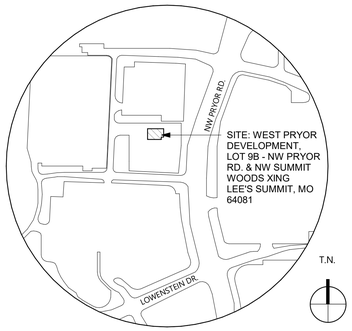
PNC MO LEE'S SUMMIT
GROUND UP BRANCH



LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING

RS&H JOB NO.: 524-0368-028

ISSUE DATE: 02/15/2022

DRAWING ISSUE: PERMIT DOCUMENTS

INDEX OF DRAWINGS:

PROJECT INFORMATION	
SHEET NUMBER	SHEET NAME
G001	COVER SHEET
G002	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
G003	ACCESSIBILITY CLEARANCES
G004	RESPONSIBILITY MATRIX
G005	PARTITION TYPES
G101	LIFE SAFETY PLAN
CIVIL	
SHEET NUMBER	SHEET NAME
C200	SITE PLAN
C300	GRADING AND UTILITY PLAN
C400	LANDSCAPE PLAN
C500	DETAILS
C501	DETAILS
ARCHITECTURAL / INTERIORS	
SHEET NUMBER	SHEET NAME
A101	DIMENSIONED FLOOR PLAN
A102	FLOOR PLAN
A111	REFLECTED CEILING PLAN
A121	ROOF PLAN
A201	EXTERIOR ELEVATIONS
A202	EXTERIOR ELEVATIONS
A301	BUILDING SECTION
A302	BUILDING SECTION
A311	EXTERIOR WALL SECTIONS
A312	EXTERIOR WALL SECTIONS
A313	EXTERIOR WALL SECTIONS
A314	EXTERIOR WALL SECTIONS
A321	EXTERIOR WALL DETAILS
A322	EXTERIOR WALL DETAILS
A401	ENLARGED RESTROOM PLANS AND ELEVATIONS
A402	INTERIOR ELEVATIONS
A403	INTERIOR ELEVATIONS
A404	INTERIOR ELEVATIONS
A421	INTERIOR MEDIA WALL SECTIONS
A501	INTERIOR DETAILS
A601	DOOR SCHEDULE, DOOR TYPES AND NOTES
A602	WINDOW TYPES
A701	MILLWORK DETAILS
A702	PERCH DETAILS
A703	CHECK WRITING DETAILS
A901	PLAN DETAILS
ID100	INTERIOR FINISH SCHEDULE & LEGEND
ID200	INTERIOR FINISH PLAN
ID300	FFE PLAN

STRUCTURAL	
SHEET NUMBER	SHEET NAME
S001	GENERAL STRUCTURAL NOTES
S002	ABBREVIATIONS, SCHEDULES AND PERSPECTIVE VIEW
S003	STATEMENT OF SPECIAL INSPECTIONS
S101	FOUNDATION AND SLAB PLAN
S102	CANOPY FRAMING PLAN
S103	ROOF FRAMING PLAN
S201	WALL ELEVATIONS
S501	FOUNDATION SECTIONS AND DETAILS
S502	FRAMING SECTIONS AND DETAILS
S503	CANOPY SECTIONS AND DETAILS
MECHANICAL	
SHEET NUMBER	SHEET NAME
M001	MECHANICAL NOTES, LEGEND, ABBREVIATIONS
M101	MECHANICAL PLAN
M102	ROOF PLAN
M301	MECHANICAL DETAILS
M302	MECHANICAL DETAILS
M401	MECHANICAL SCHEDULES
M402	MECHANICAL SCHEDULES
P001	PLUMBING NOTES, LEGEND, ABBREVIATIONS
P101	WASTE AND VENT PLAN
P102	DOMESTIC WATER PLAN
P103	PLUMBING ROOF PLAN
P201	PLUMBING RISER DIAGRAMS
P301	PLUMBING DETAILS
ELECTRICAL	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS
E101	ELECTRICAL LIGHTING PLAN
E200	FLOORBOX AND CONDUIT ROUGH-IN PLAN
E201	ELECTRICAL POWER & COMMUNICATIONS PLAN
E301	ELECTRICAL SYSTEMS PLAN
E302	ELECTRICAL SYSTEMS PLAN - ROOF
E401	ELECTRICAL DETAILS
E402	ELECTRICAL DETAILS
E501	ELECTRICAL RISER DIAGRAM AND SCHEDULES
E502	ELECTRICAL SCHEDULES
E601	LIGHTING COMCHECK
ES101	ELECTRICAL SITE PLAN

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ARCHITECTURE | ENGINEERING | CONSULTING RS&H

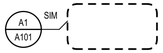
ARCHITECTURAL ABBREVIATIONS

&	AND
@	AT
Ø	DIAMETER
A.B.	ANCHOR BOLT
A/C	AIR CONDITIONER
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
A.F.S.	ABOVE FLOOR SLAB
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD.	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	APPROXIMATE OR APPROXIMATELY
ARCH	ARCHITECTURE, ARCHITECTURAL
AVG	AVERAGE
A.W.I.	ARCHITECTURAL WOODWORK INSTITUTE
B.H.M.I.	BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION, INC.
BIM	BUILDING INFORMATION MODELING
BLDG.	BUILDING
BM.	BEAM
B.O.	BOTTOM OF
B.U.R.	BUILT-UP ROOFING
℄	CENTERLINE
℄O.T.S.	CENTERLINE OF TENANT SEPARATION
C.J.	CONTROL JOINT
CLG.	CEILING
CLR.	CLEAR
CLO.	CLOSET
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
COLS.	COLUMNS
CONC.	CONCRETE
CONT.	CONTINUOUS
D.S.	DOWNSPOUT
DIA.	DIAMETER
DR.	DOOR
DTL. OR DET.	DETAIL
DWG.	DRAWING
EA.	EACH
E.F.S.	EXTERIOR FACE OF SHEATHING
E.J.	EXPANSION JOINT
ELEC.	ELECTRIC, ELECTRICAL
ELEV.	ELEVATION
E.O.S.	EDGE OF SLAB
ENG.	ENGINEER, ENGINEERING
E.P.	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.R.D.	EMERGENCY ROOF DRAIN
E.T.D.	ESTIMATED TRAVEL DISTANCE
E.W.C.	ELECTRIC WATER COOLER
EXIST.	EXISTING
EXP.	EXPANSION, EXPOSED
EXT.	EXTERIOR
F.D.	FIRE DAMPER, FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN.	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
F.F.	FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
FHC	FIRE HOSE CABINET
FIN.	FINISH, FINISHED
FLR.	FLOOR
F.O.	FACE OF
F.O.B.	FACE OF BRICK
F.O.P.	FACE OF POST
FT.	FEET
FTG.	FOOTING
F.V.	FIELD VERIFY
FRP	FIBER REINFORCED PANEL
GA.	GAUGE
GALV.	GALVANIZED
GBF	GYPSUM BOARD FURRING
GL.	GLASS
G.P.	GLOSSY PAINT
GYP.	GYPSUM
GWB	GYPSUM WALL BOARD
HB	HOSE BIBB
HDW	HARDWARE
HGT. OR HT.	HEIGHT
HKS	HOOKS
HM	HOLLOW METAL
HORIZ.	HORIZONTAL
HVAC	HEATING VENTILATION & AIR CONDITIONING
I.D.	INSIDE DIAMETER
I.F.S.	INTERIOR FACE OF STUD
i.e.	THAT IS, SUCH AS
IN.	INCH, INCHES
INSUL.	INSULATION
INT.	INTERIOR
JT.	JOINT
JAN.	JANITOR
JST.	JOIST
K.P.	KICK PLATE
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LDG.	LANDING
LONG.	LONGITUDINAL
LT.	LIGHT
LTG.	LIGHTING
LRV.	LOUVER
LVT	LUXURY VINYL TILE
LVP	LUXURY VINYL PLANK
MATL.	MATERIAL
MAX.	MAXIMUM
MECH	MECHANICAL, ELECTRICAL & PLUMBING
MEP	MANUFACTURER
MFGR.	MANAGER
MGR.	MINIMUM
MIN.	MISCELLANEOUS
MISC.	MASONRY OPENING
M.O.	MODIFIED
MOD	METAL
MTL	METAL WALL PANEL
MWP	NUMBER
NO.	NOT APPLICABLE
N/A	NATIONAL FIRE PROTECTION ASSOCIATION
NFPA	NOT IN CONTRACT
N.I.C.	NOT TO SCALE
N.T.S.	ON CENTER
O.C.	OUTSIDE DIAMETER
O.D.	OWNER FURNISHED CONTRACTOR INSTALLED
OFCI	OPENING
OPG	OPPOSITE
OPP.	OCCUPATIONAL SAFETY AND HEALTH ACT
OSHA	OVERHEAD
OVHD	POWER DISTRIBUTION UNIT
PDU	PLASTIC LAMINATE
P.LAM.	PLYWOOD
PLYWD.	PANEL
PNL.	PAIR
PR.	PRE-FABRICATED
PRE-FAB	POUNDS PER SQUARE FOOT
PSF	POUNDS PER SQUARE INCH
PSI	PAINT, PRESSURE TREATED
PT	POLYVINYL CHLORIDE
PVC	QUARRY TILE
Q.T.	RADIUS
R	RAISED ACCESS FLOOR
R.A.F.	RETURN AIR GRILLE
R.A.G.	RUBBER BASE
RB	RECEPTION, RECEPTIONIST
RECEP.	REFRIGERATOR, REFER, REFERENCE
REF	REINFORCING, REINFORCEMENT
REINF	REQUIRED
REQ'D.	REVISED, REVISION
REV.	ROOF DRAIN
R.D.	ROUGH OPENING
R.O.	SEALED CONCRETE
SC	SCHEDULE
SCHED.	SOLID CORE WOOD
SCW	SECTION
SECT.	SQUARE FEET
S.F.	SPRAYED FIRE RESISTIVE MATERIAL
SFRM	SEMI-GLOSS PAINT
S.G.P.	SQUARE INCHES
SQ. IN.	SHEET
SHT.	SHEETS
SHTS.	SIMILAR
SIM.	SPECIFICATIONS
SPECS	SERVICE SINK
S.S.	SOUND TRANSMISSION CLASS
STC	STANDARD
STD.	STEEL
STL.	STORAGE
STOR.	STRUCTURAL, STRUCTURE
STRUCT	SUSPENDED
SUSP.	SQUARE
SQ.	TONGUE & GROOVE
T&G	TELEPHONE
TEL.	TEMPERED GLASS
TG	TOP OF STEEL
T.O.STL.	TOP OF BRICK, TOP OF BEAM
T.O.B.	TOP OF STEEL, TOP OF SLAB
T.O.S.	TOP OF SHEATHING
T.O.SH.	TOP OF WALL
T.O.W.	TYPICAL
TYP.	UNDERWRITERS LABORATORIES
U.L.	UNLESS OTHERWISE NOTED
U.O.N.	VINYL COMPOSITION TILE
VCT OR VT	VAPOR BARRIER
VB	VIRTUAL DESIGN & CONSTRUCTION
VDC	VERTICAL
VERT.	VIRTUAL REALITY
VR	WITH
W/	WATER CLOSET
W.C.	WALL CLEANOUT
WCO	WIRE MESH PARTITION
WMP	WOOD
WD	WELDED WIRE FABRIC
WWF	YARD
YD.	

PLAN SYMBOLS

BUILDING SECTION

CALLOUT HEAD & REGION



DETAIL SECTION

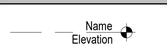
DOOR TAG

ELEVATION - EXTERIOR

ELEVATION - INTERIOR

KEYNOTE

LEVEL HEAD



NORTH ARROW

REVISION TAG

ROOM TAG

ROOM NAME
101

ROOM TAG W/ AREA

ROOM NAME
101
150 SF

SPECIALTY EQUIPMENT TAG

VIEW REFERENCE

MATCHLINE
SEE XX/A101

VIEW TITLE

XX DRAWING TITLE
SCALE: 1/8" = 1'-0"

WALL & CURTAIN WALL TAG

WALL SECTION

WINDOW & LOUVER TAG

MATERIAL SYMBOLS

1-HOUR RATED WALL

2-HOUR RATED WALL

3-HOUR RATED WALL

SMOKE RATED WALL

BATT INSULATION

CONCRETE

EARTH

EXPOSED & FINISHED WOOD TRIM

GRASS

GRAVEL

GYPSUM / PLASTER

MASONRY - BRICK

MASONRY - CONCRETE BLOCK

PLYWOOD

RIGID INSULATION

STEEL

STUCCO / E.I.F.S.

TILE / CARPET

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PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	HAW
DRAWN BY:	CJ
DESIGNED BY:	RSH

PROJECT NUMBER:
524-0368-028

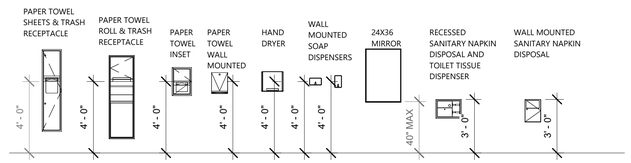
SHEET TITLE:

GENERAL NOTES, ABBREVIATIONS AND SYMBOLS

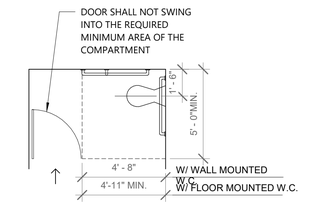
SHEET ID:

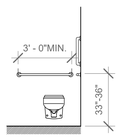
G002

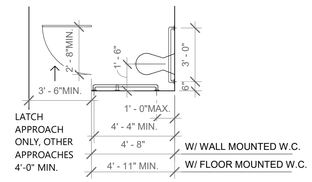
PROJECT STATUS:
PERMIT DOCUMENTS

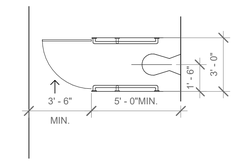


1 G003 **BATHROOM ACCESSORIES**
1/4" = 1'-0"

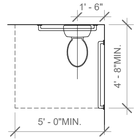


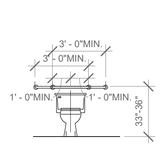


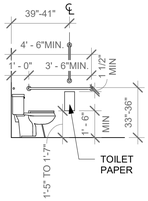


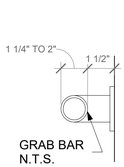


2 G003 **MULTI-USER TOILET**
1/4" = 1'-0"

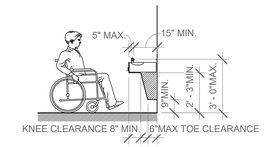


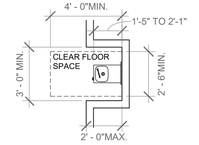




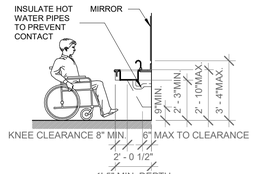


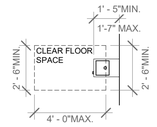
3 G003 **SINGLE-USER TOILET**
1/4" = 1'-0"



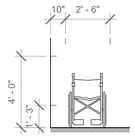


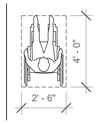
4 G003 **DRINKING FOUNTAIN**
1/4" = 1'-0"

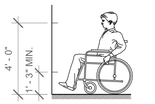


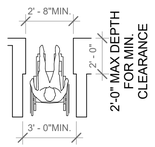


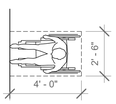
5 G003 **SINK OR VANITY**
1/4" = 1'-0"



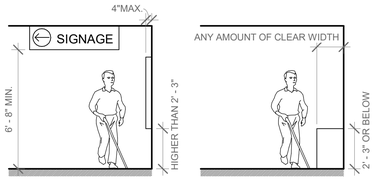




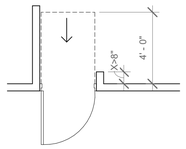




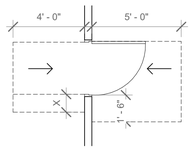
6 G003 **REACH RANGES**
1/4" = 1'-0"



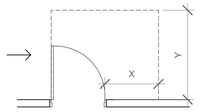
7 G003 **PROTRUDING OBJECTS**
1/4" = 1'-0"



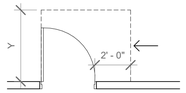
NOTE: IF X IS > THAN 8" THEN FORWARD APPROACH SHALL BE USED WITH NO SIDE CLEARANCE PROVIDED NO LATCHSET IS USED, OR A SIGN IS PROVIDED STATING "DOOR SHALL REMAIN OPEN DURING BUSINESS HOURS".



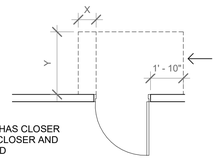
NOTE: X=1'-0" IF DOOR HAS BOTH A CLOSER AND A LATCH



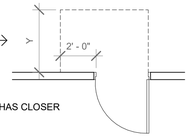
NOTE: X=3'-0" MIN. IF Y=5'-0"
X=3'-6" MIN. IF Y=4'-6"



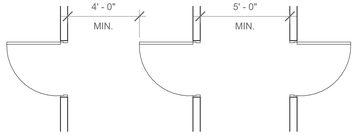
NOTE: Y=4'-0" MIN.
Y=4'-6" MIN. IF DOOR HAS CLOSER



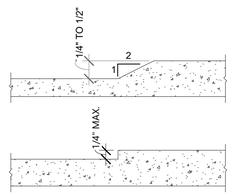
NOTE: Y=3'-6" MIN.
Y=4'-0" MIN. IF DOOR HAS CLOSER
X=1'-0" MIN. IF BOTH CLOSER AND LATCH ARE PROVIDED



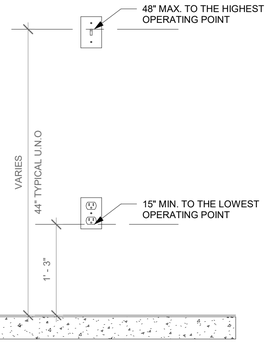
NOTE: Y=3'-6" MIN.
Y=4'-0" MIN. IF DOOR HAS CLOSER



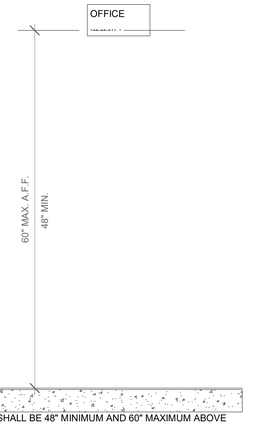
8 G003 **ADA CLEARANCES**
1/4" = 1'-0"



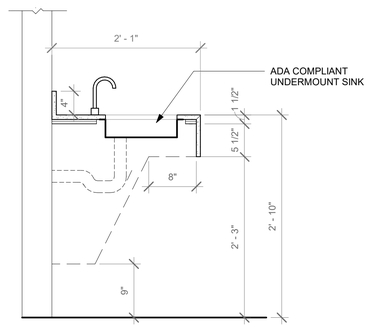
9 G003 **THRESHOLDS**
6" = 1'-0"



10 G003 **SWITCH HEIGHT**
1" = 1'-0"



11 G003 **INTERIOR SIGNAGE**
1" = 1'-0"



12 G003 **ACCESSIBILITY SINK**
1" = 1'-0"

RS&H, Inc.
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MO LICENSE NOS. 2003019618 * 2003019636

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	HAW
DRAWN BY:	CJ
DESIGNED BY:	RSH

PROJECT NUMBER:
524-0368-028

SHEET TITLE:
ACCESSIBILITY CLEARANCES

SHEET ID:
G003

PROJECT STATUS:
PERMIT DOCUMENTS

NOT APPLICABLE	FURNISHED / PURCHASED BY:		INSTALLED BY:			
	OWNER	GC	OWNER	GC		
0	1	2	3	4	**GENERAL**	**NOTES**
				X	SUBCONTRACTOR PERMITS	
		X			SITE WORK - SURVEY / AS BUILTS	
0	**1**	**2**	**3**	**4**	**SIGNAGE**	**NOTES**
	X		X		EXTERIOR BUILDING SIGNAGE	G.C. TO PROVIDE POWER AS REQUIRED AND ENSURE ALL PENETRATIONS ARE SEALED.
	X		X		INTERIOR SIGNAGE & MARKETING	G.C. TO PROVIDE POWER AS REQUIRED AND ENSURE ALL PENETRATIONS ARE SEALED.
0	**1**	**2**	**3**	**4**	**CARPENTRY / MILLWORK**	**NOTES**
		X		X	MILLWORK	G.C. TO PROVIDE AND INSTALL FROM PNC APPROVED VENDOR.
		X		X	FSC CERTIFIED PLYWOOD	G.C. TO COORDINATE CONDUIT ROUTING HOLD-TO DIMENSIONS WITH MILLWORK
0	**1**	**2**	**3**	**4**	**DOORS & MILLWORK**	**NOTES**
		X		X	VESTIBULE STOREFRONT	INCLUDING HARDWARE
	X		X		STANLEY SLIDING DOORS	PNC TO DIRECT CONTRACT WITH STANLEY FOR SUPPLY AND INSTALLATION
0	**1**	**2**	**3**	**4**	**FINISHES**	**NOTES**
	X			X	CARPET	G.C. TO PROVIDE QUANTITIES TO PNC PM FOR PURCHASE
	X			X	CARPET ADHESIVE	
0	**1**	**2**	**3**	**4**	**SPECIALTY**	**NOTES**
	X		X		FIXED / DEMOUNTABLE INTERIOR OFFICE STOREFRONT PARTITIONS	G.C. TO COORDINATE INSTALL. G.C. TO COORDINATE HOLD-TO DIMENSION WITH VENDOR, CONDUITS BY G.C.
0	**1**	**2**	**3**	**4**	**EQUIPMENT**	**NOTES**
	X		X		SECURITY DEVICES	DEVICE AND FINAL TERMINATION BY OWNER. CABLING AND CONDUIT BY E.C. LV SECURITY WIRING BY PNC PREFERRED LV CONTRACTOR
	X		X		BANKING EQUIPMENT	DEVICE AND FINAL TERMINATION BY EQUIPMENT VENDOR
		X		X	STAFF LOUNGE AND KITCHENETTE EQUIPMENT	REFER TO SCHEDULE ON SHEET ID300. THIS INCLUDES REMOVEABLE TRASH CANS IN ALL TRASH CABINETS.
	X		X		OFFICE EQUIPMENT	COORDINATED BY PNC CDS
	X		X		SPEAKERS MUZAK	CABLE ROUGH, VOLUME CONTROLS AND SPEAKER PLACEMENT BY MOOD MUZAK VENDOR
	X		X		SECURITY	COORDINATE LOCATIONS AND LOW VOLTAGE REQUIREMENTS WITH PNC LOW VOLTAGE VENDOR
	X		X		LOCKERS	PNC FURNITURE VENDOR TO PROVIDE AND INSTALL.
0	**1**	**2**	**3**	**4**	**FURNISHINGS**	**NOTES**
	X		X		FURNITURE	G.C. TO COORDINATE WITH PNC VENDOR
		X		X	SHELVING	SEE LOCATIONS ON ON SHEET ID300
		X		X	BANKING EQUIPMENT	
0	**1**	**2**	**3**	**4**	**TELECOMMUNICATIONS**	**NOTES**
	X		X		TELEPHONE SYSTEM AND HANDSETS	WIRING AND MOUNTING BY PNC LOW VOLTAGE VENDOR. FINAL TERMINATION BY PNC CDS AND PNC LOW VOLTAGE VENDOR
0	**1**	**2**	**3**	**4**	**LIGHTING**	**NOTES**
	X			X	LIGHTING FIXTURE PACKAGE	FIXTURES AND CONTROLS SHIPPED DIRECT TO ELECTRICAL CONTRACTOR WHO WILL BE RESPONSIBLE FOR INSPECTIONS, DELIVERY TO SITE AND INSTALLATION
0	**1**	**2**	**3**	**4**	**ELECTRICAL**	**NOTES**
	X			X	SWITCH GEAR	SWITCHGEAR SHIPPED DIRECT TO ELECTRICAL CONTRACTOR WHO WILL BE RESPONSIBLE FOR INSPECTING, DELVIERY TO SITE AND INSTALLATION
		X		X	EXTERIOR BUILDING ELECTRICAL	COORDINATE WITH OWNER SIGNAGE REQUIREMENTS
		X		X	SECURITY DEVICE AND EQUIPMENT POWER	COORDINATE WITH PNC VENDOR
	X			X	STORM SWITCH	STORM SWITCH SHIPPED DIRECT TO ELECTRICAL CONTRACTOR WHO WILL BE RESPONSIBLE FOR INSPECTING, DELIVERY TO SITE AND INSTALLATION
0	**1**	**2**	**3**	**4**	**MECHANICAL**	**NOTES**
	X			X	ROOF TOP UNITS	HVAC UNITS SHIPPED DIRECT TO MECHANICAL SUBCONTRACTOR WHO WILL BE RESPONSIBLE FOR DELIVERY TO SITE AND INSTALLATION
		X		X	BI-POLAR IONIZATION	PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR
		X		X	ALL OTHER MECHANICAL EQUIPMENT, FILTERS, AND ACCCESSORIES	ALL OTHER MECHANICAL EQUIPMENT PROVIDED AND INSTALLED BY GC
		X		X	CONTROLS	ALL HVAC CONTROLS PROVIDED AND INSTALLED BY GC
	X	X		X	EQUIPMENT START UP	COORDINATED WITH OWNER
0	**1**	**2**	**3**	**4**	**LOW VOLTAGE**	**NOTES**
	X		X		SECURITY DEVICE AND EQUIPMENT WIRING	OWNER PREFERRED VENDOR. DEVICES SUPPLIED AND TERMINATION BY OWNER
	X		X		CCTV AND ALARM WIRING	OWNER PREFERRED VENDOR. DEVICES SUPPLIED AND TERMINATION BY OWNER
		X		X	TELECOM: VOICE AND DATA	OWNER PREFERRED VENDOR. DATA CABLING BY PNC LOW VOLTAGE VENDOR. CONDUIT BY G.C.
		X	X		RTU AND MECHANICAL CONTROL WIRE	CONTROLS SUPPLIED AND TERMINATION BY G.C.
		X		X	LIGHTING CONTROL WIRING	ELECTRICAL CONTRACTOR FOR ALL 0-10V DIMMING AND LIGHTING CONTROLS
		X		X	EXTERIOR DOOR CONTROLS WIRE, STANLEY TOGGLE SWITCH AND CHIME	REFERENCE SLIDING DOOR / CARD READERS/ SECURITY INTERFACE DETAIL
			X		SPEAKERS WIRE AND ROUGH-IN	DEVICES SUPPLIED AND TERMINATION BY OWNER TO COORDINATE SPEAKER AND PROFUSION DEVICE LOCATIONS WITH MOOD MEDIA
		X		X	EXTERIOR DOOR CONTROL - CHIME AND DOORBELL	BY G.C. AND INSTALLED BY G.C.
0	**1**	**2**	**3**	**4**	**THIRD PARTY TESTING**	**NOTES**
	X				CONSTRUCTION MATERIALS TESTING	INCLUDES SOIL TESTING AND CONCRETE TESTING FOR FOUNDATION ONLY
	X				SPECIAL INSPECTIONS	INCLUDES MASONRY, CONNECTIONS, WELD INSPECTIONS, AND CURTAIN WALL TO BE COORDINATED WITH PNC.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

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PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: HAW
DRAWN BY: CJ
DESIGNED BY: RSH
PROJECT NUMBER:
524-0368-028

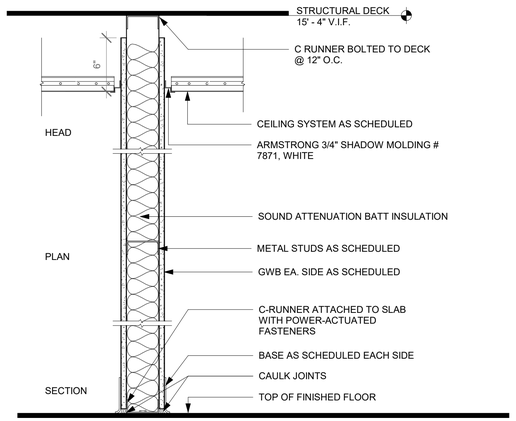
SHEET TITLE:

RESPONSIBILITY MATRIX

SHEET ID:

G004

PROJECT STATUS:
PERMIT DOCUMENTS



NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
A2	3 5/8"	20	16"	5/8"	4 7/8"	YES	-	-	45
A6	6"	20	16"	5/8"	7 1/4"	YES			45
A8	8"	20	16"	5/8"	7 1/4"				45

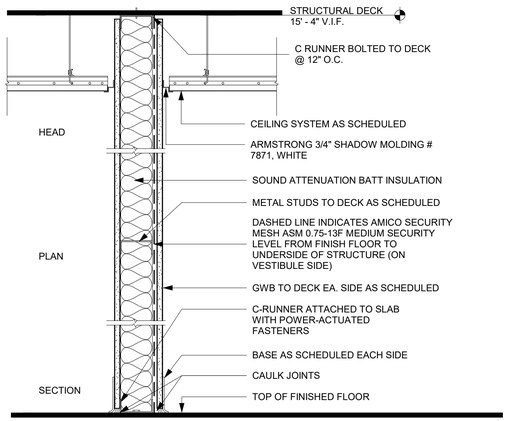
PARTITION TYPE 'A' (BUILDING STANDARD)

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
E2	3 5/8"	20	16"	5/8"	4 7/8"	YES	-	-	45

PARTITION TYPE 'E'

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
H2	3 5/8"'	20	16"	5/8"	4 7/8"	YES	-	-	45

PARTITION TYPE 'H'



NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
B2	3 5/8"	20	16"	5/8"	4 7/8"	YES	-	-	45

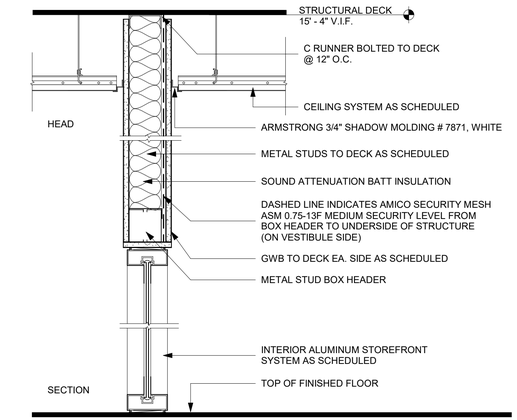
PARTITION TYPE 'B'

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
F2	3 5/8"	20	16"	5/8"	4 7/8"	YES	-	-	45
F4	2 1/2"	20	16"	5/8"	2 1/2"	NO	-	-	-

PARTITION TYPE 'F'

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
I2	3 5/8"'	20	16"	5/8"	4 7/8"	YES	-	-	45

PARTITION TYPE 'I'



NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
C2	3 5/8"'	20	16"	5/8"	4 7/8"	YES	-	-	45

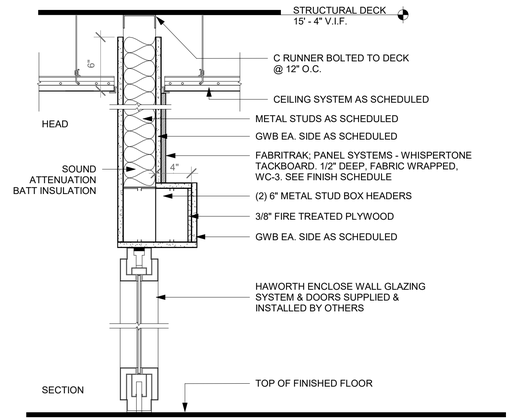
PARTITION TYPE 'C'

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
G2	3 5/8"	20	16"	5/8"	4 1/4"	YES	-	-	45

PARTITION TYPE 'G'

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
K2	3 5/8"	20	16"	5/8"	4 7/8"	YES	-	-	45

PARTITION TYPE 'K'



NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
D2	3 5/8"'	20	16"	5/8"	4 7/8"	YES	-	-	45

PARTITION TYPE 'D'

NUMBER	STUD SIZE	STUD GA.	STUD SPACING	GYPSUM BOARD	WALL THICKNESS	SOUND ATTENUATION INSULATION	FIRE RATING	U.L. RATING	S.T.C. RATING
J2	3 5/8"	20	16"	5/8"	4 7/8"	YES	-	-	45
J6	6"	20	16"	5/8"	7 1/4"	YES	-	-	45

PARTITION TYPE 'J'

PARTITION TYPE NOTES

1. USE GYPSUM WALLBOARD ACCESSORIES AS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS. SUBSTITUTIONS MUST HAVE APPROVAL OF THE ARCHITECT PRIOR TO INSTALLATION.
2. LOCATIONS WHERE SCHEDULED PARTITION TO TOP TRACK ATTACHES TO CEILING GRID. SHIM AS DIRECTED BY BUILDING MANAGER WITH ATTACHMENTS AT 48" MINIMUM INTERVALS.
3. ALL NEW WALLS OVER 12'-0" IN LENGTH BETWEEN INTERSECTING PARTITIONS SHALL BE BRACED TO STRUCTURE TO RESIST LATERAL LOADING.
   SOUND ATTENUATION INSULATION: UNLESS SPECIFIED OTHERWISE IN THE FOLLOWING PARAGRAPHS, EITHER MINERAL WOOL OR GLASS FIBER INSULATION WILL BE ACCEPTABLE. INSULATION SHALL BE EITHER 6 P.C.F., BLANKET OR BATT TYPE IN WIDTH REQUIRED TO FILL THE SPACES. FRICTION FIT SNUGLY IN PLACE BETWEEN THE STUDS USED IN PARTITIONS.
4. ALL INSULATION IN WALLS TO BE 25 FLAME SPREAD - 450 SMOKE DEVELOPED.
5. G.C. IS TO PROVIDE FIRE-TREATED PLYWOOD AND/OR METAL BLOCKING IN WALL BEHIND MILLWORK/CABINETRY/SHELVING/ DOOR & WALL CLASS A STOPS FOR MOST SECURE METHOD OF ANCHORING, AS WELL AS BEYOND WALL MOUNTED FURNITURE WITHIN OFFICES.

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	SLC
DRAWN BY:	PAF
DESIGNED BY:	RS&H

PROJECT NUMBER:
524-0368-028

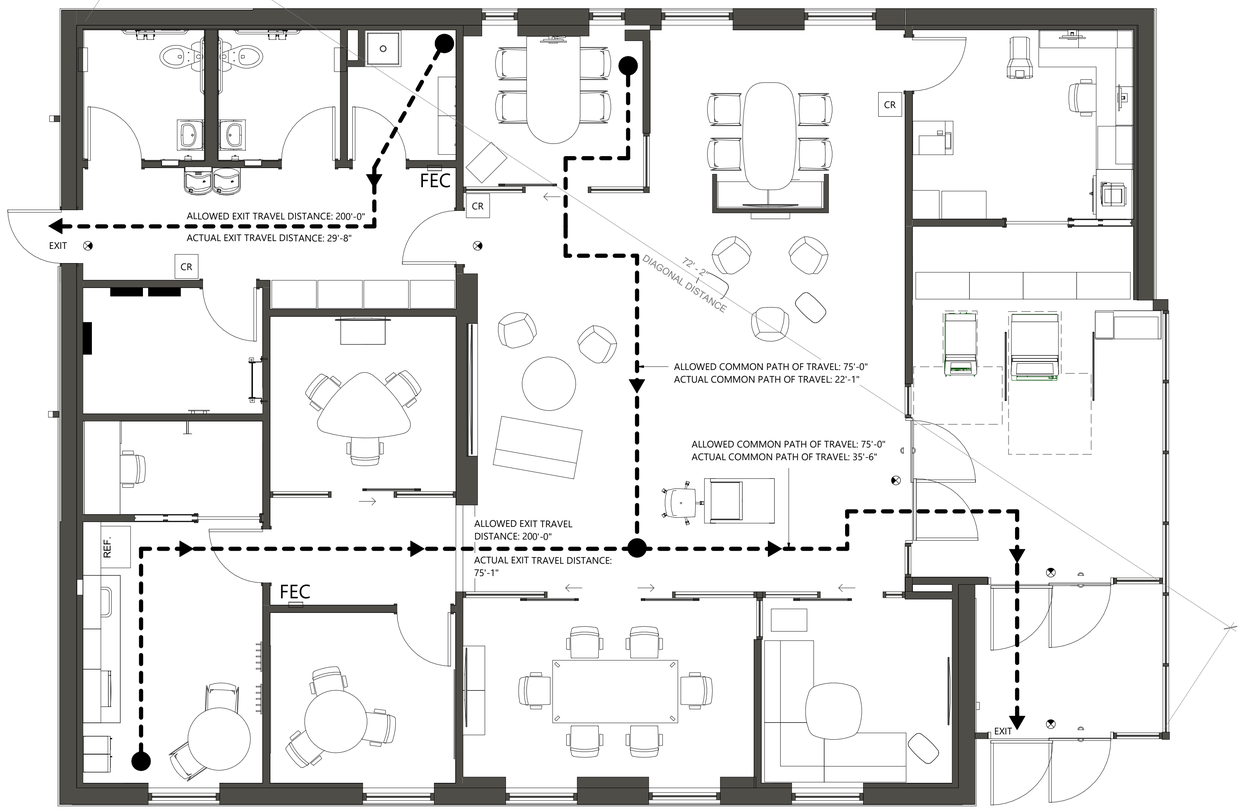
SHEET TITLE:

PARTITION TYPES

SHEET ID:

G005

PROJECT STATUS:
PERMIT DOCUMENTS



T.N.

2 G101 LIFE SAFETY
1/4" = 1'-0"

FIRE PROTECTION NOTES

1. REFER TO RELATED ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DOCUMENTS.
2. EXIT LIGHTS AND EMERGENCY LIGHTING TO BE INSTALLED PER CODE REQUIREMENTS. LOCATIONS TO BE APPROVED BY ARCHITECT VIA SHOP DRAWING SUBMITTAL. LOCATIONS ON ARCHITECTURAL DRAWINGS ARE FOR DESIGN INTENT ONLY.
3. COORDINATE EXIT LIGHTS WITH GENERAL LIGHT FIXTURES.

LIFE SAFETY NOTES

1. INTERIOR WALLS AND CEILING FINISH REQUIREMENTS FOR BUSINESS OCCUPANCY SHALL BE CLASS B PER IBC TABLE 803.11 FOR EXIT ENCLOSURES AND EXIT PASSAGEWAYS, CLASS C FOR CORRIDORS, AND CLASS C FOR ROOMS AND ENCLOSED SPACES.
2. MEANS OF EGRESS PER IBC 1001.
3. EXIT SIGNS PER IBC 1013.
4. EXIT ACCESS TRAVEL DISTANCE SHALL NOT BE MORE THAN 200 FEET WITHOUT AUTOMATIC SPRINKLER SYSTEM PER IBC TABLE 1017.2.
5. PORTABLE FIRE EXTINGUISHERS IN BUSINESS OCCUPANCIES WITH QUICK RESPONSE SPRINKLERS SHALL BE REQUIRED AS NOTED PER IBC SECTION 906.
6. FIRE EXTINGUISHERS DURING CONSTRUCTION PER IBC 3309.

PROJECT SUMMARY

NEW GROUND UP BANK BRANCH TO INCLUDE: LOBBY WITH 24-HOUR ACCESS TO 2 ATM(S) AND AFTER HOUR DEPOSITORY. THE REMAINDER OF NEW BRANCH WILL BE ACCESSIBLE DURING NORMAL BANKING HOURS AND WILL INCLUDE: WAITING AREA, COLLABORATIVE SPACE, CONFERENCE ROOM, HUB, FLEX, GATHERING, AND CHAT LOUNGE; OFF-STAGE, WORK AND CASH ROOMS FOR PRIVATE BANK WORK; BREAK ROOM FOR BANK STAFF; AND, STORAGE, JANITOR'S, ELECTRICAL/IT ROOM, AND RESTROOMS. ALL ASSOCIATED STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL, AND EXTERIOR FACADE SYSTEMS TO BE INSTALLED TO SUPPORT NEW CONSTRUCTION AND EQUIPMENT. NEW METAL CANOPIES ARE INCLUDED.

APPLICABLE CODES

2018 INTERNATIONAL BUILDING CODE, IBC
2018 INTERNATIONAL MECHANICAL CODE, IMC
2018 INTERNATIONAL PLUMBING CODE, IPC
2018 INTERNATIONAL FUEL GAS CODE, IFGC
2018 INTERNATIONAL ENERGY CONSERVATION CODE, IECC
2018 INTERNATIONAL FIRE CODE, IFC
2017 NFPA 70 - NATIONAL ELECTRICAL CODE
ICC/ANSI 117.1-2009 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

OCCUPANCY COUNTS + EGRESS

OCCUPANT LOAD: GROUP B - BUSINESS OCCUPANT LOAD FACTORS

BUSINESS AREAS = 1 OCCUPANT / 150 SF GROSS
2,728 SF X 1 OCCUPANT / 150 SF = 18.2 = 19 OCCUPANTS

EXIT ACCESS DOORS:
25 OCCUPANTS x 0.2"/ 1 OCCUPANT = 5" REQUIRED EXIT WIDTH

2 EXIT DOORS = 110" EXIT WIDTH PROVIDED
1 @ 76" CLEAR WIDTH
1 @ 34" CLEAR WIDTH

CODE SUMMARY

GROUND UP BUILDING:

TENANT OCCUPANCY:	GROUP B - BUSINESS
CONSTRUCTION TYPE:	TYPE II-B
CLASSIFICATION OF WORK:	NEW CONSTRUCTION
SQUARE FOOTAGE:	2,728 SF
FIRE SPRINKLERS:	NO
FIRE ALARM:	NO
EMERGENCY LIGHTING:	YES
EXITS PROVIDED:	2
MAX. ALLOWED COMMON PATH OF TRAVEL:	75'
ACTUAL COMMON PATH OF TRAVEL:	37' - 5"
MAX. ALLOWED EXIT ACCESS TRAVEL DISTANCE:	200'
ACTUAL EXIT ACCESS TRAVEL DISTANCE:	75' - 1"

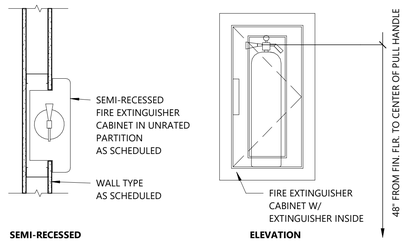
PLUMBING FIXTURE COUNT

OCCUPANCY	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
BUSINESS 25 OCCUPANTS	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1 PER 100	1
REQUIRED	2 REQUIRED	2 REQUIRED	1 REQUIRED	1 REQUIRED
TOTAL PROVIDED	2 PROVIDED	2 PROVIDED	1 PROVIDED (HI-LO UNIT)	1 PROVIDED

LEGEND

NEW WALL
TRAVEL PATH
STARTING POINT
FEC — FIRE EXTINGUISHER CABINET
EXIT LIGHT

FIRE EXTINGUISHER CABINET



SEMI-RECESSED **ELEVATION**

BASIS OF DESIGN: LARSEN'S AL2409-5R, SEMI-RECESSED, ARCHITECTURAL SERIES AND MP5-A SERIES 5 LBS CAPACITY (3A:40B:C) FIRE EXTINGUISHER WITH BRACKET.

