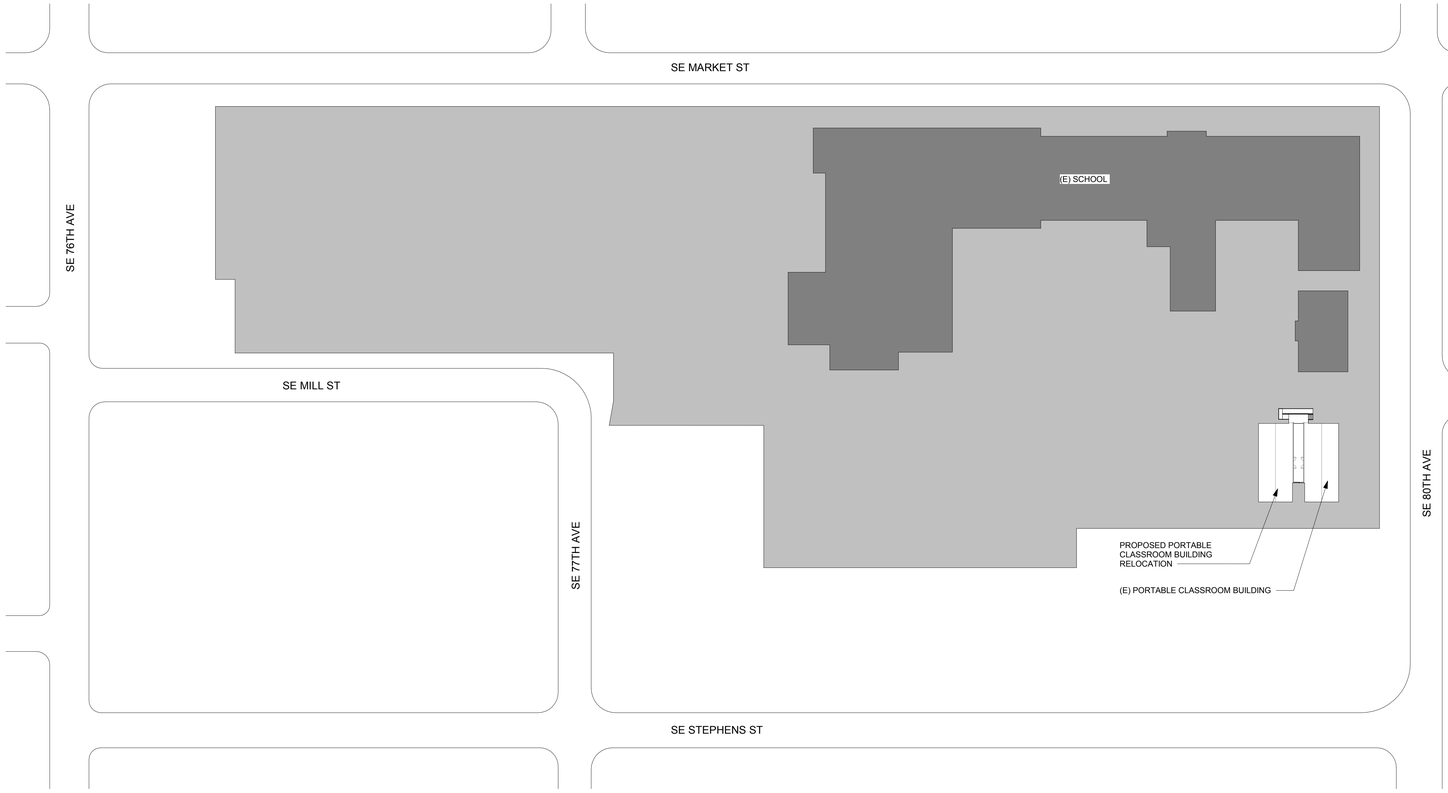
BRIDGER ELEMENTARY SCHOOL

7910 SE MARKET ST
PORTLAND, OR 97215

PPS PROJECT NO: MULT-2018-4572-FY18



1 G0.01B SITE PLAN - BRIDGER
1" = 50'-0"

PROJECT DIRECTORY

OWNER

PORTLAND PUBLIC SCHOOLS DISTRICT #1J

CONTACT: JERAD LILLEGARD
501 N. DIXON ST.
PORTLAND, OR 97227
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PHONE: (503) 916-3034

GENERAL CONTRACTOR

TBD

CONTACTS: TBD
EMAIL: TBD
PHONE: TBD

ARCHITECT

MACKENZIE

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FAX: (503) 228-1285

STRUCTURAL ENGINEERING

MACKENZIE

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CIVIL ENGINEER

MACKENZIE

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MECHANICAL / ELECTRICAL / PLUMBING

INTERFACE ENGINEERING

CONTACTS: STEVE DACUS, PROJECT MANAGER
100 SW MAIN ST, SUITE 1600
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EMAIL: steved@interface.com
PHONE: (503) 382-2266

DRAWING INDEX

GENERAL

G0.01B TITLE SHEET AND DRAWING INDEX
G0.02B PROJECT GENERAL NOTES, SYMOBLS, AND ABBREVIATIONS

CIVIL

C0.01B CIVIL NOTES AND LEGEND
C1.10B SITE, GRADING, + UTILITY PLAN
C5.10B CITY OF PORTLAND STANDARD DETAILS
C5.11B CIVIL DETAILS

ARCHITECTURAL

A0.01B TYPICAL DETAILS / DOOR SCHEDULE
A1.10B FOUNDATION PLAN & DETAILS
A1.11B FLOOR PLAN & BUILDING ELEVATIONS
A1.12B ROOF PLAN
A4.10B ENLARGED PLANS AND ELEVATIONS

MECHANICAL

M0.01B SYMBOLS LIST AND GENERAL NOTES - MECHANICAL
M1.11B FLOOR PLAN - BUILDING B - MECHANICAL

PLUMBING

P0.01B SYMBOLS LISTS AND GENERAL NOTES - PLUMBING
P1.11B LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

FIRE ALARM

FA0.01B SYMBOLS LISTS AND GENERAL NOTES - FIRE ALARM
FA1.01B SITE PLAN - BUILDING B - FIRE ALARM
FA1.11B LEVEL 1 FLOOR PLAN - BUILDING B - FIRE ALARM

ELECTRICAL

E0.01B SYMBOLS LISTS AND GENERAL NOTES - ELECTRICAL
E1.01B SITE PLAN - BUILDING B - POWER & SIGNAL
E1.02B SITE PLAN - BUILDING B - PGE PLAN
E1.11B LEVEL 1 FLOOR PLAN - BUILDING B - ELECTRICAL
E5.10B SINGLE LINE DIAGRAM & SCHEDULES - BUILDING B - ELECTRICAL

SITE INFORMATION

LEGAL DESCRIPTION: 1S2E05DA 11300

ADDRESS: 7730 SE MARKET ST
PORTLAND, OR 97215

PROJECT SCOPE

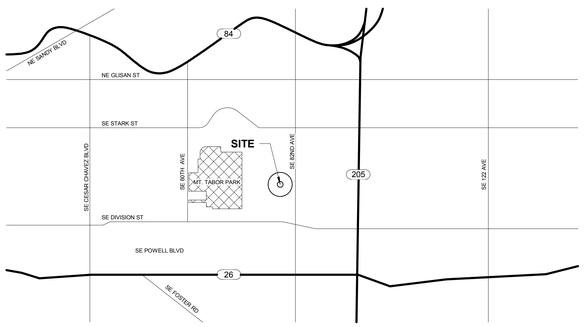
RELOCATION OF EXISTING PORTABLE CLASSROOM BUILDING FROM STORAGE FACILITY TO BRIDGER ELEMENTRY SCHOOL. SCOPE OF WORK FOR MODULARS TO INCLUDE SITE ELECTRICAL AND WASTE WATER CONNECTIONS, BUILDING FOUNDATIONS, ADA ACCESS RAMP, ADA UNISEX RESTROOMS WITHIN MODULAR, FINISH UPGRADES AND MEP UPGRADES.

SPECIAL INSPECTIONS

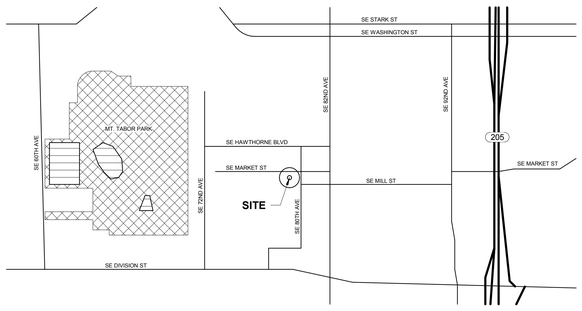
SEE SHEET A1.10B

ALTERNATES

1. NEW PAINT FOR ENTIRE MODULAR, A1.11B
2. INSTALL WALL TILE AND BASE INSTEAD OF FRP AND RUBBER BASE IN RESTROOMS
3. ADD CHAIN LINK FENCING AT PLANTER



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

Architecture ▪ Interiors
Planning ▪ Engineering

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Seattle, WA
206.749.9993
www.mcknze.com

MACKENZIE.
DESIGN DRIVEN | CLIENT FOCUSED

Client

Portland Public Schools District #1J

Project

PPS - Bridger Elementary School Modular Relocation

7910 SE Market St
Portland, OR 97215

Mechanical/Electrical
INTERFACE ENGINEERING, INC.
100 SW MAIN ST, SUITE 1600, PORTLAND, OR 97204
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REGISTERED ARCHITECT
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Revision Schedule

Revision Delta	Issue Date

SHEET TITLE:
TITLE SHEET AND DRAWING INDEX

DRAWN BY: QNR

CHECKED BY: CCB

SHEET

G0.01B

JOB NO. **2170276.00**

PERMIT/BID SET 4/24/18

C:\Users\mhb\Documents\Revit Projects\CURRENT PROJECTS\PPS Modulars\276-PPS_Modulars-L.rvt 4/23/2018 6:00:03 PM As indicated

STANDARD ABBREVIATIONS

@	AT
AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ADA	AMERICANS WITH DISIBILITIES ACT
ADD'L	ADDITIONAL
ADJ	ADJACENT/ ADJUSTABLE
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL / ALUM	ALUMINUM
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ATR	ALL-THREAD ROD
B/	BOTTOM OF
BATT	BATTEN INSULATION
BD	BOARD
BLD / BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCHMARK / BEAM
BN	BOUNDARY NAIL
BOT / BOTT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOFING
CAB	CABINET
CB	CATCH BASIN
CDF	CONTROLLED DENSITY FILL
CIP	CAST IRON
CJ	CONTROL JOINT
CL /	CENTERLINE
CLNG	CEILING
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNTR	CENTER
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRUGAT(ED) (ION)
CPT	CARPET
CRC	CHEMICAL RESISTANT COATING
CSK	COUNTERSINK
CSP	CONCRETE SEWER PIPE
CTOP	COUNTERTOP
CTR / CNTR	CENTER
CW	CONCRETE WALL
d	PENNY(NAILS)
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DC	DEMAND CRITICAL WELD
DET / DTL	DETAIL
DET/DTL	DETAIL
DF	DRINKING FOUNTAIN / DOUGLAS FIR
DIA / ø	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DP	DEEP
DR	DOOR
DS	DOWN SPOUT
DWG	DRAWING
DWLS	DOWELS
(E) / EXIST	EXISTING
E/	EDGE OF
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRICAL
ELEV	ELEVATION
EN	EDGE NAIL
ENGR	ENGINEER
EOP	EDGE OF PANEL
EP	EPOXY PAINT / EDGE OF PAVEMENT
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
ES	EACH SIDE
ETC	EPOXY TRAFFIC COATING / ETCETERA
EW	EACH WAY
EXP	EXPOSED STRUCTURE
EXP JT / EJ	EXPANSION JOINT
EXT	EXTERIOR
F/	FACE OF
F/STUD	FACE OF STUD
FB	FLAT BAR
FC	FACE OF CURB
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FF	FACTORY FINISH / FINISHED FACE
FFE	FINISH FLOOR ELEVATION
FIN	FINISH(ED)
FL	FLUSH
FLR	FLOOR
FM	FACTORY MUTUAL
FN	FIELD NAILING
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOIC	FURNISH BY OWNER INSTALL BY CONTRACTOR
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FS	FAR SIDE
FT	FEET/FOOT FIRE TREATED
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GEN	GENERAL
GLB	GLULAM BEAM
GLZ	GLAZING
GR	GRADE
GRD	GRID ONLY
GSA	U.S. GENERAL SERVICES ADMINISTRATION
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HC	HOLLOW CORE / HANDICAP
HCM	HOLLOW CLAY MASONRY
HDPE	HIGH DENSITY POLYETHELENE
HDR	HEADER
HDWR	HARDWARE
HGR	HANGER
HL	HALF LITE
HM	HOLLOW METAL
HMK	HOLLOW METAL KNOCKDOWN
HMW	HOLLOW METAL WELDED
HORIZ	HORIZONTAL
HR(S)	HOUR(S)
HS	HEADED STUD
HSB	HIGH STRENGTH BOLT
HSS	HOLLOW STRUCTURAL STEEL
HTG	HEATING
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
HWS	HEADED WELD STUD
IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERNATIONAL MECHANICAL CODE
INFO	INFORMATION
INSP	INSPECTION / INSPECTOR
INSUL	INSULATION
INT	INTERIOR
IPC	INTERNATIONAL PLUMBING CODE
JNT	JOINT
JST	JOIST
K	KIPS
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
LAM	LAMINATE
LAV	LAVATORY
LB	LAG BOLT
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
LONG / LONGIT	LONGITUDINAL
LP	LOWPOINT
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
LWC	LIGHTWEIGHT CONCRETE
M	MIRROR
M/E/P	MECHANICAL/ ELECTRICAL/ PLUMBING OR PROCESS
MANF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MDF/MDO	MEDIUM DENSITY FIBERBOARD / OVERLAY
MECH	MECHANICAL
MFD	MANUFACTURED
MFG	MANUFACTURING
MFR	MANUFACTURER
MGR	MANAGER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
MLP	METAL LINEAR PANEL
MO	MASONRY OPENING
MOD BIT	MODIFIED BITUMINOUS
MP	METAL PANEL
MTL	METAL
(N)	NEW
NFPA	NATIONAL FIRE PROTECTION AGENCY
NIC	NOT IN CONTRACT
NO. / #	NUMBER
NOM	NOMINAL
NR	NON RATED
NS	NEAR SIDE
NTE	NOT TO EXCEED
NTS	NOT TO SCALE
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OPPOSITE HAND
OHD	OVERHEAD DOOR
OPNG	OPENING
OPP	OPPOSITE
OSF / O/FACE	OUTSIDE FACE
OSSC	OREGON STRUCTURAL SPECIALTY CODE
OTS	OPEN TO STRUCTURE
P	PAINT
P-LAM	PLASTIC LAMINATE
P.E.	PROFFESSIONAL ENGINEER
PB	PARTICLE BOARD
PDA / PAF	POWDER DRIVEN ANCHORS/POWDER ACTUATED FASTENER
PJ	PANEL JOINT
PL /	PLATE
PLB	PARALLAM BEAM
PLMB	PLUMBING
PLY / PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PS	POUR STRIP
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED / PORCELAIN TILE
PVC	POLY VINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
RAD	RADIUL
RB	RUBBER BASE
RBE	ROOF BASE ELEVATION
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECEPT	RECEPTION(IST)
REF	REFERENCE / REFRIGERATOR
REINF	REINFORCING
REQ / REQ'D	REQUIRED
REV	REVISION
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
S	STAIN
SAT	SUSPENDED ACOUSTICAL TILE
SC	SEALED CONCRETE / SOLID CORE WOOD
SCHED	SCHEDULE
SCM	STRUCTURAL CLAY MASONRY
SF	STORE FRONT / SQUARE FEET
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHTG / SHT'G	SHEATHING
SIM	SIMILAR
SLRS	SEISMIC LOAD RESISTIVE SYSTEM
SLV	SHORT LEG VERTICAL
SMS	SHEET METAL SCREW
SOG	SLAB ON GRADE
SP	SPACE(D)(S)
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL / SOLID SURFACE
ST	STONE
STA PT	STATION POINT
STAGG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
T	TEMPERED
T&B	TOP AND BOTTOM
T/	TOP OF
TC	TOP OF CURB
TEMP	TEMPERATURE / TEMPORARY
THK	THICK / THICKNESS
TL	TOTAL LOAD
TN	TOE NAIL
TO	TOP OF
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPO	THERMOPLASTIC POLYOLEFIN
TRANS / TRANSV	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
U/S	UNDERSIDE
UC	UNDER COUNTER
UL	UNDER WRITERS LABORATORIES
UNO / UON	UNLESS NOTED OTHERWISE
USG	UNITED STATES GYPSUM
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VFY	VERIFY
VIF	VERIFY IN FIELD
VP	VISION PANEL
W/	WITH
W/CRC	COATING WITH CHEMICAL RESISTANCE
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET / WALL COVERING
WD	WOOD
WF	WIDE FLANGE BEAM
WH	WATER HEATER
WP	WATER PROOF / WOOD PANELING / WORK POINT
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WATER STOP / WELDED STUD
WWF	WELDED WIRE FABRIC
WWR	WELDED WIRE MESH

PROJECT SUMMARY

LOCATION: 7730 SE MARKET ST
PORTLAND, OR 97215

ZONING: R5

BUILDING CODE:
2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC)
2014 OREGON MECHANICAL SPECIALTY CODE (OMSC)
2017 OREGON ELECTRICAL SPECIALTY CODE (OESC) W/ STATE AMENDMENTS
2017 OREGON PLUMBING SPECIALTY (OPSC)
2014 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC)
2014 OREGON FIRE CODE (OFC)
2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 (NATIONAL FIRE ALARM CODE)
2009 ICC/ANSI A117.1-09, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, W/ STATEWIDE AMENDMENTS

CLIMATE ZONE: 9A

CODE SUMMARY

EXISTING BUILDING
OCCUPANCY: E
CONSTRUCTION TYPE: TYPE V-B

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION
BUILDING USES:
EDUCATIONAL

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
503 BUILDING AREA: 1,660 SF
504.2 BUILDING HEIGHT
ALLOWED: 40'-0"
PROVIDED 13'-6"

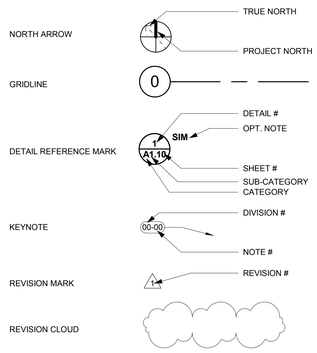
CHAPTER 9 FIRE PROTECTION SYSTEMS
906.3.1 PORTABLE FIRE EXTINGUISHERS - CLASS A. MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER SHALL BE 75'. PORTABLE FIRE EXTINGUISHER REQUIREMENTS SHALL BE DETERMINED BY THE FIRE DEPARTMENT IN ACCORDANCE WITH APPLICABLE CODES. ALL EXISTING FIRE EXTINGUISHERS ARE TO REMAIN AND BE RELOCATED AS REQUIRED.

