INSTALL WITH LEAD FREE ATMOSPHERIC VACUUM BREAKER GRANGER #BFP-9
LAV-ADM-11	LAV SINK	2	1-1/2	2	-	1/2	1/2	AMERICAN STANDARD	LUCERNE	WALL HUNG, SINGLE HOLE, WHITE FINISH FAUCET: CHIGACO FAUCETS MODEL 333-665PSHABCP
LAV-ADM-12	LAV SINK	2	1-1/2	2	-	1/2	1/2	AMERICAN STANDARD	LUCERNE	WALL HUNG, SINGLE HOLE, WHITE FINISH FAUCET: CHIGACO FAUCETS MODEL 333-665PSHABCP
LAV-ADM-13	LAV SINK	2	1-1/2	2	-	1/2	1/2	AMERICAN STANDARD	LUCERNE	WALL HUNG, SINGLE HOLE, WHITE FINISH FAUCET: CHIGACO FAUCETS MODEL 333-665PSHABCP
LAV-ADM-51	LAV SINK	2	1-1/2	2	-	1/2	1/2	AMERICAN STANDARD	LUCERNE	WALL HUNG, SINGLE HOLE, WHITE FINISH FAUCET: CHIGACO FAUCETS MODEL 333-665PSHABCP
MS-ADM-71	MOP SINK	3	2	3	-	1/2	1/2	FIAT	TERRAZZO	INSTALL WITH WALL GUARDS FAUCET: WALL MOUNT WITH TOP BRACE, AMERICAN STANDARD MODEL 8344.212
PMP-ADM-71	HOT WATER RECIRC PUMP	-	-	-	-	-	1/2	GRUNDFOS	ALPHA	POWER: 115V/1PH/60Hz, 1/25 HP CONNECTIONS: 1/2" FLANGE KIT TO NPT
RPZ-ADM-71	RPZ BACKFLOW PREVENTOR	-	-	-	-	2	-	WATTS	SERIES LF009	CONNECTION: NPT LEAD FREE ROUTE DRAIN TO MOP SINK
RPZ-STG-11	RPZ BACKFLOW PREVENTOR	-	-	-	-	2	-	WATTS	SERIES LF009	CONNECTION: NPT LEAD FREE
S-ADM-11	KITCHEN SINK	2	1-1/2	1-1/2	-	1/2	1/2	AMERICAN STANDARD	COLONY	SINK: STAINLESS STEEL, 25" x 22", STAINLESS STEEL, THREE HOLE, 3" STAINLESS STEEL STRAINER FAUCET: ELKAY MODEL LK800GN08T6
S-ADM-31	KITCHEN SINK	2	1-1/2	1-1/2	-	1/2	1/2	AMERICAN STANDARD	COLONY	SINK: STAINLESS STEEL, 25" x 22", STAINLESS STEEL, THREE HOLE, 3" STAINLESS STEEL STRAINER FAUCET: ELKAY MODEL LK800GN08T6
SH-ADM-11	SHOWER	2	1-1/2	2	-	1/2	1/2	MAAX	106548-000-002-001	STALL: 5'x3', ONE PIECE, ADA SEAT AND GRAB BARS SHOWER VALVE: ADA COMPLIANT, MOEN POSI-TEMP, ADLER, CHROME TRIM, SINGLE HANDLE SHOWER DRAIN: SIOUX CHIEF 2" PVC HUB, ROUND SST STRAINER
SH-ADM-12	SHOWER	2	1-1/2	2	-	1/2	1/2	AQUATIC	13636BFSBTTR	STALL: 3'x3', ADA SEAT AND GRAB BARS SHOWER VALVE: ADA COMPLIANT, MOEN POSI-TEMP, MODEL 8346, CHROME TRIM, SINGLE HANDLE SHOWER DRAIN: SIOUX CHIEF 2" PVC HUB, ROUND SST STRAINER
SH-ADM-13	SHOWER	2	1-1/2	2	-	1/2	1/2	AQUATIC	13636BFSBTTR	STALL: 3'x3', ADA SEAT AND GRAB BARS SHOWER VALVE: ADA COMPLIANT, MOEN POSI-TEMP, MODEL 8346, CHROME TRIM, SINGLE HANDLE SHOWER DRAIN: SIOUX CHIEF 2" PVC HUB, ROUND SST STRAINER
SH-ADM-14	SHOWER	2	1-1/2	2	-	1/2	1/2	AQUATIC	13636BFSBTTR	STALL: 3'x3', ADA SEAT AND GRAB BARS SHOWER VALVE: ADA COMPLIANT, MOEN POSI-TEMP, MODEL 8346, CHROME TRIM, SINGLE HANDLE SHOWER DRAIN: SIOUX CHIEF 2" PVC HUB, ROUND SST STRAINER
SH-ADM-15	SHOWER	2	1-1/2	2	-	1/2	1/2	maax	106548-000-002-001	STALL: 3.5'X3', THREE-PIECE, SEAT ON THE RIGHT WITH GRAB BARS VALVE: MOEN POSI-TEMP, ADLER, CHROME TRIM, SINGLE HANDLE SHOWER DRAIN: SIOUX CHIEF 2" PVC HUB, ROUND SST STRAINER
SH-EAB-01	SHOWER	2	1-1/2	2	-	1/2	1/2	MAAX	106546-000-002-001	STALL: 3.5'X3', THREE-PIECE, SEAT ON THE RIGHT WITH GRAB BARS VALVE: MOEN POSI-TEMP, ADLER, CHROME TRIM, SINGLE HANDLE SHOWER DRAIN: SIOUX CHIEF 2" PVC HUB, ROUND SST STRAINER
TD-STG-41	6" TRENCH DRAIN	4	3	4	-	-	-	ZURN	Z886	ACID RESISTANT EPOXY COATED FINISH PROVIDE WITH P-TRAP AND CLASS C TRAFFIC RATED, HEAVY DUTY FRAME

PLUMBING FIXTURE SCHEDULE CONT.

TMV-ADM-11	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-ADM-12	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-ADM-13	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-ADM-14	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-ADM-31	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-ADM-51	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-EAB-01	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-EAB-02	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
TMV-STG-11	THERMOSTATIC MIXING VALVE	-	-	-	1-1/4	1-1/4	1-1/4	LEONARD	TM-850-LF	SET OUTLET TEMPERATURE TO 75 DEG F
TMV-STG-41	POINT OF USE THERMOSTATIC MIXING VALVE	-	-	-	-	3/8	3/8	LEONARD	170-LF	SET OUTLET TEMPERATURE TO 105 DEG F
U-ADM-11	URINAL	2	1-1/2	2	-	3/4	-	ZURN	Z5758.207.00	ADA COMPLIANT VALVE: FLUSHOMETER TYPE WITH CHROME FINISH
U-ADM-12	URINAL	2	1-1/2	2	-	3/4	-	ZURN	Z5758.207.00	ADA COMPLIANT VALVE: FLUSHOMETER TYPE WITH CHROME FINISH
US-STG-41	UTILITY SINK	1-1/2	1-1/2	1-1/2	-	3/8	3/8	TRINITY	THA-0303	STAINLESS STEEL FINISH; DEEP SEAL P-TRAP DRAIN. PROVIDE WITH STAINLESS STEEL FAUCET AND STRAINER.
WB-ADM-71	WASHING MACHINE OUTLET BOX	2	1-1/2	2	-	1/2	1/2	OATEY	QUADTRO	CONNECT TO OWNER PROVIDED CLOTHES WASHER AND DRYER ACCORDING TO MANUFACTURER'S RECOMMENDATIONS

PROVIDE THE ABOVE LISTED FIXTURES OR PRE-APPROVED EQUAL

GAS WATER HEATER

ID	NOMICAL CAPACITY GALLONS	GAS INPUT MBH	FUEL	HEIGHT INCHES	DIAMETER INCHES	UEF	INLET INCHES	OUTLET INCHES	GAS CONNECTION INCHES	MAKE	MODEL
WH-ADM-71	75	76	NAT. GAS	65	26	0.59	1	1	1/2	BRADFORD WHITE	ULG275H763N

NOTE:
1. SET OUTLET TEMP TO 140 DEF F
2. ROUTE T&P DRAIN TO AN APPROVED LOCATION
3. PROVIDE WATER HEATER PAN AND ROUTE DRAIN TO AN APPROVED LOCATION
4. PROVIDE AND INSTALL WITH ISOLATION VALVES, DI-ELECTRIC UNIONS AND EXPANSION TANKS AS SHOWN ON THE PLANS
5. SECURE WATER HEATER WITH AN APPROVED SEISMIC STRAP

ELECTRIC WATER HEATER

ID	OUTLET TEMP (°F)	MAX PRESSURE (PSI)	NOMINAL CAPACITY (GAL)	VOLTS	PHASE	KW	INLET INCHES	OUTLET INCHES	MAKE	MODEL
WH-STG-11	140	150	80	208	3	13.5	1-1/4	1-1/4	BRADFORD WHITE	E32-80R-3

PROVIDE:
1. NEMA 4X ENCLOSURE
2. ELECTRICAL DISCONNECT, COORDINATE WITH ELECTRICAL
3. HAMMER ARRESTOR, Y-STRAINER, DRAINS, UNIONS PER MANUFACTURER RECOMMENDATIONS
4 SET OUTLET TEMP TO 140 DEG F

WATER CLOSET SCHEDULE

ID	DESCRIPTION	DRAIN INCH	VENT INCH	TRAP INCH	COLD SUPPLY INCH	MAKE	MODEL	MOUNT	FLUSH TYPE	GALLONS PER FLUSH	SEAT	NOTES
WC-ADM-11	WATER CLOSET	3	2	INTEGRAL	1	AMERICAN STANDARD	CADET PRO	FLOOR MOUNTED	TANK	1.6	WHITE PLASTIC	1
WC-ADM-12	WATER CLOSET	3	2	INTEGRAL	1	AMERICAN STANDARD	CADET PRO	FLOOR MOUNTED	TANK	1.6	WHITE PLASTIC	1
WC-ADM-13	WATER CLOSET	3	2	INTEGRAL	1	AMERICAN STANDARD	CADET PRO	FLOOR MOUNTED	TANK	1.6	WHITE PLASTIC	1
WC-ADM-51	WATER CLOSET	3	2	INTEGRAL	1	AMERICAN STANDARD	CADET PRO	FLOOR MOUNTED	TANK	1.6	WHITE PLASTIC	1

PROVIDE THE ABOVE LISTED FIXTURES OR PRE-APPROVED EQUAL
1 ADA COMPLIANT

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

PLUMBING SCHEDULES

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 98

FIGURE NO. MP-601

J:\225096-001 - PENDLETON WWTRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1105_PLUMB\OPS BUILDING\MP-601 - PLUMBING SCHEDULES - OPS.DWG LAST SAVED: 4/17/2026 12:07 PM PRINTED: 4/27/2026 1:57 PM

DUCT SYMBOLS

SUPPLY DIFFUSER

RETURN GRILLE

ELBOW WITH TURNING VANES

ROUND RECT.

RETURN AIR DUCT SECTION

RETURN AIR DUCT UP

RETURN AIR DUCT DOWN

SUPPLY AIR DUCT SECTION

SUPPLY AIR DUCT UP

SUPPLY AIR DUCT DOWN

EXHAUST AIR DUCT SECTION

EXHAUST AIR DUCT UP

EXHAUST AIR DUCT DOWN

BALANCING DAMPER

18X12

DUCT SIZE, FIRST FIGURE IS SIDE SHOWN

BURIED OR UNDER FLOOR DUCT

FLEXIBLE DUCT CONNECTION

DUCT TRANSITION

FLEXIBLE DUCT

SUPPLY AIR

RETURN AIR

EQUIPMENT SYMBOLS

SIDE VIEW TOP VIEW

GRAVITY VENTILATOR

BACKDRAFT / RELIEF DAMPER

CIRCULATION FAN

VENT OR CEILING EXHAUST FAN

LOUVER

EXHAUST FAN

SUPPLY FAN

UNIT HEATER

INSTRUMENTATION AND CONTROLS

GD GAS DETECTOR

SD SMOKE DETECTOR

H HUMIDISTAT

M MOTOR

T THERMOSTAT

TS TEMPERATURE SENSOR

AIR FLOW SENSOR

PRESSURE REGULATOR VALVE

GAS BALL VALVE

ALARM BEACON

$ ^{3} SWITCH / THREE-WAY SWITCH

LINE TYPES

AIR

CONDENSATE DRAIN

CONDUIT

FLEXIBLE DUCT

FLEXIBLE GAS CONNECTION

HVAC

NATURAL GAS

REFRIGERANT LIQUID

REFRIGERANT SUCTION

VENT

ABBREVIATION TABLE

AC	AIR CONDITIONING UNIT / AIR HANDLER
ACF	AIR CIRCULATION FAN
BB	BRANCH BOX
BD	BACK DRAFT DAMPER
CD	CONDENSATE DRAIN
CF	CIRCULATION FAN
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
D	DIFFUSER
DDC	DIRECT DIGITAL CONTROL
DOAS	DEDICATED OUTDOOR AIR SYSTEM
EA	EXHAUST AIR
EF	EXHAUST FAN
FA	FOUL AIR
FCU	FAN CONTROL UNIT
FR	FIRE RISER
G	GRILL
GD	GAS DETECTOR
GRH	GAS RADIANT HEATER
GUH	GAS UNIT HEATER
GV	GRAVITY VENTILATOR
HP	HEAT PUMP
HX	HEAT EXCHANGER
IRH	INFRARED HEATER
LLC	LEAD-LAG CONTROLLER
LV	LOUVER
M	MOTOR
MBD	MANUAL BALANCING DAMPER
MC	MECHANICAL CHILLER
ML	MOTORIZED LOUVER
MD	MOTORIZED DAMPER
MS	MINI-SPLIT
NG	NATURAL GAS
OA	OUTSIDE AIR
R	REGISTER
RA	RETURN AIR
RD	RELIEF DAMPER
RL	REFRIGERANT LIQUID
RH	RADIANT HEATER
RS	RETURN SUCTION
RTU	ROOF TOP UNIT
SF	SUPPLY FAN
SP	STATIC PRESSURE
TS	TEMPERATURE SENSOR
TD	TRANSFER DUCT
TX	THERMOSTAT
UH	UNIT HEATER
V	VENT
VH	VENTILATION HOOD
WAC	WALL-MOUNTED AIR CONDITIONING UNIT
WH	WEATHERHOOD

GENERAL HVAC NOTES

1) ALL NOTES SPECIFIED HEREIN ARE TO BE COMPLETED OR ADHERED TO BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED TO BE PERFORMED BY OTHER PARTIES.