RS&H

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PNC

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STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

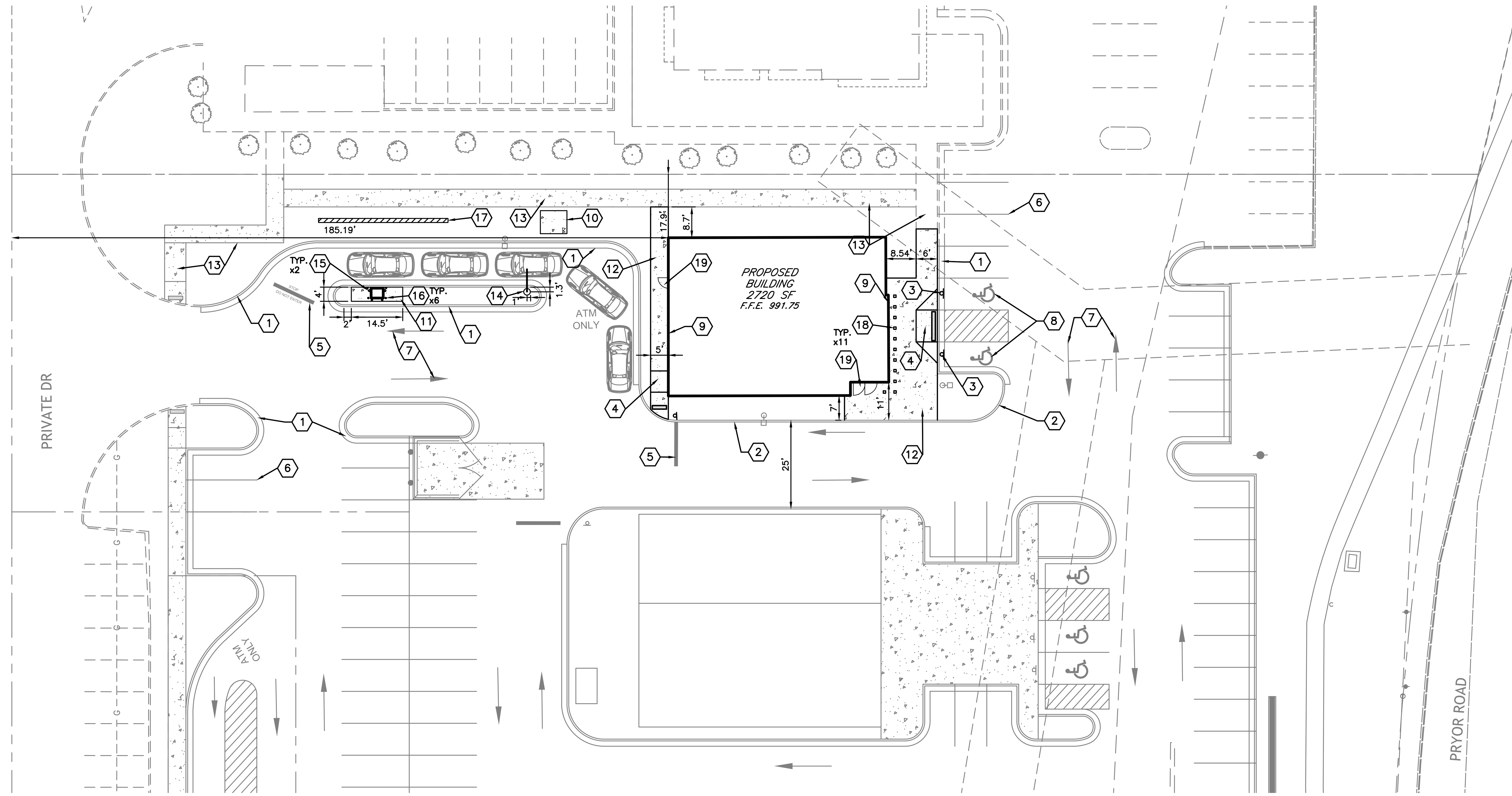
DATE ISSUED:	02/15/2022
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
524-0368-028

SHEET TITLE:
LIFE SAFETY PLAN

SHEET ID:
G101

PROJECT STATUS:
PERMIT DOCUMENTS



LEGEND

— - —	EXISTING PROPERTY BOUNDARY
- - - -	EXISTING EASEMENT
	EXISTING SIGN
	EXISTING POWER POLE
	PROPOSED SIGN
	PROPOSED CONCRETE SIDEWALK

ⓧ KEY NOTES:

1. CONCRETE CURB AND GUTTER (BY OTHERS)
2. CONCRETE BARRIER CURB (BY OTHERS)
3. ACCESSIBLE SIGNAGE, SEE SHEET C500 FOR DETAIL
4. ADA PEDESTRIAN RAMP, SEE SHEET C500 FOR DETAIL
5. 24" STOP BAR (BY OTHERS)
6. 4" WHITE STRIPING (BY OTHERS)
7. DIRECTIONAL ARROWS (BY OTHERS)
8. HANDICAP MARKINGS (BY OTHERS)
9. EXPANSION JOINT AT BUILDING, SEE SHEET C500 FOR DETAIL
10. 8'X8' CONCRETE TRANSFORMER PAD, SEE SHEET C501 FOR DETAIL
11. CONCRETE PAD FOR ATM AND CANOPY, SEE SHEET C501 FOR DETAIL
12. CONCRETE SIDEWALK, SEE SHEET C500 FOR DETAIL
13. CONCRETE SIDEWALK (BY OTHERS)
14. PIVOTING CLEARANCE BAR, SEE SHEET C501 FOR FOUNDATION DETAIL
15. 6" BOLLARD, SEE SHEET C501 FOR DETAIL
16. 4" BOLLARD, SEE SHEET C501 FOR DETAIL
17. FIXED BARRIER TBD
18. LIGHTED SECURITY BOLLARD @ 36" O.C. SEE ARCHITECTURAL FOR DETAIL
19. SIDEWALK AT BUILDING ENTRANCE, SEE SHEET C500 FOR DETAIL

SITE NOTES:

1. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT FROM THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/CONSTRUCTION MANAGER IMMEDIATELY.
2. EXISTING SITE INFORMATION AND TOPOGRAPHIC SURVEY WAS PREPARED BY ENGINEERING AND SURVEYING SOLUTIONS, DATED SEPTEMBER 1, 2021. ANY SITE CHANGES/MODIFICATIONS MADE AFTER THIS SURVEY ARE NOT REFLECTED IN THESE PLANS. CONTRACTOR TO NOTIFY WOOLPERT, INC. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION. ITEMS INDICATED AS PER RECORDS AND OUTSIDE THE SURVEY LIMITS ARE BASED ON VARIOUS RECORD DRAWINGS PROVIDED BY THE OWNER, WOOLPERT IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES (INCLUDING THOSE LABELED PER RECORDS) PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS. INFORM ARCHITECT/ENGINEER/CONSTRUCTION MANAGER OF ANY CONFLICTS DETRIMENTAL TO THE DESIGN INTENT.
4. 48 HOURS PRIOR TO COMMENCEMENT OF DIGGING, CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES: THE MISSOURI UTILITY PROTECTION SERVICES 811, AND ALL OTHER AGENCIES THAT MAY HAVE UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS AND ARE NON-MEMBERS OF MISSOURI UNDERGROUND PROTECTION SERVICES.
5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.
6. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
7. CONTRACTOR SHALL OBTAIN A PERMIT FOR ALL CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL REGULATIONS.
8. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO COMMENCING WORK.
9. ANY WORK PERFORMED IN LEE'S SUMMIT, MISSOURI RIGHT OF WAYS SHALL BE IN ACCORDANCE WITH THE APPLICABLE LEE'S SUMMIT, MISSOURI REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS FOR THE WORK, SCHEDULE NECESSARY INSPECTIONS, AND PROVIDE THE NECESSARY TRAFFIC CONTROL MEASURES AND DEVICES, ETC., FOR WORK PERFORMED IN THE RIGHT OF WAYS.
10. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE MISSOURI DEPARTMENT FOR ENVIRONMENTAL PROTECTION FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH OWNERS REPRESENTATIVE WITH WRITTEN REPORTS. OWNER WILL OBTAIN NPDES PERMIT.
11. ALL CONSTRUCTION WORK SHALL BE DONE IN ACCORDING TO THE CITY OF LEE'S SUMMIT DESIGN & CONSTRUCTION MANUAL. WHEN IN CONFLICT WITH PLANS, THE CITY REQUIREMENTS SHALL PREVAIL.
12. ALL WORK PERFORMED BY THE CONTRACTOR SHALL CONFORM TO THE LATEST REGULATIONS OF THE AMERICANS WITH DISABILITIES ACT.
13. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
14. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVED SURFACES.
15. SITE WORK CONCRETE WALKS AND PADS SHALL HAVE A BROOM FINISH TO ALL SURFACES. SITE WORK CONCRETE SHALL BE CLASS A (4,000 PSI @ 28 DAYS) UNLESS OTHERWISE NOTED.
16. ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, CURB, LANDSCAPING, UTILITIES, AND ANY OTHER ITEMS TO REMAIN, WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
17. SITE DIMENSIONS SHOWN ARE TO THE BACK OF CURB, BUILDING, WALL, EDGE OF PAVEMENT, OR COLUMN LINE UNLESS OTHERWISE NOTED.
18. CONTRACTOR SHALL MAINTAIN ONE SET OF AS-BUILT/RECORD DRAWINGS ON-SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
19. THIS SITE LAYOUT IS SPECIFIC TO THE APPROVALS NECESSARY FOR THE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT. NO CHANGES TO THE SITE LAYOUT ARE ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. CHANGES MADE TO THE SITE LAYOUT WITHOUT APPROVAL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. CHANGES INCLUDE BUT ARE NOT LIMITED TO, INCREASED IMPERVIOUS PAVEMENT, ADDITION/DELETION OF PARKING SPACES, MOVEMENT OF CURB LINES, CHANGES TO DRAINAGE STRUCTURES AND PATTERNS, LANDSCAPING, ETC.
20. SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE MISSOURI MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
21. CONCRETE WALKS SHALL BE 4" THICK OVER 4" COMPACTED GRAVEL WITH CONTROL JOINTS EQUALLY SPACED AT NO MORE THAN 5' ON CENTER, EXPANSION JOINTS AT NO MORE THAN 50' ON CENTER. ALL SIDEWALKS ARE TO BE BROOM FINISHED.

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

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MO LICENSE NOS. 2003019618 * 2003019636

PROJECT TITLE:
PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
WEST PRYOR DEVELOPMENT, LOT 9A NEW PRYOR RD. & NW SUMMIT WOODS XING, LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
KELLY ... NUMBER E29017
REGISTERED PROFESSIONAL ENGINEER
2.15.22

REVISIONS

NO.	DESCRIPTION	DATE

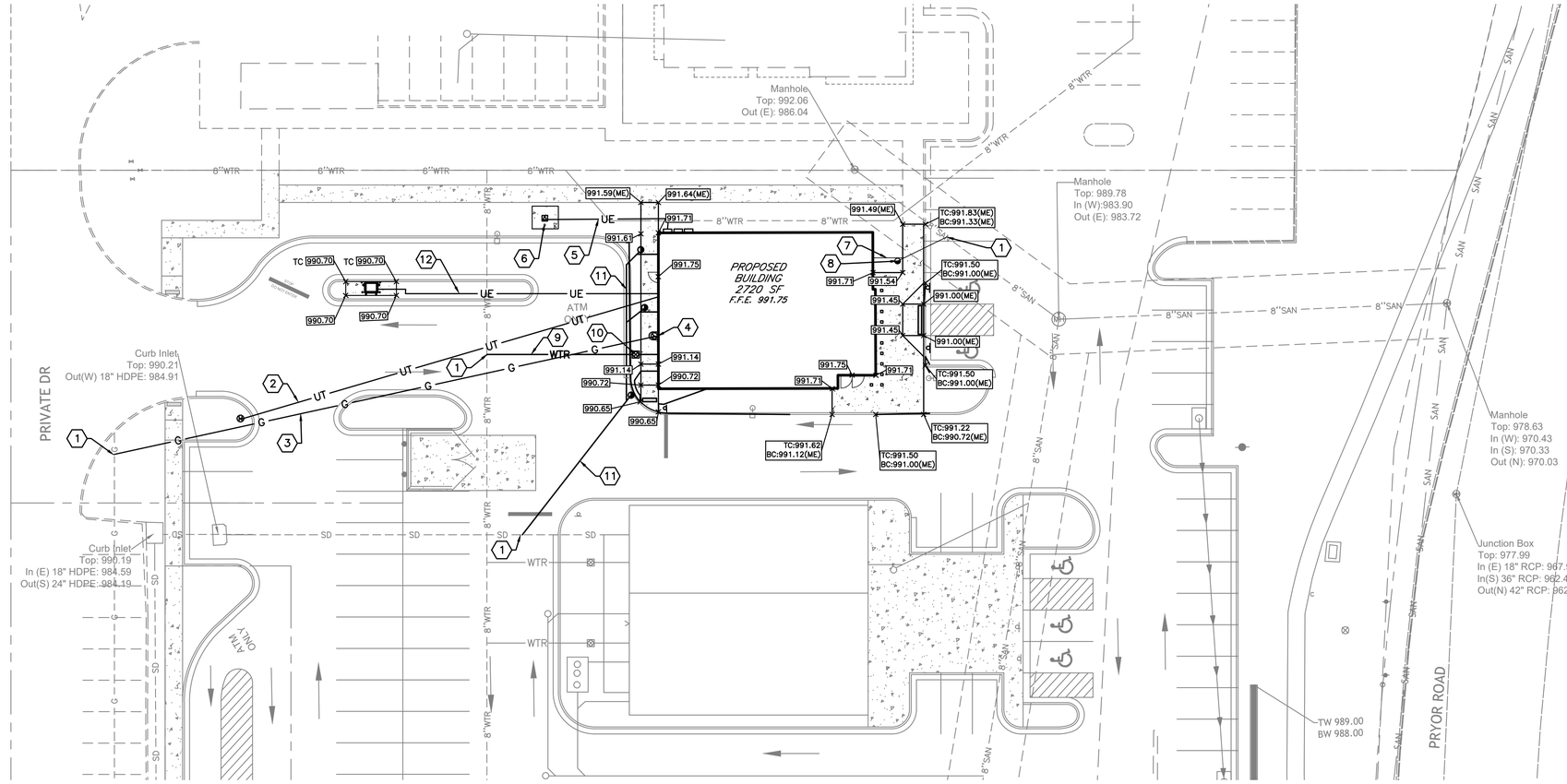
DATE ISSUED:	02/15/2022
REVIEWED BY:	MTF
DRAWN BY:	TAB
DESIGNED BY:	TAB

PROJECT NUMBER:
5240368028

SHEET TITLE:
SITE PLAN

SHEET ID:
C200

PROJECT STATUS:
PERMIT DOCUMENTS



LEGEND

799	EXISTING 1' CONTOUR
800	EXISTING 5' CONTOUR
799	PROPOSED 1' CONTOUR
800	PROPOSED 5' CONTOUR
XXX.XX	SPOT ELEVATION
ME	MATCH EXISTING GRADE
	EXISTING PROPERTY BOUNDARY
	EXISTING EASEMENT
SD	EXISTING STORM
UE	EXISTING UNDERGROUND ELECTRIC
OE	EXISTING OVERHEAD ELECTRIC
UT	EXISTING UNDERGROUND TELEPHONE
WTR	EXISTING WATER
G	EXISTING GAS
	EXISTING CATCH BASIN/CURB INLET
	EXISTING SIGN
	EXISTING POWER POLE
	PROPOSED PARKING SPACE BY OTHERS
	PROPOSED SIGN
	PROPOSED SANITARY BY OTHERS
	PROPOSED STORM BY OTHERS
WTR	PROPOSED WATER
UE	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED ELECTRIC TRANSFORMER
UT	PROPOSED UNDERGROUND TELEPHONE
	PROPOSED HANDHOLE
	PROPOSED EASEMENT BY OTHERS
	PROPOSED CURB INLET
	PROPOSED SANITARY MANHOLE BY OTHERS
	PROPOSED SANITARY CLEANOUT
	PROPOSED WATER METER
	PROPOSED FIRE HYDRANT BY OTHERS
	PROPOSED GAS METER

KEYNOTES

1. CONNECT TO EXISTING UTILITY PER AGENCY REQUIREMENTS
2. PRIMARY TELEPHONE, INTERNET CONNECTION AND CABLE TV 2–4" CONDUITS
3. NATURAL GAS LINE
4. NATURAL GAS METER, COORDINATE WITH MISSOURI GAS ENERGY
5. SECONDARY ELECTRIC SERVICE
6. TRANSFORMER AND PAD, COORDINATE WITH EVERGY MISSOURI WEST
7. SANITARY LATERAL – 23 LF 6" SDR 35
8. PLUMBING – SANITARY CLEANOUT
9. DOMESTIC WATER – 2" WATERLINE SUPPLY
10. WATER METER PIT
11. PROPOSED 6" PVC ROOF DRAIN CONNECTION AT 1.0% MIN. CONNECT TO EXISTING STORM SEWER
12. 2 3" ELECTRICAL CONDUIT FOR ATM

NOTES:

1. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
2. BEFORE INSTALLATION OF STORM SEWER, SANITARY SEWER, ELECTRICAL CONDUIT, WATERLINE OR ANY OTHER UTILITY, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ARCHITECT/ENGINEER/CONSTRUCTION MANAGER OF ANY CONFLICTS. THE DESIGN ENGINEER WILL BE HELD HARMLESS IF NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK.
4. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. RELOCATE EXISTING UTILITIES AS INDICATED, OR AS NECESSARY FOR CONSTRUCTION.
5. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT. FIELD ADJUSTMENT OF FINAL GRADES MAY BE NECESSARY. INSTALL ALL UTILITIES PRIOR TO INSTALLATION OF PAVED SURFACES.
6. ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALK, CURB, LANDSCAPING, UTILITIES, AND ANY OTHER ITEMS TO REMAIN, WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
7. CONTRACTOR SHALL MAINTAIN ONE SET OF AS–BUILT/RECORD DRAWINGS ON–SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.
8. REFER TO THE ARCHITECTURAL, PLUMBING & ELECTRICAL DRAWINGS FOR EXACT DIMENSIONS AND LOCATIONS OF UTILITY SERVICE ENTRY LOCATIONS AND PRECISE BUILDING DIMENSIONS.

SITE EARTHWORK NOTES

1. ALL PROPOSED GRADES SHOWN ARE FINAL GRADES, TOP OF GROUND LEVEL, OR TOP OF PAVEMENT, OR GRATE ELEVATION AT THE DRAWDOWN POINT, UNLESS INDICATED OTHERWISE.
2. SITE BUILDING PAD EXCAVATION AND CONSTRUCTION TO BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. BUILDING PAD PREPARATION SHALL BEGIN BY CLEARING AND REMOVAL OF UNSUITABLE MATERIAL FROM PAD SITE, THEN PLACEMENT AND COMPACTION OF BACKFILL MATERIAL PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
3. ALL FILL UNDER PAVEMENT SHALL BE COMPACTED TO THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
4. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
5. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDERCUT AND REPLACEMENT, IF REQUIRED, AND COMPACTION.
6. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
7. PLACE TOPSOIL OVER THE SUBGRADE OF UNPAVED, DISTRIBUTED AREAS TO A DEPTH INDICATED ON THE LANDSCAPE PLANS (4" MINIMUM).
8. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
9. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.

STORM DRAINAGE NOTES

1. DISTANCES SHOWN ON PIPING ARE HORIZONTAL DISTANCES FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE, UNLESS OTHERWISE NOTED, CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE INSTALLATION, INSPECTION, TESTING AND FINAL ACCEPTANCE OF ALL NEW STORMWATER MANAGEMENT FACILITIES CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE REGULATING AGENCIES CONCERNING INSTALLATION, INSPECTION AND APPROVAL OF THE STORM DRAINAGE SYSTEM CONSTRUCTION.
3. ALL STORMWATER MANAGEMENT FACILITIES, INCLUDING COLLECTION AND CONVEYANCE STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES AND REGULATIONS.
4. FOR EXACT LOCATION OF DOWNSPOUTS AND ROOF DRAINS, CONTRACTOR IS TO COORDINATE WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
5. ALL PROPOSED STORM SEWERS, SURFACE OR OTHER DRAINAGE FACILITIES ARE TO BE PRIVATE AND MAINTAINED BY THE OWNER.
6. THE CONTRACTOR IS TO CONSTRUCT CURBS, CATCH BASINS, DOWNSPOUTS, PIPING AND CONNECTION ETC. AS REQUIRED TO CONVEY THE ROOF AND PAVED SURFACE DRAINAGE TO THE DETENTION BASIN.
7. STORM SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL–AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.

UTILITY NOTES

1. ALL PROPOSED UTILITY LINES AND EXTENSIONS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT SPECIFICATIONS. CONTRACTOR SHALL COORDINATE UTILITY DISCONNECTIONS WITH THE APPROPRIATE AGENCIES.
2. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE EXISTING UTILITIES CONFLICTING WITH IMPROVEMENTS SHOWN HEREON IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
3. MAINTAIN MINIMUM 10–FOOT HORIZONTAL AND MINIMUM 18–INCH VERTICAL SEPARATION BETWEEN SANITARY SEWER, STORM SEWER AND WATER SUPPLY LINE, UNLESS OTHERWISE INDICATED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. INSTALL UTILITIES PRIOR TO PAVEMENT CONSTRUCTION.
5. ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED.
6. SANITARY SEWER SHALL BE PVC–SDR 35 PER ASTM D–3034 OR APPROVED EQUAL (CONFORMING TO CITY OF LEE'S SUMMIT WATER UTILITIES RULES AND REGULATIONS) INSTALLED AT A MINIMUM SLOPE OF ONE PERCENT (1.00%) UNLESS OTHERWISE NOTED. SANITARY SERVICE SHALL BE INSTALLED AT A MINIMUM DEPTH OF FOUR FEET (4') UNLESS OTHERWISE NOTED. A MINIMUM OF 18" CLEARANCE SHALL BE MAINTAINED AT ALL WATERLINE & STORM SEWER CROSSINGS. SANITARY SERVICE JOINTS SHALL CONFORM TO ASTM D–3212.
7. SANITARY SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL–AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
8. ROOF DRAINS, FOUNDATION DRAINS AND ALL OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEMS ARE PROHIBITED.
9. ADJUST ALL EXISTING UTILITY SURFACE FEATURES INCLUDING BUT NOT LIMITED TO CASTINGS, VALVE BOXES, PEDESTALS, CLEANOUTS, ETC. TO MATCH PROPOSED FINISHED GRADES, UNLESS OTHERWISE INDICATED.
10. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL IMPROVEMENTS. INCLUDE AT LEAST TWO DIMENSIONS TO EACH VALVE AND MANHOLE FROM KNOWN SITE FEATURES. DRAWINGS SHALL INCLUDE HORIZONTAL AND VERTICAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES ENCOUNTERED.
11. MECHANICAL/ELECTRICAL CONTRACTORS SHALL BRING ALL UTILITIES 5' OUTSIDE BUILDING WALL. COORDINATE WITH CONSTRUCTION MANAGER/ARCHITECT/ENGINEER/OWNER.
12. ALL WATERLINE CROSSINGS SHALL MAINTAIN A VERTICAL SEPARATION OF 18" MINIMUM. SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" BELOW WATERLINE AT ALL CROSSINGS. WATERLINE SHALL BE LOCATED A MINIMUM OF 10' HORIZONTALLY FROM ANY SANITARY SEWER OR STORM SEWER. ALL MEASUREMENTS SHALL BE TAKEN FROM OUTSIDE OF SEWER PIPE TO THE OUTSIDE OF WATERLINE PIPE. ONE FULL LENGTH OF WATERLINE PIPE SHALL BE LOCATED AT ALL CROSSINGS TO ENABLE BOTH JOINTS TO BE LOCATED AS FAR FROM SEWER AS POSSIBLE.
13. ALL WATER SERVICE PIPE, 2" AND SMALLER, SHALL BE K SOFT COPPER FROM WATERMAIN THRU CURB STOP; K SOFT COPPER OR LEE'S SUMMIT WATER UTILITIES APPROVED POLYTUBING FROM CURB STOP THRU METER SETTING IN BUILDING.
14. WATERLINE IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL–AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE

UTILITY CONTACTS

NATURAL GAS SERVICE

SPIRE
KATIE DARNELL
816–969–2247
Katie.darnell@spireenergy.com

ELECTRIC SERVICE

EVERGY
NATHAN MICHAEL
913–347–4310
Nathan.michael@kcpl.com

WATER/SANITARY SEWER SERVICE

WATER UTILITIES DEPARTMENT
1200 SE HAMBLEN ROAD
LEE'S SUMMIT, MO 64081
JEFF THORN
816–969–1900
jeff.thorn@cityofls.net

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www.rsandh.com
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:

WEST PRYOR DEVELOPMENT, LOT 9A NEW PRYOR RD. & NW SUMMIT WOODS XING, LEE'S SUMMIT, MO 64081

PROJECT
LEE'S SU
WEST PRYOR DEV
9A
NEW PRYOR RD
WOODS
LEE'S SUMM

STATE OF MISSOURI
KELLY A. CRUMPLAR
NUMBER A229017
REGISTERED PROFESSIONAL ENGINEER
2/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	MTF
DRAWN BY:	TAB
DESIGNED BY:	TAB
PROJECT NUMBER:	5240368028

SHEET TITLE:

GRADING AND UTILITY PLAN

SHEET ID:

C300

PROJECT STATUS:

PERMIT DOCUMENTS

Layout Tab Name: C300 GRADING AND UTILITY PLAN, Images: SBB B&W Stocked Logo.jpg: 524–0368–028_PNCMOLeesSummit_A_R22_CENTRAL–PNC–Bank–logo–6269117.png: , Xrefs: 82468–p.dwg: 82468TBLK.dwg
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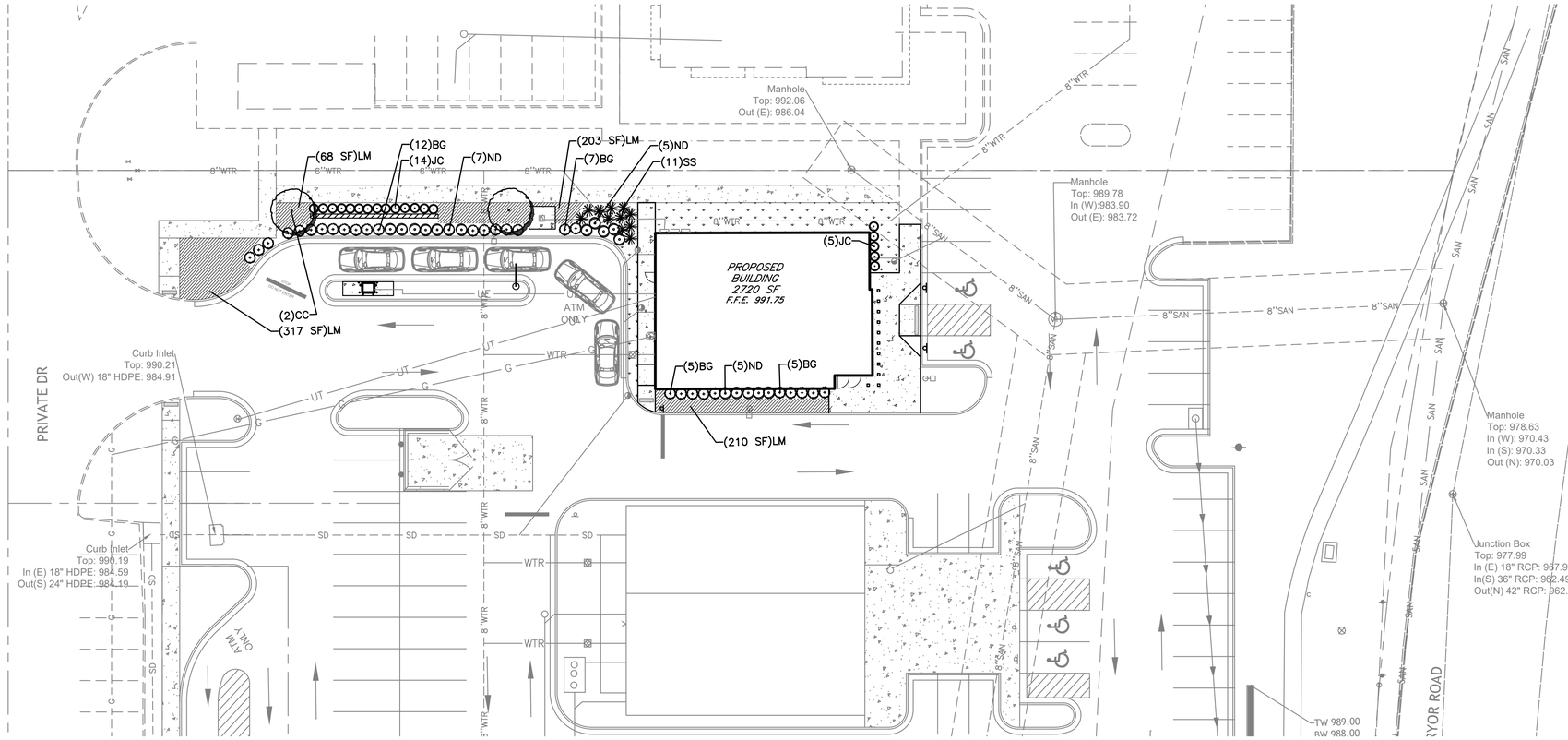
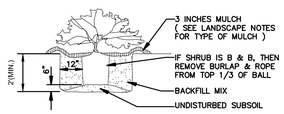
W:\Srvln\DE\Dayton\Clients\PNC Bank\082468 Lees Summit, MO\4.0 Disciplines\Civil\Cadd\Cd\82468–GRA–UTL.dwg Plotted By:Burchett, Trent Plotted:February 15, 2022, 11:27:15 AM



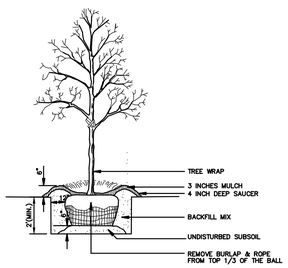
LANDSCAPE NOTES

1. EXISTING SITE INFORMATION/TOPOGRAPHIC SURVEY WAS PREPARED BY ENGINEERING AND SURVEYING SOLUTIONS, DATED SEPTEMBER 1, 2021.
2. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET WITHIN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
3. LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES, PRIOR TO DIGGING, IS RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
4. PRIOR TO INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUBGRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOPSOIL PROVIDED BY GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS. WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR AND/OR CONSTRUCTION MANAGER.
5. GENERAL AND LANDSCAPE CONTRACTOR ARE RESPONSIBLE FOR PROTECTING EXISTING TREES FROM DAMAGE DURING CONSTRUCTION. GENERAL CONTRACTOR TO INSTALL TREE PROTECTION FENCING PRIOR TO ANY SITE WORK.
6. ALL SHRUB AND GROUNDCOVER BEDS TO BE MULCHED WITH A MINIMUM OF 3 INCHES OF CLEAN SHREDDED HARDWOOD MULCH.
7. PLANTING HOLES TO BE DUG A MINIMUM OF TWICE THE WIDTH AND 6–12 INCHES DEEPER THAN THE SIZE OF THE ROOT BALL OF BOTH SHRUB AND TREE. AMEND BACKFILL WITH TOPSOIL MIX. BACKFILL AND TAMP BOTTOM OF HOLE PRIOR TO PLANTING SO TOP OF ROOT BALL DOES NOT SETTLE BELOW SURROUNDING GRADE.
8. TOPSOIL MIX TO BE 4 PARTS SCREENED TOPSOIL AND 1 PART ORGANIC MATERIAL (i.e. NATURE'S HELPER OR PRO MIX).
9. EXISTING GRASS IN PROPOSED PLANTING AREAS TO BE REMOVED AND AREA TO BE HAND RAKED TO REMOVE ALL ROCKS AND DEBRIS LARGER THAN 1 INCH IN DIAMETER PRIOR TO PLANTING SHRUBS.
10. SOIL TO BE TESTED TO DETERMINE FERTILIZER AND LIME REQUIREMENTS. LIME AND FERTILIZER TO BE DISTRIBUTED PRIOR TO LAYING SOD. ALL DISTURBED AREAS (INCLUDING RIGHT-OF-WAYS) NOT RECEIVING PLANTINGS TO RECEIVE 4 INCHES OF TOPSOIL AND SODDED.
11. ALL CHANGES TO DESIGN AND/OR PLANT SUBSTITUTIONS TO BE AUTHORIZED BY LANDSCAPE ARCHITECT.
12. ALL PARKING ISLANDS AND AREAS BEHIND CURB TO BE BERMED UP 6"–10" WITH CLEAN FRIABLE TOPSOIL PRIOR TO PLANTING.
13. ALL LANDSCAPING SHALL BE INSTALLED IN CONFORMANCE WITH ANSI Z60.1 THE AMERICAN STANDARD FOR NURSERY STOCK, AND THE ACCEPTED STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.
14. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS INSTALLED FOR ONE FULL YEAR FROM DATE OF ACCEPTANCE BY THE OWNER. ALL PLANTS SHALL BE ALIVE AND AT A VIGOROUS RATE OF GROWTH AT THE END OF THE GUARANTEE PERIOD. THE LANDSCAPE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ACTS OF GOD OR VANDALISM.
15. ANY PLANT THAT IS DETERMINED DEAD, IN AN UNHEALTHY OR UNSIGHTLY CONDITION, LOST ITS SHAPE DUE TO DEAD BRANCHES OR OTHER SYMPTOMS OF POOR, NON-VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH THE COST OF THE REPLACEMENT INCLUDED IN THE BID OR PROPOSAL PRICE.
16. WATER THOROUGHLY TWICE IN THE FIRST 24 HOURS AND APPLY MULCH IMMEDIATELY.
17. SCREENING AND LANDSCAPING SHALL BE PROVIDED AS REQUIRED BY ARTICLE 18 OF THE ZONING ORDINANCE.
18. ALL PLANT MATERIAL SHALL BE INSTALLED ACCORDING TO THE PLANTING SPECIFICATIONS OF THE LFUCG PLANTING MANUAL.
19. SITE TO BE 100% IRRIGATED BY AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM. IRRIGATION LAYOUT PROVIDED BY DESIGN-BUILD CONTRACTOR.



SHRUB PLANTING

N.T.S.



NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

TREE PLANTING

N.T.S.

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS
EVERGREEN SHRUB						
JC	19	Juniperus chinensis 'Sea Green'	Sea Green Juniper	#3 cont.	18"ht. x 18"wd.	Full, vigorous
BG	29	Buxus x 'Glencoe'	Chicagoland Green Boxwood	#3 cont.	18"ht. x 18"wd.	Full, vigorous
ND	17	Nandina domestica 'Firepower'	Firepower Nandina	#3 cont.	18"ht. x 18"wd.	Full, vigorous
GROUNDCOVER						
LM	798 sf	Liriope muscari 'Big Blue'	Big Blue Lilyturf	#1 cont.		12" on center
GRASSES						
SS	11	Schizachyrium scoparium	Little Blue Stem	#3 cont.	18"ht. x 18"wd.	Full, vigorous
TREES						
CC	2	Carpinus caroliniana	Hornbeam	B&B	3" cal. 14'ht. 7'wd	Full, well shaped

LANDSCAPING REQUIREMENTS

LEE'S SUMMIT, MISSOURI

SUBDIVISION 3 – SECTION 8.790 – LANDSCAPE MINIMUM REQUIREMENTS

STREET FRONTAGE

PRYOR ROAD – 75'
REQUIRED:
STREET TREES 1/30' = 3
SHRUBS 1/20' = 4

PROVIDED BY OTHERS*:
ORNAMENTALS = 3
SHRUBS = 15

PRIVATE ROAD WEST – 95'
REQUIRED:
STREET TREES 1/30' = 3
SHRUBS 1/20' = 5

PROVIDED BY OTHERS*:
ORNAMENTALS = 11
SHRUBS = 10

INTERIOR PARKING

TOTAL PARKING SURFACE = 10,497 SF
REQUIRED:
5% LANDSCAPE AREA = 525 SF
PROVIDED = 871 SF

OPEN SPACE

OPEN SPACE AREA = 29,649 SF

REQUIRED TREES:
1 / 5000 SF = 6

PROVIDED TREES BY OTHERS*:
SHADE TREES = 4
ORNAMENTAL TREES = 2

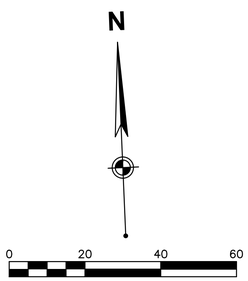
PROVIDED TREES BY PNC:
SHADE TREES = 2

REQUIRED SHRUBS:
2 / 5000 SF = 12

PROVIDED SHRUBS BY OTHERS*:
SHRUBS = 10

PROVIDED SHRUBS BY PNC:
SHRUBS = 65

*SEE SHEET C9.0 OF LOT 9 WEST PRYOR DEVELOPMENT PLANS FOR REFERENCE



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SUITE 1100, DENVER, CO 80237
303-409-9700 FAX 303-409-9701
www.rsandh.com
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:

WEST PRYOR DEVELOPMENT, LOT 9A NEW PRYOR RD. & NW SUMMIT WOODS XING, LEE'S SUMMIT, MO 64081

PROJECT
LEE'S SU
WEST PRYOR DEV
9A
NEW PRYOR RD
WOODS
LEE'S SUMM

STATE OF MISSOURI
KELLY A. CRUMPTON
NUMBER A229017
REGISTERED PROFESSIONAL ENGINEER
2.15.22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: MTF
DRAWN BY: TAB
DESIGNED BY: TAB
PROJECT NUMBER: 5240368028

SHEET TITLE:

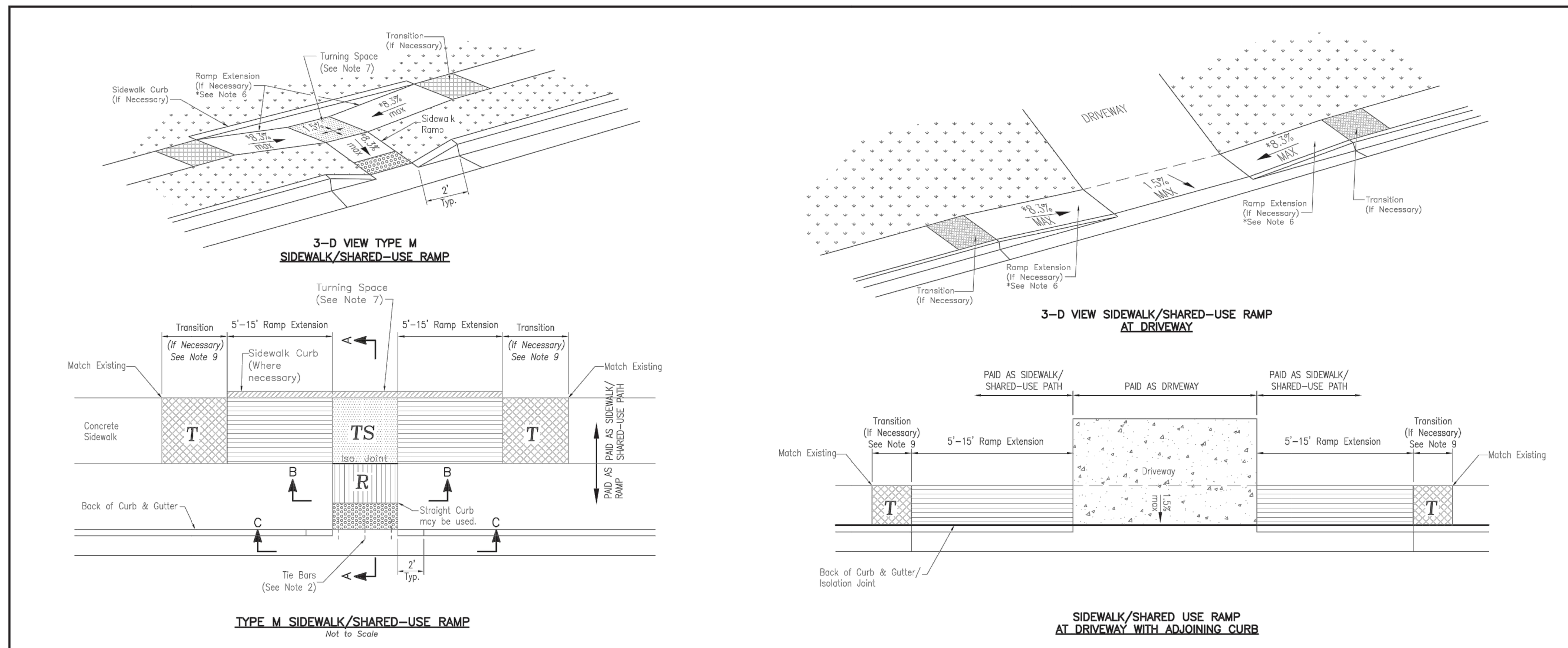
LANDSCAPE PLAN

SHEET ID:

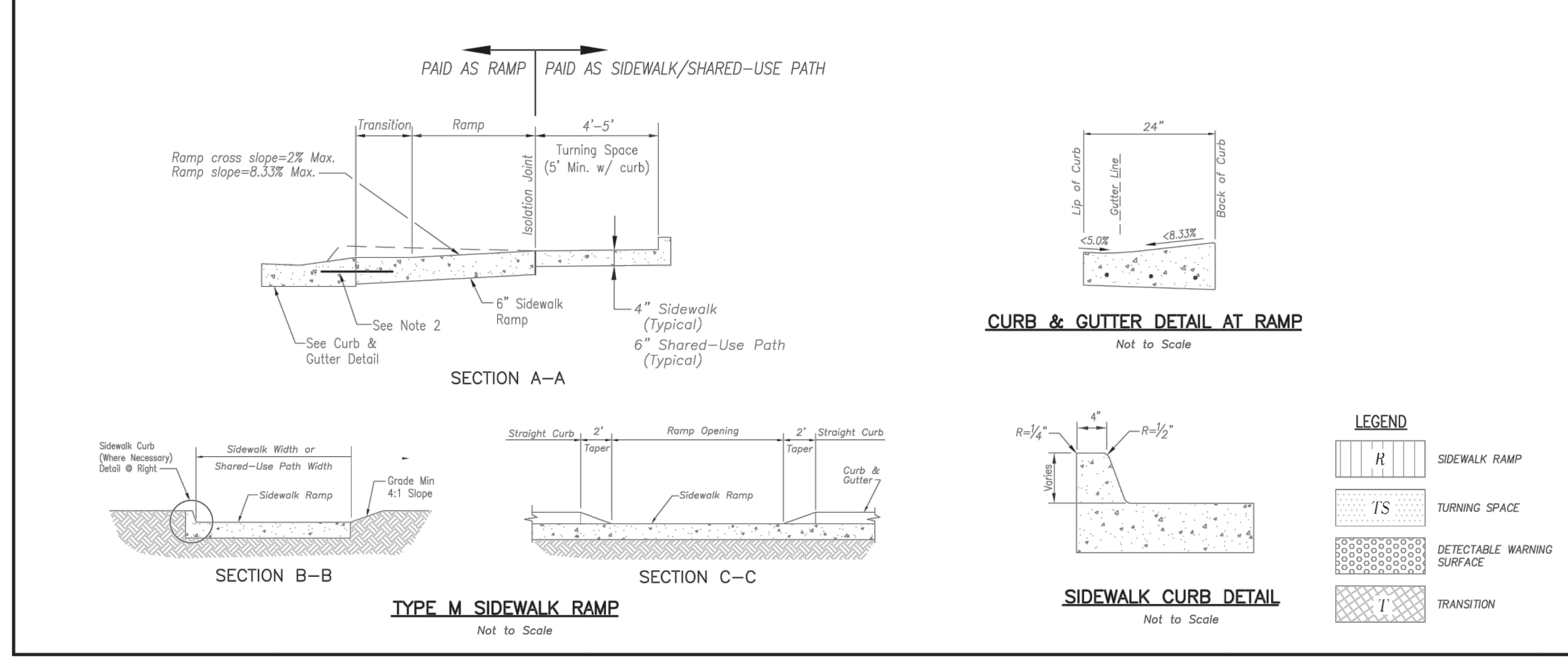
C400

PROJECT STATUS:

PERMIT DOCUMENTS



SIDEWALK/SHARED USE RAMP AT DRIVEWAY WITH ADJOINING CURB



SIDEWALK/SHARED-USE PATH & SIDEWALK/SHARED-USE RAMP NOTES:

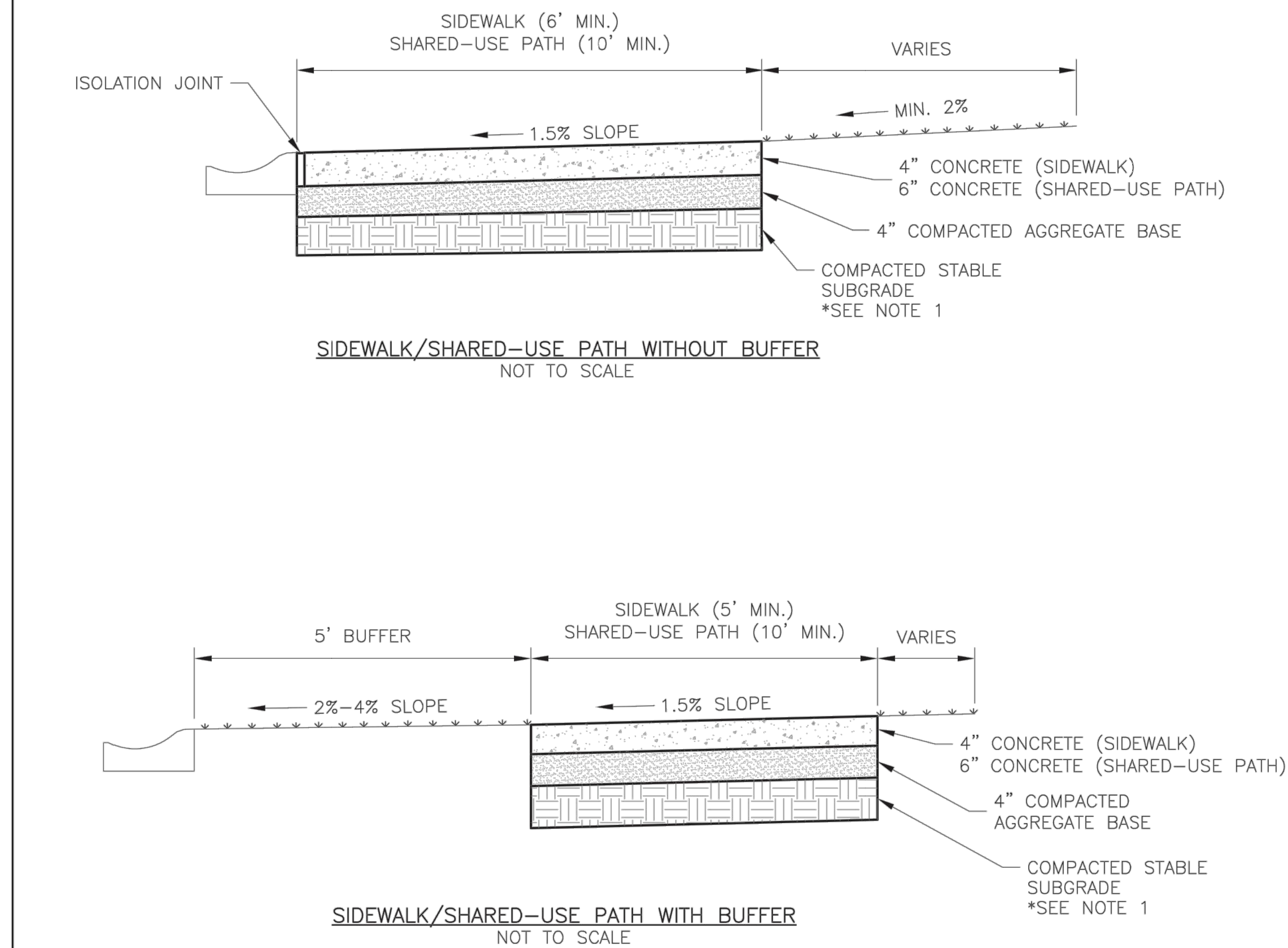
1. CURB RAMP OPENING, NOT INCLUDING FLARES, SHALL MATCH EXISTING SIDEWALK WIDTH AND OPENING SHALL BE AT LEAST 48" WIDE.
2. USE 18" LONG #4 EPOXY COATED TIE BARS @ 24" O.C. EMBED TIE BARS 9" IN EACH DIRECTION.
3. ALL RAMPS, SIDEWALKS, SHARED-USE PATHS SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
4. LONGITUDINAL JOINT SPACING TO MATCH WIDTH OF SIDEWALK.
5. ISOLATION JOINTS SHALL BE PLACED WHERE WALK ABUTS DRIVEWAYS AND SIMILAR STRUCTURES, AND 100' CENTERS MAX.
6. ADA MAXIMUM RAMP SLOPE = 8.33%
   ADA MAXIMUM CROSS SLOPE = 2.0%
   *ROADWAY EXCEPTION: WHERE EXISTING ROAD PROFILE GRADE DOES NOT ALLOW RAMP TO MEET RAMP SLOPE REQUIREMENT OF 8.33% OR LESS, THE RAMP SHALL BE EXTENDED TO A LENGTH OF 15 FEET TO MATCH EXISTING SIDEWALK. CROSS SLOPE OF RAMP SHALL BE 1.5%, ±0.5%.
7. TURNING SPACES SHALL BE 1.5%, ±0.5%, SLOPE IN ANY DIRECTION. TURNING SPACES SHALL HAVE A MINIMUM 4'x4' TURNING AREA. TURNING SPACES, WITH A SIDEWALK CURB, SHALL HAVE A 5' TURNING AREA PERPENDICULAR TO THE SIDEWALK CURB.
8. FOR RETROFIT WORK, SLOPES TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY CITY INSPECTOR
9. RAMP EXTENSION AREA SHALL NOT BE USED AS TRANSITION TO EXISTING SIDEWALK. ANY TRANSITIONS REQUIRED TO MATCH RAMPS TO EXISTING SIDEWALK SHALL REQUIRE REMOVAL AND REPLACEMENT OF ADDITIONAL SIDEWALK BEYOND THE RAMP AREA. SIDEWALK TRANSITION LENGTH SHALL BE EQUAL TO OR GREATER THAN THE WIDTH OF THE EXISTING SIDEWALK. RAMP EXTENSIONS SHALL BE A CONTINUOUS SLOPE.
10. ALL SIDEWALK AND RAMP CONSTRUCTION SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