CHAPTER 10 MEANS OF EGRESS
1004 OCCUPANT LOAD
OCCUPANCY TYPE: E
GROUND FLOOR
AREA: 1,660 SF (1,490 SF NET)
LOAD FACTOR: 20 NET
BUILDING TOTAL: 75 OCCUPANTS
OCCUPANCY TYPE AND LOAD UNALTERED, THEREFORE CHAPTER 34 APPLIES

1021.2.4 NUMBER OF EXITS REQUIRED: 2
NUMBER OF EXITS PROVIDED: 2
MEANS OF EGRESS UNALTERED, THEREFORE CHAPTER 34 APPLIES

CHAPTER 29 PLUMBING SYSTEMS
TABLE 2902.1 MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES.
NUMBER OF REQUIRED WATER CLOSETS: 2
NUMBER OF REQUIRED LAVATORIES: 2
NUMBER OF REQUIRED WATER FOUNTAINS: 1
NUMBER OF WATER CLOSETS PROVIDED: 2
NUMBER OF LAVATORIES PROVIDED: 2
NUMBER OF WATER FOUNTAINS PROVIDED: 2
OCCUPANCY TYPE AND LOAD UNALTERED, THEREFORE CHAPTER 34 APPLIES

SYMBOLS AND REFERENCES



PROJECT GENERAL NOTES

A. THE DRAWINGS LOCATE PRODUCTS, SURFACES, AND MATERIALS AND THE NOTES CONVEY DESIGN INTENT. THE PROJECT INTENT IS TO PROVIDE FOR A COMPLETE, WORKING SYSTEM.
B. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED BUILDING CODE EDITION, AND TO CONDITIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES.
C. VERIFY AND CONFIRM ALL CONDITIONS, DIMENSIONS, AND LAYOUT INFORMATION PRIOR TO START OF CONSTRUCTION. NOTIFY MACKENZIE OF ANY DISCREPANCIES PRIOR TO START OF WORK. ANY CORRECTION WORK REQUIRED AS A RESULT OF NOT REPORTING SUCH DISCREPANCIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
D. CONTRACTOR AND SUBCONTRACTORS SHALL CAREFULLY EXAMINE THE SITE AND THE CONSTRUCTION DOCUMENTS OF THE ENTIRE WORK. INCONSISTENCIES IN THE PLANS OR SPECIFICATIONS SHALL BE CALLED TO THE ATTENTION OF MACKENZIE.
E. REFER TO ENLARGED PLANS AND ELEVATIONS WHERE INDICATED FOR ADDITIONAL INFORMATION. ENLARGED PLANS TAKE PRECEDENCE OVER PLANS OF SMALLER SCALE, AND DETAILS TAKE PRECEDENCE OVER PLANS. IN THE CASE OF A CONFLICT, THE HIGHEST COST OPTION SHOULD BE PRICED.
F. DETAIL REFERENCES SHALL BE APPLIED TO ALL INSTANCES WHERE THE SAME CONDITIONS OCCUR, UNLESS NOTED OTHERWISE.
G. THE TERMS "ABOVE FINISH FLOOR" (AFF) AND "FINISH FLOOR ELEVATION" (FFE) REFER TO FINAL FINISHED FLOOR ELEVATION, WHETHER BUILT-UP SLAB, COMPOSITE DECK, OR RAISED ACCESS FLOOR.
H. DO NOT SCALE DRAWINGS.
I. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD.
J. FINISH FLOOR ELEVATION OF 0'-0" = 265.00' AS INDICATED ON CIVIL DRAWINGS.
K. SAVE AND RECYCLE DEMOLITION DEBRIS AS APPLICABLE. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED. COORDINATE WITH CITY OF PORTLAND REQUIREMENTS FOR RECYCLING/RE-USE OF DEMOLITION DEBRIS.
L. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR WORK. THE CONTRACTOR WILL COORDINATE CLEAN UP OF ALL AREAS AFFECTED BY DUST OR ANY MATERIALS, BOTH DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, INCLUDING THE INSIDE OF ALL WINDOWS AS NECESSARY SO THAT THE SPACE IS READY FOR OCCUPANCY BY TENANT.
M. ALL DESIGN-BUILD ITEMS, SYSTEMS, AND ELEMENTS ARE TO BE SUBMITTED FOR REVIEW AND APPROVED BY MACKENZIE.
N. EXISTING MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE SAFELY STORED AND PROTECTED UNTIL IT IS REMOVED FROM THE SITE BY THE OWNER

Architecture ▪ Interiors
Planning ▪ Engineering

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REGISTERED ARCHITECT
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STATE OF OREGON

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Revision Schedule

Revision Delta	Issue Date

SHEET TITLE:
PROJECT GENERAL NOTES, SYMOBLS, AND ABBREVIATIONS

DRAWN BY: QNR, MHB

CHECKED BY: CCB

SHEET
G0.02B

JOB NO. **2170276.00**

PERMIT/BID SET 4/24/18

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF CITY OF PORTLAND, PORTLAND PUBLIC SCHOOLS AND THE CURRENT AMERICAN PUBLIC WORKS ASSOCIATION STANDARDS FOR PUBLIC WORKS CONSTRUCTION.
2. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, SECTION, JOINT OR FITTING REQUIRED TO COMPLETE THE PROJECT. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION. EXISTING UNDERGROUND UTILITIES LAYING WITHIN THE LIMITS OF EXCAVATION SHALL BE VERIFIED AS TO CONDITION, SIZE AND LOCATION BY UNCOVERING, PROVIDING SUCH IS PERMITTED BY LOCAL PUBLIC AUTHORITIES WITH JURISDICTION, BEFORE BEGINNING CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IF THERE ARE ANY DISCREPANCIES.
3. THE SURVEY INFORMATION SHOWN AS A BACKGROUND SCREEN IS BASED ON A SURVEY BY OTHERS AND IS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS WITH HIS OWN RESOURCES PRIOR TO START OF ANY CONSTRUCTION.
4. CONTRACTOR MUST COMPLY WITH O.R.S. 757.541 THROUGH 757.571 AND SHALL NOTIFY ALL UTILITY COMPANIES FOR LINE LOCATIONS SEVENTY-TWO (72) HOURS (MINIMUM) PRIOR TO START OF WORK. DAMAGE TO UTILITIES SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. (ONE CALL LOCATE UTILITY NOTIFICATION CENTER – PORTLAND METRO AREA 246-6699, OREGON 696-4848, ALL OTHER AREAS 1-800-332-2344).
5. CONTRACTOR SHALL ADJUST ALL STRUCTURES IMPACTED BY CONSTRUCTION IMPROVEMENTS TO NEW FINISH GRADES.
6. REQUEST BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE ENGINEER.

UTILITY NOTES

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AGENCY AND THE CURRENT EDITION OF THE UNIFORM PLUMBING CODE, AND PORTLAND PUBLIC SCHOOL DESIGN STANDARDS, AND THE INTERNATIONAL BUILDING CODE. ALL WORK WITHIN THE PUBLIC R.O.W. REQUIRES A PUBLIC WORKS PERMIT.
2. PROVIDE CLEANOUTS AS REQUIRED IN THE CURRENT UNIFORM PLUMBING CODE CHAPTER 7, SECTIONS 707 AND 719, AND CHAPTER 11, SECTION 1101.12. NOTE: NOT ALL REQUIRED CLEANOUTS ARE SHOWN ON THE PLANS.
3. ALL STORM PIPING IS SIZED FOR A MANNING'S "N" VALUE = 0.013 ALL STORM PIPING IS DESIGNED USING CONCENTRIC PIPE TO PIPE AND WYE FITTINGS, UNLESS OTHERWISE NOTED.
4. ALL DOWNSPOUT LEADERS TO BE 6" AT 2.0% MIN. UNLESS NOTED OTHERWISE.
5. VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES BY POTHOLING PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.
6. PROVIDE 2" PVC DRAIN LINE FROM DOMESTIC WATER METER VAULT AND BACKFLOW PREVENTER VAULT TO THE DOUBLE DETECTOR CHECK VALVE (FIRE) VAULT. PROVIDE 1/3 HP SUMP PUMP AT BASE OF FIRE VAULT AND INSTALL 2" PVC DRAIN LINE WITH BACKFLOW VALVE FROM SUMP PUMP TO DAYLIGHT AT NEAREST CURB. FURNISH 3" DIAMETER CONDUIT FROM BUILDING ELECTRICAL ROOM TO FIRE VAULT FOR SUMP PUMP ELECTRICAL SERVICE. NOTE: COORDINATE WITH FIRE PROTECTION CONTRACTOR FOR FLOW SENSOR INSTALLATION AND CONDUIT REQUIREMENTS.
7. SEE BUILDING PLUMBING DRAWINGS FOR PIPING WITHIN THE BUILDING AND UP TO 5' OUTSIDE THE BUILDING, INCLUDING ANY FOUNDATION DRAINAGE PIPING.
8. CONTRACTOR TO MAINTAIN MINIMUM 3 FT OF COVER OVER ALL WATER LINES.
9. WHERE CONNECTING TO AN EXISTING PIPE, AND PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL EXPOSE THE END OF THE EXISTING PIPE VERIFY THE LOCATION, SIZE, AND ELEVATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A SPRINKER/UNDERGROUND PERMIT TO INSTALL THE ONSITE FIRE LINES AND HYDRANTS. THIS MUST BE OBTAINED FROM THE FIRE PREVENTION DIVISION OF PORTLAND FIRE AND RESCUE. THE CONTRACTOR SHOULD BE AWARE THAT THIS PERMIT COULD TAKE UP TO 2 WEEKS TO OBTAIN.

EROSION CONTROL NOTES

1. HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
2. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS.
3. THE EROSION CONTROL DRAWING IS FOR GENERAL GUIDANCE ONLY. THE CONTRACTOR SHALL MEET ALL CITY LOCAL AGENCY EROSION/SEDIMENT CONTROL REQUIREMENTS. ALL EROSION CONTROL MEASURES SHALL CONFORM TO THE AUTHORITY HAVING JURISDICTION REQUIREMENTS AND THE PLANS AND SPECIFICATIONS SPECIFIC TO THIS PROJECT.
4. CONSTRUCT EROSION CONTROL IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS. STAGE CONSTRUCTION TO INCLUDE INSTALLATION OF PERIMETER SEDIMENT FENCING AS REQUIRED.
5. METHOD OF INSTALLATION FOR SEDIMENT FENCE SHALL NOT CAUSE DAMAGE TO VEGETATED SLOPE EXCEPT AT POINT OF INSTALLATION. SIDECAST MATERIAL SHALL BE KEPT TO A MINIMUM AND SHALL BE TO THE UPHILL SIDE OF THE SEDIMENT FENCE. THE FENCE SHALL BE INSTALLED AT LEAST 4 FEET FROM ADJACENT TREES. ANY EXPOSED GROUND SHALL BE SEEDED AND COVERED WITH STRAW MULCH TO PREVENT EROSION. TEMPORARY GROUND COVER SHALL BE MAINTAINED UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED. SEEDING SHALL BE WITH NATURAL SPECIES FOR THE AREA. SEE THE SPECIAL SPECIFICATIONS FOR PROPER SEED MIX.
6. ALL EROSION CONTROL DEVICES SHALL BE EXAMINED AND REPAIRED AFTER EACH STORM OCCURRENCE, AND INLETS SHALL BE CLEANED OF SEDIMENT WHENEVER NECESSARY.
7. HYDROSEED AND MULCH ALL DISTURBED AREAS UPON COMPLETION OF CONSTRUCTION OR AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL LIMIT CONSTRUCTION TRAFFIC TO PAVED AREAS TO PREVENT AND MINIMIZE SEDIMENT TRACKING OFF-SITE. CONTRACTOR SHALL SWEEP OR VACUUM PAVED AREAS IF SEDIMENT ACCUMULATION OCCURS. DO NOT TRACK SEDIMENT TO THE PUBLIC STREET.
8. THE CONTRACTOR SHALL LIMIT CONSTRUCTION TRAFFIC TO PAVED AREAS TO PREVENT AND MINIMIZE SEDIMENT TRACKING OFF-SITE. CONTRACTOR SHALL SWEEP OR VACUUM PAVED AREAS IF SEDIMENT ACCUMULATION OCCURS. DO NOT TRACK SEDIMENT TO THE PUBLIC STREET.
9. INSTALL TEMPORARY EROSION PREVENTION SUCH AS JUTE NETTING OR GEOTEXTILE ON DISTURBED AREAS STEEPER THAN 4H:1V.
10. STAGING AND STOCKPILE AREAS TO BE DETERMINED BY CONTRACTOR AND ADJUSTED TO ACCOMMODATE THE PROGRESS OF CONSTRUCTION

LEGEND

	EXISTING	PROPOSED
RIGHT-OF-WAY LINE		
BOUNDARY LINE		
CENTERLINE		
FENCE LINE		
POWER LINE	PWR	
STORM SEWER LINE	STM	
SANITARY SEWER LINE	SAN	
FIRE WATER LINE	WAT	
DOMESTIC WATER LINE		
WATER METER		
WATER VALVE		
STORM SEWER CATCH BASIN		
SANITARY SEWER CLEAN OUT		
STORM SEWER CLEAN OUT		
AREA DRAIN		
BASKETBALL HOOP		
PROPERTY CORNER MONUMENT		
TREES		

ABBREVIATIONS

CITY OF PORTLAND	COP
STANDARD	STD.
EXISTING GRADE	EX

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PORTLAND PUBLIC SCHOOLS DISTRICT #1J

Project
PPS - BRIDGER ELEMENTARY SCHOOL MODULAR RELOCATION

7910 SE MARKET ST
PORTLAND, OR 97203

REGISTERED PROFESSIONAL ENGINEER #19432 OREGON SEPT. 16, 1997 MATTHEW W. BUTTS
EXPIRES: 12/31/19

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SHEET TITLE:
CIVIL NOTES AND LEGEND

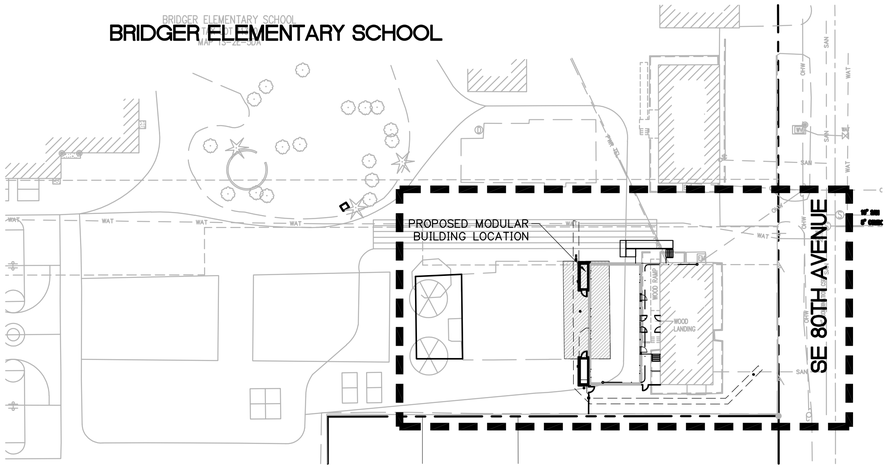
DRAWN BY: BMR

CHECKED BY: MWB

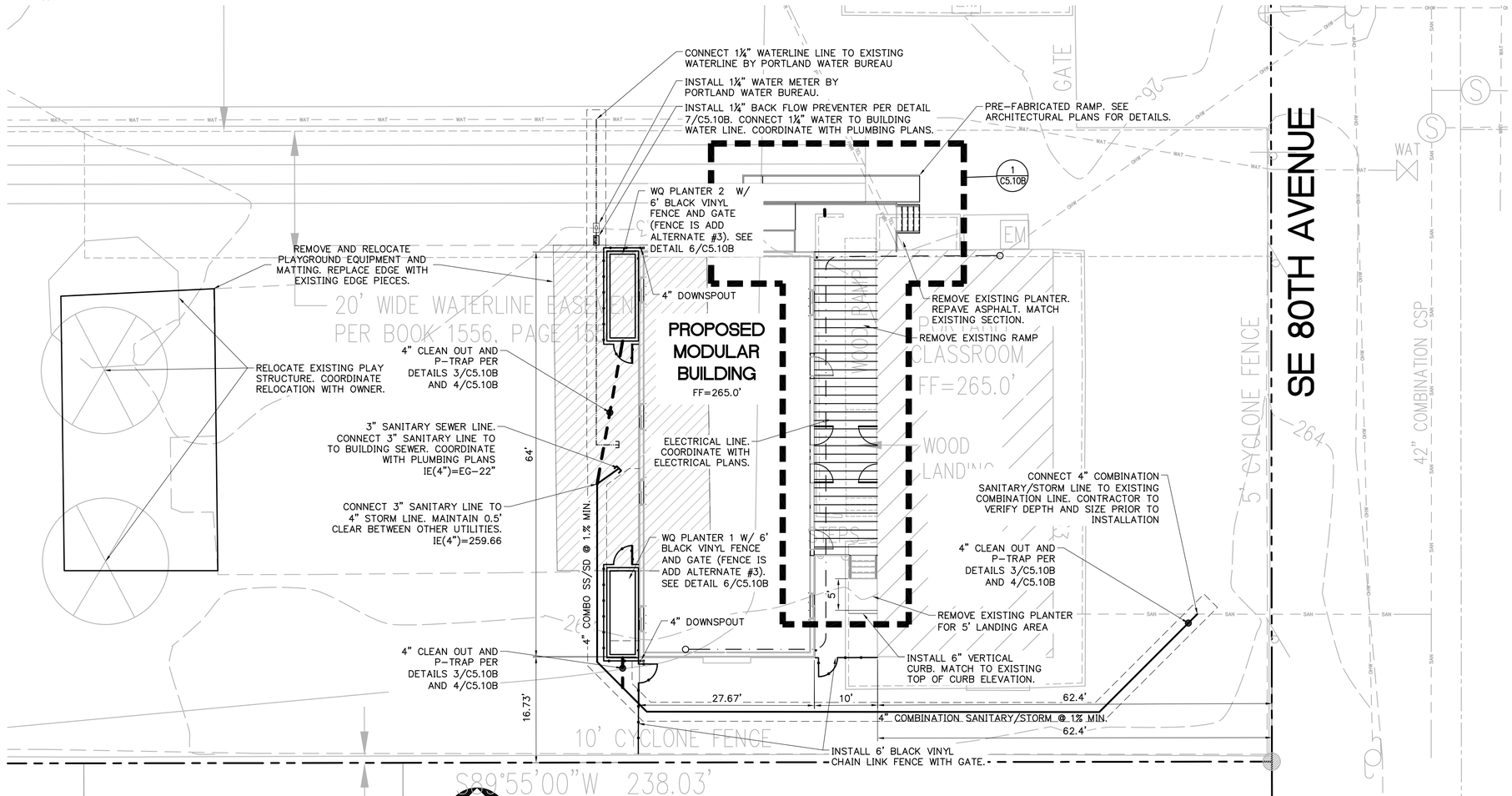
SHEET:
C0.01B

JOB NO. 2170276.00

BID/PERMIT SET 4/9/2018



1 C1.10B **VICINITY MAP**
1"=40'



2 C1.10B **SITE AND UTILITY PLAN**
1"=10'

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SITE + UTILITY PLAN

DRAWN BY: BMR
CHECKED BY: MWB
SHEET:
C1.10B

JOB NO. 2170276.00

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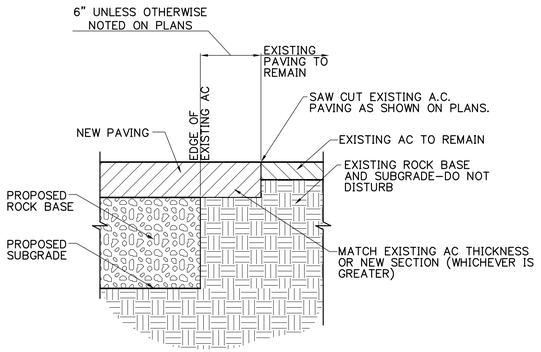
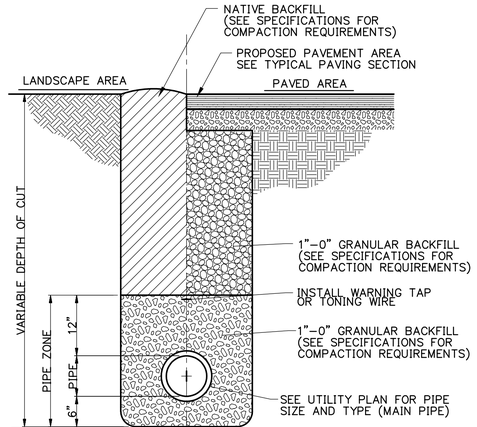


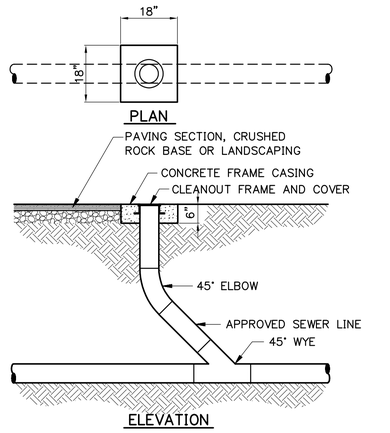
1 SAWCUT DETAIL
C5.10B N.T.S.