2) SUBMIT ALL EQUIPMENT AND REQUIRED SHOP DRAWINGS PRIOR TO CONSTRUCTION IN ACCORDANCE WITH SPECIFICATION 01 33 00 – SUBMITTAL PROCEDURES.

3) ALL HVAC EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL ADOPTED CODE, MANUFACTURER RECOMMENDATIONS AND PROJECT PLANS AND SPECIFICATIONS.

4) ALL HVAC SYSTEMS SHALL BE TESTED, BALANCED, INSPECTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION, RE: SPECS FOR TESTING AND BALANCING REQUIREMENTS.

5) PLANS ARE DIAGRAMATIC. THE HVAC CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL MATERIAL, HARDWARE AND DEVICES ARE PROVIDED AND INSTALLED TO CREATE A COMPLETE AND OPERATING SYSTEM IN ACCORDANCE WITH APPLICIABLE REGULATIONS.

6) NOT ALL DUCT AND EQUIPMENT SUPPORTS ARE SHOWN. THE HVAC CONTRACTOR IS RESPONSIBLE TO SUPPORT ALL DUCT WORK IN ACCORDANCE WITH SMACNA RULES AND EQUIPMENT SHALL BE ANCHORED AND SUPPORTED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND LOCAL SEISMIC REQUIREMENTS.

7) DUCT LINING AND INSULATION WILL BE PROVIDED UNLESS OTHERWISE INDICATED ON THE PLANS. REFER TO PROJECT SPECIFICATIONS FOR MORE DETAILS. WEATHERPROOF CLADDING WILL BE PROVIDED FOR ALL EXTERIOR DUCTS.

8) THE CONTRACTOR SHALL COORDINATE ALL HVAC EQUIPMENT INSTALLATIONS BETWEEN STRUCTURAL, MECHANICAL AND ELECTRICAL WORK TO OBTAIN A COMPLETE SYSTEM OPERATING IN ACCORDANCE WITH THE FOLLOWING SEQUENCE OF OPERATION FOR EACH BUILDING.

9) THE DUCT AND EQUIPMENT LOCATIONS ARE SHOWN APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE INSTALLATIONS WITH OTHER TRADES.

10) THE DRAWINGS SHOWS THE BASIS OF DESIGN WHICH IS SPECIFIC EQUIPMENT USED TO MEETING THE DESIGN CONDITIONS. THE BASIS OF DESIGN DOES NOT PROHIBIT THE USE OF OTHER MANUFACTURER'S EQUIPMENT UNLESS EXPLICITLY STATED IN THE HVAC EQUIPMENT SPECS. THE EQUIPMENT SUPPLIED AND INSTALLED SHALL BE THE EQUIPMENT SPECIFIED OR EQUAL IN FEATURES, CAPACITIES, FUNCTIONS, CAPABILITIES AND SERVICE. THE PROJECT ENGINEER RESERVE THE RIGHT TO REJECT EQUIPMENT THAT DOES NOT MEET PROJECT SPECIFICATIONS AS DEFINED.

11) PROVIDE AND INSTALL ALL MOUNTING SYSTEMS FOR THE EQUIPMENT BEING INSTALLED IN THE HVAC SCOPE OF WORK.

12) PROVIDE AND INSTALL WALL COLLARS FOR DUCT PENETRATIONS AND SEAL WEATHER TIGHT WITH FINISH OF THE WALL BEING PENETRATED.

13) COORDINATE THE INSTALLATION OF HVAC CONTROLS, THERMOSTATS, PANELS, AND MOTOR OPERATED LOUVERS WITH OTHER HVAC EQUIPMENT.

14) PRIOR TO BIDDING, OBTAIN A COPY OF THE SPECIFICATIONS AND PLANS, VISIT THE JOBSITE, TAKE NECESSARY MEASUREMENTS, NOTE EXISTING CONDITIONS, AND GATHER ALL OTHER INFORMATION NEEDED FOR AN ACCURATE BID. NO ALLOWANCES WILL BE MADE FOR EXTRA COST RESULTING FROM FAILURE TO NOTE EXISTING CONDITIONS.

15) THE HVAC CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO BEGINNING ANY WORK. ALL WORK SHALL BE INSPECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE TESTING AND BALANCING WHERE INDICATED IN THE PROJECT SPECIFICATIONS.

HVAC SEQUENCE OF OPERATIONS

ADMIN BUILDING

THE ADMIN BUILDING IS EQUIPPED WITH A DX SPLIT SYSTEM TO PROVIDE HEATING AND COOLING TO THE BUILDING. THE BUILDING SHALL HAVE TWO ZONES; ONE FOR OFFICE SPACES AND ONE FOR OPERATOR AREAS. EACH ZONE IS EQUIPPED WITH A MOTOR ACTUATED BALANCING DAMPER; WHICH SHALL ADJUST AIRFLOW BASED ON THE THERMOSTAT SET POINT. THE OFFICE SPACE SHALL BE CONTROLLED BY T-ADM-21 AND THE OPERATOR AREA SHALL BE CONTROLLED BY T-ADM-11. SUPPLY AND EXHAUST AIR SHALL BE CONSTANT AND PROVIDE MINIMUM AIRFLOWS TO ROOMS AS SHOWN ON THE DRAWINGS.

THE IT ROOM (109) IS EQUIPPED WITH A DEDICATED MINI-SPLIT HEAT PUMP TO HEAT AND COOL THE SPACE. THE MINI-SPLIT IS CONTROLLED BY T-ADM-091.

THE RESTROOM (105) IS EQUIPPED WITH AN EXHAUST FAN TO PROVIDE INTERMITTENT VENTILATION TO THE SPACE. THE EXHAUST FAN SHALL BE ON WHENEVER THE LIGHTS ARE ON.

STORAGE BUILDING

CHEMICAL STORAGE ROOM (ROOM 101/102/103)

THE CHEMICAL STORAGE ROOM IS EQUIPPED WITH AN ELECTRIC AND A HYDRONIC HEATER TO PROVIDE HEATING TO THE ROOM. UH-STG-11 IS CONTROLLED BY T-STG-11 AND UH-STG-12 IS CONTROLLED BY T-STG-12.

THE CHEMICAL STORAGE ROOM IS EQUIPPED WITH AN EXHAUST FAN AND LOUVER TO PROVIDE FAN COOLING AND VENTILATION. EF-STG-11 AND LV-STG-11 ARE CONTROLLED BY T-STG-13 AND AN HOA SWITCH.

STORAGE ROOM (ROOM 104)

THE STORAGE ROOM IS EQUIPPED WITH AN ELECTRIC AND A HYDRONIC HEATER TO PROVIDE HEATING TO THE ROOM. UH-STG-41 IS CONTROLLED BY T-STG-41 AND UH-STG-42 IS CONTROLLED BY T-STG-42.

CF-STG-41 AND CF-STG-42 ARE FOR AIR CIRCULATION AND SHALL BE CONTROLLED BY A WALL MOUNTED SWITCH.

PPE STORAGE ROOM (ROOM 105)

THE PPE STORAGE ROOM IS EQUIPPED WITH A MINI-SPLIT HEAT PUMP TO HEAT AND COOL THE ROOM. FN-STG-51 IS CONTROLLED BY T-STG-51.

STORAGE ROOM (ROOM 106)

THE ELECTRICAL ROOM IS EQUIPPED WITH A MINI-SPLIT HEAT PUMP TO HEAT AND COOL THE ROOM. FN-STG-61 IS CONTROLLED BY T-STG-61.

REFERENCE MH-601 FOR THERMOSTAT SET POINTS.

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

HVAC NOTES AND SYMBOLS

DRAWN: DAC CHECK: DW

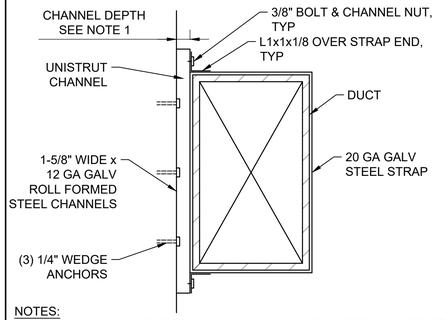
VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 99

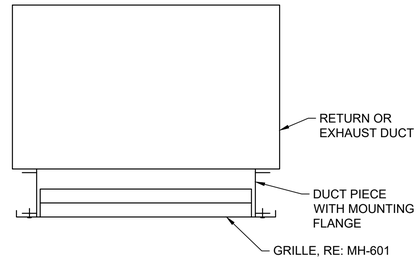
FIGURE NO. MH-001

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\06_HVAC\OPS BUILDING\MH-001 HVAC NOTES AND SYMBOLS - OPS.DWG
LAST SAVED: 4/17/2026 12:07 PM PRINTED: 4/27/2026 1:57 PM

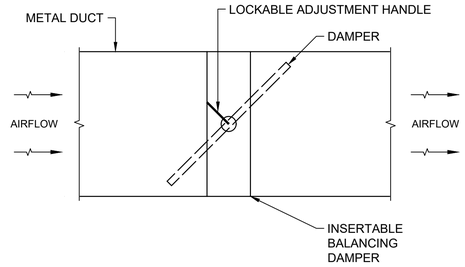


NOTES:
1. USE CHANNEL FOR EACH INSTALLATION WITH DEPTH TO OFFSET DUCT ADEQUATE DISTANCE FROM WALL TO CLEAR OBSTACLES. WHERE FROM ONE CHANNEL SECTION IS NOT SUFFICIENT DEPTH, PROVIDE NECESSARY OFFSET BY USING TWO CHANNELS LAID WEB TO WEB.

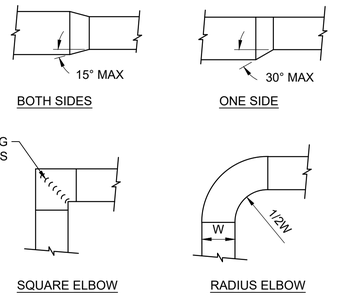
H3006 WALL MOUNT DUCT
3" = 1'-0"



H4006 GRILLE
N.T.S.

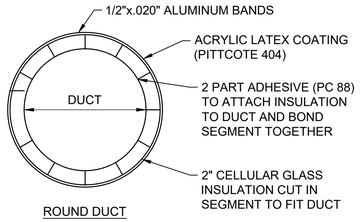


H4007 MANUAL BALANCING DAMPER
N.T.S.



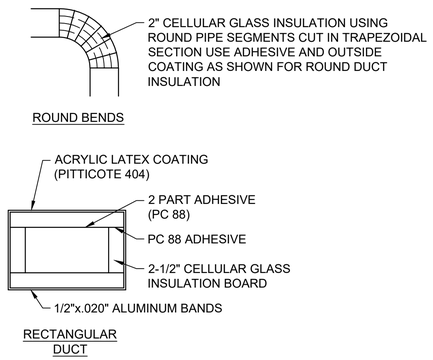
NOTES:
1. INSIDE SQUARE, OUTSIDE RADIUS ELBOWS NOT ALLOWED.
2. ALL DUCTS (SUPPLY, RETURN AND EXHAUST) TO HAVE TURNING VANES IN SQUARE ELBOWS.

H3002 RECTANGULAR DUCT FITTINGS
N.T.S.

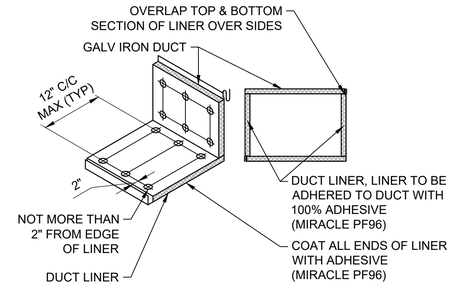


NOTE: PROVIDE PRE-INSULATED JACKETING FOR ALL EXTERIOR DUCT WORK, RE: DIV 23 SPECIFICATIONS.

H3003 DUCT INSULATION DETAIL
N.T.S.

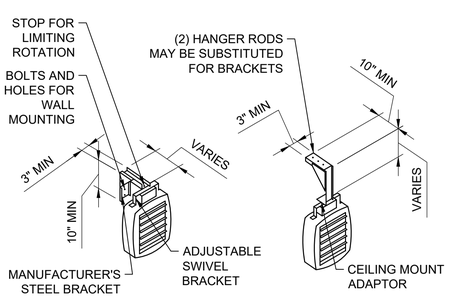


H3004 DUCT LINER
N.T.S.