Drawn By: MJF
Checked By: DL
Date: 05/2021
Proj. #:

GEN-3B



SIDEWALK/SHARED-USE PATH WITH BUFFER
NOT TO SCALE

GENERAL NOTES:

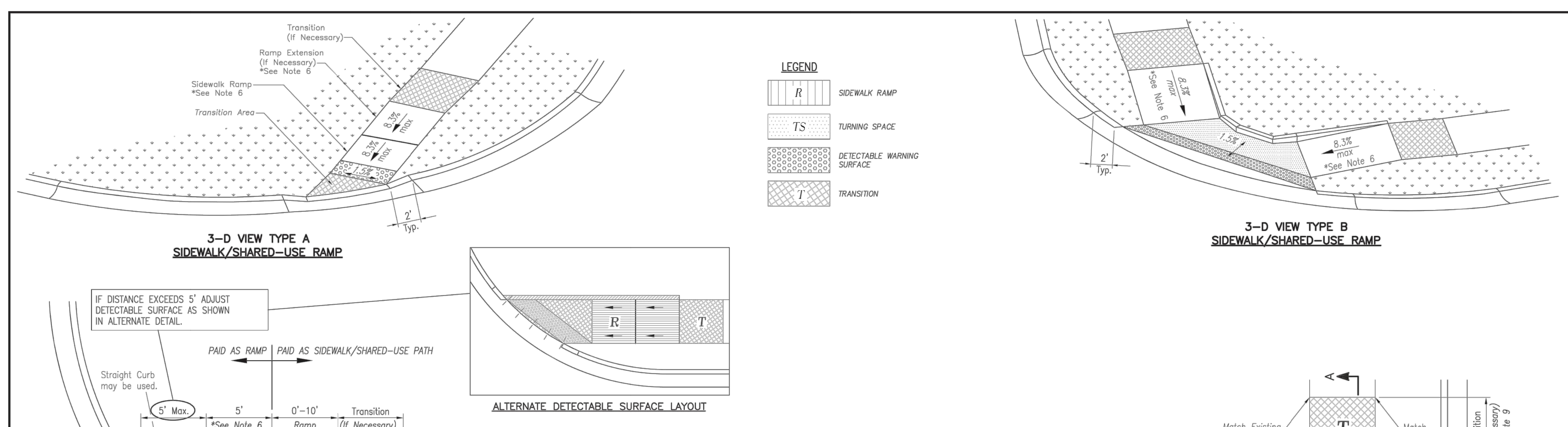
1. SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
2. 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
3. KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS/SHARED-USE PATHS.
4. ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
5. AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
6. AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
7. SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
8. SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
9. WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

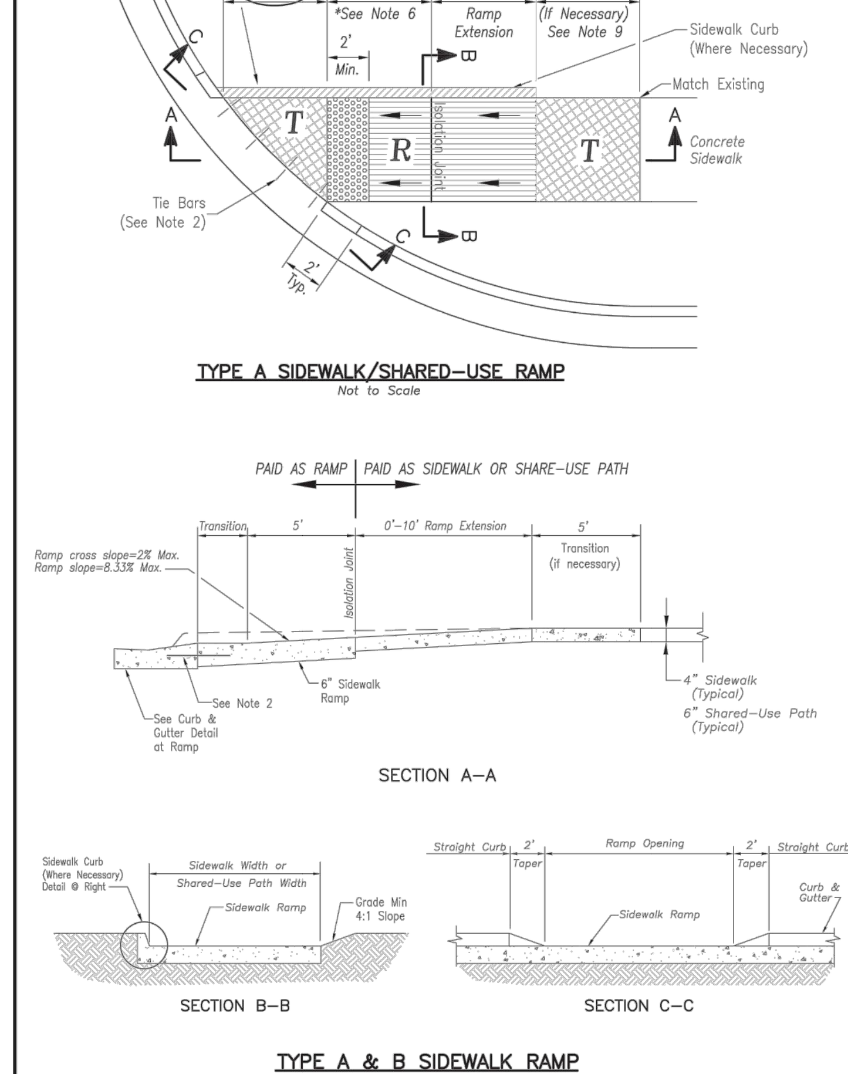
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SIDEWALK/SHARED-USE PATH DETAIL

Date: 05/2021
Drawn By: MJF
Checked By: DL

GEN-2





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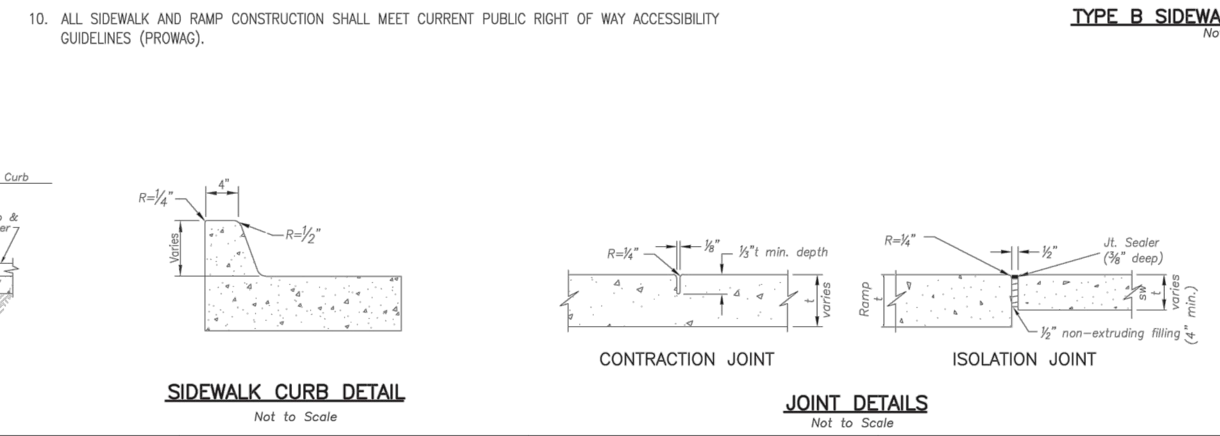
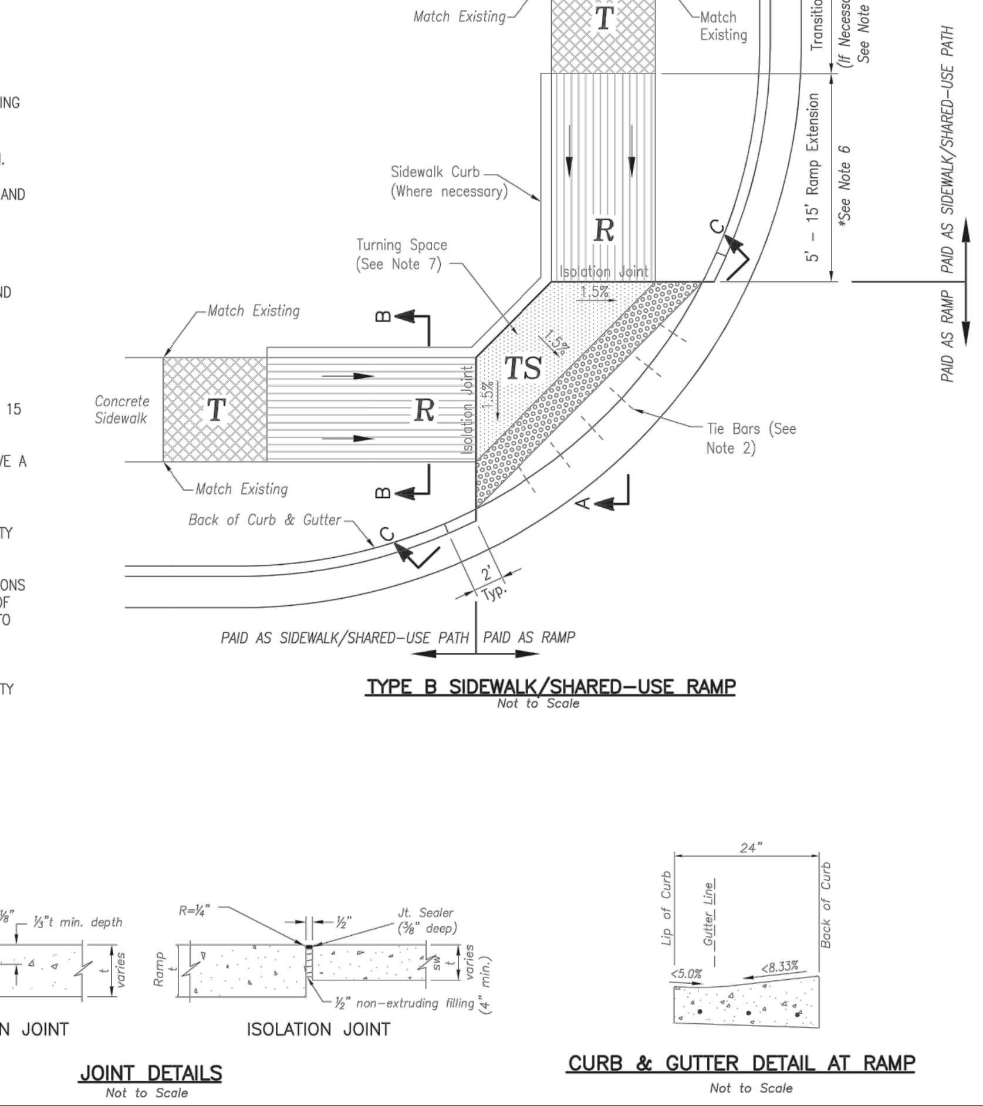
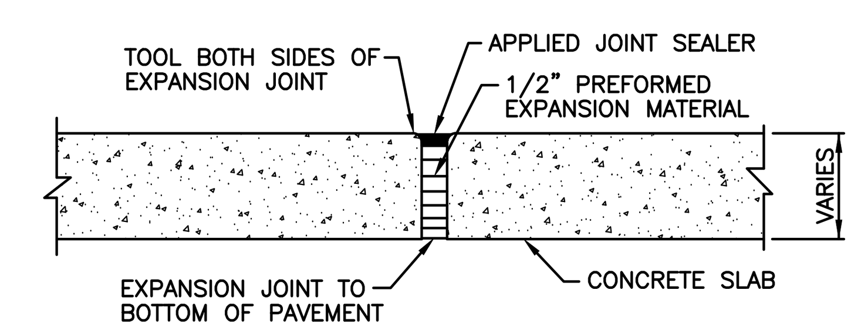


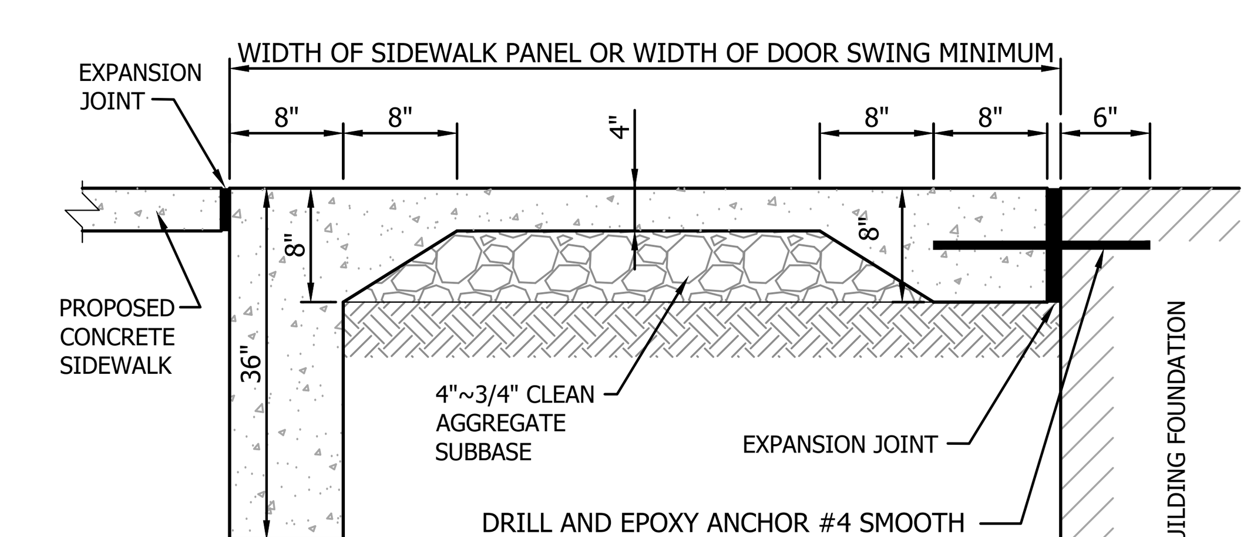


STANDARD DETAILS
CITY OF LEE'S SUMMIT, MO
LEE'S SUMMIT, JACKSON COUNTY, MO
ADA RAMP RETROFIT DETAIL

GEN-3A



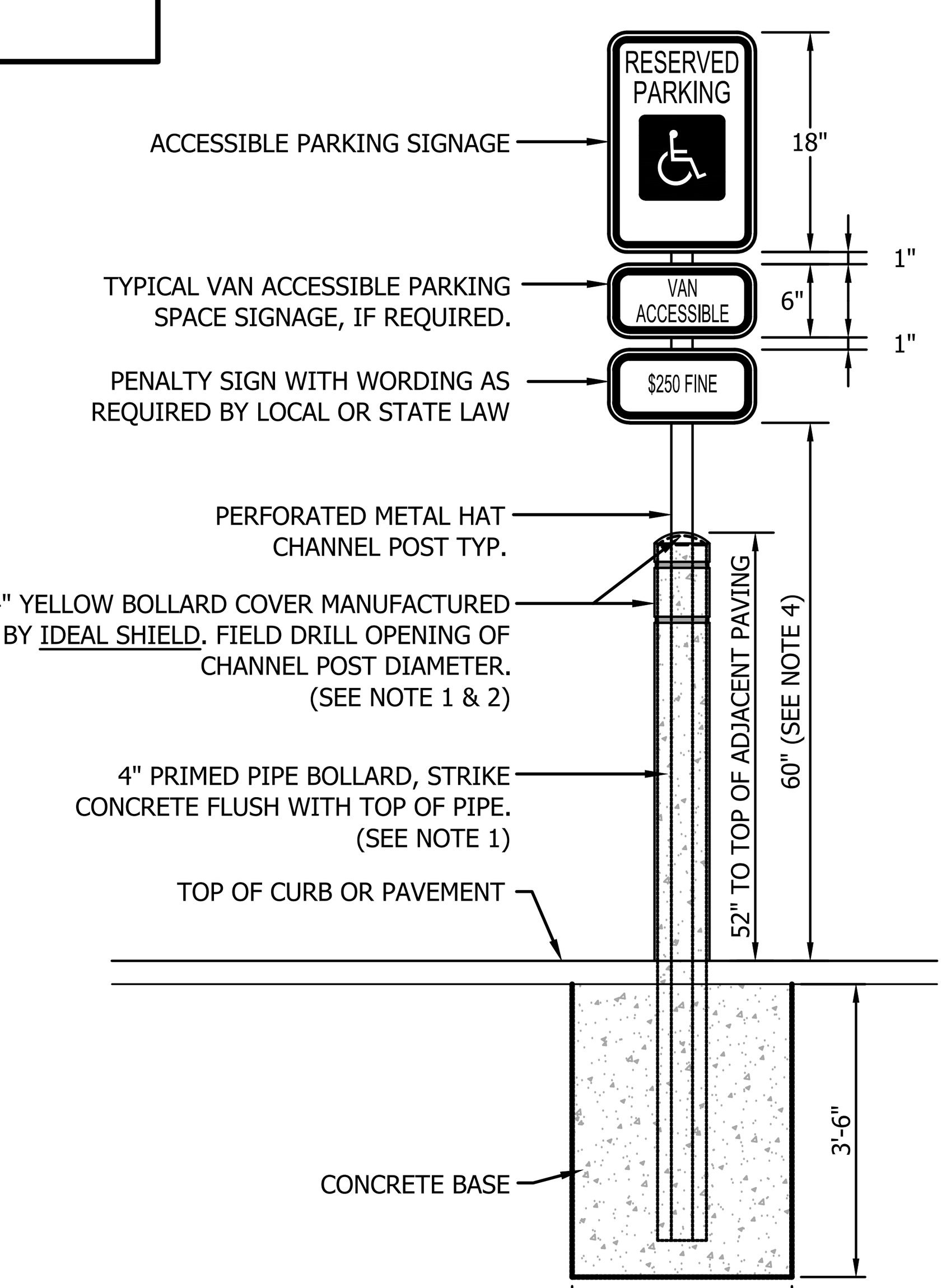
EXPANSION JOINT DETAIL
NO SCALE



NOTES:

1. MAXIMUM SLOPE IN ALL DIRECTIONS SHALL BE 2% ON 5'x5' LANDING OUTSIDE OF THE DOOR.
2. CONCRETE SHALL BE FLUSH WITH THE EXISTING SLAB WHERE IT MEETS THE BUILDING. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THRESHOLD REMOVAL / REPLACEMENT AS REQUIRED.

SIDEWALK AT BUILDING ENTRANCE
NO SCALE



NOTES:

1. BOLLARD NOT REQUIRED IF ACCESSIBLE SIGNAGE IS LOCATED IN GRASS AND OVER THREE (3) FEET BEYOND THE BACK OF CURB.
2. BOLLARD SHALL BE IDEAL SHIELD 1/8" STANDARD BOLLARD COVER, 1.90" OUTSIDE DIAMETER, 1/8" NOMINAL WALL THICKNESS, COLOR OSHA YELLOW WITH RED REFLECTIVE STRIPES, DOME TOP PLASTIC CAP.
3. CONTRACTOR SHALL COORDINATE INSTALLATION OF BOLLARD COVER PRIOR TO SIGNAGE INSTALLATION.
4. FOR NON-VAN ACCESSIBLE PARKING SIGNAGE, ALIGN TOP OF THE SIGN WITH VAN ACCESSIBLE PARKING.

ACCESSIBLE SIGNAGE
NO SCALE

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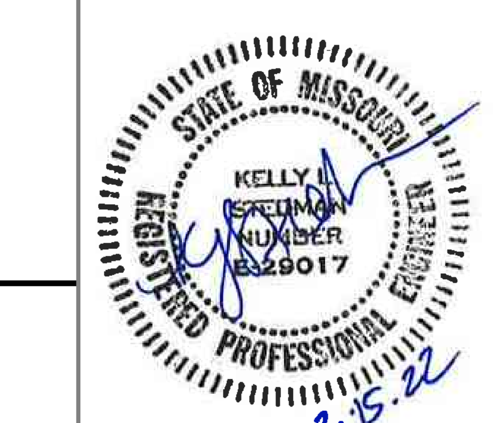
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:
PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
WEST PRYOR DEVELOPMENT, LOT 9A NEW PRYOR RD. & NW SUMMIT WOODS XING, LEE'S SUMMIT, MO 64081



REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	MTF
DRAWN BY:	TAB
DESIGNED BY:	TAB
PROJECT NUMBER:	5240368028

SHEET TITLE:
DETAILS

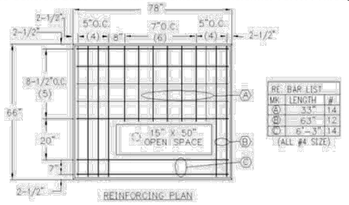
SHEET ID:
C500

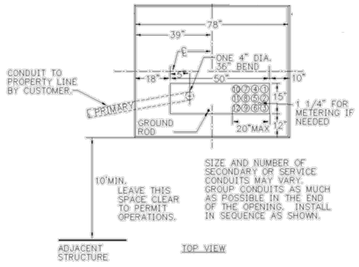
PROJECT STATUS:
PERMIT DOCUMENTS

evergy

10.36 – Three Phase Transformer Pads (EKM, EMM, EMW Territory)

Cast in Place Concrete Base for 3-Phase Padmount Transformer 75KVA Through 500 KVA





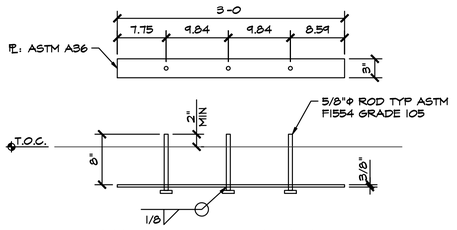
Notes:

1. All concrete shall be air entrained and test 3000 psi (Min.) in 28 days
2. Direction of primary conduit to be provided by Company
3. Any above ground obstructions such as air conditioners, shrubs, plants, fences, gas meters, and gas lines shall not be within 10 feet of the front or 3 ft of the sides of the transformer pad. Clearances must also be followed set forth in drawing 10.42.
4. The sizing of this base is based upon average undisturbed earth. Backfill with compact dirt or AB3 only (do not use gravel) to the bottom of the pad. Install conduits level with the top of the pad and cover the ends of the conduits.
5. Center of the base must be within 15' of the edge of a paved area for crane access.
6. Conduit shall be 4" above bottom of concrete pad.

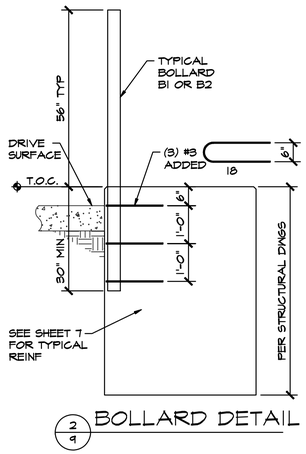
Revision: 4/21/20211

evergy

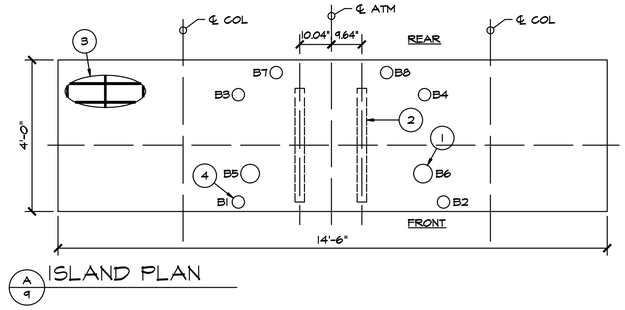
Revision: 4/21/20211



1/9 ANCHOR ROD EMBED



2/9 BOLLARD DETAIL



A/9 ISLAND PLAN

1. BOLLARDS-8 TOTAL ASTM A53 SCHEDULE 40 GALVANIZED (6) 4" DIAMETER SAFETY BOLLARD & (2) 6" DIAMETER (B5&B6) SECURITY BOLLARDS. SEE SHEET 1 OF 9 FOR LOCATIONS.
2. THREADED ROD EMBED. SET WITH TEMPLATE FOR PRECISE LOCATION. SEE 1/9
3. REINF PROVIDED FOR SITE LOCATION ENGINEERING REQUIREMENTS SEE SHEET 7 OF 9
4. SEE 2/9 FOR ADDITIONAL REINFORCEMENT AT BOLLARD B1&B2

GENERAL NOTES:

1. THIS SHEET IS INTENDED TO BE ACCOMPANIED BY NCR6688 UPGRADED SITE PREP NOTES AND ACCESSORIES PAGE N-13 FOR ADDITIONAL REQ'D INFORMATION.
2. THIS SHEET IS ALSO PART OF COMPANION SYSTEMS INC (CSI) STRUCTURAL DRAWINGS FOR 3100/3101 PNC BANK CANOPY.
3. THIS DRAWING TO ACCOMPANY CSI DRAWINGS ON NEW ISLAND INSTALLATIONS ONLY. IT IS NOT TO BE USED FOR RETROFIT OR EXISTING ISLAND APPLICATIONS.

ATM PAD SECURITY BOLLARD DETAIL

NO SCALE– FOR REFERENCE ONLY

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SUITE 1100, DENVER, CO 80237
303-409-9700 FAX 303-409-9701

www.rsandh.com
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:

WEST PRYOR DEVELOPMENT, LOT 9A NEW PRYOR RD. & NW SUMMIT WOODS XING, LEE'S SUMMIT, MO 64081

PROJECT
LEE'S SU
WEST PRYOR DE
9,
NEW PRYOR RD
WOODS
LEE'S SUMM

STATE OF MISSOURI
KELLY L. SCHUMAN
NUMBER A-2009017
REGISTERED PROFESSIONAL ENGINEER
2.15.22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	MTF
DRAWN BY:	TAB
DESIGNED BY:	TAB

PROJECT NUMBER:
5240368028

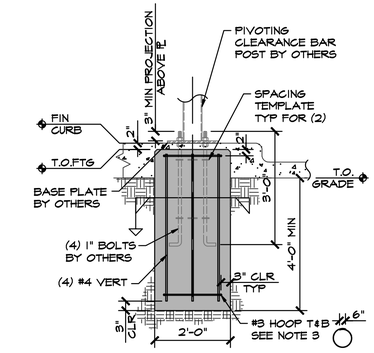
SHEET TITLE:

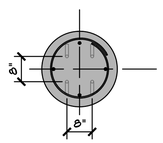
DETAILS

SHEET ID:

C501

PROJECT STATUS:
PERMIT DOCUMENTS





A FOUNDATION DETAIL
1/2"=1'-0"

1. THIS FOUNDATION IS DESIGNED TO BE USED WITH A PIVOTING CLEARANCE BAR BY UNI-STRUCTURES INC. 8540 COBB CENTER DRIVE STE 100 KENNESAW GA 30152 OR EQUAL
2. THE ENGINEERS STAMP ON THIS PAGE IS FOR THE FOUNDATION ONLY. THE PIVOTING BAR AND ANCHOR BOLTS ARE BY OTHERS.

DESIGN CRITERIA

THIS FOUNDATION HAS BEEN DESIGNED TO MEET THE FOLLOWING CRITERIA:

SNOW LOAD	50	PSF
WIND SPEED	150	MPH
SEISMIC COEFF	1.5W	(WORST CASE)
MAX. IMPACT FORCE	650LBS @ 3' ABOVE ANCHORS	

ANY USE OF THIS DRAWING FOR A LOCATION OTHER THAN THE LOCATION INDICATED BELOW IS PROHIBITED AND WILL MAKE THESE DRAWINGS INVALID.

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE. INDICATED ON SHEET 3
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.

FOUNDATIONS:

1. EXCAVATIONS SHALL BE CLEANED OF ALL DEBRIS. STANDING WATER SHALL BE REMOVED.
2. FOUNDATIONS DESIGNED USING THE FOLLOWING VALUES
   ALLOWABLE PRESSURE: 1500 PSF
   PIER LATERAL BEARING: 100 PSF.2*=200 PSF/FT OF DEPTH

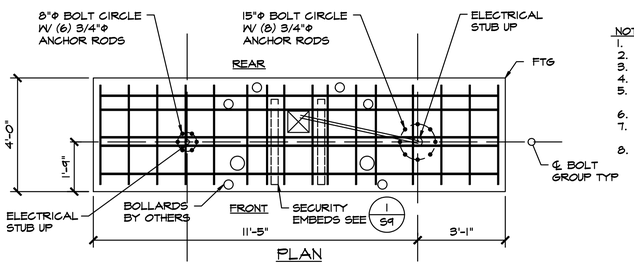
*INCREASE ALLOWED PER IBC§3.4.

CONCRETE & REINFORCING STEEL:

1. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-14.
2. THE MIN 28 DAY STRENGTH & TYPE OF CONCRETE SHALL BE AS FOLLOWS:
   FOUNDATIONS 4000 PSI (150 PCF)
3. NOTE: #3 HOOP IS NON-STRUCTURAL. FOR INSTALLATION EASE ONLY

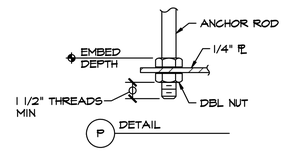
PIVOTING CLEARANCE BAR FOUNDATION DETAIL

NO SCALE– FOR REFERENCE ONLY

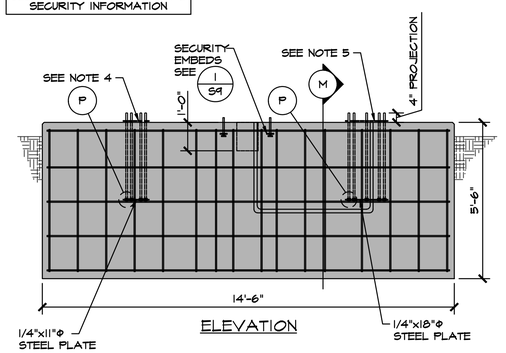


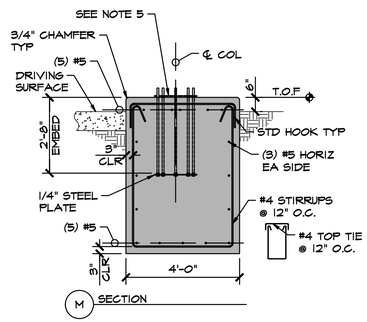
NOTES:

1. CONCRETE STRENGTH f'c = 4000 psi @ 28 DAYS.
2. CONCRETE MIX TO HAVE 5%-7% AIR ENTRAINMENT BY VOLUME.
3. SEE SHEET 3 FOR ANCHOR BOLT SPECIFICATIONS.
4. STUB UP CANOPY LIGHTING THROUGH CENTER OF BASE PLATE EITHER COLUMN.
5. CONTRACTOR TO PROVIDE STEEL TEMPLATE AT TOP OF FTG FOR ACCURATE BOLT PLACEMENT.
6. LOCATE ATM ELECTRICAL CONNECTIONS PER MANUFACTURERS REQUIREMENTS.
7. QTY 2, 2" CONDUITS PLACED INTO FORMS BEFORE POUR. FROM ATM PIT TO DEPARTURE COLUMN.
8. BOLLARDS TO BE PLACED PRIOR TO FOUNDATION CONCRETE POUR.



SEE PAGE 9 FOR ADDITIONAL SECURITY INFORMATION





ATM PAD FOUNDATION DETAIL

NO SCALE– FOR REFERENCE ONLY

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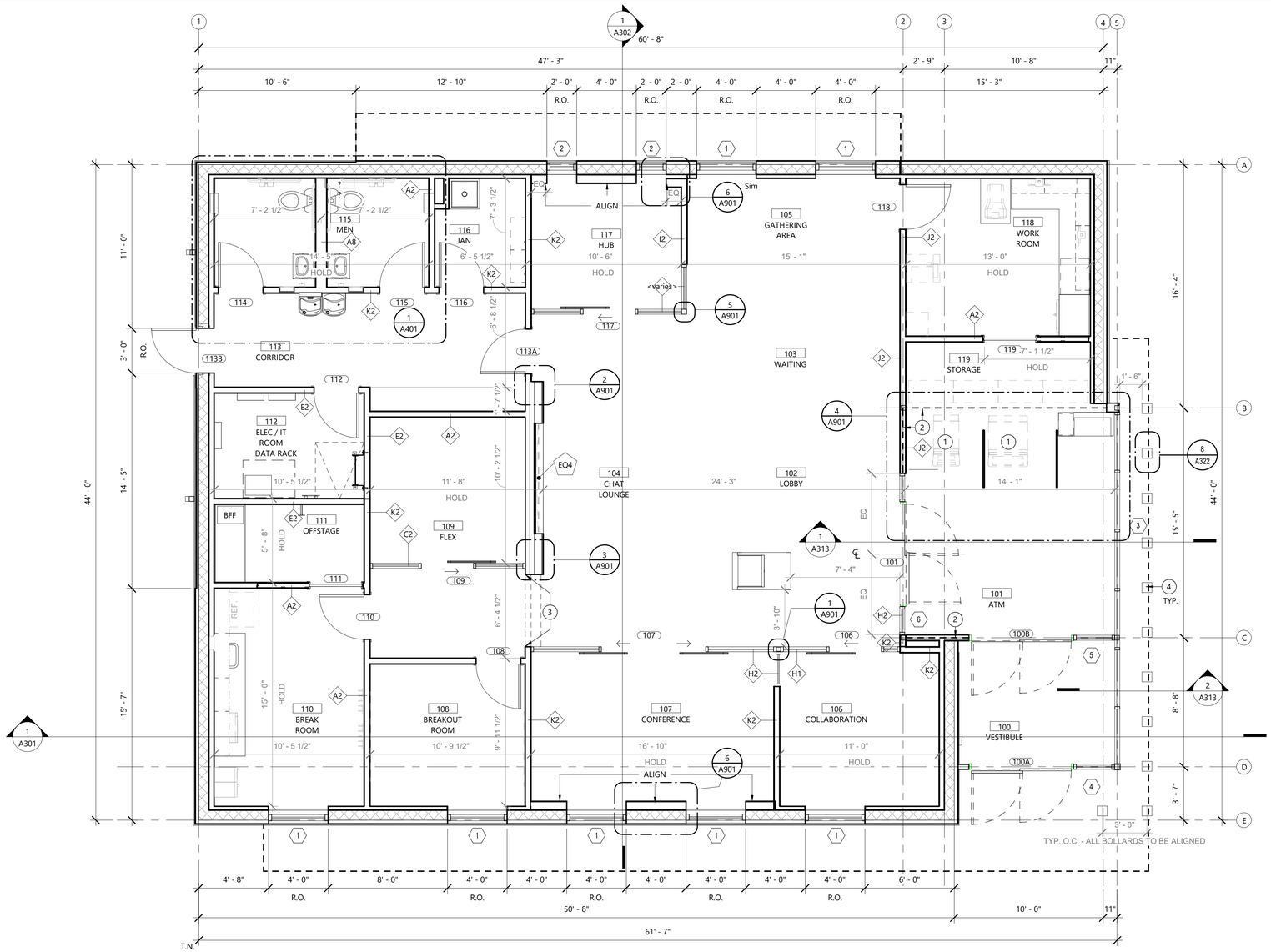

GENERAL NOTES

1. SEE PARTITION TYPES FOR ADDITIONAL INFORMATION.
2. ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD WALL, U.N.O.
3. ALL EXTERIOR DIMENSIONS ARE TO FACE OF MASONRY, OR COLUMN LINES, U.N.O.
4. DIMENSIONS NOTED "AS REQUIRED" OR "VERIFY" ARE TO BE VERIFIED WITH THE ARCHITECT FOR FINAL APPROVAL BEFORE FINAL CONSTRUCTION. G.C. IS NOT TO PROCEED WITH CONSTRUCTION IF A DIMENSION(S) IS IN QUESTION OR ERROR.
5. ALL EXTERIOR CORNERS OF GYP. BD. PARTITIONS SHALL HAVE SCREW ATTACHED METAL CORNER BEADS, U.N.O.
6. LOCATIONS WHERE PARTITIONS TERMINATE AT WINDOW MULLIONS, CENTER THE PARTITION ON THE MULLION, U.N.O. DO NOT FASTEN INTO MULLIONS. WHERE PARTITIONS TERMINATE AT BUILDING PERIMETER COLUMNS, PROVIDE CLOSURE TO GLASS. REFER TO DETAILS ON PLANS.
7. ALL GYPSUM WALLBOARD CONSTRUCTION SHALL BE PLUMB AND IN TRUE STRAIGHT LINES. ALL GYPSUM WALLBOARD CONSTRUCTION SHALL CONFORM TO MANUFACTURER'S WRITTEN STANDARDS OF CONSTRUCTION.
8. NEW WALL SURFACES SHALL BE PROPERLY PREPARED TO RECEIVE NEW FINISH(ES). JOINTS SHALL NOT BE VISIBLE AFTER NEW FINISH HAS BEEN APPLIED.
9. DOOR FRAMES OCCURRING ADJACENT TO INTERSECTING PARTITIONS SHALL BE INSTALLED FOUR (4) INCHES FROM PARTITION UNLESS NOTED SPECIFICALLY ON PLANS.
10. USE GYPSUM WALLBOARD ACCESSORIES AS SPECIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS. SUBSTITUTIONS MUST HAVE APPROVAL OF THE ARCHITECT PRIOR TO INSTALLATION.
11. LOCATIONS WHERE SCHEDULED PARTITION TO TOP TRACK ATTACHES TO CEILING GRID. SHIM WITH ATTACHMENTS AT 48" MINIMUM INTERVALS.
12. ALL NEW WALLS OVER 12'-0" IN LENGTH BETWEEN INTERSECTING PARTITIONS SHALL BE BRACED TO STRUCTURE TO RESIST LATERAL LOADING.
13. GYPSUM WALLBOARD ON PARTITIONS REQUIRING A RATING OF ONE-HOUR OR MORE SHALL BE TAPED AND THE SCREWS SPOTTED WHETHER OR NOT WALL TREATMENT IS SCHEDULED.
14. SOUND ATTENUATION INSULATION: UNLESS SPECIFIED OTHERWISE IN THE FOLLOWING PARAGRAPHS, EITHER MINERAL WOOL OR GLASS FIBER INSULATION WILL BE ACCEPTABLE. INSULATION SHALL BE EITHER 6 P.C.F., BLANKET OR BATT TYPE IN WIDTH REQUIRED TO FILL THE SPACES. FRICTION FIT SNUGLY IN PLACE BETWEEN THE STUDS USED IN PARTITIONS.
15. ALL INSULATION IN WALLS TO BE 25 FLAME SPREAD - 450 SMOKE DEVELOPED.
16. G.C. IS TO PROVIDE FIRE-TREATED PLYWOOD AND/OR METAL BLOCKING IN WALL BEHIND MILLWORK/CABINETRY/SHELVING/DOOR & WALL STOPS FOR MOST SECURE METHOD OF ANCHORING, AS WELL AS BEYOND WALL MOUNTED FURNITURE WITHIN OFFICES. SEE CASEWORK DETAIL.
17. MITER ALL CORNERS WHERE APPLICABLE.
18. ALL VISIBLE BLOCKING BELOW COUNTERS IS TO BE PAINTED TO MATCH WALL BEHIND.

FLOOR PLAN KEYED NOTES

1. COORDINATE EXACT DIMENSIONS OF ATMS WITH OWNER'S VENDOR.
2. DASHED LINE TO REPRESENT EXTENT OF SECURITY MESH APPLICATION. SEE PARTITION TYPES.
3. ALIGN FINISH FACE OF WALLS
4. LIGHTED SECURITY BOLLARD @ 36" O.C.. COORDINATE WITH CIVIL DRAWINGS.