SAWCUT
1:1



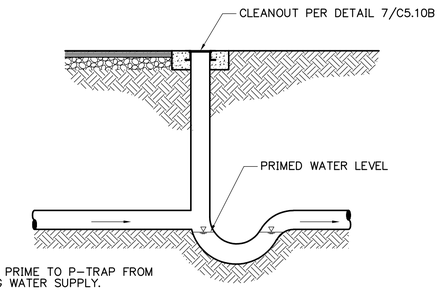
2 UTILITY TRENCH BEDDING AND BACKFILL
C5.10B N.T.S.

TRENCH–1



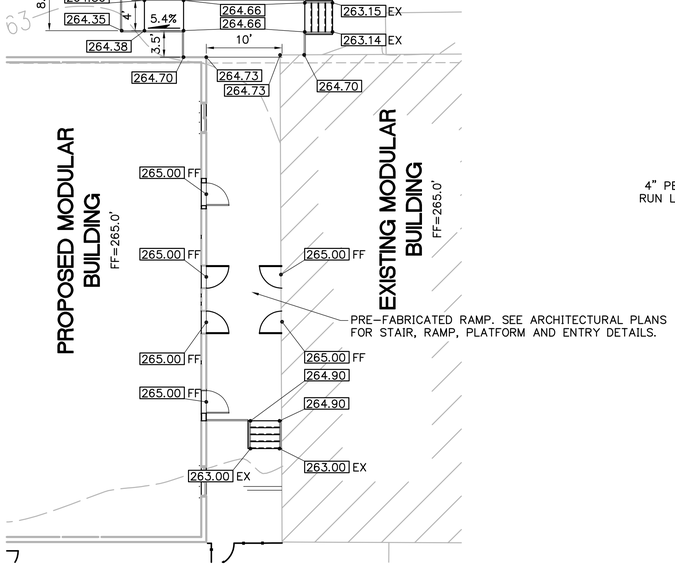
3 CLEANOUT
C5.10B N.T.S.

CLEANOUT



4 P-TRAP
C5.10B N.T.S.

P–TRAP
1:1

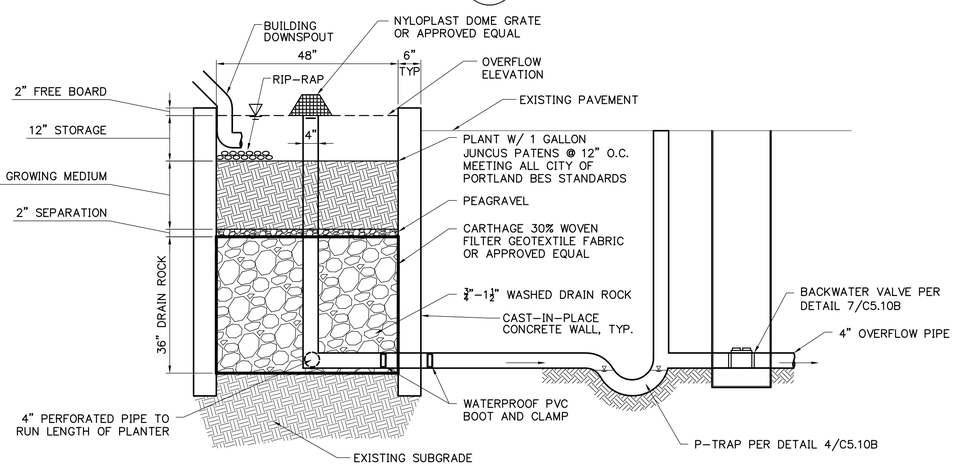


5 RAMP ENLARGEMENT
C5.10B SCALE: 1"=10'

1:1

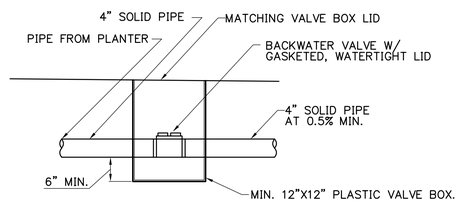
10 0 5 10 20 40

(IN FEET)
1 inch = **10** ft.



6 PLANTER SECTION
C5.10B N.T.S.

1:1



7 BACKWATER VALVE
C5.10B N.T.S.

BACKFLOW–BOX

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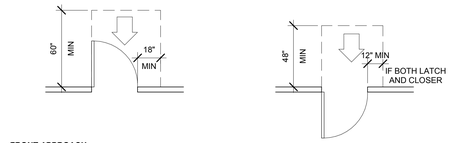


1 A0.01B ADA DOOR CLEARANCES
1/4" = 1'-0"

ARCHITECTURAL LEGEND

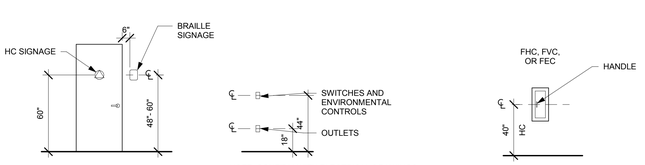
ANNOTATION SYMBOLS

ELEVATION KEY MARK — 1 / A2.10 — DETAIL # / SHEET #

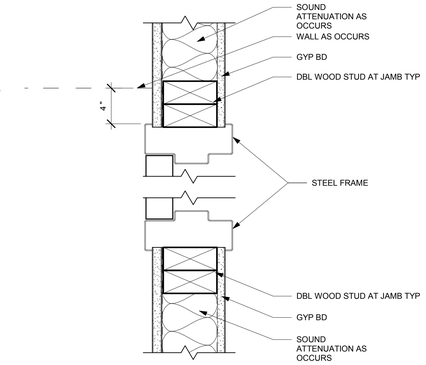
INTERIOR ELEVATION KEY MARK — 1 / A4.10 — DETAIL # / FILLED ARROW / SHEET #

ROOM/SPACE IDENTIFICATION — Room name (SPACE NAME) / 101 (SPACE #)

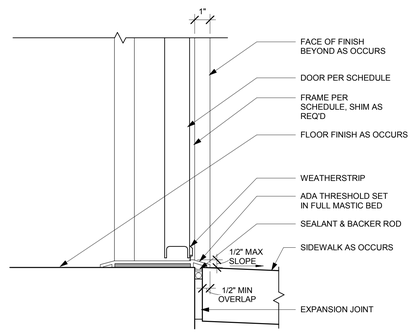
DOOR NUMBER SYMBOL — 101



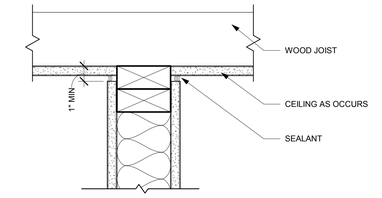
6 A0.01B ADA MOUNTING HEIGHTS
1/4" = 1'-0"



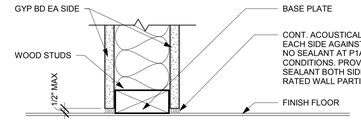
3 A0.01B TYPICAL DOOR JAMB DETAIL (HEAD SIM)
3" = 1'-0"



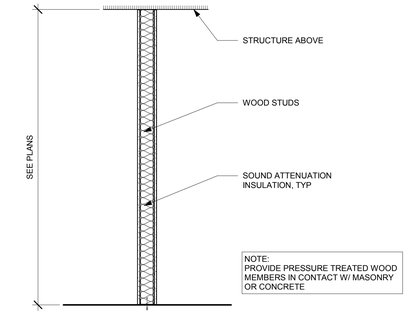
8 A0.01B HOLLOW METAL DOOR SILL
3" = 1'-0"



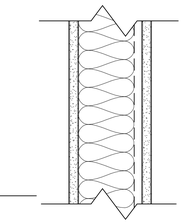
4A A0.01B PARTITION HEAD
3" = 1'-0"



4B A0.01B PARTITION BASE
3" = 1'-0"



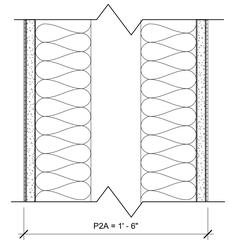
9 A0.01B TYPICAL INTERIOR PARTITION
3/4" = 1'-0"



P1A :
- 5/8" GYP BD
- 4" WD STUDS
- SOUND ATTENUATION BATT INSULATION
- 5/8" GYP BD

NOTES:
- ALL WALL EXTEND TO STRUCTURE U.N.O.
- PROVIDE ACOUSTIC SEALANT AT BOTTOM AND TOP OF WALL THAT GO TO STRUCTURE.
- IN AREAS PRONE TO MOISTURE USE MOISTURE RESISTANT GYP BD.
- SEE STRUCTURAL DRAWINGS FOR EXACT STUD SIZE AND SPACING

P1 A0.01B P1 - TYPICAL WALL
3" = 1'-0"

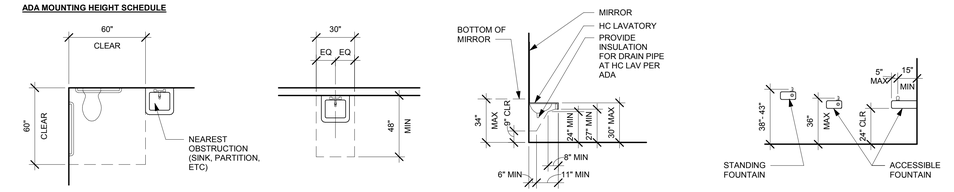


P2A :
- CERAMIC TILE ON ONE SIDE OR BOTH AS OCCURS
- 5/8" GYP BD OR GLASS MESH MORTAR UNITS AS OCCURS, BOTH SIDES
- 2x4 STUDS @ 24" ON EACH SIDE
- 3" SOUND ATTENUATION BATT INSUL
- PLUMBING CHASE BETWEEN STUDS
- 1' - 6" TOTAL ASSEMBLY FROM FINISH FACE TO FINISH FACE

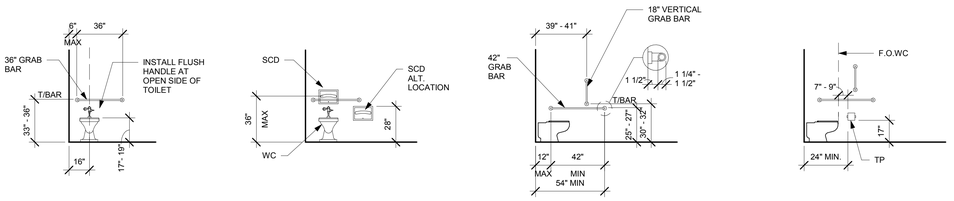
NOTE: - SEE PARTITION NOTES
- USE MOISTURE RESISTANT GYP BD

P2 A0.01B P2 - PLUMBING WALL
3" = 1'-0"

ADA MOUNTING HEIGHT SCHEDULE



A — TOILET PLAN CLEAR FLOOR SPACE
B — LAVATORY - PLAN CLEAR FLOOR SPACE
C — LAVATORY KNEE/TOE CLEARANCE
D — DRINKING FOUNTAIN



E — TOILET STALL - REAR WALL GRAB BARS
F — TOILET STALL - REAR WALL ACCESSORIES
G — TOILET STALL - SIDE WALL GRAB BARS
H — TOILET STALL - SIDE WALL DISPENSERS BELOW BAR

STANDARD MOUNTING HEIGHT SCHEDULE

J — TOILET ACCESSORIES

TOILET ACCESSORY ABBREVIATIONS LEGEND

FO	FACE OF	TO	TOP OF
HC	HANDICAP	TYP	TYPICAL
MIN	MINIMUM	TP	TOILET PAPER
PTD	PAPER TOWEL DISPENSER	WR	WASTE RECEPTACLE
SD	SOAP DISPENSER	WC	WATER CLOSET
SCD	SEAT COVER DISPENSER		

GENERAL NOTES:

1. ALL STAINLESS STEEL ACCESSORIES TO BE SATIN FINISH UNLESS OTHERWISE NOTED.
2. MOUNT ALL TOILET ROOM ACCESSORIES PER MANUFACTURER'S RECOMMENDED MOUNTING HEIGHTS, WITHIN STATED ADA TOLERANCES.
3. FLOOR DRAINS TO BE LOCATED OUTSIDE OF ADA CLEAR FLOOR AREAS, COORDINATE WITH PLUMBING.
4. WRAP ALL EXPOSED WASTE AND HOT WATER LINES PER ADA CODE.

16 A0.01B ADA TOILET ROOM CLEARANCES AND MOUNTING HEIGHTS
1/4" = 1'-0"

DOOR SCHEDULE -- BRIDGER

Door	Door Width	Door Height	Door Thk	Door Type	Door Mat'l	Door Finish	Frame Type	Frame Mat'l	Frame Finish	Detail Head	Detail Jamb	Detail Sill	Hdwr Group	Rating	Comments
121A	3' - 0"	7' - 0"	1 3/4"	A1 (E)	(E)	(E)	HM	STL	P	4/A0.01A	4/A0.01A	9/A0.01B	H-1		1
122A	3' - 0"	7' - 0"	1 3/4"	A2	HM	P	(E)	(E)	(E)	(E)	(E)	(E)	H-2		2
123A	3' - 0"	7' - 0"	1 3/4"	A1 (E)	(E)	(E)	HM	STL	P	4/A0.01A	4/A0.01A	9/A0.01B	H-1		1
124A	3' - 0"	7' - 0"	1 3/4"	A2	HM	P	(E)	(E)	(E)	(E)	(E)	(E)	H-2		2

GENERAL NOTES

A. ALL SIZES INDICATE ROUGH OPENING DIMENSIONS
B. FIELD VERIFY ALL DIMENSIONS.
C. SOLID GROUT ALL DOOR AND WINDOW MULLIONS AT EXTERIOR AND INTERIOR LOCATIONS.
D. ALL DOORS AND HARDWARE PER PPS STANDARDS.

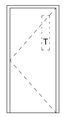
DOOR SCHEDULE ABBREVIATIONS

AL	ALUMINUM
FF	FACTORY FINISH
GL	GLASS
HDWR	HARDWARE
HM	HOLLOW METAL
MFR	MANUFACTURER
OVHD	OVERHEAD
P	PAINT
S	STAIN
SF	STOREFRONT
SC	SOLID CORE
STL	STEEL
T	TEMPERED GLASS

PORTABLE BUILDING DOOR HARDWARE

DOORS	
EXTERIOR (CLASSROOM)	TWO (2) (E) 36" X 84" X 1 3/4" GALVANIZED SEAMLESS STEEL DOOR; INSULATE, REPLACE WEATHER STRIPPING AS NEEDED, PROVIDE ANSI STANDARD ALUMINUM THRESHOLD, CLOSER, AND PANIC HARDWARE; 6" X 27" TEMPERED RE-LITE; REPAINT
EXTERIOR (RESTROOM)	TWO (2) 36" X 84" X 1 3/4" GALVANIZED SEAMLESS STEEL DOOR; 18 GAUGE DOOR WITH 16 GAUGE STEEL WELDED FRAME; PROVIDE ANSI STANDARD ALUMINUM THRESHOLD, AND CLOSER; PAINT
HARDWARE	
CLOSERS	EXTERIOR: NORTON 7500SS INTERIOR: NORTON 7704 / 7500
CYLINDERS	EXTERIOR (CLASSROOM): VON DUPRIN RHODE LEVERS, BEST (IC) CYLINDERS HEAVY DUTY - ND94BD (CLASSROOM LOCK TYPE), KEY IN LEVER, 7-PIN 'J' KEYWAY. PROVIDE CONSTRUCTION CORE. EXTERIOR (RESTROOM): VON DUPRIN RHODE LEVERS, BEST (IC) CYLINDERS HEAVY DUTY - PRIVACY LOCK WITH "OCCUPIED" INDICATOR SCHLAGE MORTISE L9496 06 L283-722 L583-363, PROVIDE CONSTRUCTION CORE
PANIC HARDWARE	VON DUPRIN 99 SERIES

DOOR TYPES



A1 — (E)HM VISION PANEL
A2 — HM FLUSH

DOOR SCHEDULE COMMENTS

1. RELOCATE (E) HM DOOR WITH VISION LITE, PROVIDE NEW FRAME.
2. INSTALL NEW HM FLUSH DOOR IN (E) FRAME.

DOOR HARDWARE SCHEDULE

H-1: EXTERIOR
- PANIC HARDWARE W/ LEVER FUNCTION
- SURFACE CLOSER
- KICK STOP
- HEAD DRIP
- WEATHERSTRIPPING
- THRESHOLD
- SWEEP

H-2: RESTROOM
- LATCHSET
- DEADBOLT W/ OCCUPANCY INDICATOR AND EXTERIOR OVERRIDE
- BUTTS
- SURFACE CLOSER
- HEAD DRIP
- WEATHERSTRIPPING
- THRESHOLD
- SWEEP

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Mechanical/Electrical
INTERFACE ENGINEERING, INC.
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Revision Schedule	
Revision Delta	**Issue Date**

SHEET TITLE:
TYPICAL DETAILS / DOOR SCHEDULE

DRAWN BY: MHB

CHECKED BY: CCB

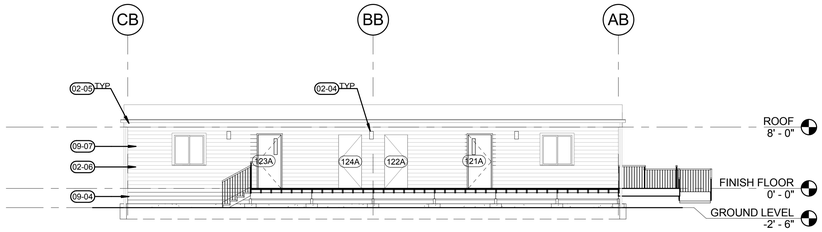
SHEET

A0.01B

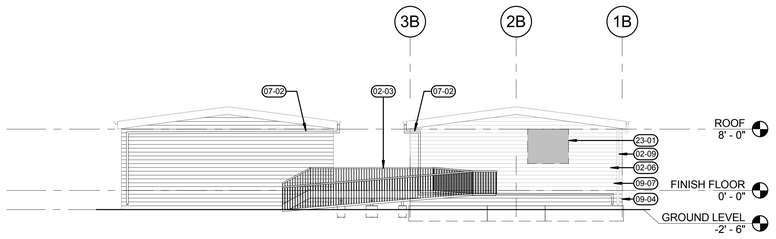
JOB NO. **2170276.00**

PERMIT/BID SET 4/24/18

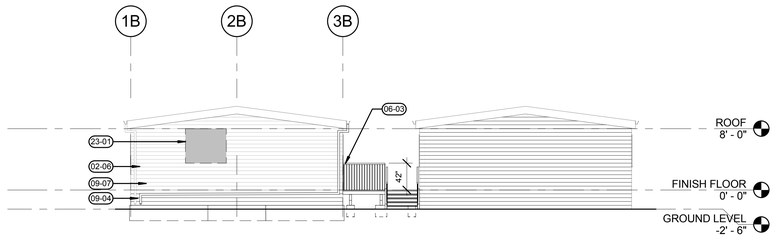
C:\Users\mhb\Documents\Revit Projects\CURRENT PROJECTS\PPS Modulars\276-PPS_Modulars-L.rvt 4/23/2018 5:53:58 PM As indicated



