

OTC RICHWOOD VALLEY CAMPUS FEMA SHELTER INFILL

3369 W. JACKSON ST, NIXA, MISSOURI 65714

CODE REVIEW INFORMATION:

APPLICABLE CODES:

MUNICIPALITY: CITY OF NIXA
 BUILDING: 2006 IBC
 ENERGY: 2006 IECC
 FIRE PREVENTION: 2003 IFC
 PLUMBING: 2006 IPC
 MECHANICAL: 2006 IMC
 ELECTRICAL: 2005 NEC
 ACCESSIBILITY: 2006 IBC / ANSI 117.1

BUILDING INFORMATION:

CONSTRUCTION TYPE: II-B ONE STORY
 USE GROUP(S): BUSINESS (B)
 TOTAL EXISTING BLDG AREA: 9,842 SQFT EXISTING TO REMAIN

FIRE PROTECTION:

EXISTING FIRE PROTECTION TO REMAIN: REFERENCE FIRE PROTECTION SHEET FOR ADJUSTMENTS AS REQUIRED.

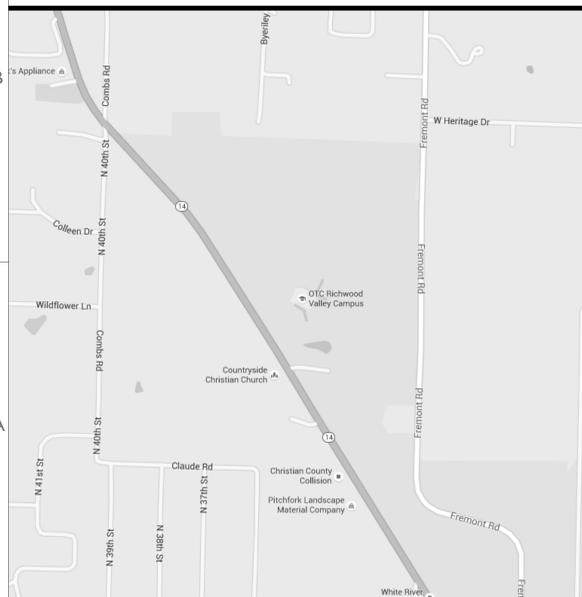
MEANS OF EGRESS:

GROSS BUILDING SQUARE FOOTAGE: 9,842 SQFT EXISTING TO REMAIN
 NET OCCUPIABLE SQUARE FOOTAGE FOR EMERGENCY USE: 6,937 SQFT
 OCCUPANCY (NON-EMERGENCY USE) EXISTING TO REMAIN: 327 TOTAL OCCUPANTS
 327 OCCUPANTS/EXIT * 0.20' = 16.5' PER EXIT REQUIRED. (72' PROVIDED AT EACH OF THE (4) EXITS).
 OCCUPANCY 5 SF PER PERSON (FEMA EMERGENCY USE) EXISTING TO REMAIN: 1,390 TOTAL EXISTING FEMA OCCUPANCY TO REMAIN.
 1,390 OCCUPANTS/EXIT * 0.20' = 69' PER EXIT REQUIRED. (72' PROVIDED AT EACH OF THE (4) EXITS).

FULL DRAWING LIST:

FULL DRAWING LIST				
SHEET NUMBER	SHEET NAME	#	DESCRIPTION	DATE
GENERAL				4/27/2016
A0.00	COVER SHEET			4/27/2016
ARCHITECTURAL				
A0.01	SYMBOLS AND ABBREVIATIONS			4/27/2016
A0.02	PARTITION TYPES			4/27/2016
A2.00	DIMENSION PLAN			4/27/2016
A2.01	NOTATION PLAN			4/27/2016
A2.02	LOBBY PLANS			4/27/2016
A3.00	REFLECTED CEILING PLAN			4/27/2016
A4.00	FINISH FLOOR PLAN & INTERIOR ELEVATIONS			4/27/2016
A6.00	SCHEDULES			4/27/2016
EQUIPMENT				
Q1.00	EQUIPMENT - FEMA FURNITURE PLAN			4/27/2016
SITE UTILITIES				
SU1.00	SITE UTILITIES PLAN			4/27/2016
MECHANICAL				
M1.00	MECHANICAL PLAN			4/27/2016
M1.01	MECHANICAL PLANS - ALTERNATES			4/27/2016
M2.00	HVAC SCHEDULES AND DETAILS			4/27/2016
M2.01	HVAC CONTROLS DIAGRAM			4/27/2016
PLUMBING				
P1.00	PLUMBING PLAN			4/27/2016
P2.00	PLUMBING SCHEDULES AND DETAILS			4/27/2016
FIRE PROTECTION				
FP1.00	FIRE PROTECTION PLAN			4/27/2016
ELECTRICAL				
E1.00	LIGHTING PLAN			4/27/2016
E2.00	POWER AND FIRE ALARM PLAN			4/27/2016
E2.01	ELECTRICAL PLANS - ALTERNATES			4/27/2016
E3.00	ELECTRICAL SCHEDULES AND DETAILS			4/27/2016

PROJECT LOCATION:



PROJECT DESIGN TEAM:

OWNER:

OZARK TECHNICAL COMMUNITY COLLEGE
 1001 EAST CHESTNUT EXPRESSWAY
 SPRINGFIELD, MISSOURI 65802

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STRUCTURAL:

N/A

GENERAL NOTES:

- BATES AND ASSOCIATES ARCHITECTS IS NOT RESPONSIBLE FOR FIELD ACTIVITIES ON THIS PROJECT WITHOUT DIRECT SUPERVISION OF WORK IN PROGRESS. IT IS NEITHER EXPRESSED OR IMPLIED THAT THE CONTRACTOR CAN CONSTRUCT THIS PROJECT WITHOUT THE ARCHITECT'S FIELD OBSERVATIONS. IF FIELD CONDITIONS ARE UNCOVERED THAT REQUIRE A CHANGE OR ADDITIONAL INFORMATION, THE ARCHITECT DOES NOT DELEGATE HIS AUTHORITY TO ANYONE ELSE FOR DETERMINING THE MEANING OF THESE PLANS OR SPECIFICATIONS.
- THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL SITE CONDITIONS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND MAKE CONNECTIONS THERETO PER LOCAL UTILITY COMPANY REQUIREMENTS.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, GOVERNMENTAL FEES, LICENSES AND INSPECTIONS.
- THE CONTRACTOR SHALL PROVIDE AND PAY FOR LABOR, MATERIALS, CONSTRUCTION EQUIPMENT AND MACHINERY, TOOLS, UTILITIES, TRANSPORTATION FOR THE ABOVE MENTIONED AND ANY OTHER FACILITIES OR SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
- THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS WITH THE INFORMATION FURNISHED BY THE OWNER AND IMMEDIATELY NOTIFY THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED.

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OTZARKS TECHNICAL COMMUNITY COLLEGE
 OTC RICHWOOD VALLEY CAMPUS
 FEMA SHELTER INFILL

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Ryan M. Faust - Architect
 A2011002762

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REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
 RELEASE DATE: 04/27/2016

COVER SHEET

A0.00

4/27/2016 11:48:33 AM
C:\Users\fr\Documents\15088_OTC FEMA Remodel_CENTRAL_R16_cbaoutelle106.rvt

- A** A.C.T. ACOUSTIC CEILING TILE
- A.D. AREA DRAIN
- A.F.F. ABOVE FINISH FLOOR
- AC. DR. ACCESS DOOR
- AC. PL. ACCESS PANEL
- ACCESS. ACCESSIBLE
- ADJ. ADJUSTABLE
- AGG. AGGREGATE
- ALT. ALTERNATE or ALTERNATIVE
- ALUM. ALUMINUM
- ANOD. ANODIZED
- APPROX. APPROXIMATE(LY)
- ARCH. ARCHITECTURAL/ARCHITECT
- ASPH. ASPHALT
- ATTN. ATTENTION
- B** B.F.F. BELOW FINISH FLOOR
- B.O. BOTTOM OF
- B.O.C. BOTTOM OF CONCRETE/CURB
- B.O.F. BOTTOM OF FOOTING
- B.U.R. BUILT UP ROOFING
- BD. BOARD
- BL. BUILDING LINE
- BLDG. BUILDING
- BLK. BLOCK
- BLKG. BLOCKING
- BM. BEAM
- BOTT. BOTTOM
- BR. BRICK
- BRG. BEARING
- C** C.B. CATCH BASIN(S)
- C.F. CUBIC FEET
- C.J. CONTROL JOINT
- C.M.P. CORRUGATED METAL PIPE
- C.M.U. CONCRETE MASONRY UNIT
- C.O. CLEAN OUT
- C.T. CERAMIC TILE
- C.T.B. CERAMIC TILE BASE
- C.Y. CUBIC YARD
- CAB.(S) CABINET(S)
- CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED
- CEM. CEMENT
- CL OR CENTERLINE
- CLG. CEILING
- CLO. CLOSET
- CLR. CLEAR
- COL. COLUMN
- CONC. CONCRETE
- CONF. CONFERENCE
- CONN. CONNECTION
- CONST. CONSTRUCTION
- CONT. CONTINUOUS (CONTINUED)
- CONTR. CONTRACTOR
- CPT. CARPET
- CPT.T. CARPET TILE
- CSK. COUNTERSINK (SUNK)
- D** D. DEEP OR DEPTH
- D.S. DOWNSPOUT
- D.T. DRAIN TILE
- DBL. DOUBLE
- DEG. DEGREE
- DET. DETAIL
- DIA. DIAMETER
- DIAG. DIAGONAL
- DIFF. DIFFUSER
- DIM. DIMENSION
- DISP. DISPENSER
- DN. DOWN
- DR. DOOR
- DWG.(S) DRAWING (S)
- DWL(S) DOWEL (S)
- DWR. DRAWER
- E** E.F. EACH FACE
- E.I.F.S. EXTERIOR INSULATION FINISH SYSTEM
- E.J. EXPANSION JOINT
- E.M. ENTRY MAT
- E.P. ELECTRICAL PANEL
- E.W. EACH WAY
- E.W.C. ELECTRIC WATER COOLER
- EA. EACH
- EL. ELEVATION
- ELEC. ELECTRIC (AL)
- ELEV. ELEVATOR
- ENCL. ENCLOSURE
- ENGR. ENGINEER
- EQ. EQUAL
- EQUIP. EQUIPMENT
- EXH. EXHAUST
- EXIST. EXISTING
- EXP. EXPANSION, EXPOSED
- EXP. AGG. EXPOSED AGGREGATE
- EXP. STR. EXPOSED STRUCTURE
- EXT. EXTERIOR

- F** F. & I. FURNISH & INSTALL
- F.A. FIRE ALARM
- F.A.WP. FLUID APPLIED WATERPROOFING
- F.D. FLOOR DRAIN
- F.E. FIRE EXTINGUISHER
- F.E.C. FIRE EXTINGUISHER CABINET
- F.H.C. FIRE HOSE CABINET
- F.O.C. FACE OF CONCRETE
- FAB. FABRIC
- FBGL. FIBERGLASS
- FIN. FINISH
- FIN. FLR. FINISH FLOOR
- FL. FLOW LINE
- FLASH. FLASHING
- FLR. FLOOR
- FLUOR. FLUORESCENT
- FND. FOUNDATION
- FP. FIRE PROTECTION
- FR. FRAME
- FRT. FIRE RETARDANT
- FT. FEET (FOOT)
- FTG. FOOTING
- FUR. FURRING
- FUT. FUTURE
- FWC. FABRIC WALL COVERING
- G** G.B. GRAB BAR
- G.C. GENERAL CONTRACTOR
- G.O. GLASS OPENING
- GA. GAUGE
- GAL. GALLON
- GALV. GALVANIZED
- GL. GLASS
- GND. GROUND
- GR. GRADE
- GT. GROUT
- GYP. BD. GYPSUM BOARD
- H** H. HIGH
- H.B. HOSE BIBB
- H.C. HOLLOW CORE
- H.M. HOLLOW METAL
- H.P. HIGH POINT
- H.V.A.C. HEATING, VENTILATING AND AIR CONDITIONING
- HD. HEAD
- HDPC. HANDICAP
- HDW. HARDWARE
- HDWD. HARDWOOD
- HORIZ. HORIZONTAL
- HR. HOUR
- HT. HEIGHT
- I** I.D. INSIDE DIAMETER
- IN. INCH
- INFO. INFORMATION
- INSUL. INSULATION
- INT. INTERIOR
- J** JAN. CLO. JANITOR CLOSET
- JST. JOIST
- JT. JOINT
- K** KIT KITCHEN
- L** L.F. LINEAR FEET
- L.L.H. LONG LEG HORIZONTAL
- L.L.V. LONG LEG VERTICAL
- L.P. LOW POINT
- LAM. LAMINATE (ED)
- LAV. LAVATORY
- LBR. LUMBER
- LIN. PNL. LINER PANEL
- LKR. LOCKER
- LOC. LOCATION
- LT. LIGHT
- M** M.B. MOP BASIN
- M.B.S. METAL BUILDING SUPPLIER
- M.D.F. MEDIUM DENSITY FIBERBOARD
- M.O. MASONRY OPENING
- M.P. MOVABLE PARTITION
- M.R.C.T. MOISTURE RESISTANT CEILING TILE
- MACH. MACHINE
- MAS. MASONRY
- MATL. MATERIAL
- MAX. MAXIMUM
- MECH. MECHANICAL
- MEMB. MEMBRANE
- MEZZ. MEZZANINE
- MFG. MANUFACTURING
- MFR. MANUFACTURE (ER) (ED)
- MH. MANHOLE
- MIN. MINIMUM
- MISC. MISCELLANEOUS
- MTD. MOUNTED
- MTL. METAL
- MTL. LAM. METAL LAMINATE
- MULL. MULLION

- N** N.I.C. NOT IN CONTRACT
- N.T.S. NOT TO SCALE
- NEG. NEGATIVE
- NO. or # NUMBER
- NOM. NOMINAL
- O** O.A. OVERALL
- O.C. ON CENTER
- O.D. OUTSIDE DIAMETER
- O.H. OPPOSITE HAND
- o/ OVER
- OFCI OWNER FURNISHED CONTRACTOR INSTALLED
- OFOI OWNER FURNISHED OWNER INSTALLED
- OFF. OFFICE
- OH. OVERHEAD
- OPNG. OPENING
- OPP. OPPOSITE
- OZ. OUNCE
- P** P.LAM. PLASTIC LAMINATE (ED)
- P.S.F. POUNDS PER SQUARE FOOT
- P.S.I. POUNDS PER SQUARE INCH
- P.T.D. PAPER TOWEL DISPENSER
- P.T.D.R. PAPER TOWEL DISPENSER/RECEPTACLE
- P.T.R. PAPER TOWEL RECEPTACLE
- P.V.C. POLYVINYLCHLORIDE
- PART. PARTICLE
- PARTN. PARTITION
- PC. PIECE
- PERIM. PERIMETER
- PL. PLATE
- PL. PLATE or PROPERTY LINE
- PLAS. PLASTER
- PLBG. PLUMBING
- PLYWD. PLYWOOD
- PNL. PANEL
- POL. POLISHED
- PORT. PORTABLE
- PR. PAIR
- PRCST. PRECAST
- PRCST. DK. PRECAST CONCRETE DECK
- PREFAB. PREFABRICATED
- PREFIN. PREFINISHED
- PROJ. PROJECTION
- PROP. PROPERTY
- PT. PAINT (ED)
- Q** Q.T. QUARRY TILE
- Q.T.B. QUARRY TILE BASE
- QTR. QUARTER
- R** R. RISER
- R.A. RETURN AIR
- R.B. RUBBER BASE
- R.C.P. REINFORCED CONCRETE PIPE
- R.D. ROOF DRAIN
- R.O. ROUGH OPENING
- R.R. RESTROOM
- R.T.U. ROOF TOP UNIT
- RAD. RADIUS
- RB.S.T. RUBBER STAIR TREAD
- RB.T. RUBBER TILE
- RE. REFER TO
- REF. REFERENCE
- REFR. REFRIGERATOR
- REINF. REINFORCE (ED) (ING)
- REQ'D. REQUIRED
- REV. REVISION or REVISED
- RM. ROOM
- RND. ROUND
- S** S. CONC. SEALED CONCRETE
- SSM. SOLID SURFACE MATERIAL
- S.A. SUPPLY AIR
- S.A.B. SOUND ATTENUATION BLANKETS
- S.C. SOLID CORE
- S.D. SMOKE DETECTOR
- S.D.T. STATIC DISSIPATIVE TILE
- S.F./SQ. FT. SQUARE FEET
- S.N.D. SANITARY NAPKIN DISPENSER
- S.N.R. SANITARY NAPKIN RECEPTACLE
- S.P.M.R. SINGLE-PLY MEMBRANE ROOF(ING)
- S.R.T. SLIP RETARDANT TILE
- S.S. SERVICE SINK
- S.T.C. SOUND TRANSMISSION COEFFICIENT
- S.V. SHEET VINYL
- S/V STAIN & VARNISH
- SAN. SANITARY
- SCHED. SCHEDULE
- SECT. SECTION
- SH. SHELF
- SHR. SHOWER
- SHT. SHEET
- SIM. SIMILAR TO
- SL. STRUCTURE LINE
- SP.D. SOAP DISPENSER
- SPAN. SPANDREL
- SPEC. SPECIFICATION(S)
- SQ. SQUARE
- ST. STL. STAINLESS STEEL
- STD. STANDARD
- STL. STEEL
- STOR. STORAGE
- STRUCT. STRUCTURE or STRUCTURAL
- SUSP. SUSPENDED
- SYM. SYMMETRICAL

- T** T. TREAD
- T. & B. TOP & BOTTOM
- T. & G. TONGUE & GROOVE
- T.C.S.S. TERNE COATED STAINLESS STEEL
- T.O. TOP OF
- T.O.C. TOP OF CONCRETE/CURB
- T.O.M. TOP OF MASONRY
- T.O.P. TOP OF PANEL/PAVING
- T.O.S. TOP OF STEEL
- T.O.W. TOP OF WALL
- T.P. TOILET PARTITION
- T.S. TRANSITION STRIPS
- T.T.D. TOILET TISSUE DISPENSER
- TELE. TELEPHONE
- TEMP. TEMPERED
- TERR. TERRAZZO
- THK. THICK
- THRU THROUGH
- TRANS. TRANSFORMER
- TV TELEVISION
- TYP. TYPICAL
- U** U.L. UNDERWRITERS LABORATORY
- U.REFR. UNDERCOUNTER REFRIGERATOR
- U.S.D. UNDERSIDE OF DECK
- UN.O. UNLESS NOTED OTHERWISE
- UNFIN. UNFINISHED
- UR. URINAL
- UTIL. UTILITIES
- V** V. VINYL
- V.B. VINYL BASE
- V.C.T. VINYL COMPOSITION TILE
- V.C.T.S.R. VINYL COMPOSITION TILE SLIP
- V.S.R. VINYL STAIR RISERS
- V.S.T. VINYL STAIR TREADS
- V.T. VINYL TILE
- V.T.S. VINYL TRANSITION STRIPS
- V.W.C. VINYL WALL COVERING
- VENT. VENTILATOR
- VERT. VERTICAL
- VEST. VESTIBULE
- W** W. WIDE or WIDTH
- W.C. WATER CLOSET
- W.GL. WIRE GLASS
- W.H. WATER HEATER
- W.P. WORKING POINT
- W.W.F. WELDED WIRE FABRIC
- w/(o) WITH/(OUT)
- WD. WOOD
- WIN. WINDOW
- WSCOT. WAINSCOT
- WT. WEIGHT
- Y** Y.D. YARD DRAIN
- Y.H. YARD HYDRANT
- YD. YARD

- EXISTING WALL
- EXISTING WALL - TO BE REMOVED (OR GENERAL DEMOLITION WORK)
- NEW DOOR & FRAME
- EXISTING DOOR & FRAME
- FLOOR DRAIN
- DOWNSPOUT
- AUTOMATIC EXTERNAL DEFIBRILLATOR
- RECESSED FIRE EXTINGUISHER CABINET
- CORNER GUARDS

ARCHITECTURAL SYMBOLS
1/4" = 1'-0"

- Room name**
101
150 SF
- ROOM NUMBER & NAME**
- ELEVATION REFERENCE**
(EXTERIOR AND INTERIOR)
- REFERENCE NUMBER OF DRAWING**
SHEET WHERE DETAIL IS DRAWN
- BUILDING SECTION REFERENCE**
- WALL SECTION REFERENCE**
- DETAIL / CALLOUT REFERENCE**
- REFERENCE NUMBER OF DRAWING**
SHEET WHERE DETAIL IS DRAWN
- AREA DETAIL REFERENCES**
- EXISTING COLUMN TAG AND CENTER LINE**
- NEW COLUMN TAG AND CENTER LINE**
- DRAWING TITLE TAG**
- DRAWING TITLE**
- PLAN NAME**
1/8" = 1'-0"
- DRAWING SCALE**
- DETAIL NUMBER AND SHEET NUMBER OF DRAWING**

- A3-02A - A3-02A**
Match line Match line
- MATCH LINE REFERENCE**
- PARTITION TYPE TAG**
- PARTITION TYPE**
- PARTITION HEAD CONDITION**
- DEMO PLAN KEYED NOTE** ALSO DENOTED BY "D1-D199" SERIES NUMBERS
- FLOOR PLAN, RCP, ELEVATION & SECTION KEYED NOTES** ALSO DENOTED BY "01-499" SERIES NUMBERS
- DRAWING REVISION, BULLETIN**
- FLOOR MATERIAL REFERENCE**
- FURNITURE, FIXTURES, EQUIPMENT TAG**
- WINDOW AND CURTAIN WALL TAG**
- TOILET ACCESSORY KEY**
- DOOR TAG**
- CASEWORK TAG**
- SIGNAGE TAG**
- SIGNAGE TAG - CODE REQ'D**
- DATUM TARGET**
- NORTH ARROW**

- ALUMINUM
- BATT INSULATION
- BRICK
- CAST SONE
- CONCRETE (CAST IN PLACE)
- CONCRETE (PRECAST)
- CONCRETE MASONRY UNIT
- EARTH
- GRAVEL
- GROUT
- PLYWOOD
- SAND
- STEEL
- WOOD (FINISH)
- WOOD (ROUGH LUMBER)
- WOOD (BLOCKING)
- RIGID INSULATION

MATERIALS LEGEND
N.T.S.