LEGEND

- PARTITION
- DOOR
- ROOM 000 — ROOM TAG
- 101 — DOOR TAG
- 0 — WINDOW TAG
- PARTITION WITH SECURITY MESH. SEE PARTITION TYPES

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

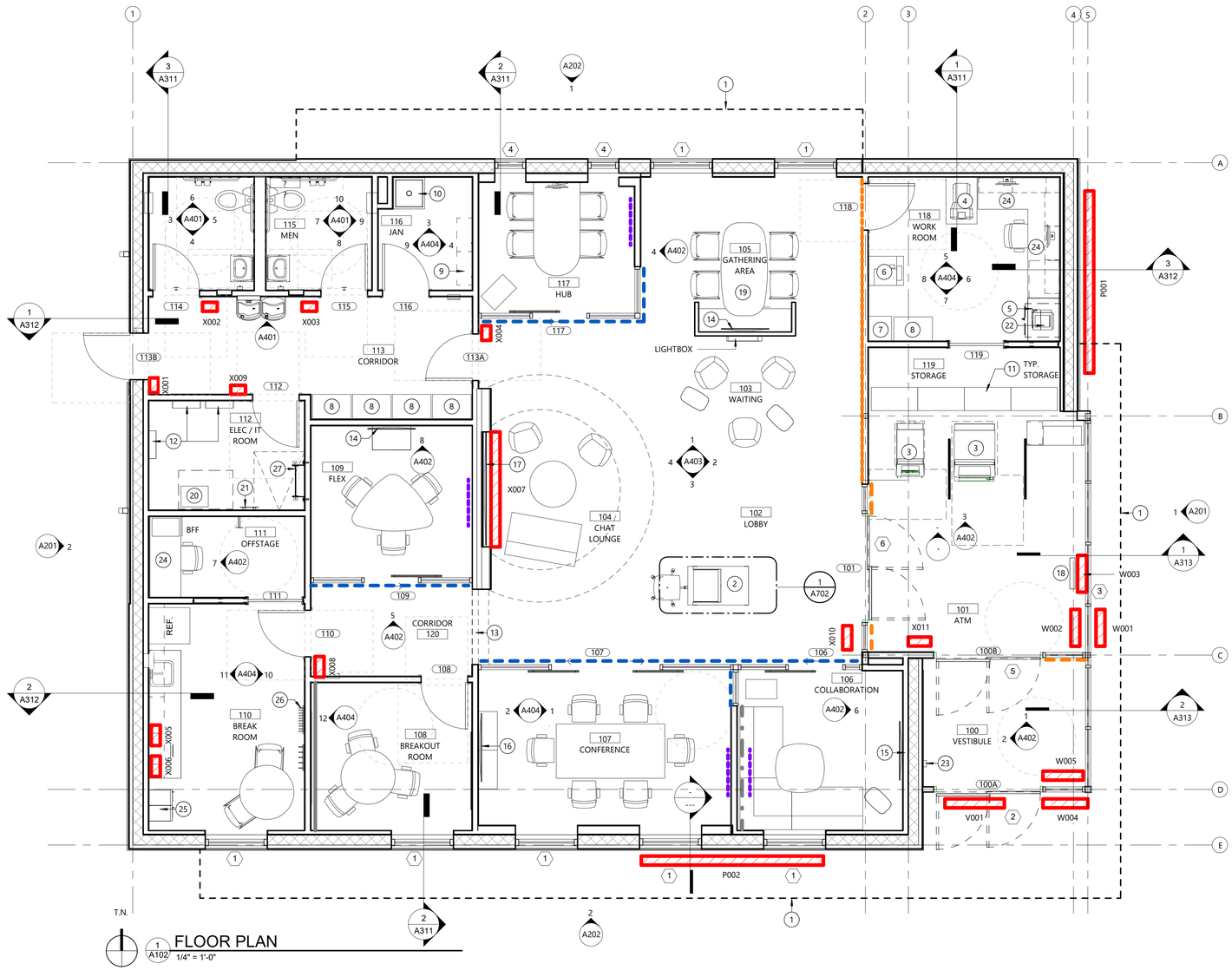
NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: HAW
DRAWN BY: CJ
DESIGNED BY: RSH
PROJECT NUMBER: 524-0368-028

SHEET TITLE:
DIMENSIONED FLOOR PLAN

SHEET ID:
A101

PROJECT STATUS:
PERMIT DOCUMENTS



FLOOR PLAN KEYED NOTES (SEE FF+E PLAN FOR ADDITIONAL INFORMATION)

1. CANOPY (OVERHEAD)
2. "PERCH" CASEWORK TO BE PROVIDED AND INSTALLED BY G.C. SEE A702 FOR DETAILS.
3. FREE- STANDING, WALK-UP ATM. WITH SURROUNDING G.C. TO COORDINATE PLACEMENT WITH PNC AND VENDOR.
4. ICI MACHINE TO BE PROVIDED BY PNC.
5. CASH SAFE UNDER COUNTER. G.C. TO COORDINATE PLACEMENT WITH PNC.
6. SMALL MFD PRINTER TO BE PROVIDED BY PNC.
7. SHRED BIN.
8. LATERAL FILE CABINET TO BE PROVIDED BY PNC.
9. WALL SHELVING. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
10. SERVICE SINK. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. FREESTANDING HEAVY DUTY SHELVING PROVIDED BY PNC.
12. ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFROMATION.
13. SOFFIT / BULKHEAD ABOVE
14. 43" MONITOR. REFER TO INTERIOR ELEVATION FOR MOUNTING HEIGHT. SEE: 10/A901 FOR RECESSED MOUNTING DETAILS
15. 50" MONITOR. REFER TO INTERIOR ELEVATION FOR MOUNTING HEIGHT. SEE: 9/A901 FOR RECESSED MOUNTING DETAILS
16. 55" MONITOR. REFER TO INTERIOR ELEVATION FOR MOUNTING HEIGHT. SEE 9/A901 FOR RECESSED MOUNTING DETAILS.
17. 98" MONITOR. REFER TO INTERIOR ELEVATION FOR MOUNTING HEIGHT. SEE A401 FOR RECESSED MOUNTING DETAILS.
18. 24" x 48" DOUBLE-SIDED LIGHT BOX BY PNC. GC SHALL COORDINATE FINAL PLACEMENT WITH SIGNAGE VENDOR. INTENT IS THAT IT IS CENTERED ON THE ADJACENT GLAZING UNIT.
19. GATHERING TABLE AND SEATING BY OTHERS. G.C. TO COORDINATE PLACEMENT WITH PNC (TYP. OF 1). TABLE TO BE CENTERED ON EXTERIOR WALL BETWEEN WINDOWS.
20. IT RACK.
21. GROUND BAR FOR DATA RACK & TELEPHONE BOARD. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
22. MICRO PRINTER ON COUNTER TOP TO BE PROVIDED BY PNC.
23. KEYSAFE LOCKBOX INSTALLED ON FACE OF WALL. PROVIDE WOOD BLOCKING AS REQUIRED. FINAL LOCATION TO BE COORDINATED WITH PNC BEFORE INSTALLATION.
24. GROMMET TO BE PROVIDED IN COUNTERTOP AS REQUIRED FOR ALIGNMENT AND USE OF POWER/DATA PROVISIONS. SEE INTERIOR ELEVATIONS AND ELECTRICAL DWGS TO COORDINATE LOCATIONS.
25. LOCKERS
26. COAT RACKS
27. LADDER AND ROOF HATCH

LEGEND

- NEW DOOR
- ROOM 000 — ROOM TAG
- 101 — DOOR TAG
- GRAY ABSTRACT WC
- GRAY ACCENT PT
- ORANGE SAFETY VINYL
- ENHANCED POWERLINK OFFICE VINYL
- ORANGE ABSTRACT WC
- REGIONAL ARTWORK
- XXXX — SIGNAGE AND CODE; FOR REFERENCE ONLY. COORDINATE WITH VENDOR FINAL PLACEMENT & DETAILS RE: SIGN PACKAGE. SIGNAGE DETAILS TO BE SUBMITTED SEPARATELY FOR LANDLORD REVIEW.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	HAW
DRAWN BY:	CJ
DESIGNED BY:	RSH
PROJECT NUMBER:	524-0368-028

SHEET TITLE:

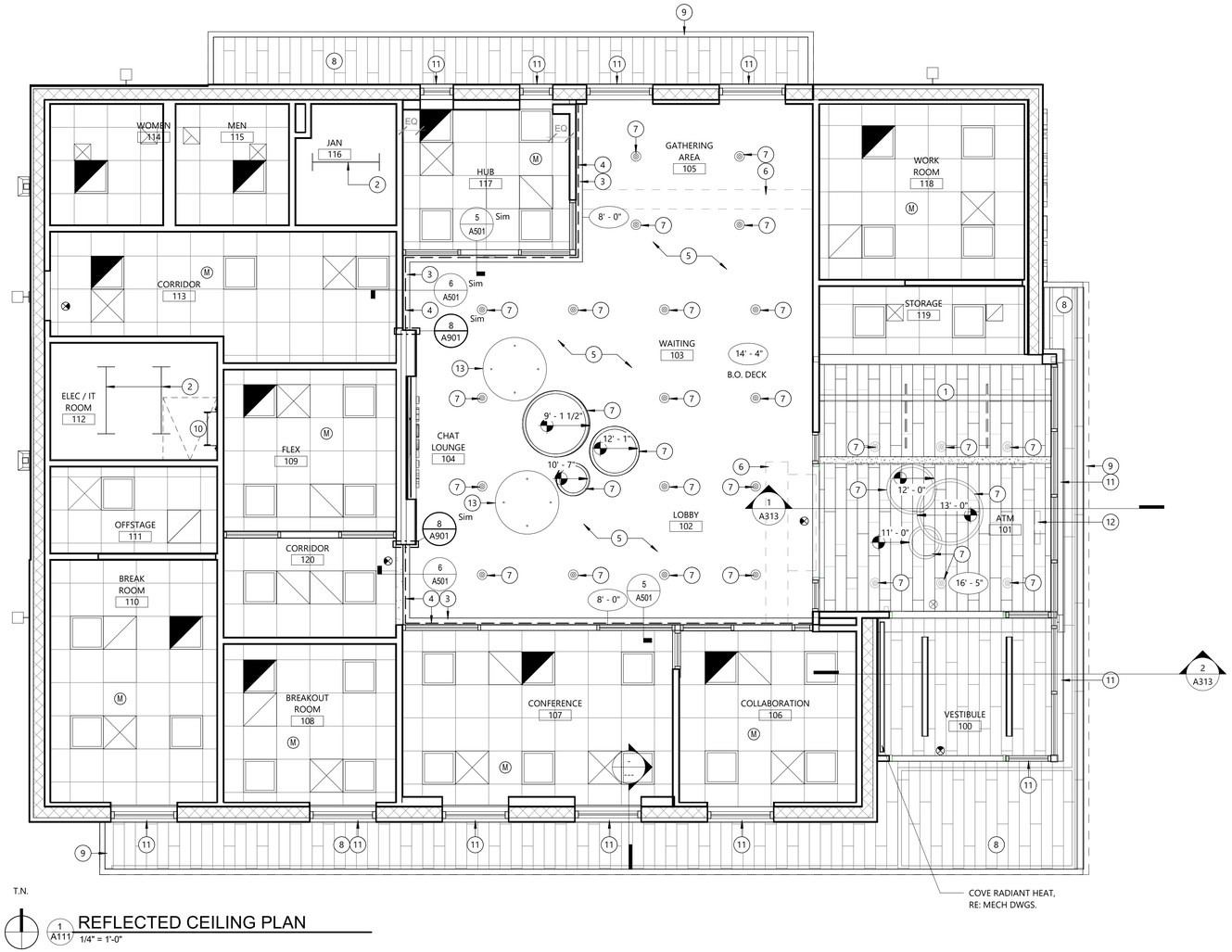
FLOOR PLAN

SHEET ID:

A102

PROJECT STATUS:

PERMIT DOCUMENTS



T.N.

1 A111 REFLECTED CEILING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. ALL CEILING HEIGHTS ARE 9'-0" U.N.O.
2. CEILING FINISHES TO BE SPECIFIED ON PLANS AND IN FINISH SPECIFICATIONS.
3. G.C. SHALL COORDINATE FIRE PROTECTION, HVAC, ELECTRICAL SYSTEMS, AND FIRE ALARM SYSTEMS LOCATED IN CEILING. PROCURE PERMITS FOR THIS WORK AS REQUIRED. NOTIFY ARCHITECT OF ANY DISCREPANCIES FROM THE DRAWINGS.
4. IF ANY LIGHT FIXTURE CANNOT BE INSTALLED DUE TO CONFLICTS WITH BEAMS, HVAC, PIPING, ETC., CLARIFY WITH ARCHITECT BEFORE PROCEEDING WITH FIXTURES IN QUESTION OR RELATED FIXTURES IN AREA. HVAC, PIPING, ETC., TO BE DESIGNED TO WORK WITH LIGHT FIXTURE OF LOCATIONS GIVEN.
5. PROVIDE ADDITIONAL SUPPORT TO GRID AS REQUIRED AT DRYWALL SOFFITS AND/OR CEILINGS. SEE PLANS FOR EXTEND TO NEW CEILINGS AND SOFFITS.
6. EXIT LIGHTS AND EMERGENCY LIGHTING TO BE INSTALLED PER CODE REQUIREMENTS. TYPE TO MATCH PNC STANDARDS. LOCATIONS TO BE APPROVED BY ARCHITECT. REFER TO ELECTRICAL DRAWINGS.
7. G.C. SHALL NOTE ANY CONFLICTS OCCURRING AMONG ELECTRICAL, FIRE PROTECTION, ARCHITECTURAL, OR MECHANICAL TRADES AND DRAWINGS. G.C. SHALL INFORM ARCHITECT OF CONFLICTS PRIOR TO START OF WORK IN A ROOM OR AREA.
8. G.C. TO INSTALL DETECTORS AND STROBES AS NECESSARY TO ACCOMMODATE TENANT'S NEW CONSTRUCTION IN ACCORDANCE WITH LOCAL FIRE SAFETY REQUIREMENTS.
9. G.C. SHALL INSTALL AIR GRILLES AND DUCTWORK AS REQUIRED BY NEW PARTITION LAYOUT. G.C. SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED C.F.M. TO EACH SPACE.
10. G.C. SHALL PROVIDE TESTING. TEST AND BALANCE REPORT IS REQUIRED.
11. SOUND ATTENUATION INSULATION USED ABOVE THE FINISHED CEILING SHALL BE 24" X 48", 3" UN-FACED MINERAL FIBER DESIGNED TO ABSORB SOUND AND BE SPECIFICALLY MANUFACTURED FOR USE ABOVE SUSPENDED CEILINGS. SEE PARTITION TYPES FOR LOCATION.
12. CENTER ALL SPRINKLER HEADS, DAYLIGHT SENSORS, CEILING DEVICES AND OTHER CEILING-MOUNTED ITEMS IN TILE.
13. ALL 2x2 LIGHT FIXTURES SHALL REST ON TWO (2) MAIN "T"s OR CONTRACTOR SHALL PROVIDE SUPPORT AS NECESSARY AT FREE CORNERS OF FIXTURE.

REFLECTED CEILING PLAN KEYED NOTES

1. FIELD VERIFY LOCATION OF FIXTURES OVER ATMs. COORDINATE WITH PNC AND VENDOR(S).
2. SUSPENDED LIGHT FIXTURE. SEE ELECTRICAL.
3. GYP. "EYEBROW", SEE DETAIL TBD. TO BE PAINTED PT-2, SEE FINISH LEGEND.
4. DASHED LINE INDICIATES CONTINUOUS FABRITRAK ACCOUSTICAL PANELS ABOVE THE ENTIRE LENGTH OF THE "EYEBROW", RE: FINISH SCHEDULE.
5. ALL EXPOSED STRUCTURE, ROOF DECK, DUCTWORK, CONDUIT, ETC., SHALL BE PAINTED. SEE FINISH SCHEDULE FOR MORE INFORMATION.
6. MECHANICAL EQUIPMENT ABOVE. COORDINATE WITH MECHANICAL DRAWINGS.
7. PENDANT LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
8. NICHIHA FIBER-CEMENT PANEL SYSTEM SOFFIT AT UNDERSIDE OF CANOPY, 9'-0" AFF.
9. OUTLINE OF EXTERIOR CANOPY.
10. ROOF ACCESS LADDER AND ROOF HATCH. COORDINATE LOCATION RE: ROOF PLAN, SHEET A121.
11. ROLL-DOWN SECURITY SHUTTER SYSTEM. COORDINATE WITH EXTERIOR ELEVATIONS.
12. LOCATION OF LIGHTBOX ON FINISHED FLOOR.
13. ARMSTRONG ACCENT CLOUD CLD-1, RE: ID100

LEGEND

- 2X2 LAY IN FIXTURE
- CHAIN-HUNG FIXTURE
- DECORATIVE PENDANT FIXTURE
- DECORATIVE PENDANT FIXTURE
- DOWNLIGHT FLUSH RECESSED FIXTURE
- HVAC GRILL - SUPPLY
- HVAC GRILL - RETURN
- HVAC GRILL - EXHAUST
- 2x2 LAY-IN ACOUSTICAL CEILING
- GYPSUM BOARD CEILING
- SOFFIT MOUNTED FIXTURE
- EXIT LIGHT WITH DIRECTIONAL ARROWS
- SUSPENDED TRANSLUCENT ACCENT CLOUD
- GYPSUM BOARD CEILING ABOVE 2x2 LAY-IN ACOUSTICAL CEILING SEE PARTITION TYPES
- FIBER-CEMENT PANEL SYSTEM CEILING/SOFFIT, FCC-1. REFER TO FINISH LEGEND FOR DETAIL.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

REVISIONS

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DATE ISSUED:	02/15/2022
REVIEWED BY:	HAW
DRAWN BY:	CJ
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PROJECT NUMBER:
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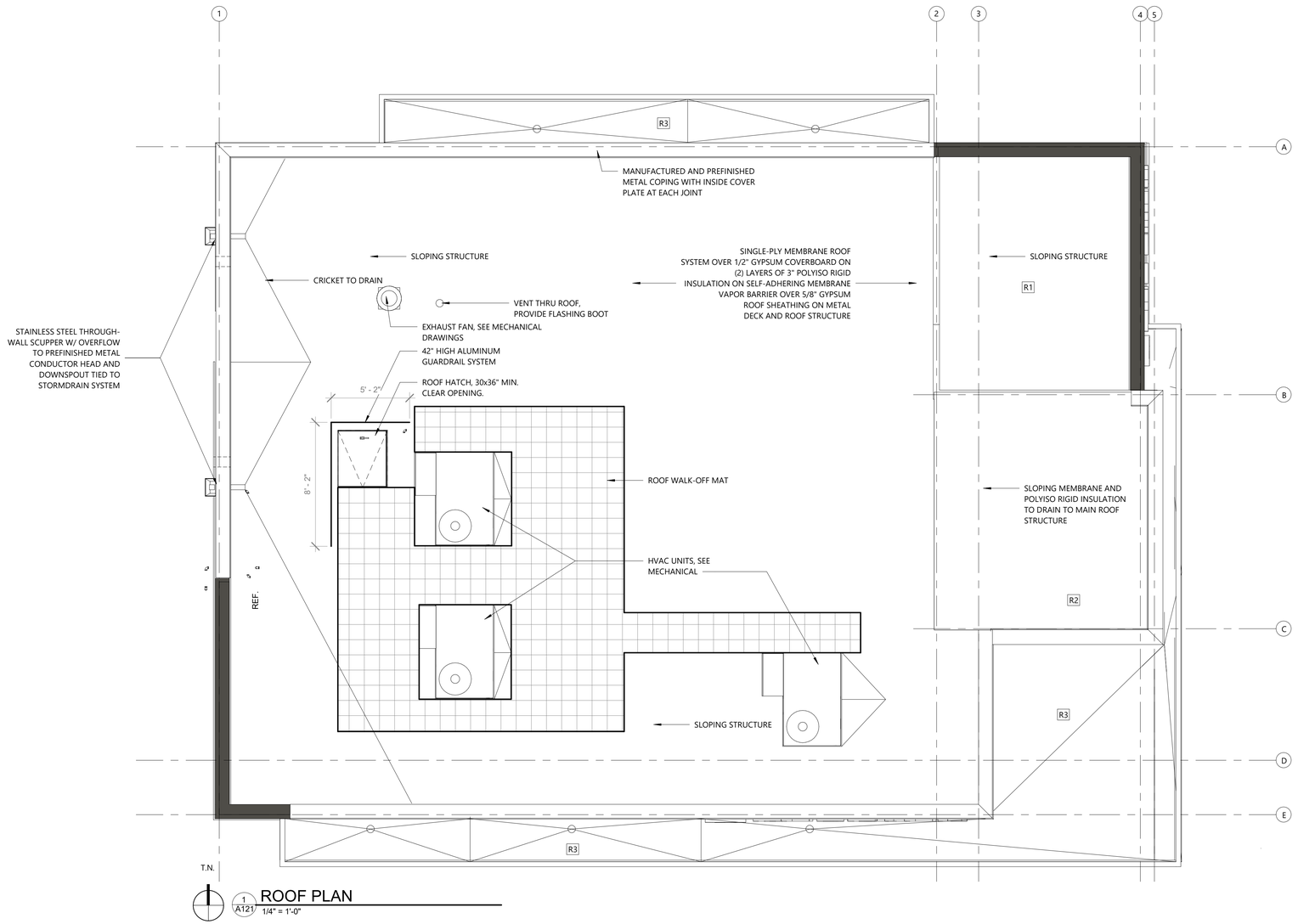
SHEET TITLE:

REFLECTED CEILING PLAN

SHEET ID:

A111

PROJECT STATUS:
PERMIT DOCUMENTS



ROOF PLAN GENERAL NOTES

1. ALL ROOFING SYSTEMS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDED ROOFING DETAILS. THESE DETAILS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE ROOFING INSTALLATION.
2. ROOFING DETAILS SHALL NOT AT ANY TIME OR IN ANY WAY COMPROMISE THE WARRANTY PROVIDED BY THE ROOFING MANUFACTURER.
3. ALL ROOFS SHALL BE SLOPED EITHER BY STRUCTURAL DESIGN OR BY TAPERED INSULATION IN ORDER TO PROMOTE POSITIVE DRAINAGE AT ALL TIMES.

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

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DESIGNED BY: RSH
PROJECT NUMBER:
524-0368-028

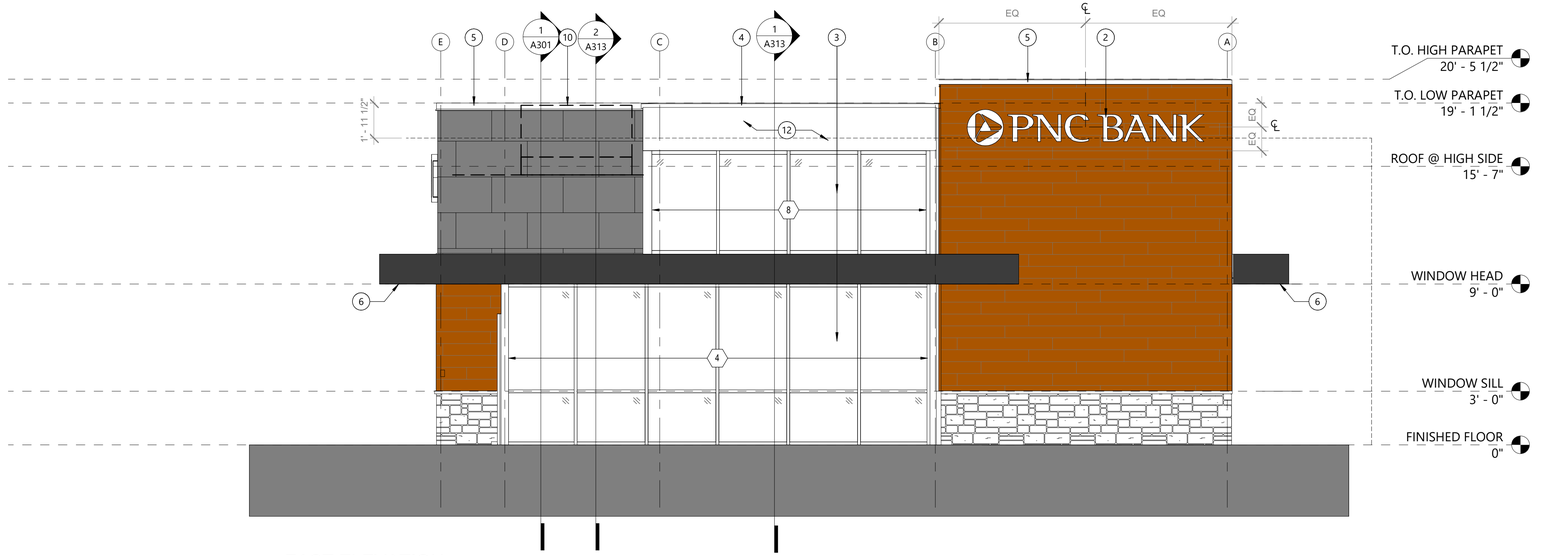
SHEET TITLE:

ROOF PLAN

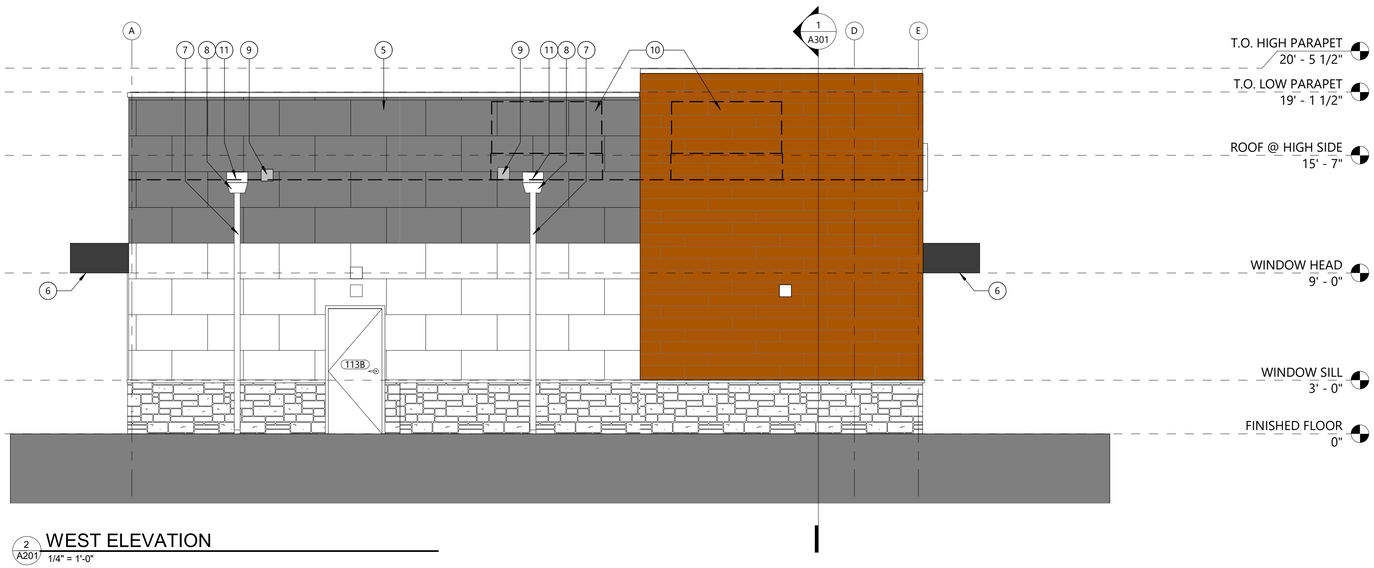
SHEET ID:

A121

PROJECT STATUS:
PERMIT DOCUMENTS



1 A201 EAST ELEVATION
1/4" = 1'-0"



2 A201 WEST ELEVATION
1/4" = 1'-0"

EXTERIOR FINISH LEGEND

	FCP-1	FIBER CEMENT PANEL (REDWOOD): MATERIAL: FIBER CEMENT PANEL FINISH: INTEGRATED FINISH MANUFACTURER: NICHIHA VINTAGEWOOD COLOR: REDWOOD
	FCP-2	FIBER CEMENT PANEL (GRAY): MATERIAL: FIBER CEMENT PANEL FINISH: INTEGRATED FINISH MANUFACTURER: NICHIHA ILLUMINATION COLOR: FOG
	FCP-3	FIBER CEMENT PANEL (WHITE): MATERIAL: FIBER CEMENT PANEL FINISH: INTEGRATED FINISH MANUFACTURER: NICHIHA ILLUMINATION COLOR: COTTON
	FCP-4	FIBER CEMENT PANEL (MOUNTAIN): MATERIAL: FIBER CEMENT PANEL FINISH: INTEGRATED FINISH MANUFACTURER: NICHIHA KURASTONE SERIES STACKEDSTONE COLOR: MOUNTAIN
	MP-1	BASE BID METAL PANEL SYSTEM AT CANOPY (GRAY): MATERIAL: METAL PANEL FINISH: INTEGRATED FINISH MANUFACTURER: LAMINATORS, INC.; OMEGA LITE; 1PIECE, TIGHT-FIT MOLDING INSTALLATION SYSTEM COLOR: TO MATCH PANTONE 426 C ALTERNATE: #1: IN LIEU OF BASE BID ACM AND ACM MOUNTING INSTALLATION SYSTEM, PROVIDE AND INSTALL THE FOLLOWING: ACM MANUFACTURER: FAIRVIEW ARCHITECTURAL ACM PANEL: VITROBOND G2 CLIP MOUNTING SYSTEM: ARROWHEAD EZ WALL SYSTEM KYNAR FINISH: CUSTOM COLOR, COLOR TO MATCH PANTONE 426 C #2: IN LIEU OF BASE BID ACM AND ACM MOUNTING INSTALLATION SYSTEM, PROVIDE AND INSTALL THE FOLLOWING: ACM MANUFACTURER: CITADEL ARCHITECTURAL PRODUCTS ACM PANEL: SINOCORE 4MM PANEL THICKNESS, 1 PC MOLDING SYSTEM CLIP MOUNTING SYSTEM: REVEAL MOLDING SYSTEM FINISH: KYNAR, CUSTOM COLOR, COLOR: TO MATCH PANTONE 426 C **REFER TO FULL LIST OF ALTERNATES IN OUTLINE SPECIFICATIONS.**

ELEVATION KEY NOTES

1. 24" HIGH ILLUMINATED BUILDING MOUNTED SIGNAGE BY OTHERS. REFER TO ELECTRICAL FOR POWER REQUIREMENTS. COORDINATE WITH PNC AND VENDOR(S). ALL CONNECTIONS - STRUCTURAL ENGINEERING, DETAILS, ETC., ARE SUPPLIED BY VENDOR.
2. 18" HIGH ILLUMINATED BUILDING SIGNAGE BY OTHERS. REFER TO ELECTRICAL FOR POWER REQUIREMENTS. COORDINATE WITH PNC AND VENDOR(S). ALL CONNECTIONS - STRUCTURAL ENGINEERING, DETAILS, ETC., ARE SUPPLIED BY VENDOR.
3. CLEAR ANODIZED STOREFRONT SYSTEM
4. METAL COPING SYSTEM, COLOR TO MATCH CLEAR ANODOZED STOREFRONT SYSTEM
5. METAL COPING SYSTEM, COLOR TO MATCH MP-1
6. SEE ELECTRICAL SHEETS FOR COORDINATION OF CANOPY LIGHTING.
7. 4"X4" PREFINISHED METAL DOWNSPOUT, CONNECT TO STORM UNDERGROUND
8. PREFINISHED METAL CONDUCTOR BOX SMACNA DESIGN FIGURE 1-25F
9. PREFINISHED METAL OVERFLOW SCUPPER PER SMACNA, OPENING SIZE 8"X8" WITH 2" TRIM PLACED 2" ABOVE ROOF LINE.
10. RTUs SCREENED BY PARAPET WALL BEYOND, COORDINATE WITH A121 AND MECHANICAL DRAWINGS.
11. PREFINISHED METAL THROUGH WALL SCUPPER PER SMACNA, OPENING SIZE 8"X8" WITH 2" TRIM
12. COMPOSITE ALUMINUM PANEL TO MATCH FCP-3

SHEET NOTES

1. G.C. TO PROVIDE A FIELD MOCK-UP OF NICHIHA ILLUMINATION PANEL, VINTAGEWOOD, KURASTONE, AND OMEGA LITE PANEL SYSTEM WITH ALL CONDITIONS PRESENT ON THE PROJECT INCLUDING BUT NOT LIMITED TO INSIDE CORNERS, OUTSIDE CORNER, HORIZONTAL TERMINATION, ETC.
2. NICHIHA KURASTONE PANELS SHALL BE FIELD CUT TO TERMINATE AT 2" ABOVE FINISHED GRADE AND FOLLOW FINISHED GRADING.

(X) DENOTES WINDOW TYPE - PENDING CDs

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	HAW
DRAWN BY:	CJ
DESIGNED BY:	RSH
PROJECT NUMBER:	

524-0368-028

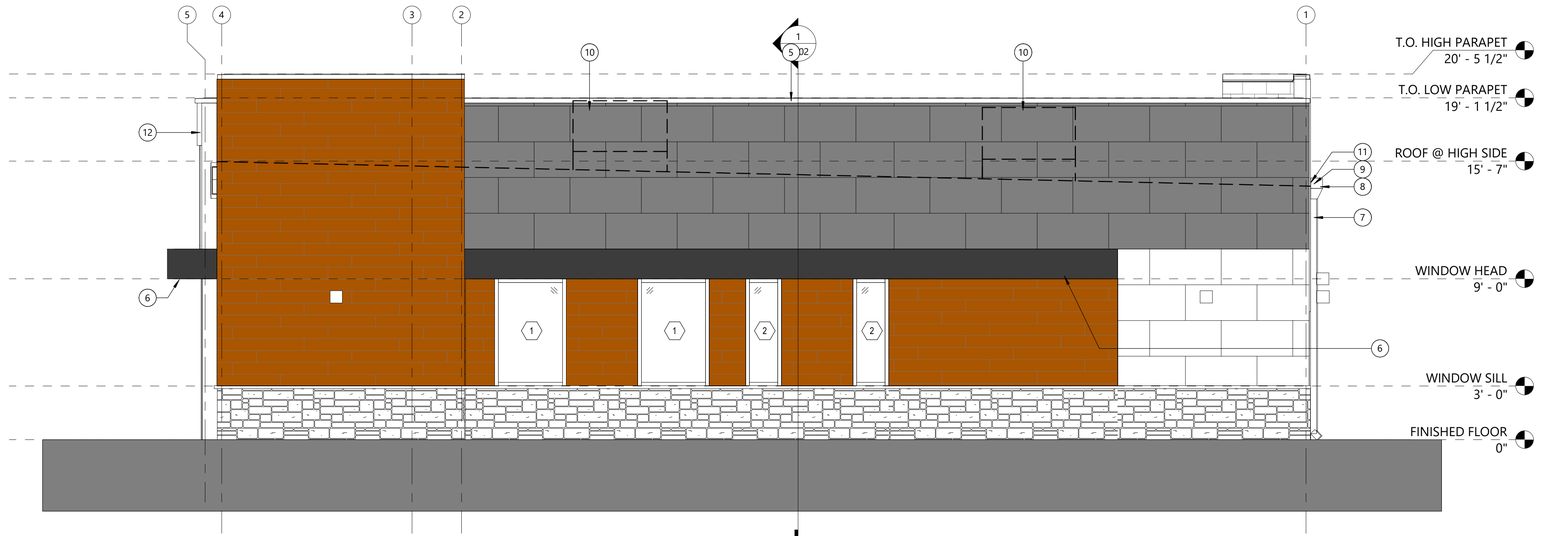
SHEET TITLE:

EXTERIOR ELEVATIONS

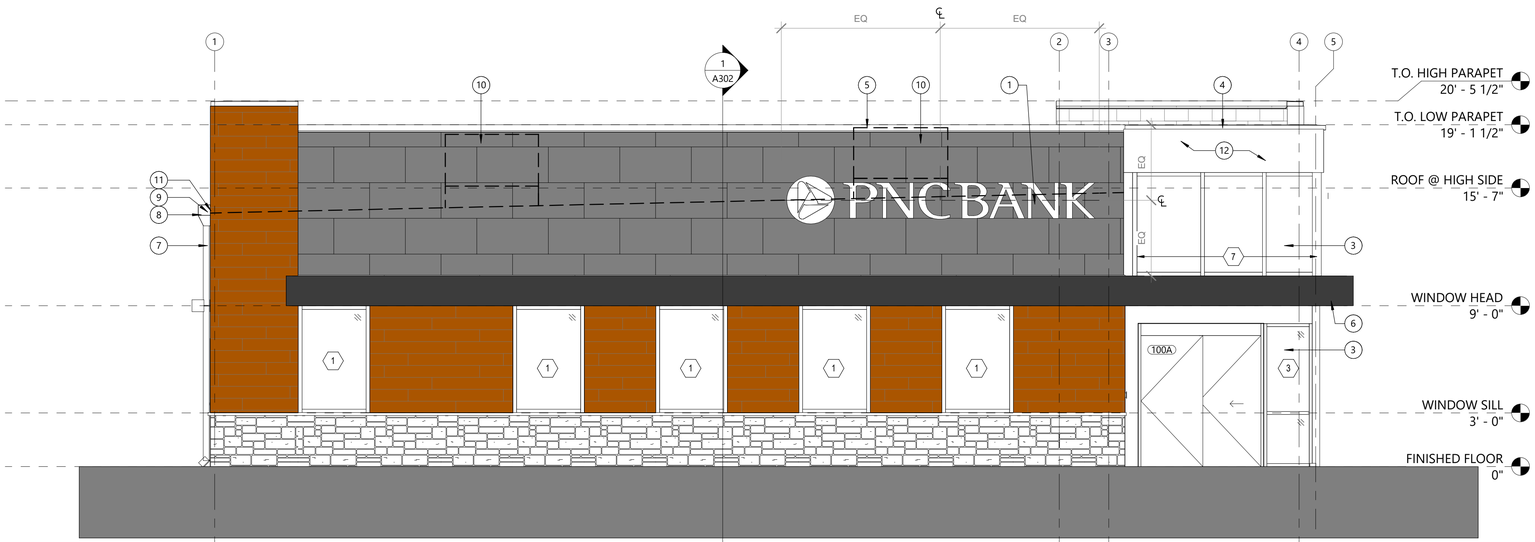
SHEET ID:

A201

PROJECT STATUS:
PERMIT DOCUMENTS



1 A202 NORTH ELEVATION
1/4" = 1'-0"



2 A202 SOUTH ELEVATION
1/4" = 1'-0"

EXTERIOR FINISH LEGEND

FCP-1 FIBER CEMENT PANEL (REDWOOD):
MATERIAL: FIBER CEMENT PANEL
FINISH: INTEGRATED FINISH
MANUFACTURER: NICHIHA VINTAGEWOOD
COLOR: REDWOOD

FCP-2 FIBER CEMENT PANEL (GRAY):
MATERIAL: FIBER CEMENT PANEL
FINISH: INTEGRATED FINISH
MANUFACTURER: NICHIHA ILLUMINATION
COLOR: FOG

FCP-3 FIBER CEMENT PANEL (WHITE):
MATERIAL: FIBER CEMENT PANEL
FINISH: INTEGRATED FINISH
MANUFACTURER: NICHIHA ILLUMINATION
COLOR: COTTON

FCP-4 FIBER CEMENT PANEL (MOUNTAIN):
MATERIAL: FIBER CEMENT PANEL
FINISH: INTEGRATED FINISH
MANUFACTURER: NICHIHA KURASTONE SERIES STACKEDSTONE
COLOR: MOUNTAIN

MP-1 BASE BID METAL PANEL SYSTEM AT CANOPY (GRAY):
MATERIAL: METAL PANEL
FINISH: INTEGRATED FINISH
MANUFACTURER: LAMINATORS, INC.; OMEGA LITE; 1PIECE, TIGHT-FIT MOLDING INSTALLATION SYSTEM
COLOR: TO MATCH PANTONE 426 C

ALTERNATE:
#1: IN LIEU OF BASE BID ACM AND ACM MOUNTING INSTALLATION SYSTEM,
PROVIDE AND INSTALL THE FOLLOWING:

ACM MANUFACTURER: FAIRVIEW ARCHITECTURAL
ACM PANEL: VITROBOND G2
CLIP MOUNTING SYSTEM: ARROWHEAD EZ WALL SYSTEM
KYNAR FINISH: CUSTOM COLOR, COLOR TO MATCH PANTONE 426 C

#2: IN LIEU OF BASE BID ACM AND ACM MOUNTING INSTALLATION SYSTEM,
PROVIDE AND INSTALL THE FOLLOWING:

ACM MANUFACTURER: CITADEL ARCHITECTURAL PRODUCTS
ACM PANEL: SINOCORE 4MM PANEL THICKNESS, 1 PC MOLDING SYSTEM
CLIP MOUNTING SYSTEM: REVEAL MOLDING SYSTEM
FINISH: KYNAR, CUSTOM COLOR, COLOR: TO MATCH PANTONE 426 C

REFER TO FULL LIST OF ALTERNATES IN OUTLINE SPECIFICATIONS.

ELEVATION KEY NOTES

1. 24" HIGH ILLUMINATED BUILDING MOUNTED SIGNAGE BY OTHERS. REFER TO ELECTRICAL FOR POWER REQUIREMENTS. COORDINATE WITH PNC AND VENDOR(S). ALL CONNECTIONS - STRUCTURAL ENGINEERING, DETAILS, ETC., ARE SUPPLIED BY VENDOR.
2. 18" HIGH ILLUMINATED BUILDING SIGNAGE BY OTHERS. REFER TO ELECTRICAL FOR POWER REQUIREMENTS. COORDINATE WITH PNC AND VENDOR(S). ALL CONNECTIONS - STRUCTURAL ENGINEERING, DETAILS, ETC., ARE SUPPLIED BY VENDOR.
3. CLEAR ANODIZED STOREFRONT SYSTEM
4. METAL COPING SYSTEM, COLOR TO MATCH CLEAR ANODOZED STOREFRONT SYSTEM
5. METAL COPING SYSTEM, COLOR TO MATCH MP-1
6. SEE ELECTRICAL SHEETS FOR COORDINATION OF CANOPY LIGHTING.
7. 4"X4" PREFINISHED METAL DOWNSPOUT, CONNECT TO STORM UNDERGROUND
8. PREFINISHED METAL CONDUCTOR BOX SMACNA DESIGN FIGURE 1-25F
9. PREFINISHED METAL OVERFLOW SCUPPER PER SMACNA, OPENING SIZE 8"X8" WITH 2" TRIM PLACED 2" ABOVE ROOF LINE.
10. RTUs SCREENED BY PARAPET WALL BEYOND, COORDINATE WITH A121 AND MECHANICAL DRAWINGS.
11. PREFINISHED METAL THROUGH WALL SCUPPER PER SMACNA, OPENING SIZE 8"X8" WITH 2" TRIM
12. COMPOSITE ALUMINUM PANEL TO MATCH FCP-3

SHEET NOTES

1. G.C. TO PROVIDE A FIELD MOCK-UP OF NICHIHA ILLUMINATION PANEL, VINTAGEWOOD, KURASTONE, AND OMEGA LITE PANEL SYSTEM WITH ALL CONDITIONS PRESENT ON THE PROJECT INCLUDING BUT NOT LIMITED TO INSIDE CORNERS, OUTSIDE CORNER, HORIZONTAL TERMINATION, ETC.
2. NICHIHA KURASTONE PANELS SHALL BE FIELD CUT TO TERMINATE AT 2" ABOVE FINISHED GRADE AND FOLLOW FINISHED GRADING.