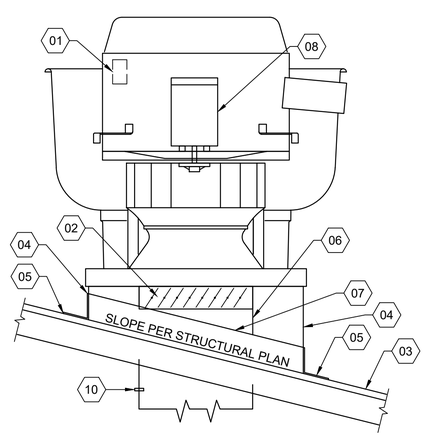
METAL FASTENERS:
OMARK INSUL-PINS, DURA DYNE FASTENERS OR GRIP NAILS. INSTALL GRIP NAILS BY "GRIP NAIL AIR HAMMER" OR BY "AUTOMATIC FASTENER EQUIPMENT".

NOTES:
1. BUTT ENDS OF LINER FIRMLY TOGETHER.



NOTES:
1. HEATER TO BE CONTROLLED FROM WALL-MOUNTED THERMOSTAT UNLESS OTHERWISE SHOWN.
2. ELECTRIC UNIT HEATER AS SPECIFIED, RE: MH-601

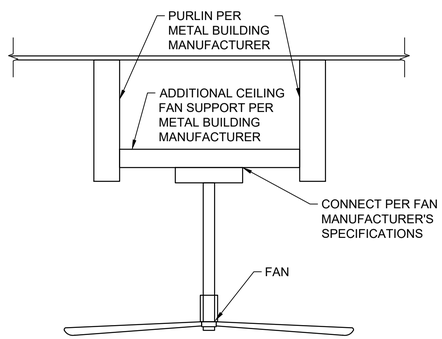
H1001 ELECTRIC UNIT HEATER
N.T.S.



DETAIL KEYNOTES:
01 ELECTRICAL DISCONNECT
02 BACK DRAFT DAMPER
03 ROOFING MATERIAL
04 SLOPED CURB
05 FLASHING MATERIAL, OVERLAP
06 DUCT WITH TRANSITION, AS NEEDED
07 SEAL WATER TIGHT, SILICONE BASED SEALANT
08 MOTOR
09 FLASHING MATERIAL UNDER LAP
10 AIR FLOW SWITCH, RE: SPECS

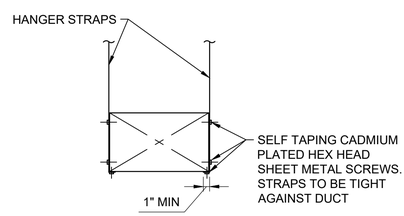
NOTES: AIR FLOW SWITCH ONLY IF SPECIFIED ON DRAWINGS

H2008 SLOPED ROOF MOUNTED EXHAUST FAN
N.T.S.



NOTES:
1. FAN TO BE ATTACHED TO A PURLIN THAT SPANS THE DISTANCE BETWEEN THE TWO TRUSSES. CONNECT TO TRUSS ACCORDING TO TRUSS MANUFACTURER'S RECOMMENDATIONS

H2011 FAN ATTACHMENT DETAIL
1" = 1'-0"



HANGER SIZES FOR RECTANGULAR DUCT		
LONGEST DIM OF DUCT	HANGER STRAPS	MAXIMUM SPACING
UP THRU 60"	1" x 16 GA	10'-0"
61" THRU 96"	1-1/2" x 16 GA	8'-0"

NOTES:
1. NO POP RIVETS ALLOWED.

H3001 DUCT HANGER
N.T.S.

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
101193PE
Digitally Signed 2026.05.01 07:05:43-07'00'
OREGON
SEP. 13, 2021
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

HVAC DETAILS

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

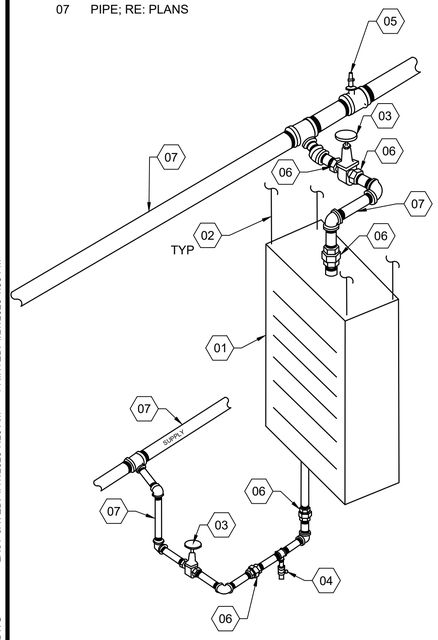
PROJECT NO. 225096-001 | 100

FIGURE NO. MH-501

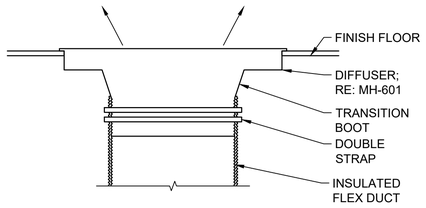
LAST SAVED: 4/17/2026 7:20 AM PRINTED: 4/29/2026 1:08 PM
J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\06_HVAC\OPS BUILDING\MH-501 - OPS.DWG

KEYNOTES

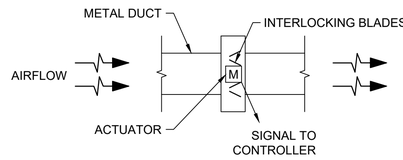
01 HYDRONIC UNIT HEATER; RE: MP-601
02 MANUFACTURER APPROVED HANGERS OR SUPPORT BRACKET
03 GATE VALVE
04 DRAIN VALVE
05 PET COCK / SYSTEM VENT
06 UNION
07 PIPE; RE: PLANS



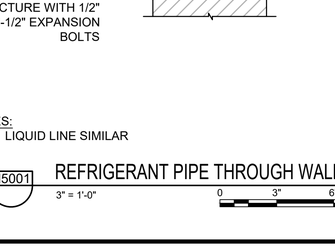
H9002 HYDRONIC UNIT HEATER
N.T.S.



H9003 FLEX TO DIFFUSER
N.T.S.



H9004 MOTORIZED BALANCE DAMPER
N.T.S.



KEYNOTES
01 CONDENSING UNIT; RE: HVAC SCHEDULES

02 FLEXIBLE COVER OR FIXED ELBOW TO EQUIPMENT

03 VERTICAL RUN LINE SET COVER, RECTORSEAL SLIMDUCT OR APPROVED EQUAL. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. CHOOSE COLOR BASED ON OWNER PREFERENCE.

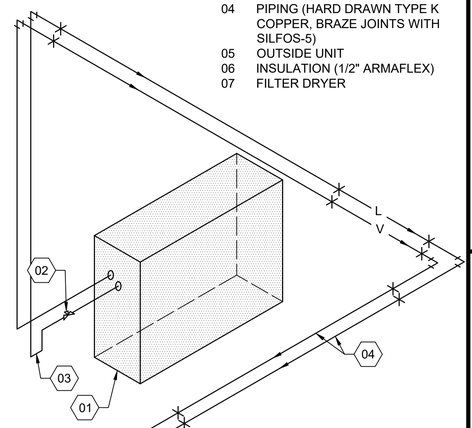
04 END CAP FITTING

05 WATER-TIGHT WALL PENETRATION; RE: H5001

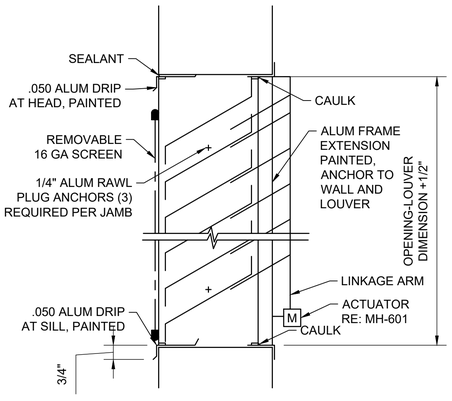
NOTE: INSTALL LINE SET COVER USING APPROVED FASTENERS IE. PLASTIC ANCHOR INSERTS OR BETTER. SUPPORT THROUGHOUT AS NECESSARY.

H5007 EXTERIOR REFRIGERANT LINE COVER
N.T.S.

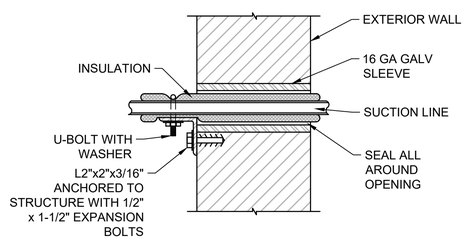
KEYNOTES:
01 INSIDE UNIT
02 EXPANSION VALVE
03 TRAP
04 PIPING (HARD DRAWN TYPE K COPPER, BRAZE JOINTS WITH SILFOS-5)
05 OUTSIDE UNIT
06 INSULATION (1/2" ARMAFLEX)
07 FILTER DRYER



H5005 REFRIGERANT PIPING
N.T.S.

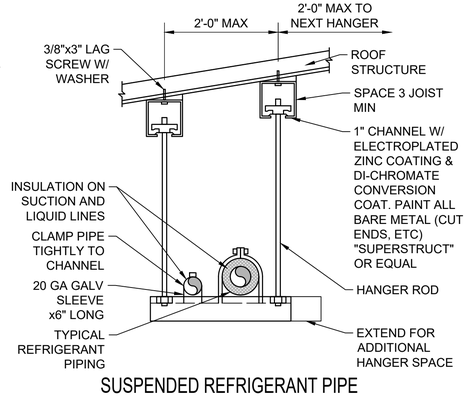


H4008 MOTORIZED LOUVER
3" = 1'-0"

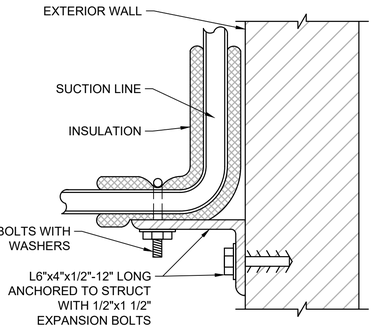


NOTES:
1. LIQUID LINE SIMILAR

H5001 REFRIGERANT PIPE THROUGH WALL
3" = 1'-0"



H5002 SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING
3/4" = 1'-0"



NOTES:
1. LIQUID LINE SIMILAR WITH FELT LINED BRASS SLEEVE AROUND PIPE.

H5003 REFRIGERANT PIPE SUPPORT AT WALL
3" = 1'-0"

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
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(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
101193PE
Digitally Signed 2026.05.01 21:06:50-07'00'
OREGON
SEP. 13, 2023
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

HVAC DETAILS

DRAWN: --- CHECK: ---

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 101

FIGURE NO. MH-502

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\06_HVAC\OPS BUILDING\MH-501 - OPS.DWG
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HYDRONIC UNIT HEATER SCHEDULE

MARK	MBH	V/PH	CONTROL SYSTEM	TYPE	CONTROL TRANSORMER	AIRFLOW [CFM]	MOUNTING	MOTOR	DISCONNECT	MANUFACTURER OR EQUAL	MODEL	NOTES
UH-STG-11	17	120/1	REMOTE THERMOSTAT	HYDRONIC	24 V	450	WALL	16 WATTS	10 AMPS ON UNIT	TRANE	S-24	1
UH-STG-41	17	120/1	REMOTE THERMOSTAT	HYDRONIC	24 V	450	WALL	16 WATTS	10 AMPS ON UNIT	TRANE	S-24	1

NOTES
1 PROVIDE WALL BRACKET
2 PROVIDE CEILING BRACKET

AC MINI-SPLIT UNIT SCHEDULE

ID	TYPE	REFRIG.	COOLING [MBH]	HEATING [MBH]	GAS (O.D) [IN]	LIQUID (O.D) [IN]	POWER [KW]	V/PH/Hz	MCA [AMP]	BREAKER [AMP]	WIDTH [IN]	DEPTH [IN]	HEIGHT [IN]	MANUFACTURER OR APPROVED EQUAL	MODEL NO
CU-ADM-91	OUTDOOR	R454B	20.8	20.8	5/8	1/4	5.1	208-230/1/60	22	40	33	13	35	MITSUBISHI	MSZ-FX24NL
FN-ADM-91	INDOOR	R454B	20.8	20.8	5/8	1/4	-	-	-	-	40	10	12		MUZ-FX24NLHZ
CU-STG-51	OUTDOOR	R454B	23.6	23.6	1/2	1/4	6.8	208-230/1/60	29	50	38	13	32		MXZ-3D24NLHZ
FN-STG-51	INDOOR	R454B	12	14.4	3/8	1/4	-	-	-	-	32	10	12		MSZ-GX12NL
FN-STG-61	INDOOR	R454B	12	14.4	3/8	1/4	-	-	-	-	32	10	12		MSZ-GX12NL

PROVIDE:
1. WIRELESS REMOTE CONTROL / THERMOSTAT
2. WASHABLE FILTER
3. 6" TALL ICE LEGS
4. 24 HOUR VACUUM TEST

CEILING FAN SCHEDULE

MARK	TYPE	MOUNTING	RPM	CFM	DRIVE	MOTOR [hp]	V/PH	MANUFACTURER OR EQUAL	MODEL	NOISE [SONES]	DIAMETER
CF-STG-41	HIGH VOLUME, LOW SPEED FAN	CEILING	183	31800	DIRECT	1	480/3	BIG ASS FANS	POWERFOIL 6	7	8' DIAM
CF-STG-42	HIGH VOLUME, LOW SPEED FAN	CEILING	183	31800	DIRECT	1	480/3	BIG ASS FANS	POWERFOIL 6	7	8' DIAM