STANDARD LIST OF ABBREVIATIONS
12" = 1'-0"

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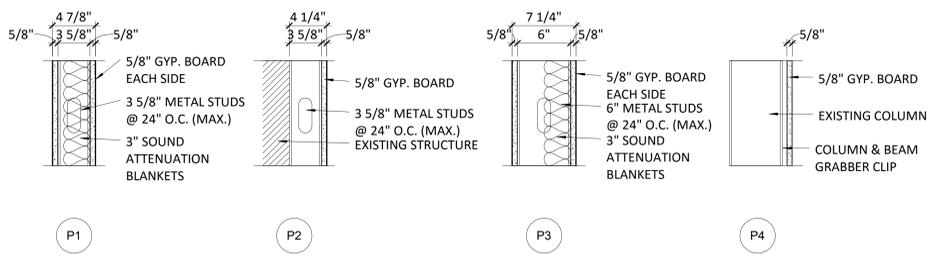
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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

SYMBOLS AND ABBREVIATIONS
A0.01

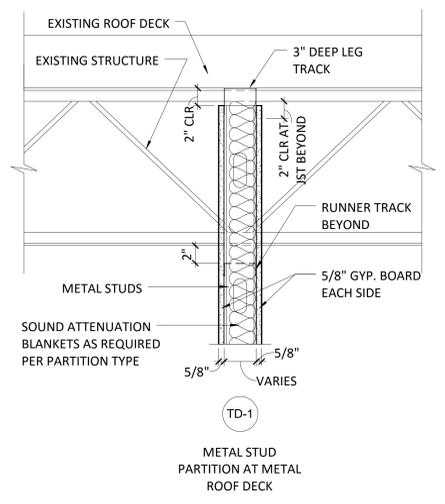


PARTITION TYPES

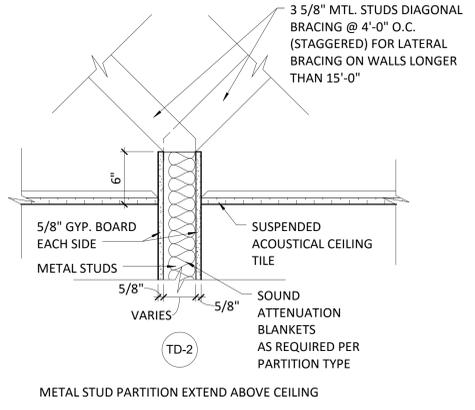
LIGHT GAUGE METAL STUD LIMITING HEIGHTS

WIDTH	MAX. UNSUPPORTED HEIGHT	GAUGE	SPACING
3 5/8"	13'-7"	26 GA.	24" O.C.
3 5/8"	15'-6"	26 GA.	16" O.C.
3 5/8"	17'-1"	26 GA.	12" O.C.
3 5/8"	14'-8"	20 GA.	24" O.C.
3 5/8"	16'-9"	20 GA.	16" O.C.
3 5/8"	18'-5"	20 GA.	12" O.C.
3 5/8"	19'-2"	25 GA.	24" O.C.
6"	21'-11"	25 GA.	16" O.C.
6"	24'-2"	25 GA.	12" O.C.
6"	21'-0"	20 GA.	24" O.C.
6"	24'-0"	20 GA.	16" O.C.
6"	26'-5"	20 GA.	12" O.C.

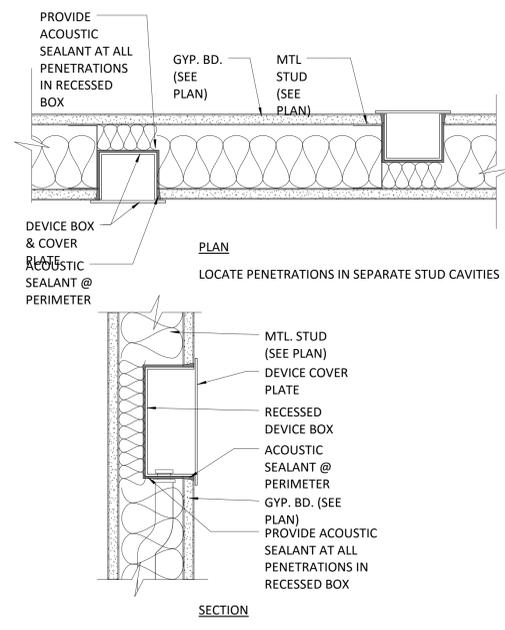
NOTE:
1. METAL STUD LENGTHS PER DIETRICH PROSTUDS BASED ON 5/8" GYP. BOARD FULL HEIGHT EACH SIDE OF STUD, 5 PSF, L240



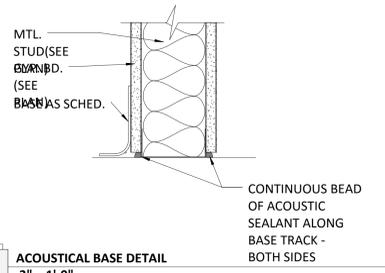
C7 TERMINATION DETAIL - TD-1
1 1/2" = 1'-0"



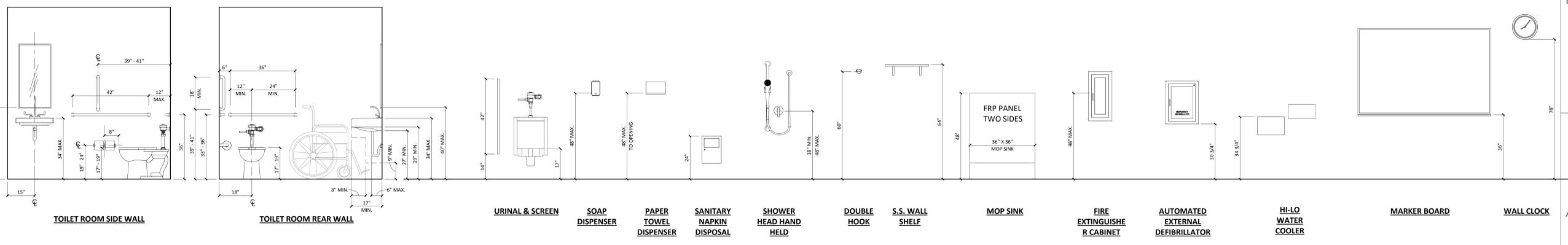
C6 TERMINATION DETAIL - TD-2
1 1/2" = 1'-0"



C4 ACOUSTIC PARTITION PENETRATIONS
3" = 1'-0"



C2 ACOUSTICAL BASE DETAIL
3" = 1'-0"



LEGEND - TYP. MOUNTING HEIGHTS
1/2" = 1'-0"

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STATE OF MISSOURI
RYAN M. FAUST
ARCHITECT
A-2011002762
12-27-16

Ryan M. Faust - Architect
A2011002762

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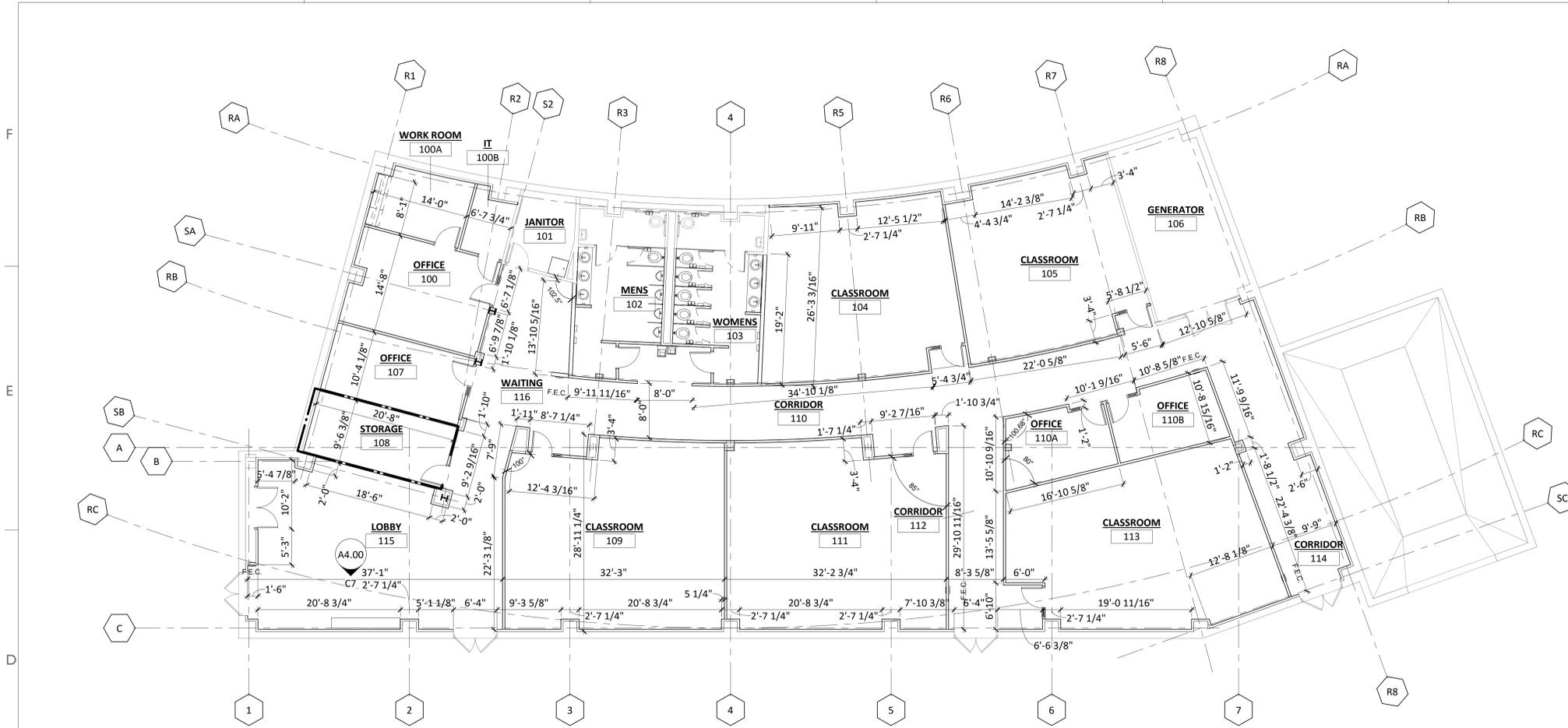
REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

PARTITION TYPES

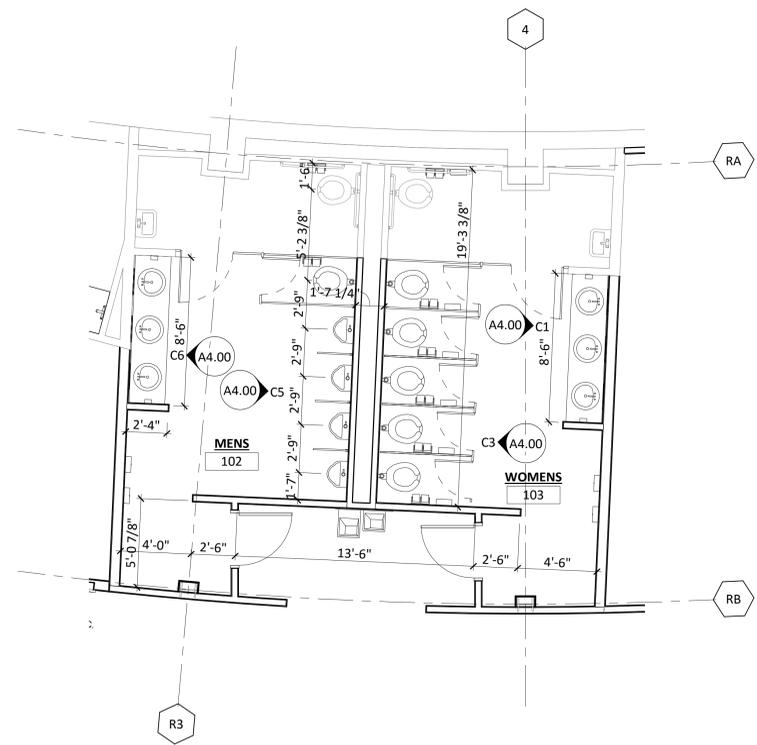
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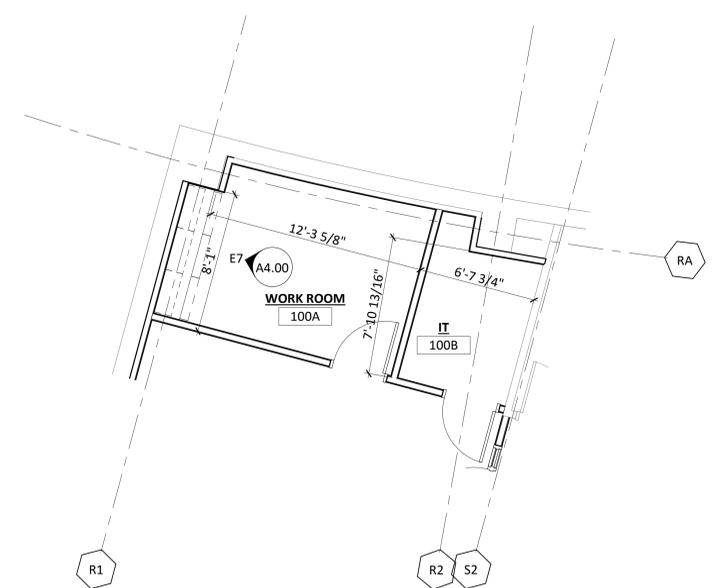
C7 DIMENSION FLOOR PLAN
 A2.00 1/8" = 1'-0"

PLAN GENERAL NOTES
 3" = 1'-0"

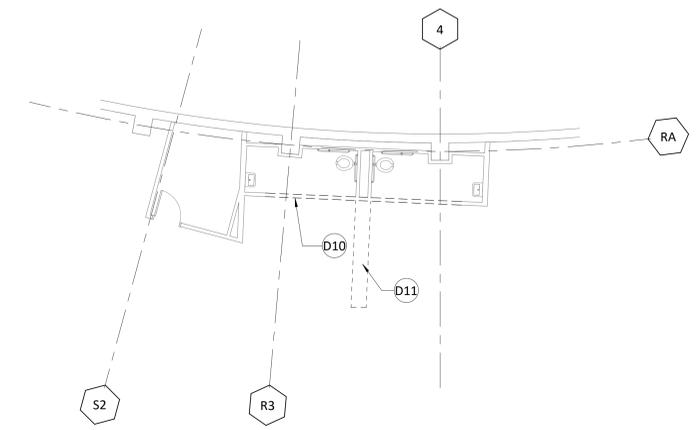
1. REFERENCE DETAILS ON SHEET A0.02 FOR ALL INTERIOR PARTITIONS. PENETRATIONS INTO ALL PARTITIONS SHALL APPLY TO THESE DETAILS.
2. ALL DIMENSIONS TO EXISTING WALLS AND EQUIPMENT/MILLWORK IS TO THE FINISH FACE. ANY DIMENSIONS SHOWN TO NEW WALLS ARE TO THE FRAMING.
3. REFERENCE DETAILS ON SHEET A0.02 FOR ADA STANDARDS.
4. STORAGE ROOM 108 IS 1-HR FIRE RATED. PROVIDE 5/8" TYPE "X" GYPSUM ON ALL WALLS AND FIRE CAULK ANY PENETRATIONS.



A7 ENLARGED RESTROOM PLAN
 A2.00 1/4" = 1'-0"



A5 ENLARGED WORK ROOM PLAN
 A2.00 1/4" = 1'-0"



B3 DEMOLITION FLOOR PLAN
 A2.00 1/8" = 1'-0"

KEYNOTES - DEMOLITION	
NO.	DESCRIPTION
D1	REMOVE EXISTING MODULAR WALLS AND RETURN TO OWNER.
D2	REMOVE EXISTING CASEWORK. PATCH AND REPAIR WALL AS REQUIRED. REPAINT TO MATCH EXISTING PAINT COLOR AS NEEDED.
D3	REMOVE EXISTING DOOR.
D4	REMOVE EXISTING WALL (PREP FOR NEW WINDOW WHERE APPLICABLE).
D5	REMOVE EXISTING SECURITY GATE AND ALL HARDWARE, PATCH WALL AS REQUIRED.
D6	EXISTING MODULAR FURNITURE TO BE MODIFIED BY OWNER.
D7	REMOVE EXISTING CARPET.
D8	REMOVE EXISTING KIOSKS.
D9	REMOVE EXISTING CEILING TILES AND GRID.
D10	REMOVE EXISTING WALL AND DOOR. DOORS TO BE REUSED PER DOOR SCHEDULE. COORDINATE EXTENSION AND REPLACEMENT OF ALL MEP ITEMS WITH MEP DRAWINGS.
D11	COORDINATE EXTENT OF EXISING CONCRETE SLAB DEMOLITION WITH REQUIRED UNDERGROUND PLUMBING.
D12	REMOVE EXISTING CEILING AND PATCH WALLS AS NEEDED.