(X) DENOTES WINDOW TYPE - PENDING CDs

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PNC

PROJECT TITLE:

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LEE'S SUMMIT, MO 64081

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HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

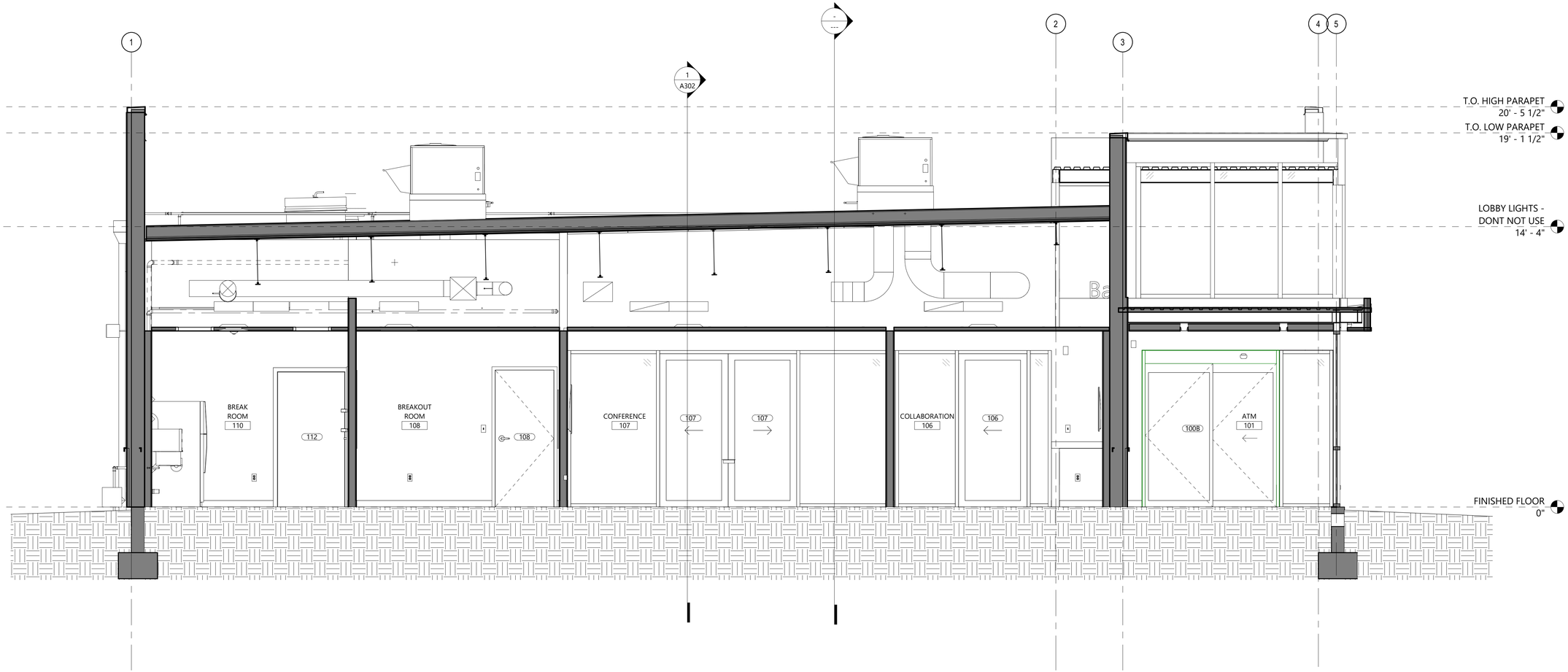
NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: HAW
DRAWN BY: CJ
DESIGNED BY: RSH
PROJECT NUMBER:
524-0368-028

SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET ID:
A202

PROJECT STATUS:
PERMIT DOCUMENTS



1 A301 LONGITUDINAL SECTION
3/8" = 1'-0"

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DRAWN BY:	CJ/KK
DESIGNED BY:	RSH
PROJECT NUMBER:	

524-0368-028

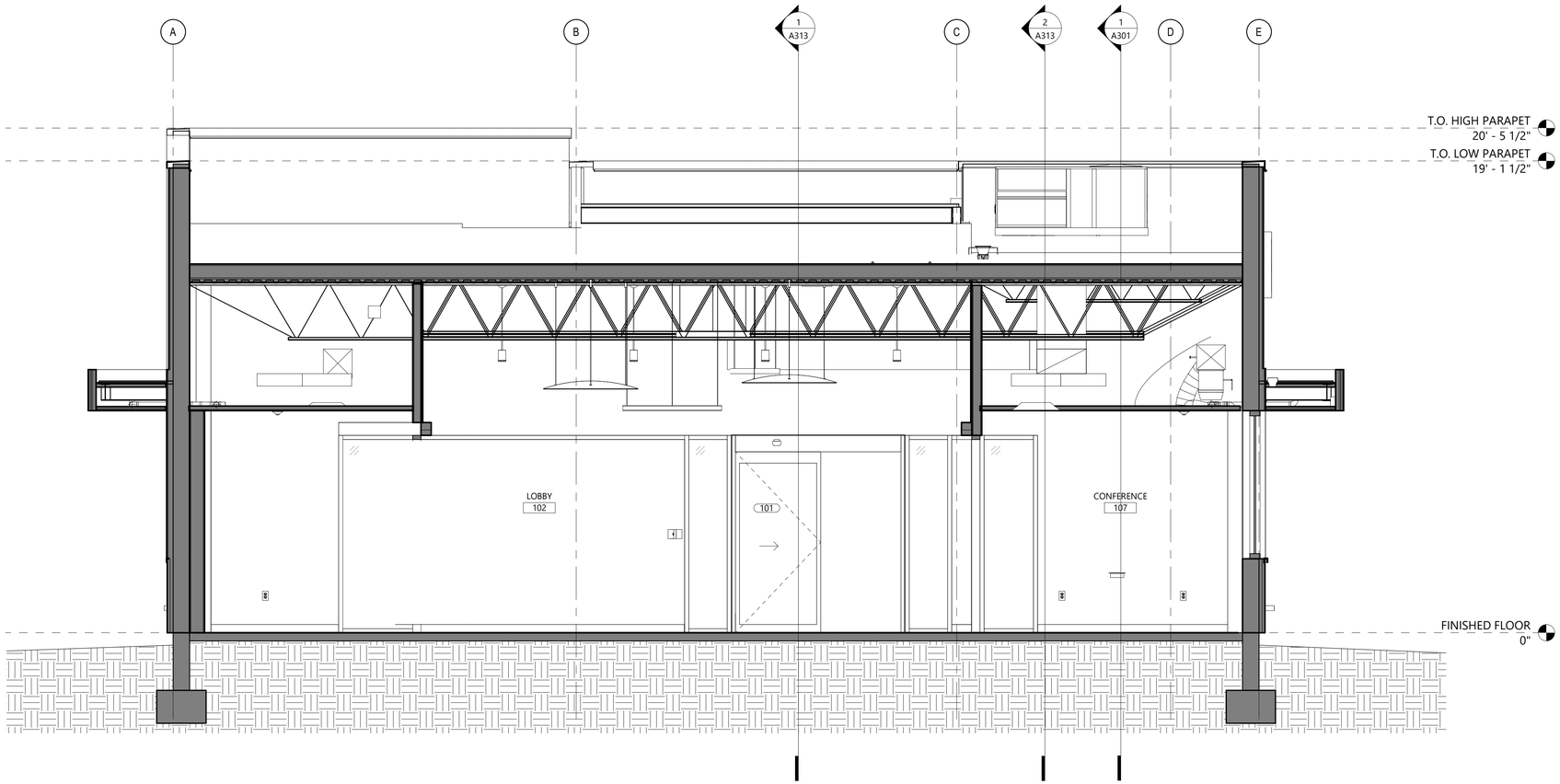
SHEET TITLE:

BUILDING SECTION

SHEET ID:

A301

PROJECT STATUS:
PERMIT DOCUMENTS



1 A302 TRANSVERSE SECTION
3/8" = 1'-0"

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DRAWN BY:	CJ/KK
DESIGNED BY:	RSH

PROJECT NUMBER:
524-0368-028

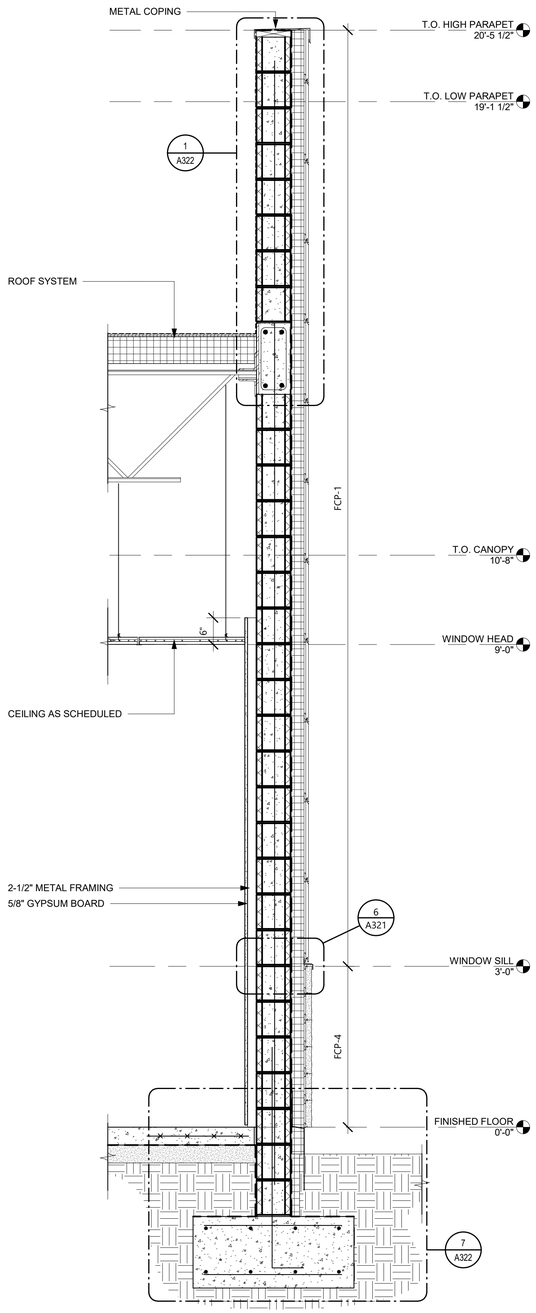
SHEET TITLE:

BUILDING SECTION

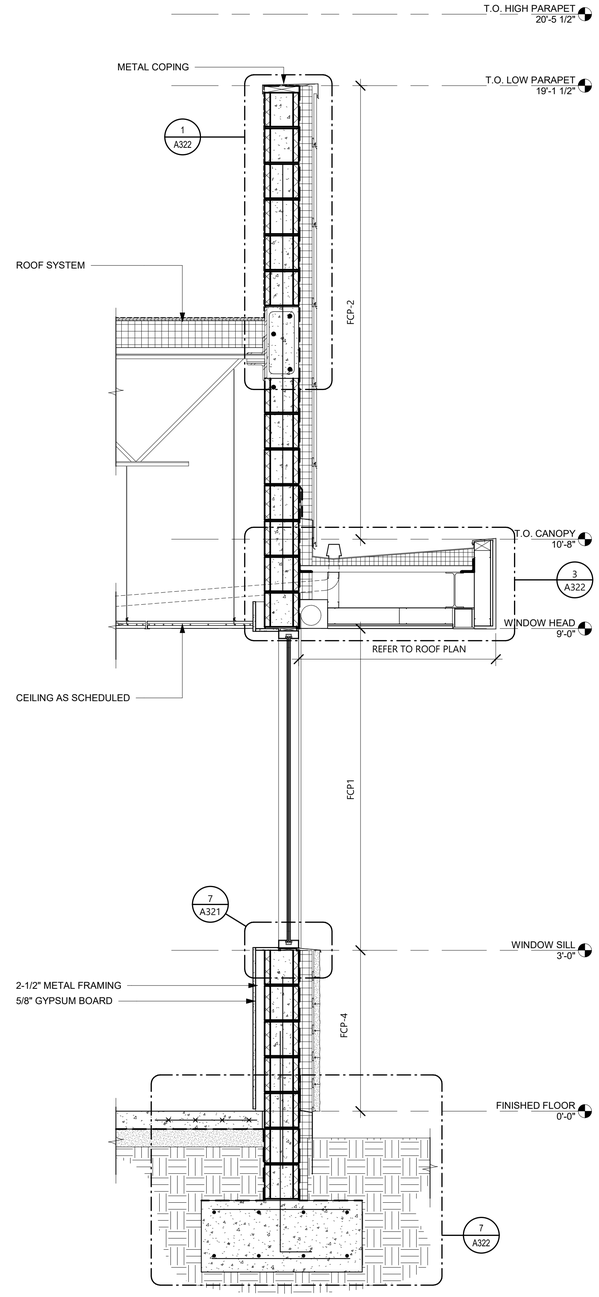
SHEET ID:

A302

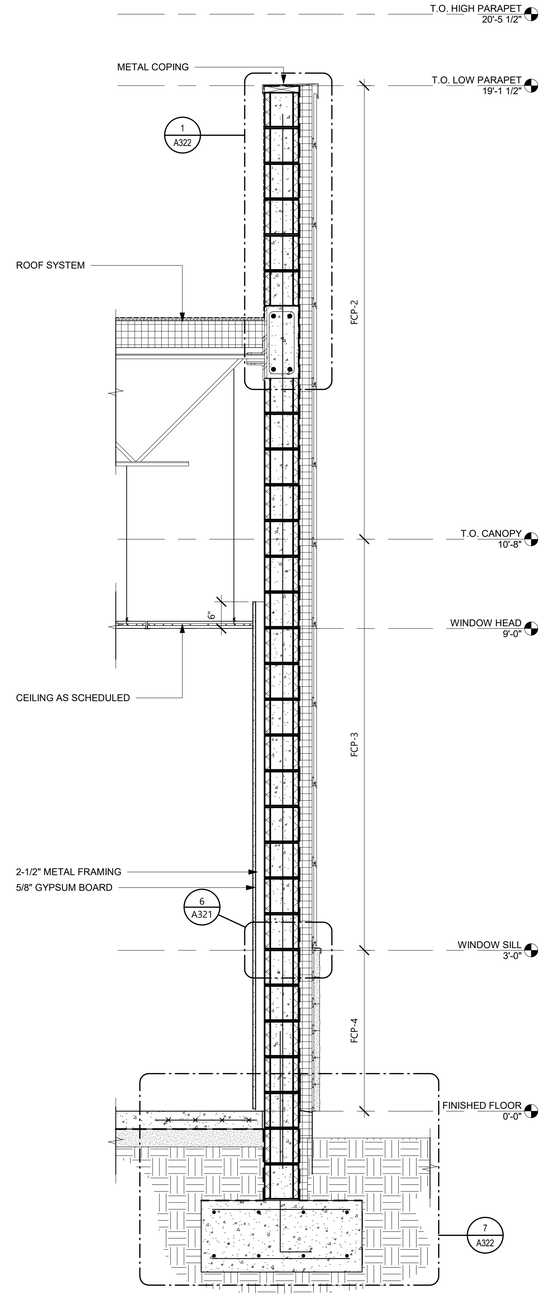
PROJECT STATUS:
PERMIT DOCUMENTS



1 A311 WALL SECTION 1
3/4" = 1'-0"



2 A311 WALL SECTION 2
3/4" = 1'-0"



3 A311 WALL SECTION 3
3/4" = 1'-0"

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REVIEWED BY:	CP
DRAWN BY:	CJ
DESIGNED BY:	RSH
PROJECT NUMBER:	

524-0368-028

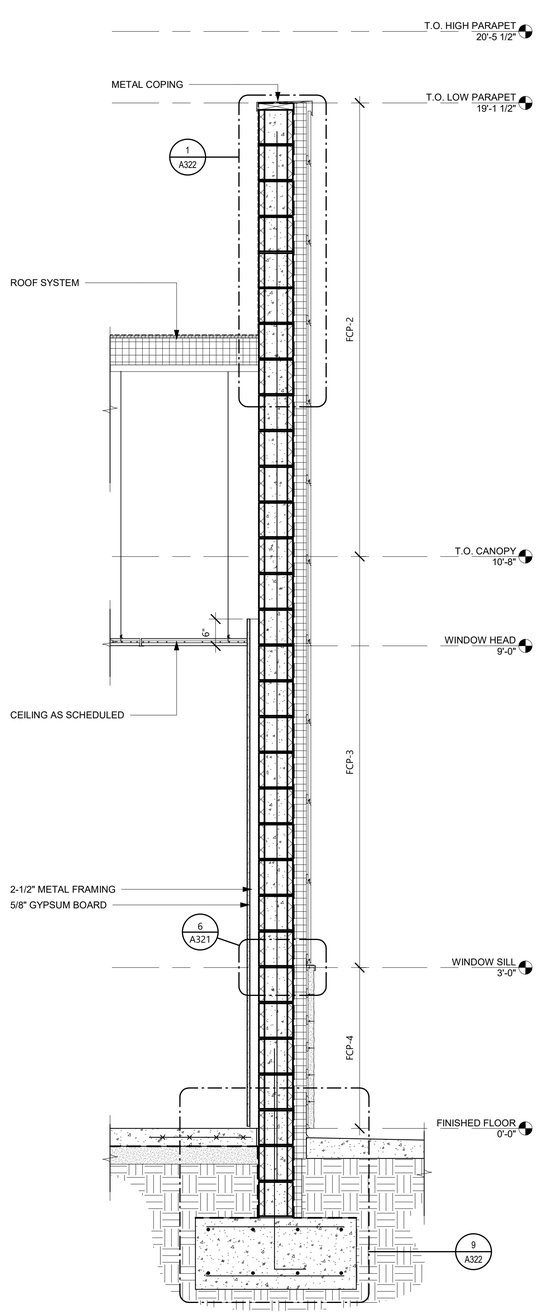
SHEET TITLE:

EXTERIOR WALL SECTIONS

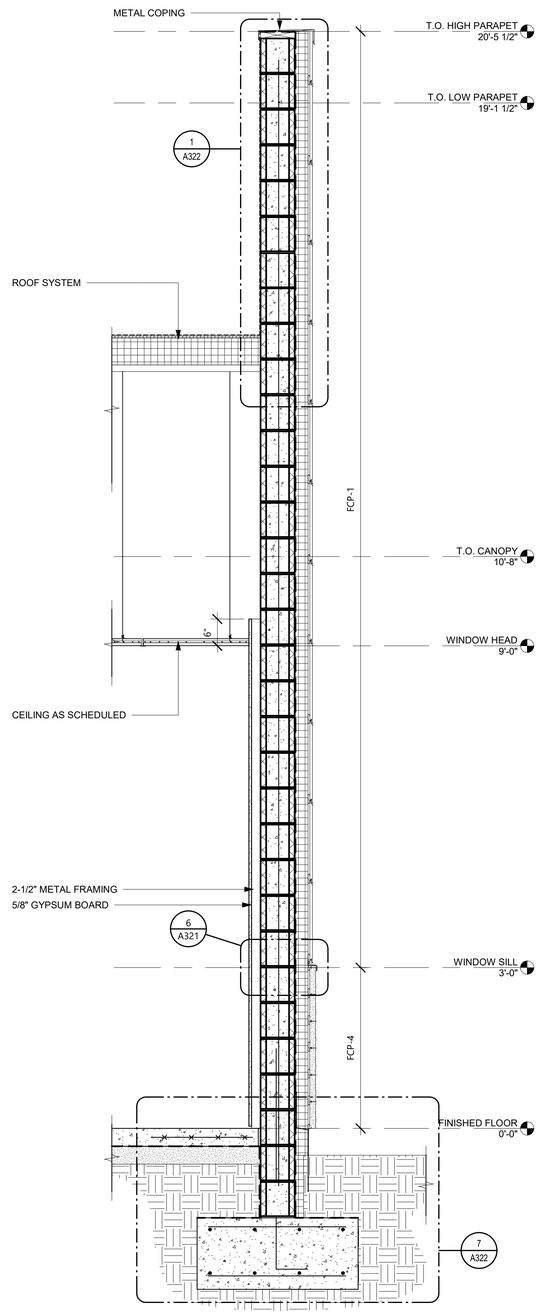
SHEET ID:

A311

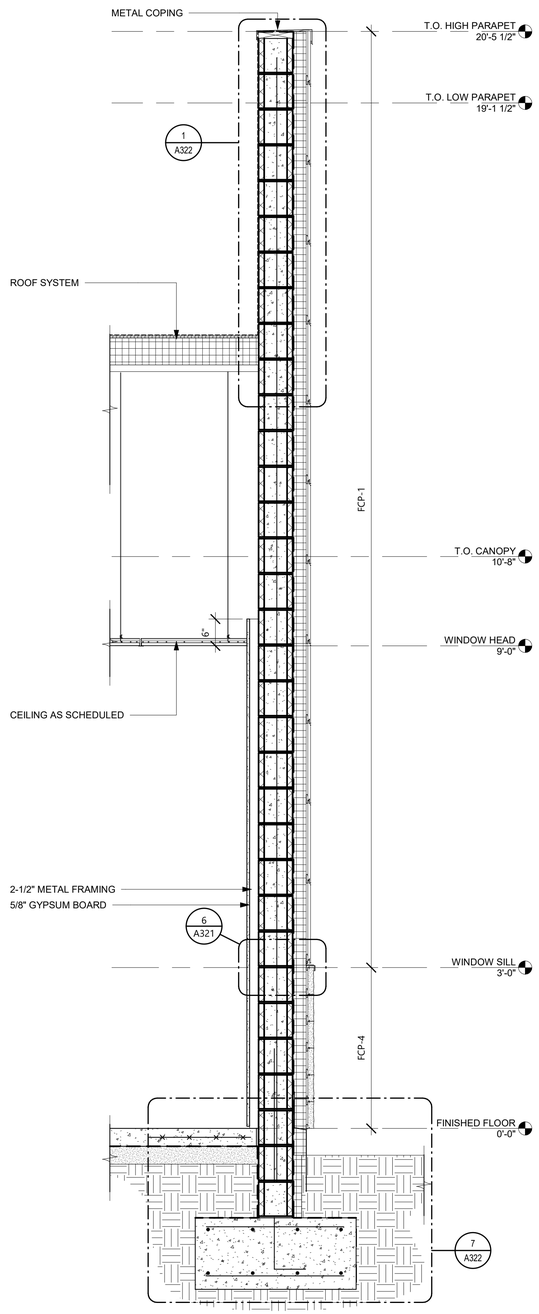
PROJECT STATUS:
PERMIT DOCUMENTS



1 A312 WALL SECTION 4
3/4" = 1'-0"



2 A312 WALL SECTION 5
3/4" = 1'-0"



3 A312 WALL SECTION 6
3/4" = 1'-0"

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LEE'S SUMMIT, MO 64081

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ARCHITECT

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DRAWN BY: CJ
DESIGNED BY: RSH
PROJECT NUMBER:
524-0368-028

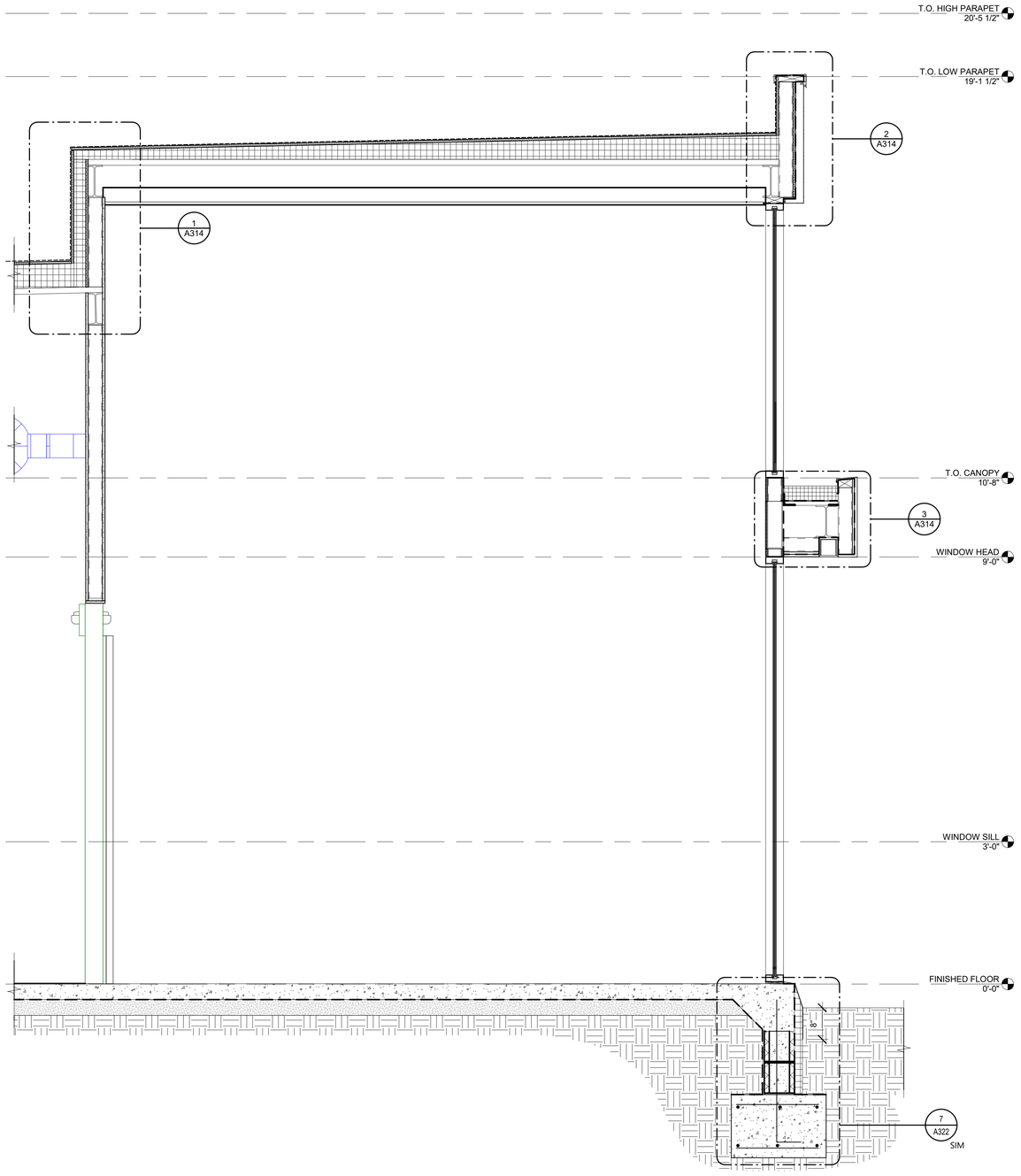
SHEET TITLE:

EXTERIOR WALL SECTIONS

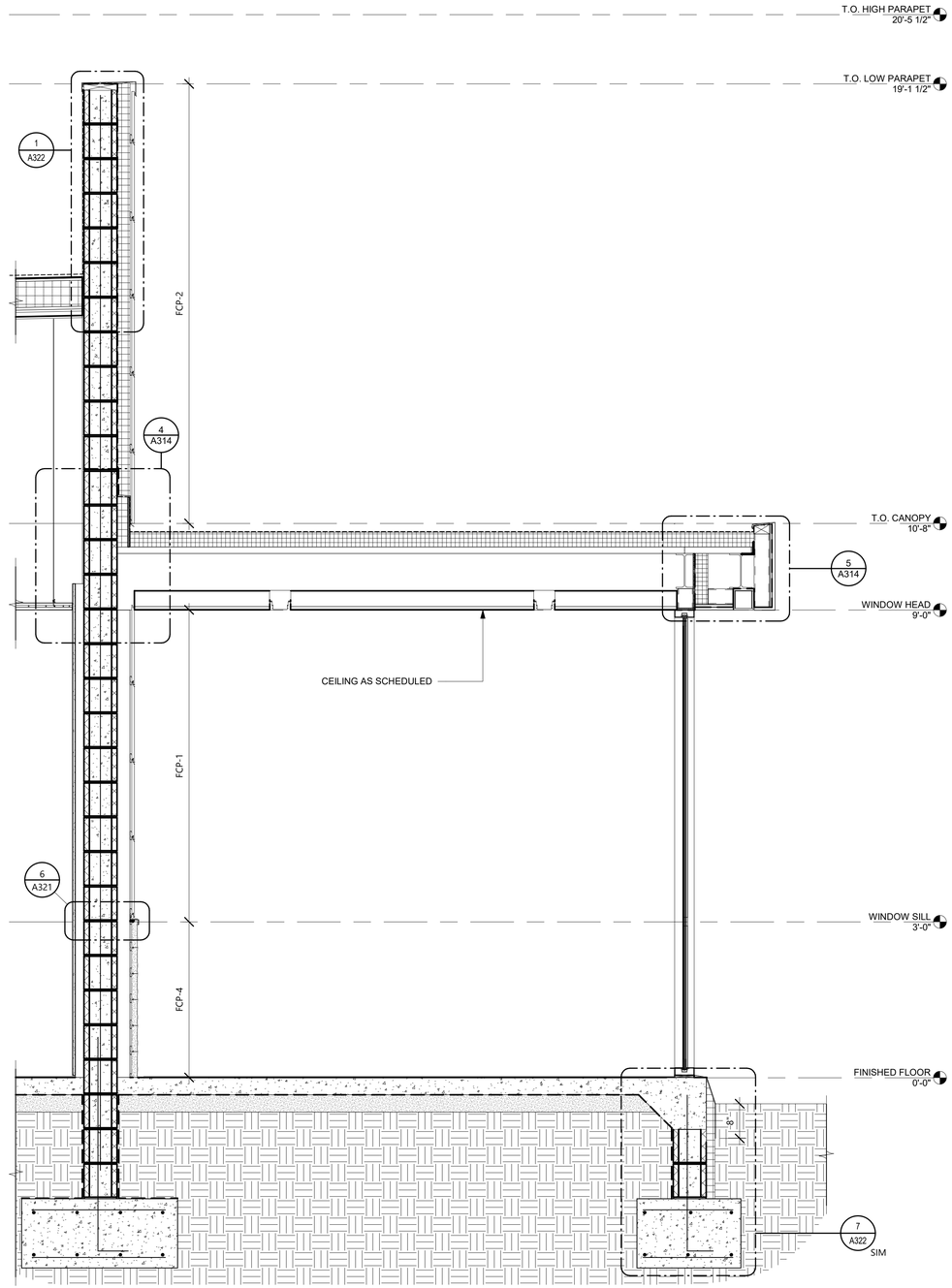
SHEET ID:

A312

PROJECT STATUS:
PERMIT DOCUMENTS



1 A313 Section 1
3/4" = 1'-0"



2 A313 Section 2
3/4" = 1'-0"

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EXTERIOR WALL SECTIONS

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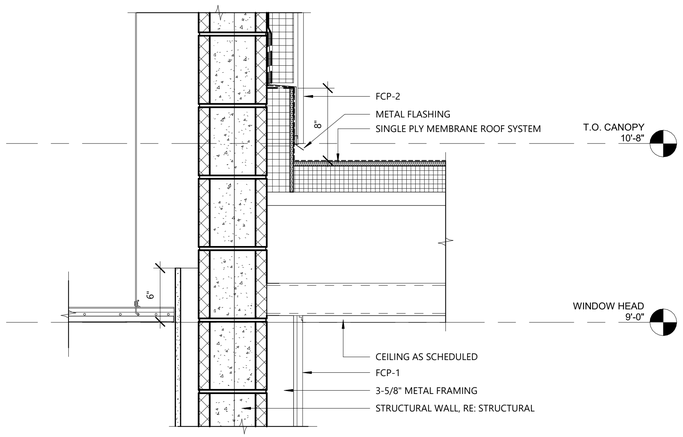
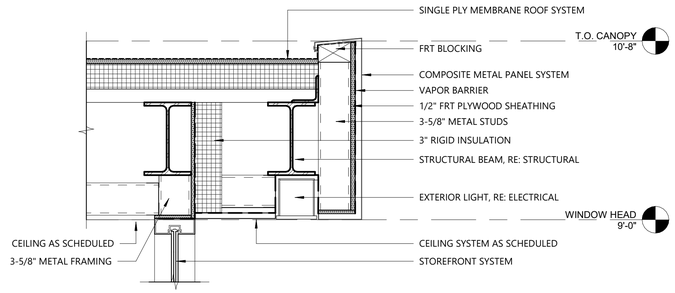


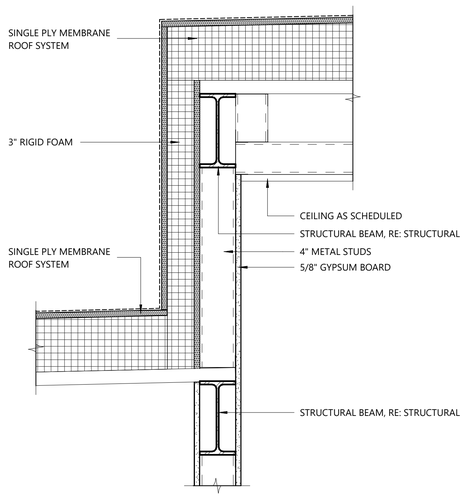
4 A314 WALL DETAIL @ VESTIBULE

1 1/2" = 1'-0"



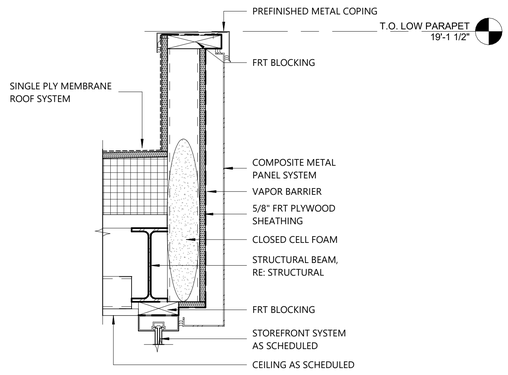
5 A314 WALL DETAIL @ VESTIBULE PARAPET

1 1/2" = 1'-0"



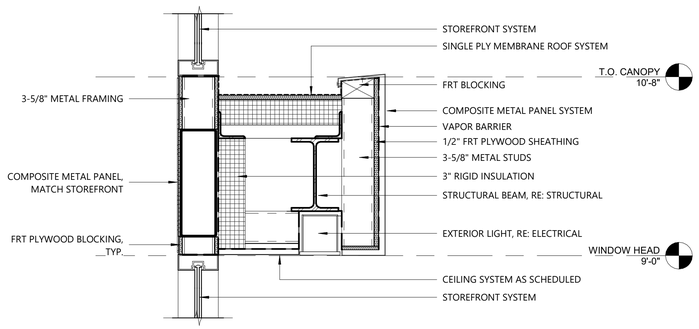
1 A314 WALL DETAIL @ LOBBY PARAPET

1 1/2" = 1'-0"



2 A314 WALL DETAIL @ LOBBY PARAPET 2

1 1/2" = 1'-0"



3 A314 WALL DETAIL @ LOBBY CANOPY

1 1/2" = 1'-0"

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PNC

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PNC MO LEE'S SUMMIT
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PROJECT ADDRESS:

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STATE OF MISSOURI
HILLARY ANDREN-WISE
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 524-0368-028

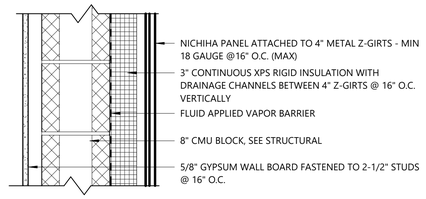
SHEET TITLE:

EXTERIOR WALL SECTIONS

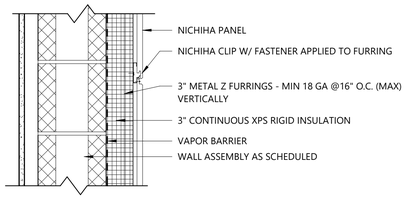
SHEET ID:

A314

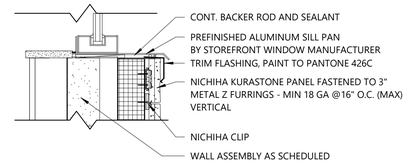
PROJECT STATUS:
PERMIT DOCUMENTS



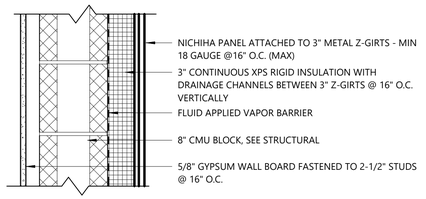
1 A321 FIBER CEMENT WALL SYSTEM - FCP-1
1 1/2" = 1'-0"



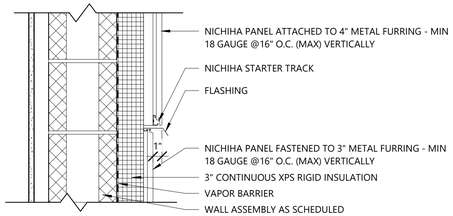
4 A321 TYPICAL NICHIHA PANEL DETAIL
1 1/2" = 1'-0"



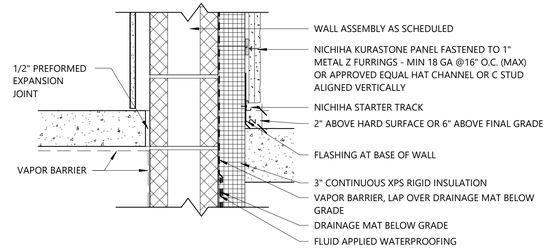
7 A321 WINDOW SILL DETAIL
1 1/2" = 1'-0"



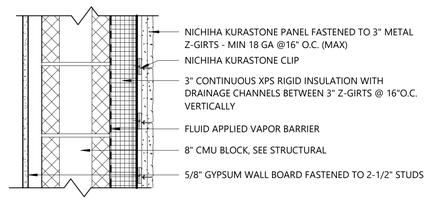
2 A321 FIBER CEMENT WALL SYSTEM - FCP-2 & FCP-3
1 1/2" = 1'-0"



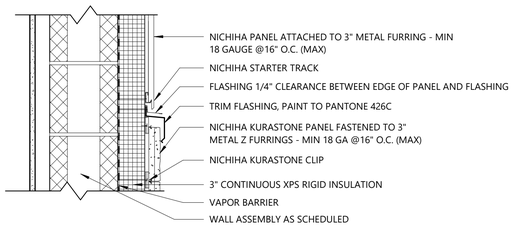
5 A321 NICHIHA PANEL TRANSITION 1
1 1/2" = 1'-0"



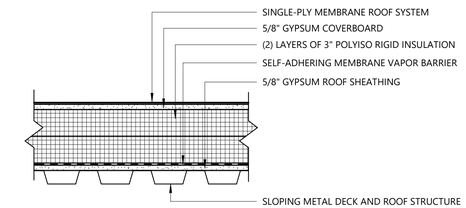
8 A321 SECTION DETAIL @ GRADE
1 1/2" = 1'-0"



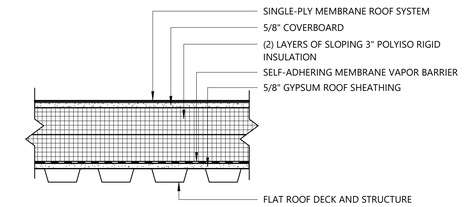
3 A321 FIBER CEMENT WALL SYSTEM - FCP-4
1 1/2" = 1'-0"



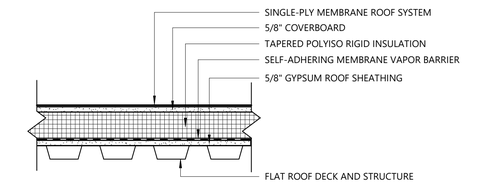
6 A321 NICHIHA PANEL TRANSITION 2
1 1/2" = 1'-0"



9 A321 ROOF SYSTEM - RF-1
1 1/2" = 1'-0"



10 A321 ROOF SYSTEM - RF-2
1 1/2" = 1'-0"



11 A321 ROOF SYSTEM - RF-3
1 1/2" = 1'-0"

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PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	SLC
DRAWN BY:	PAF
DESIGNED BY:	RS&H

PROJECT NUMBER:
524-0368-028

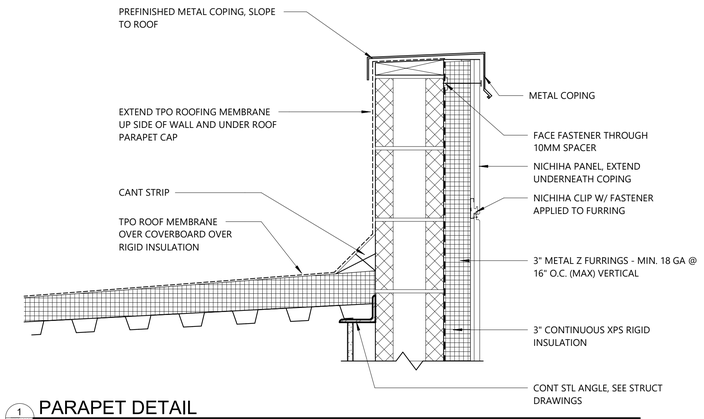
SHEET TITLE:

EXTERIOR WALL DETAILS

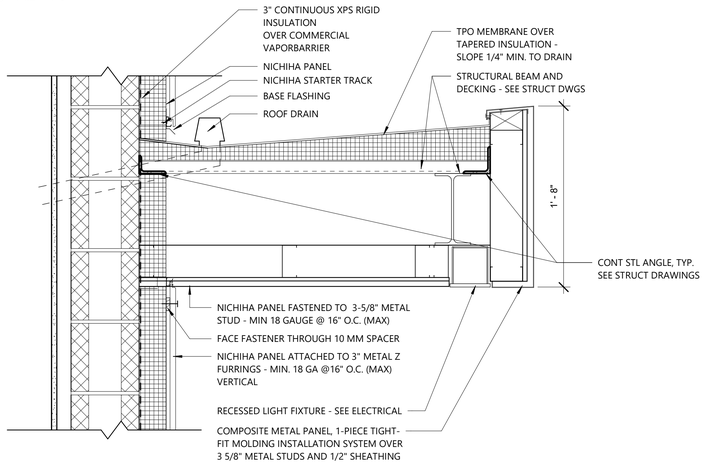
SHEET ID:

A321

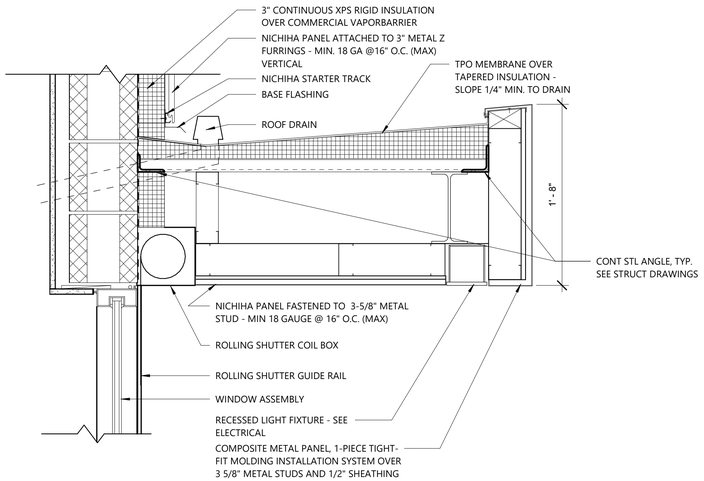
PROJECT STATUS:
PERMIT DOCUMENTS



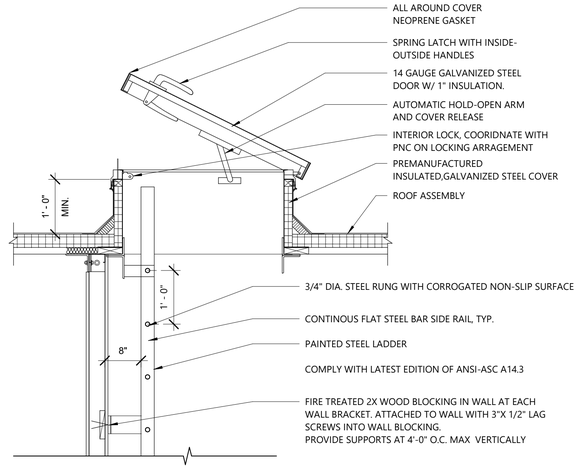
1 A322 PARAPET DETAIL
1 1/2" = 1'-0"



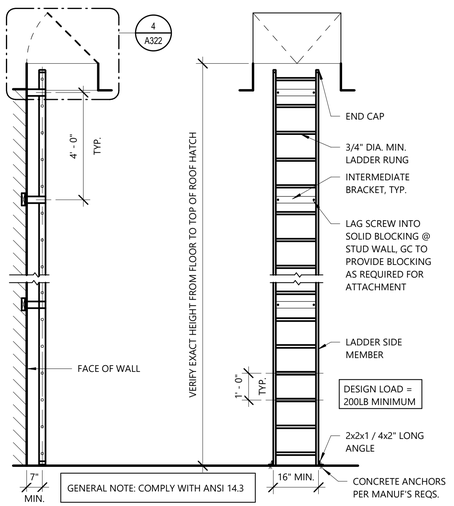
2 A322 TYPICAL CANOPY DETAIL
1 1/2" = 1'-0"



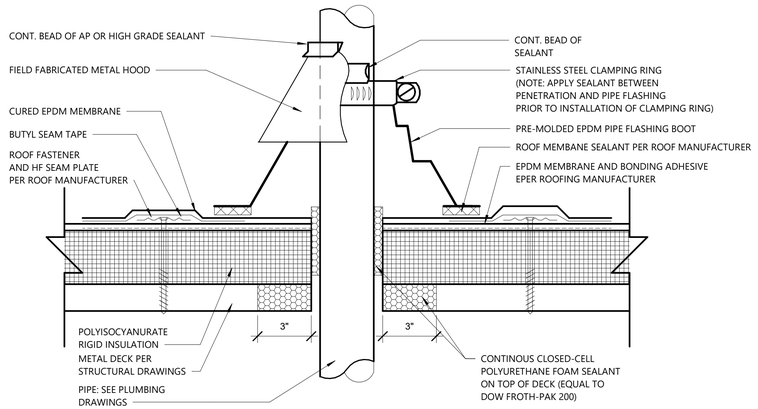
3 A322 CANOPY DETAIL @ WINDOW HEADER
1 1/2" = 1'-0"



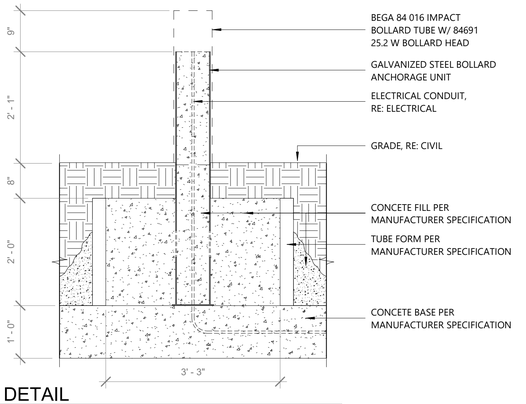
4 A322 ROOF HATCH
3/4" = 1'-0"



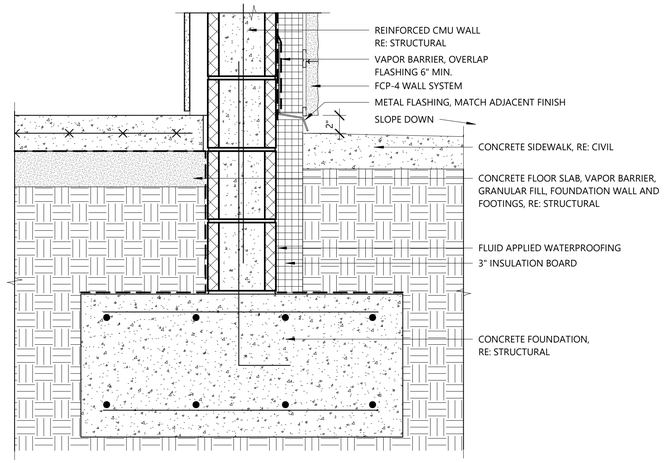
5 A322 ROOF LADDER DETAILS
3/8" = 1'-0"



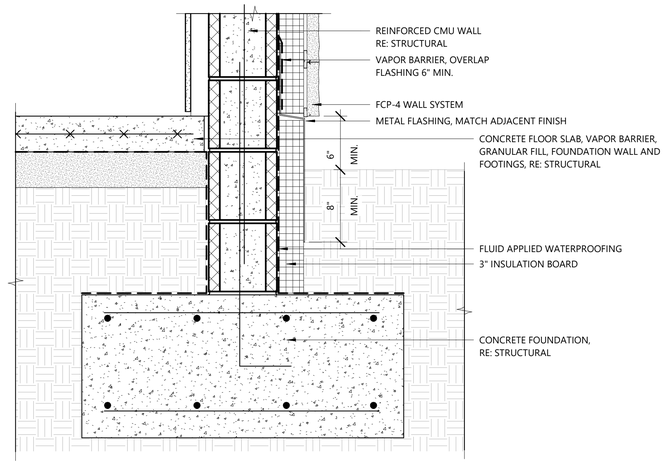
6 A322 PIPE PENETRATION THROUGH ROOF
3" = 1'-0"



8 A322 BOLLARD DETAIL
3/4" = 1'-0"



9 A322 FOUNDATION DETAIL 2
1 1/2" = 1'-0"



7 A322 FOUNDATION DETAIL
1 1/2" = 1'-0"

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www.rsandh.com
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

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524-0368-028

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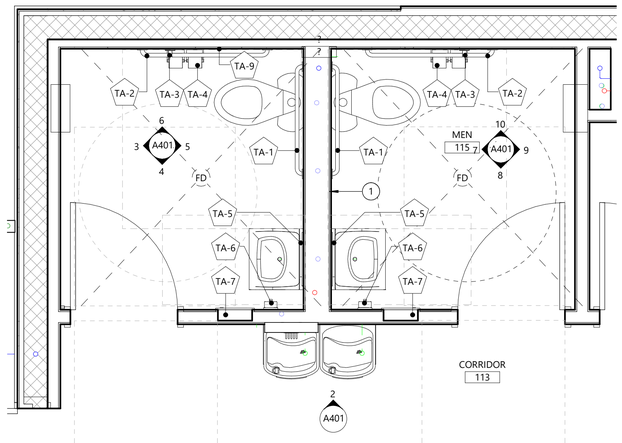
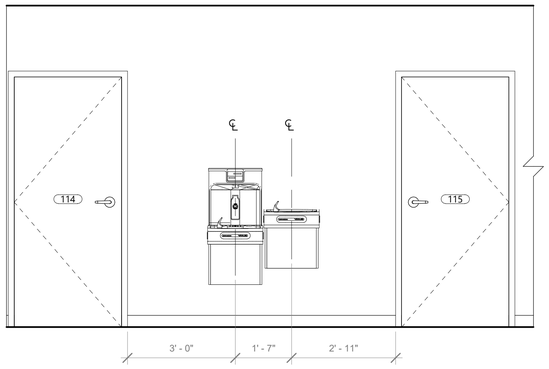


1 A401 ENLARGED RESTROOM PLANS
1/2" = 1'-0"



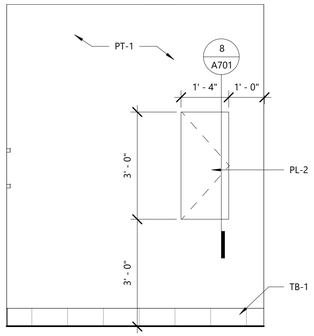
2 A401 CORRIDOR 113 - NORTH
1/2" = 1'-0"

RESTROOM EQUIPMENT SCHEDULE

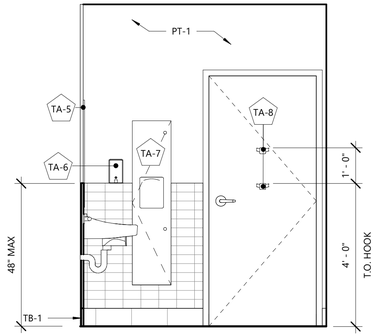
TAG	DESCRIPTION	PRODUCT		FURNISHED BY	INSTALLED BY	FINISH MATERIAL
		MANUFACTURER	MODEL			
TA-1	GRAB BAR	BOBRICK	B-5806-36	G.C.	G.C.	SATIN STAINLESS STEEL
TA-2	GRAB BAR	BOBRICK	B-5806-42	G.C.	G.C.	SATIN STAINLESS STEEL
TA-3	GRAB BAR	BOBRICK	B-5806-18	G.C.	G.C.	SATIN STAINLESS STEEL
TA-4	TOILET TISSUE DISPENSER	BOBRICK	B-265	G.C.	G.C.	STAINLESS STEEL
TA-5	MIRROR	BOBRICK	B-165 -1836	G.C.	G.C.	STAINLESS STEEL
TA-6	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-2111	G.C.	G.C.	STAINLESS STEEL
TA-7	PAPER TOWEL & WASTE RECEPTACLE	BOBRICK	B-38034	G.C.	G.C.	STAINLESS STEEL
TA-8	HOOK	BOBRICK	B-6717	G.C.	G.C.	SATIN STAINLESS STEEL
TA-9	RECESSED SANITARY NAPKIN DISPOSAL	BOBRICK	B-353	G.C.	G.C.	SATIN STAINLESS STEEL
TA-10	TOUCHLESS PAPER TOWEL DISPENSER	GEORGIA-PACIFIC	59466A	G.C.	G.C.	SATIN STAINLESS STEEL

FLOOR PLAN KEY NOTES (X)

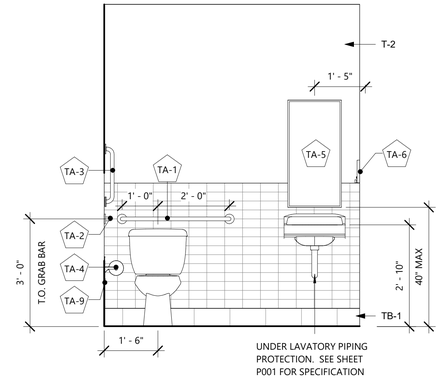
1. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM BOARD AT ALL WET WALL LOCATIONS.BASIS OF DESIGN - NATIONAL GYPSUM "GOLD BOND XP GYPSUM BOARD WITH SPORGARD.