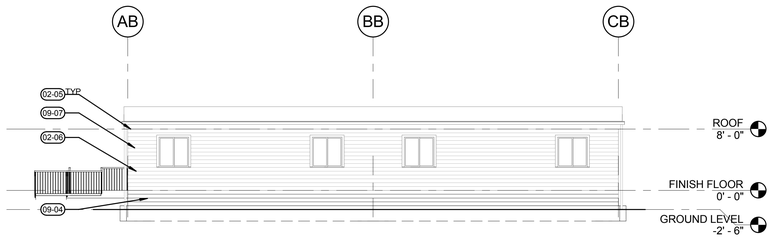
1 A1.11B PORTABLE B - EAST ELEVATION
1/8" = 1'-0"



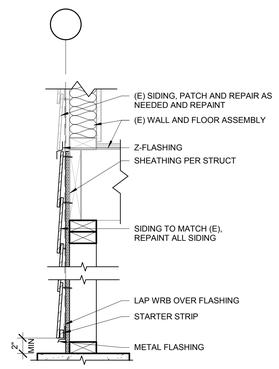
2 A1.11B PORTABLE B - NORTH ELEVATION
1/8" = 1'-0"



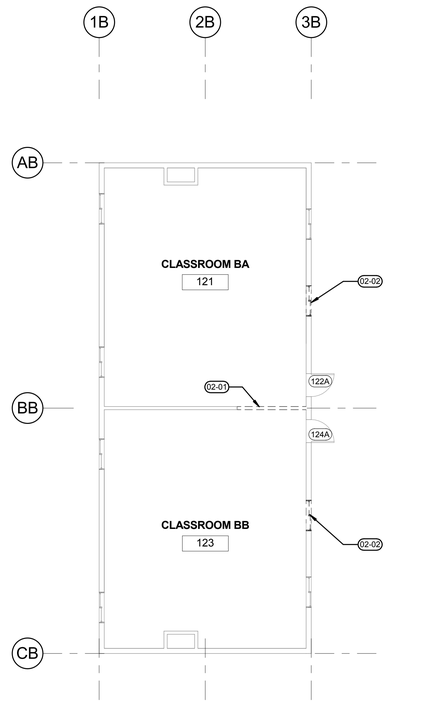
3 A1.11B PORTABLE B - SOUTH ELEVATION
1/8" = 1'-0"



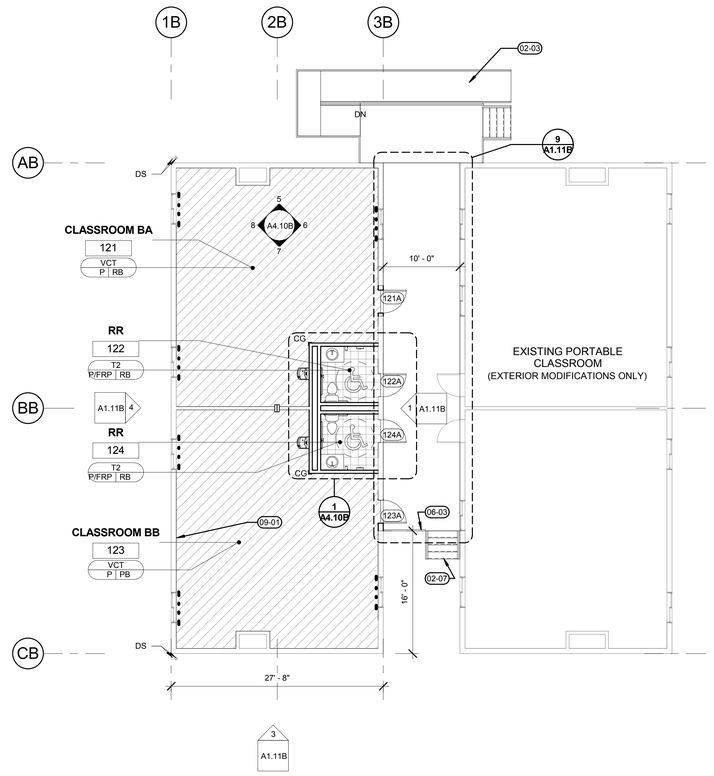
4 A1.11B PORTABLE B - WEST ELEVATION
1/8" = 1'-0"



5 A1.11B WALL DETAIL
1 1/2" = 1'-0"



6 A1.11B FLOOR PLAN - EXISTING
1/8" = 1'-0"



7 A1.11B FLOOR PLAN - NEW
1/8" = 1'-0"

LEGEND

- FLOOR TILE (T)
- VINYL COMPOSITE TILE (VCT)
- ADA ACCESSIBLE TURNING RADIUS AND CLEAR FLOOR SPACE (4' - 0", 2' - 6", R 2' - 6")
- CG — CORNER GUARDS
- INTERIOR ELEVATION SYMBOL
- FLOOR FINISH (CPT / P / RB)
- BASE FINISH
- WALL FINISH
- WINDOW SHADES

SCHEDULE OF INTERIOR FINISHES

SECTION 09 30 13 - CERAMIC TILING
T1 (RESTROOM FLOOR TILE): DALTILE, PLAZA NOVA, 12"x12", GRAY FOG PN98
T2 (RESTROOM WALL TILE): SEMI-GLOSS, GLAZED TILE, 6"x6". 0147 PEPPER WHITE - **ADD ALTERNATE #2**

GROUT COLOR: LATICRETE PERMACOLOR 90 LIGHT PEWTER
METAL TRANSITION STRIP: TBD

SECTION 09 51 00 - SUSPENDED ACOUSTICAL CEILINGS
ACT (ACOUSTICAL TILE): REPLACED DAMAGED TILES AS NEEDED TO MATCH (E)

SECTION 09 65 00 - RESILIENT FLOORING
RB (RUBBER BASE): FLEXCO WALLFLOWERS 4" H COVE RUBBER BASE, TS-01 BLACK DAHLIA
VCT (VINYL COMPOSITE TILE): ARMSTRONG, STANDARD EXCELON, IMPERIAL TEXTURE, 51904 STERLING

SECTION 09 77 33 - GLASS FIBER REINFORCED PLASTIC PANELS
FRP (FIBER REINFORCED PLASTIC): PANOLAM FRP, SMOOTH WHITE

SECTION 09 91 23 43 - INTERIOR PAINTING
P1 (GENERAL PAINT) OC-65 CHANTILLY LACE, GLOSS LEVEL 5
P2 (INTERIOR HOLLOW METAL DOOR FRAMES) T/M TIMELY SC103 BLACK
P3 (EXTERIOR HOLLOW METAL DOOR AND FRAMES) MATCH DOOR COLOR OF (E) MODULAR, GLOSS LEVEL 5

SECTION 21 26 01 - WALL AND CORNER GUARDS
CG (CORNER GUARDS) CS ACROVYN, FS-20N, STAINLESS STEEL

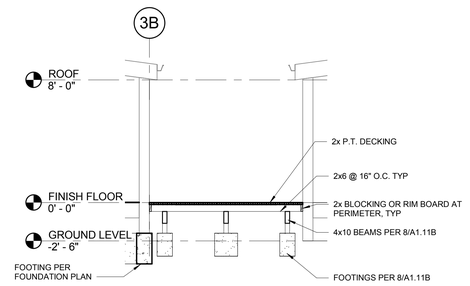
SECTION 12 21 13 - WINDOW SHADES
SW MECHOSHADE: ECOVEIL 1550 SERIES, 3% OPENNESS, COLOR: 1563 GREY

GENERAL NOTES

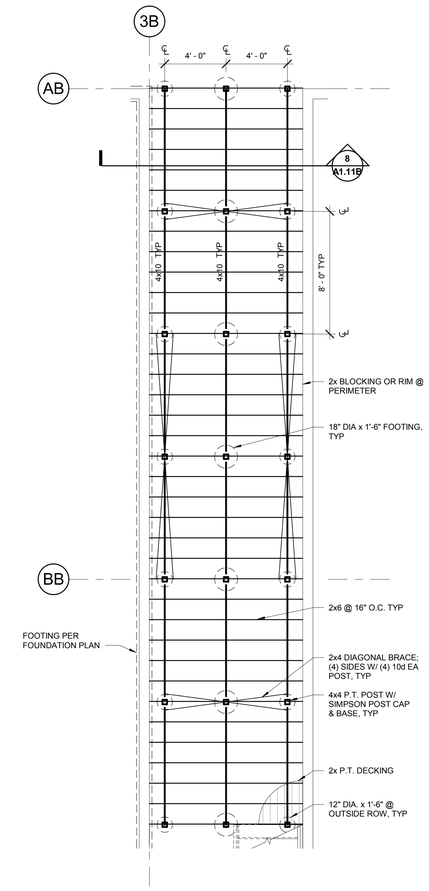
A. SEE ARCHITECTURAL GENERAL NOTES ON A0.01 FOR ADDITIONAL INFORMATION
B. SEE A0.01A FOR WALL TYPES.
C. SEE FINISH PLAN FOR CASEWORK AND RELATED FINISH INFORMATION
D. REPAIR/PATCH/REPLACE ALL DAMAGED EXTERIOR BUILDING COMPONENTS INCLUDING BUT NOT LIMITED TO: GUTTERS, SIDING, DOORS, DOOR FRAMES, WINDOWS, WINDOW FRAMES, ROOFING, AND LIGHTING.
E. REPLACE ALL DAMAGED ACOUSTICAL CEILING TILES.

KEYNOTES

02-01	REMOVE PORTION OF EXISTING WALL. COORDINATE LOCATION AND EXTENT WITH ARCHITECTURAL PLAN. PATCH ADJACENT WALL SURFACES AS REQUIRED.
02-02	REMOVE EXISTING WINDOW AND PREP WALL FOR NEW DOOR.
02-03	REINSTALL EXISTING PREMANUFACTURED RAMP AND STAIR, TO MEET ALL FEDERAL ADA REQUIREMENTS AND PROVIDE TWO HANDRAILS EACH SIDE TO MEET PORTLAND PUBLIC SCHOOLS ELEMENTARY SCHOOL ADA STANDARDS
02-04	EXISTING LIGHT FIXTURE TO REMAIN
02-05	EXISTING GUTTER TO REMAIN - PATCH AND REPLACE AS NEEDED
02-06	PATCH AND REPAIR EXISTING SIDING AS NEEDED, PATCH PAINT AS NEEDED
02-07	RELOCATE EXISTING STAIR
02-09	EXISTING DOWNSPOUT TO REMAIN - PATCH AND REPLACE AS NEEDED
06-03	WOOD RAILING
07-02	NEW DOWNSPOUT -- TERMINATE IN PLANTER
09-01	NEW PAINT THROUGHOUT, COLOR PER FINISH SCHEDULE.
09-04	SIDING TO MATCH (E), PAINT TO MATCH (E) -- SEE DETAIL 5/A1.11
09-07	ALTERNATE: REPAINT ENTIRE MODULAR
23-01	HEAT PUMP - SEE MECHANICAL



8 A1.11B DECK SECTION
1/4" = 1'-0"



9 A1.11B DECK FRAMING PLAN
1/4" = 1'-0"

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Revision Schedule	
Revision Delta	**Issue Date**

SHEET TITLE:
FLOOR PLAN & BUILDING ELEVATIONS

DRAWN BY: QNR, MHB

CHECKED BY: CCB

SHEET

A1.11B

JOB NO. **2170276.00**

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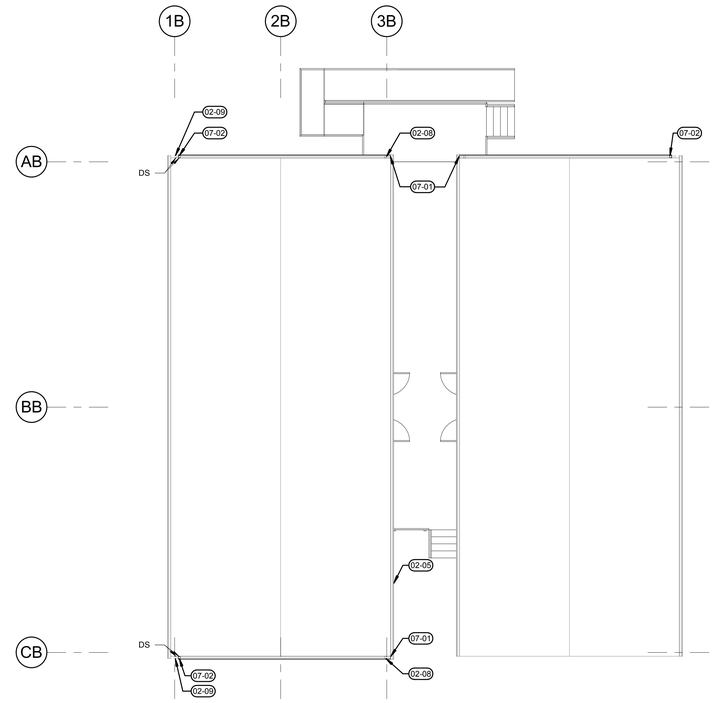
KEYNOTES

02-05	EXISTING GUTTER TO REMAIN - PATCH AND REPLACE AS NEEDED
02-08	REMOVE EXISTING DOWNSPOUT
02-09	EXISTING DOWNSPOUT TO REMAIN - PATCH AND REPLACE AS NEEDED
07-01	NEW GUTTER -- CONNECT WITH EXISTING AT CORNER
07-02	NEW DOWNSPOUT -- TERMINATE IN PLANTER



1 / X1.12B ROOF PLAN
1/8" = 1'-0"

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SHEET TITLE:
ROOF PLAN

DRAWN BY: MHB

CHECKED BY: CCB

SHEET
A1.12B

JOB NO. **2170276.00**

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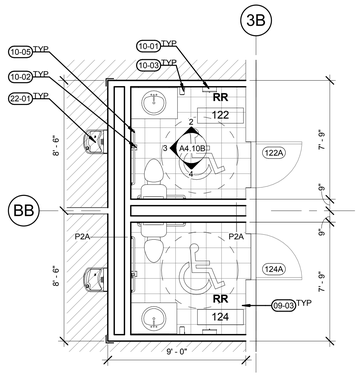
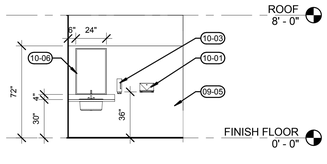
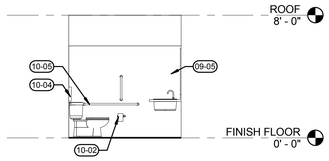


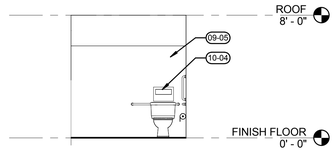
1 A4.10B ENLARGED FLOOR PLAN
1/4" = 1'-0"



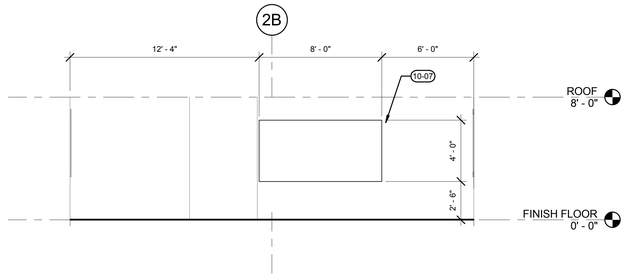
2 A4.10B RESTROOM
1/4" = 1'-0"



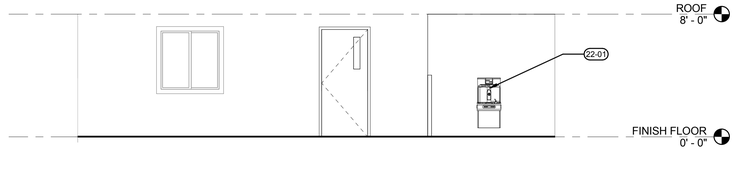
3 A4.10B RESTROOM
1/4" = 1'-0"



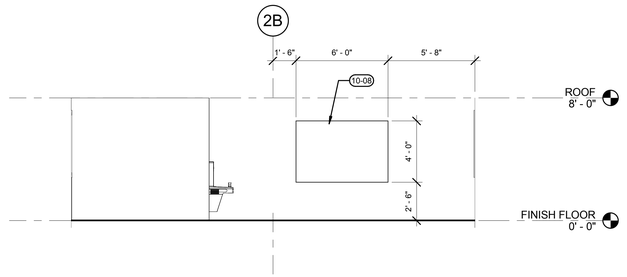
4 A4.10B RESTROOM
1/4" = 1'-0"



5 A4.10B CLASSROOM
1/4" = 1'-0"



6 A4.10B CLASSROOM
1/4" = 1'-0"



7 A4.10B CLASSROOM
1/4" = 1'-0"

8 A4.10B CLASSROOM
1/4" = 1'-0"

KEYNOTES

09-03	CERAMIC FLOOR TILE (T1)
09-05	FRP TO 6'-0" AFF
10-01	PAPER TOWEL DISPENSER -- SEE DETAIL J/16/A0.01
10-02	TOILET PAPER DISPENSER -- SEE DETAIL H/16/A0.01
10-03	SOAP DISPENSER -- SEE DETAIL J/16/A0.01
10-04	SEAT COVER DISPENSER -- SEE DETAIL J/16/A0.01
10-05	GRAB BARS -- SEE DETAILS G AND H/16/A0.01
10-06	MIRROR, SEE DETAIL C/16/A0.01
10-07	MARKER BOARD, MAGNETIC, ENSURE ADEQUATE BACKING IS PROVIDED -- SEE SPECS
10-08	CORK TACK BOARD, ENSURE ADEQUATE BACKING IS PROVIDED -- SEE SPECS
22-01	ACCESSIBLE DRINKING FOUNTAIN

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Revision Schedule	
Revision Delta	Issue Date

SHEET TITLE:
ENLARGED PLANS AND ELEVATIONS

DRAWN BY: MHB

CHECKED BY: CCB

SHEET
A4.10B

JOB NO. **2170276.00**

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MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
COP	COEFFICIENT OF PERFORMANCE
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFM	CUBIC FEET PER MINUTE
DIA	DIAMETER
DX	DIRECT EXPANSION
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
F	FAHRENHEIT
FT	FEET
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
HP	HEAT PUMP
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MD	MOTORIZED DAMPER
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
WC	WATER COLUMN
W	WATT
W/	WITH
W/O	WITHOUT

Dampers

VOLUME DAMPER

Diffusers and Grilles

12x12 / 100 CD-1 — DIFFUSER OR GRILLE IDENTIFICATION

EXHAUST AIR

RETURN AIR

SUPPLY AIR

Ductwork Fittings

ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)

CONCENTRIC SQUARE TO ROUND

CONCENTRIC TRANSITION, RECTANGULAR OR ROUND

ECCENTRIC TRANSITION, RECTANGULAR OR ROUND

FLEX DUCT

MITERED ELBOW WITH TURNING VANES

NON-SYMMETRICAL WYE

RECTANGULAR MAIN WITH RECTANGULAR BRANCH

RECTANGULAR MAIN WITH ROUND BRANCH

RECTANGULAR OFFSET LESS THAN 15%%d

RECTANGULAR OFFSET MORE THAN 15%%d

ROUND DUCT DROP

ROUND DUCT RISER

ROUND DUCT WITH ROUND BRANCH

ROUND WYE

SYMMETRICAL WYE

FAN SCHEDULE-BRIDGER ES

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TYPE	DRIVE	AIR FLOW (CFM)	ESP (IN H20)	MAX RPM	SOUNDS SONES	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL MHP (W)	CONTROLS REF	MAX WT (LBS)	COMMENTS
CEF-1B	BRIDGER RR	BRIDGER RR	GREENHECK	SP	CEILING	DIRECT	75	0.375	700	1.5	115	1	128	OCC. SENSOR	20	ROUND DISCHARGE, OCC. SENSOR
CEF-2B	BRIDGER RR	BRIDGER RR	GREENHECK	SP	CEILING	DIRECT	75	0.375	700	1.5	115	1	128	OCC. SENSOR	20	ROUND DISCHARGE, OCC. SENSOR