Ryan M. Faust - Architect
 A2011002762

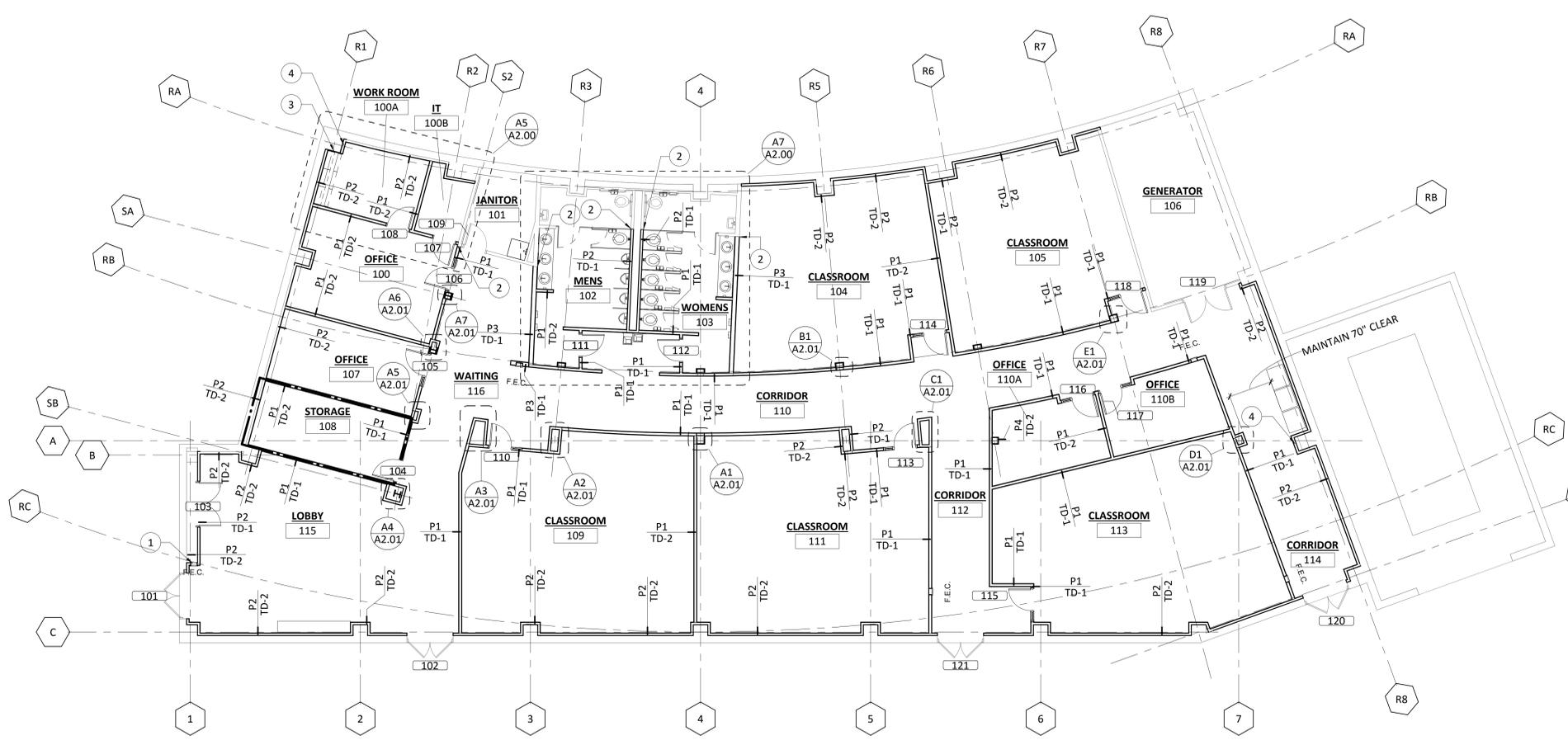
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PROJECT NUMBER: 15088
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DIMENSION PLAN

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 D
 C
 B
 A
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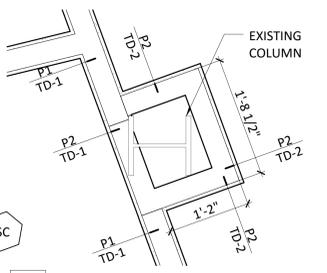
D7
 A2.01
NOTATION FLOOR PLAN
 1/8" = 1'-0"

PLAN GENERAL NOTES
 3" = 1'-0"

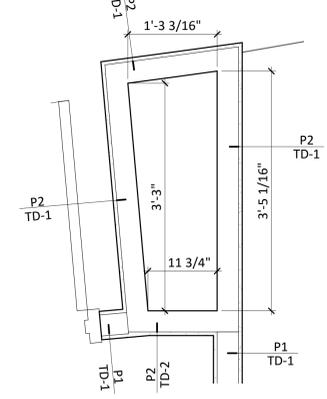
KEYNOTES - FLOOR PLAN	
NO.	DESCRIPTION
1	COORDINATE LOCATION OF WALL WITH EXISTING ROOF DRAIN PIPING AND FDC PIPING, REFERENCE FIRE PROTECTION SHEET FOR FDC DETAILS.
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6	ALIGN WALL WITH EXISTING STOREFRONT MULLION. PROVIDE APPROPRIATE MULLION MATE FROM GORDON INTERIOR SPECIALTIES DIVISION, PAINTED TO MATCH EXISTING CURTAIN WALL OR STOREFRONT FRAMING. IF WALL IS NOT GOING TO ALIGN WITH EXISTING MULLION CONTACT ARCHITECT FOR RESOLUTION. FOR WALLS NOT ALIGNING A JOG MAY BE REQUIRED TO MAKE THE WALL LINE UP AS NEEDED.

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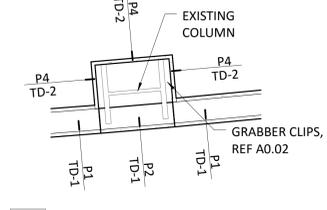
E1
 A2.01
ENLARGED COLUMN DETAIL
 1" = 1'-0"



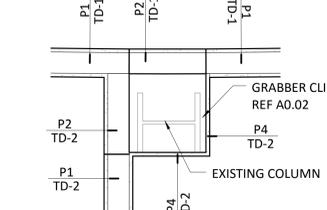
D1
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ENLARGED COLUMN DETAIL
 1" = 1'-0"



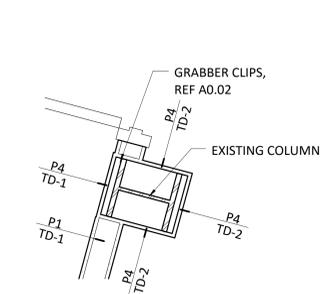
C1
 A2.01
ENLARGED PLAN DETAIL
 1" = 1'-0"



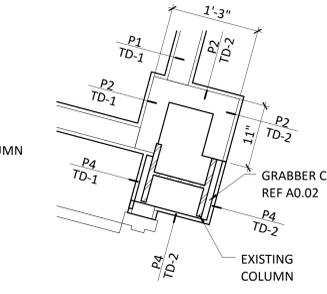
B1
 A2.01
ENLARGED COLUMN DETAIL
 1" = 1'-0"



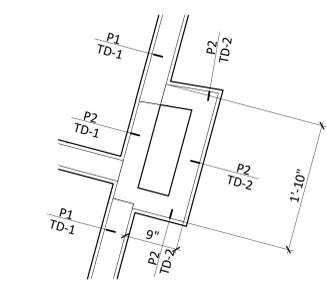
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ENLARGED COLUMN DETAIL
 1" = 1'-0"



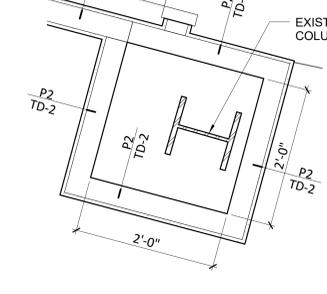
A6
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ENLARGED COLUMN DETAIL
 1" = 1'-0"



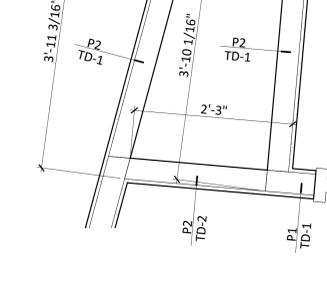
A5
 A2.01
ENLARGED PLAN DETAIL
 1" = 1'-0"



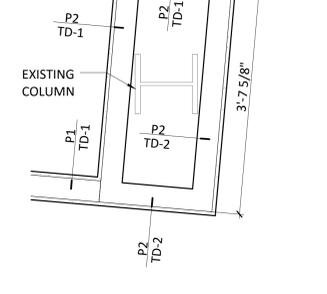
A4
 A2.01
ENLARGED COLUMN DETAIL
 1" = 1'-0"



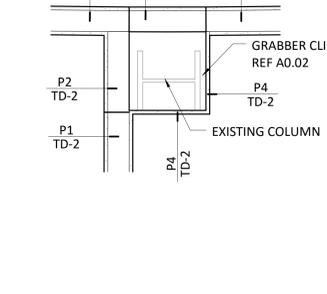
A3
 A2.01
ENLARGED PLAN DETAIL
 1" = 1'-0"



A2
 A2.01
ENLARGED COLUMN DETAIL
 1" = 1'-0"



A1
 A2.01
ENLARGED COLUMN DETAIL
 1" = 1'-0"



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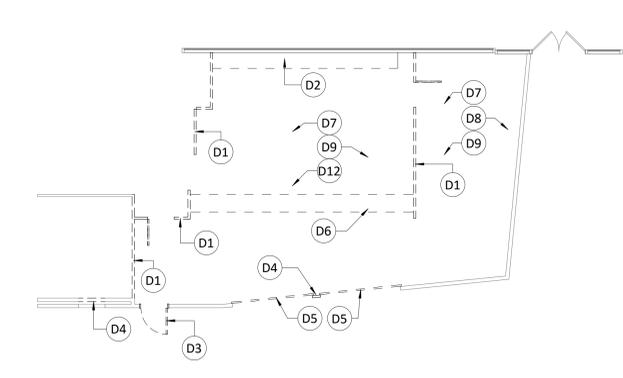
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
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NOTATION PLAN

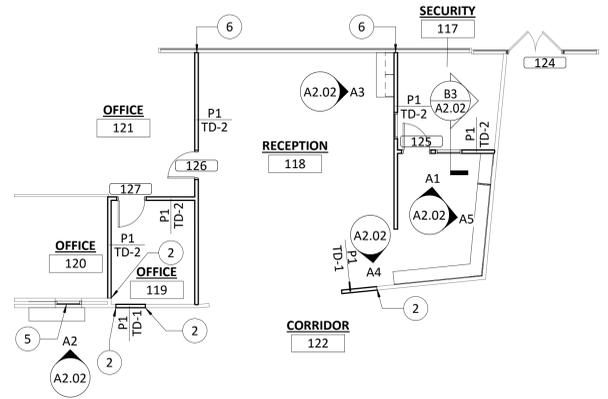
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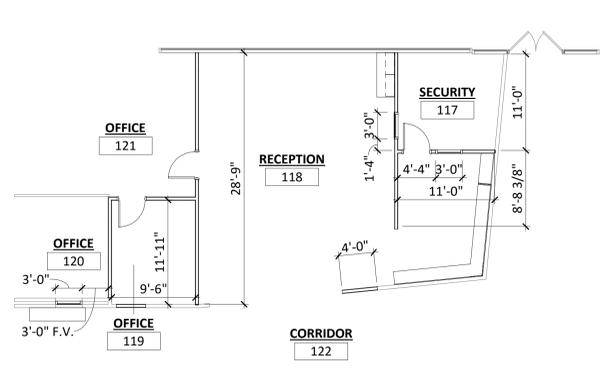
E7 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

KEYNOTES - DEMOLITION	
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D12	REMOVE EXISTING CEILING AND PATCH WALLS AS NEEDED.

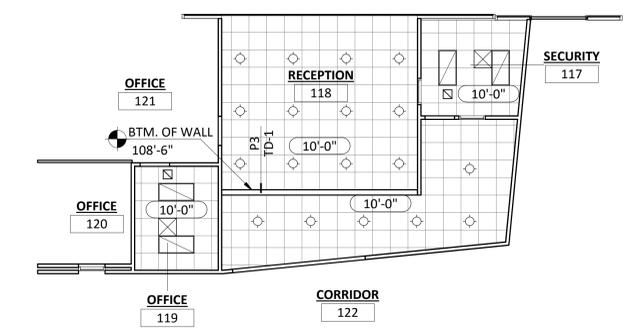


E5 OVERALL LOBBY NOTATION PLAN
1/8" = 1'-0"

KEYNOTES - FLOOR PLAN	
NO.	DESCRIPTION
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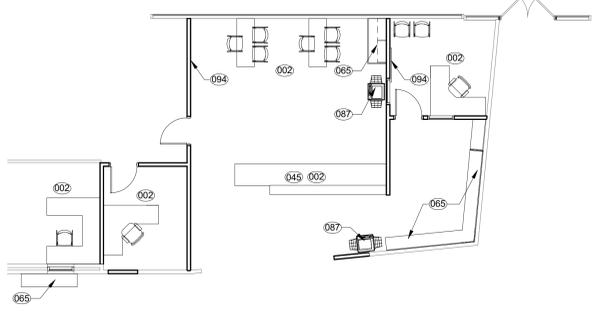
E3 DIMENSION FLOOR PLAN
1/8" = 1'-0"



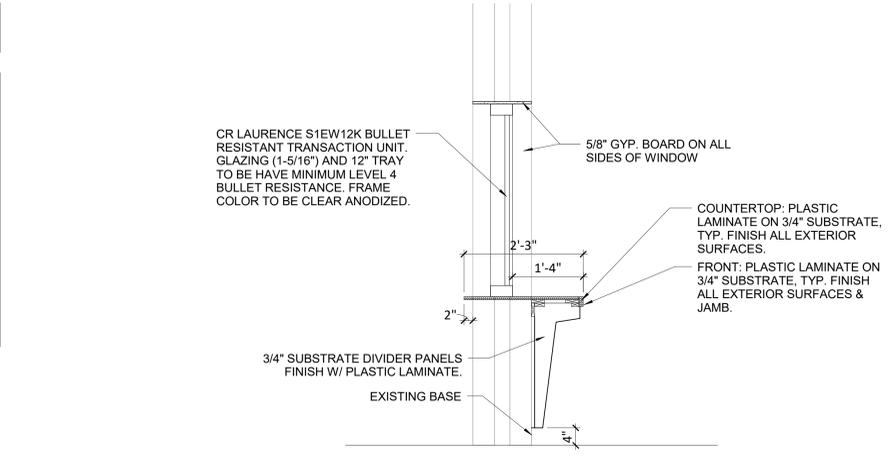
B7 LOBBY REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN NOTE
3" = 1'-0"

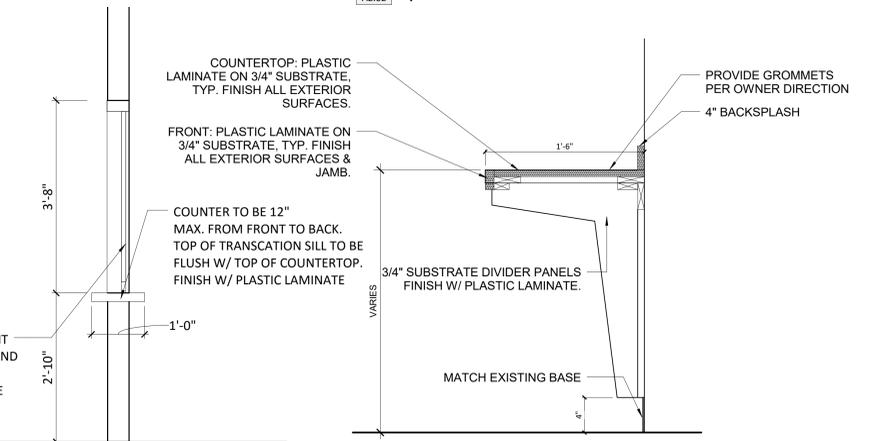
- LIGHT FIXTURES SHOWN ARE FOR REFERENCE ONLY. SEE ELECTRICAL SPECIFICATIONS FOR FOOT CANDLE LEVELS REQUIRED AND ADJUST QUANTITY ACCORDINGLY.
- ON ALL WALLS WITH TERMINATION TD-2 (SHOWN WITH CROSS HATCH ABOVE) APPLY 4" ACOUSTICAL BATT INSULATION ABOVE CEILING/SOFFIT 4'-0" WIDE. DO NOT INSTALL INSULATION ABOVE LIGHT FIXTURES. REFERENCE A0.02
- SUBCONTRACTORS SHALL COORDINATE LOCATIONS OF LIGHT FIXTURES, MECHANICAL GRILLES, SPRINKLER HEADS, ETC.
- SEE MEPPF ENGINEER DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN.



B5 EQUIPMENT FURNITURE PLAN
1/8" = 1'-0"

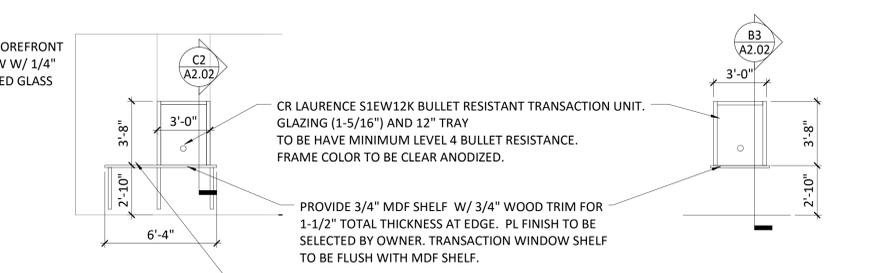


C2 TRANSACTION WINDOW-OFFICE 120
3/4" = 1'-0"



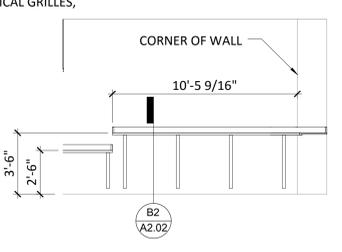
B2 SECTION @ CASEWORK SUPPORT (TYP)
1 1/2" = 1'-0"

B3 TRANSACTION WINDOW-SECURITY
3/4" = 1'-0"

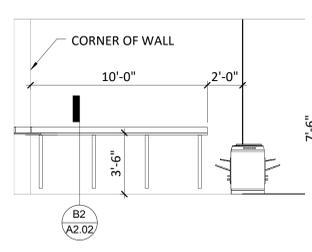


A2 TRANSACTION WINDOW-OFFICE 120
1/4" = 1'-0"

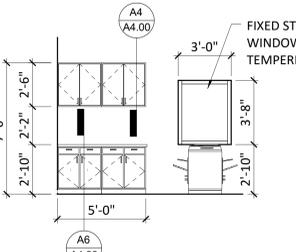
A1 TRANSACTION WINDOW-SECURITY
1/4" = 1'-0"



A5 INTERIOR ELEVATION
1/4" = 1'-0"



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



A3 INTERIOR ELEVATION
1/4" = 1'-0"

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Professional seal and signature of Ryan M. Faust, Architect, Missouri License A-2011002762.

Ryan M. Faust - Architect
A2011002762

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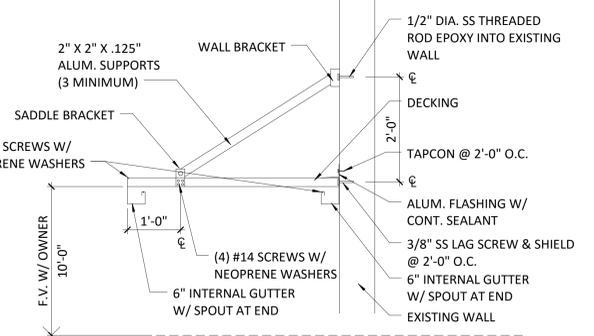
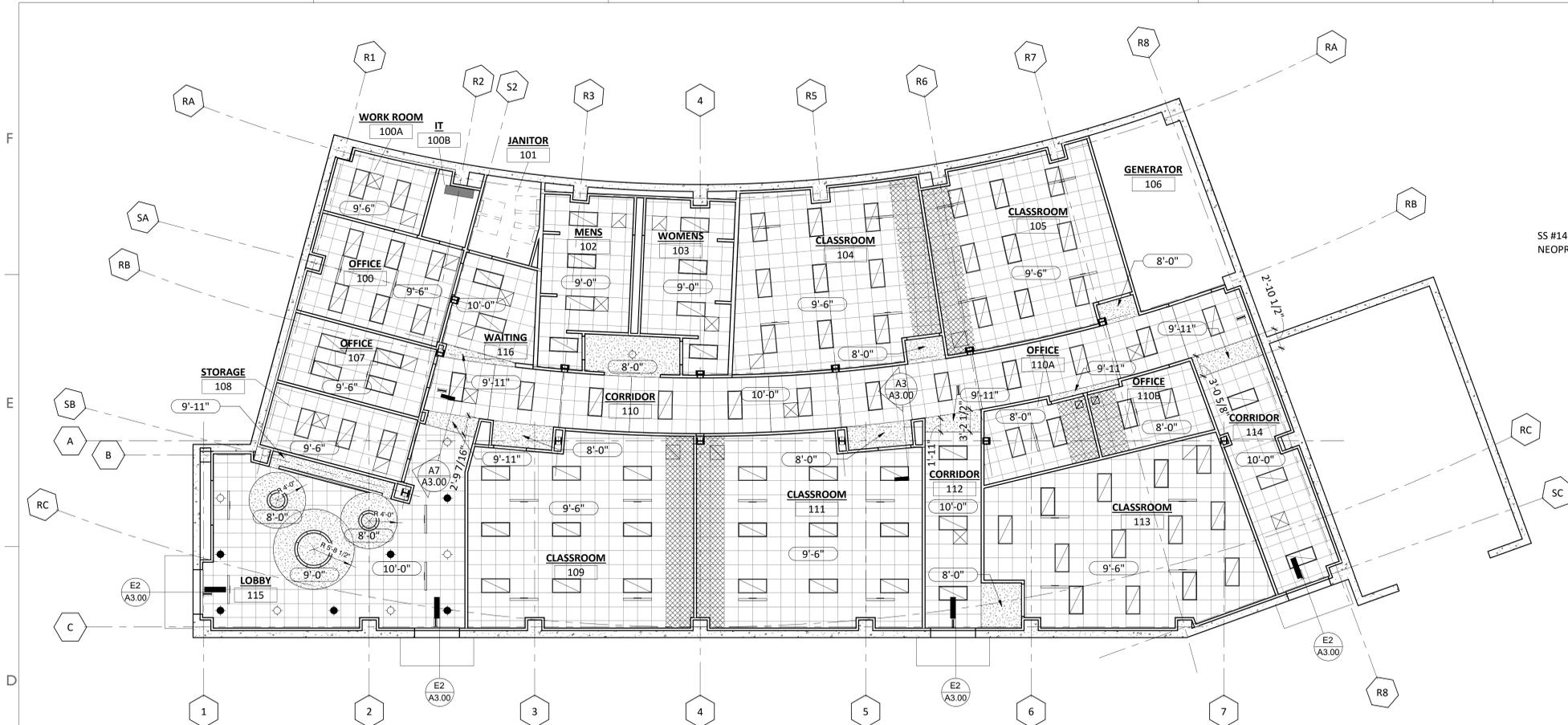
REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