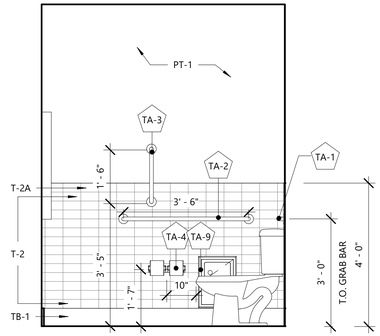
3 A401 WOMEN'S 114 - WEST
1/2" = 1'-0"



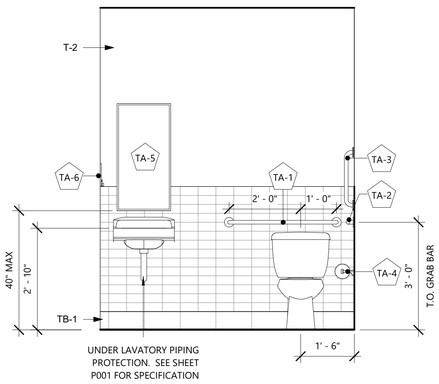
4 A401 WOMEN'S 114 - SOUTH
1/2" = 1'-0"



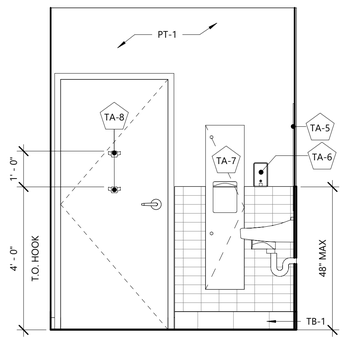
5 A401 WOMEN'S 114 - EAST
1/2" = 1'-0"



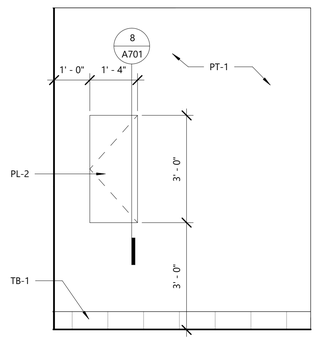
6 A401 WOMEN'S 114 - NORTH
1/2" = 1'-0"



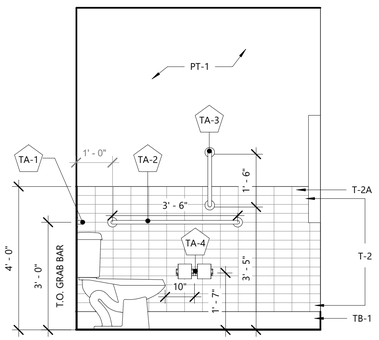
7 A401 MEN'S 115 - WEST
1/2" = 1'-0"



8 A401 MEN'S 115 - SOUTH
1/2" = 1'-0"



9 A401 MEN'S 115 - EAST
1/2" = 1'-0"



10 A401 MEN'S 115 - NORTH
1/2" = 1'-0"

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SUITE 1100, DENVER, CO 80237
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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
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NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	CP
DRAWN BY:	RI/CJ
DESIGNED BY:	RSH
PROJECT NUMBER:	524-0368-028

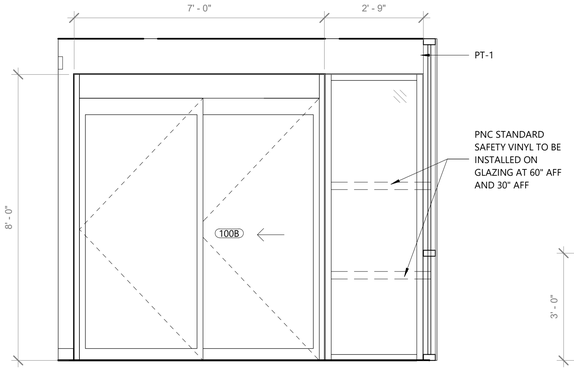
SHEET TITLE:

ENLARGED RESTROOM PLANS AND ELEVATIONS

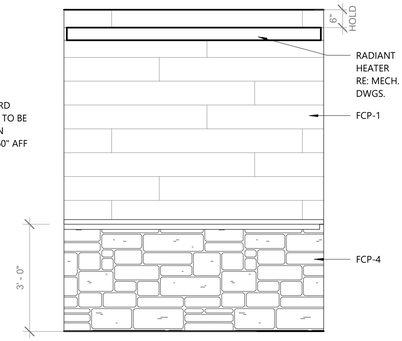
SHEET ID:

A401

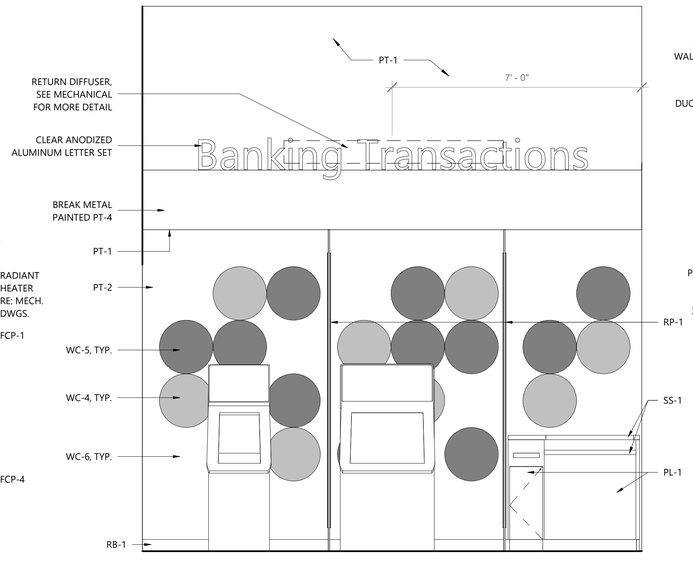
PROJECT STATUS:
PERMIT DOCUMENTS



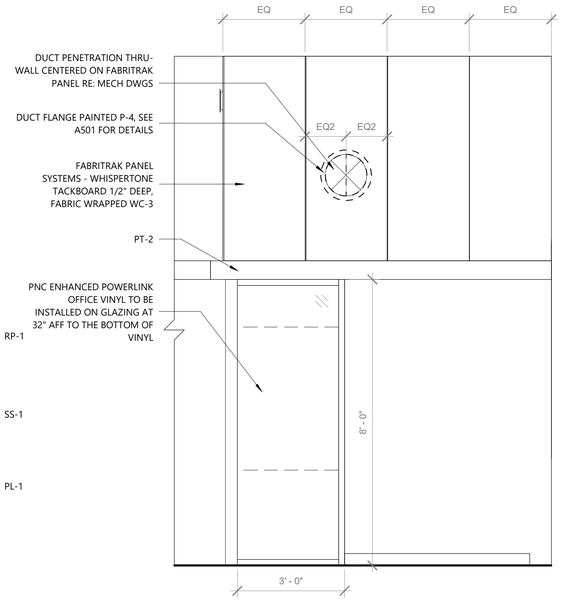
1 A402 VESTIBULE 100 - NORTH
1/2" = 1'-0"



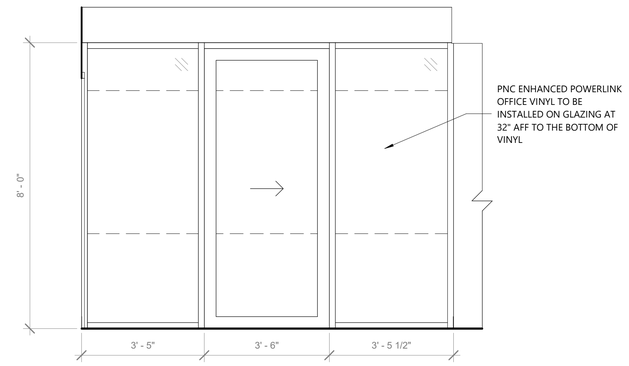
2 A402 VESTIBULE 100 - WEST
1/2" = 1'-0"



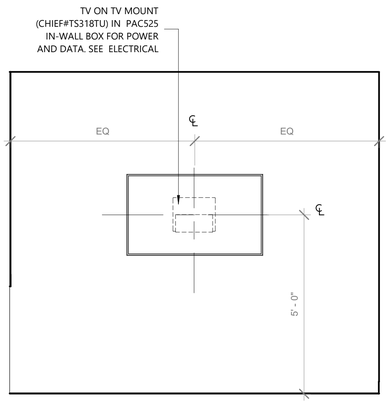
3 A402 ATM 101 - NORTH
1/2" = 1'-0"



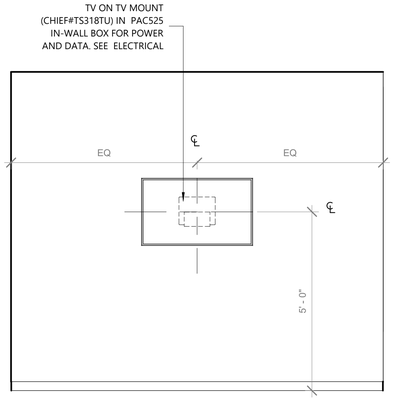
4 A402 GATHERING AREA 105 - WEST
1/2" = 1'-0"



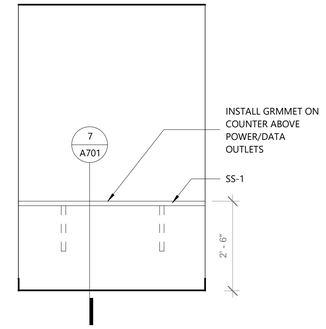
5 A402 HALL 120 - NORTH
1/2" = 1'-0"



6 A402 COLLABORATION 106 - EAST
1/2" = 1'-0"



8 A402 FLEX 109 - NORTH
1/2" = 1'-0"



7 A402 OFFSTAGE 111 - WEST
1/2" = 1'-0"

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ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: CP
DRAWN BY: RI/CJ
DESIGNED BY: RSH
PROJECT NUMBER: 524-0368-028

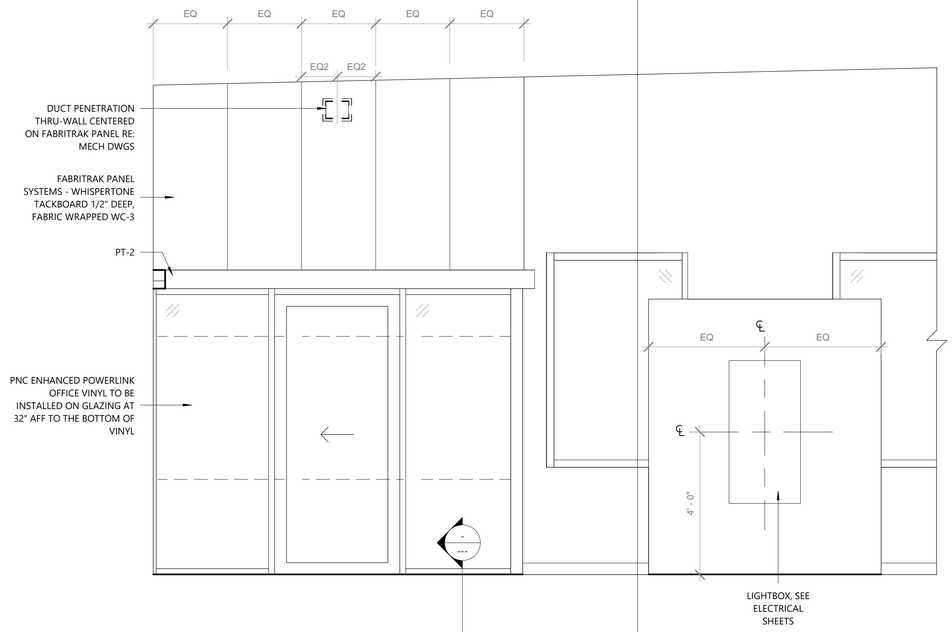
SHEET TITLE:

INTERIOR ELEVATIONS

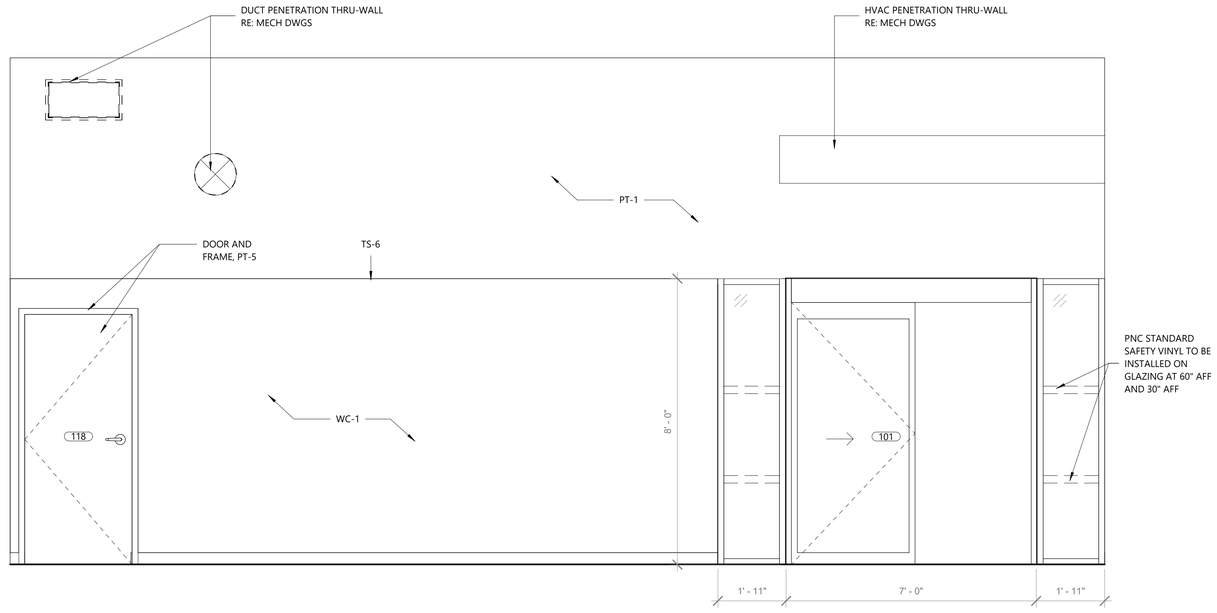
SHEET ID:

A402

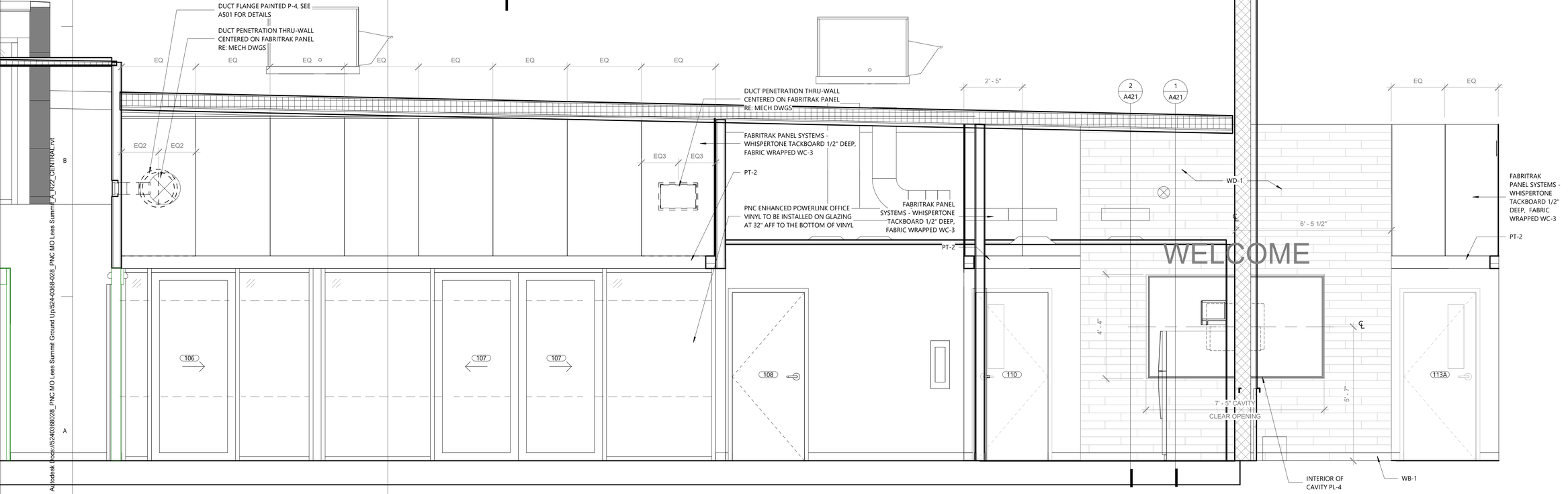
PROJECT STATUS:
PERMIT DOCUMENTS



1 A403 LOBBY 102 - NORTH
1/2" = 1'-0"



2 A403 LOBBY 102 - EAST
1/2" = 1'-0"



3 A403 LOBBY 102 - SOUTH
1/2" = 1'-0"

4 A403 LOBBY 102 - WEST
1/2" = 1'-0"

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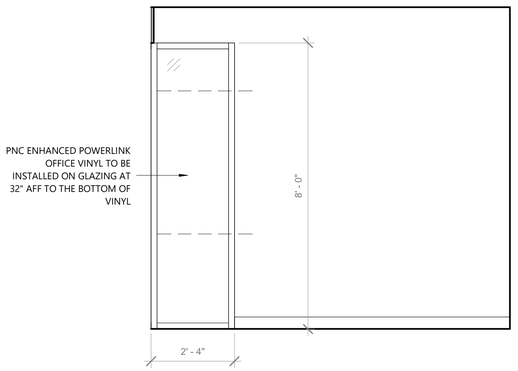
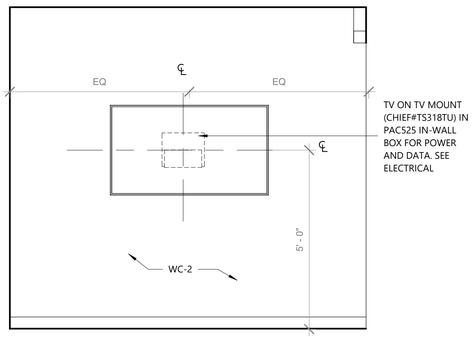


1 A404 CONFERENCE 107 - EAST
1/2" = 1'-0"



2 A404 CONFERENCE 107 - WEST
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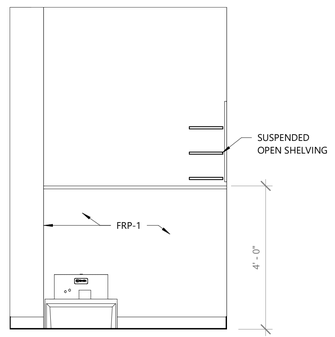
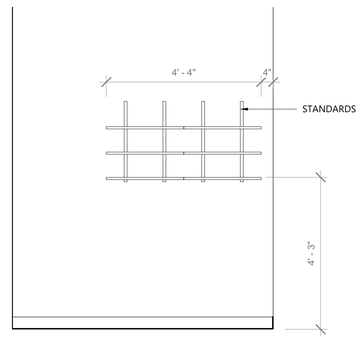
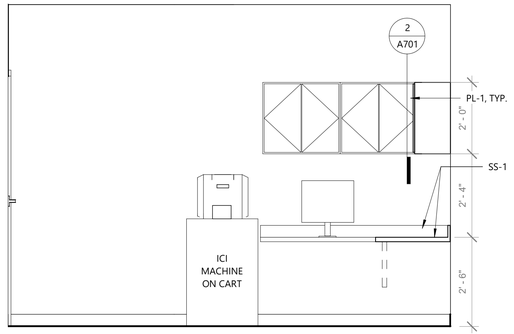


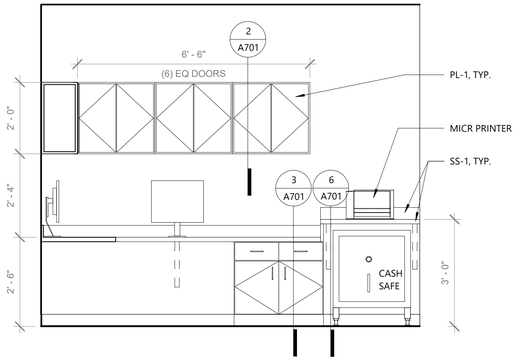
3 A404 JAN 116 - NORTH
1/2" = 1'-0"



4 A404 JAN 116 - EAST
1/2" = 1'-0"



5 A404 WORK ROOM 118 - NORTH
1/2" = 1'-0"



6 A404 WORK ROOM 118 - EAST
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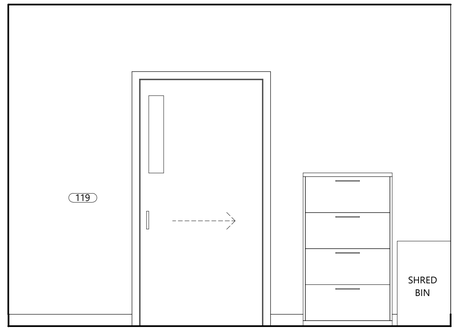

7 A404 WORK ROOM 118 - SOUTH
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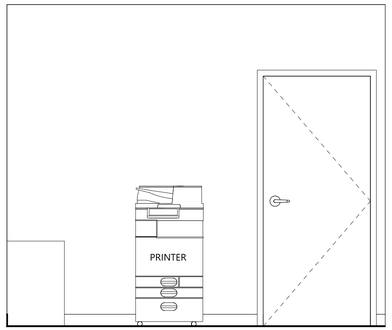

8 A404 WORK ROOM 118 - WEST
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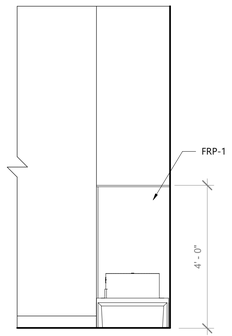
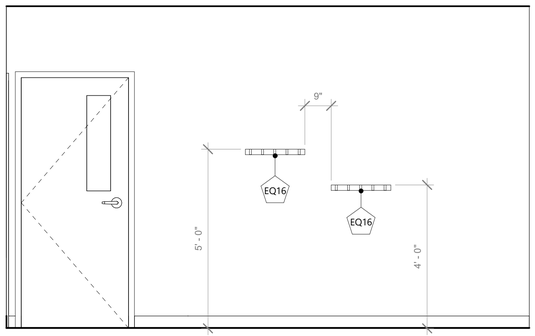
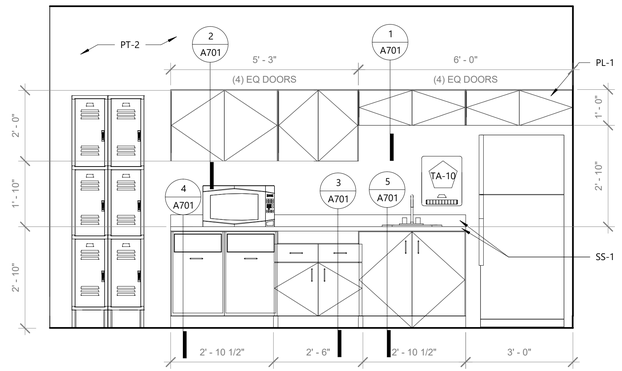


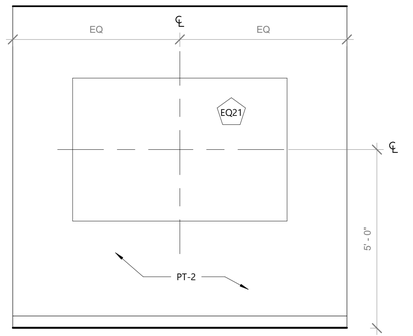
9 A404 JANITOR 116 - WEST
1/2" = 1'-0"



10 A404 BREAK ROOM 110 - EAST
1/2" = 1'-0"



11 A404 BREAK ROOM 110 - WEST
1/2" = 1'-0"



12 A404 BREAKOUT ROOM - WEST
1/2" = 1'-0"

RS&H, Inc.
4582 S ULSTER STREET
SUITE 1100, DENVER, CO 80237
303-409-9700 FAX 303-409-9701

www.rsandh.com
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	CP
DRAWN BY:	RI/CJ
DESIGNED BY:	RSH
PROJECT NUMBER:	

524-0368-028

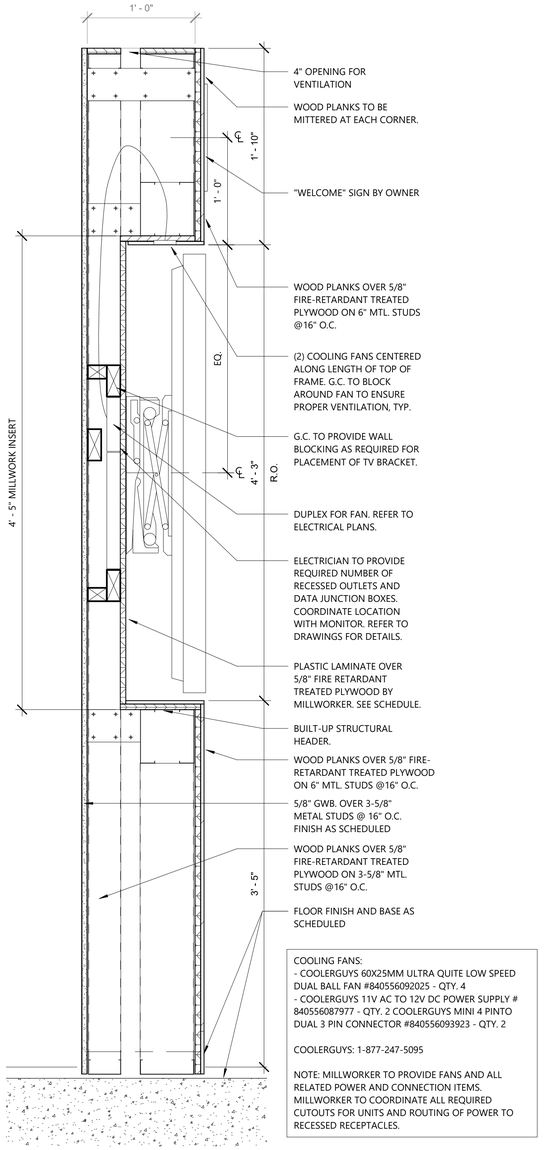
SHEET TITLE:

INTERIOR ELEVATIONS

SHEET ID:

A404

PROJECT STATUS:
PERMIT DOCUMENTS

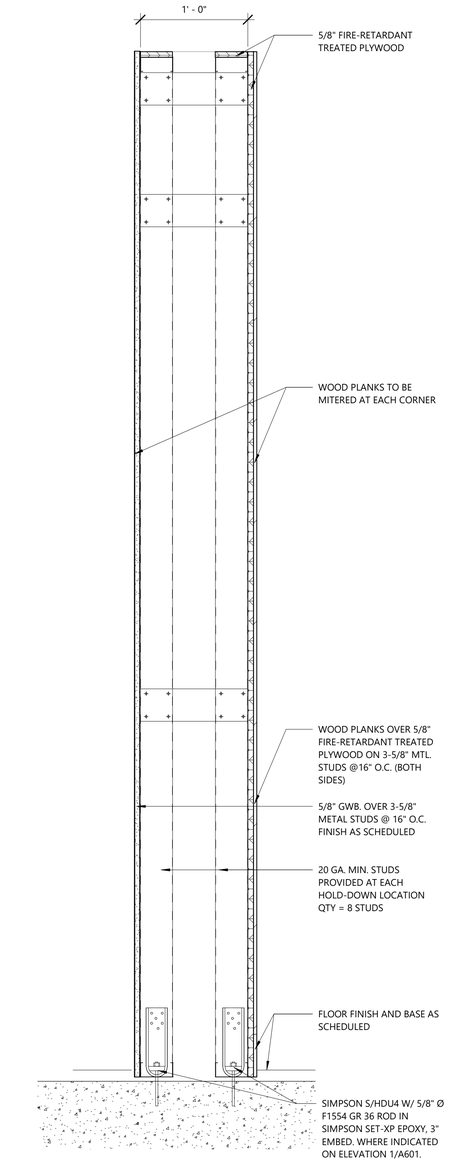


COOLING FANS:
- COOLERGUYS 60X25MM ULTRA QUITE LOW SPEED DUAL BALL FAN #840556092025 - QTY. 4
- COOLERGUYS 11V AC TO 12V DC POWER SUPPLY # 840556087977 - QTY. 2 COOLERGUYS MINI 4 PINTO DUAL 3 PIN CONNECTOR #840556093923 - QTY. 2

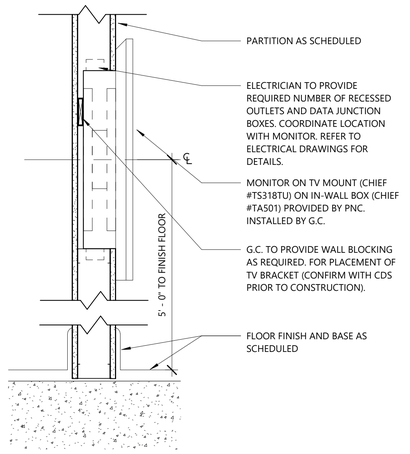
COOLERGUYS: 1-877-247-5095

NOTE: MILLWORKER TO PROVIDE FANS AND ALL RELATED POWER AND CONNECTION ITEMS. MILLWORKER TO COORDINATE ALL REQUIRED CUTOUTS FOR UNITS AND ROUTING OF POWER TO RECESSED RECEPTACLES.

1 A421 WOOD WALL SECTION AT MILLWORK INSERT
1 1/2" = 1'-0"



2 A421 WOOD WALL SECTION
1 1/2" = 1'-0"



4 A421 SECTION AT WALL MOUNTED TV
1 1/2" = 1'-0"

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HILLARY ANDREN-WISE
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ARCHITECT

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DATE ISSUED:	02/15/2022
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DESIGNED BY:	RS&H
PROJECT NUMBER:	

524-0368-028

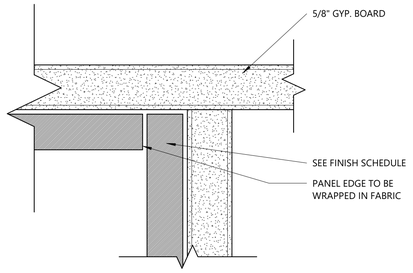
SHEET TITLE:

INTERIOR MEDIA WALL SECTIONS

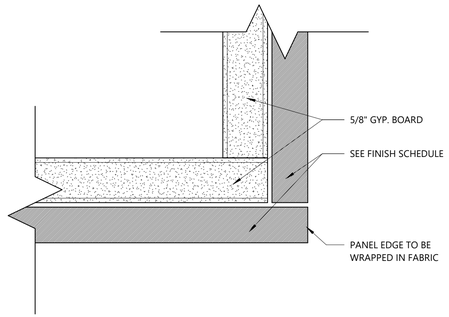
SHEET ID:

A421

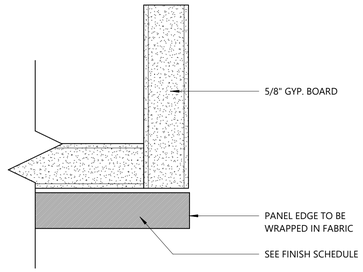
PROJECT STATUS:
PERMIT DOCUMENTS



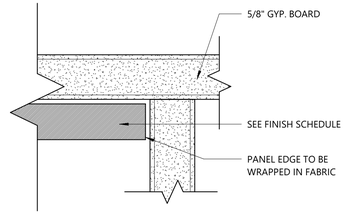
1 A501 FABRIC WRAPPED PANELS @ CORNER
12" = 1'-0"



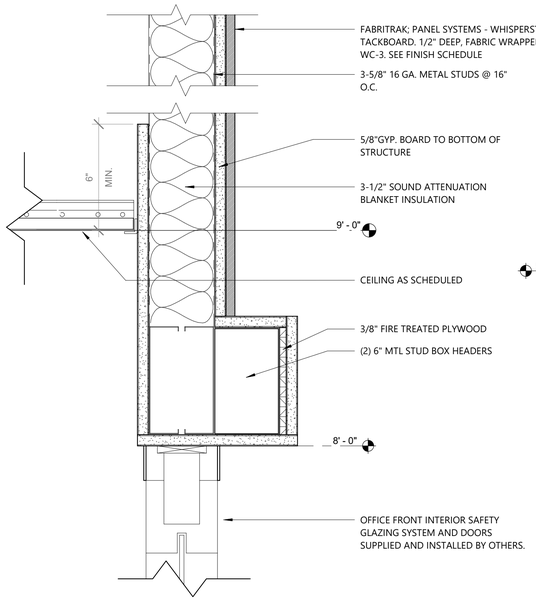
2 A501 FABRIC WRAPPED PANELS CORNER DETAIL
12" = 1'-0"



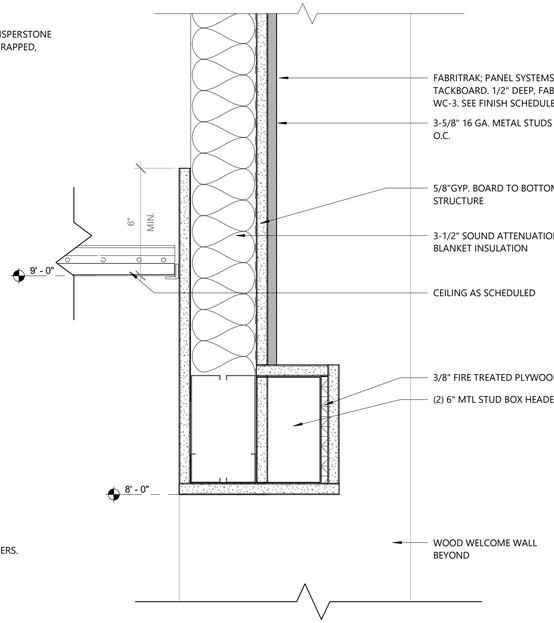
3 A501 FABRIC WRAPPED PANELS EDGE DETAIL
12" = 1'-0"



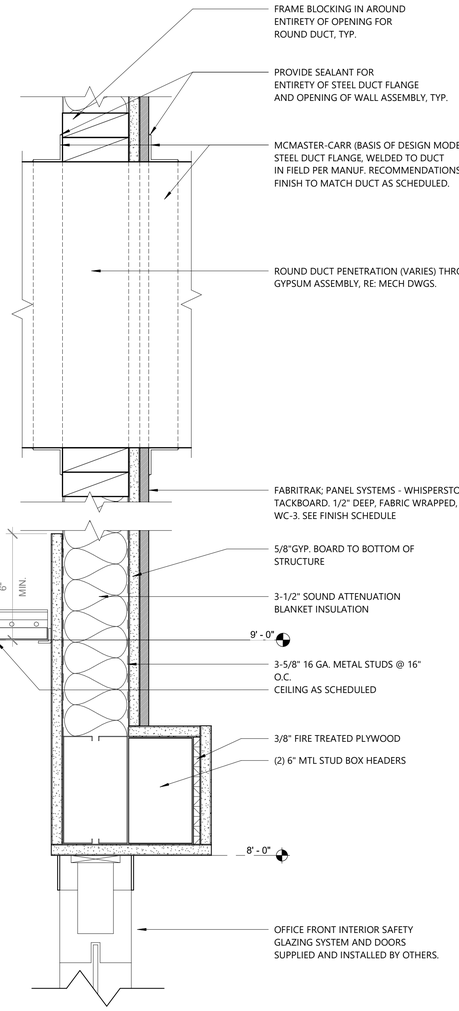
4 A501 FABRIC WRAPPED PANELS END DETAIL
12" = 1'-0"



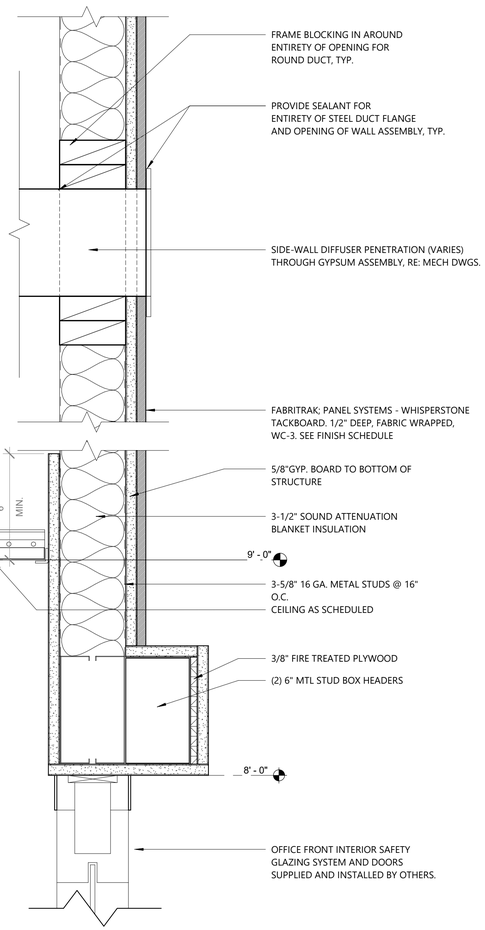
5 A501 EYEBROW DETAIL
3" = 1'-0"



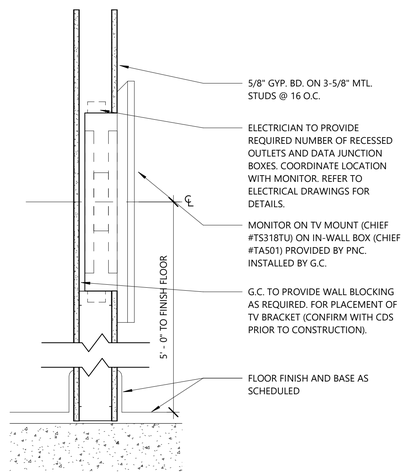
6 A501 ACT-GYP. BULKHEAD CEILING DETAIL
3" = 1'-0"



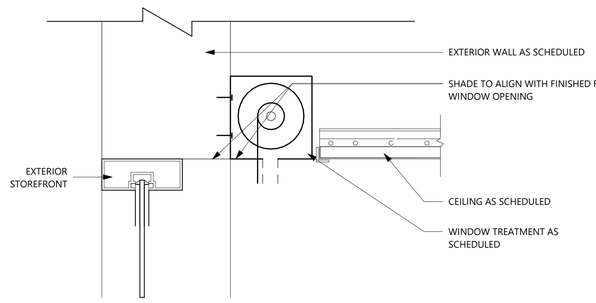
9 A501 EYEBROW DETAIL
3" = 1'-0"



10 A501 EYEBROW DETAIL
3" = 1'-0"



7 A501 SECTION AT WALL MOUNTED TV
1 1/2" = 1'-0"



8 A501 WINDOW SOFFIT DETAIL
3" = 1'-0"

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STATE OF MISSOURI
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524-0368-028

SHEET TITLE:

INTERIOR DETAILS

SHEET ID:

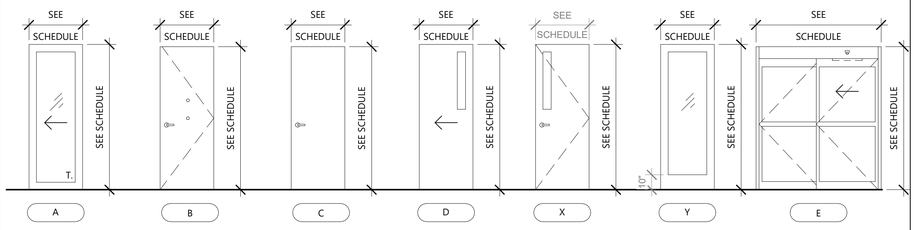
A501

PROJECT STATUS:
PERMIT DOCUMENTS

DOOR AND FRAME SCHEDULE

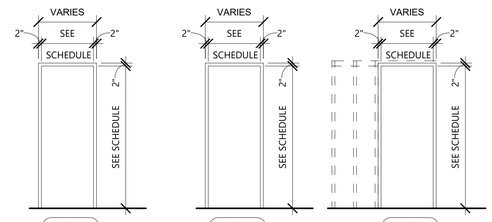
DOOR SCHEDULE														
			DOOR					FRAME						
			SIZE							DETAILS				
DOOR NO.	FROM ROOM	TO ROOM	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HEAD	JAMB	SILL	HARDWARE	COMMENTS
100A		ATM	6' - 8 1/2"	7' - 4"	1 3/4"	E	ALUM/GLASS	-	ALUM	6/A601	7/A601	-	BY OTHERS	-
100B	ATM	ATM	6' - 8 1/2"	7' - 4"	1 3/4"	E	ALUM/GLASS	-	ALUM	6/A601	7/A601	-	BY OTHERS	-
101	ATM	LOBBY	6' - 8 1/2"	7' - 4"	1 3/4"	E	ALUM/GLASS	-	ALUM	6/A601	7/A601	-	BY OTHERS	NO SADDLE THRESHOLD REQUIRED
106	LOBBY	COLLABORATION	3' - 6"	7' - 10"	1 3/4"	A	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	SEE NOTE 'A'
107	LOBBY	CONFERENCE	3' - 6"	7' - 10"	1 3/4"	A	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	SEE NOTE 'A'
108	BREAKOUT ROOM	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	6	-
109	FLEX	CORRIDOR	3' - 6"	7' - 10"	1 3/4"	A	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	SEE NOTE 'A'
110	BREAK ROOM	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	AA	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	3	SEE NOTE 'C', PROVIDE FROSTED GLAZING
111	BREAK ROOM	OFFSTAGE	3' - 6"	7' - 0"	1 3/4"	D	HOLLOW METAL	3	WOOD	-	-	-	9	FIRE RATED TREATED HEADER
112	ELEC / IT ROOM	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	5	-
113A	LOBBY	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	AA	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	7	SEE NOTE 'A'
113B		CORRIDOR	3' - 0"	7' - 0"	1 3/4"	C	INSULATED METAL	2	INSULATED METAL	-	-	-	8	SEE NOTE 'H'
114	CORRIDOR	WOMEN	3' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	1	SEE NOTE 'D'
115	MEN	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	1	SEE NOTE 'D'
116	CORRIDOR	JAN	3' - 0"	7' - 0"	1 3/4"	C	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	4	-
117	LOBBY	HUB	3' - 6"	7' - 10"	1 3/4"	A	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	BY OTHERS	SEE NOTE 'A'
118	WORK ROOM	LOBBY	3' - 0"	7' - 0"	1 3/4"	B	HOLLOW METAL	1	HOLLOW METAL	1/A601	1/A601	3/A601	2	SEE NOTES 'B' AND 'C'
119	STORAGE	WORK ROOM	3' - 6"	7' - 0"	1 3/4"	D	HOLLOW METAL	3	WOOD	-	-	-	9	FIRE RATED TREATED HEADER

DOOR TYPES



HAWORTH DEMOUNTABLE PARTITION DOOR | HM DOOR WITH DOOR VIEWERS | HM DOOR | HM SLIDING DOOR W/ 5"W X 26"H INSET LITE | HM DOOR W/ 5"W X 26"H INSET LITE | HM DOOR WITH FULL LITE | STANLEY SINGLE SLIDING DOOR MODEL NO. 3000

FRAME TYPES



HOLLOW METAL DOOR FRAME | INSUALTED METAL DOOR FRAME | 2X4 METAL FRAMED WALL, POCKET DOOR FRAME W/ CASED OPENING

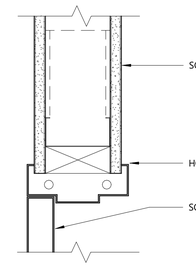
STOREFRONT SYSTEM NOTES

1. CURTAINWALL SYSTEM: BASIS OF DESIGN IS KAWNEER 7525 SERIES CURTAINWALL SYSTEM OR APPROVED EQUAL. SYSTEM IS DOUBLE GLAZEX WITH OVERALL FRAME THICKNESS OF 6 5/16" AND A 2 1/2" SITELINE.

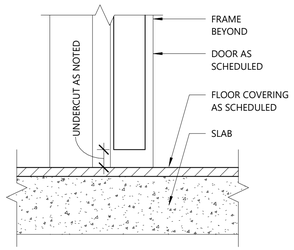
2. PUNCHED WINDOWS: BASIS OF DESIGN IS KAWNEER TRIFAB 451-T OR COMPARABLE BY ONE OF THE FOLLOWING: EFCO CORPORATION, TRACO, VISTAWALL ARCHITECTURAL PRODUCTS. OVERALL FRAME THICKNESS IS 4 1/2" DEPTH WITH 2" SITELINE.