SPECIAL FEATURES LIST
1 BIRD SCREEN
2 DISCONNECT SWITCH
3 WEATHERHOOD
4 GRAVITY BACKDRAFT DAMPER
5 WHITE METAL CEILING GRILLE
6 WALL CAP BROAN 647 WITH DUCT TRANSITION
7 VARIABLE SPEED CONTROLLER
8 TYPE A SPARK RESISTANT CONSTRUCTION
9 WIRE GUARD ON INTAKE
10 MOTOR ACCESS PANEL
11 SHAFT GUARD
12 CARBON GEL GROUNDING ON AIR SURFACES
13 FLUSH INTERIOR MOUNTING
14 HINGED WALL CURB
15 DISCHARGE WEATHERHOOD
16 HINGED ROOF CURB
17 INVERTED RATED MOTOR
18 UL LISTED

ENERGY RECOVERY VENTILATOR SCHEDULE

Unit Tag	SUPPLY FAN CFM	SUPPLY FAN STATIC PRESSURE [IN WC]	SUPPLY FAN RPM	SUPPLY FAN MOTOR HP	EXHAUST FAN CFM	EXHAUST FAN STATIC PRESSURE [IN WC]	EXHAUST FAN RPM	EXHAUST FAN MOTOR HP	ELECTRICAL VOLTS	ELECTRICAL PHASE	ELECTRICAL HZ	MAKE	MODEL	Notes
ERV-ADM-11	400	0.25	934	1/4	400	0.25	1029	1/4	120	1	60	GREENHECK	MINICORE-5-F-VG	1

NOTES:
1) PROVIDE ACCESS PANEL

ELECTRIC UNIT HEATER SCHEDULE

ID	kW	V/PH	FLA	MOCP	CONTROL SYSTEM	TYPE	CONTROL TRANSORMER	AIRFLOW [CFM]	MOUNTING	DISCONNECT	MANUFACTURER OR EQUAL	MODEL	MOUNTING
UH-STG-12	5	480/3	6.1	15	REMOTE THERMOSTAT	ELECTRIC	24 V	475	WALL	25 AMPS ON UNIT	REZNOR	EUH-5	WALL BRACKET
UH-STG-42	5	480/3	6.1	15	REMOTE THERMOSTAT	ELECTRIC	24 V	475	WALL	25 AMPS ON UNIT	EUH-5	EUH-3	WALL BRACKET

EXHAUST FAN SCHEDULE

MARK	TYPE	MOUNTING	AIRFLOW [CFM]	SP [IN WC]	RPM	DRIVE	MOTOR [hp]	V/PH	MANUFACTURER OR EQUAL	MODEL	NOISE [SONES]	WALL/ROOF OPENING [INCHES]	SPECIAL FEATURES
EF-ADM-51	BATHROOM EXHAUST FAN	CEILING	80	0.4	820	DIRECT	1/10	120/1	GREENHECK	SP-AP0511W	1.5	11.5X11.5	13,15,18
EF-STG-11	UPBLAST	ROOF	500	0.35	800	DIRECT	1/4	120/1	GREENHECK	CUE 100	11	19X19	1,2,4,14,18

SPECIAL FEATURES LIST
1 BIRD SCREEN
2 DISCONNECT SWITCH MOUNTED ON FAN
3 WEATHERHOOD
4 GRAVITY BACKDRAFT DAMPER
5 WHITE METAL CEILING GRILLE
6 WALL CAP BROAN 647 WITH DUCT TRANSITIOI
7 VARIABLE SPEED CONTROLLER
8 TYPE A SPARK RESISTANT CONSTRUCTION
9 WIRE GUARD ON INTAKE
10 FRP BELT
11 SHAFT GUARD
12 CARBON GEL GROUNDING ON AIR SURFACES
13 FLUSH INTERIOR MOUNTING
14 HINGED CURB
15 DISCHARGE WEATHERHOOD
16 HINGED ROOF CURB
17 INVERTED RATED MOTOR
18 UL LISTED

AIR HANDLER SCHEDULE

MARK	TYPE	RATING [TONS]	COOLING [MBH]	HEATING [MBH]	FAN SECTION CFM	FAN SECTION SP in W.G.	FAN SECTION HP	FAN SECTION DRIVE	REFRIGERANT TYPE	UNIT ELECTRICAL VOLTS	UNIT ELECTRICAL PHASE	UNIT ELECTRICAL Hz	UNIT ELECTRICAL MCA	MAKE	MODEL
AHU-ADM-71	MULTI-POSITION AIR HANDLER INDOOR UNIT	3.5	36	32.5	1,040	0.3	1/2 HP MULTISPEED	DIRECT	R454B	208	1	60	8.5	TRANE	S8V2A040M3P
CU-ADM-71	OUTDOOR CONDENSING UNIT	3	36	--	-	-	-	DIRECT	R454B	208	1	60	18		5TTR4036A1000A

PROVIDE THE FOLLOWING:
1 WIRELESS REMOTE CONTROL / THERMOSTAT
2 PART LOAD OPERATION
3 6" TALL ICE LEGS
4 INTEGRAL FILTER
5 24 HOUR VACUUM TEST
6 CONDENSATE DRAIN TO AN APPROVED LOCATION. DO NOT ROUTE OVER ELECTRICAL EQUIPMENT.
7 115V CONDENSATE PUMP
8 ERV ON/OFF INPUT ADAPTER
9 GAS VENT THROUGH ROOF
10 ZONE CONTROLLER WITH TWO DAMPER INPUTS AND TWO THERMOSTAT INPUTS

LOUVER SCHEDULE

MARK	MOUNTING	SIZE [LxW]	TYPE	DEPTH [IN]	BLADES	BLADE ANGLE [DEG]	MATERIAL	FINISH	MOTOR OPERATOR	SCREEN	MANUFACTURER OR EQUAL	MODEL	OPTIONS REQUIRED
LV-STG-11	WALL FLANGE	48X48	COMBINATION	6	J-Style	45	6063T6 ALUM	KYNAR	120 VAC	BIRD	GREENHECK	ECD-601	2,5,8

LOUVER OPTIONS
1 EXTENDED SILL
2 EXTERIOR FLANGE
3 FILTER RACK AND 1 IN PLEATED FILTERS
7 EXPLOSION PROOF ACTUATOR
4 INSULATED BLANK OFF PANEL
5 120 VAC MOTOR OPEN / SPRING CLOSED OPERATOR
6 24 DC MOTOR CLOSE / SPRING OPEN OPERATOR
8 BACKDRAFT DAMPER

DIFFUSER (D) and GRILLE (G) SCHEDULE

MARK	MANUFACTURER OR EQUAL	MODEL	DIFFUSER SIZE	GRILLE SIZE	COLLAR SIZE	DESCRIPTION	MATERIAL	FINISH
EG-ADM-11	PRICE	60/70	-	16x16	8x8	CEILING MOUNT EXHAUST GRILLE	ALUMINUM	WHITE
EG-ADM-12	PRICE	60/70	-	16x16	8x8	CEILING MOUNT EXHAUST GRILLE	ALUMINUM	WHITE
EG-ADM-13	PRICE	60/70	-	16x16	8x8	CEILING MOUNT EXHAUST GRILLE	ALUMINUM	WHITE
EG-ADM-71	PRICE	60/70	-	16x16	8x8	CEILING MOUNT EXHAUST GRILLE	ALUMINUM	WHITE
RG-ADM-10	PRICE	60/70	-	12X12	6x6	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-11	PRICE	60/70	-	16X16	10x10	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-14	PRICE	60/70	-	12X12	6x6	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-21	PRICE	60/70	-	12X12	6x6	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-31	PRICE	60/70	-	16X16	8x8	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-41	PRICE	60/70	-	16X16	8x8	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-61	PRICE	60/70	-	12X12	6x6	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
RG-ADM-81	PRICE	60/70	-	12X12	6x6	CEILING MOUNT RETURN GRILLE	ALUMINUM	WHITE
SD-ADM-01	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-10	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-11	GREENHECK	LBG-3-12A	12X6	-	8" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-12	GREENHECK	LBG-3-12A	12X6	-	8" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-13	GREENHECK	LBG-3-12A	12X6	-	8" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-14	GREENHECK	LBG-3-12A	12X6	-	8" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-15	GREENHECK	LBG-3-12A	12X6	-	8" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-16	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-21	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-31	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-32	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-33	GREENHECK	LBG-3-12A	12X6	-	8" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-41	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-61	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE
SD-ADM-81	GREENHECK	LBG-3-12A	12X6	-	6" Ø	FLOOR MOUNT SUPPLY DIFFUSER	ALUMINUM	WHITE

REMARKS
1. PROVIDE TRANSITION FITTINGS AS REQUIRED TO CONNECT DUCTWORK TO DIFFUSERS AND GRILLES.

THERMOSTAT SCHEDULE

MARK	TYPE	MANUFACTURER OR EQUAL	MODEL	TEMP SET POINT [°F]	ACCESSORIES
T-ADM-11	ADJUSTABLE THERMOSTAT	WITH HVAC UNIT	--	70°	-
T-ADM-21	ADJUSTABLE THERMOSTAT	WITH HVAC UNIT	--	70°	-
T-ADM-91	ADJUSTABLE THERMOSTAT	WITH HVAC UNIT	--	70°	-
T-STG-11	CORROSION RESIST THERMOSTAT	CHROMALOX	WCRT-100	55°	3,5
T-STG-12	CORROSION RESIST THERMOSTAT	CHROMALOX	WCRT-100	50°	3,5
T-STG-13	CORROSION RESIST THERMOSTAT	CHROMALOX	WCRT-100	80°	3,6,8
T-STG-41	CORROSION RESIST THERMOSTAT	CHROMALOX	WCRT-100	55°	3,5
T-STG-42	CORROSION RESIST THERMOSTAT	CHROMALOX	WCRT-100	50°	3,5
T-STG-51	ADJUSTABLE THERMOSTAT	WITH HVAC UNIT	--	70°	3
T-STG-61	ADJUSTABLE THERMOSTAT	WITH HVAC UNIT	--	70°	3

ACCESSORIES:
1) ROOM MOUNTED SENSOR
2) 24 VOLT TERMINAL BLOCK
3) NEMA 4X ENCLOSURE
4) DOUBLE POLE SINGLE THROW
5) OPEN ON TEMP RISE
6) CLOSE ON TEMP RISE
7) EXPLOSION PROOF, NEMA CLASS 7 DIV 1 APPROVED
8) CONNECT TO HOA SWITCH

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SEP. 13, 2023
CURTIS BUTTERFIELD
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

HVAC SCHEDULES

DRAWN: JVR | CHECK: DW

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 102

FIGURE NO. MH-601

PRINTED: 4/27/2026 1:57 PM
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ABBREVIATIONS AND MISCELLANEOUS

AC	ABOVE COUNTER, 4" ABOVE BACK SPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH
BOD	BOTTOM OF DEVICE
BLG	BELOW GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
COD	CENTER OF DEVICE
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
GND	GROUND
HP	HORSE POWER
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
SF	SURFACE
TC	TEMPERATURE CONTROL CONTRACTOR
UG	UNDERGROUND
W/	WITH
WM	WIRE MOLD
WP	WEATHER PROOF

LIGHTING

- WALL MOUNT LIGHT FIXTURE, SIZE ON PLANS
- PENDANT OR SURFACE MOUNTED WRAP LIGHT FIXTURE, SIZE ON PLANS
- PENDANT OR SURFACE MOUNTED STRIP LIGHT FIXTURE, SIZE ON PLANS
- SHADED FIXTURE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BALLAST
- WALL MOUNTED FIXTURE
- WALL MOUNTED EXIT LIGHT
- PENDANT OR CEILING MOUNTED EXIT SIGN. SHADED AREAS INDICATE ILLUMINATED FACE, ARROWS INDICATE DIRECTION OF EGRESS.
- OS — OCCUPANCY SENSOR
- PC — PHOTO CELL
- BATTERY POWERED EMERGENCY LIGHTING FIXTURE
- WALL MOUNT EXTERIOR LIGHT
- SITE LIGHTING POLE MOUNTED FIXTURE

DATA AND COMMUNICATIONS

- TELEPHONE
- DATA
- TELEPHONE & DATA
- TELEVISION CABLE
- TTB — TELEPHONE TERMINAL BOARD

WIRING LEGEND

- CONDUIT UP
- CONDUIT DOWN
- CONDUIT CONTINUATION
- CONDUIT TERMINATION / CAPPED

ONE-LINE LOADS LEGEND

- 00-XYZ-0000 — EQUIPMENT TAG
- DESC — EQUIPMENT DESCRIPTION
- X — BUILDING DESIGNATOR

POWER AND ONE-LINE

- S_X — SWITCH - SPST

"X" LEGEND

2	DOUBLE POLE	M	MOTION DETECTOR
3	3-WAY	$	MOTOR RATED
4	4-WAY	P	WITH PILOT LIGHT
D	DIMMER	OR	OVERRIDE
F	FAN	OS	OCCUPANCY SENSOR
K	KEY OPERATED	TO	THERMAL OVERLOAD

- PUSH BUTTON
- MOTORIZED DOOR CONTROLLER
- TYPE — RECEPTACLE - DUPLEX

"TYPE" LEGEND

AF	ARC FAULT	SS	SURGE SUPPRESS
GFI	GROUND FAULT	WP	WEATHER PROOF
IG	ISOLATED GRND.	WR	WEATHER RESIST.