SHEET INDEX

M0.01B SYMBOLS LIST AND GENERAL NOTES - MECHANICAL

M1.11B FLOOR PLAN - BUILDING B - MECHANICAL

PROJECT 2018-0051
CONTACT Steve Dacus

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100 SW Main St.
Suite 1600
Portland, OR 97204
TEL 503.382.2266
FAX 503.382.2262
www.interfaceengineering.com

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Portland, OR 97215

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 21, 1995 — STEVEN E. DACUS

Steven E. Dacus

EXPIRES: 12/31/19

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Revision Schedule

Revision Delta	Issue Date

SHEET TITLE:
SYMBOLS LIST AND GENERAL NOTES - MECHANICAL

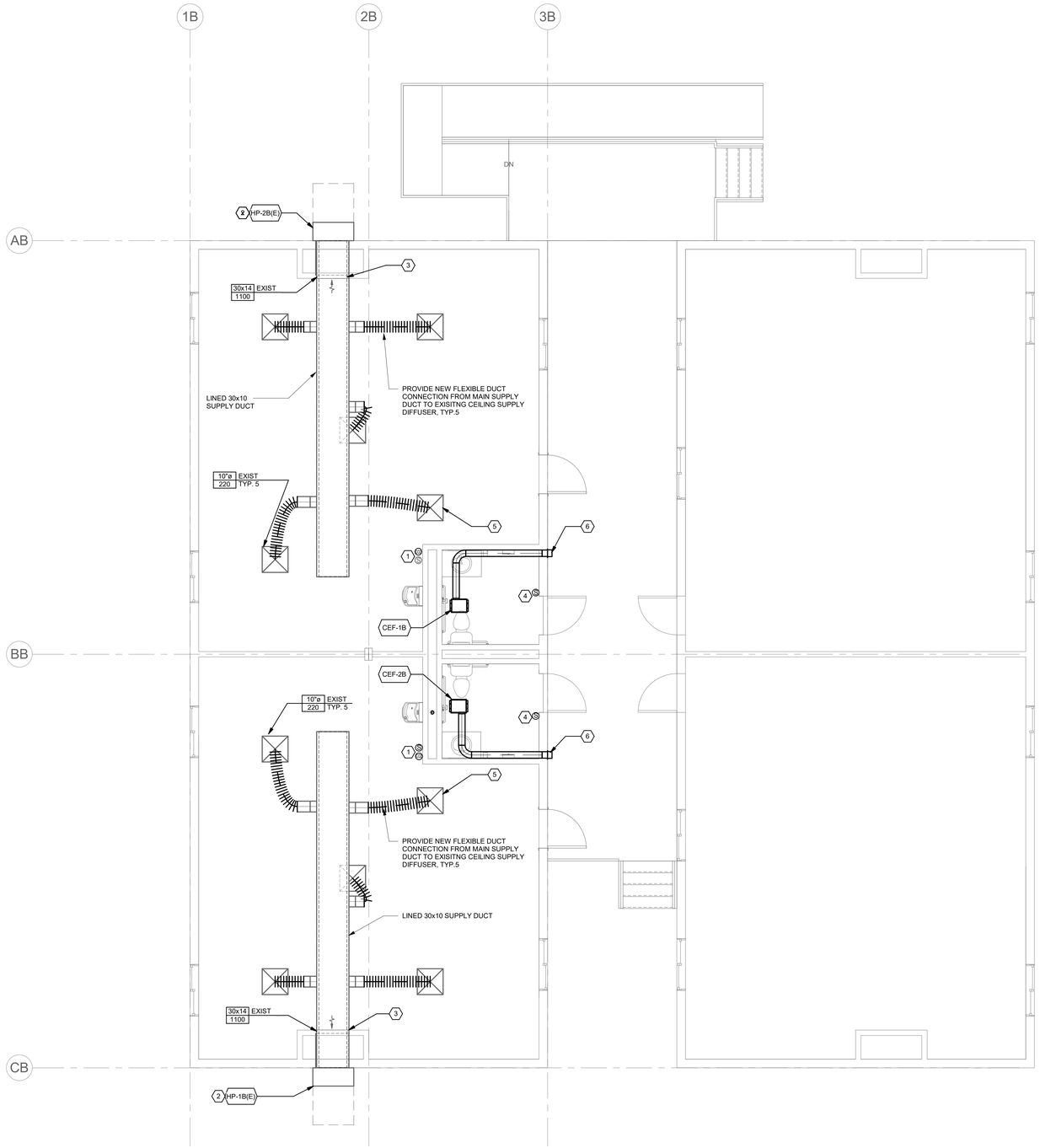
DRAWN BY: SED

CHECKED BY: SED

SHEET

M0.01B

JOB NO. **2170276.00**



1 FLOOR PLAN - BUILDING B - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"

SHEET KEYNOTES

1. RELOCATE EXISTING THERMOSTAT AND CARBON DIOXIDE SENSORS TO LOCATION SHOWN. PROVIDE NECESSARY WIRING AND PROGRAMMING.
2. BALANCE EXISTING WALL-MOUNTED HEAT PUMP TO AIRLFOWS SHOWN.
3. REPLACE FILTER IN EXISTING WALL-MOUNTED RETURN AIR GRILLE.
4. PROVIDE CEILING FAN MANUFACTURER'S WALL-MOUNTED OCCUPANCY SENSOR. PROVIDE WIRING FROM OCCUPANCY SENSOR TO EXHAUST FAN. COORDINATE WITH DIVISION 26.
5. RELOCATE EXISTING CEILING SUPPLY DIFFUSER TO LOCATION SHOWN.
6. MAINTAIN CODE REQUIRED 3 FEET BETWEEN ENVIRONMENTAL EXHAUST TERMINATION AND OPERABLE OPENING INTO BUILDING.

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Client

Portland Public Schools
District #1J

Project

PPS - Bridger Elementary School Modular Relocation
7910 SE Market St
Portland, OR 97215

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 21, 2005
STEVEN E. DACUS
Steve Dacus
EXPIRES: 12/31/19

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Revision Schedule	
Revision Delta	Issue Date

SHEET TITLE:
FLOOR PLAN - BUILDING B - MECHANICAL

DRAWN BY: SED

CHECKED BY: SED

SHEET
M1.11B

JOB NO. **2170276.00**

PROJECT 2018-0051
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PERMIT/BID SET 4/24/18

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PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R)	RELOCATE / RELOCATED LOCATION
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- CONTINUATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- EXTENT OF DEMOLITION
- X — FIXTURE TAG (LEVEL BELOW FIXTURE)
- X — KEYED NOTE
- POINT OF CONNECTION
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE

Piping Fittings

- AP — ACCESS PANEL
- AQUASTAT
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- HOSE BIBB / WALL HYDRANT
- OD — OVERFLOW ROOF DRAIN
- PIPE DROP
- PIPE RISE
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

Piping Systems

- COLD WATER PIPING
- D — CONDENSATE / INDIRECT DRAIN PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- 2#G — NATURAL GAS PIPING, 2 LB
- G — NATURAL GAS PIPING, 7" WC PRESSURE
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- CHECK VALVE
- SHUTOFF VALVE, GENERAL

GENERAL PLUMBING NOTES

A. CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECT.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	BASIS OF DESIGN ACCESSORIES	CONNECTION W	CONNECTION V	CONNECTION CW	CONNECTION HW	NOTES
EWC-1	ELECTRIC WATER COOLER	WATER COOLER, WALL MOUNTED, SINGLE BOWL, STAINLESS STEEL BASIN, VANDAL RESISTANT BUBBLER, FRONT/SIDE BUSHBUTTONS, SENSOR-OPERATED BOTTLE FILLER	ELKAY	LZS8WSLP		1-1/2"	1-1/2"	1/2"	--	120V, 1 PH, 370 WATTS
FD-1	FLOOR DRAIN (VINYL FLOOR COVERING)	CAST IRON BODY, FLASHING COLLAR, 5-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER, 4" WIDE FLANGE	JR SMITH	DX2005		2"*	1-1/2"*		--	
L-1	LAVATORY	WALL MOUNTED, ENAMELED CAST IRON, SINGLE HOLE, OVERFLOW	KOHLER	K-2812	FAUCET: MOEN 8884, 0.5 GPM, VANDAL RESISTANT, LEAD FREE, SINGLE TEMPERATURE, METERING	1-1/2"	1-1/2"	1/2"	1/2"	FLOOR MOUNTED CARRIER
WC-1	WATER CLOSET	TANK TYPE, VITREOUS CHINA, BARRIER FREE HEIGHT, ELONGATED, 1.28 GPF, TANK COVER LOCKS	KOHLER	K-3999-T	SEAT: OLSONITE, BLACK, OPEN FRONT, SELF SUSTAINING HINGE	3"	2"	1/2"	--	

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

WATER HEATER SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TANK CAPACITY (GALLONS)	GAS DATA INPUT (MBH)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL AMPS	ELECTRICAL KW	COMMENTS
ETWH-1	ELECTRIC TANKLESS WATER HEATER	TOILET ROOM	EEMAX	EX4208T	N/A	N/A	208	1	20	4.1	56 DEGREES FAHRENHEIT TEMPERATURE RISE, THERMOSTATICALLY CONTROLLED OUTLET TEMPERATURE SET AT 110 DEGREES FAHRENHEIT, 0.3 GPM MINIMUM FLOW, LEAD FREE, REPLACEABLE FILTER, 1/2" COMPRESSION FITTINGS.
ETWH-2	ELECTRIC TANKLESS WATER HEATER	TOILET ROOM	EEMAX	EX4208T	N/A	N/A	208	1	20	4.1	56 DEGREES FAHRENHEIT TEMPERATURE RISE, THERMOSTATICALLY CONTROLLED OUTLET TEMPERATURE SET AT 110 DEGREES FAHRENHEIT, 0.3 GPM MINIMUM FLOW, LEAD FREE, REPLACEABLE FILTER, 1/2" COMPRESSION FITTINGS.

NOTES:

MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	CAPACITY	GAS DATA INPUT (MBH)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL AMPS	ELECTRICAL WATTS	ELECTRICAL HP	COMMENTS
TP-1	TRAP PRIMER	TOILET ROOMS	PRECISION PLUMBING PRODUCTS	MP-500			120	1	2	6.3	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 1 TO 4 DRAINS.

NOTES:

SHEET INDEX

P0.01B SYMBOLS LISTS AND GENERAL NOTES - PLUMBING

P1.11B LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

PROJECT 2018-0051
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Revision Schedule	
Revision Delta	Issue Date

SHEET TITLE:
SYMBOLS LISTS AND GENERAL NOTES - PLUMBING

DRAWN BY: Author

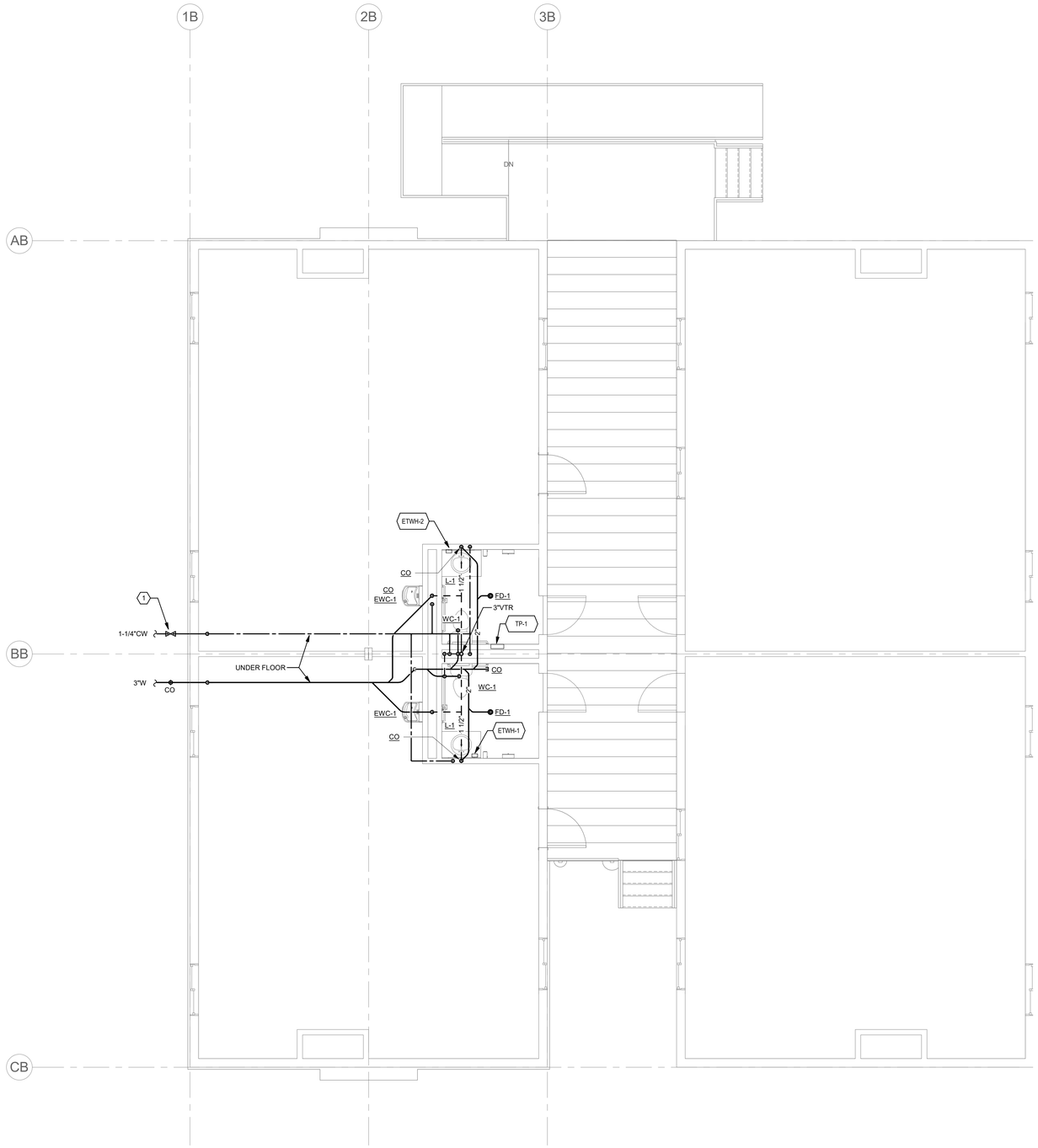
CHECKED BY: Checker

SHEET
P0.01B

JOB NO. 2170276.00

SHEET KEYNOTES

1 SHUT-OFF VALVE IN VALVE BOX.



1 LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

0' 2' 4' 8'

1/4" = 1'-0"

NORTH

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SHEET TITLE:
LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

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SHEET
P1.11B

JOB NO. **2170276.00**

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W	WASTE
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WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- CONTINUATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
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L-1	LAVATORY	WALL MOUNTED, ENAMELED CAST IRON, SINGLE HOLE, OVERFLOW	KOHLER	K-2812	FAUCET: MOEN 8884, 0.5 GPM, VANDAL RESISTANT, LEAD FREE, SINGLE TEMPERATURE, METERING	1-1/2"	1-1/2"	1/2"	1/2"	FLOOR MOUNTED CARRIER
WC-1	WATER CLOSET	TANK TYPE, VITREOUS CHINA, BARRIER FREE HEIGHT, ELONGATED, 1.28 GPF, TANK COVER LOCKS	KOHLER	K-3999-T	SEAT: OLSONITE, BLACK, OPEN FRONT, SELF SUSTAINING HINGE	3"	2"	1/2"	--	

NOTES:
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* UNLESS NOTED OTHERWISE ON DRAWINGS

WATER HEATER SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	TANK CAPACITY (GALLONS)	GAS DATA INPUT (MBH)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL AMPS	ELECTRICAL KW	COMMENTS
ETWH-1	ELECTRIC TANKLESS WATER HEATER	TOILET ROOM	EEMAX	EX4208T	N/A	N/A	208	1	20	4.1	56 DEGREES FAHRENHEIT TEMPERATURE RISE, THERMOSTATICALLY CONTROLLED OUTLET TEMPERATURE SET AT 110 DEGREES FAHRENHEIT, 0.3 GPM MINIMUM FLOW, LEAD FREE, REPLACEABLE FILTER, 1/2" COMPRESSION FITTINGS.
ETWH-2	ELECTRIC TANKLESS WATER HEATER	TOILET ROOM	EEMAX	EX4208T	N/A	N/A	208	1	20	4.1	56 DEGREES FAHRENHEIT TEMPERATURE RISE, THERMOSTATICALLY CONTROLLED OUTLET TEMPERATURE SET AT 110 DEGREES FAHRENHEIT, 0.3 GPM MINIMUM FLOW, LEAD FREE, REPLACEABLE FILTER, 1/2" COMPRESSION FITTINGS.

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MISCELLANEOUS EQUIPMENT SCHEDULE

SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	CAPACITY	GAS DATA INPUT (MBH)	ELECTRICAL VOLTS	ELECTRICAL PH	ELECTRICAL AMPS	ELECTRICAL WATTS	ELECTRICAL HP	COMMENTS
TP-1	TRAP PRIMER	TOILET ROOMS	PRECISION PLUMBING PRODUCTS	MP-500			120	1	2	6.3	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 1 TO 4 DRAINS.