LOBBY PLANS

A2.02

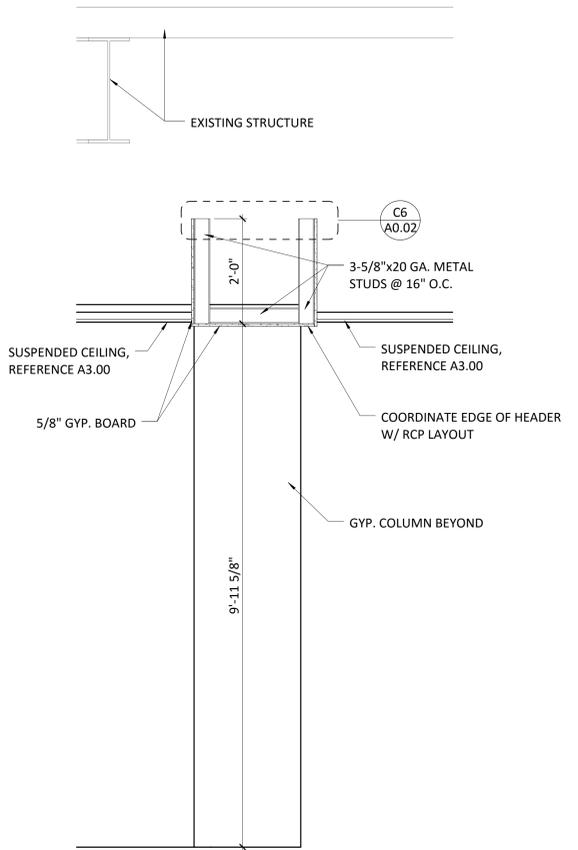
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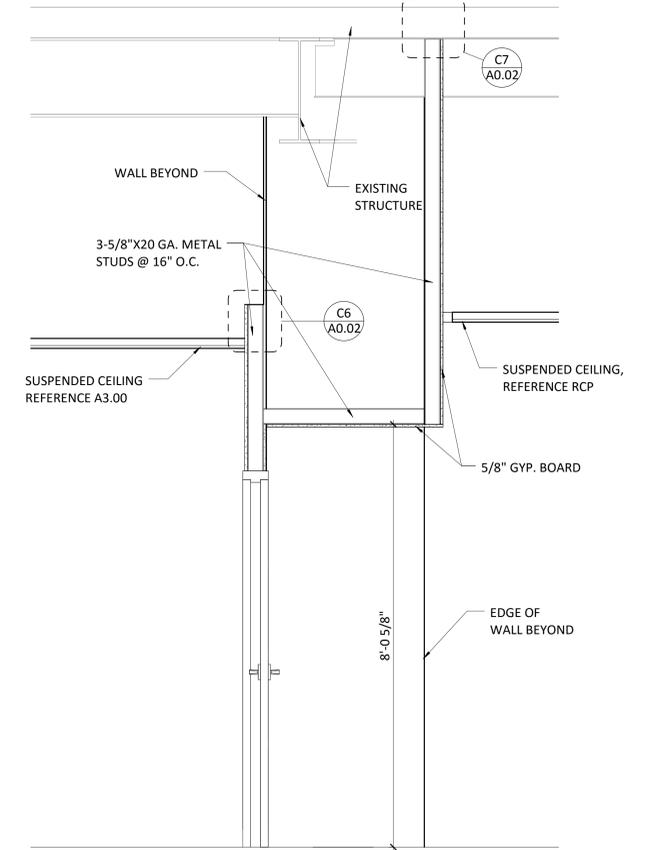
D7
A3.00
FEMA REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN NOTE
3" = 1'-0"

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4. SEE MEPPF ENGINEER DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN.



A7
A3.00
CEILING DETAIL
3/4" = 1'-0"



A3
A3.00
CEILING DETAIL
3/4" = 1'-0"

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Ryan M. Faust - Architect
A2011002762

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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

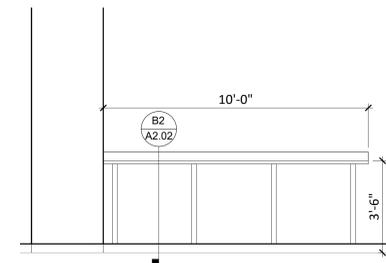
REFLECTED CEILING PLAN

A3.00

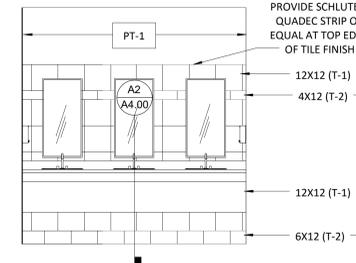
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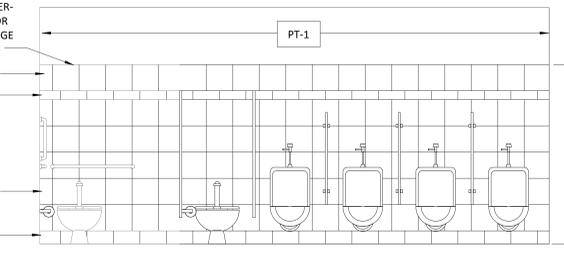
1 FINISH FLOOR PLAN
 A4.00 1/8" = 1'-0"



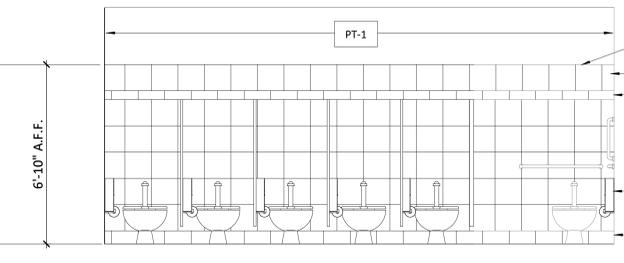
C7 LOBBY CASEWORK
 A4.00 3/8" = 1'-0"



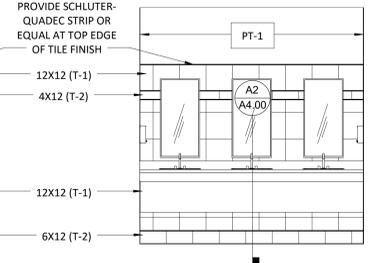
C6 MENS SINKS
 A4.00 3/8" = 1'-0"



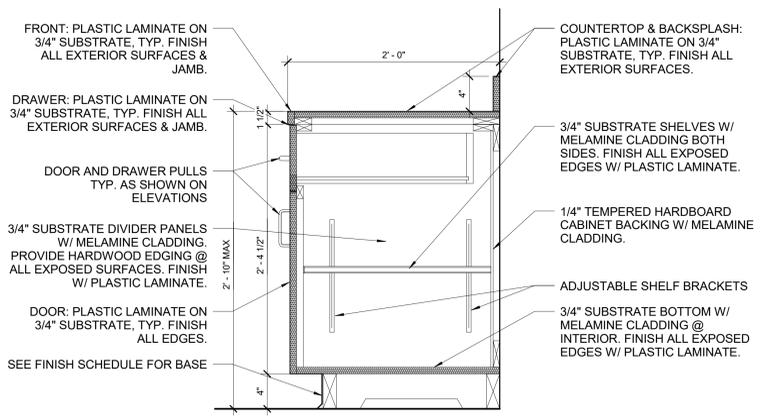
C5 MENS RR WATER CLOSETS
 A4.00 3/8" = 1'-0"



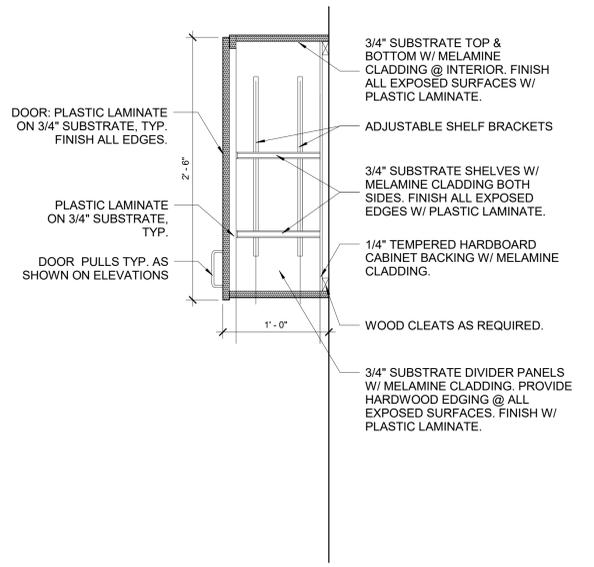
C3 WOMENS RR WATER CLOSETS
 A4.00 3/8" = 1'-0"



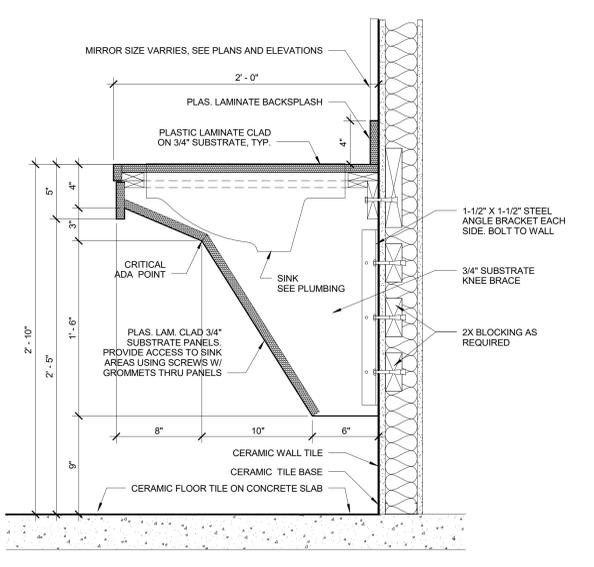
C1 WOMENS SINKS
 A4.00 3/8" = 1'-0"



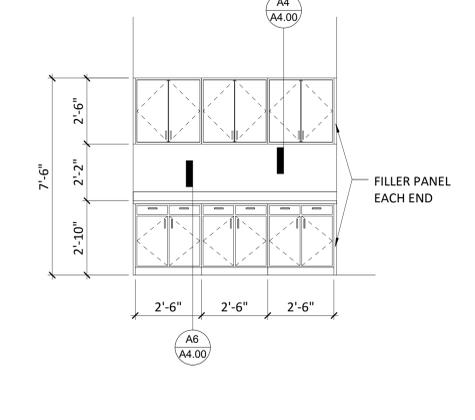
A6 SECTION @ BASE CABINET
 A4.00 1 1/2" = 1'-0"



A4 SECTION @ UPPER CABINET
 A4.00 1 1/2" = 1'-0"



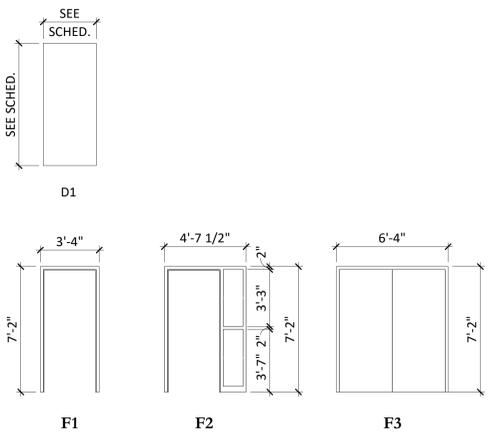
A2 DETAIL @ ADA LAVATORY
 A4.00 1 1/2" = 1'-0"



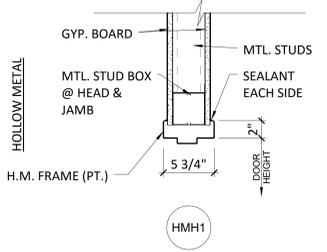
E7 WORK ROOM CASEWORK
 A4.00 3/8" = 1'-0"

NO.	DATE	DESCRIPTION

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LEGEND - DOOR & FRAME TYPES

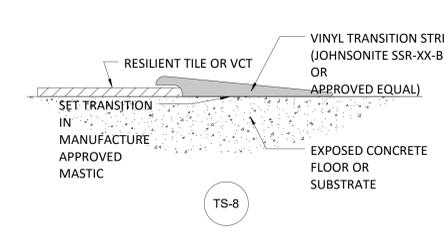
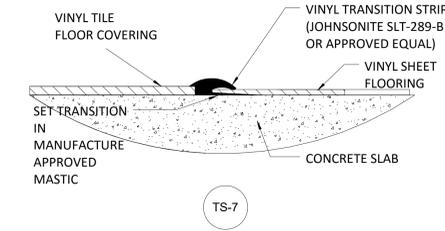
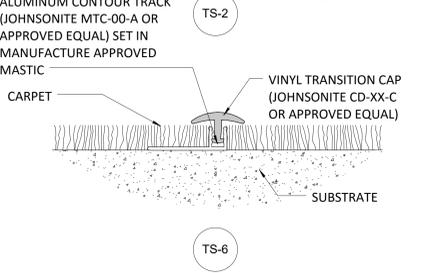
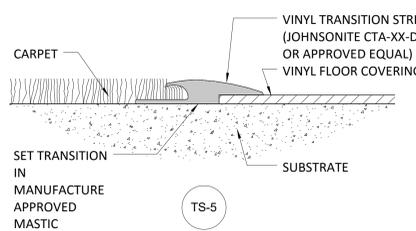
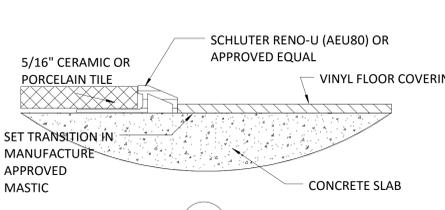
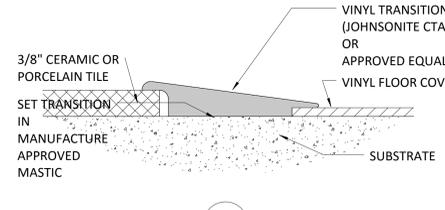
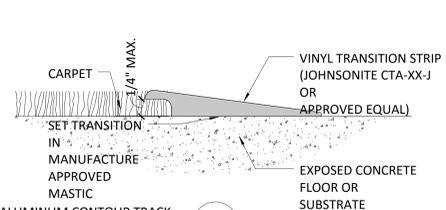
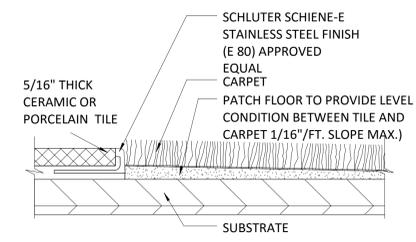


1 DOOR HEAD/JAMB/SILL
1 1/2" = 1'-0"

NO.	LEAF QNTY	SIZE			LEAF			FRAME			FIRE RATING	HEAD	REMARKS
		WIDTH	HEIGHT	THICKNESS	ELEVATION	FINISH	GLAZING	ELEVATION	MATERIAL	FINISH			
101	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	EXISTING	EXISTING	P-1	NONE	NONE	PAINT EXISTING DOOR AND FRAME
102	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	EXISTING	EXISTING	P-1	NONE	NONE	PAINT EXISTING DOOR AND FRAME
103	2	6'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F3	HOLLOW METAL	P-1	NONE	NONE	
104	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F1	HOLLOW METAL	P-1	NONE	45 MIN. RATED	HMH1
105	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
106	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
107	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	HMH1
108	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	HMH1
109	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	EXISTING	EXISTING	P-1	NONE	NONE	PAINT EXISTING DOOR AND FRAME
110	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
111	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	RELOCATE EXISTING DOOR & HARDWARE FROM EXISTING LOCATION, EXISTING FRAME NOT TO BE REUSED.
112	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	RELOCATE EXISTING DOOR & HARDWARE FROM EXISTING LOCATION, EXISTING FRAME NOT TO BE REUSED.
113	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
114	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
115	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
116	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
117	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
118	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F2	HOLLOW METAL	P-1	1/4" TEMPERED	NONE	HMH1
119	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	EXISTING	EXISTING	P-1	NONE	NONE	PAINT EXISTING DOOR AND FRAME
120	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	EXISTING	EXISTING	P-1	NONE	NONE	PAINT EXISTING DOOR AND FRAME
121	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	NONE	EXISTING	EXISTING	P-1	NONE	NONE	PAINT EXISTING DOOR AND FRAME
124	EXISTING	3'-0"	7'-0"	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ALUMINUM	EXISTING	EXISTING	NONE	EXISTING DOOR IS ALUMINUM EXTERIOR DOOR.
125	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	HMH1
126	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	HMH1
127	1	3'-0"	7'-0"	1-3/4"	D1	ST-1	NONE	F1	HOLLOW METAL	P-1	NONE	NONE	HMH1

DENOTATION	MANUFACTURER	STYLE	NUMBER	SIZE	COLOR	REMARKS
ACT-1	ARMSTRONG	FINE FISSURED	1719	24X24	WHITE	
ACT-2	ARMSTRONG	UNPERFORATED	673	24X24	WHITE	
CPT-1	J&J INVISION	KINETEX	TBD	24X24	TBD	
CT-1	DAL-TILE	VERANDA	TBD	20X20	TBD	
PLAM-1	TBD	TBD	TBD	-	TBD	
PLAM-2	TBD	TBD	TBD	-	TBD	
PT-1	SHERWIN WILLIAMS		SW6001	-	GRAYISH	
PT-2	SHERWIN WILLIAMS		SW7664	-	STEELY GRAY	
PT-3	SHERWIN WILLIAMS		SW6713	-	VERDANT	DONOR WALL COLOR
T-1	DAL-TILE	CONTINENTAL SLATE	CS57	12X12	ENGLISH GRAY	
T-2	DAL-TILE	CONTINENTAL SLATE	CS53	VARIABLE	ASIAN BLACK	

NO.	ROOM NAME	FLOOR MAT'L	BASE FINISH	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH	WEST WALL FINISH	REMARKS
100	OFFICE	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
100A	WORK ROOM	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
100B	IT	SC-1	VWB-1	PT-1	PT-1	PT-1	PT-1	APPLY 3/4" PLYWOOD TO STUDS IN LIEU OF GYPSUM BOARD ON ALL WALLS
101	JANITOR	E.T.R.	E.T.R.	PT-1	PT-1	PT-1	PT-1	
102	MENS	T-1	T-1	T-2 / PT-1	T-2 / PT-1	T-2 / PT-1	T-2 / PT-1	
103	WOMENS	T-1	T-1	T-2 / PT-1	T-2 / PT-1	T-2 / PT-1	T-2 / PT-1	
104	CLASSROOM	CPT-1	VWB-1	PT-1	PT-1	PT-2	PT-1	
105	CLASSROOM	CPT-1	VWB-1	PT-1	PT-1	PT-2	PT-1	
106	GENERATOR	E.T.R.	E.T.R.	PT-1	PT-1	PT-1	PT-1	
107	OFFICE	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
108	STORAGE	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
109	CLASSROOM	CPT-1	VWB-1	PT-2	PT-1	PT-1	PT-1	
110	CORRIDOR	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
110A	OFFICE	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
110B	OFFICE	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
111	CLASSROOM	CPT-1	VWB-1	PT-2	PT-1	PT-1	PT-1	
112	CORRIDOR	CPT-1/CT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
113	CLASSROOM	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-2	
114	CORRIDOR	CPT-1/CT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
115	LOBBY	CPT-1/CT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	DONOR WALL TO BE PAINTED PT-3
116	WAITING	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
117	SECURITY	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
118	RECEPTION	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	PROVIDE CPT-1 TO ENTRYWAY TO CORRIDOR, PROVIDE TRANSITION STRIP AS NECESSARY BETWEEN EXISTING CARPET AND CPT-1
119	OFFICE	CPT-1	VWB-1	PT-1	PT-1	PT-1	PT-1	
120	OFFICE	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	
121	OFFICE	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	
122	CORRIDOR	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	E.T.R.	