- RECEPTACLE - QUAD
- RECEPTACLE - MULTI-OUTLET (PLUG MOLD)
- SPECIAL PURPOSE CONNECTION
- DIRECT CONNECTION
- M — ELECTRIC MOTOR CONNECTION
- J — J-BOX, 4"x4"x2" 1/8" DEEP UNLESS NOTED OTHERWISE
- T T# — THERMOSTAT BY MC, INSTALLED AND CONNECTED BY MC J-BOX AND CONDUIT TO EQUIPMENT BY E.C.
- DISCONNECT SWITCH UNFUSED
- COMBINATION STARTER
- C — CONTACTOR
- R — RELAY
- SS — SOFT START
- HF — HARMONIC FILTER
- VFD — VARIABLE FREQUENCY DRIVE
- M — ELECTRIC METER
- PLR — POWER LOSS RELAY
- PQM — POWER QUALITY MONITOR
- TVSS — TRANSIENT VOLTAGE SURGE SUPPRESSOR

FIRE ALARM SYMBOLS

- F — FIRE ALARM PULL STATION
- H — HEAT DETECTOR
- HS XX — HORN STROBE, XX=CANDELA RATING
- S XX — STROBE, XX=CANDELA RATING

POWER AND ONE-LINE

- TRANSFORMER, DRY TYPE
- CIRCUIT BREAKER
- DRAW OUT GEAR
- MOTOR STARTER
- THERMAL OVERLOAD
- FUSE
- X — PUMP, X = SIZE HP
- X — FAN/MOTOR, X = SIZE HP
- PANEL BOARD, SURFACE MOUNTED
- PANEL BOARD, FLUSH MOUNTED

LINETYPE LEGEND

- CONDUIT CONCEALED IN WALL OR CEILING
- CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND
- DEMO EQUIPMENT
- EXISTING EQUIPMENT
- FUTURE EQUIPMENT
- NEW EQUIPMENT
- MODIFIED EQUIPMENT
- VENDOR PROVIDED EQUIPMENT
- UGP — UNDERGROUND POWER - FROM PROVIDER
- E — UNDERGROUND POWER
- FO — FIBER OPTIC
- JT — JOINT TRENCH

GENERAL ELECTRICAL NOTES

1. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
3. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED.
4. CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS AGENTS.
5. CABLE RUNS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWING. FINAL ROUTING SHALL BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND APPROVED BY THE OWNER.
6. ALL LIGHTING POLES, BOLLARDS AND SIGNS SHALL BE GROUNDED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
7. ALL EQUIPMENT AND WIRING SHALL BE WEATHERPROOF.
8. UNDERGROUND CABLE SHALL BE U.L. APPROVED FOR UNDERGROUND INSTALLATION, WET LOCATION TYPE.
9. CABLE RUNS UNDER ROADS, PARKING AREAS, SIDEWALKS, AND OTHER PAVED AREAS SHALL BE INSTALLED IN CONDUIT.
10. CABLE CONDUIT TRENCH SHALL BE 36" DEEP WITH 4" SAND BEDDING AND 4" SAND COVER INSTALLED OVER CABLE BEFORE BACKFILLING.
11. CABLE CONDUIT RUNS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE.
12. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE CONDUITS SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
13. FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR IN ADMINISTRATION AND OFFICE AREAS (UNLESS OTHERWISE NOTED).
14. POWER WIRING SHALL BE COPPER STRANDED CONDUCTOR WITH "THW" INSULATION RATED 600 VOLTS. MINIMUM WIRE SIZE OF POWER WIRING SHALL BE #12 AWG. LIGHTING AND RECEPTACLE BRANCH CIRCUIT WIRING SHALL BE #12 AWG, MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED ON DRAWINGS OR SCHEDULES.
15. HOME RUN CIRCUITS MORE THAN 75 FEET FROM THE PANEL-BOARD SHALL BE MADE WITH #10 AWG OR LARGER AS REQUIRED TO LIMIT VOLTAGE DROP TO 2% MAXIMUM.
16. THE TYPE OF CONDUIT SHALL BE AS STATED IN THE SPECIFICATIONS.

    UNDERGROUND — PVC SCH40
17. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. RE: A1/ E-503 AND A4/E-503.
18. ALL RECEPTACLES SHALL BE GROUNDING TYPE.
19. ALL RECEPTACLES OUTDOORS, ON ROOFTOPS OR IN INDOOR WET LOCATIONS, SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRICAL CODE 5mA FOR PERSONAL PROTECTION.
20. ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY APPROVED.
21. CONTRACTOR TO CONFIRM EXACT LOCATION OF METERS WITH ELECTRIC UTILITY.
22. SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION.
23. PERFORMANCE AND WITNESSING OF TESTS

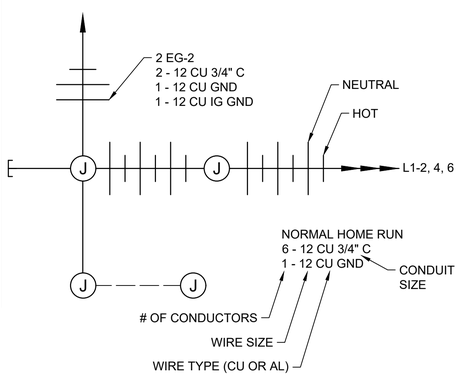
    23.A. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS.

    23.B. ALL NEW AND RECONNECTED ELECTRICAL CIRCUIT SHALL BE TESTED TO INSURE CIRCUIT CONTINUITY, INSULATION RESISTANCE, PROPER SPLICING AND GROUNDING IN ACCORDANCE WITH THE LATEST STANDARDS AS STATED ABOVE. BEFORE CONNECTING POWER CABLES TO MOTORS, THE INSULATION RESISTANCE OF ALL MOTOR WINDINGS SHALL BE TESTED IN ACCORDANCE WITH THE ABOVE STANDARDS.

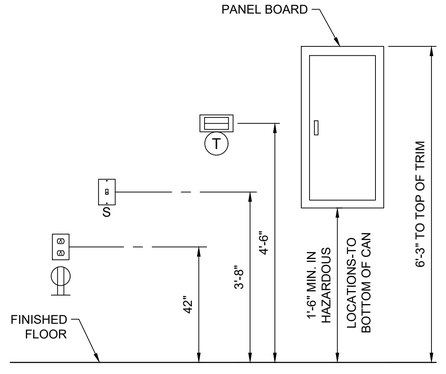
    23.C. ANY CONTRACTOR FURNISHED AND/OR INSTALLED SPLICE, RECOMMENDED VOLTAGE AND INSULATION RESISTANCE TESTS, SHALL BE CONNECTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

    23.D. NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TESTS AND ADJUSTMENTS HAVE BEEN MADE.

    23.E. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER.
24. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS.
25. ELECTRICAL FIELD STUB-UPS SHALL BE PROVIDED PER STANDARD DETAILS E2003 AND E2004.
26. JOINT TRENCH WORK TO INCLUDE INSTALLATION OF OTHER DRY UTILITIES (FIBER OPTICS, ELECTRICAL). COORDINATE WITH RELATED TRADES.
27. E.C. TO PROVIDE ELECTRICAL REQUIREMENTS FOR SPECIAL PROJECT CONSTRAINTS. REFERENCE SPECIFICATION 01 35 13 1.6.



E001 LEGENDS AND SCHEDULES
N.T.S.



E002 MOUNTING HEIGHT DETAIL
N.T.S.

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EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL NOTES & SYMBOLS

DRAWN: ACM | CHECK: BMC

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 103

FIGURE NO. E-001

PRINTED: 4/29/2026 8:26 PM
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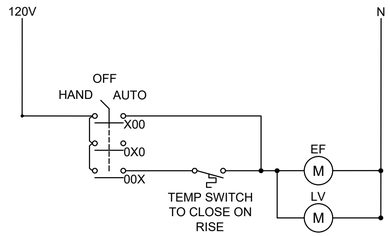
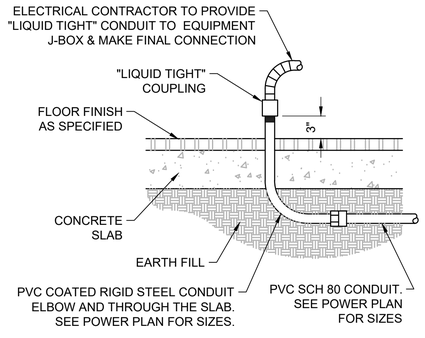


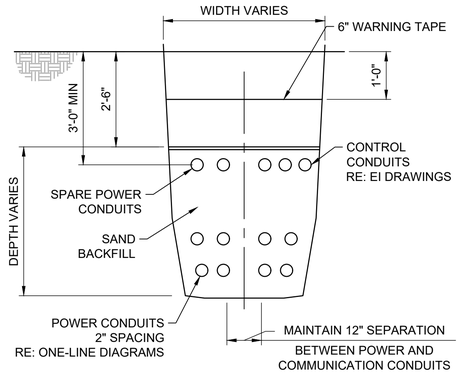
A1 STANDARD FAN-LOUVER CONTROL SCHEMATIC

N.T.S.



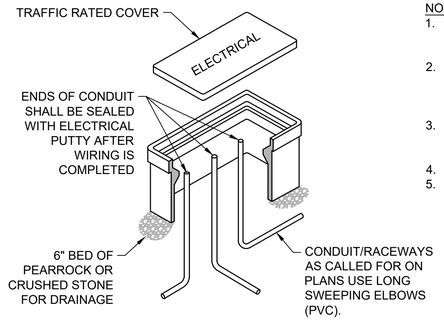
E2004 TYPICAL CONDUIT STUB-UP

N.T.S.



E2005 STANDARD ELECTRICAL DUCT BANK DETAIL

N.T.S.

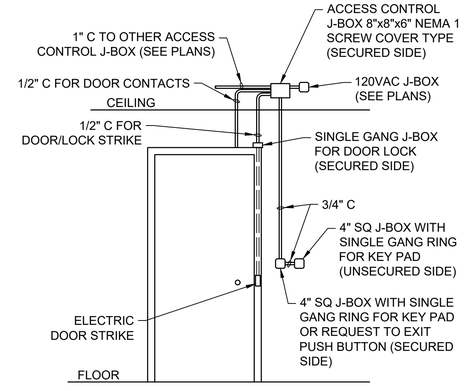


TOGETHER, GROUND WIRE TO BE 3" DIRECTLY ABOVE CONDUIT.

E2008 ELECTRICAL PULLBOX

N.T.S.

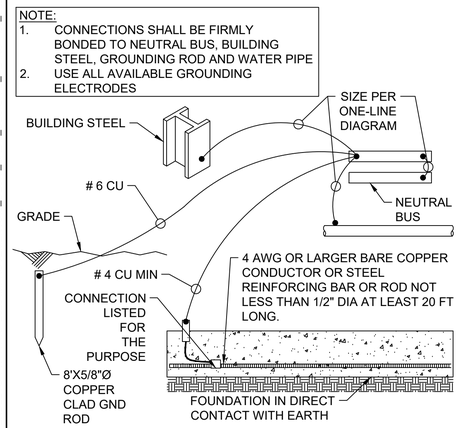
NOTES:
1. CONDUITS NOT TERMINATING IN OR AT PULLBOXES NEED NOT RUN THROUGH PULLBOXES UNLESS REQUIRED FOR PULLING PER NEC.
2. INSIDE DIMENSIONS TO BE:
   - 10-1/2" x 17-1/4"
   - 13" x 24"
   - 17" x 28"
3. COVER TO BE PROVIDED:
   - CAST IRON TRAFFIC COVER
   - CONCRETE PEDESTRIAN COVER
4. PROVIDE EXTENSIONS AS REQUIRED.
5. PULLBOX TO BE PRECAST; CARSON INDUSTRIES, OLDCASTLE, OR QUAZITE BY HUBBLE POWER SYSTEMS.



E9005 ACCESS CONTROL CONDUIT FOR CARD READER SYSTEM

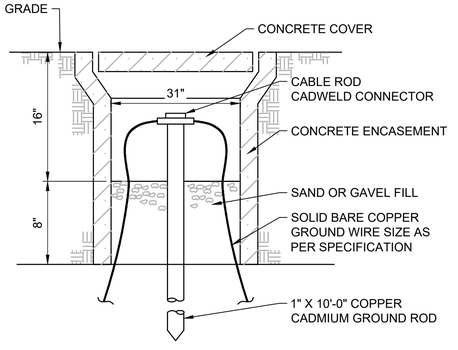
N.T.S.

NOTE:
1. CONNECTIONS SHALL BE FIRMLY BONDED TO NEUTRAL BUS, BUILDING STEEL, GROUNDING ROD AND WATER PIPE
2. USE ALL AVAILABLE GROUNDING ELECTRODES



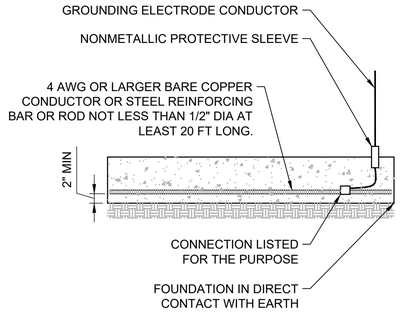
E0001 GROUNDING SYSTEM

N.T.S.



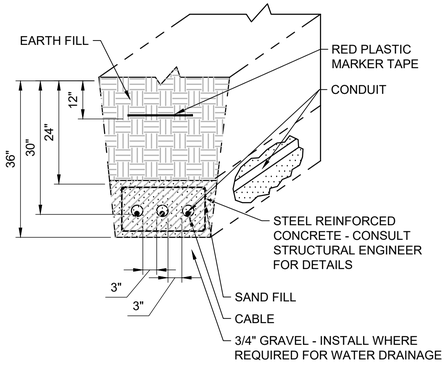
E0002 GROUNDING ROD INSPECTION BOX (LOCK BOX)

N.T.S.