NOTES:

SHEET INDEX

P0.01B SYMBOLS LISTS AND GENERAL NOTES - PLUMBING

P1.11B LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

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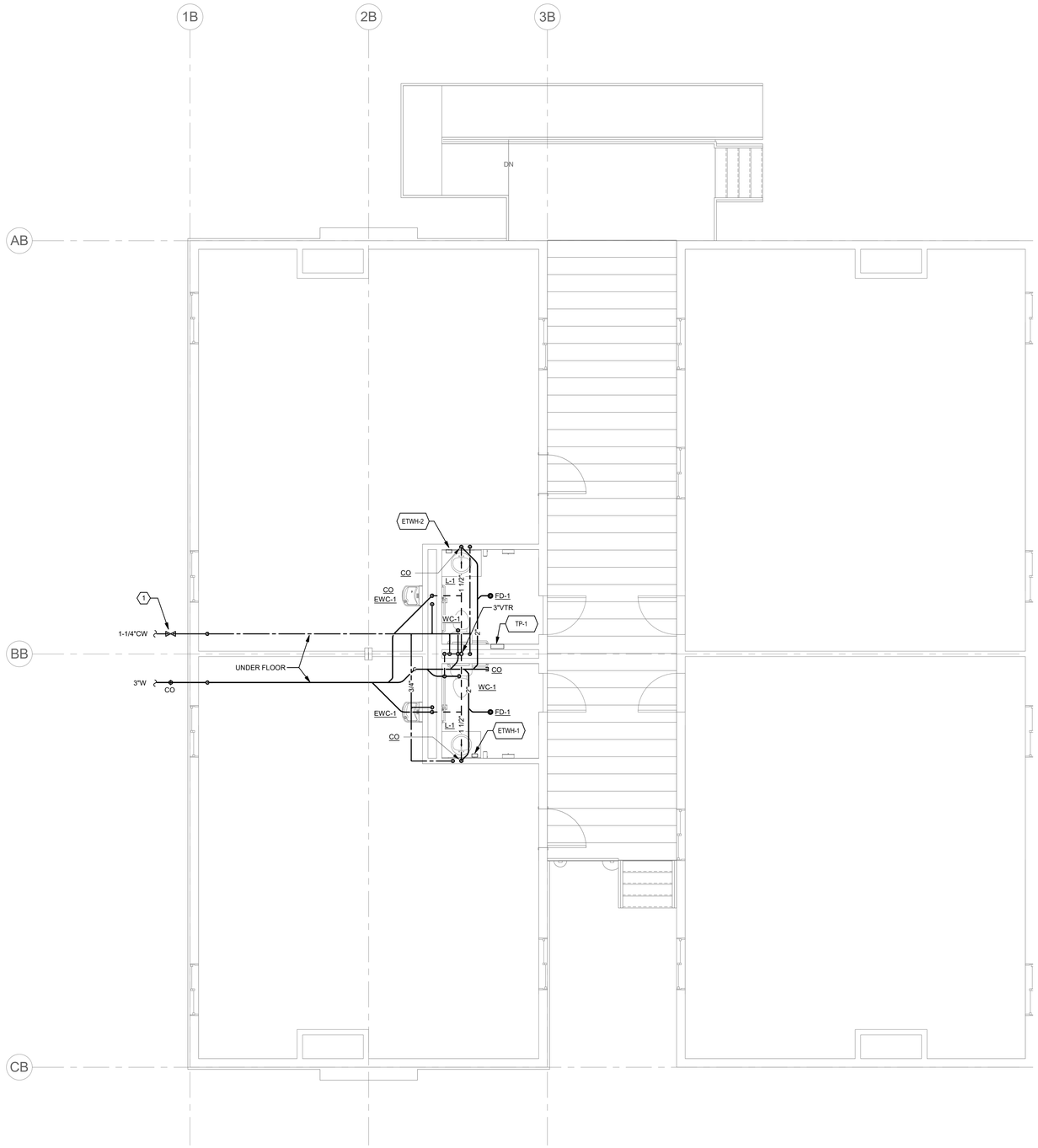
SHEET
P0.01B

JOB NO. 2170276.00

SHEET KEYNOTES

1 SHUT-OFF VALVE IN VALVE BOX.



1 LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

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Client

Portland Public Schools District #1J

Project

PPS - Bridger Elementary School Modular Relocation
7910 SE Market St
Portland, OR 97215

REGISTERED PROFESSIONAL ENGINEER
50530PE
OREGON
JULY 21, 2005
STEVEN E. DAVIS

EXPIRES: 12/31/19

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Revision Schedule

Revision Delta	Issue Date

SHEET TITLE:
LEVEL 1 FLOOR PLAN - BUILDING B - PLUMBING

DRAWN BY: Author

CHECKED BY: Checker

SHEET
P1.11B

JOB NO. **2170276.00**

PROJECT 2018-0051
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FIRE ALARM SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
AHJ	AUTHORITY HAVING JURISDICTION
C	CONDUIT, CLOSE, CONTROL
DIA	DIAMETER
DIV	DIVISION
EA	EACH
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FT	FOOT, FEET
G, GND	GROUND
HH	HANDHOLE
IN	INCH, INCHES
MIN	MINIMUM
MISC	MISCELLANEOUS
NTS	NOT TO SCALE
PG	PROGECTIVE GUARD
QTY	QUANTITY
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
WG	WIRE GUARD

Fire Alarm

NAC	NOTIFICATION APPLIANCE CIRCUIT PANEL EXISTING SILENT KNIGHT
	PULL STATION WITH PROTECTIVE GUARD POTTER APS-DA WITH STI-1130
	SMOKE DETECTOR POTTER PSA
VSR	SPRINKLER FLOW SWITCH WITH INPUT MODULE
VSR	SPRINKLER TAMPER SWITCH WITH INPUT MODULE
	HORN/STROBE COMBINATION (# INDICATES MINIMUM CANDELA RATING) SYSTEM SENSOR P2RL SYSTEM SENSOR P2RK (WEATHERPROOF)
	STROBE, WALL MOUNTED (# INDICATES MINIMUM CANDELA RATING) SYSTEM SENSOR SRL
AIM	ADDRESSABLE INPUT MODULE POTTER SCM-4

FIRE ALARM WIRE LIST (POWER LIMITED)

A	SLC - 1 PAIR 16 AWG SOLID PATHWAY CLASS DESIGNATION: CLASS B/ STYLE 4 PATHWAY SURVIVABILITY: LEVEL 0	** FPLP, FPLR, FPL
B	NOTIFICATION CIRCUIT - 1 PAIR 14 AWG SHIELDED PATHWAY CLASS DESIGNATION: CLASS B/ STYLE Y PATHWAY SURVIVABILITY: LEVEL 0	** FPLP, FPLR, FPL
P	P-LINK CIRCUIT - 2 PAIR 16 AWG TWISTED PATHWAY CLASS DESIGNATION: CLASS B/ STYLE 4 PATHWAY SURVIVABILITY: LEVEL 0	** FPLP, FPLR, FPL

CONDUIT SIZE	CONDUCTOR AREA	CONDUIT SIZE	CONDUCTOR AREA
1/2" 3/4" 1"	0.12 SQ INCH* 0.21 SQ INCH* 0.34 SQ INCH*	1-1/4" 1-1/2" 2"	0.60 SQ INCH* 0.82 SQ INCH* 1.34 SQ INCH*

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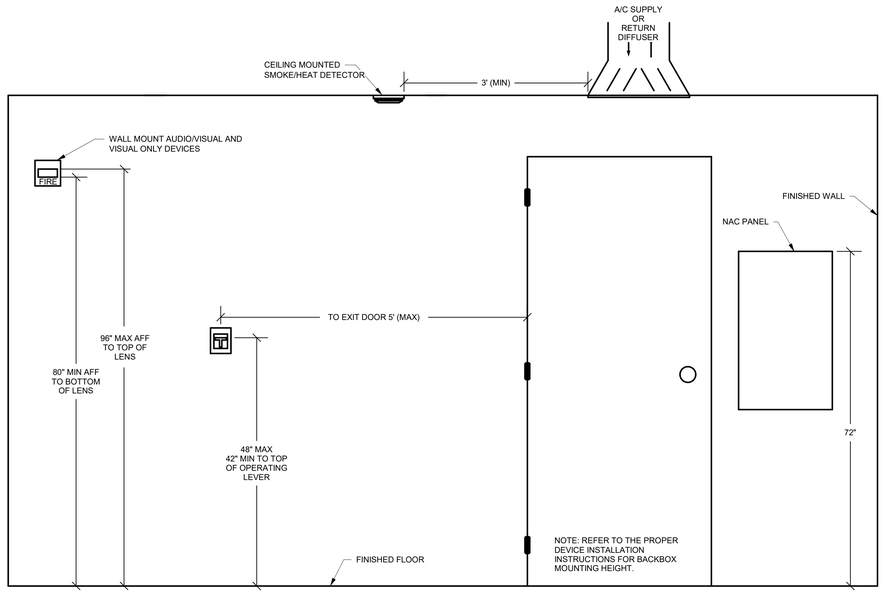
* 40% FILL 2011 N.E.C.
** FPLP FOR PLENUM, FPLR FOR RISER AND FPL FOR ALL OTHER USES.



1 DEVICE MOUNTING HEIGHTS

NO SCALE

GENERAL FIRE ALARM NOTES

A. THE SCOPE OF THIS PROJECT IS TO PROVIDE NOTIFICATION AND DETECTION IN NEW PORTABLE BUILDING.

B. REPROGRAM THE EXISTING FIRE ALARM PANEL TO INCLUDE THE ADDED PORTABLE BUILDING.

C. PROVIDE ACTUAL ROUTING OF FIRE ALARM CIRCUITS ON AS-BUILTS.

SHEET INDEX

FA0.01B	SYMBOLS LISTS AND GENERAL NOTES - FIRE ALARM
FA1.01B	SITE PLAN - BUILDING B - FIRE ALARM
FA1.11B	LEVEL 1 FLOOR PLAN - BUILDING B - FIRE ALARM

PROJECT 2018-0051
CONTACT Jarod Myrick

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SYMBOLS LISTS AND GENERAL NOTES - FIRE ALARM

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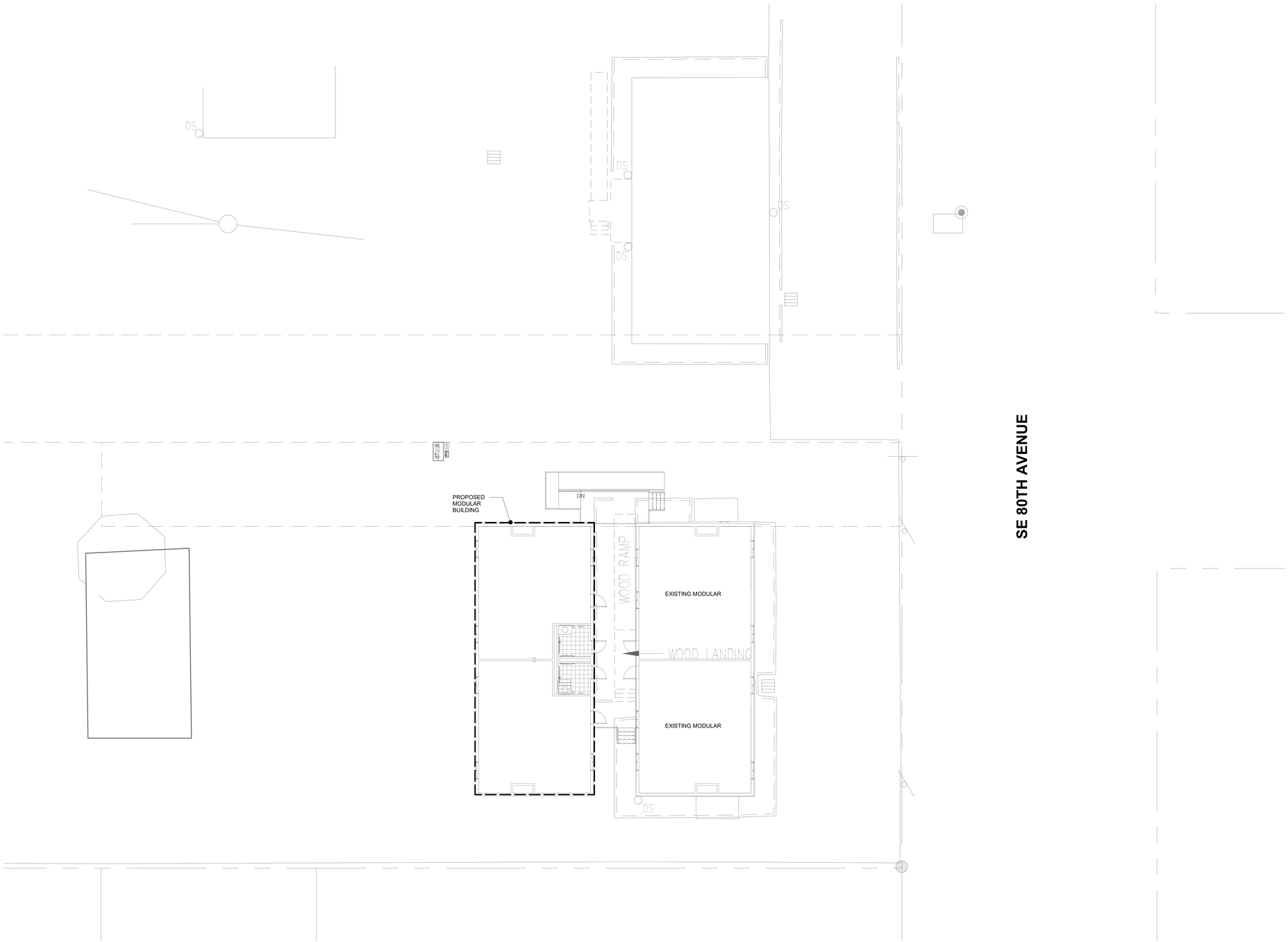
SHEET

FA0.01B

JOB NO. **2170276.00**



1 SITE PLAN - BUILDING B - FIRE ALARM

0' 10' 20'
1" = 10'-0"

NORTH

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SITE PLAN - BUILDING B - FIRE ALARM

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SHEET
FA1.01B

JOB NO. **2170276.00**

PROJECT 2018-0051
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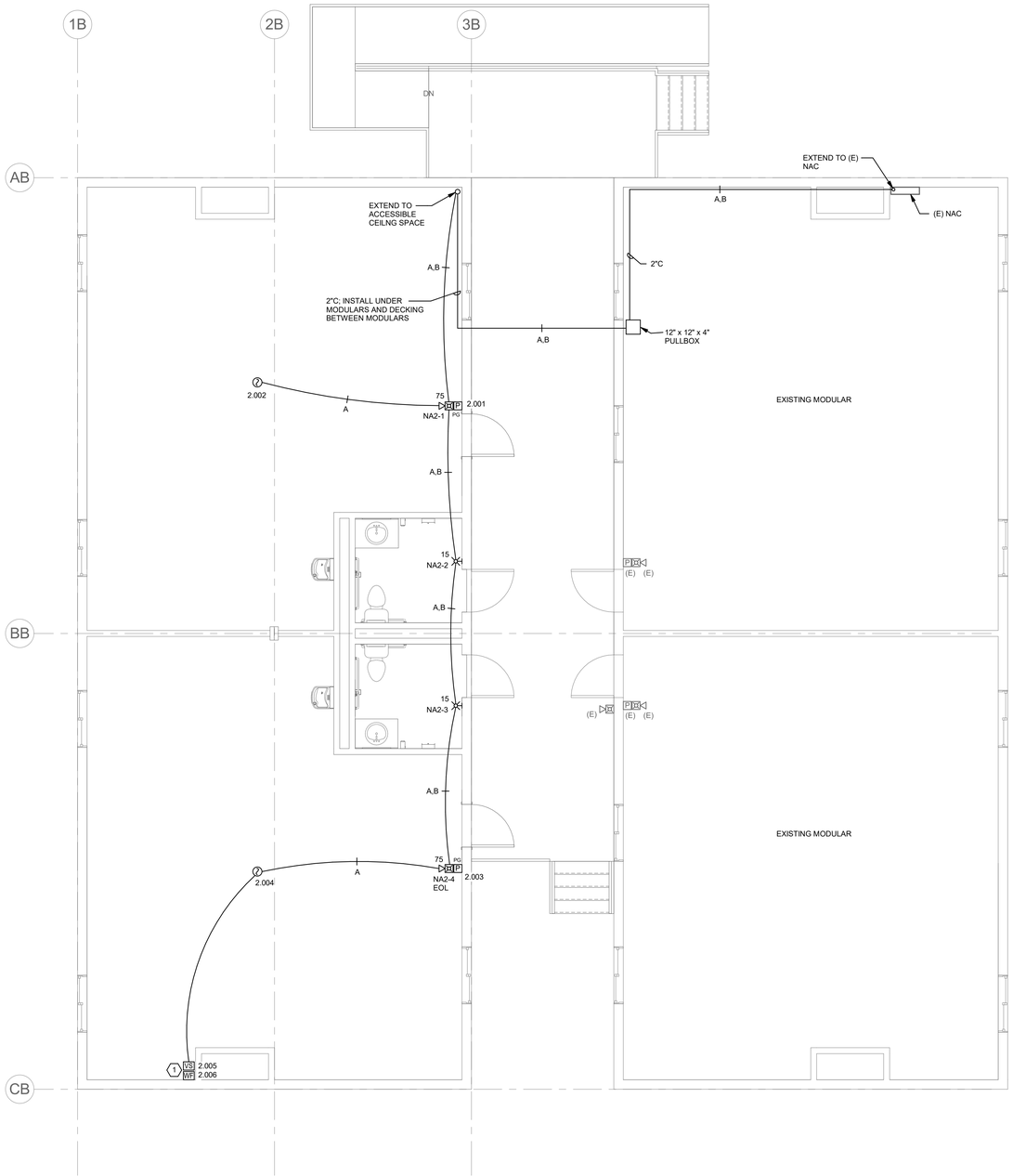
GENERAL SHEET NOTES

A. CONFIRM NEW SLC LOOP NUMBER AND ADJUST DEVICE ADDRESSES AS NEEDED. PROVIDE ON AS-BUILT DRAWINGS.

SHEET KEYNOTES

1 PROVIDE ADDRESSABLE INPUT MODULES TO MONITOR THE FIRE SPRINKLER SYSTEM. COORDINATE EXACT LOCATIONS AND CONNECTIONS WITH FIRE SPRINKLER DESIGN.

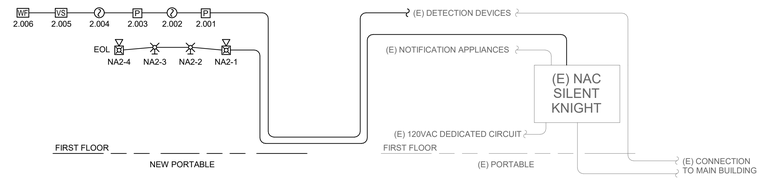


1 LEVEL 1 FIRE ALARM PLAN - BUILDING B

0' 2' 4' 8'

1/4" = 1'-0"

NORTH



2 FIRE ALARM ONE-LINE DIAGRAM

No Scale

EXISTING Power Expander Calculations										
Project Name: PPS BRIDGER ES PORTABLE							Standby Hours: 24			
Project ID: 2018-0051							Alarm Mins: 5			
Prepared By: JAROD MYRICK							Derating Factor: 1.2			
Date: 4/4/2018							Voltage Drop Warning Threshold %: 10			
Panel ID: NAC		Model: 5495 Power Expander					Max NAC Current: 3.0 Amps			
Location: EXISTING PORTABLE		Volts: 24 VDC					Max Panel Current: 6.0 Amps			
Ckt.#	Circuit Name	Current Draw Standby	Current Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop	
5495	5495 Pwr Module	0.075	0.205							
NAC #1	5495 Circuit 1 ####	0.000	0.528	#14 Solid	2.52	100	0.50	20.13	1.30%	
NAC #2	5495 Circuit 2 ####	0.000	0.484	#14 Solid	2.52	200	1.01	19.91	2.39%	
NAC #3	5495 Circuit 3 ####	0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%	
NAC #4	5495 Circuit 4 ####	0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%	
Aux	5495 Aux Power Out ####	0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%	
Total Standby Current (Amps)		0.075	1.217	Total Alarm Current (Amps)						
Standby Time In Hours		24	0.083	Alarm Time In Minutes / 60		(5 Mins)				
Total Standby AH Required		1.800	0.101	Total Alarm AH Required						
Total Combined AH Required		1.90								
Multiply By The Derating Factor		1.20								
Minimum Battery AmpHours Required		**2.28**								

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SHEET

FA1.11B

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ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AC	ALTERNATING CURRENT, AIR CONDITIONER
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AV	AUDIO VISUAL
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BC	BARE COPPER
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
CB	CIRCUIT BREAKER
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
CT	CURRENT TRANSFORMER
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
F	FUSE
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HH	HANDHOLE
HT	HEIGHT
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MDB	MAIN DISTRIBUTION BOARD
MOCP	MAXIMUM OVERCURRENT PROTECTION
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
M	MOTOR
MCC	MOTOR CONTROL CENTER
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SPKR	SPEAKER
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TTB	TELEPHONE TERMINAL BOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TP	TRANSITION POINT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VRFY	VERIFY
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
W	WIRE, WHITE
W/	WITH
W/O	WITHOUT

Connections / Equipment

- BASEBOARD ELECTRIC HEATER
- ELECTRIC RADIANT HEATER
- ELECTRIC RECESSED WALL MOUNTED HEATER FAN FORCED
- HEAVY DUTY FUSED DISCONNECT SWITCH
- J OR J — JUNCTION BOX
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- WALL-MOUNTED JUNCTION BOX

Fire Alarm

- REMOTE TEST SWITCH
- FACP — FIRE ALARM CONTROL PANEL
- NAC — NOTIFICATION APPLIANCE CIRCUIT PANEL
- FAA — FIRE ALARM ANNUNCIATOR PANEL

General

- X/X — DETAIL NUMBER AND SHEET LOCATION
- T — KEYED NOTE
- 1/XXX — SECTION NUMBER AND SHEET LOCATION
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- COMBINATION EXIT SIGN CEILING MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK. ARRROW(S) INDICATES DIRECTION IF SHOWN
- COMBINATION EXIT SIGN WALL MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK. ARRROW(S) INDICATES DIRECTION IF SHOWN
- EMERGENCY LUMINAIRE WITH BATTERY PACK
- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED 2' X 4' LUMINAIRE
- RECESSED LUMINAIRE
- WALL MOUNTED LUMINAIRE

Miscellaneous

- #10 / B-27,29,31. — BRANCH CIRCUIT WIRING, ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
- FLUSH WALL MOUNTED BRANCH PANEL
- GB — GROUND BAR
- GROUNDING POINT
- PP — POWER UTILITY POLE

Raceways

- EXISTING CONDUIT CONCEALED IN WALL OR CEILING SPACE
- EXISTING CONDUIT ROUTED BELOW FLOOR / GRADE
- —OP— OVERHEAD PRIMARY SERVICE
- —OS— OVERHEAD SECONDARY SERVICE
- —OT— OVERHEAD TELEPHONE SERVICE
- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

Switches and Receptacles

- COMBINATION COMMUNICATIONS OUTLET AND DUPLEX RECEPTACLE, FLUSH FLOOR
- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- EQUIPMENT ELECTRICAL CONNECTION
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

TECHNOLOGY SYMBOL LIST

Audio/Video

- AUDIO-VIDEO OUTLET WITH 5-SQUARE RANDL BOX, SINGLE-GANG ADAPTER PLATE AND 1-1/4" CONDUIT TO ACCESSIBLE CEILING SPACE UON. INSTALL HDMI CABLE FROM OUTLET TO SHORT THROW PROJECTOR.