2 FLOORING TRANSITIONS
12" = 1'-0"

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Ryan M. Faust - Architect
A2011002762

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

SCHEDULES

A6.00

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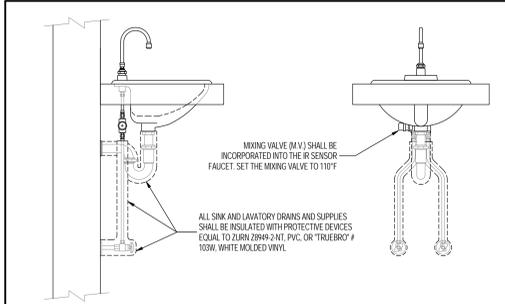
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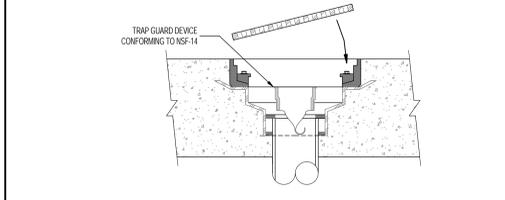
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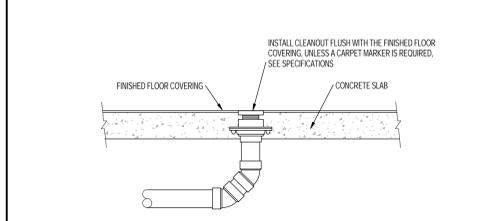
PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MFG.	MODEL	ACCESSORIES	WASTE	VENT	SUPPLY	COMMENTS	APPROVED MANUFACTURERS
C.LAV.	LAVATORY (COUNTERTOP)	ZURN	Z5114	WITH ZURN FALCET Z6915-TM-V-1 AQUASENSE FALCET WITH THERMOSTATIC MIXING VALVE WITH 1.5 GPM AERATOR, #28743-PC GRID STRAINER	2"	1 1/2"	1/2"	COORDINATE ROUGH-IN OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS. SINKS AND LAVATORIES FOR HANDICAPPED ACCESS SHALL BE INSTALLED WITH OFFSET TAILPIECES. ALL SINK AND LAVATORY DRAIN AND WATER LINES SHALL BE INSULATED WITH PROTECTIVE DEVICES EQUAL TO ZURN Z8946 KIT AS REQUIRED, OR "TRUEBRO" #103W, WHITE MOLDED VINYL.	TOTO, KOHLER, AND GERBER
C.O.1	CLEANOUT (EXTERIOR)	ZURN	ZN-1474-G		4"			SAME SIZE AS LINE	WADE AND JAY R. SMITH
F.D.	FLOOR DRAIN	ZURN	Z415-B	TRAP GUARD TG-33 ZURN	2"	1 1/2"			WADE AND JAY R. SMITH
T.E.A.	THERMAL EXPANSION ABSORBER	AMTROL	ST-5						
URN.	URINAL (WALL MOUNTED)	ZURN	Z5755-U	WITH ZURN #Z6000AV-ENIS-YK 0.5 GAL. FLUSH VALVE WITH SOLID RING PIPE SUPPORT, ZURN Z1222 FLOOR MOUNTED URINAL SUPPORT	2"	1 1/2"	1"	COORDINATE ROUGH-IN OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS. URINAL CARRIER MAY BE OMITTED WHERE URINAL IS MOUNTED TO 6" MINIMUM MASONRY WALL.	TOTO AND KOHLER
W.C.	WALL MOUNT WATER CLOSET (FLUSH VALVE TYPE)	ZURN	Z5615	ZURN #Z6000AV-HET-YK 1.28 GAL. FLUSH VALVE WITH SOLID RING PIPE SUPPORT, ZURN Z5950 WHITE OPEN FRONT SEAT COMPLETE WITH BOLT CAPS AND ZURN WALL CARRIER #Z1203 VERTICAL WALL CARRIER BACK TO BACK OR SINGLE AS REQUIRED. COORDINATE COUPLING LENGTH WITH CHASE DIMENSION.	4"	2"	1 1/4"	INSTALL RIM HEIGHT AT 15" AFF. COORDINATE ROUGH-IN OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS. PER ARCHITECTURAL ELEVATION VIEW FOR MOUNTING HEIGHT. INSTALL ALL ANCHOR BOLTS. PROVIDE EXTENDED FIXTURE BOLTS AS REQUIRED.	TOTO, KOHLER AND GERBER
W.H.	ELECTRIC TANK TYPE WATER HEATER	BRADFORD WHITE	LE240S3	WITH PRESSURE AND TEMPERATURE RELIEF VALVE AND WATER HEATER PAN			3/4"	40 GALLONS, 277V/1 PHASE, 4.5KW ELECTRIC	STATE AND RHEEM
W.H.A.	WATER HAMMER ARRESTOR	SILOX CHIEF	653-B						WATTS
W.H.A.2	WATER HAMMER ARRESTOR	SILOX CHIEF	653-D						WATTS



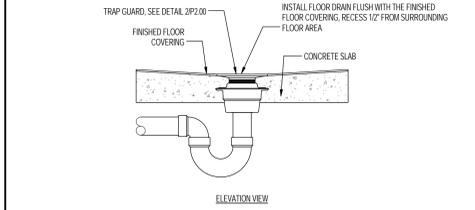
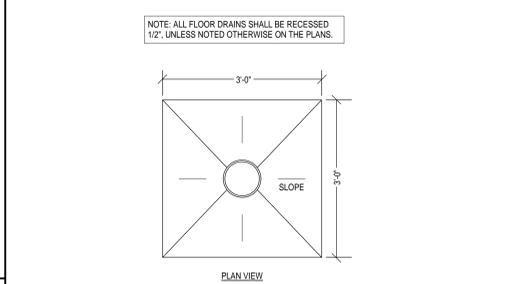
3
P2.00
LAVATORY INSTALLATION DETAIL
N.T.S.



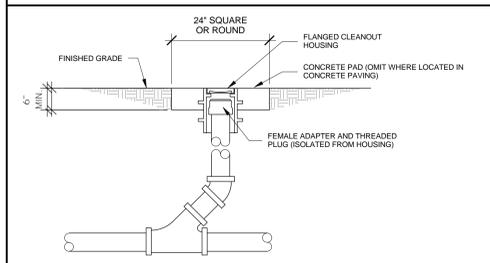
2
P2.00
TRAP GUARD DETAIL
N.T.S.



5
P2.00
INTERIOR CLEANOUT DETAIL
N.T.S.



1
P2.00
FLOOR DRAIN DETAIL
N.T.S.



4
P2.00
EXTERIOR CLEANOUT DETAIL
N.T.S.

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OSARKS TECHNICAL COMMUNITY COLLEGE
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3369 W. JACKSON ST. Nixa, MISSOURI 65714

Professional Engineer
ABBY LANE THURMAN
Number: PE-2010000874
4/27/16

Abby Thurman - Engineer
2010000874

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

PLUMBING SCHEDULES AND DETAILS

P2.00

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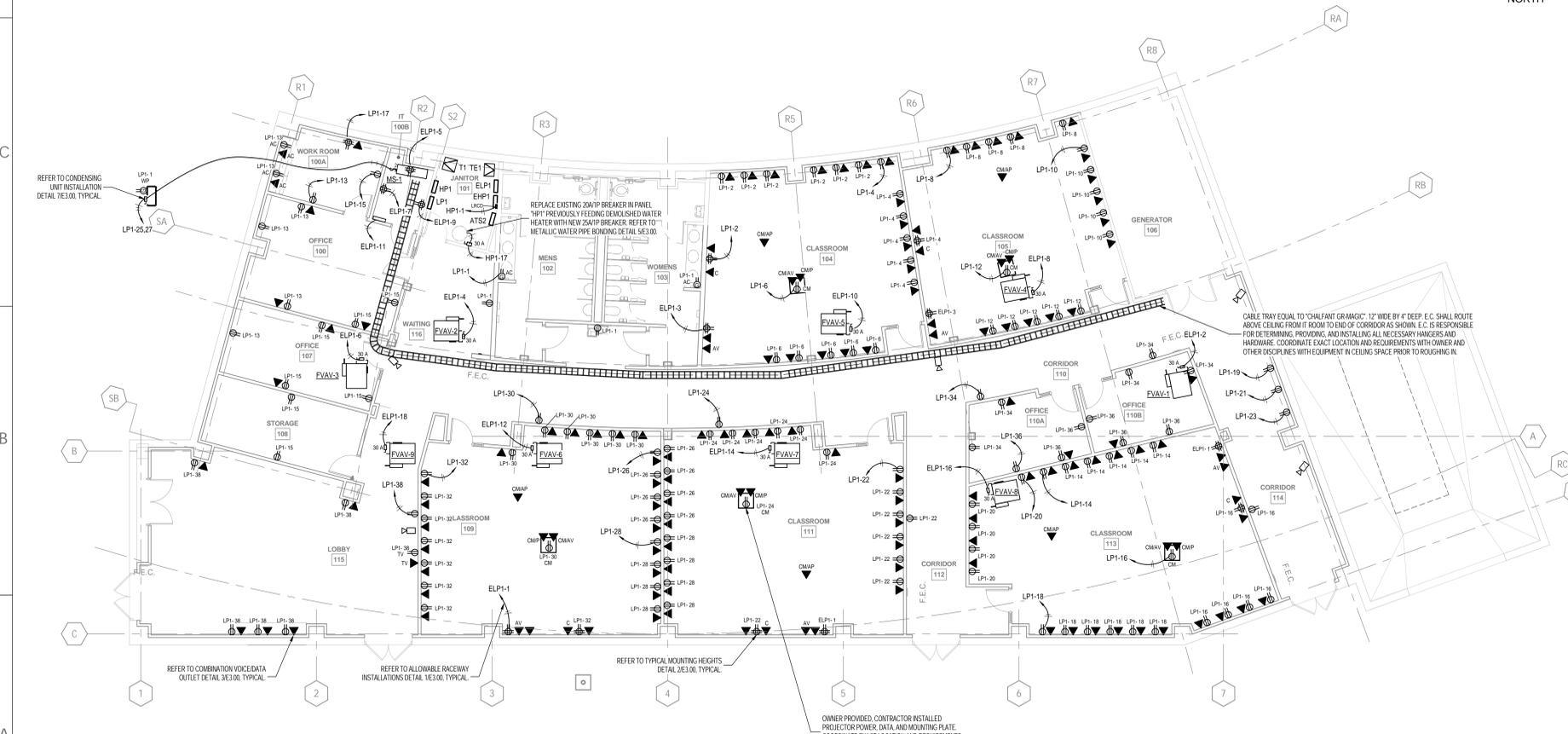
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FIRE ALARM PLAN
1/8" = 1'-0"



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



FIRE ALARM SYMBOL LEGEND

FACP	FIRE ALARM CONTROL PANEL (FACP) WITH 120V POWER AND TWO PAIR TELEPHONE CABLE TO TELEPHONE EQUIPMENT LOCATION.
RA	REMOTE ANNUNCIATOR PANEL (RAP)
RPS	REMOTE POWER SUPPLY (RPS) WITH ADDRESSABLE CONTROL MODULE, COORDINATE LOCATIONS AND 120V POWER REQUIREMENTS WITH E.C.
Ⓜ	FIRE ALARM MANUAL PULL STATION
Ⓢ	SMOKE DETECTOR
Ⓢ	ADDRESSABLE FIRE ALARM SMOKE DUCT DETECTOR (SEE MECHANICAL FOR LOCATIONS)
Ⓢ	HEAT DETECTOR
Ⓢ	WALL MOUNTED SYNCHRONIZED FIRE ALARM AV DEVICE (HORN/STROBE) WITH SELECTABLE CANDELA UNLESS OTHERWISE SPECIFIED. E.C. SHALL COORDINATE WITH E.C. DEPTH OF BOX AND BOX EXTENSION.
Ⓢ	WALL MOUNTED SYNCHRONIZED FIRE ALARM STROBE (VISUAL ONLY) WITH SELECTABLE CANDELA UNLESS OTHERWISE SPECIFIED
Ⓢ	WHITE CEILING MOUNTED SYNCHRONIZED FIRE ALARM STROBE (VISUAL ONLY) WITH SELECTABLE CANDELA UNLESS OTHERWISE SPECIFIED
R	RELAY
Ⓢ	FIRE ALARM WHITE CEILING MOUNTED SPEAKER
Ⓢ	INDIVIDUAL ADDRESSABLE MODULE
W	WIRE MANGLED, PROVIDE AND INSTALL WITH FIRE ALARM DEVICE
ES	FLOW SWITCH
ES	TAMPER SWITCH

- FIRE ALARM NOTES**
1. FIRE ALARM CONTROL PANEL SHALL PROVIDE A POINT ADDRESSABLE SYSTEM.
 2. SEE SPECIFICATIONS FOR EQUIPMENT AND DEVICES.
 3. DIAGRAM IS NOT INTENDED TO SHOW EXACT WIRING. REFER TO FIRE ALARM MANUFACTURER'S WIRING DIAGRAM.
 4. ALARM CIRCUIT IS SHOWN FOR CONCEPT ONLY. WIRING SHALL BE AS REQUIRED BY POWER REQUIREMENTS.
 5. E.C. SHALL COORDINATE POWER REQUIREMENTS AND LOCATIONS FOR AUXILIARY POWER SUPPLIES WITH FIRE ALARM CONTRACTOR DURING FIRE ALARM SYSTEM INSTALLATION.
 6. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION. SUPERVISION OF THE SYSTEM AND LEASED TELEPHONE LINES SHALL BE ARRANGED BY THE OWNER.
 7. FIRE ALARM CONTROL PANEL AND NAC POWER PANELS SHALL BE A DEDICATED 20AMP BREAKER. THE BREAKER SHALL BE PAINTED RED AND LOCKABLE.
 8. MANUAL PULL STATIONS, BREAK GLASS TYPE IS NOT AN OPTION.
 9. SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE.
 10. SMOKE AND HEAT DETECTORS SHALL BE PROTECTED DURING DUSTY/DIRTY CONSTRUCTION CONDITIONS.
 11. DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF SUPPLY REGISTERS.
 12. DETECTORS SHALL NOT BE INSTALLED WITHIN 36" OF THE TIP OF THE BLADE OF A CEILING FAN.
 13. DUCT DETECTORS SUPPLIED, INSTALLED AND WIRED BY FIRE ALARM CONTRACTOR (TYPICAL).
 14. INSTALL REMOTE TEST SWITCH FOR DUCT DETECTORS IN ACCESSIBLE LOCATION. FIRE ALARM CONTRACTOR TO VERIFY LOCATION ON SITE.
 15. FIRE ALARM WIRING SHALL BE IN EMT CONDUIT WHEREVER IT IS EXPOSED BELOW 15' AFF.
 16. DELAYED EGRESS DOORS SHALL UNLOCK.
 17. A SURGE ARRESTER SHALL BE INSTALLED ON ANY FIRE ALARM CIRCUIT EXTENDING OUTSIDE THE BUILDING ENVELOPE.
 18. EXISTING FIRE ALARM CONTROL PANEL IN MAIN CAMPUS BUILDING AND THE NEW FIRE ALARM CONTROL PANEL IN THE FEMA SHELTER INFILL SHALL COMMUNICATE WITH EACH OTHER. PANELS SHALL INDICATE WHEN THE OTHER PANEL IS IN SUPERVISORY, ALARM OR TROUBLE MODE. FIRE ALARM CONTRACTOR SHALL INSTALL DEVICES (ADDRESSABLE MODULES, NEW ZONES, ETC) TO ACCOMPLISH THIS. ALL LOW VOLTAGE WIRING BETWEEN BUILDINGS BY FIRE ALARM CONTRACTOR AND ALL LINE VOLTAGE WIRING BY E.C. WIRING BETWEEN BUILDINGS SHALL BE INSTALLED IN EXISTING 4" CONDUIT. COORDINATE WITH ALL DISCIPLINES (P/AC) WHICH CONDUIT IS AVAILABLE FOR ELECTRICAL WIRING BETWEEN BUILDINGS.

POWER SYMBOL LEGEND

Ⓢ	ALL SYMBOLS MAY NOT OCCUR ON THIS PROJECT
Ⓢ	COLOR OF ALL SWITCHES AND RECEPTACLES SHALL BE SELECTED BY OWNER/ARCHITECT. COVER PLATES SHALL BE STAINLESS STEEL. EMERGENCY RECEPTACLES SHALL BE RED.
Ⓢ	STANDARD DUPLEX RECEPTACLE (WITH NUMERICAL CIRCUIT DESIGNATION WHERE REQUIRED)
Ⓢ	GF (GROUND FAULT INTERRUPTING) DUPLEX RECEPTACLE (WITH NUMERICAL CIRCUIT DESIGNATION WHERE REQUIRED)
Ⓢ	GF DUPLEX RECEPTACLE WITH IN USE WEATHER COVER (WITH NUMERICAL CIRCUIT DESIGNATION WHERE REQUIRED)
Ⓢ	POWER DATA DEVICE MOUNTED FLUSH IN CEILING (WITH NUMERICAL CIRCUIT DESIGNATION WHERE REQUIRED)
Ⓢ	THREE GANG RECESSED TV BOX EQUAL TO "PASS & SEYMOUR TVLWITWCCZ" WITH DATA AND POWER DEVICES AS REQUIRED. COORDINATE EXACT HEIGHT AND LOCATION WITH OWNER PRIOR TO ROUGHING IN TO CORRELATE BEHIND WALL MOUNTED ALL-IN-ONE PDS.
Ⓢ	QUADREX RECEPTACLE (TWO DUPLEX RECEPTACLES IN ONE 2-GANG BOX UNDER A SINGLE COVER PLATE. WITH NUMERICAL CIRCUIT DESIGNATION WHERE REQUIRED)
Ⓢ	COMBINATION COMMUNICATION DATA OUTLET BOX WITH 3/4" CONDUIT STUBBED INTO CEILING SPACE. VERIFY EXACT LOCATION. INSTALL PULL STRING WITH 12" OF EXCESS COILED AT EACH END OF CONDUIT RUN. SEE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
Ⓢ	DATA OUTLET BOXES FOR PROJECTOR AND CONNECTIONS. BOXES SHALL BE INSTALLED THE SAME AS STANDARD DATA BOX WITH THE FOLLOWING EXCEPTION: 3/4" CONDUIT SHALL BE ROUTED BETWEEN ONE OF THE DATA BOXES IN THE CEILING MOUNTED PROJECTOR PLATE AND THE DATA BOX INDICATED BEHIND TEACHERS STATION. COORDINATE EXACT REQUIREMENTS AND DESIRED LOCATIONS WITH OWNER.
Ⓢ	DATA BOX IN OWNER PROVIDED PROJECTOR PLATE FOR PROJECTOR DATA CONNECTION
Ⓢ	CEILING MOUNTED DATA BOX FOR WIRELESS ACCESS POINT DEVICE
Ⓢ	DATA PORT FOR CLOCK. INSTALL SAME AS STANDARD DATA BOX EXCEPT LOCATED ABOVE WHITE BOARD. FIELD VERIFY EXACT HEIGHT.
Ⓢ	SPECIAL RECEPTACLE, VERIFY CONFIGURATION
Ⓢ	CEILING MOUNTED SECURITY CAMERA LOCATION. E.C. SHALL PROVIDE J-BOX AND ROUTE 3/4" CONDUIT TO WITHIN NEAREST CABLE TRAY. COORDINATE EXACT REQUIREMENTS WITH OWNER AND SECURITY DEVICE INSTALLER PRIOR TO ROUGHING IN.
Ⓢ	NON FUSED DISCONNECT (SAFETY) SWITCH WITH AMPACITY AS INDICATED
Ⓢ	FUSED DISCONNECT (SAFETY) SWITCH WITH AMPACITY AS INDICATED
Ⓢ	JUNCTION BOX
Ⓢ	RELAY. SEE DETAIL OR DESCRIPTIVE TEXT ON PLAN FOR MORE INFORMATION
Ⓢ	LIGHTING RELAY CONTROL DEVICE (LRCD). REFER TO EMERGENCY LIGHT FIXTURE WIRING DIAGRAM DETAIL 2E3.00.
Ⓢ	POWER OR LIGHTING PANEL WITH PANEL DESIGNATION SHOWN ON PLAN (SIZES AND MOUNTING INDICATED ON PLANS)
Ⓢ	FEEDING PANEL AND CIRCUIT NUMBERS NOTE: EQUIPMENT GROUND CONDUCTOR NOT SHOWN
Ⓢ	CIRCUIT CONDUCTORS GROUNDED CIRCUIT CONDUCTOR (OR NEUTRAL)

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4/27/16

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016
POWER AND FIRE ALARM PLAN
E2.00

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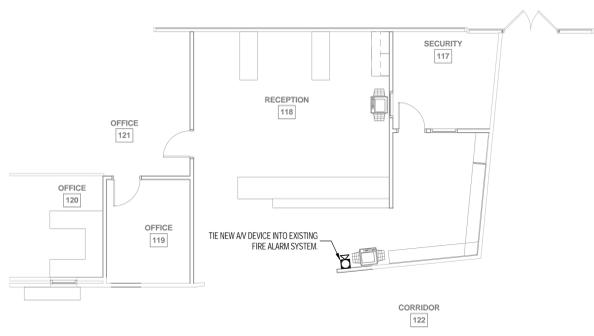
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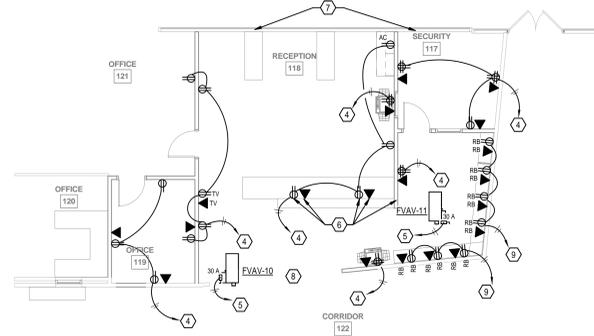
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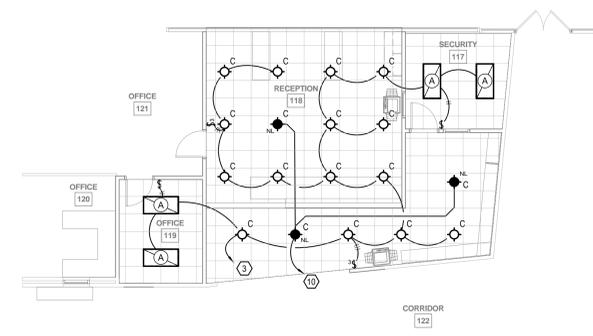
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FIRE ALARM PLAN - ALTERNATE #1
1/8" = 1'-0"



POWER PLAN - ALTERNATE #1
1/8" = 1'-0"

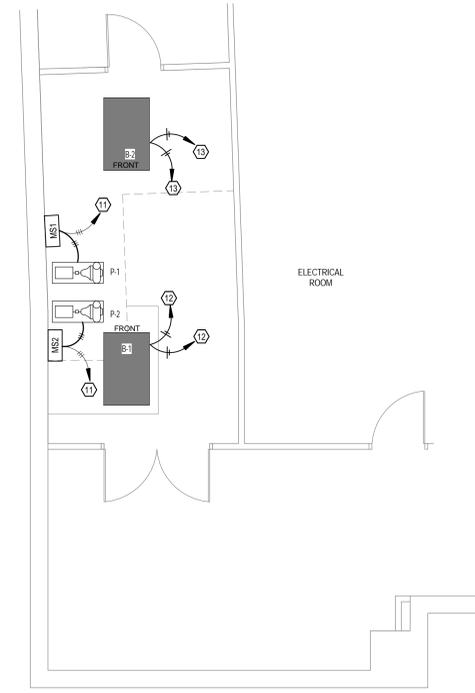


LIGHTING PLAN - ALTERNATE #1
1/8" = 1'-0"

ALTERNATE #1 ELECTRICAL KEY NOTES

NOTE:
EXISTING POWERDATA LOCATIONS NOT SHOWN, E.C. SHALL NOT REMOVE ANY EXISTING POWERDATA IN EXISTING WALLS UNLESS NOTED OTHERWISE. CONFIRM ALL EXISTING LOCATIONS AND COORDINATE NEW LOCATIONS AND REQUIREMENTS WITH OWNER PRIOR TO ROUGHING IN.