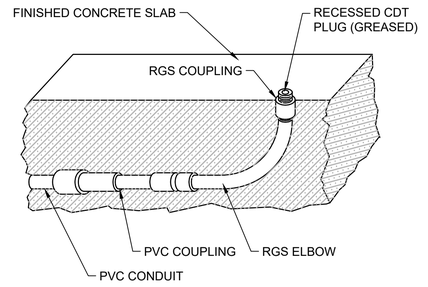
E0003 CONCRETE ENCASED ELECTRODE

N.T.S.



E2002 INSTALLATION OF CONCRETE ENCASED UNDERGROUND CONDUIT

N.T.S.



E2003 INSTALLATION OF PVC CONDUIT EMERGING FROM CONCRETE SLAB

N.T.S.

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NOV. 13, 2012
ADAM L. NEIWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL STANDARD DETAILS

DRAWN: ELK | CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 104

FIGURE NO. E-501

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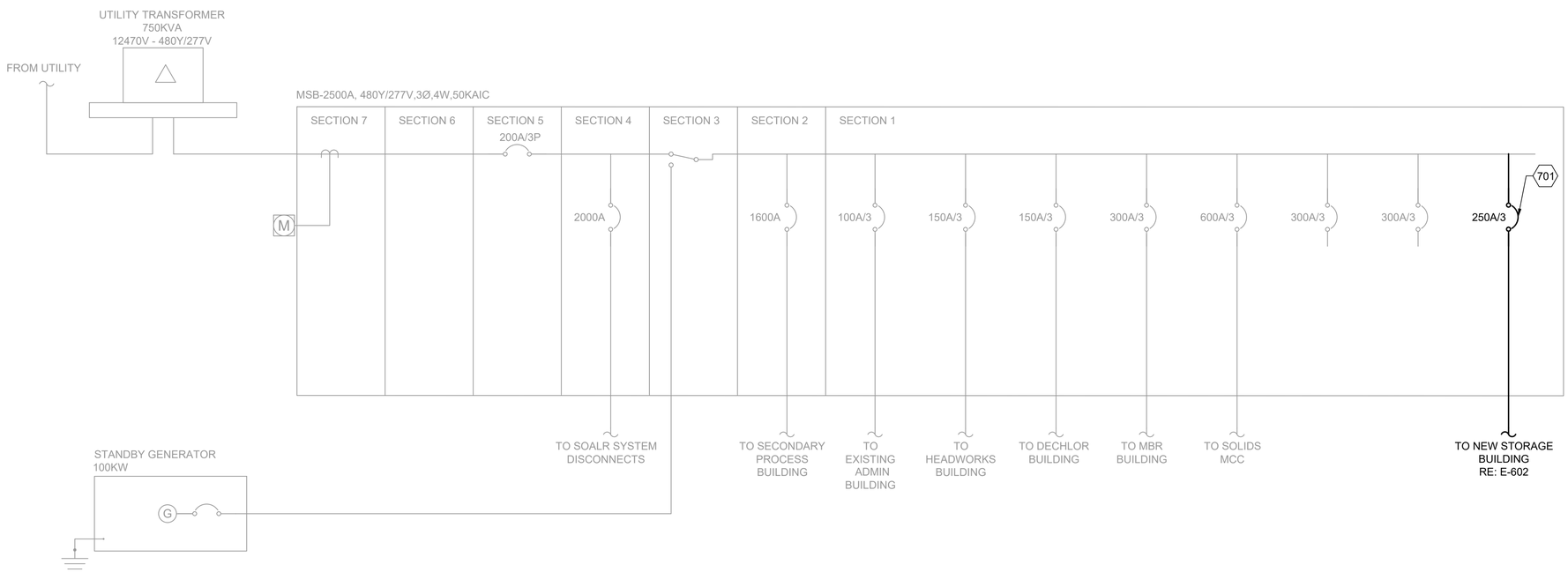

A1 ONE-LINE DIAGRAM

N.T.S.

GENERAL SHEET NOTES

1. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
2. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
3. CONCEAL ALL RACEWAYS WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
4. ROUTE CONDUIT IN COMMON TRENCH WHENEVER POSSIBLE.
5. COORDINATE WITH SCADA INTEGRATOR.
6. CONTRACTOR SHALL PROVIDE & CHECK CIRCUIT BREAKER POSITIONS.
7. CONTRACTOR SHALL PROVIDE NEW UPDATED DIRECTORIES FOR ALL PANELS IN WHICH CIRCUITS ARE ADDED OR REMOVED. DELETED CIRCUITS SHALL BE MARKED SPARE.
8. ALL ELECTRICAL EQUIPMENT SHALL BE FIELD MARKED PER THE NEC 110.16 “POTENTIAL ELECTRIC ARC FLASH HAZARD”.
9. CONTRACTOR SHALL FURNISH THE FOLLOWING STUDIES AS PART OF THE CONSTRUCTION PACKAGE.
   - o SHORT CIRCUIT STUDY
   - o COORDINATE STUDIES BASED ON ELECTRICAL SWITCHGEAR PROVIDED FOR PROJECT
   - o ARC FLASH STUDY
10. CONTRACTOR SHALL SET ALL CIRCUIT BREAKER TRIP DEVICES BASED ON COORDINATION STUDIES.

SHEET KEYNOTES

701 EXISTING 3 PHASE 50A BREAKER IN MSB TO BE REPLACED WITH 250A/3 BREAKER TO FEED NEW ADMINISTRATION BUILDING.

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NOV. 13, 2010
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EXPIRES: 12-31-2026

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL ONE LINE DIAGRAM

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 105

FIGURE NO. E-601

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GENERAL SHEET NOTES

1. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
2. COORDINATE WORK AND ROUGH-IN LOCATIONS WITH RELATED TRADES.
3. CONCEAL ALL RACEWAYS WITHIN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE INDICATED.
4. ROUTE CONDUIT IN COMMON TRENCH WHENEVER POSSIBLE.
5. CONTRACTOR SHALL PROVIDE & CHECK CIRCUIT BREAKER POSITIONS.
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7. ALL ELECTRICAL EQUIPMENT SHALL BE FIELD MARKED PER THE NEC 110.16 “POTENTIAL ELECTRIC ARC FLASH HAZARD”.

SHEET KEYNOTES

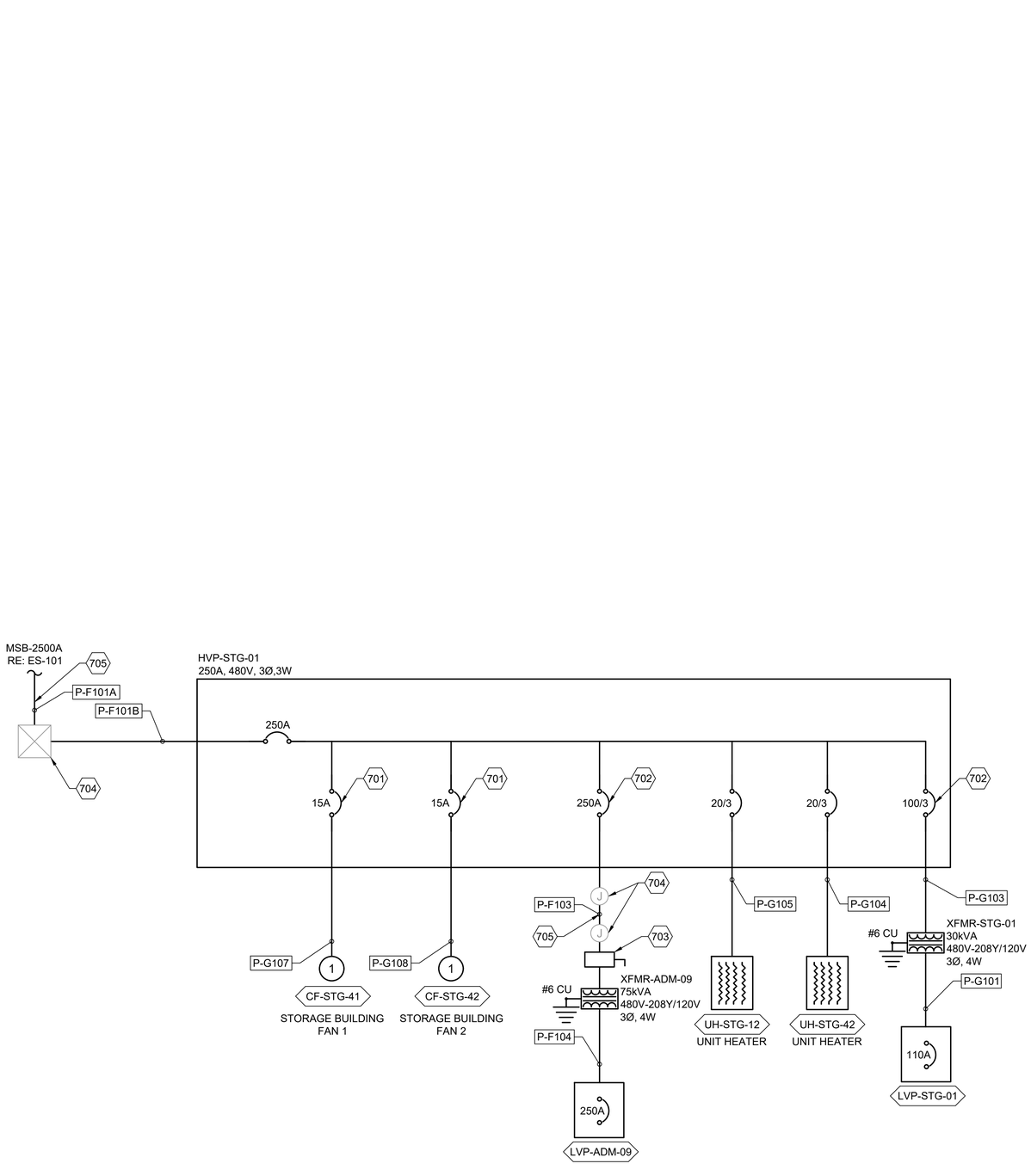
701 BREAKERS TO BE PROVIDED WITH LOCK OUT/TAG OUT PROVISIONS.

702 PRIMARY BREAKER SERVING TRANSFORMER SHALL BE PROVIDED AT THE AMPERE RATING SHOWN, SIZED IN ACCORDANCE WITH NEC 450.3. FINAL BREAKER SETTINGS SHALL BE ADJUSTED AS REQUIRED BY COORDINATION AND ARC FLASH STUDIES.

703 PROVIDE 100A, FUSED, NEMA 1 DISCONNECT FOR LOW VOLTAGE TRANSFORMER.

704 CONTRACTOR TO ROUTE CONDUIT TO EXISTING PULLBOX. COORDINATE WITH OWNER FOR CLOSEST LOCATION TO NEW BUILDING.

705 CONTRACTOR TO USE EXISTING SPARE CONDUIT BETWEEN PULLBOXES AND VERIFY IN FIELD. RE: ES-101



A1 ONE-LINE DIAGRAM

N.T.S.

KELLER ASSOCIATES
1060 Jadwin Avenue, Suite 375
Richland WA, 99352
(509) 940-2080

REGISTERED PROFESSIONAL ENGINEER
87153PE
Digitally Signed 2026.05.01 10:26:31-06'00'
OREGON
NOV. 13, 2012
ADAM L. NEIWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL ONE LINE DIAGRAM

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 106

FIGURE NO. E-602

PANEL NAME: HVP-STG-01

VOLTAGE: 480V **BUS:** 400A **NOTES:**
LOCATION: ADMIN BUILDING **PHASE & WIRE:** 3PH 3W **FEED:** BOTTOM
FED FROM: MSB-2500A **AIC RATING:** 18K **MAIN BREAKER:** 250A 1 LOTO
MOUNTING: SURFACE **ENCLOSURE:** N1 **SPACES:** 30

NOTES	CIRCUIT DESCRIPTION	CODE	LOAD	POLE	BKR	CKT	PH	CKT	BKR	POLE	LOAD	CODE	CIRCUIT DESCRIPTION	NOTES
	XFMR-STG-01		6156	3	110	1	A	2	15	3	248	C	CF-G401 STORAGE BLD	1
			11363			3	B	4			248	C		
			11600			5	C	6			248	C		
	UH-STG-12	H	1667	3	20	7	A	8	15	3	248	C	CF-G402 STORAGE BLD	1
		H	1667			9	B	10			248	C		
		H	1667			11	C	12			248	C		
	UH-STG-42	H	1667	3	20	13	A	14	250	3	20664		XFMR-ADM-09	
		H	1667			15	B	16			16080			
		H	1667			17	C	18			21420			
	SPARE			3	20	19	A	20					SPACE	
						21	B	22						
						23	C	24						
	SPARE			3	20	25	A	26					SPACE	
						27	B	28						
						29	C	30						

CONNECTED VA PHASE A:	30650	% CONNECTED VA PHASE A:	31%
CONNECTED VA PHASE B:	31273	% CONNECTED VA PHASE B:	32%
CONNECTED VA PHASE C:	36850	% CONNECTED VA PHASE C:	37%

TOTAL VA:	98773		
CONNECTED AMPS:	119		
DIVERSITY:	0.98	DIVERSIFIED AMPS:	117

PANEL NAME: LVP-STG-01

VOLTAGE: 208Y/120 **BUS:** 125A **NOTES:**
LOCATION: STORAGE BUILDING **PHASE & WIRE:** 3PH 4W **FEED:** BOTTOM 1 EQUIPMENT TO BE LOOP FED IN FIELD
FED FROM: XFMR-STG-01 **AIC RATING:** 10K **MAIN BREAKER:** 110A
MOUNTING: SURFACE **ENCLOSURE:** N1 **SPACES:** 30