3. GLAZING PERFORMANCE REQUIREMENTS: INSULATED UNIT BASIS OF DESIGN IS 7525 SERIES
   - A. OVERALL UNIT THICKNESS AND THICKNESS OF EACH PANE: 25MM AND 5.0MM
   - B. INTERSPACE: 90% ARGON, 10% AIR
   - C. OUTDOOR LIRE: CLASS 1 CLEAR FLOAT GLASS WITH COATED VISION-GLASS REQUIREMENTS. KIND FG (ANNEALED)
   - D. INDOOR LITE: CLASS 1 CLEAR FLOAT GLASS KIND FG (ANNEALED)
   - E. LOW E COATING: PYROLYTIC OR SPUTTERED ON SECOND SURFACE
   - F. VISIBLE LIGHT TRANSMISSION: 64% MINIMUM
   - G. U-VALUE: 0.24 MAXIMUM
   - H. SOLAR HEAT GAIN: 0.27 MAXIMUM (GLASS ONLY)
   - I. SHADING COEFFECIENT: 0.31 MAXIMUM

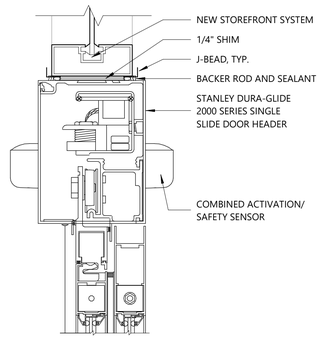
DOOR DETAILS



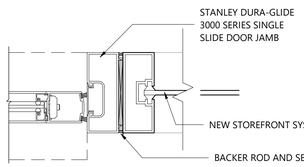
1 A601 TYPICAL DOOR HEAD/JAMB
3" = 1'-0"



3 A601 TYPICAL DOOR SILL
3" = 1'-0"



6 A601 SLIDING GLASS DOOR HEAD
3" = 1'-0"



7 A601 SLIDING GLASS DOOR JAMB
3" = 1'-0"

DOOR HARDWARE

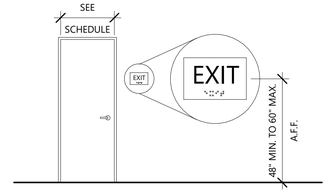
HW #							PURPOSE
1	1	EA	PRIVACY LOCKSET x INDICATOR	L9040 O2AxL283-722	626	SCHLAGE	TOILET ROOMS
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	
	1	EA	CLOSER (PULL SIDE)	SC71 RW/PA TB	ALUM	FALCON	
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	
	1	EA	KICK PLATE (PUSH SIDE)	8400 12"x34" B4E CS	32D	IVES	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
2	1	EA	DIGITAL LOCKSET	DL2700IC (SFIC/LESS CORE)	26D	ALARM LOCK	WORK ROOM
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	
	1	EA	CLOSER (PULL SIDE)	SC71 RW/PA TB	ALUM	FALCON	PREP DOOR FOR CARD ACCESS VIA
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	MORTISE LOCKSET, EPT-10 HINGE
	2	EA	DOOR VIEWER	DS2000S	ALUM	DOORSCOPE	
	1	EA	KICK PLATE (PUSH SIDE)	8400 12"x34" B4E CS	32D	IVES	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
3	1	EA	CLASSROOM LOCKSET	ALX70BD BRW (C-KEYWAY)	626	SCHLAGE	BREAK ROOM
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	
	1	EA	CLOSER (PULL SIDE)	SC71 RW/PA TB	ALUM	FALCON	
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	
	2	EA	DOOR VIEWER	DS2000S	ALUM	DOORSCOPE	
	1	EA	KICK PLATE (PUSH SIDE)	8400 12"x34" B4E CS	32D	IVES	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
4	1	EA	STOREROOM LOCKSET	L9080	626	SCHLAGE	STORAGE ROOM
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	JANITORS ROOM
	1	EA	CLOSER (PULL SIDE)	SC71 RW/PA TB	ALUM	FALCON	
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	
	1	EA	KICK PLATE (PUSH SIDE)	8400 12"x34" B4E CS	32D	IVES	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
5	1	EA	LOCKSET	L1021 (SFIC/LESS CORE)	26D	ALARM LOCK	ELEC/IT ROOM
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	
	1	EA	CLOSER (PULL SIDE)	SC71 RW/PA TB	ALUM	FALCON	PREP DOOR FOR CARD ACCESS VIA
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	MORTISE LOCKSET, EPT-10 HINGE
	1	EA	KICK PLATE (PUSH SIDE)	8400 12"x34" B4E CS	32D	IVES	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
6	1	EA	LOCKSET	L1021 (SFIC/LESS CORE)	26D	ALARM LOCK	PRIVATE OFF-STAGE OFFICE
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	
	1	EA	VISION LIGHT KIT	LOPRP 6x27 W/ CLEAR TEMPERED GLASS	BRNZE	ANEMOSTAT	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
7	1	EA	LOCKSET	L1021 (SFIC/LESS CORE)	26D	ALARM LOCK	CORRIDOR
	3	EA	HINGES	BB81 4.5"x4.5" 26D	26D	PBB	
	1	EA	CLOSER (PULL SIDE)	SC71 RW/PA TB	ALUM	FALCON	
	1	EA	DOOR STOP (FLOOR MOUNTED)	FS436	26D	IVES	
	3	EA	SILENCERS	BY FRAME MANUFACTURER			
8			HINGES AS REQUIRED				EXIT ONLY
	1	EA	ELECTRIC HINGE	BB81 4.5"x4.5" EL2+4	26D	PBB	
	1	EA	ELECTRIC EXIT	EL25R EO (3'-0")		FALCON	
	1	EA	POWER SUPPLY	PS902 x 900-2RS	N/A	FALCON	
	1	EA	DOOR CLOSER (PUSH SIDE)	SC71 RW/PA TB		FALCON	
	1	EA	THRESHOLD (METAL)				
	1	EA	DOOR SWEEP				
	1	EA	WEATHER STRIPPING				
	1	EA	ALARM	PG21	MS	ALARM LOCK	
	1	EA	CYLINDER HOUSING	80-102	626	SCHLAGE	
	1	EA	PULL BAR (PUSH SIDE)	1732		TRIMCO	
9	1	EA	42" POCKET FRAME KIT	1500SC 2X4 STUD WALL	-	JOHNSON	STORAGE / OFF STAGE
	2	EA	6" DOOR PULL	8102HD 6"	26D	IVES	

DOOR NOTES

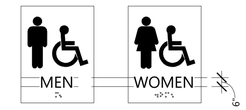
1. **SCOPE OF WORK: ALL NEW AND EXISTING FINISHED DOOR FRAMES SHALL BE FINISHED AS SPECIFIED ON PLANS AND PROJECT SPECIFICATIONS.**
2. **THE EXISTING BUILDING STANDARD DOOR LEAVES ARE TO BE TOUCHED-UP BY THE CONTRACTOR.**
3. **NEW BUILDING STANDARD VENEER DOOR LEAVES SHALL MATCH EXISTING. SUBMIT SAMPLES TO BUILDING OWNER FOR APPROVAL.**
4. **ALL DOORS AND DOOR HARDWARE SHALL BE BUILDING STANDARDS EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS. ANY EXISTING DOORS, FRAMES, AND HARDWARE TO BE REUSED SHALL BE TOUCHED UP AND/OR REPAIRED AS REQUIRED TO "LIKE NEW" CONDITION.**
5. **BUILDING STANDARD DOORS ARE <3'-0" X 8'-0" X 1-3/4"> FLUSH SOLID CORE.**
6. **BUILDING STANDARD VENEER IS <per work letter> TO MATCH EXISTING.**
7. **BUILDING STANDARD FRAMES ARE <VERSATRAC ALUMINUM> FRAMES. BUILDING STANDARD FINISH IS <DARK BRONZE>. PROVIDE SILENCER(S) AND SOUND SEALS TO MATCH EXISTING BUILDING STANDARDS.**
8. **ALL HARDWARE SHALL MATCH BUILDING STANDARD. BUILDING STANDARD HARDWARE IS <SCHLAGE AL-SERIES> HARDWARE WITH <BRUSHED ALUMINUM/CHROME/BRONZE> FINISH.**
9. **ALL DOORS, FRAMES, AND HARDWARE, INCLUDING THOSE OF DIFFERING SIZE, MATERIAL, AND OPERATION SHALL BE SUPPLIED BY THE CONTRACTOR.**
10. **ALL KEYING SHALL BE BY GENERAL CONTRACTOR. VERIFY THE NUMBER OF KEYS REQUIRED FOR THIS PROJECT WITH THE OWNER.**
11. **G.C. IS TO EXAMINE EXISTING DOORS AND HARDWARE AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THESE DOORS AND HARDWARE FOR THE DURATION OF THE CONSTRUCTION PERIOD. G.C. SHALL REPORT CONDITION OF DOORS TO OWNER IN WRITING AT TIME OF ACCEPTANCE. G.C. SHALL TRANSPORT DOORS SUPPLIED OUT OF OWNER'S STOCK (IF ANY) FROM SPACE WITHIN THIS BUILDING TO THE WORK AREA.**
12. **DOOR ASSEMBLIES SHALL BE FIRE RATED ("LABELED") WHEN REQUIRED BY THE LOCAL BUILDING CODE.**
13. **G.C. SHALL PROVIDE MATCHING DOOR LEAVES AT ALL PAIRS OF DOORS. RELOCATED DOORS SHALL BE PAIRED AS CLOSELY AS POSSIBLE BASED ON WOOD GRAIN AND COLOR.**
14. **G.C. TO PROTECT PREFINISHED DOORS AND FRAMES THROUGH THE CONSTRUCTION PERIOD. DOORS THAT ARE DAMAGED AS A RESULT OF HIM OR HIS SUBCONTRACTOR'S WORK DURING THIS PERIOD SHALL BE REPAIRED OR REPLACED BY THE G.C.**
15. **BIDDING CONTRACTORS SHALL VERIFY ALL INFORMATION IN REGARDS TO DOOR ASSEMBLIES, BUILDING STANDARDS (SIZES, VENEERS, FRAME TYPES, ETC.) AND RESPONSIBILITIES PRIOR TO STARTING BIDS.**

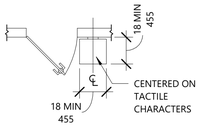
SIGNAGE DETAILS

** COORDINATE ALL SIGNAGE DESIGN AND FINAL PLACEMENT WITH SIGNAGE VENDOR



PROVIDE AND INSTALL TACTILE SIGNAGE AT ALL EXITS. (2) TOTAL REQUIRED.





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SUITE 1100, DENVER, CO 80237
303-409-9700 FAX 303-409-9701
www.rsandh.com
MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	SLC
DRAWN BY:	PAF
DESIGNED BY:	RS&H
PROJECT NUMBER:	

524-0368-028

SHEET TITLE:

DOOR SCHEDULE, DOOR TYPES AND NOTES

SHEET ID:

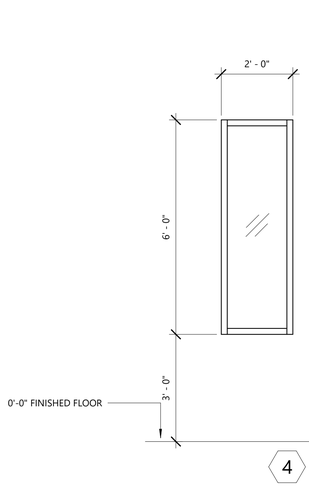
A601

PROJECT STATUS:
PERMIT DOCUMENTS

EXTERIOR GLAZING SCHEDULE	
TAG	**DESCRIPTION**
GLAZING	*BASIS OF DESIGN: VITRO ARCHITECTURAL GLASS - SOLARBAN 70 LOW-E WITH STARPHIRE ULTRA-CLEAR GLASS
GL-1	1" TEMPERED INSULATED GLAZING
ALUMINUM GLAZING FRAMES	
AF-1	NEW STOREFRONT SYSTEM TO MATCH EXISTING BUILDING STOREFRONT

GENERAL NOTES

1. GC IS REQUIRED TO PROVIDE LANDLORD A STOREFRONT AND GLASS SAMPLE PRIOR FOR APPROVAL PRIOR TO INSTALLING.



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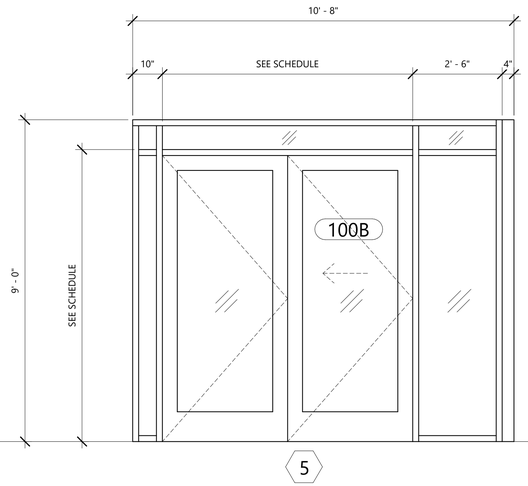

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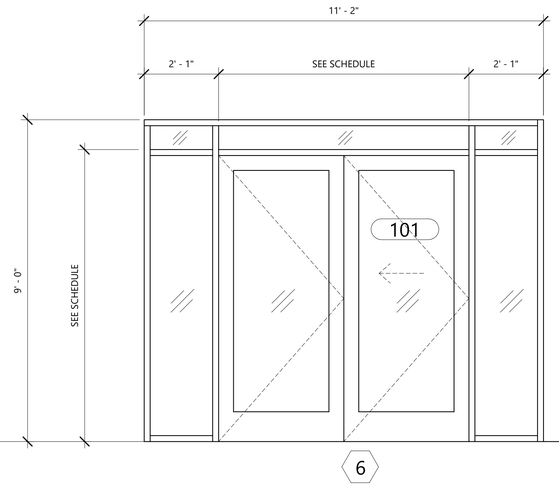

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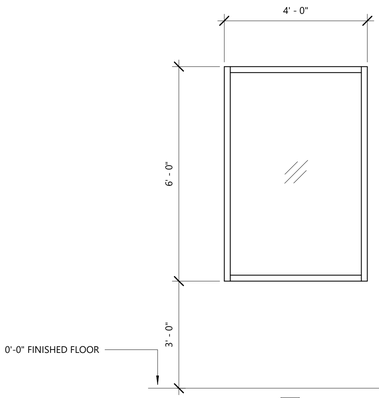

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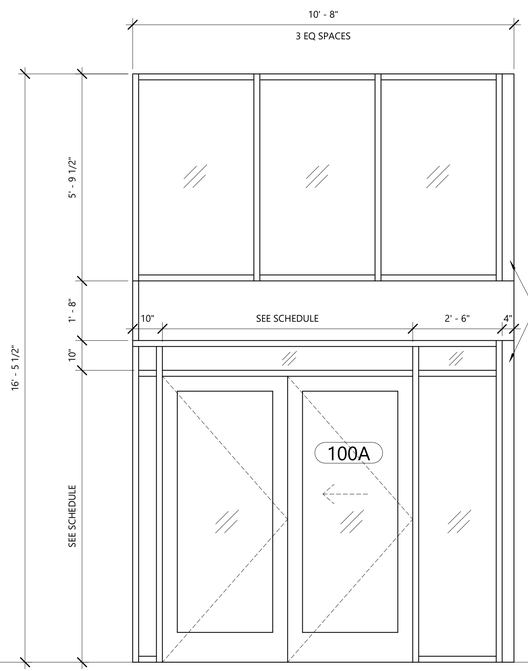

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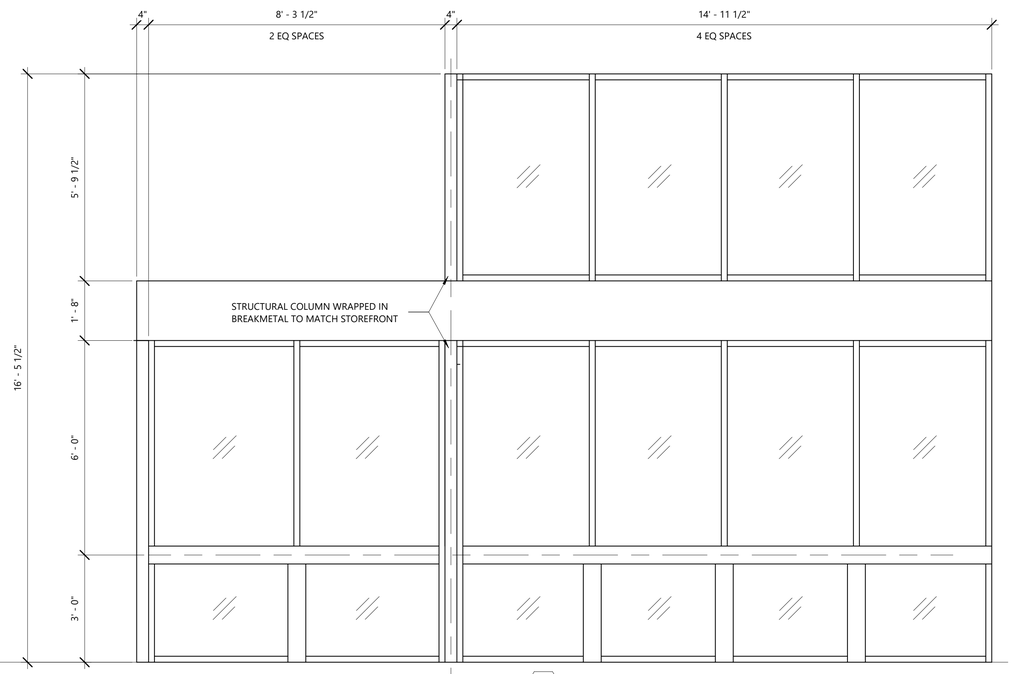

3

1 A602 WINDOW TYPES
1/2" = 1'-0"

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PNC

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PROJECT ADDRESS:
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WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

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REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

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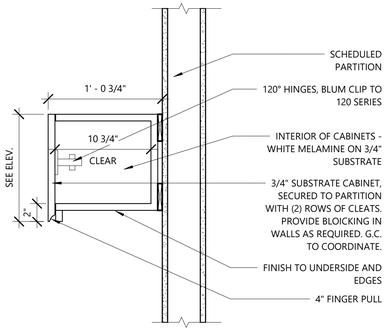
524-0368-028

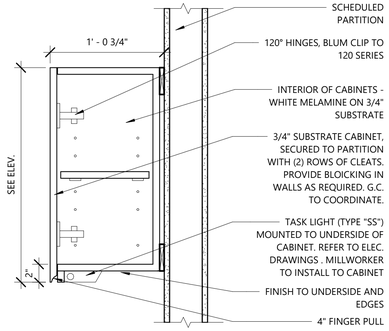
SHEET TITLE:
WINDOW TYPES

SHEET ID:
A602

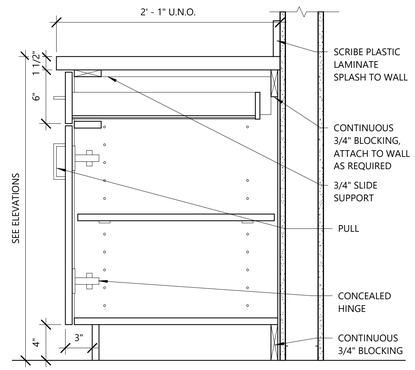
PROJECT STATUS:
PERMIT DOCUMENTS



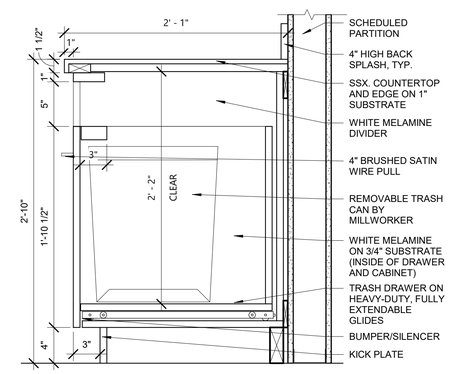
1 A701 UPPER CABINET
1 1/2" = 1'-0"



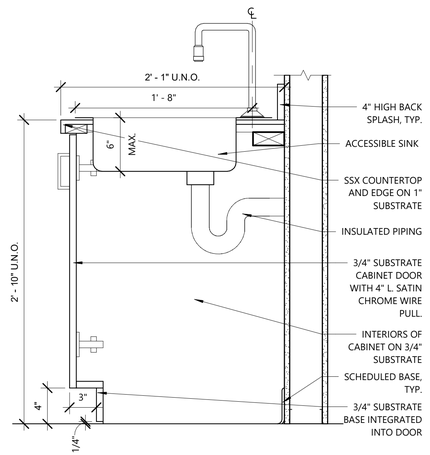
2 A701 UPPER CABINET
1 1/2" = 1'-0"



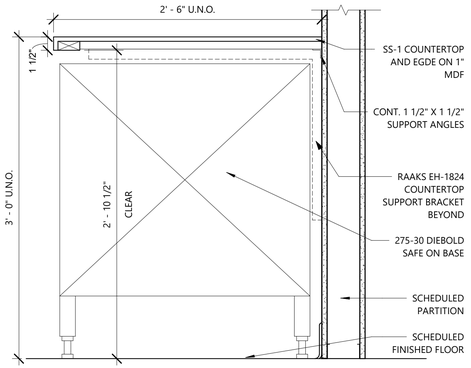
3 A701 BASE CABINET - 1 DRAWER
1 1/2" = 1'-0"



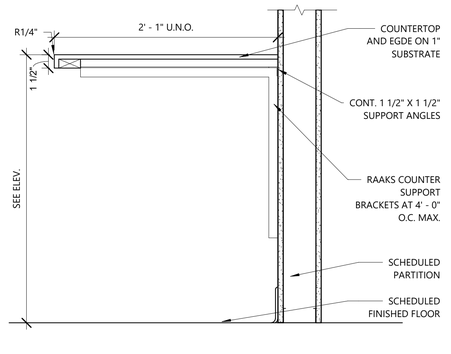
4 A701 TRASH CABINET
1 1/2" = 1'-0"



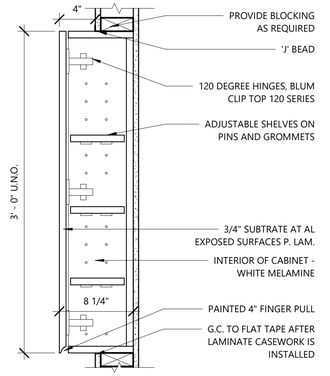
5 A701 SINK BASE
1 1/2" = 1'-0"



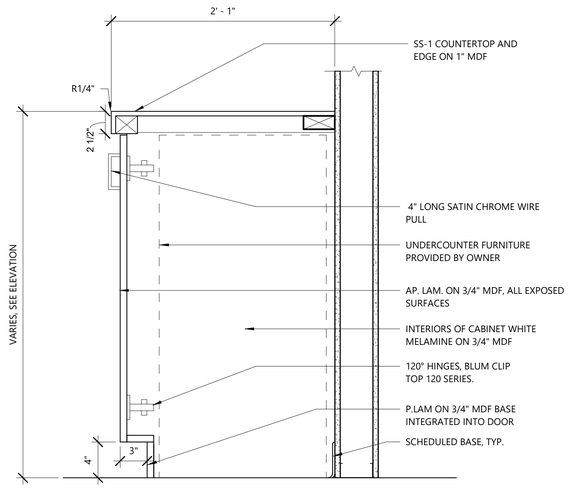
6 A701 CASH SAFE SPACE
1 1/2" = 1'-0"



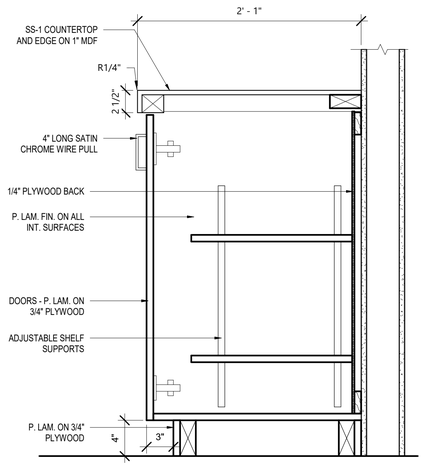
7 A701 KNEE SPACE
1 1/2" = 1'-0"



8 A701 TOILET ROOM CABINET
1 1/2" = 1'-0"



9 A701 BASE CABINET AT CONCIERGE
1 1/2" = 1'-0"



10 A701 BASE CABINET
1 1/2" = 1'-0"

CASEWORK GENERAL NOTES

1. FABRICATE AND INSTALL CASEWORK TO AWI CUSTOM QUALITY STANDARDS FOR FLUSH OVERLAY CONSTRUCTION.
2. BASE MOLDING AT ALL CABINETS SUPPLIED BY MANUFACTURER.
3. PLASTIC LAMINATE TOPS ARE 25" DEEP, U.N.O.
4. ALL CABINETS ARE TO BE SECURELY ATTACHED TO BUILDING STRUCTURE WITH ANCHORING DEVICES OF APPROPRIATE TYPE, SIZE, AND QUANTITY TO MEET PREVAILING CODES. ANCHORING DEVICES PROVIDED BY INSTALLATION CONTRACTORS.
5. TOE KICKS ALONG EACH ELEVATION THAT ARE SEPARATED BY LESS THAN 2" ARE TO BE MADE FLUSH WITH A 3" MIN. DEPTH.
6. QUANTITY OF MASTER KEYS IS FIVE (5), U.N.O.
7. DOOR / DRAWER FRONTS AND EXPOSED CABINET EXTERIORS TO BE PLASTIC LAMINATE IN COLOR AS INDICATED ON INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULE.
8. INTERIOR OF ALL CABINETS AND DRAWERS ARE TO BE WHITE MELAMINE, U.N.O.
9. COUNTERTOPS WILL NOT BE SUPPLIED WITH CUT OUT FOR COLUMNS. FIELD TRIM REQUIRED.
10. ALL BACK SPLASH PARTS FOR COLUMNS WILL BE SUPPLIED OVERSIZE TO ALLOW FOR FIELD TRIM.
11. ALL CUT OUTS FOR SINKS, GROMMETS, APPLIANCES, ETC. ARE TO BE FIELD CUT.
12. COUNTERTOPS AND BACK SPLASHES ARE TO BE CAULKED.
13. IF END SPLASHES ARE REQUIRED AGAINST WALLS, THEY WILL BE CUT TO DEPTH OF COUNTERTOP OR DEEPER. FIELD TRIM MAY BE REQUIRED.
14. ALL BASE CABINETS ARE 24" DEEP, U.N.O. ON PLANS & INTERIOR ELEVATIONS.
15. CABINETS AND SHELVING SHALL HAVE PLASTIC LAMINATE ON ALL EXTERIOR (EXPOSED) SURFACES, AND POLYESTER LAMINATE ON ALL INTERIOR (SEMI-EXPOSED) SURFACES. (SEE FINISH SCHEDULE).
16. SHELVING IN JANITOR CLOSET ARE 12" WIDE WHITE MELAMINE SHELVES ON STANDARDS W/ADJUSTABLE BRACKETS UNLESS NOTED OTHERWISE.
17. PROVIDE (1) 3" GROMMET FOR EVERY 3'-0" OF COUNTER TOP. COORDINATE FINAL LOCATIONS WITH OWNER.
18. FIELD CHECKS INCLUDE NOT ONLY WALL DIMENSIONS BUT ALSO VERIFICATION OF ACTUAL FIELD CONDITIONS LIKE BANK EQUIPMENT LOCATIONS & DIMENSIONS, WALL LOCATIONS, COLUMN LOCATIONS & DIMENSIONS, PIPING PANEL LOCATIONS & DIMENSIONS, NECESSARY CHASE DIMENSIONS, ANGLE INFORMATION ON WALLS, OPENING OF CABINET DOORS & DRAWERS, AND REQUIRED ACCESSIBILITY COMPLIANCE REQUIREMENTS.
19. SPECIFIC FIELD CHECK DIMENSIONS WILL NOT BE REQUESTED ON DRAWINGS WITH THE FULL UNDERSTANDING THAT ALL REQUIRED INFORMATION WILL BE PROVIDED BY THE GENERAL CONTRACTOR OR INSTALLATION CONTRACTOR.
20. ALL FIELD CHECK INFORMATION / DIMENSIONS ARE TO BE NOTED ON SHOP DRAWING ELEVATIONS.
21. WALL TO WALL DIMENSIONS SHOULD BE TAKEN ALONG THE BACK WALL AND APPROXIMATELY 2 FEET OUT. IF DIMENSIONS VARY 1/4" NOTE ON SHOP DRAWING ELEVATIONS: OTHERWISE NOTE SMALLER OF THE TWO DIMENSIONS.
22. IF FIELD CONDITIONS INDICATE CABINET REQUIREMENTS OTHER THAN SHOWN IN THESE DRAWINGS, THEY ARE TO BE NOTED ON SHOP DRAWING ELEVATIONS.
23. ALL ROUGH-IN DIMENSIONS ON DRAWINGS ARE TO CENTERLINE OF SINK CABINETS.

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

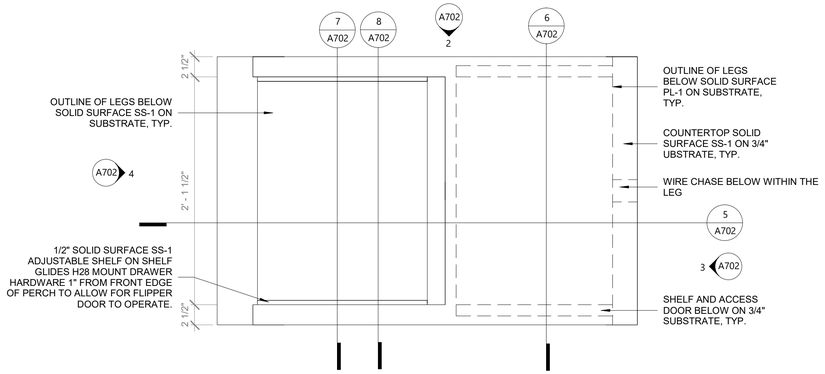
DATE ISSUED:	02/15/2022
REVIEWED BY:	SLC
DRAWN BY:	PAF
DESIGNED BY:	RS&H

PROJECT NUMBER:
524-0368-028

SHEET TITLE:
MILLWORK DETAILS

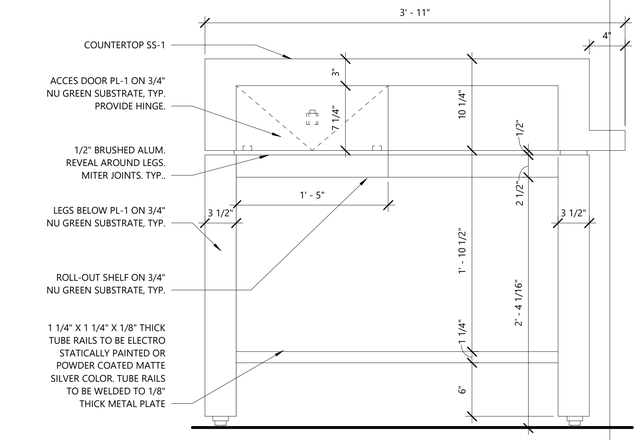
SHEET ID:
A701

PROJECT STATUS:
PERMIT DOCUMENTS



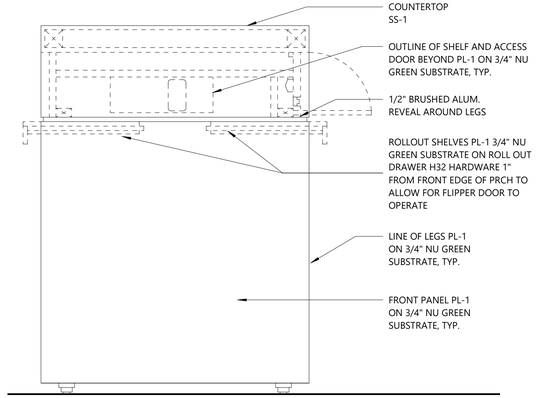
1 A702 FLOOR PLAN - PERCH

1 1/2" = 1'-0"



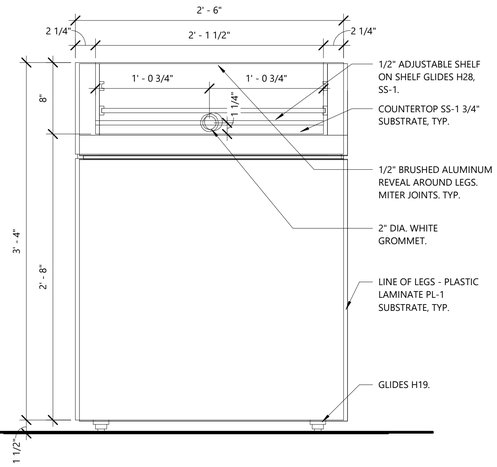
2 A702 PERCH ELEVATION - NORTH

1 1/2" = 1'-0"



3 A702 PERCH ELEVATION - EAST

1 1/2" = 1'-0"



4 A702 PERCH ELEVATION - WEST

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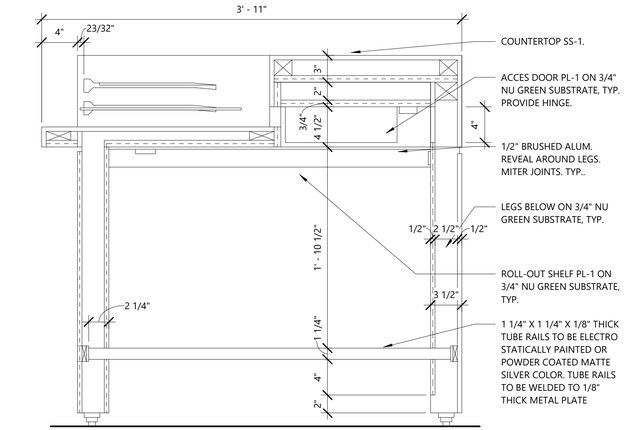
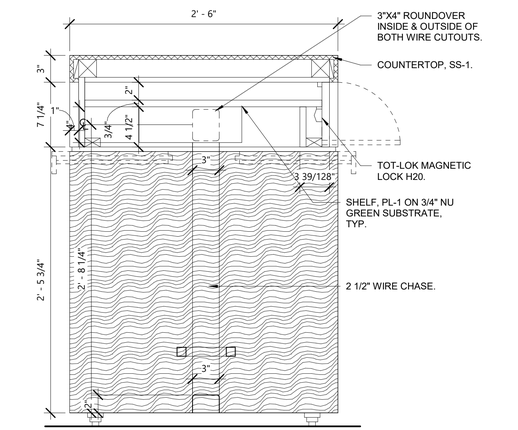


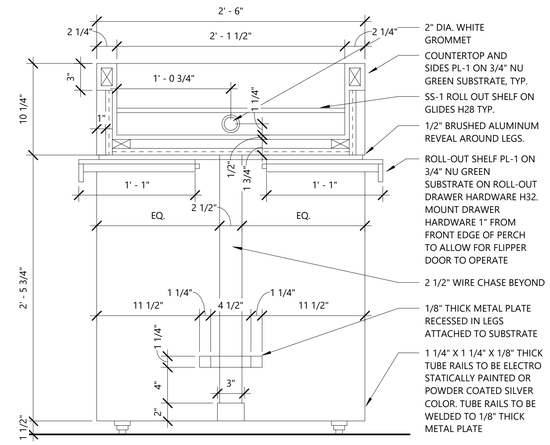
5 A702 PERCH DETAIL SECTION

1 1/2" = 1'-0"



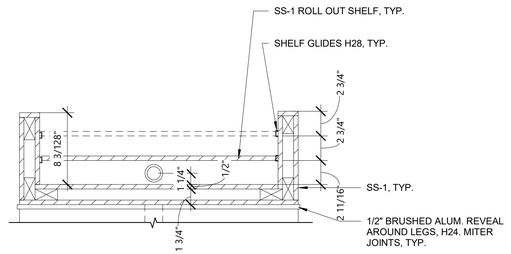
6 A702 ASSOCIATE PERCH SECTION

1 1/2" = 1'-0"



7 A702 ASSOCIATE PERCH SECTION

1 1/2" = 1'-0"



8 A702 PERCH DETAIL SECTION

1 1/2" = 1'-0"

HARDWARE SCHEDULE

H11	CPU BRACKET - DOUG MOCKETT CPUIA BLACK FINISH BY MILLWORKER NOTE: PNC PM SHALL VERIFY WITH CDS PRIOR TO MILLWORK FABRICATION TYPE OF BRACKET TO BE USED. BRACKET MAY NOT BE NEEDED PENDING CDS' EQUIPMENT DETERMINATION.
H19	GLIDES - MOMASTER CARR - BALL TRANSFER #64GOK45
H20	TOT-LOK MAGNETIC LOCK BY REV A SHELF, MODEL #TL13401-R BY MILLWORKER
H21	HINGE - 90 DEGREE FLAP HINGE WITH 35 MM CUP BY GRASS AMERICA INC. 210.735.04.0015 BY MILLWORKER
H24	3REVEAL - RICHELIEU - 1/2" X 1/8" FLAT BRUSHED ALUMINUM MOLDING, #MRB59918M BY MILLWORKER
H28	SHELF GLIDES - 14" BLUM EPOXY SLIDE, WHITE
H32	DRAWER GLIDES - ACCURIDE; MODEL #3832EDO DETENT IN AND OUT VERTICAL DRAWER ADJUSTMENT CAM; FINISH: (C) CLEAR ELECTROPLATE OR EQUAL

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PNC

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STATE OF MISSOURI
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ARCHITECT

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DESIGNED BY:	RS&H

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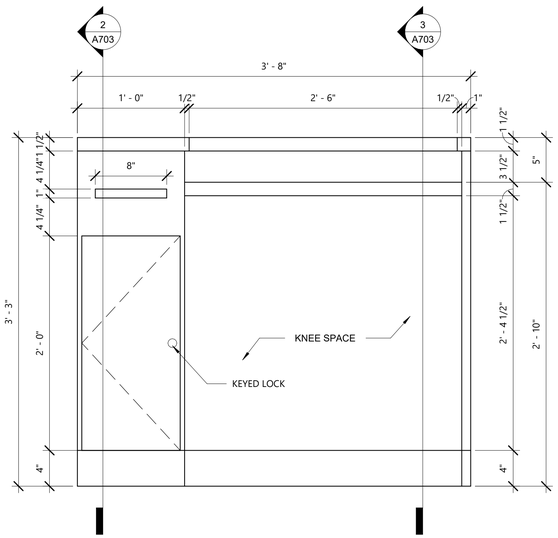
PERCH DETAILS

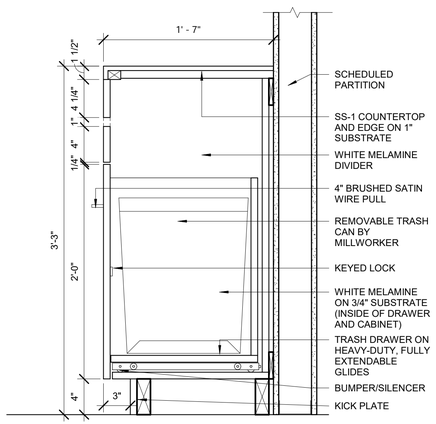
SHEET ID:

A702

PROJECT STATUS:
PERMIT DOCUMENTS



1 A703 CHECK WRITING ELEVATION
1 1/2" = 1'-0"



2 A703 CHECK WRITING SECTION
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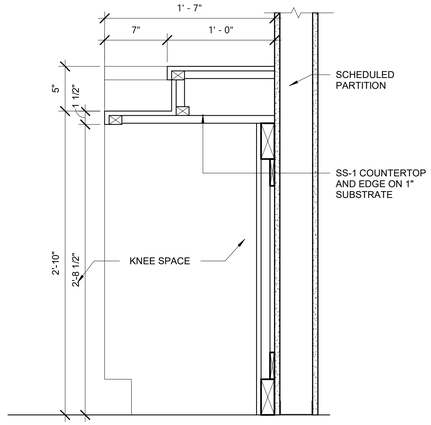

3 A703 CHECK WRITING SECTION 2
1 1/2" = 1'-0"

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer

PROJECT NUMBER:
524-0368-028

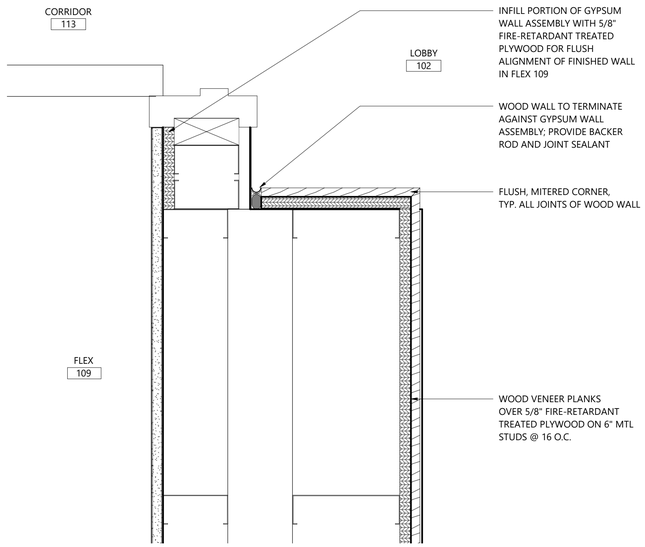
SHEET TITLE:

CHECK WRITING DETAILS

SHEET ID:

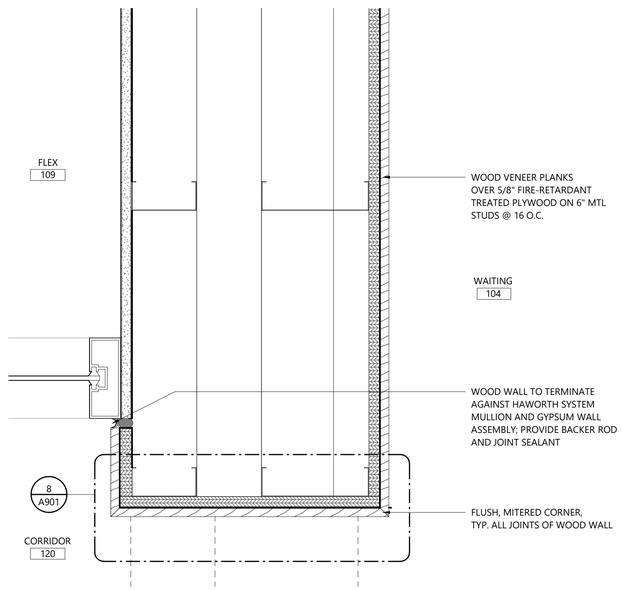
A703

PROJECT STATUS:
PERMIT DOCUMENTS



T.N.

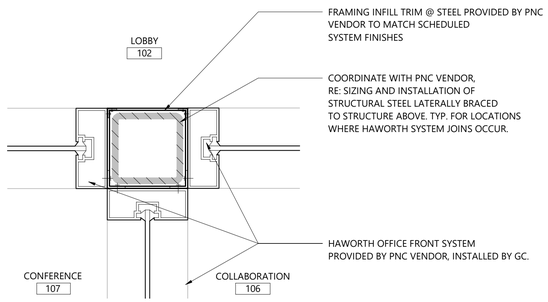
2 A901 WELCOME WALL - WOOD VENEER TERMINATION 1
3" = 1'-0"



T.N.

3 A901 WELCOME WALL - WOOD VENEER TERMINATION 2
3" = 1'-0"

8 A901 ACOUSTIC PANEL/EYEBROW TO WELCOME WALL TERMINATION
6" = 1'-0"



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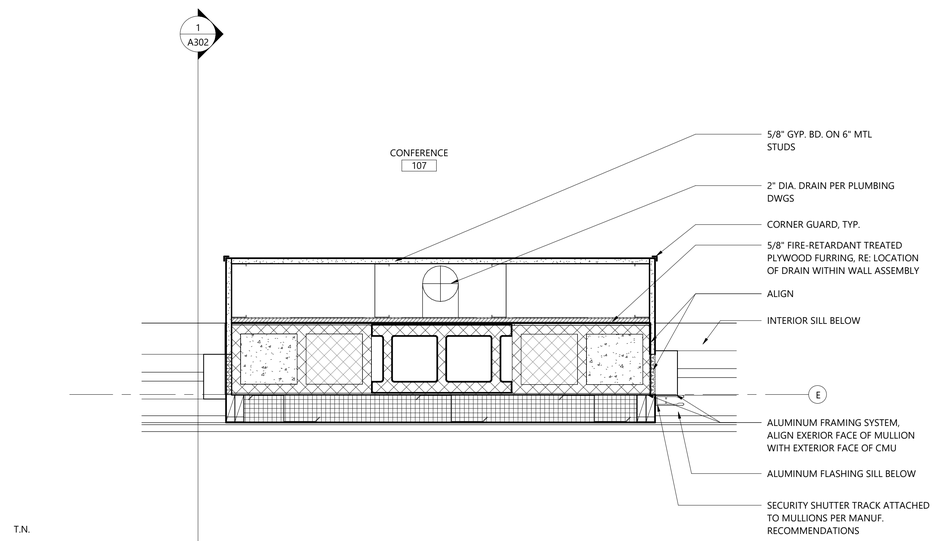
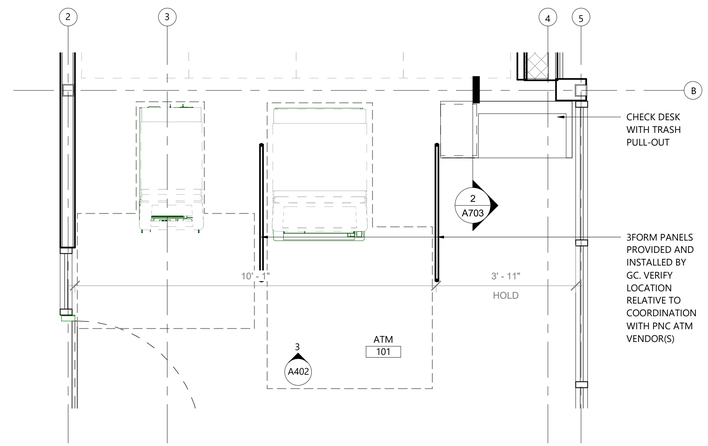
1 A901 HAWORTH SYSTEM STEEL @ JOINED FRAMING
3" = 1'-0"



T.N.