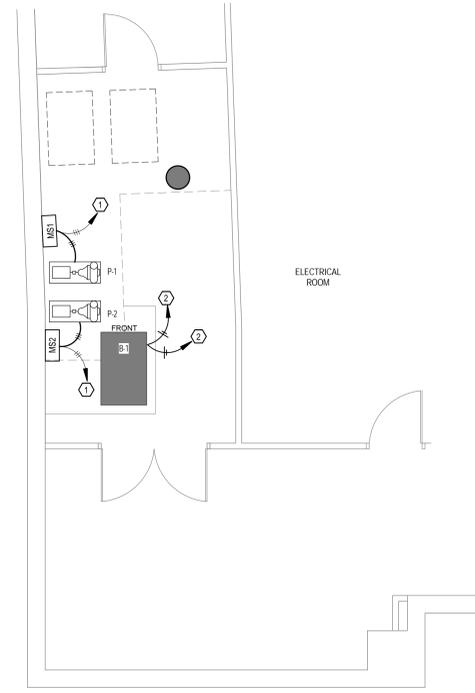
- WIRE NEW LIGHT FIXTURES TO EXISTING CIRCUIT "LP-2" PREVIOUSLY FEEDING RECEPTION AREA LIGHTING USING #12S WIRES. FIELD VERIFY EXACT REQUIREMENTS.
- WIRE TO NEW 20AMP BREAKER (USE SPARE IF AVAILABLE) IN AVAILABLE SPACE IN EITHER PANEL "GPIC" OR "GPID". FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS.
- WIRE TO NEW 15AMP IN AVAILABLE SPACE IN EITHER PANEL "GPIC" OR "GPID". FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- CIRCUITRY AND CONDUIT FOR CASEWORK MOUNTED DEVICES SHALL BE ROUTED DOWN WALL FROM CEILING SPACE AND THEN THROUGH CASEWORK TO DEVICE LOCATIONS. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGHING IN.
- EXISTING DEVICES LOCATED IN THIS WALL SHALL REMAIN AND BE REUSED. COORDINATE WITH OWNER WHETHER ANY EXISTING DEVICES WILL NEED TO BE RELOCATED. IF SO, EXTEND/ROUTED CONDUIT, CIRCUITRY, AND DEVICES AS REQUIRED.
- EXISTING OVERHEAD DOOR OPERATOR(S) AND EXISTING SWITCHES, CONDUIT, AND CIRCUITRY SHALL BE REMOVED. LEAVE BREAKERS IN PANEL, AS SPARE FOR FUTURE USE. FIELD VERIFY EXACT REQUIREMENTS.
- WIRE TO NEW 20AMP BREAKER (USE SPARE IF AVAILABLE) IN AVAILABLE SPACE IN EITHER PANEL "GPIC" OR "GPID". CIRCUIT SHALL BE ROUTED THROUGH SURGE PROTECTION DEVICE EQUAL TO ZERO SURGE FF1-200V-120" TWO CIRCUIT SURGE PROTECTION DEVICE. MOUNT ENCLOSURE ON AVAILABLE WALL SPACE IN ELECTRICAL ROOM. FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS.
- WIRE TO NEAREST EXISTING CORRIDOR EMERGENCY/EGRESS LIGHTING CIRCUIT. FIELD VERIFY EXACT REQUIREMENTS.



BOILER ROOM - ALTERNATE #2
1/4" = 1'-0"

ALTERNATE#2 ELECTRICAL KEY NOTES

- REPLACE EXISTING 15AMP BREAKER IN PANEL "A1" PREVIOUSLY FEEDING PUMP WITH NEW 20AMP BREAKER. REPLACE AND INCREASE ALL CIRCUITRY TO #12S WIRES. REPLACE AND INCREASE EXISTING MOTOR STARTER WITH STARTER RATED FOR MINIMUM OF 7.5 HP (IF EXISTING STARTER IS RATED HIGH ENOUGH, REUSE). FIELD VERIFY EXACT REQUIREMENTS.
- PROVIDE AND INSTALL NEW 20AMP BREAKER (USE EXISTING SPARE IF AVAILABLE) IN EXISTING PANEL "GP". WIRE USING #12S BOILER CONTROL CIRCUIT SHALL BE TIED INTO EXISTING EMERGENCY SHUTOFF SWITCHES. FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS.
- REUSE EXISTING 20AMP CIRCUITS FROM DEMOLISHED BOILERS. EXTEND/ROUTED CIRCUITRY AS REQUIRED TO NEW BOILER. E.C. SHALL CONFIRM THAT BOILER CONTROL CIRCUIT IS PROPERLY TIED INTO EXISTING EMERGENCY SHUTOFF SWITCHES. FIELD VERIFY EXACT REQUIREMENTS.



BOILER ROOM - BASE BID
1/4" = 1'-0"

BASE BID ELECTRICAL KEY NOTES

- REPLACE EXISTING 15AMP BREAKER IN PANEL "A1" PREVIOUSLY FEEDING PUMP WITH NEW 20AMP BREAKER. REPLACE AND INCREASE ALL CIRCUITRY TO #12S WIRES. REPLACE AND INCREASE EXISTING MOTOR STARTER WITH STARTER RATED FOR MINIMUM OF 7.5 HP (IF EXISTING STARTER IS RATED HIGH ENOUGH, REUSE). FIELD VERIFY EXACT REQUIREMENTS.
- PROVIDE AND INSTALL NEW 20AMP BREAKER (USE EXISTING SPARE IF AVAILABLE) IN EXISTING PANEL "GP". WIRE USING #12S BOILER CONTROL CIRCUIT SHALL BE TIED INTO EXISTING EMERGENCY SHUTOFF SWITCH (ES). FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS.

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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

ELECTRICAL PLANS - ALTERNATES

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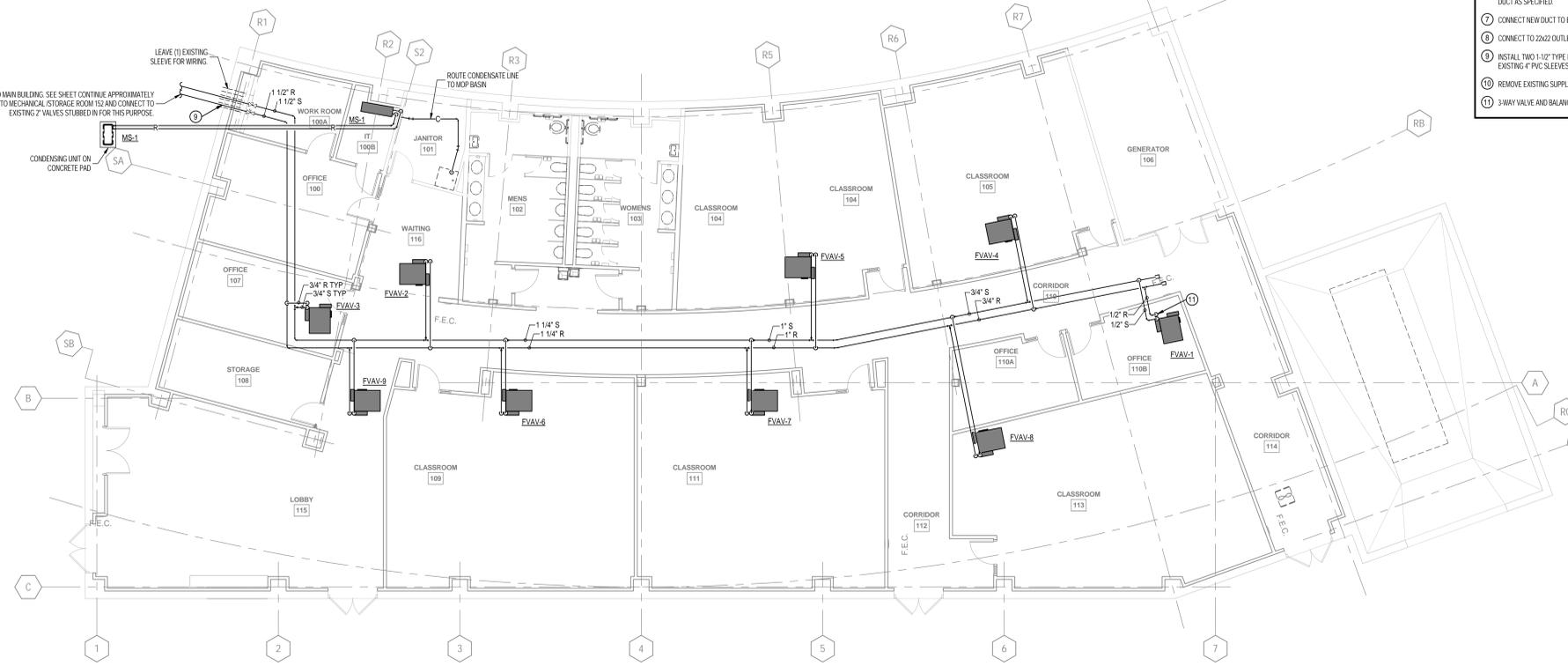
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- ### KEY NOTES
- REMOVE ALL EXISTING EXHAUST GRILLES AND BRANCH DUCTS. MAIN EXHAUST DUCT IS TO REMAIN.
 - RE-BALANCE EXISTING EXHAUST FAN FOR 1000 CFM AT 0.5 ESP.
 - EXISTING DUCTS TO GENERATOR ROOM ARE NOT SHOWN, BUT ARE TO REMAIN AS-IS.
 - REMOVE EXISTING TURNING VANES.
 - INSTALL MOTORIZED DAMPER IN EXISTING DUCT, CONFIRM DUCT SIZE.
 - REMOVE ALL EXISTING DUCT FROM BASE OF UNIT TO BUILDING. REPLACE WITH NEW DUCT AS SPECIFIED.
 - CONNECT NEW DUCT TO EXISTING.
 - CONNECT TO 22x22 OUTLET OF EXISTING SUPPLY FAN.
 - INSTALL TWO 1/2" TYPE L COPPER LINES WITH 3/4" ARMORFLEX INSULATION IN EXISTING 4" PVC SLEEVES. JOINTS SHALL BE SILVER SOLDERED.
 - REMOVE EXISTING SUPPLY AIR DUCT AND REPLACE AS SHOWN.
 - 3-WAY VALVE AND BALANCING VALVE ON EXHAUST ONLY.

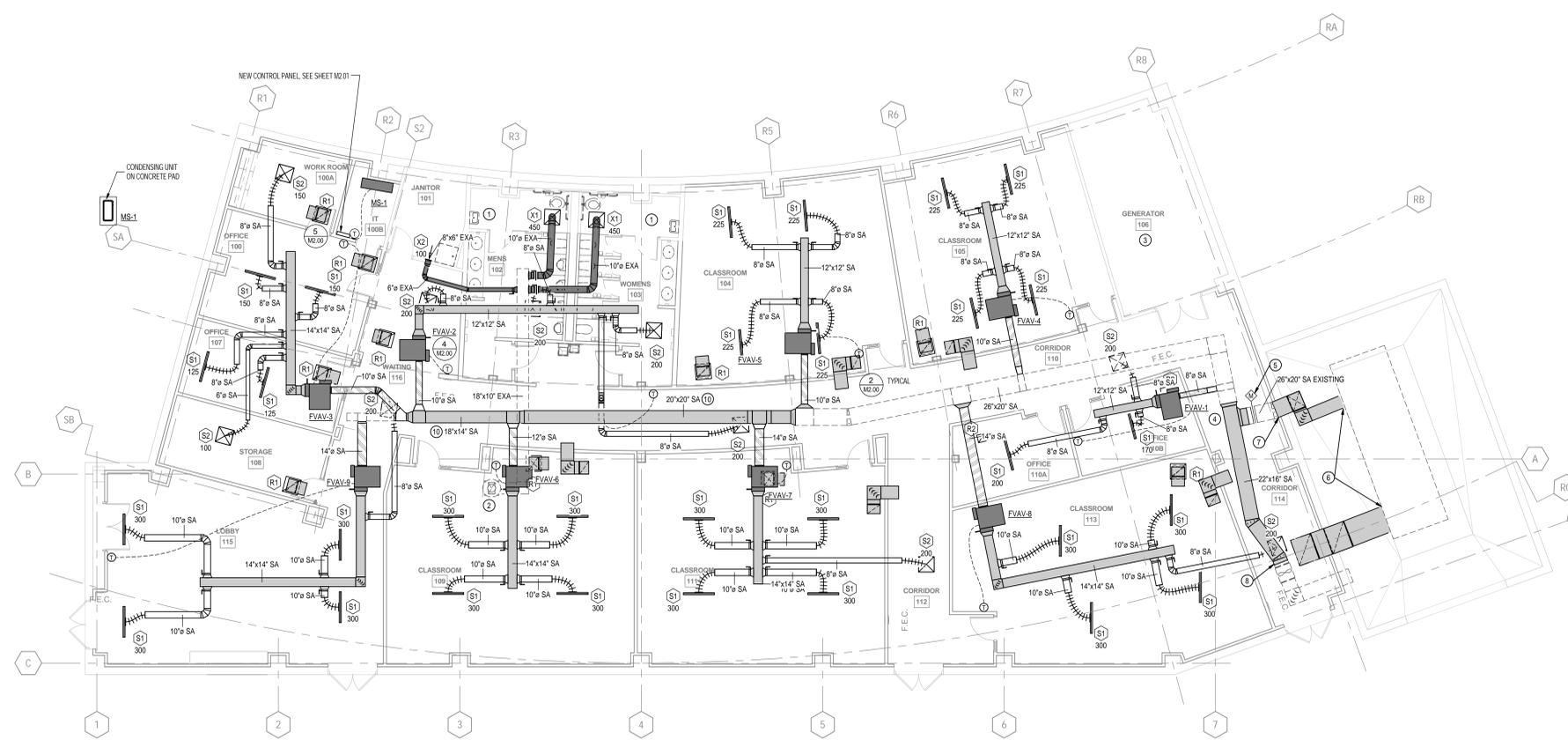
- ### GENERAL HVAC NOTES
- ALL DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. REFER TO ARCHITECTURAL PLANS OR FIELD MEASUREMENTS FOR DIMENSIONS.
 - ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE 2006 INTERNATIONAL MECHANICAL CODE.
 - THE CONTRACTOR SHALL COORDINATE WITH ALL STATE AND LOCAL BUILDING REGULATION AGENCIES AND UTILITY COMPANIES IN THE PROCUREMENT OF AND PAYMENT OF ALL PERMITS, LICENSES, FEES AND CHARGES REQUIRED FOR THE PERFORMANCE OF THE WORK.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND DIRECT EXPENSES INVOLVED IN ANY INSPECTION REQUIRED FOR THE PROJECT.
 - SEE SPECIFICATION SECTION "CONTRACT CLOSE-OUT AND COMMISSIONING" FOR WORK REQUIRED TO COMPLETE THIS PROJECT.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS.
 - A SUBMITTAL OF ALL MATERIALS AND EQUIPMENT PROPOSED TO BE USED ON THE JOB SHALL BE PREPARED AS SOON AS POSSIBLE AFTER AWARD OF THE CONTRACT. THE SUBMITTAL WILL BE REVIEWED FOR EQUAL QUALITY AND PERFORMANCE TO THE ITEMS SPECIFIED. ALL CONTROL DEVICES AND SEQUENCES OF CONTROL SHALL BE INCLUDED IN THE SUBMITTAL. A TABULATION OF SUBMITTED ITEMS MUST BE INCLUDED.
 - THE HVAC CONTRACTOR SHALL SUBMIT A COMPLETE LIST OF ALL ELECTRICAL POWER REQUIREMENTS OF HIS HVAC EQUIPMENT TO THE ENGINEER AND TO THE ELECTRICAL CONTRACTOR FOR COORDINATION OF WIRING AND CIRCUITS. ANY INADEQUACY OF WIRING PROVISIONS WILL BE RECTIFIED AT THE EXPENSE OF THE HVAC CONTRACTOR UNLESS THE REQUIREMENTS ARE SHOWN CLEARLY ON THIS LIST. HVAC EQUIPMENT SUBMITTALS WILL BE REJECTED IF THIS LIST IS NOT ATTACHED.
 - SEE SPECIFICATIONS FOR CONTROL SYSTEM REQUIREMENTS. THE PROPER PERFORMANCE OF THE CONTROL SYSTEM IS THE RESPONSIBILITY OF THIS CONTRACTOR.
 - THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS ON THE PROJECT. COORDINATION DOES NOT MEAN "WHASERE FIRST".
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE AND FUNCTIONAL SYSTEM IN ACCORDANCE WITH THE INTENT OF THE PLANS, WHETHER OR NOT EVERY ELEMENT THEREOF IS SPECIFICALLY CALLED OUT.
 - SEE SPECIFICATIONS FOR ALL REQUIREMENTS FOR DUCTWORK, DUCT LINER AND INSULATION, AND DUCTWORK INSTALLATION REQUIREMENTS. DUCT DIMENSIONS ON PLANS ARE TO BE FINISHED INSIDE DIMENSIONS UNLESS OTHERWISE SPECIFIED.
 - ALL ROOF AND WALL PENETRATIONS REQUIRED SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR. PROVIDE ALL SLEEVES, FLASHING, CURBS, REINFORCING ANGLES, SUPPORTING FRAMES, ETC., WHICH ARE REQUIRED UNLESS THEY ARE SPECIFICALLY CALLED OUT TO BE FURNISHED BY OTHERS.
 - THE CONTRACTOR SHALL SCHEDULE AND EXECUTE ALL WORK WITH REGARD TO THE OWNER'S USE OF THE BUILDING DURING PERIOD OF CONSTRUCTION. VERIFY ALL POSSIBLE SCHEDULING CONFLICTS WITH THE OWNER'S REPRESENTATIVE.
 - INSTALL ACCESS PANELS OR DOORS WHERE EQUIPMENT AND/OR VALVES ARE LOCATED IN CONCEALED SPACES.
 - THE HVAC CONTRACTOR SHALL REFER TO "TYPICAL HVAC CONSTRUCTION AND INSTALLATION DETAILS" CONTAINED IN THIS PLAN SET FOR ADDITIONAL REQUIREMENTS.