Electronic Security

- MS — CEILING MOUNTED MOTION DETECTION SENSOR
- K — WALL MOUNTED KEYPAD

Equipment

- 2-POST EQUIPMENT RACK
- DOUBLE-SIDED VERTICAL WIRE MANAGEMENT
- MAJOR EQUIPMENT, CABINETS OR PANELS

Paging/Intercom

- CEILING SPEAKER

Raceways

- CABLE RUNWAY, WIDTH AS INDICATED
- CONDUIT AND CONDUCTORS ABOVE GRADE
- CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB
- CONDUIT DOWN
- CONDUIT SLEEVE
- CONDUIT UP
- CONDUIT/WIRING CONTINUATION
- FLEXIBLE CONDUIT
- HH — HANDHOLE
- PB — PULL BOX
- VT — TELECOMMUNICATIONS VAULT
- TELEPHONE BACKBOARD

Reference Symbols

- 1/XXX — DETAIL NUMBER AND SHEET LOCATION
- T — KEYED NOTES
- 1/XXX — SECTION NUMBER AND SHEET LOCATION

Telecommunications

- ALTERNATE COMMUNICATIONS OUTLET (X):
  W= LOCATION FOR FLUSH MOUNT WIRELESS ACCESS POINT OUTLET WITH (2) CAT6A CABLES TO NEAREST MDF/IDF AND 1"C. ACCESSIBLE CEILING SPACE. UON.
- STANDARD COMMUNICATIONS OUTLET WITH (3) CAT6 CABLE(S) TO NEAREST MDF/IDF AND 1"C. TO ACCESSIBLE CEILING SPACE.

SHEET INDEX

E0.01B	SYMBOLS LISTS AND GENERAL NOTES - ELECTRICAL
E1.01B	SITE PLAN - BUILDING B - POWER & SIGNAL
E1.02B	SITE PLAN - BUILDING B - PGE PLAN
E1.11B	LEVEL 1 FLOOR PLAN - BUILDING B - ELECTRICAL
E5.10B	SINGLE LINE DIAGRAM & SCHEDULES - BUILDING B - ELECTRICAL

PROJECT 2018-0051
CONTACT Jessica Kaplan

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SYMBOLS LISTS AND GENERAL NOTES - ELECTRICAL

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CHECKED BY: Checker

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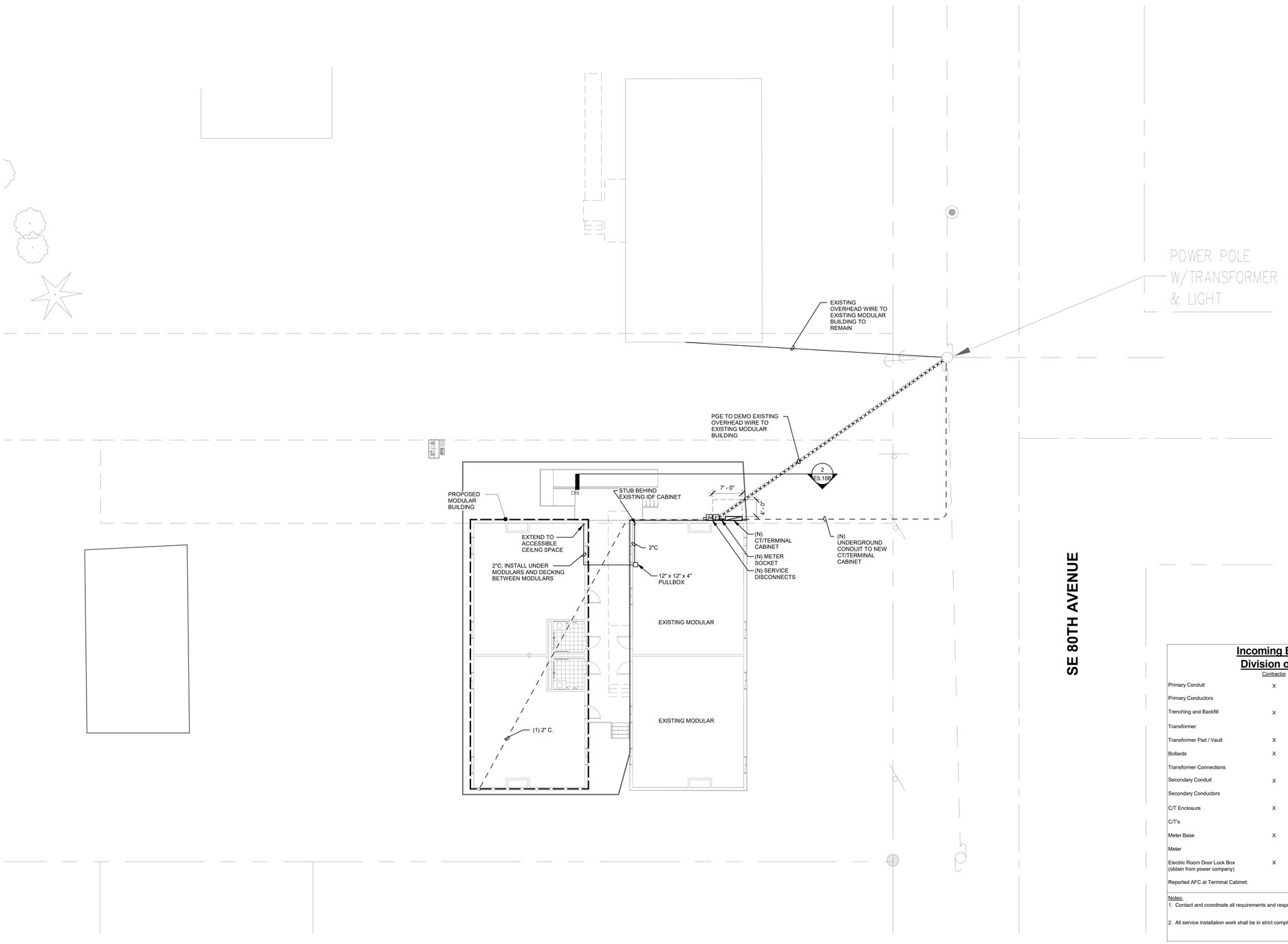
E0.01B

JOB NO. 2170276.00



1 SITE PLAN - BUILDING B - POWER & SIGNAL

0' 10' 20'

1" = 10'-0"

SE 80TH AVENUE

Incoming Electrical Service Division of Responsibility

	Contractor	Utility
Primary Conduit	X	
Primary Conductors		X
Trenching and Backfill	X	
Transformer		X
Transformer Pad / Vault	X	
Bollards	X	
Transformer Connections		X
Secondary Conduit	X	
Secondary Conductors		X
C/T Enclosure	X	
C/T's		X
Meter Base	X	
Meter		X
Electric Room Door Lock Box (obtain from power company)	X	
Reported AFC at Terminal Cabinet:		12,550A

Contacts:
Power Utility:
Bryan Hangartner
Portland General Electric
Phone: (503) 936-6988
E-mail: bryan.hangartner@pgn.com

Notes:
1. Contact and coordinate all requirements and responsibilities with serving utility companies prior to submitting bid.

2. All service installation work shall be in strict compliance with the requirements of the serving utilities.

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Client

Portland Public Schools District #1J

Project

PPS - Bridger Elementary School Modular Relocation
7910 SE Market St
Portland, OR 97215

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 14, 1978
DAVID NORMAN CHESLEY
EXPIRES: 12/31/19

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Revision Schedule	
Revision Delta	Issue Date

SHEET TITLE:
SITE PLAN - BUILDING B - POWER & SIGNAL

DRAWN BY: Author

CHECKED BY: Checker

SHEET
E1.01B

JOB NO. **2170276.00**

PROJECT 2018-0051
CONTACT Jessica Kaplan
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FAX 503.382.2262
www.interfaceengineering.com

PERMIT/BID SET 4/24/18

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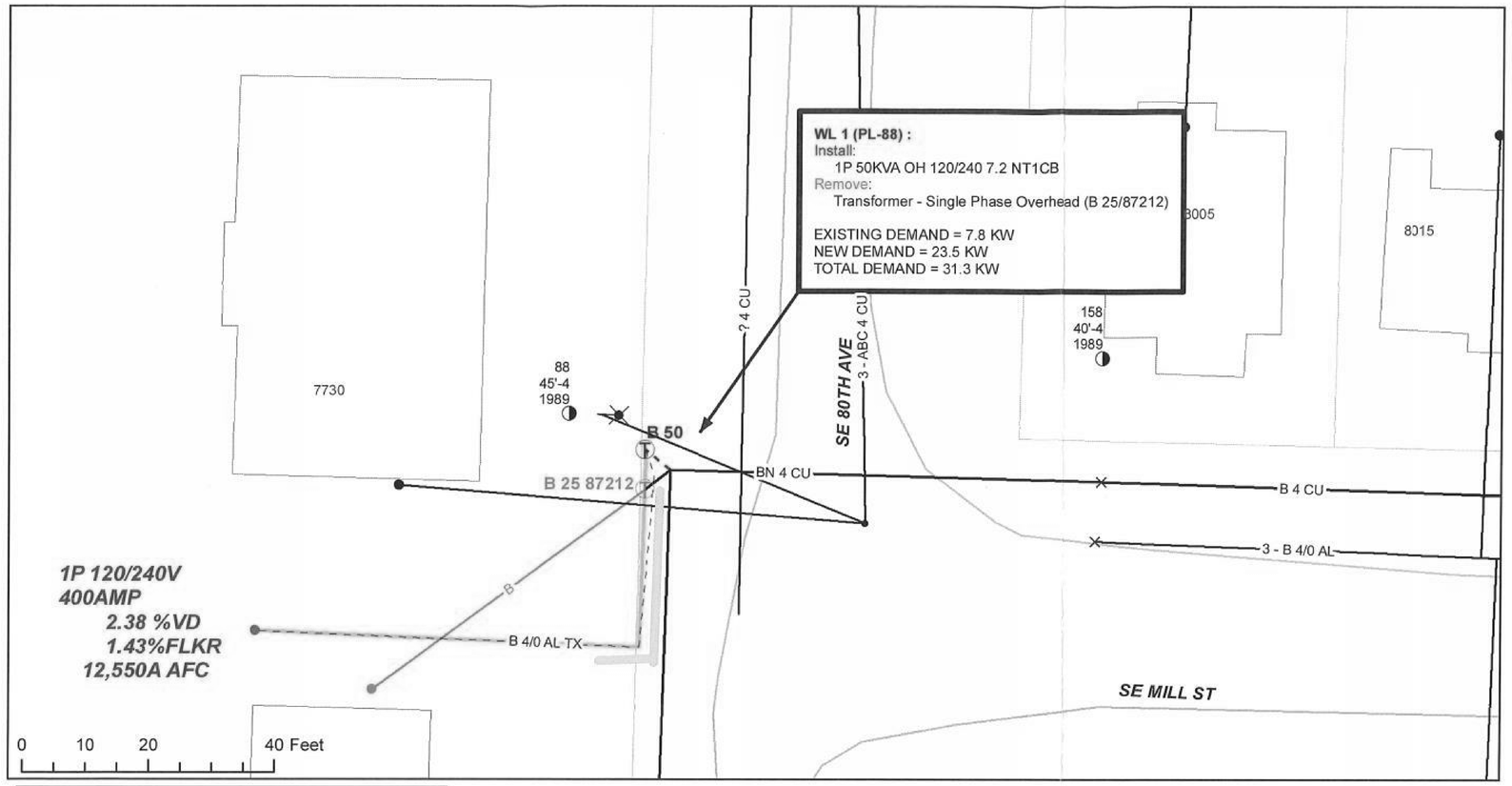


COMMERCIAL LEGEND

NEW PGE FACILITIES TO BE INSTALLED
(UNLESS OTHERWISE SPECIFIED)

- - - - - - - - *INSTALL 1-4/0 AL-TX UG SECONDAY IN 1 OF 2-3" PVC CONDUITS, PROVIDED & INSTALLED BY CUSTOMER (1-3" SPARE)*

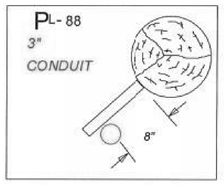
CONSTRUCTION NOTES: *CMDEV*

1. CUSTOMER IS RESPONSIBLE FOR ALL TRENCH, CONDUIT, VAULTS, PADS AND ROAD CROSSINGS.
2. ALL CONDUIT TO BE INSTALLED WITH 30 INCHES (MIN) COVER AT TOP OF CONDUIT FROM FINAL GRADE.
3. ALL PGE CONDUCTORS TO BE INSTALLED IN GRAY, SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN. 500 LBS. TEST). PGE TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. MAINTAIN 12 VERTICAL INCHES AND 24 HORIZONTAL INCHES CLEARANCE BETWEEN GAS AND OTHER UTILITIES. ALL ELBOWS 4 INCH & SMALLER TO BE 36 INCH RADIUS. ALL BENDS MUST BE FACTORY MADE. ALL ELBOWS LARGER THAN 4 INCH TO BE 60 INCH RADIUS. RIGID STEEL OR PGE APPROVED. FIBERGLASS BENDS ARE REQUIRED FOR RUNS OF 151 FEET OR LONGER, OR FOR ANY LENGTH RUN WITH MORE THAN 180 DEGREES IN BENDS. PVC SCHEDULE 40 BENDS ARE ACCEPTABLE FOR RUNS OF 150 FEET OR LESS. THE MAXIMUM TOTAL BENDS IN ANY CONDUIT RUN IS 270 DEGREES.
4. DIRECTIONAL BORING REQUIREMENTS: BLACK HDPE (HIGH DENSITY POLYETHELINE) DUCT OR SCHEDULE 40 PVC WITH A MECHANICAL CONNECTION (CERTA-LOK OR LIKE MECHANICAL CONNECTION PRODUCT) AS AN ALTERNITIVE TO HDPE DUCT. HDPE SHALL MEET THE REQUIREMENTS OF PGE SPECIFICATION LC20515 (AVAILABLE ON REQUEST FROM PGE PROJECT EXTRUDED RED STRIPES (WHICH IS A SPECIFICATION REQUIREMENT). MANDREL TEST OF HDPE PIPE IS REQUIRED AFTER INSTALLATION WITH PGE INSPECTOR PRESENT.
5. ALL PGE TRANSFORMERS TO BE INSTALLED 8 FEET (MIN) FROM ANY COMBUSTIBLE BUILDING, WALL OR OVERHANG AND 4 FEET (MIN) FROM ANY FIRE HYDRANT. PGE TRANSFORMERS MUST BE WITHIN 15 FEET OF A DRIVEABLE AREA. ALWAYS MAINTAIN 10 FEET CLEARANCE IN FRONT OF ALL TRANSFORMERS.
6. TRANSFORMER PADS ARE TO BE SET SO THAT THE TOP IS 2 INCHES ABOVE FINAL GRADE. CONDUIT IS TO BE INSTALLED IN PAD AS INDICATED IN DETAIL AND TO EXTEND 1 INCH ABOVE THE PAD.
7. STEEL BARRIER POSTS ARE REQUIRED AROUND TRANSFORMERS THAT ARE EXPOSED TO VEHICLES.
8. ALL SWITCH VAULTS TO BE SET AT FINAL GRADE WITH 6 INCH GRAVEL BASE AND CONUDITS ALIGNED TO ENTER THE VAULT END LOWER KNOCKOUTS (TERM-A-DUCTS). (SEE DETAIL ON SKETCH)
9. PGE TO BE NOTIFIED AND INSPECT ALL CONDUIT, VAULT AND PAD INSTALLATIONS, BEFORE BACKFILL. ALL NEW VAULT & PAD LOCATIONS TO BE FIELD VERIFIED WITH PGE AND CUSTOMER REPRESENTATIVE.
10. REFER TO PGE ELECTRICAL SERVICE REQUIREMENTS BOOK FOR FURTHER DETIALS & SPECIFIC REQUIREMENTS. LINK TO WWW.PORTLANDGENERAL.COM
11. DESIGN IS BASED ON STANDARD UNDERGROUND EQUIPTMENT. NON-STANDARD UNDERGROUND EQUIPTMENT MAY BE AN OPTION AT AN ADDITIONAL COST TO THE CUSTOMER.
12. THE POINT OF DELIVERY AND DIVISION OF OWNERSHIP BETWEEN THE CUSTOMER AND PGE WILL BE AT THE LINE SIDE OF THE NEW CUSTOMER PROVIDED SWITCH GEAR.

PERMIT MAP

DATE:

DESCRIPTION:



CONTACT FIELD CONSTRUCTION COORDINATOR
AND/OR CONDUIT INSPECTOR 7 TO 10 WORKING DAYS PRIOR TO EXCAVATION. CONDUIT INSPECTION REQUIRED PRIOR TO BACKFILL. PGE WILL NOT INSTALL WIRE UNTIL TRENCH IS 100% BACKFILLED.
JOHN HAVENS CONDUIT INSPECTOR CELL: 503-260-1741

ANY DEVIATION FROM THIS DESIGN MUST BE APPROVED BY THE PGE PROJECT MANAGER

PGE CONSTRUCTION DRAWING

AS-BUILT VERIFICATION & NESC VIOLATIONS CORRECTED
This document accurately represents FIELD Construction

Foreman: Date:
General Foreman: Date:
(Signature only required for field construction changes.)