NOTES	CIRCUIT DESCRIPTION	CODE	LOAD	POLE	BKR	CKT	PH	CKT	BKR	POLE	LOAD	CODE	CIRCUIT DESCRIPTION	NOTES
	CHEMICAL STORAGE ROOM LIGHT	L	267	1	20	1	A	2	20	1	433	L	MAIN STORAGE ROOM LIGHTS	
	PPE AND STORAGE ROOM LIGHTS	L	234	1	20	3	B	4	20	1	720	R	CHEMICAL STORAGE ROOM RECPT	
	MAIN STORAGE ROOM RECPT	R	900	1	20	5	C	6	20	1	540	R	PPE STORAGE ROOM RECPT	
	OUTDOOR WALL PACKS	L	96	1	20	7	A	8	20	1	360	R	STORAGE ROOM RECPT	
1	HYDRONIC UNIT HEATERS (X2)	H	32	1	20	9	B	10	20	1	180		MINI SPLIT RECPT	
	EXHAUST FAN #1 EF-STG-11	C	186	1	20	11	C	12	20	1	267	L	MEZZANINE LIGHTS	
	WH-G101		4500	3	50	13	A	14	20	1			SPARE	
			4500			15	B	16	50	2	5197	C	CU/FN-STG-51 MINI SPLIT	
			4500			17	C	18			5197	C		
	SPARE			3	20	19	A	20	20	1	500		DOOR STRIKE	
						21	B	22	20	1	500		DNE-STG-01	
						23	C	24	20	1	10		SMOKE DETECTOR	
	SPARE			1	20	25	A	26					SPACE	
	SPARE			1	20	27	B	28					SPACE	
	SPARE			1	20	29	C	30					SPACE	

CONNECTED VA PHASE A:	6156	% CONNECTED VA PHASE A:	21%
CONNECTED VA PHASE B:	11363	% CONNECTED VA PHASE B:	39%
CONNECTED VA PHASE C:	11600	% CONNECTED VA PHASE C:	40%

TOTAL VA:	29119		
CONNECTED AMPS:	81		
DIVERSITY:	1.02	DIVERSIFIED AMPS:	82

PANEL NAME: LVP-ADM-09

VOLTAGE: 208Y/120 **BUS:** 400A **NOTES:**
LOCATION: ADMIN BUILDING **PHASE & WIRE:** 3PH 4W **FEED:** BOTTOM 1 MARK AS 'FIRE ALARM CIRCUIT'
FED FROM: XFMR-ADM-09 **AIC RATING:** 10K **MAIN BREAKER:** 300A 2 BREAKER LOCKED IN 'ON' POSITION
MOUNTING: SURFACE **ENCLOSURE:** N1 **SPACES:** 54 3 GFCI BREAKER FOR PERSONNEL PROTECTION 5mA

NOTES	CIRCUIT DESCRIPTION	CODE	LOAD	POLE	BKR	CKT	PH	CKT	BKR	POLE	LOAD	CODE	CIRCUIT DESCRIPTION	NOTES
	BREAK/BATH ROOM LIGHTS	L	707	1	20	1	A	2	20	1	271	L	ELEC/STORAGE/UTILITY ROOM LIGHTS	
	CONFERENCE/ OFFICE LIGHTS	L	266	1	20	3	B	4	20	1	164	L	OFFICE/OPS ROOM LIGHTS	
	HALLWAY/ OUTDOOR LIGHTS	L	212	1	20	5	C	6	20	1	1800	R	BREAK ROOM RECPT	
	OFFICE 06 AND 08 RECPT	R	720	1	20	7	A	8	20	1	1440	R	CONFERENCE ROOM RECPT	
	STORAGE/BATHROOM RECPT	R	720	1	20	9	B	10	20	1	1620	R	OFFICE 02 AND LOBBY RECPT	
	OPERATIONS ROOM RECPT	R	1440	1	20	11	C	12	20	1	540	R	ELECTRICAL ROOM RECPT	
3	REFRIGERATOR RECPT	R	500	1	20	13	A	14	20	1	1440	R	WASHING MACHINE	3
	CU-ADM-91 ELEC MINI SPLIT	C	3963	2	40	15	B	16	20	1	900	R	BATHROOMS	3
		C	3963			17	C	18	20	1	100		EF-ADM-51 BATHROOM FAN	
	AHU-ADM-71 AIR HANDLER		1081	2	20	19	A	20	20	3			SPARE	
			1081			21	B	22						
	CU-ADM-71 AIR HANDLER	C	6845	2	50	23	C	24						
		C	6845			25	A	26	50	2	6000		RANGE	3
	EVR-ADM-11 VENTILATOR		186	1	20	27	B	28			6000			
3	DISHWASHER	R	1800	1	20	29	C	30	20	1	2500		GAS DRYER	3
1, 2	FIRE CONTROL PANEL		500	1	20	31	A	32	20	1			SPARE	
	DOOR STRIKE		500	1	20	33	B	34	20	1	180		MINI SPLIT RECPT	
3	REFRIGERATOR RECPT		500	1	20	35	C	36	20	1	1000		GARBAGE DISPOSAL	3
	HALLWAY RECP		360	1	20	37	A	38	20	1	800		MICROWAVE	
						39	B	40	20	1	500		DNE-ADM-09	
						41	C	42	20	1	720		OPERATIONS ROOM RECEPT	
						43	A	44						
						45	B	46						
						47	C	48						
	SPACE FOR FUTURE SOLAR					49	A	50						
						51	B	52						
						53	C	54						

CONNECTED VA PHASE A:	20664	% CONNECTED VA PHASE A:	36%

PANEL NAME: LVP-ADM (EXISTING)

VOLTAGE: **BUS:** 125A **NOTES:**
LOCATION: ADMIN BUILDING (EXST) **PHASE & WIRE:** 3PH 4W **FEED:** BOTTOM 2 PROVIDE NEW BREAKER
FED FROM: **AIC RATING:** 10K **MAIN BREAKER:** 100A 3 GFCI BREAKER FOR PERSONNEL PROTECTION 5mA
MOUNTING: FLUSH **ENCLOSURE:** N1 **SPACES:** 24

NOTES	CIRCUIT DESCRIPTION	CODE	LOAD	POLE	BKR	CKT	PH	CKT	BKR	POLE	LOAD	CODE	CIRCUIT DESCRIPTION	NOTES
3	WEST WALL RECEP			1	20	1	A	2	30	2			WATER HEATER	
	NORTH WALL RECEP			1	20	3	B	4						
	HALL RECEP			1	20	5	C	6	15	1			HALL/EAST LAB RECEP	3
3	AUTO CLAVE			1	20	7	A	8	20	1			EAST LAB RECEP	3
3	ISLAND IN LAB			1	20	9	B	10	20	1			SOUTH WALL RECEP	3
	LAB COMPUTER			1	20	11	C	12	30	2			STILL	3
	SOUTHWEST SMALL LAB RECEP			1	20	13	A	14						
	CONFERENCE ROOM RECEP			1	20	15	B	16	20	1			LAB REFRIGERATOR	
	FURNANCE			2	20	17	C	18	20	1			FLASK SCRUBBER	
						19	A	20	20	1	500		WATER FOUNTAIN	2, 3
	SMALL LAB HOOD			1	20	21	B	22	20	1			RECEP ON HOOD	
	FAN ON HOOD			1	20	23	C	24	20	1			SMALL HOOD - SMALL LAB	3

CONNECTED VA PHASE A:	500	% CONNECTED VA PHASE A:	100%
CONNECTED VA PHASE B:	0	% CONNECTED VA PHASE B:	0%
CONNECTED VA PHASE C:	0	% CONNECTED VA PHASE C:	0%

TOTAL VA:	500		
CONNECTED AMPS:	1		
DIVERSITY:	1.00	DIVERSIFIED AMPS:	1

KELLER ASSOCIATES
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REGISTERED PROFESSIONAL ENGINEER
87153PE
Digitally Signed 2026.05.01 07:25:06-08'00'
OREGON
NOV. 13, 2010
ADAM L. NEWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL PANEL SCHEDULES

DRAWN: ELK CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 107

FIGURE NO. E-603

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CADD\3_DESIGN\D_PLANS-1108_ELEC\OPSIE-603.DWG LAST SAVED: 4/29/2026 12:07 PM PRINTED: 4/29/2026 8:29 PM

ELECTRICAL CABLE AND CONDUIT SCHEDULE

CONDUIT TAG	REF. SHEET	CONDUIT SPEC*	CABLE SPEC	SERVICE	DESCRIPTION	ORIGIN	DESTINATION	NOTES
P-B101	ES-101, E-101-B2	1" (EXST)	(3) #4 CU, #6 CU GND	240V	SAMPLER BUILDING MAIN FEED	LPB-DEC-01	LVP-SMP-01	ROUTE THROUGH EXISTING CONDUIT
P-B102	E-101-B2	3/4"	(2)#12 CU, #12 CU GND	120V	SAMPLER FEED	LVP-SMP-01	SMP-CCC-01	RE-FEED EXISTING EQUIPMENT
P-B103	E-101-B2	EXIST	EXIST	120V	SAMPLER SHED EXISTING LIGHTS/ RECEP	LVP-SMP-01	SAMP BLDG LIGHTS	RECONNECT EXISTING CIRCUIT TO NEW PANEL
P-B104	E-101-B2	EXIST	EXIST	120V	SAMPLER SHED EXISTING HEATER	LVP-SMP-01	SAMP BLDG HTR	RECONNECT EXISTING CIRCUIT TO NEW PANEL
P-B105	E-101-B2	3/4"	EXIST	EXIST	RELOCATED FLOW METER	EXIST	FIT-CCC (E)	PROVIDE NEW WIRING FOR COMPLETE CONTINUITY OF RELOCATED EQUIPMENT
P-B106	E-101-B2	3/4"	EXIST	EXIST	RELOCATED IRRIGATION CONTROLLER	EXIST	LCP-IRR (E)	PROVIDE NEW WIRING FOR COMPLETE CONTINUITY OF RELOCATED EQUIPMENT
P-B107	E-101-B2	3/4"	EXIST	EXIST	RELOCATED TEMPERATURE GAUGE	EXIST	TG-CCC (E)	PROVIDE NEW WIRING FOR COMPLETE CONTINUITY OF RELOCATED EQUIPMENT
P-F101A/B	ES-101, E-602, E-101-G	(2) 2" (EXIST/ NEW)	(3) #2/0 CU , #1 CU GND	480V	STORAGE BUILDING FEED	MSB-2500A	HVP-STG-01	ROUTE IN EXISTING CONDUIT TO EXISTING BULLBOX, INSTALL NEW TO BUILDING
P-F102	ES-101	(3) 1"	PULLCORD	480V	SPARE FOR FUTURE	HVP-STG-01	PULLBOX (EXST)	
P-F103	ES-101, E-602	2"	(3) #250 KCMIL, #4 CU GND	480V	LOW VOLTAGE TRANSFORMER FEED	HVP-STG-01	XFMR-ADM-09	ROUTE THROUGH DISCONNECT AND EXISTING PULLBOX
P-F104	E-602	3"	(4) 250 KCMIL, #2 CU GND	120/208V	ADMINISTRATION BUILDING LOW VOLTAGE PANEL	XFMR-ADM-09	LVP-ADM-09	
P-F105	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	ENERGY RECOVERY UNIT FEED	LVP-ADM-09	ERV-ADM-11	
P-F106	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	EXHAUST FAN FEED	LVP-ADM-09	EF-ADM-51	
P-F107	E-101-F	3/4"	(2) #8 CU, #10 CU GND	208V	CONDENSER UNIT 1 FEED	LVP-ADM-09	CU-ADM-91	
P-F108	E-101-F	3/4"	(2) #8 CU, #10 CU GND	208V	CONDENSER UNIT 2 FEED	LVP-ADM-09	CU-ADM-71	
P-F109	E-101-F	3/4"	(2) #14 CU, #14 CU GND	208V	MINI SPLIT UNIT FEED	CU-ADM-91	FN-ADM-91	
P-F110	E-101-F	3/4"	(2) #12 CU, #12 CU GND	208V	FURNACE	LVP-ADM-09	AHU-ADM-71	
P-F111	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	REFRIGERATOR	LVP-ADM-09	RECP	
P-F112	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	DISHWASHER	LVP-ADM-09	RECP	
P-F113	E-101-F	3/4"	(2) #8 CU, #10 CU GND	208V	RANGE	LVP-ADM-09	RECP	
P-F114	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	BREAK ROOM RECEPTACLE	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F115	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	WATER FOUNTAIN, AND LOCKER ROOM RECEPTACLES	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F116	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	ELECTRICAL ROOM RECEPTACLES	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F117	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	STORAGE AND BATHROOM RECEPTACLE	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F118	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	OFFICE ROOM 02 AND LOBBY RECEPTACLE	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F119	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	CONFERENCE ROOM RECEPTACLE	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F120	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	OFFICE ROOMS 06 AND 08 RECEPTACLE	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F121	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	OPERATIONS ROOM RECEPTACLE	LVP-ADM-09	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-F122	E-101-F	3/4"	(2) #10 CU, #10 CU GND	208V	DRYER	LVP-ADM-09	RECP	
P-F123	E-101-F	3/4"	(2) #12 CU, #12 CU GND	120V	WASHER	LVP-ADM-09	RECP	
P-F124	E-102-F	3/4"	(2) #12 CU, #12 CU GND	120V	FIRE ALARM CONTROL PANEL	LVP-ADM-09	FACP-ADM-09	RACEWAY TO BE IDENTIFIED PER NEC 760
P-F125	E-101-F	3/4"	(2)#12 CU, #12 CU GND	120V	OPERATIONS BUILDING MAIN DOOR ELECTRICAL STRIKE	LVP-STG-01	DOOR	COORDINATE WITH OWNER FOR FINAL ROUTING OF POWER
P-F126	E-101-F	3/4"	(2)#12 CU, #12 CU GND	120V	REFRIGERATOR	LVP-ADM-09	RECP	
P-F127	N/A	3/4"	(2)#12 CU, #12 CU GND	120V	MICROWAVE / HOOD	LVP-ADM-09	RECP	
P-F128	E-101-F	3/4"	(2)#12 CU, #12 CU GND	120V	DATA NETWORK ENCLOSURE	LVP-ADM-09	DNE-ADM-09	
P-F129	N/A	(2) 1"	PULLCORD	120V	SPARE FOR FUTURE	LVP-ADM-09	ATTIC	
P-F130	N/A	(2) 1"	PULLCORD	120V	SPARE FOR FUTURE	LVP-ADM-09	CRAWL SPACE	
P-G101	E-101-G, E-602	1 1/2"	(4) #4 CU, #8 CU GND	120/208V	STORAGE BUILDING LOW VOLTAGE PANEL	XFMR-STG-01	LVP-STG-01	
P-G102	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	STORAGE BUILDING UNIT HEATER	LVP-STG-01	UH-STG-41	
P-G103	ES-101 E-602	1 1/2"	(3)# 3 CU, #8 CU GND	480V	STORAGE BUILDING TRANSFORMER	HVP-STG-01	XFMR-STG-01	
P-G104	E-101-G, E-602	3/4"	(3) #12 CU, #12 CU GND	480V	STORAGE BUILDING ELECTRIC UNIT HEATER	HVP-STG-01	UH-STG-42	
P-G105	E-101-G, E-602	3/4"	(3) #12 CU, #12 CU GND	480V	STORAGE BUILDING ELECTRIC UNIT HEATER	HVP-STG-01	UH-STG-12	
P-G106	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	STORAGE BUILDING UNIT HEATER	UH-STG-41	UH-STG-11	EQUIPMENT TO BE LOOP FED IN FIELD
P-G107	E-101-G, E-602	3/4"	(3) #12 CU, #12 CU GND	480V	STORAGE BUILDING FAN #1	HVP-STG-01	CF-STG-41	
P-G108	E-101-G, E-602	3/4"	(3) #12 CU, #12 CU GND	480V	STORAGE BUILDING FAN #2	HVP-STG-01	CF-STG-42	
P-G109	E-101-G	3/4"	(3)#8 CU, #10 CU GND	208V	STORAGE BUILDING WATER HEATER	LVP-STG-01	WH-STG-11	
P-G110	E-101-G	3/4"	(2)#8 CU, #10 CU GND	208V	PPE ROOM MINI SPLIT	LVP-STG-01	CU-STG-51	
P-G111	E-101-G	3/4"	(2) #14 CU, #14 CU GND	120V	INDOOR UNIT FEED	CU-STG-51	FN-STG-51	CONTRACTOR TO COORDINATE WITH MANUFACTURE RECOMMENDED WIRING
P-G112	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	HOA SWITCH FOR CHEMICAL STORAGE ROOM #1	LVP-STG-01	HOA	
P-G113	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	STORAGE ROOM #1 EXHAUST FAN	HOA	EF-STG-11	RE: E-501 WIRE DETAIL
P-G114	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	STORAGE ROOM #1 LOUVER	HOA	LV-STG-09	RE: E-501 WIRE DETAIL
P-G115	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	CHEMICAL ROOM #1 RECEPTACLES	LVP-STG-01	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-G116	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	MAIN STORAGE ROOM RECEPTACLES	LVP-STG-01	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-G117	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	STORAGE ROOM #1 RECEPTACLES	LVP-STG-01	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-G118	E-101-G	3/4"	(2) #12 CU, #12 CU GND	120V	PPE ROOM RECEPTACLES	LVP-STG-01	RECP	RECEPTACLES TO BE LOOP FED IN FIELD
P-G119	E-101-G	3/4"	(2)#12 CU, #12 CU GND	120V	STORAGE BUILDING DOOR ELECTRICAL STRIKE	LVP-STG-01	DOOR	COORDINATE WITH OWNER FOR FINAL ROUTING OF POWER
P-G120	ES-101	(3) 1"	PULLCORD	120V	SPARE FOR FUTURE	LVP-STG-01	PULLBOX (EXST)	
P-G121	E-101-G	3/4"	(2) #14 CU, #14 CU GND	120V	STORAGE BUILDING ELECTRICAL ROOM AC	CU-STG-51	FN-STG-61	CONTRACTOR TO COORDINATE WITH MANUFACTURE RECOMMENDED WIRING
P-G122	E-101-G	3/4"	(2)#12 CU, #12 CU GND	120V	DNE POWER	LVP-STG-01	DNE-STG-01	
P-G123	E-101-G	3/4"	(2)#12 CU, #12 CU GND	120V	STORAGE BUILDING SMOKE DETECTOR	LVP-STG-01	SMOKE DETECTOR	
P-H101	E-101-H	3/4"	(2)# 12 CU, #12 CU GND	120V	EXISTING ADMIN LIGHT/ SWITCH	LVP-ADM	LIGHT / SWITCH	ROUTE LIGHT FEED THROUGH SWITCH
P-H102	E-101-H	3/4"	(2) #12 CU, #12 CU GND	120V	EXISTING ADMIN BUILDING, NEW DRINKING FOUNTAIN	LVP-ADM	RECP	