HVAC LEGEND

	EXHAUST REGISTER		TURNING VANES
	SUPPLY AIR DIFFUSER		THERMOSTAT
	RETURN AIR GRILLE		BALANCING DAMPER: VENT PRODUCTS, 5/11 OR 5/12. SIZE EQUAL TO DUCT, WITH LOCKING QUADRANT
	VERTICAL SUPPLY DUCT		MOTORIZED DAMPER: VENT PRODUCTS, MODEL S911. SIZE EQUAL TO DUCT, WITH BELIMO SPRING-RETURN DAMPER MOTOR
	VERTICAL RETURN DUCT		FIRE DAMPER: CESCO-ULTRA SAFE, MODEL 75A OR 75C. SIZE EQUAL TO DUCT. MOUNTED TO DUCT AT WALL, WITH 18" ACCESS DOOR WHERE REQUIRED
	RECTANGULAR DUCT		HVAC EQUIPMENT
	SPIRAL DUCT (PAINT GRIP FINISH)		
	ROUND DUCT		
	EXHAUST DUCT		
	BELLMOUTH FITTING (WITH DAMPER): BUCKLEY MODEL BM-0. SIZE EQUAL TO DUCT, WITH NEOPRENE GASKET 26-GAUGE STEEL DAMPER		



HVAC PIPING PLAN
1/8" = 1'-0"



HVAC PLAN
1/8" = 1'-0"



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Professional Engineer Seal for Abby Thurman, State of Missouri, License # PE-201000874, dated 4/27/16.

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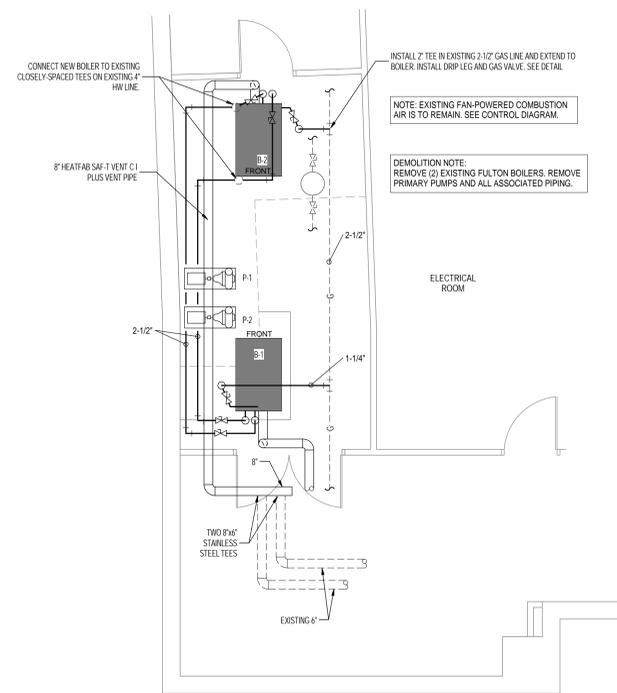
MECHANICAL PLAN

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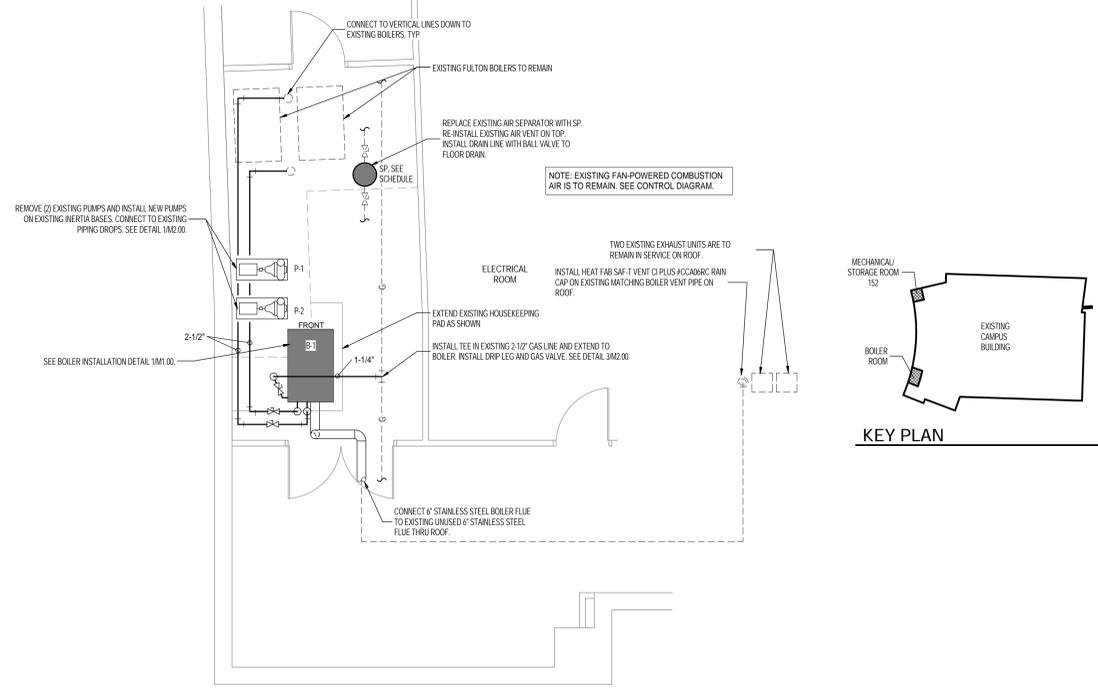
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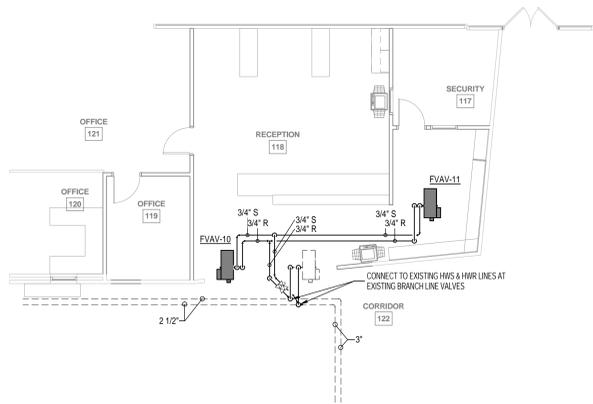
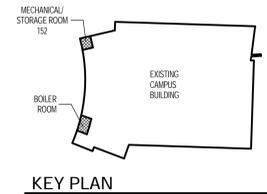
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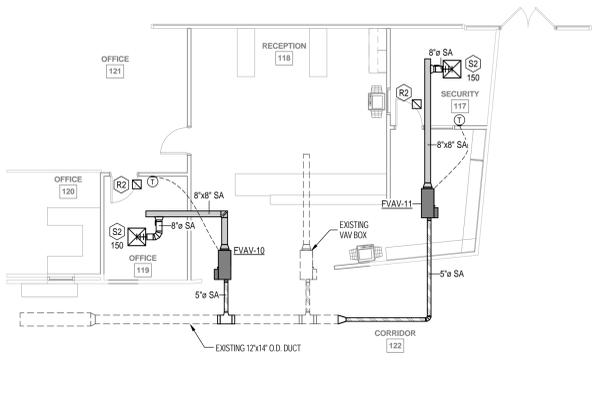
BOILER ROOM - ALTERNATE #2
1/4" = 1'-0"



BOILER ROOM - BASE BID
1/4" = 1'-0"



HVAC PIPING PLAN - ALTERNATE #1
1/8" = 1'-0"



HVAC PLAN - ALTERNATE #1
1/8" = 1'-0"

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MECHANICAL PLANS - ALTERNATES

M1.01

MINI-SPLIT/CONDENSING UNIT SCHEDULE									
MARK	DESCRIPTION	MFG.	MODEL	CAPACITY (BTU/H)	ELECTRICAL			ACCESSORIES	COMMENTS
					VOLTAGE	PHASE	MCA	MOCPP	
MS-1	SPLIT SYSTEM INDOOR AIR HANDLER	DAIKIN	MSZ-FH09NA	9000.0	208 V	1	11 A	15 A	WALL MOUNTED THERMOSTAT (NO WIRELESS REMOTE CONTROLLER)
MS-1	SPLIT SYSTEM OUTDOOR CONDENSER	DAIKIN	MUZ-FH09NA	9000.0	208 V	1	11 A	15 A	0' LOW AMBIENT CAPABLE

SPIROTHERM SCHEDULE					
MARK	DESCRIPTION	MFG.	MODEL	SIZE	COMMENTS
SP	AIR/DEBRIS SEPARATOR	SPIROTHERM	VDT-400	4"	REPLACE EXISTING AIR SEPARATOR

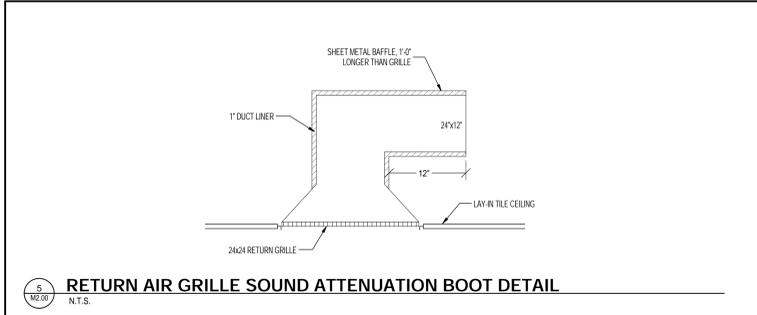
VAV BOX SCHEDULE (OFCA)																			
MARK	DESCRIPTION	MFG.	MODEL	HEATING COIL			CONTROL VALVE	AIR VALVE			ELECTRICAL DATA			ACCESSORIES	COMMENTS	DETAIL REFERENCE			
				MBH	PD (FT)	GPM		# ROWS	MIN CFM	MAX CFM	AIR P.D.	FAN CFM	MAX INCH				VOLTAGE	PHASE	MCA
FVAV-1	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	21.98	1.50	1.00	2	1/2" - 1.0 GPM - BELIMO 3-WAY CONTROL VALVE	200	570	0.14	300	35	120 V	1	2	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-2	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	28.04	0.78	1.50	2	1/2" - 1.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	300	800	0.11	400	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-3	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	28.04	0.78	1.50	2	1/2" - 1.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	300	800	0.11	400	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-4	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	29.49	0.78	1.50	2	1/2" - 1.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	400	900	0.13	400	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-5	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	29.49	0.78	1.50	2	1/2" - 1.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	400	900	0.13	400	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-6	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	36.97	1.32	2.00	2	1/2" - 2.0 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	400	1200	0.19	600	35	120 V	1	8.88	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-7	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	44.97	1.99	2.50	2	1/2" - 2.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	500	1400	0.24	800	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-8	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	44.97	1.99	2.50	2	1/2" - 2.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	500	1400	0.24	800	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-9	PARALLEL FAN POWERED VAV BOX	TRANE	VPWF	44.97	1.99	2.50	2	1/2" - 2.5 GPM - BELIMO 2-WAY PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE	500	1400	0.24	800	35	120 V	1	8.38	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-10	SERIES FAN POWERED VAV BOX	TRANE	VSWF-05P	11.3	1.30	1.00	2	1/2" - 1.0 GPM - BELIMO 3-WAY CONTROL VALVE	50	150	0.25	150	35	120 V	1	2	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00
FVAV-11	SERIES FAN POWERED VAV BOX	TRANE	VSWF-05P	11.3	1.30	1.00	2	1/2" - 1.0 GPM - BELIMO 3-WAY CONTROL VALVE	50	150	0.25	150	35	120 V	1	2	15	1/2" MATTE INSULATION, SOUND ATTENUATION PACKAGE	4/M2.00

BOILER SCHEDULE																			
MARK	DESCRIPTION	MFG.	MODEL	HEATING (MBH)			EWT	LWT	RATING	ELECTRICAL			PUMP ELECTRICAL		COMBUSTION AIR	FLUE	ACCESSORIES	COMMENTS	
				IN	OUT	GPM				VOLTAGE	PHASE	MCA	MOCPP	VOLTAGE					PHASE
B-1	MODULATING VERTICAL HYDRONIC BOILER	RAYPAK	X-THERM HF-1005A	999	959		120 F	160 F	96%	120 V	1	12 A	20 A	120 V	1	8"ø	6"ø	FLOW SWITCH, ADJUSTABLE AUTO HIGH LIMIT CONTROL, LOW WATER CUT-OFF, MODULATING CONTROL (7-1)	PROVIDE BOILER WITH INTEGRAL CONTROLLER TO MAINTAIN A FIXED LEAVING WATER TEMPERATURE WHEN ENABLED (ADJUSTABLE). PROVIDE BOILER VENT CONNECTOR "AL29-4C", STAINLESS STEEL
B-2	(PART OF BID ALTERNATE #2) MODULATING VERTICAL HYDRONIC BOILER	RAYPAK	X-THERM HF-2005A	1999	1919		120 F	160 F	96%	120 V	1	18 A	20 A	120 V	1	8"ø	8"ø	FLOW SWITCH, ADJUSTABLE AUTO HIGH LIMIT CONTROL, LOW WATER CUT-OFF, MODULATING CONTROL (7-1)	PROVIDE BOILER WITH INTEGRAL CONTROLLER TO MAINTAIN A FIXED LEAVING WATER TEMPERATURE WHEN ENABLED (ADJUSTABLE). PROVIDE BOILER VENT CONNECTOR "AL29-4C", STAINLESS STEEL

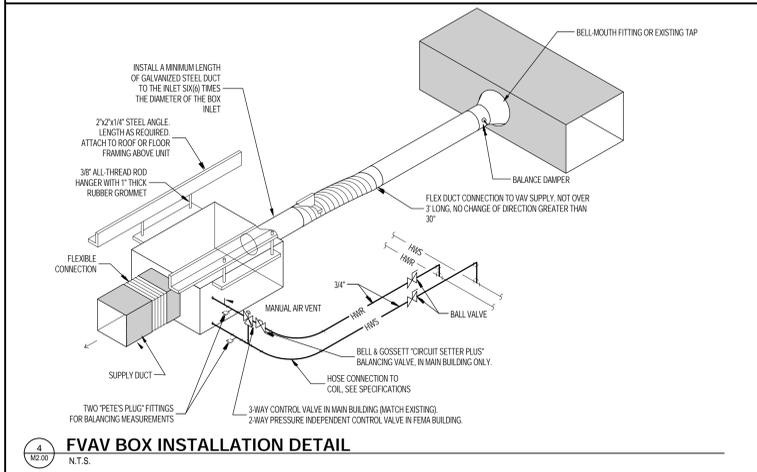
*FLOW IS SELF-REGULATING VIA THE INTERNAL PRIMARY PUMP

AIR DEVICE SCHEDULE									
MARK	DESCRIPTION	MFG.	MODEL	SIZE (INCHES)	FINISH	MOUNTING	NECK SIZE	ACCESSORIES	COMMENTS
R1	EGGGRATE RETURN GRILLE	KRUEGER	EGG5	24x24	WHITE	LAY-IN	PER PLAN		SOUND ATTENUATION BOOT, SEE DETAIL 5/M2.00
R2	EGGGRATE RETURN GRILLE	KRUEGER	EGG5	12x12	WHITE	CEILING	PER PLAN		
S1	LINEAR SUPPLY DIFFUSER	KRUEGER	1900	48	WHITE	LAY-IN	PER PLAN	PLENUM BOOT	TWO(2) 1" SLOTS, ADJUST FOR HORIZONTAL THROW
S2	SUPPLY DIFFUSER	KRUEGER	SSHR	24x24	WHITE	LAY-IN	PER PLAN		
X1	EXHAUST GRILLE	KRUEGER	EGG5	24x24	WHITE	LAY-IN	PER PLAN	SQUARE TO ROUND ADAPTER	
X2	EXHAUST GRILLE	KRUEGER	SS80	8x8	WHITE	WALL	PER PLAN	OPPOSED BLADE DAMPER	0" DEFLECTION

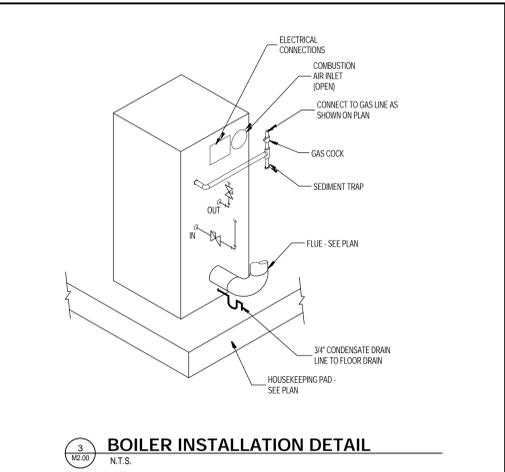
PUMP SCHEDULE													
MARK	DESCRIPTION	MFG.	MODEL	FLOW (GPM)	HEAD (FT)	MOTOR HP	MOTOR RPM	ELECTRICAL			ACCESSORIES	COMMENTS	
								VOLTAGE	PHASE	MCA			MOCPP
P-1 AND P-2	BASE MOUNTED PUMP HOT WATER	BELL & GOSSETT	2-1/2 BB	265 GPM	60	7-1/2	1750	460 V	3	11 A	20 A	SUCTION DIFFUSER, TRIPLE DUTY VALVE	PROVIDE WITH FLANGED CONNECTIONS. OPERATE AS LEAD/LAG.



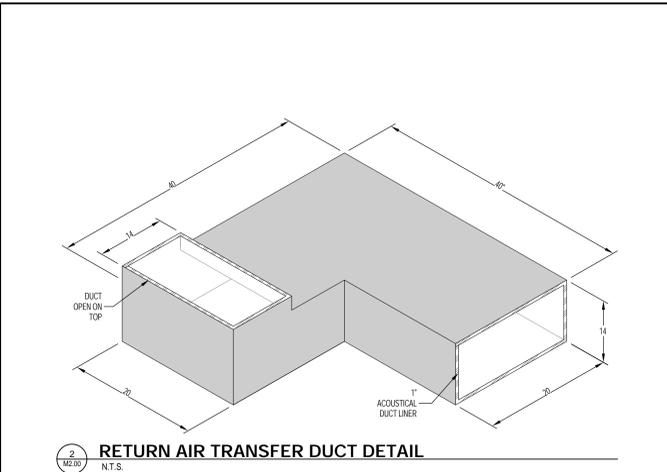
RETURN AIR GRILLE SOUND ATTENUATION BOOT DETAIL
N.T.S.



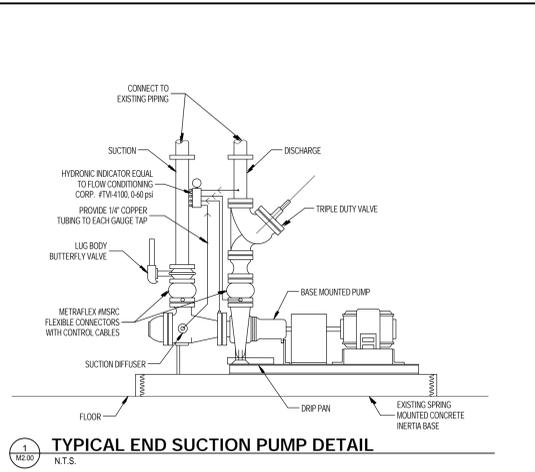
FVAV BOX INSTALLATION DETAIL
N.T.S.



BOILER INSTALLATION DETAIL
N.T.S.



RETURN AIR TRANSFER DUCT DETAIL
N.T.S.



TYPICAL END SUCTION PUMP DETAIL
N.T.S.

TYPICAL HVAC CONSTRUCTION DETAILS

TYPICAL LAY-IN DIFFUSER
N.T.S.

DUCT & INSULATION HANGER
N.T.S.

DUCT & INSULATION HANGER WITH SHIELD
N.T.S.

VERTICAL FIRE DAMPER
N.T.S.

CONDENSATE TRAP
N.T.S.

DUCT LINING
N.T.S.

DUCT WRAP INSULATION AND HANGER
N.T.S.

DUCT WRAP INSULATION
N.T.S.

DUCT SEALANT
N.T.S.

TURNING VANES
N.T.S.