SDPM/ENG REVIEW: ASBUILT BY DESIGNER:

DATE:	SCALE:	ACCOUNT:	AWO:	JOB NO.
3/12/2018	1 in : 20 ft	1070001	1000004599	M2478139

TITLE: BRIDGER ELEMENTARY MODULAR CLASSROOM
CIRCUIT: KELLY BUTTE-BINNSMEAD | SIZE: 11 x 17
LOCATION: 7910 SE MARKET ST, PORTLAND, OR, 97215
DESCRIPTION: INSTALL 400A 1P 120/240V UG SVC TO MODULAR CLASSROOM | SHEET: 1 OF 1

COUNTY	SECTIONS	WORK WITH
MULTNOMAH	D1205D	

DESIGN BY	PHONE (503)	DRAWN BY
Bryan Hangartner	963-6988	HANGARTNER

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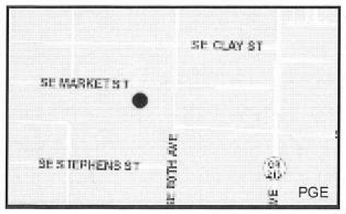
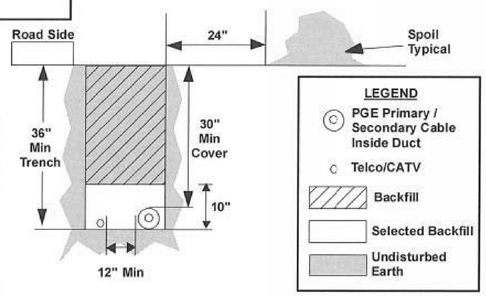
RIGHT-OF-WAY PERMIT NOTICE:

A PERMIT FROM THE LOCAL JURISDICTION IS REQUIRED BEFORE ANY WORK IN THE RIGHT-OF-WAY MAY BE PERFORMED. ONLY PGE APPROVED CONTRACTORS AND CONTRACTORS WHO HAVE MADE OTHER SPECIAL AGREEMENTS WITH PGE WILL BE ALLOWED TO WORK UNDER PGE'S PERMIT. THE CONTRACTOR MUST NOTIFY THE LOCAL JURISDICTION 48 HOURS BEFORE WORK IS TO BEGIN. A COPY OF THE PERMIT MUST BE ON SITE.

Vicinity Map





Joint Use Trench W/O Gas

CALL 811 BEFORE YOU DIG

ATTENTION:
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090 YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER ADMINISTRATION @ (502-232-1987)
TO REQUEST UTILITY LOCATES CALL THE OREGON UTILITY NOTIFICATION CENTER, 811 AT LEAST 2 BUSINESS DAYS PRIOR TO EXCAVATION

811 Know what's **below.** **Call** before you dig.

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Client
Portland Public Schools District #1J

Project
PPS - Bridger Elementary School Modular Relocation
7910 SE Market St
Portland, OR 97215

REGISTERED PROFESSIONAL ENGINEER — OREGON — JULY 9, 1999 — DAVID NORMAN CHESLEY
EXPIRES: 12/31/19

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Revision Schedule

Revision Delta	Issue Date

SHEET TITLE:
SITE PLAN - BUILDING B - PGE PLAN

DRAWN BY: Author

CHECKED BY: Checker

SHEET
E1.02B

JOB NO. **2170276.00**

PROJECT 2018-0051
CONTACT Jessica Kaplan
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GENERAL SHEET NOTES

A. DEVICE LOCATIONS AND CIRCUITING BASED ON EXISTING DRAWINGS. FIELD VERIFY ALL CIRCUITS AND LOCATIONS.

B. COMMUNICATION DEVICES ORIGINATE FROM THE (E) IDF IN THE ADJACENT MODULAR BUILDING.

C. SECURITY DEVICES ORIGINATE FROM THE EXISTING MDF IN THE BUILDING. UTILIZE EXISTING PATHWAY FROM THE ADJACENT MODULAR BUILDING TO THE MDF.

SHEET KEYNOTES

1 PROVIDE CONNECTION TO ELECTRONIC TRAP PRIMER. COORDINATE WITH PLUMBING CONTRACTOR.

2 EXISTING LOCATION TO BE DEMOLISHED. PROVIDE BLANK COVER.

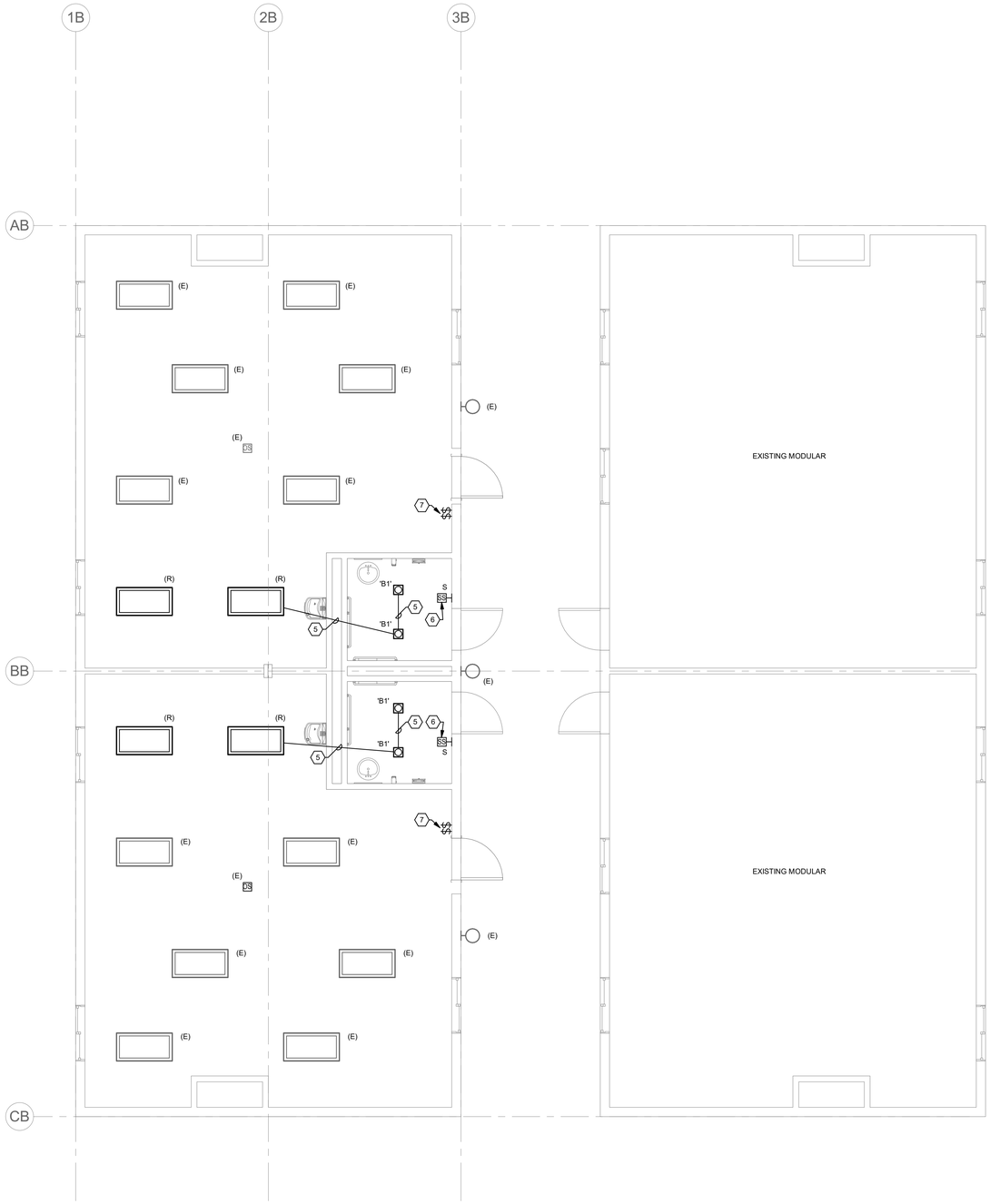
3 INSTALL ABOVE WHITE BOARD FOR OWNER FURNISHED CONTRACTOR INSTALLED SHORT THROW PROJECTOR.

4 PROVIDE POWER FOR WATER-COOLED DRINKING FOUNTAIN, COORDINATE RECEPTACLE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE GFCI BREAKER.

5 EXTENDING EXISTING LIGHTING CIRCUIT TO NEW LUMINAIRES.

6 OCCUPANCY SENSOR/SWITCH TO CONTROL BOTH LIGHTS AND CEILING EXHAUST FAN. COORDINATE WITH DIVISION 23.

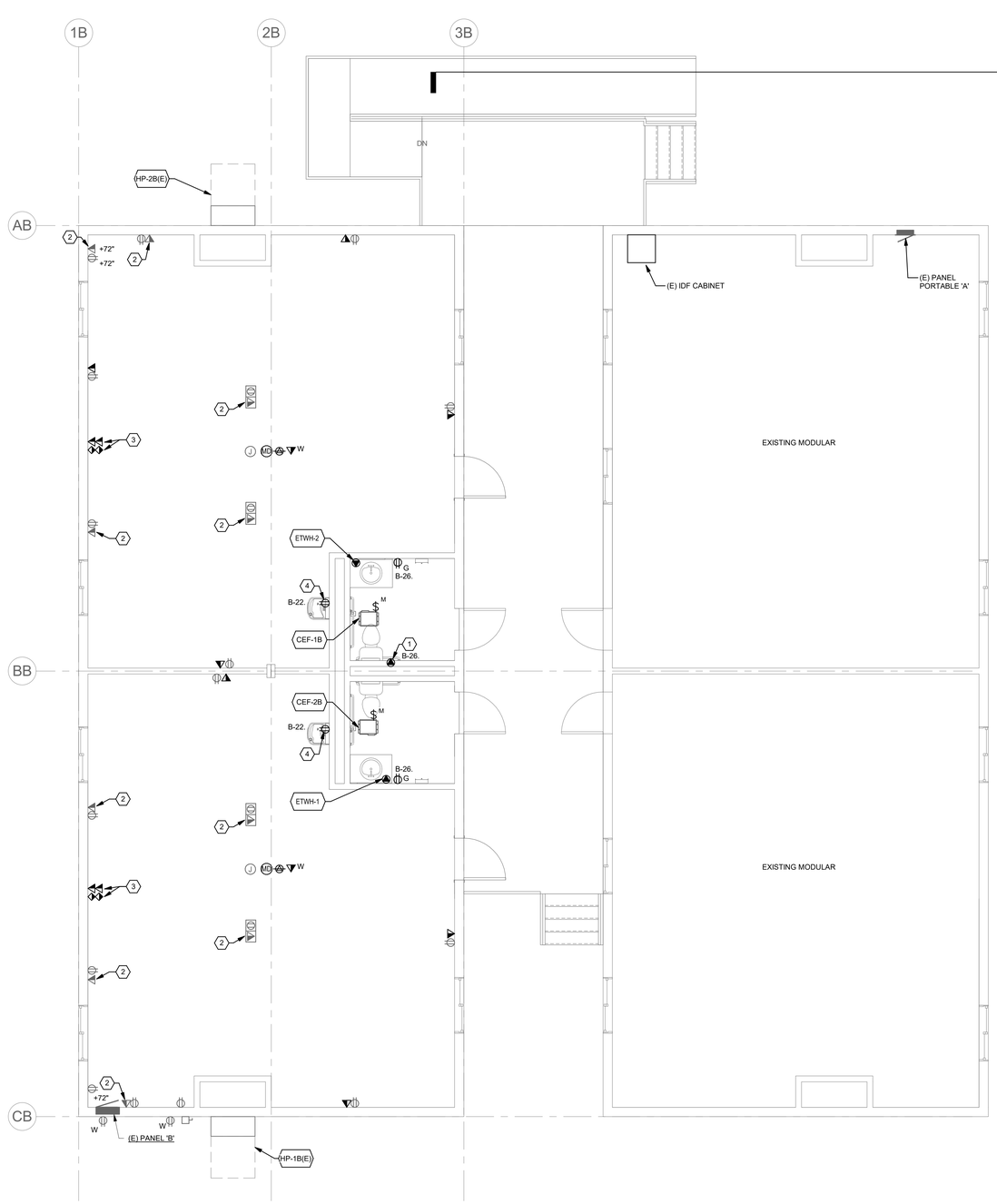
7 RELOCATE SWITCHES TO NEW LOCATION AND RECONNECT.



1 LEVEL 1 LIGHTING PLAN - BUILDING B

0' 2' 4' 8'

1/4" = 1'-0"



2 LEVEL 1 POWER PLAN - BUILDING B

0' 2' 4' 8'

1/4" = 1'-0"

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JULY 14, 2006
DAVID NORMAN CHESLEY
EXPIRES: 12/31/19

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Revision Schedule	
Revision Delta	Issue Date

SHEET TITLE:

LEVEL 1 FLOOR PLAN - BUILDING B - ELECTRICAL

DRAWN BY: Author

CHECKED BY: Checker

SHEET

E1.11B

JOB NO. **2170276.00**

PROJECT 2018-0051
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PERMIT/BID SET 4/24/18

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2018-0051

(E) Panel 'B'-BLDG B

(1) 120/240V, 1Ph, 3W,; 225A Bus with 200A Main Circuit Breaker Flush Mounted Load Center

Ckt. No.	Description / Location	Load (VA)	Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA)	Type	Description / Location	Ckt. No.
1	(E) LIGHTS	743	L	20/1		A		60/2	5,720	M	(E) MECHANICAL UNIT A	2
3	(E) LIGHTS	704	L	20/1		C		-	5,720	M	---	4
5	(E) RECEPTACLES	1,080	R	20/1		A	3	30/2		M	---	6
7	(E) RECEPTACLES	1,080	R	20/1		C	3	-		M	---	8
9	(E) RECEPTACLES	1,080	R	20/1		A		60/2	5,720	M	(E) MECHANICAL UNIT B	10
11	(E) RECEPTACLES	1,080	R	20/1		C		-	5,720	M	---	12
13	(E) RECEPTACLES	360	R	20/1		A	3	30/2		M	---	14
15	(E) RECEPTACLES	360	R	20/1		C	3	-		M	---	16
17	**(N) ETWH-1**	**2,400**	**H**	**25/2**	**1**	**A**		20/1	500	G	(E) DEDICATED RECEPTACLE	18
19	**---**	**2,400**	**H**	**-**		**C**		20/1	500	G	(E) DEDICATED RECEPTACLE	20
21	**(N) ETWH-2**	**2,400**	**H**	**25/2**	**1**	**A**	**1,2**	**20/1**	**1,200**	**G**	**DRINKING FOUNTAINS**	22
23	**---**	**2,400**	**H**	**-**		**C**	**1**	**15/1**	**284**	**M**	**CEF-1B, CEF-2B**	24
25	(E) SPACE					**A**	**1**	**20/1**	**360**	**R**	**R - RESTROOM RECEPTACLES**	26
27	(E) SPACE					**C**					(E) SPACE	28
29	(E) SPACE					**A**					(E) SPACE	30
31	(E) SPACE					**C**					(E) SPACE	32
33	(E) SPACE					**A**					(E) SPACE	34
35	(E) SPACE					**C**					(E) SPACE	36
37	(E) SPACE					**A**					(E) SPACE	38
39	(E) SPACE					**C**					(E) SPACE	40
41	(E) SPACE					**A**					(E) SPACE	42

Connected Load:	Ph. A	21,563 VA	180 Amps	Panel Connected Load:	41.8 KVA 174.2 Amps
				Sub-Fed Connected Load:	0.0 KVA 0.0 Amps
Connected Load:	Ph. C	20,248 VA	169 Amps	**Total Demand Load:**	**45.0 KVA 187.6 Amps**

Notes:
1. PROVIDE NEW BREAKER, MATCH EXISTING BREAKER'S MANUFACTURER AND AIC RATING.
2. PROVIDE 6mA GFCI CIRCUIT BREAKER
3. MECHANICAL UNIT HEATING LOAD NOT INCLUDED IN LOAD SUMMARY IN ACCORDANCE WITH NEC ARTICLE 220.60
4.

Accessories:

BUILDING B MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOCATION	VOLTS / PHASE	LOAD	MCA	MOCP	WIRE / CONDUIT	CIRCUIT	NOTES
CEF-1B	EXHAUST FAN	REST ROOM	120/1	128 W		15	202	B-24.	
CEF-2B	EXHAUST FAN	REST ROOM	120/1	128 W		15	202	B-24.	
ETWH-1	WATER HEATER	REST ROOM	240/1	20 A		25	302	B-17,19.	
ETWH-2	WATER HEATER	REST ROOM	240/1	20 A		25	302	B-21,23.	

GENERAL MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

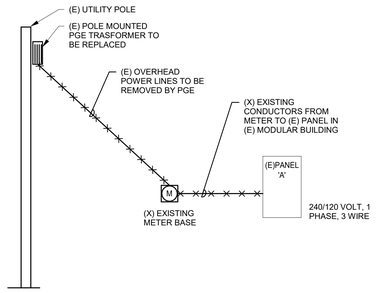
A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

B. MOCP = MAXIMUM OVER CURRENT PROTECTION
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

WIRE / CONDUIT SCHEDULE

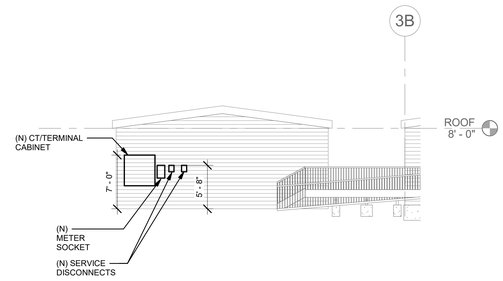
202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.
302 2 #10 CU, 1 #10 CU GND., IN 3/4" C.



FEEDER SCHEDULE

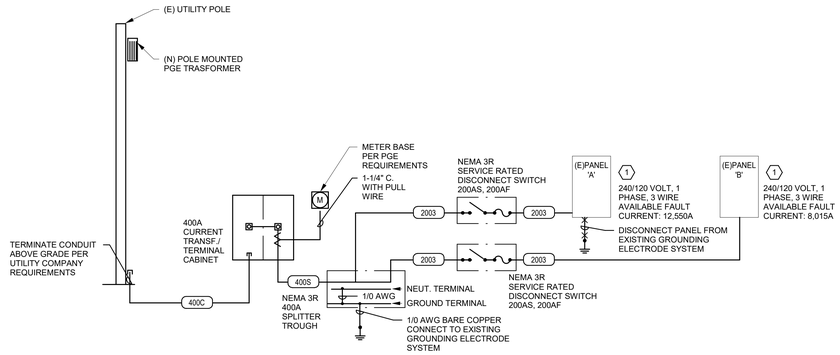
A,C,S,X A=Aluminum
C-Conduit only
S=Service secondary
X=Separately derived system

200S	3 #3/0 CU IN 2" C.
400C	TWO 3" DIAMETER EMPTY CONDUIT WITH PULL CORD
400S	2 SETS OF (4 #3/0 CU IN 2" C.)
2003	3 #3/0 CU, 1 #6 CU GND., IN 2" C.



2 EXISTING MODULAR NORTH ELEVATION

0' 4' 8' 16'
1/8" = 1'-0"



1 ONE-LINE POWER DISTRIBUTION DIAGRAM

NO SCALE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	SHIELDING	MOUNTING	FINISH	UL/IP RATING	DRIVER/POWER SUPPLY	LAMP(S)	INPUT WATTS	MFG/CATALOG #	NOTES
B1	4" LED DOWNLIGHT	STEEL	WHITE REFLECTOR	RECESSED	WHITE	DAMP	INTEGRAL 0-10V DIMMING	575 LUMENS, 4000K, 90+ CRI	9.5	CREE CR4 575L 40K 12 E26 RC4 OR APPROVED EQUIVALENT	

NOTES:
1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.
2 DIMMING CONTROL PROTOCOL ((0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.
3 COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.
4 SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
5 PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND BALLAST INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
6 REMOTE BALLASTS/DRIVERS: UL LISTED FOR THEIR APPLICATION. BALLASTS/DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.

SHEET KEYNOTES

1 VERIFY AIC RATING OF EXISTING PANEL. REPLACE PANEL AND BREAKERS WITH NEW IF EXISTING PANEL IS NOT RATED FOR NEW AVAILABLE FAULT CURRENT.

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DESIGN DRIVEN | CLIENT FOCUSED

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DAVID NORMAN CHESLEY
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Revision Schedule	
Revision Delta	**Issue Date**

SHEET TITLE:
SINGLE LINE DIAGRAM & SCHEDULES - BUILDING B - ELECTRICAL

DRAWN BY: Author

CHECKED BY: Checker

SHEET
E5.10B

JOB NO. **2170276.00**

PROJECT 2018-0051
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C:\Users\jessicak.IEICE\Documents\PPS_Modulars MEP Central v17_jessicak.rvt 4/20/2018 11:20:31 AM As indicated