***NOTE: CONDUIT SPECIFICATION IS INDICATIVE OF THE TYPE OF INSTALLATION REQUIRED FOR MAJORITY OF CABLE ROUTING. EC IS RESPONSIBLE FOR ALL WIRING METHODS AND MATERIALS INCLUDING CONDUIT TRANSITIONS, SUPPORTS, PENETRATIONS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION AND MEETING ALL REQUIREMENTS OF ARTICLE 300 OF THE NATIONAL ELECTRIC CODE.**

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REGISTERED PROFESSIONAL ENGINEER
87153PE
Digitally Signed 2026.05.01 07:21:26-08'00'
OREGON
NOV. 13, 2010
ADAM L. NEIWERT
EXPIRES: 12-31-2026

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

ELECTRICAL CABLE & CONDUIT SCHEDULE

DRAWN: ELK | CHECK: IID

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 108

FIGURE NO. E-604

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1108_ELEC\OPSIE-603.DWG LAST SAVED: 4/29/2026 12:07 PM PRINTED: 4/29/2026 8:29 PM

CONTROL CABLE AND CONDUIT SCHEDULE

CONDUIT TAG	REF. SHEET	CONDUIT SPEC*	CABLE SPEC	SERVICE	DESCRIPTION	ORIGIN	DESTINATION	NOTES
C-F101	ES-101	1" (EXIST / NEW)	MULTIMODE	COMM	FROM ISP	INTERNET SERVICE PROVIDER	DNE-ADM-09	COORDINATE WITH INTERNET SERVICE PROVIDER TO ROUTE TO NEW ADMIN BUILDING
C-F102	ES-101	1"	MULTIMODE	COMM	DATA NETWORK ENCLOSURE FIBER	DNE-ADM-09	EXISTING ADMIN BUIDLING	REFEED EXISTING ADMIN FROM NEW ADMIN BUILDING
C-F103	E-101-G, ES-101	1" (EXIST)	MULTIMODE	COMM	STORAGE BUILDING DATA NETWORK ENCLOSURE FIBER	DNE-ADM-09	DNE-STG-01	

***NOTE:** **CONDUIT SPECIFICATION IS INDICATIVE OF THE TYPE OF INSTALLATION REQUIRED FOR THE MAJORITY OF THE CABLE ROUTING. EC IS RESPONSIBLE FOR ALL WIRING METHODS AND MATERIALS INCLUDING CONDUIT TRANSITIONS, SUPPORTS, PENETRATIONS, ETC., AS REQUIRED FOR A COMPLETE INSTALLATION AND MEETING ALL REQUIREMENTS OF ARTICLE 300 OF THE NATIONAL ELECTRIC CODE.**
EC MAY COMBINE LOW VOLTAGE SIGNAL CABLES IN SAME CONDUITS AND RACEWAYS WHERE APPROPRIATE FOR ROUTING AND MAY INCREASE CONDUIT SIZE AS NEEDED FOR GROUPED CABLES. INSTRUMENT, SIGNAL, AND NETWORK CABLES ARE TO BE SEPARATED FROM POWER CONDUCTORS. MINIMUM EMT SIZE 3/4" UNLESS OTHERWISE SPECIFIED.
CABLE VOLTAGE > 50V SHALL BE ROUTED IN A SEPARATE RACEWAY OR SEGREGATED VIA PHYSICAL BARRIER SEPARATION AND/OR MINIMUM DISTANCE OF 12 IN. FROM SIGNAL CABLES, MAINTAINED FOR ENTIRE LENGTH OF CABLE RUN.

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OREGON
MAY 11, 2021
BRADLEY M. CULVER
EXPIRES: 12-31-2027

NO.	REVISIONS	DATE

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

CONTROLS CABLE AND CONDUIT SCHEDULE

DRAWN: ELK | CHECK: TF

VERIFY SCALE: Scales based on 22"x34" prints.
1-1/2 Inches

PROJECT NO. 225096-001 | 109

FIGURE NO. EI-601

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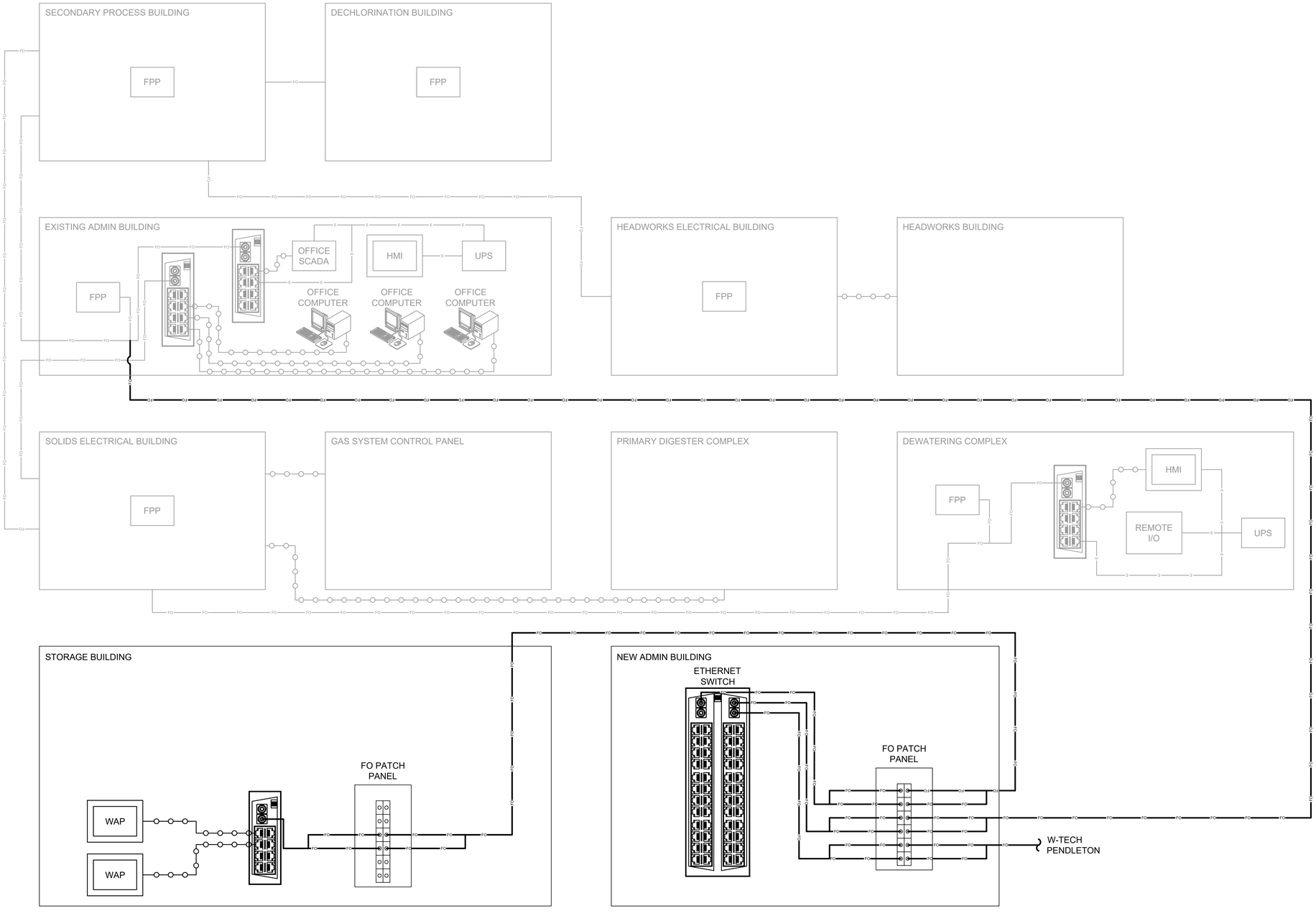

A1 NETWORK DIAGRAM

N.T.S.

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City of PENDLETON

PENDLETON OPERATIONS BUILDINGS IMPROVEMENTS

NETWORK DIAGRAM

DRAWN: ELK | CHECK: TF

VERIFY SCALE: Scales based on 22"x34" prints.

1-1/2 Inches

PROJECT NO. 225096-001 | 110

FIGURE NO. EI-700

J:\225096-001 - PENDLETON WWTRRF 2025 IMPROVEMENTS\C_DESN_CAD\3_DESIGN\D_PLANS-1\09_INSTR\OPS\EI-700.DWG LAST SAVED: 4/30/2026 10:30 AM PRINTED: 4/30/2026 10:32 AM