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REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016
HVAC SCHEDULES AND DETAILS

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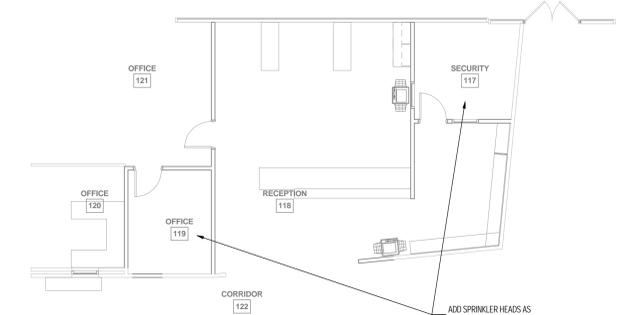
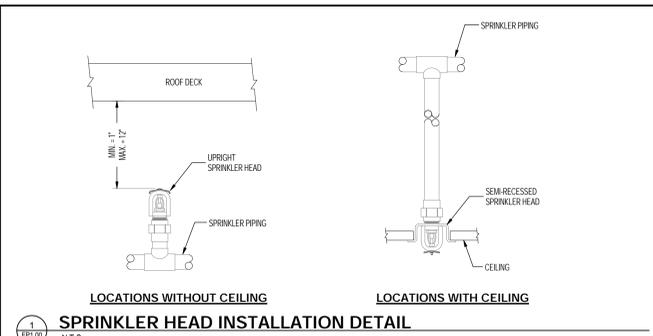
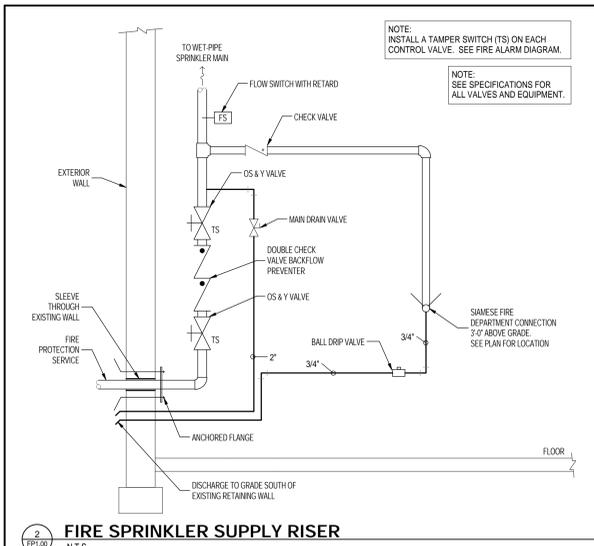
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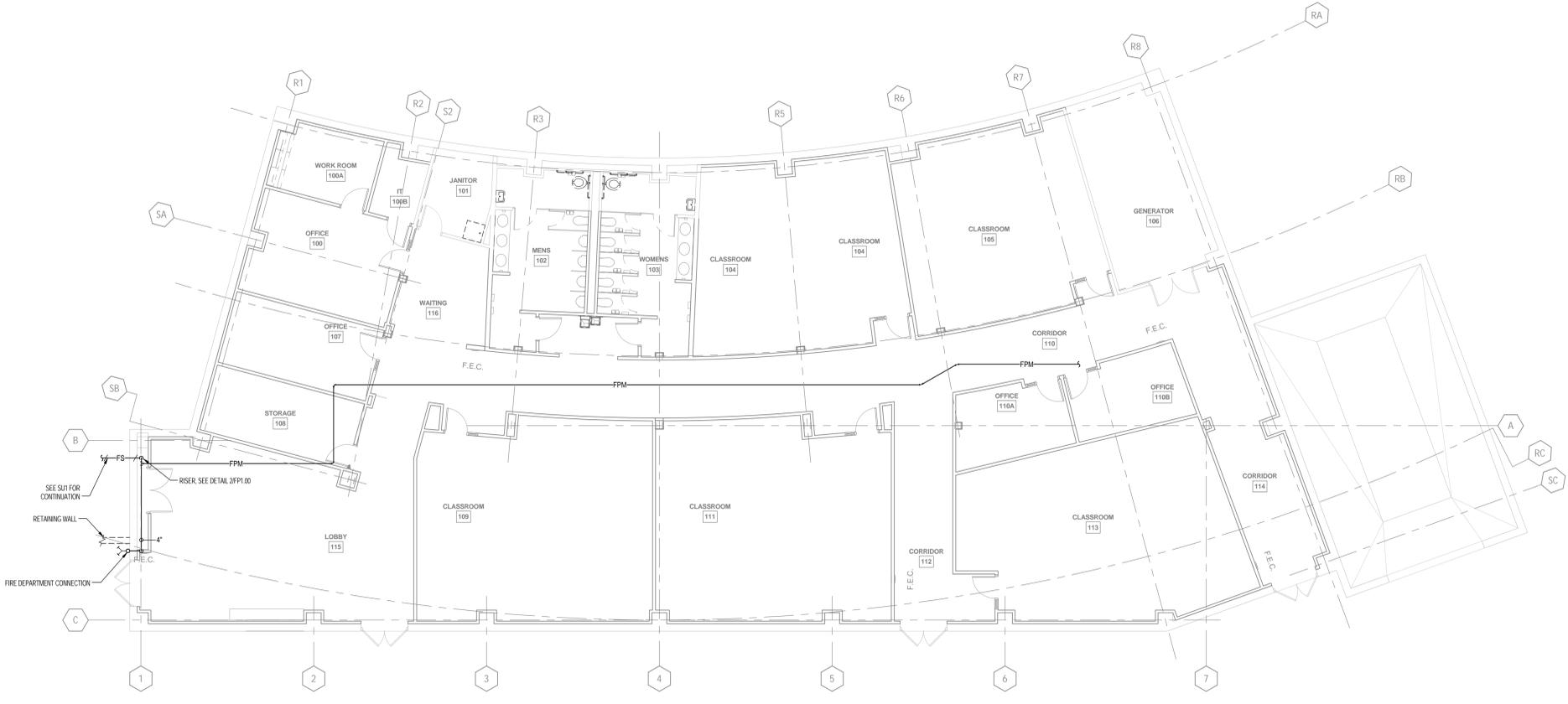
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FIRE PROTECTION PLAN - ALTERNATE 1
1/8" = 1'-0"



FIRE PROTECTION PLAN
1/8" = 1'-0"



FIRE PROTECTION GENERAL NOTES

- ALL DRAWINGS ARE "PRELIMINARY" (AS DEFINED BY NFPA 13), DIAGRAMATIC AND ARE NOT TO BE SCALED. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- THE CONTRACTOR SHALL COORDINATE WITH ALL STATE AND LOCAL BUILDING REGULATION AGENCIES AND UTILITY COMPANIES IN THE PROCUREMENT OF AND PAYMENT OF ALL PERMITS, LICENSES, FEES AND CHARGES REQUIRED FOR THE PERFORMANCE OF THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES AND DIRECT EXPENSES INVOLVED IN ANY INSPECTION REQUIRED FOR THE PROJECT.
- SEE SPECIFICATION SECTION "CONTRACT CLOSE-OUT AND COMMISSIONING" FOR WORK REQUIRED TO COMPLETE THIS PROJECT.
- SEE SPECIFICATIONS FOR REQUIREMENTS FOR PIPING, SPRINKLER HEADS, BACKFLOW PREVENTION, SUBMITTALS, ETC.
- SEE SPECIFICATIONS AND PLAN NOTES FOR HAZARD CLASSIFICATIONS. ALL PIPING SHALL BE SIZED BY HYDRAULIC CALCULATIONS.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13 AND THE APPLICABLE BUILDING CODE REQUIREMENTS FOR PIPING INSTALLATIONS.
- COORDINATE ALL HEAD AND PIPE LOCATIONS WITH THE WORK OF OTHER TRADES. VERIFY ALL CEILING CONDITIONS. COORDINATION DOES NOT MEAN "I WAS HERE FIRST".
- THE CONTRACTOR SHALL INSTALL A COMPLETE AND OPERABLE SYSTEM TO PROTECT THE BUILDING AS INDICATED, WHETHER OR NOT EVERY ELEMENT REQUIRED IS SPECIFICALLY CALLED OUT.
- CONTRACTOR SHALL SUBMIT SPRINKLER SYSTEM DRAWINGS IDENTIFIED AS "WORKING PLANS". PREPARED ACCORDING TO NFPA 13. SUBMIT REQUIRED NUMBER OF SETS TO AUTHORITY HAVING JURISDICTION FOR REVIEW, COMMENT AND APPROVAL. INCLUDE SYSTEM HYDRAULIC CALCULATIONS. WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. DO NOT SUBMIT UNSEALED DRAWINGS, AS THEY WILL BE REJECTED.
- DO NOT INSTALL THE FIRE SERVICE OR ANY SPRINKLER SYSTEM PIPING UNTIL THE SPRINKLER SHOP DRAWINGS AND HYDRAULIC CALCULATIONS ARE APPROVED BY THE FOLLOWING:
 - OWNER
 - ENGINEER
 - CODE OFFICIALS

FIRE PROTECTION PIPING LEGEND



PRELIMINARY SPRINKLER SYSTEM DESIGN CRITERIA

HAZARD GROUP	AREA OF PROJECT	DENSITY (GPM/SF)	OVERMOST RETENED AREA (SF)	MAXIMUM AREA PER SPRINKLER (SF)	HOSE ALLOWANCE (GPM)
LIGHT HAZARD	CLASSROOMS, CORRIDORS, OFFICES, LOBBY, RESTROOMS	0.10	1500	225	100
			NOTE 1	NOTE 2	
ORDINARY HAZARD GROUP 1	GENERATOR ROOM, STORAGE ROOM	0.15	1500	130	250
			NOTE 1	NOTE 2	

- NOTES**
- OPERATION AREA MAY BE REDUCED BY USING QUICK-RESPONSE SPRINKLERS IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA-13.
 - COORDINATE ALL HEAD AND PIPE LOCATIONS WITH THE WORK OF OTHER TRADES. VERIFY ALL CEILING CONDITIONS WITH ARCHITECTURAL PLANS.

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REVISIONS

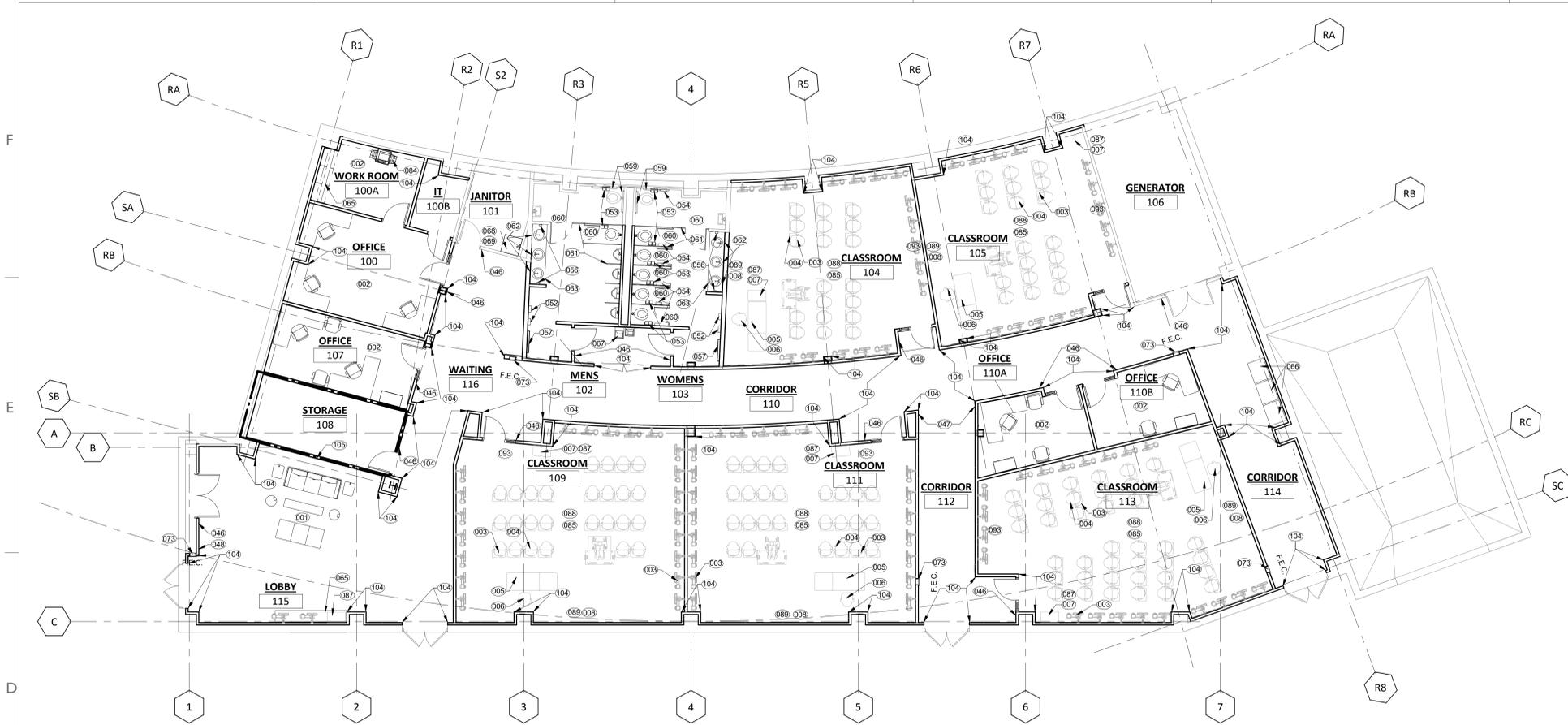
NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
RELEASE DATE: 04/27/2016

FIRE PROTECTION PLAN

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1 FEMA EQUIPMENT FURNITURE PLAN
 Q1.00 1/8" = 1'-0"

MARK	FF&E TYPE	BASIS OF DESIGN	CSI SECTION #	FURNISHED BY	INSTALLED BY	CONNECTED BY	SPECIAL REMARKS (CONTRACTOR)
001	Furniture - Commons Furniture (tables, chairs, etc.)	N/A	N/A	OWNER	OWNER	N/A	
002	Furniture - Offices (desks, chairs, filing cabinets, etc.)	N/A	N/A	OWNER	OWNER-OTHERS	N/A	
003	Classroom - Student Desk	KI	N/A	OWNER	OWNER-OTHERS	OWNER-OTHERS	24" X 72"; COORDINATE ELECTRICAL / DATA REQUIREMENTS
004	Classroom - Student Chair	KI	N/A	OWNER	OWNER-OTHERS	N/A	
005	Classroom - Instructor Desk	KI	N/A	OWNER	OWNER-OTHERS	OWNER-OTHERS	30" X 72"; COORDINATE ELECTRICAL / DATA REQUIREMENTS
006	Classroom / Lab - Instructor Chair	KI	N/A	OWNER	OWNER-OTHERS	N/A	
007	Classroom - Printer Table	KI	N/A	OWNER	OWNER-OTHERS	N/A	18" X 48"
008	Classroom - Marker Board	N/A	10100	OWNER	CONTRACTOR	N/A	4" HIGH, 12", 20", 24", 28" LENGTHS. COORDINATE MOUNTING REQUIREMENTS. ALL CLASSROOMS TO HAVE 24"-0" LENGTH.
045	Signage - Building (aluminum letters)	N/A	10426	CONTRACTOR	CONTRACTOR	N/A	TWO DIFFERENT SIZE LETTERS.
046	Signage - Room Identification	N/A	10426	CONTRACTOR	CONTRACTOR	N/A	
047	Signage - Directional (interior)	N/A	10426	CONTRACTOR	CONTRACTOR	N/A	
048	Signage - Occupancy Identification	N/A	10426	CONTRACTOR	CONTRACTOR	N/A	
052	Restroom - Paper Towel Dispenser	N/A	10990	OWNER	CONTRACTOR	N/A	
053	Restroom - Toilet Paper Dispenser	N/A	10990	OWNER	CONTRACTOR	N/A	
054	Restroom - Sanitary Napkin / Tampon Vendor	N/A	10990	OWNER	CONTRACTOR	N/A	
056	Restroom - Soap Dispenser	N/A	10990	OWNER	CONTRACTOR	N/A	
057	Restroom - Baby Changing Station	N/A	10990	OWNER	CONTRACTOR	N/A	
059	Restroom - ADA Grab Bars	N/A	10990	OWNER	CONTRACTOR	N/A	
060	Restroom - Coat Hook	N/A	10990	OWNER	CONTRACTOR	N/A	
061	Restroom - Toilet Partitions	N/A	10155	CONTRACTOR	CONTRACTOR	N/A	
062	Restroom - Mirror	N/A	10801	CONTRACTOR	CONTRACTOR	N/A	
063	Restroom - Vanities (Millwork)	N/A	06402	CONTRACTOR	CONTRACTOR	CONTRACTOR	VERIFY ADA VANITIES ARE PROVIDED.
065	Millwork	N/A	06402	CONTRACTOR	CONTRACTOR	CONTRACTOR	VERIFY CABINET LOCKING REQUIREMENTS WITH THE OWNER.
066	Vending Machines	N/A	N/A	OWNER-OTHERS	OWNER-OTHERS	OWNER-OTHERS	COORDINATE UTILITY HOOK-UP REQUIREMENTS
067	Drinking Fountains	ELKAY - EZDSTLBC	15410	CONTRACTOR	CONTRACTOR	CONTRACTOR	
068	Mop Sink	FIAT - MSB-2424	15410	CONTRACTOR	CONTRACTOR	CONTRACTOR	
069	Mop Hangers	N/A	N/A	CONTRACTOR	CONTRACTOR	N/A	Roll N' Grip Brush and Broom Holder, 18" L, 3 Grips; by Cole-Parmer. Quantity: 2
073	Fire Extinguishers & Cabinets (recessed)	NYSTROM - PALISADE	10520	CONTRACTOR	CONTRACTOR	N/A	ABC DRY CHEMICAL
080	Cable Tray	COOPER ELECTRIC	10135	CONTRACTOR	CONTRACTOR	N/A	COORDINATE TRANSITION RISE/DROP ANGLES BETWEEN DIFFERENT HEIGHT AREAS WITH THE OWNER.
081	AV / Data Cabling	N/A	N/A	OWNER	OWNER	OWNER	
082	Communications Cabling	N/A	N/A	OWNER	OWNER-OTHERS	OWNER-OTHERS	
083	AV / Data Outlets	N/A	N/A	OWNER	OWNER	OWNER	
084	Copy Machine	N/A	N/A	OWNER	OWNER	OWNER	COORDINATE HOOK-UP REQUIREMENTS
085	Projectors	N/A	N/A	OWNER	OWNER	OWNER	COORDINATE WALL PLATE REQUIREMENTS WITH THE OWNER.
086	Computers	N/A	N/A	OWNER	OWNER	OWNER	
087	Printers	N/A	N/A	OWNER	OWNER	OWNER	
088	Projector Mounting Plate	N/A	10990	OWNER	CONTRACTOR	CONTRACTOR	
089	Projector Screen	N/A	11132	OWNER	CONTRACTOR	N/A	MANUAL PULL-DOWN SCREENS
090	IT Racks & IT equipment (servers, switches, routers, etc.)	N/A	N/A	OWNER	OWNER	OWNER	
091	Door Hardware (excluding cylinders)	N/A	08710	CONTRACTOR	CONTRACTOR	CONTRACTOR	
092	Door Hardware - Cylinders / Keying	N/A	N/A	OWNER	OWNER	N/A	
093	Wall Clocks	N/A	10990	OWNER	CONTRACTOR	CONTRACTOR	
094	Televisions	N/A	N/A	OWNER	OWNER	OWNER	
096	Security Cameras	N/A	N/A	OWNER	OWNER-OTHERS	OWNER-OTHERS	
097	Finishes - Carpet Tile	N/A	09680	OWNER	CONTRACTOR	N/A	
098	Finishes - Vinyl Base	N/A	09650	OWNER	CONTRACTOR	N/A	
099	Finishes - Ceramic wall/floor tile & base	N/A	09310	OWNER	CONTRACTOR	N/A	
100	Finishes - VCT	N/A	09650	OWNER	CONTRACTOR	N/A	
102	Building Security Alarm System	N/A	N/A	OWNER	OWNER-OTHERS	OWNER-OTHERS	
103	Trash Bins	N/A	N/A	OWNER	OWNER	N/A	
104	Vinyl Wall Edge Guards	N/A	N/A	CONTRACTOR	CONTRACTOR	N/A	Flexible Vinyl Corner Guard, 2-1/2" Wings, 3/16" Radius, 4" H, CG-3 BY GLOBAL INDUSTRIES. COLOR TO MATCH EXISTING.
105	Donor Wall	N/A	N/A	CONTRACTOR	CONTRACTOR	N/A	NO MEP DEVICES SHALL BE PLACED ON DONOR WALL.

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 OTC COLLEGE
 1001 E CHESTNUT EXPRESSWAY
 SPRINGFIELD, MO 65802

CONSULTANT
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 3855 SOUTH JEFFERSON AVE
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NO.	DATE	DESCRIPTION

PROJECT NUMBER: 15088
 RELEASE DATE: 04/27/2016

EQUIPMENT - FEMA
 FURNITURE PLAN

Q1.00

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