6 A901 CONF 107 - FURRED WALL @ ROOF / CANOPY DRAINAGE
1 1/2" = 1'-0"



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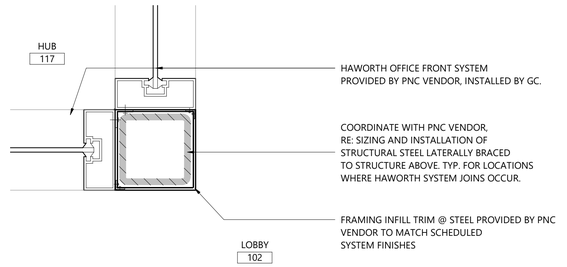
4 A901 ENLARGED ATM VESTIBULE
1/2" = 1'-0"



T.N.

5 A901 HAWORTH SYSTEM STEEL @ JOINED CORNER
3" = 1'-0"

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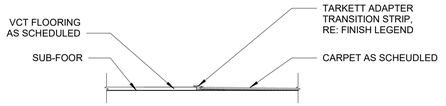
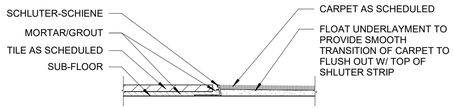
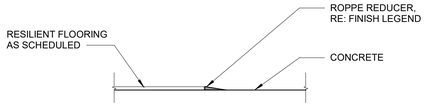


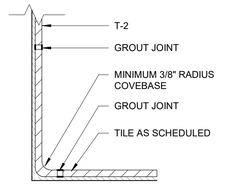
1 ID100 TS-1 VCT TO CARPET
3" = 1'-0"



2 ID100 TS-2 TILE TO CARPET
3" = 1'-0"



3 ID100 TS-3 FLOORING TO CONCRETE
3" = 1'-0"



4 ID100 TB-1 TILE BASE
3" = 1'-0"

INTERIOR FINISH LEGEND

FINISH	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	SIZE	COMMENTS
FLOORS						
CPT-1	CARPET TILE	INTERFACE	NIMBUS	LICHEN 103969	25CM X 1M	INSTALLATION: ASHLAR
CPT-2	CARPET TILE	BENTLEY MILLS	BUZZ WORTHY	MONEY MAKER 400590	24" X 24"	INSTALLATION: PARQUET, BACKING: AFIRMA HARD BACK, FLOORING CONTRACTOR TO ENSURE SMOOTH TRANSITION BETWEEN TWO CARPETS
CPT-3	CARPET TILE	INTERFACE	STEP REPEAT SR899	GRANITE 104939	50CM X 50CM	INSTALLATION: MONOLITHIC
CPT-4	CARPET TILE	INTERFACE	STEP REPEAT SR699	IRON 104932	50CM X 50CM	INSTALLATION: MONOLITHIC
T-1	PORCELAIN FLOOR TILE	DALTILE	PORTFOLIO	IRON GREY PF06	24" X 24"	INSTALLATION: STRAIGHT LAY, GROUT: BOSTIK, DELOREAN GRAY H160, JOINT WIDTH: 1/8", PROVIDE A WATERPROOF MEMBRANE BENEATH THE FINISH FLOOR SURFACE UP TO A HEIGHT OF 4" ALONG ALL WALLS
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	PREMIUM EXCELON CROWN TEXTURE	STERLING 5C904	12" X 12"	INSTALLATION: STRAIGHT LAY
SC-1	SEALED CONCRETE FLOOR	RUST-OLEUM	4700 SYSTEM ULTRAPLEX -ESD CONTROL COATING TYPE II STATIC DISSIPATIVE	NATURAL	-	-
WALL BASE						
RB-1	RUBBER BASE	TARKETT	MILLWORK REVEAL	WHITE SAND 68	4.25" H	
RB-2	RUBBER BASE	TARKETT	DURACOVE	WHITE SAND 68	4"	PROVIDE TOELESS BASE AT CARPET, PROVIDE TOE (COVE) BASE AT RESILIENT FLOORING
TB-1	TILE BASE	DALTILE	PORTFOLIO	IRON GREY PF06	6" X 12"	PROVIDE COORDINATING OUTCORNERS, GROUT: BOSTIK, DELOREAN GRAY H160, JOINT WIDTH: 1/8", SEE DETAIL: 4/ID100
WB-1	WOOD BASE TO MATCH WD-1	-	-	-	3/8" THICK SOLID WOOD	-
WALLS						
PT-1	GENERAL PAINT	BENJAMIN MOORE	-	CHANTILLY LACE 2121-70	-	WALL FINISH: EGGSHELL, DOOR & FRAME FINISH: SEMI-GLOSS, CEILING FINISH: FLAT, TOILET ROOM: ENAMEL PAINT
PT-2	ACCENT PAINT	BENJAMIN MOORE	-	SEA HAZE 2137-50	-	WALL FINISH: EGGSHELL, DOOR & FRAME FINISH: SEMI-GLOSS
PT-3	NOT USED	-	-	-	-	WALL FINISH: EGGSHELL. SEE ELEVATION 3/A402 FOR FURTHER DETAIL
PT-4	EXPOSED CEILING PAINT	BENJAMIN MOORE	-	DEEP ROYAL 2061-10	-	FINISH: MATTE; TO BE USED ON ALL EXPOSED STRUCTURE, ROOF DECK, DUCTWORK, CONDUIT, ETC. IN MAIN LOBBY AREA. REFER TO RCP FOR MORE INFORMATION.
PT-5	DOOR/ FRAME - DOOR 118	PPG	-	FIELD POPPY 125-7	-	FINISH: SEMI-GLOSS, SEE ELEVATION 2/A403 FOR LOCATION
RP-1	RESIN PANEL	3-FORM	VARIA ECORESIN	SLANT - PURE	48" X 96"	FLAME POLISH ALL EDGES. FLOOR AND CEILING MOUNTED, PROVIDE 3-FORM FRAMELSS SUSPENDED PARTITION HARDWARE 200.08
T-2	CERAMIC WALL TILE	DALTILE	COLOR WHEEL CLASSIC	ARTIC WHITE #0790	3" X 6"	FINISH: MATTE, SEE ELEVATIONS FOR INSTALLATION PATTERN, GROUT: BOSTIK TRUCOLOR-URETHANE WHITE H152, JOINT WIDTH: 1/8"
T-2A	CERAMIC WALL TILE - BULLNOSE	DALTILE	COLOR WHEEL CLASSIC S4369MOD	ARTIC WHITE #0790	3" X 6" BULLNOSE	FINISH: MATTE, SEE ELEVATIONS FOR INSTALLATION PATTERN, GROUT: BOSTIK TRUCOLOR-URETHANE
WC-1	CUSTOM WALLCOVERING	TECTONICS	"TYPO"	CUSTOM ORANGE	-	OWNER PROVIDED, CONTRACTOR INSTALLED, DRYWALL FINISH: LEVEL 5, USE TS-6 AT ALL EXPOSED EDGES
WC-2	CUSTOM WALLCOVERING	-	"ABSTRACT"	CUSTOM GRAY	-	OWNER PROVIDED, CONTRACTOR INSTALLED, DRYWALL FINISH: LEVEL 5
WC-3	FABRITRACK PANEL SYSTEM	CARNEGIE	XOREL METEOR 6427	722	56"W	PROVIDE SCRIM AS NEEDED TO PREVENT TRANSPARENCY TO SUBSTRATE; REFER TO FINISH PLAN AND SHEET A501 FOR MORE DETAIL.
WC-4	ACOUSTIC WALL PANELS - ATM	CARNEGIE XOREL ARTFORM	CIRCLE 3D	METEOR 722	MEDIUM	REFER TO ELEVATION 3/A402 FOR FURTHER DETAIL
WC-5	ACOUSTIC WALL PANELS - ATM	CARNEGIE XOREL ARTFORM	CIRCLE 3D	METEOR 2024	MEDIUM	REFER TO ELEVATION 3/A402 FOR FURTHER DETAIL
WC-6	ACOUSTIC WALL PANELS - ATM	CARNEGIE XOREL ARTFORM	CIRCLE 3D	SEMBLANCE 4	MEDIUM	REFER TO ELEVATION 3/A402 FOR FURTHER DETAIL
WD-1	WOOD PLANK	OHIO MADE OR EQUAL	PRE-FINISHED WHITE OAK PLANKS	FACTORY APPLIED SURFACE UV CURED URETHANE	5"W X 12" - 48"L	COMPOSITION: NATURAL WOOD VENEER LAMINATED ON 3-PLY RECYCLED MDF CORE, VENEER: CHARACTER GRADE, SLICED HARDWOOD, EDGE PROFILE: TONGUE AND GROOVE
FCP-1	FIBER CEMENT PANEL	NICHIHA	VINTAGE WOOD - INTEGRATED FINISH	REDWOOD	17-7/8 H x 71- 9/16 L	USE MANUFACTURER'S RECCOMENDED ACCESSORIES FOR INTERIOR WALL INSTALLATION. REFER TO ELEVATION 2/A402 FOR MORE DETAIL.
FCP-4	FIBER CEMENT PANEL	NICHIHA	KURASTONE SERIES STACKEDSTONE- INTEGRATED FINISH	MOUNTAIN	-	USE MANUFACTURER'S RECCOMENDED ACCESSORIES FOR INTERIOR WALL INSTALLATION. REFER TO ELEVATION 2/A402 FOR MORE DETAIL.
FRP-1	FIBER REINFORCED PANEL	CRANE COMPOSITES	GLASBOARD	WHITE 83	48"H ABOVE WALL BASE	PROVIDE COORDINATING MOLDING AND TRIM
PLY-1	FIRE TREATED PLYWOOD	-	-	-	3/4" THICK	INSTALL FLOOR TO CEILING, PAINT WITH (2) COATS OF FIRE RETARDANT PAINT, DO NOT PAINT OVER FIRE RETARDANT LABEL ON PLYWOOD, REFER TO ELECTRICAL DRAWINGS FOR MORE INFORMATION
CEILINGS						
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG	ULTIMA 1912	WHITE	24" X 24"	GRID: SUPRAFINE XL 9/16"
FCC-1	FIBER-CEMENT PANELN SYSTEM CEILING/SOFFIT	NICHIHA	VINTAGE WOOD - INTEGRATED FINISH	REDWOOD	17-7/8 H x 71- 9/16 L	USE MANUFACTURER'S RECCOMENDED ACCESSORIES FOR EXTERIOR CEILING, SOFFIT, AND INTERIOR WALL INSTALLATION. REFER TO ELEVATION RCP FOR MORE DETAIL.
CLD-1	ACCENT SUSPENDED CLOUD	ARMSTRONG	INFUSIONS SHAPES 7156	SENSITIVE SHADOW	48" X 48"	PROVIDE MANUFACTURER'S RECCOMENDED HANGING CABLES; REFER TO RCP FOR HANGING HEIGHTS.
CASEWORK						
PL-1	PLASTIC LAMINATE	WILSONART	-	NEW AGE OAK 7938-78	-	FINISH: FINEGRAIN 78
PL-2	PLASTIC LAMINATE	FORMICA	-	DOVER WHITE 7197-90	-	FINISH: GLOSS 90
PL-3	NOT USED					
PL-4	PLASTIC LAMINATE	NEVAMAR	JETT BLACK S6053T	-	-	FINISH: TEXTURED/ SUEDE
SS-1	SOLID SURFACE	ARISTECH	STUDIO COLLECTION	COTTONWOOD K-16600	1/2" THICK	-
WINDOW TREATMENTS						
WT-1	MANUAL ROLLER SHADE	DRAPER	FLEXSHADE SYSTEM	CLEAR ANODIZED	-	
TRANSITIONS						
TS-1	CARPET TO VCT	TARKETT	ADAPTOR	MEDIUM GRAY 28	-	GAUGE TO MATCH FLOORING THICKNESS, SEE DETAIL 1/ID100
TS-2	CARPET TO TILE	SCHLUTER	SCHIENE	ANODIZED ALUMINUM	-	GAUGE TO MATCH FLOORING THICHNESS, SEE DETAIL 2/ID100
TS-3	FLOORING TO SEALED CONCRETE	ROPPE	-	CHARCOAL 123	CONTRACTOR TO SELECT BASED ON FLOORING THICKNESS	PROFILE: REDUCER, SEE DETAIL 3/ID100
TS-4	INTERIOR TO EXTERIOR	-	-	-	-	G.C. SHALL PROVIDE APPROPRIATE FLOORING TRANSITIONS AT EXTERIOR DOOR THERSHOLDS THAT COMPLY WITH ACCESSIBILITY CODES.
TS-5	J MOLDING TRIM	FRY REGLET	STYLE: JDM-50	BUFFED SATIN STAINLESS STEEL	-	-
TS-6	WALLCOVERING TRIM	FRY REGLET	WCTBT125-217	BUFFED SATIN STAINLESS STEEL	-	-

INTERIOR FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	WALL BASE	WALL FINISHES NORTH	WALL FINISHES EAST	WALL FINISHES SOUTH	WALL FINISHES WEST	CEILING FINISH	CASEWORK FINISHES BASE	CASEWORK FINISHES UPPER	CASEWORK FINISHES TOP & SPLASH	COMMENTS
100	VESTIBULE	CPT-3	RB-1	PT-1	PT-1	PT-1	FCP-1, FCP-4	WD-2	-	-	-	-
101	ATM	CPT-3, CPT-4	RB-1	PT-1, PT-4, PT-2, WC-4, WC-5, WC-6	PT-1	PT-1	PT-1	WD-2	-	-	-	-
102	LOBBY	CPT-1	RB-1	PT-1, PT-2, WC-3	PT-1, WC-1	PT-1, PT-2, WC-3	PT-1	PT-4	-	-	-	-
103	CHAT LOUNGE	CPT-1, CPT-2	RB-1, WB-1	PT-1, PT-2, WC-3	PT-1	PT-1, PT-2, WC-3	PT-1, WD-1	PT-4	-	-	-	-
104	WAITING	CPT-1	RB-1	PT-1, PT-2, WC-3	PT-1	PT-1, PT-2, WC-3	PT-1	PT-4	-	-	-	-
105	GATHERING AREA	CPT-1	RB-1	PT-1, WT-1	PT-1	PT-1	PT-1	PT-4	-	-	-	-
106	COLLABORATION	CPT-1	RB-2	PT-1	PT-1	PT-1, WT-1	WC-2	ACT-1	-	-	-	-
107	CONFERENCE	CPT-1	RB-2	PT-1	WC-2	PT-1, WT-1	PT-1	ACT-1	-	-	-	-
108	BREAKOUT ROOM	CPT-1	RB-1	PT-1	PT-1	PT-1, WT-1	PT-2	ACT-1	-	-	-	-
109	FLEX	CPT-1	RB-2	PT-1	WC-2	PT-1	PT-1	ACT-1	-	-	-	-
110	BREAK ROOM	VCT-1	RB-2	PT-2	PT-1	PT-1, WT-1	PT-2	ACT-1	PL-1	PL-1	SS-1	-
111	OFFSTAGE	CPT-1	RB-2	PT-1	PT-2	PT-1	PT-1	ACT-1	-	-	SS-1	-
112	ELEC / IT ROOM	SC-1	RB-2	PT-1, PLY-1	PT-1, PLY-1	PT-1, PLY-1	PT-1, PLY-1	-	-	-	-	-
113	CORRIDOR	CPT-3	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	-	-	-	-
114	RESTROOM	T-1	TB-1	PT-1, T-2	T-2	PT-1	PT-1	ACT-1	-	PL-2	-	-
115	RESTROOM	T-1	TB-1	PT-1, T-2	PT-1	PT-1	PT-1, T-2	ACT-1	-	PL-2	-	-
116	JAN	VCT-1	RB-2	PT-1, FRP-1	PT-1	PT-1	PT-1, FRP-1	ACT-1	-	-	-	-
117	HUB	CPT-1	RB-2	PT-1, WT-1	PT-1	PT-1	WC-2	ACT-1	-	-	-	-
118	WORK ROOM	CPT-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	PL-1	PL-1	SS-1	-
119	STORAGE	VCT-1	RB-2	PT-1	PT-1	PT-1	PT-1	ACT-1	-	-	-	-

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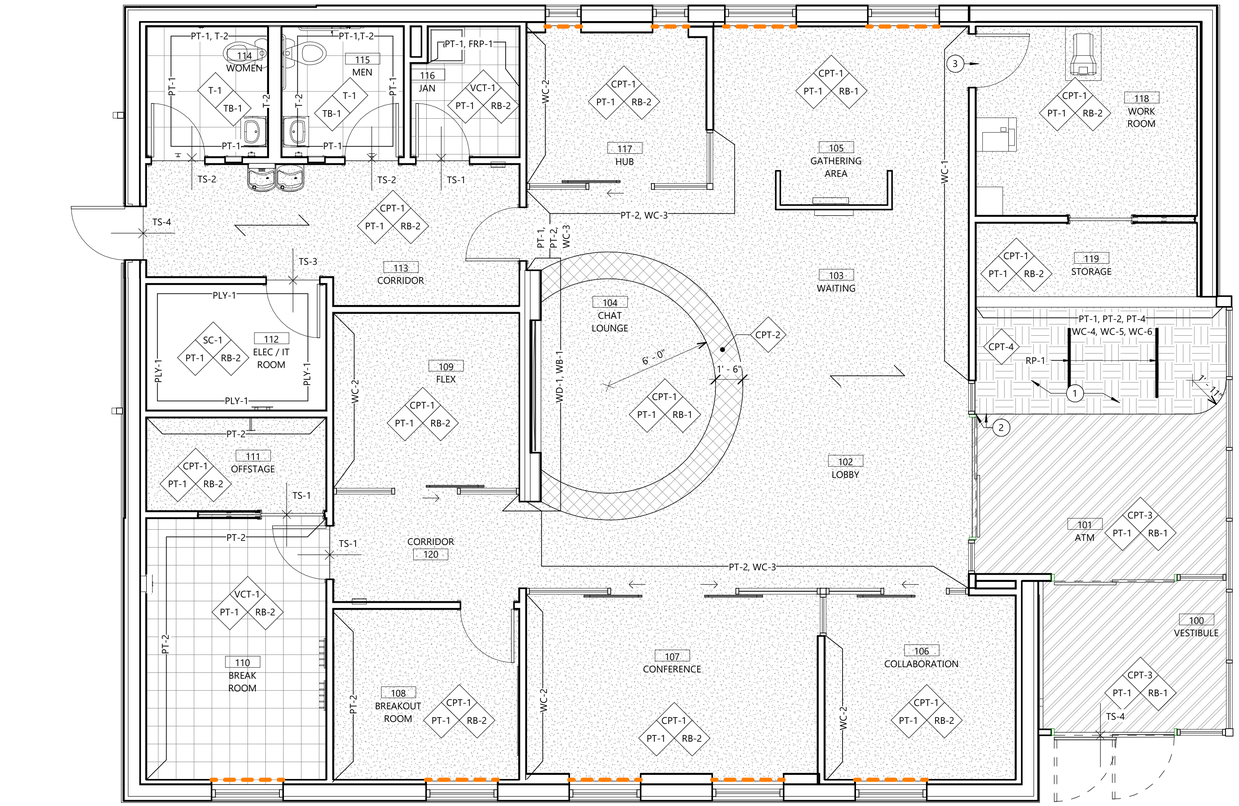

T.N.

1 ID200 FINISH PLAN
1/4" = 1'-0"

GENERAL NOTES

1. PROVISIONS OF CHAPTER 8 INTERIOR FINISHES SHALL GOVERN THE USE OF MATERIALS AS INTERIOR FINISHES BY LIMITING THE ALLOWABLE FLAMESPREAD AND SMOKE DEVELOPMENT BASED ON THE LOCATION AND OCCUPANCY.
2. MINIMUM INTERIOR FINISH CLASSIFICATION FOR OCCUPANCY TYPE & SPRINKLED EXITS = CLASS B, EXIT ACCESS = CLASS C, OTHER SPACES = CLASS C
3. CARPET SHALL COMPLY WITH IBC 804.3 REFER TO PROJECT SPECIFICATIONS FOR GENERAL CONSTRUCTION REQUIREMENTS.
4. ALL PAINTS, SEALANT, MASTICS, AND ADHESIVE SHALL BE LOW-VOC.
5. ALL FINISHES SHALL BE BID AS SPECIFIED. ANY SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT PRIOR TO SUBMISSION FOR PRICING.
6. G.C. SHALL BE RESPONSIBLE FOR DELIVERY LEAD TIMES FOR ALL FINISHES. ALL DELIVERY TIMES MUST BE CONFIRMED AND ANY FINISHES THAT HAVE EXCESSIVE LEAD TIMES, BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY. G.C. TO ALLOW FOR ANY ACCLIMATION TIME AS REQUIRED BY THE MANUFACTURER.
7. ALL FINISHES SHALL BE INSPECTED UPON ARRIVAL TO THE JOB SITE FOR DEFECTS AND DYE LOT CONSISTENCY. NOTIFY THE ARCHITECT OF ANY DEFECTS PRIOR TO INSTALLATION. THE ARCHITECT SHALL ALSO BE NOTIFIED IMMEDIATELY OF ANY INSTALLATION PROBLEMS.
8. ALL FINISHES SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. NONE OF THE FINISHES SHALL BE INSTALLED UNDER CONDITIONS WHICH WOULD JEOPARDIZE THE QUALITY OF WORK.
9. G.C.'S MOISTURE TESTING OF SLAB SHALL BE CONDUCTED IN A TIMELY MANNER AS NOT TO DELAY THE INSTALLATION OF FLOORING FINISHES. THE COORDINATION OF TESTING, INCLUDING TIME FOR INTERPRETATION OF RESULTS, SHALL BE INCLUDED IN THE PROJECT SCHEDULE.
10. ALL SURFACES SHALL BE PREPARED APPROPRIATELY TO RECEIVE THE SPECIFIED FINISH.
11. ALL IMPERFECTIONS AND SLIGHT DEPRESSIONS IN THE FLOOR SURFACE SHALL BE SKIM COATED.
12. WALLS AND CEILINGS SHALL BE PROPERLY PREPARED, SPACKLED, SANDED, ETC. TO PROVIDE A SMOOTH FINISH AND SURFACE READY FOR PRIMER AND PAINT TO ACHIEVE A LEVEL 4 FINISH, U.N.O.
13. FINISHES OF THE SAME KIND SHALL ALIGN AND NAP, WEAVE, GRAIN, OR PATTERN SHALL RUN IN THE SAME DIRECTION, U.N.O.
14. G.C. TO PROVIDE REDUCER STRIPS WHERE FLOORING FINISHES OF DIFFERENT MATERIALS OCCUR. REDUCER STRIP SHALL BE APPROPRIATE TO THE TRANSITION. REFER TO FLOORING TRANSITION DETAILS AND FINISH LEGEND.
15. WHERE FLOORING FINISHES OF DIFFERENT THICKNESS MEET, FLOOR SHALL BE FILLED TO A MAXIMUM SLOPE OF 1/4" PER 12'-0" TO ALLOW A SMOOTH TRANSITION.
16. WHERE FLOORING FINISHES MEET AT DOORWAYS, TRANSITION OF FINISHES SHALL OCCUR DIRECTLY UNDER THE CENTER OF THE CLOSED DOOR LEAF, U.N.O.
18. ALL TILE GROUT JOINTS TO BE 1/8" THICK, U.N.O.
19. VERIFY EXPANSION JOINT LOCATIONS PRIOR TO TILE INSTALLATION. EXPANSION JOINT CAULK COLOR TO BE SELECTED FROM SHOP DRAWINGS FROM APPROVAL.
20. ALL WALL PAINT TO BE EGGSHELL FINISH, U.N.O. ALL TRIM PAINT TO BE SEMI-GLOSS FINISH, U.N.O. ALL CEILING PAINT TO BE FLAT FINISH, U.N.O. REFER TO FINISH LEGEND AND SCHEDULE FOR PAINT COLORS. RESTROOM PAINT TO BE ENAMEL FINISH, U.N.O.
21. ALL COVER PLATES, SWITCHES (TOGGLES, SLIDES, ETC.), RECEPTACLES, AND NETWORK CONNECTION FINISH COLOR SHALL BE WHITE.
22. ALL FINISHES OF CEILING MOUNTED SPRINKLERS, SPEAKERS, ETC. SHALL SMALL MATCH ADJACENT CEILING COLOR.
23. WOOD SHELVES, TRIM, AND PAINTED DOORS SHALL BE RECEIVE SANDING, PRIMING, AND TWO FULL COATS OF SEMI-GLOSS PAINT. THE FINISHED SURFACE SHALL BE FREE OF BRUSH MARKS AND IMPRESSIONS OF WOOD GRAIN.
24. G.C. TO EXAMINE ALL FINISHES AT THE COMPLETION OF WORK IN AN AREA AND PROCEED WITH TOUCH-UPS AS NECESSARY.
25. REMOVE ALL PAINT OR STAIN SPILLED, SPLATTERED, OR SPLASHED ON ADJACENT SURFACES.
26. ALL WORK WHICH IS JUDGED TO BE UNSATISFACTORY BY THE ARCHITECT SHALL BE REJECTED AND REPAIRED TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.
27. ALL WALLS TO RECEIVE WALLCOVERING SHALL BE LEVEL 5 FINISH.

FINISH PLAN KEYED NOTES

1. SEE ELEVATION 3/A402 FOR EXTENT OF ATM FINISHES.
2. ALIGN FINISH TRANSITION WITH INTERIOR GLAZING MULLION
3. PAINT EXTERIOR SIDE OF DOOR 118 PT-6. SEE ELEVATION 2/A403 FOR FURTHER DETAIL.

LEGEND

- CPT-1
- CPT-2
- CPT-3
- CPT-4
- T-1
- VCT-1
- SC-1
- WINDOW SHADE, SEE FINISH SCHEDULE FOR TYPE.
- TRANSITION STRIP
- CARPET ORIENTATION

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001207
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	JW
DRAWN BY:	RI
DESIGNED BY:	RSH

PROJECT NUMBER:
524-0368-028

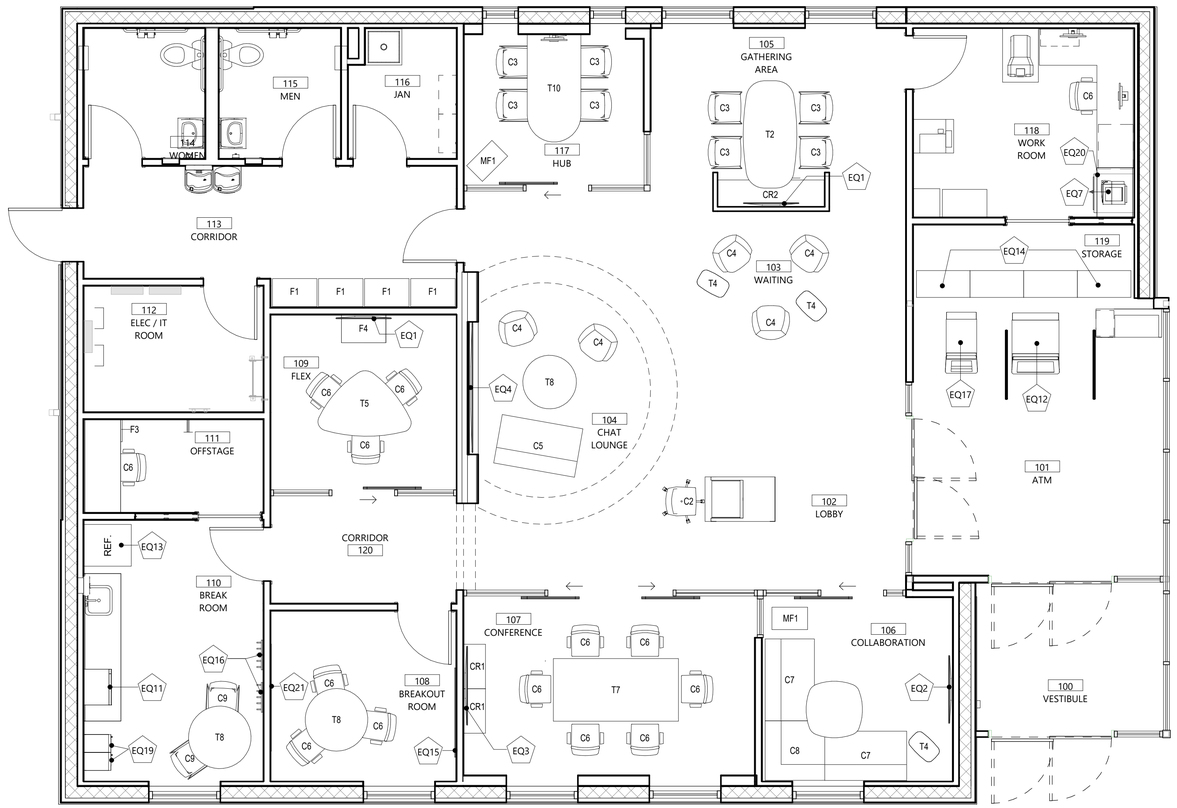
SHEET TITLE:

INTERIOR FINISH PLAN

SHEET ID:

ID200

PROJECT STATUS:
PERMIT DOCUMENTS



T.N.

1 ID300 FFE PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PRODUCT		SIZE (WxHxD)	FURNISHED BY	INSTALLED BY	COMMENTS
		MANUFACTURER	MODEL				
EQ1	43" MONITOR	SAMSUNG	QM43R	-	OWNER	OWNER	ENERGY STAR COMPLIENT. MOUNTING HARDWARE PER VENDER SPECIFIFICATIONS
EQ2	50" MONITOR	SAMSUNG	QM50R	-	OWNER	OWNER	ENERGY STAR COMPLIANT. MOUNTING HARDWARE AS PER VENDOR SPECIFICATIONS
EQ3	55" MONITOR	SAMSUNG	QM55R	-	OWNER	OWNER	ENERGY STAR COMPLIANT. MOUNTING HARDWARE AS PER VENDOR SPECIFICATIONS
EQ4	98" MONITOR	SAMSUNG	QM98N	86.39W X 49.21"H X 2.97"D	OWNER	OWNER	ENERGY STAR COMPLIANT. MOUNTING HARDWARE PER VENDER SPECIFIFICATIONS
EQ5	SHRED TOTE	-	-	-	OWNER	OWNER	-
EQ6	ICI MACHINE	-	-	-	OWNER	OWNER	-
EQ7	MICRO PRINTER	-	-	-	OWNER	OWNER	-
EQ9	MULTIFUNCTION DEVICE	-	-	-	OWNER	OWNER	-
EQ11	MICROWAVE	WHIRLPOOL	WMC30516AW (WHITE)	21.75" X 13" X 17.25"	GC	GC	ENERGY STAR COMPLIENT. GC TO COORDINATE PURCHASING W/ PNC PM
EQ12	FREE STANDING ATM	HYOSUNG	-	-	OWNER	OWNER	-
EQ13	REFRIGERATOR (FULL HEIGHT)	WHIRLPOOL	WRT134TFDW (WHITE)	28" X 62.75" X 32.875"	OWNER	GC	ENERGY STAR COMPLIANT. G.C. TO COORDINATE PURCHASING W/ PNC PM
EQ14	FREESTANDING HEAVY DUTY SHELVING	HALLOWELL	HI-TECH OPEN TYPE (GRAY)	36" X 87" X 18"	OWNER	OWNER	-
EQ15	WHITEBOARD	CLARIDGE OR SIMILAR	-	4' X 6'	OWNER	OWNER	-
EQ16	COAT HOOKS	UMBRA	FLIP 5 WALL MOUNTED HOOK	20" X 2.65" X 1.25"	GC	GC	-
EQ17	FREE STANDING ATM	NCR	-	-	OWNER	OWNER	-
EQ19	3-TIER STEEL LOCKERS	PENCO PRODUCTS, INC.	VANGUARD 3-TIER	12"W X 15"D X 72"H	OWNER	OWNER	3-TIER W/FLAT TOPS AND 6" LEGS. BUILT IN COBO LOCK & (1) CONTROL KEY
EQ20	SAFE	-	-	-	OWNER	OWENR	-
EQ21	CORKBOARD	CLARIDGE OR SIMILAR	-	3' X 5'	OWNER	OWNER	MOUNT CORKBOARD OFFSET ON WALL SO IT DOES NOT INTERFERE WITH DOOR WHEN IT IS AT 90 DEGREES

FURNITURE SCHEDULE

KEY	MANF.	PRODUCT	FINISH
C2	HAWORTH	VERY CONFERENCE STOOL	SEAT & BACK: BIG DIAGONAL - AMBER; SHELL: SLATE; TRIM; BLACK; FRAME: GUNMETAL
C3	HAWORTH	VERY WIRE STOOL	SEAT: BRISA COLOR: ASH, BACK: LUNA TEXTILES, LINEN COLOR: APRICOT, POLY SHELL: FOG, BASE: CHROME
C4	HAWORTH	POPPY GUEST SEATING	BACK: ENGLISH TWEED COLOR: OXFORD, SEAT: WELLINGTON COLOR: XJ-ST STORM, BASE: CLEAR ON WHITE OAK
C5	HAWORTH	RIVERBEND LOUNGE SEATING - HIGH BACK 55W	BACK: DOTS COLOR: MIST, SEAT: BRISA COLOR: CAMBRIDGE, TRIM: ARGENT
C6	HAWORTH	VERY TASK CHAIR	SEAT: BRISA COLOR: CAMBRIDGE , MESH BACK: FOG, TRIM: FOG, FRAME: METALLIC SILVER, BASE: METALLIC SILVER
C7	HAWORTH	RIVERBEND LOUNGE SEATING - MID BACK 55W	BACK: DOTS COLOR: MIST, SEAT: BRISA COLOR: CAMBRIDGE, TRIM: ARGENT
C8	HAWORTH	RIVERBEND LOUNGE SEATING - MID BACK CORNER	BACK: DOTS COLOR: MIST, SEAT: BRISA COLOR: CAMBRIDGE, TRIM: ARGENT
C9	HAWORTH	VERY WIRE SIDE CHAIR	SEAT/BACK: FOG, LEGS: CHROME
CR1	HAWORTH	X SERIES 2H LATERAL FILE - 36"W x 19"D	TOP: NEW AGE OAK, BASE: GRAPHITE
CR2	HAWORTH	A SERIES CREDENZA & PATTERNS WORKWALL	TOP/BASE: NEW AGE OAK H-KC, WORKWALL COLOR: LINEN
F1	HAWORTH	X SERIES 4H, COMBO UNIT	TOP: NEW AGE OAK H-KC, BASE: GRAPHITE
F3	HAWORTH	X SERIES FIXED PEDESTAL, BBF - 15"W x 24"D	J-PULL, TOP/BASE: LINEN
F4	HAWORTH	X-SERIES LATERAL FILE; 2H COMBO UNIT W/LAMINATE TOP	TOP: KONA BLEND; BASE: GRAPHITE
MF1	HAWORTH	X SERIES - 15"W x 24"D	TOP: HBF TEXTILES; MODERN TWEED COLOR: LIPSTICK, BASE: GRAPHITE
T2	HAWORTH	PATTERNS/A SERIES PEBBLE TABLE	TOP: NEW AGE OAK H-KC, BASE: GRAPHITE
T4	HAWORTH	PIP TABLE	TOP: COM ACCENT ORANGE, BASE: GRAPHITE
T5	HAWORTH	SUITE PEBBLE TABLE, "GUITAR PICK"- 44" x 63"	TOP: NEW AGE OAK CUT, BASE: GRAPHITE
T6	HAWORTH	PLANES PEBBLE TABLE - 42" X 42"	TOP: NEW AGE OAK H-KC, BASE: GRAPHITE
T7	HAWORTH	PLANES CONFERENCE TABLE - RECTANGULAR 42"W X 84"L	TOP: NEW AGE OAK H-KC, LEGS: METALLIC SILVER
T8	HAWORTH	PLANES ROUND TABLE - 42"	TOP: NEW AGE OAK H-KC, BASE: GRAPHITE
T10	HAWORTH	CONVERGENT WORKSURFACE PLANES TABLE BASE	TOP: NEW AGE OAK H-KC, BASE: GRAPHITE

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PROJECT ADDRESS:
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LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
HILLARY ANDREN-WISE
NUMBER A-2022001200
ARCHITECT

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: JW
DRAWN BY: RI
DESIGNED BY: RSH
PROJECT NUMBER: 524-0368-028

SHEET TITLE:

FFE PLAN

SHEET ID:

ID300

PROJECT STATUS:
PERMIT DOCUMENTS

GENERAL STRUCTURAL NOTES

DESIGN CRITERIA:

1. ALL WORK TO CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE.

2. LIVE LOADS:

ROOFS	20 PSF

3. SNOW LOADS (ASCE 7-16):

GROUND SNOW LOAD	P_g = 20 PSF
FLAT ROOF SNOW LOAD	P_f = 14 PSF
SNOW EXPOSURE FACTOR	C_e = 1.0
SNOW LOAD IMPORTANCE FACTOR	I_s = 1.0
THERMAL FACTOR	C_t = 1.0
DRIFT SURCHARGE LOAD	P_d = 30.6 PSF
WIDTH OF SNOW DRIFT	w = 7'-5"

4. RAIN LOADS:

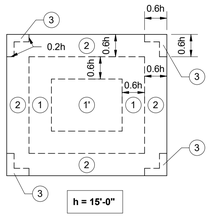
INTENSITY	7.5 IN/HR (15 MINUTE - 100 YEAR)
DESIGN RAIN LOAD	26 PSF

5. SEISMIC DESIGN DATA (ASCE 7-16):

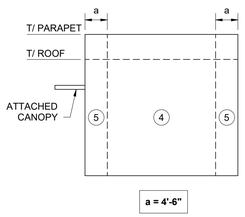
SEISMIC IMPORTANCE FACTOR	I_e = 1.00
MAPPED SPECTRAL RESPONSE ACCELERATIONS	S_s = 0.099 & S_1 = 0.068
SITE CLASSIFICATION	D
SPECTRAL RESPONSE COEFFICIENTS	S_{DS} = 0.106 & S_{D1} = 0.109
SEISMIC DESIGN CATEGORY	B
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC-FORCE-RESISTING SYSTEM	ORDINARY REINFORCED MASONRY SHEAR WALLS
RESPONSE MODIFICATION COEFFICIENT	R = 2
SEISMIC RESPONSE COEFFICIENT	C_s = 0.053
DESIGN BASE SHEAR	V = 13.8 KIPS

6. WIND DESIGN DATA (ASCE 7-16):

ULTIMATE DESIGN WIND SPEED, Vult (3-SECOND GUST)	109 MPH
NOMINAL DESIGN WIND SPEED, Vasd (3-SECOND GUST)	84 MPH
BUILDING RISK CATEGORY	II
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
COMPONENTS AND CLADDING:	
WALLS, WINDOWS & DOORS	SEE CHART & DIAGRAMS BELOW
ROOFS & ATTACHED CANOPIES	SEE CHART & DIAGRAMS BELOW



ROOF PLAN
(GENERIC BUILDING SHOWN)



WALL ELEVATION
(GENERIC BUILDING SHOWN)

COMPONENTS AND CLADDING ULTIMATE WIND PRESSURE (PSF)

ROOFS

ZONE	EFFECTIVE WIND AREA (SF)						
	≤ 10	20	50	100	200	500	≥ 1000
1'	-23.7	-23.7	-23.7	-23.7	-20.4	-16.0	-16.0
1	-41.3	-38.7	-34.9	-32.3	-29.4	-25.9	-25.9
2	-54.5	-51.0	-46.4	-42.9	-39.3	-34.7	-34.7
3	-74.3	-67.2	-58.0	-51.0	-44.0	-34.7	-34.7
ALL ZONES	16.0	16.0	16.0	16.0	16.0	16.0	16.0

WALLS, WINDOWS AND DOORS

ZONE	EFFECTIVE WIND AREA (SF)						
	≤ 10	20	50	100	200	≥ 500	
4	-25.7	-24.7	-23.3	-22.2	-21.2	-19.8	
5	-31.6	-29.5	-26.7	-24.7	-22.5	-19.8	
ALL ZONES	23.7	22.7	21.4	20.2	19.2	17.8	

ATTACHED CANOPIES

LOCATION	EFFECTIVE WIND AREA (SF)		
	≤ 10	50	≥ 100
UPPER SURFACE ONLY	-24.2	-20.8	-16.5
	17.6	16.0	16.0
LOWER SURFACE ONLY	-17.6	-16.1	-16.0
	17.6	16.0	16.0
NET PRESSURE W/ SIMULTANEOUS UPPER & LOWER SURFACES	-19.8	-17.3	-16.0
	19.8	17.3	16.0

NOTES:
1. EDGE ZONE (a) IS DISTANCE FROM CORNERS OF BUILDING AND IS SHOWN ON GENERIC BUILDING DIAGRAMS ABOVE.
2. POSITIVE AND NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY.
3. FOR EFFECTIVE AREAS BETWEEN VALUES GIVEN, INTERPOLATION MAY BE USED. OTHERWISE USE THE LOWER EFFECTIVE AREA.
4. PRESSURES SHOWN ARE ULTIMATE PRESSURES. MULTIPLY BY 0.6 FOR NOMINAL PRESSURES.
5. CALCULATE NET UPLIFT PRESSURES USING ASCE 7 LOAD COMBINATIONS: 0.6D+0.6W (ASD) OR 0.9D+W (LRFD)

GENERAL:

1. THIS STRUCTURAL DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS, AS AN INSTRUMENT OF SERVICE, ARE INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY RS&H, INC. (RS&H) SHALL BE WITHOUT LIABILITY TO RS&H.

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3. NOTES ON THIS AND THE FOLLOWING SHEETS ARE PART OF THE PROJECT REQUIREMENTS BUT ARE NOT INTENDED TO REPLACE THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF THE SPECIFICATIONS AND THESE SHEETS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

4. ALL STRUCTURAL MEMBERS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE FINAL DESIGN LOADS PROVIDED IN THIS DOCUMENT IN THE FINAL ERECTED CONDITION SHOWN HEREIN. THE CONTRACTOR IS RESPONSIBLE FOR CONDITIONS ENCOUNTERED DURING ERECTION AND HANDLING, AND NECESSARY TEMPORARY BRACING AND SHORING. SHORING AND BRACING SHALL BE DESIGNED TO PRECLUDE ANY STRUCTURAL ELEMENT FROM BEING OVERSTRESSED AT ANY POINT DURING CONSTRUCTION.

5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON JOB SITE WITH COMPLETE SET OF LATEST DRAWINGS. NOTES AND DIMENSIONS SHALL BE CHECKED AND VERIFIED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK SO THAT PROPER REMEDIAL WORK CAN BE EXECUTED.

6. CONTRACTOR SHALL REFER TO THE ENGINEER FOR INSTRUCTION FOR ANY DIMENSION NOT GIVEN ON OR OBTAINABLE FROM THE DRAWINGS. THE CONTRACTOR SHALL NOT USE SCALE TO OBTAIN OR VERIFY ANY DIMENSIONS SHOWN ON THESE DRAWINGS.

7. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR OPENINGS, SLEEVES, ETC. NOT SHOWN ON STRUCTURAL DRAWINGS. ALL STRUCTURAL OPENINGS AROUND OR AFFECTED BY ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT SHALL BE VERIFIED WITH THE EQUIPMENT PURCHASED BEFORE PROCEEDING WITH STRUCTURAL WORK AFFECTED.

8. DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIAL.

FOUNDATIONS:

1. GEOTECHNICAL REPORT BY: COOK, FLATT & STROBEL ENGINEERS, P.A.
   REPORT NO.: 21-5937
   JANUARY 7, 2022

2. ALLOWABLE BEARING PRESSURE = 2,500 PSF

3. MINIMUM FROST EMBEDMENT DEPTH = 36"

4. ACCORDING TO THE GEOTECHNICAL REPORT, IT IS ANTICIPATED THAT THE FOUNDATIONS WILL BEAR ON SHALE BEDROCK. HOWEVER, FAT CLAYS WERE ENCOUNTERED IN BORINGS TAKEN FROM OTHER LOCATIONS ON THE SITE. AS STATED IN THE REPORT, THE BUILDING SHALL HAVE UNIFORM BEARING MATERIAL SUPPORTING THE ENTIRETY OF THE FOUNDATION SYSTEM. IF OVER-EXCAVATION IS REQUIRED TO ACHIEVE UNIFORM BEARING, BACKFILL OF THE FOOTINGS SHOULD BE DONE WITH LEAN CONCRETE. REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

5. SLAB-ON-GRADE SHALL BEAR ON MINIMUM 24" OF LOW VOLUME CHANGE MATERIAL, INCLUDING 4" LAYER OF OPEN GRADED STONE (ASTM C33 OR EQUIVALENT MATERIAL) BELOW SLAB-ON-GRADE. REFERENCE THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

6. PREPARE SITE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

7. FILL MATERIAL SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

8. COMPACT SOIL / FILL UNDER FOOTINGS AND SLABS TO A MINIMUM 95% MODIFIED PROCTOR DRY DENSITY ACCORDING TO ASTM D1557.

9. AN INDEPENDENT TESTING AGENCY SHALL INSPECT AND VERIFY COMPACTION OF ALL SUBGRADES AND FILL MATERIALS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED.

10. IF FOOTINGS SHOWN OCCUR IN A DISTURBED, UNSTABLE OR UNSUITABLE SOIL CONTACT THE ENGINEER OF RECORD BEFORE PROCEEDING WITH WORK.

CAST-IN-PLACE CONCRETE:

1. ALL CONCRETE SHALL BE DESIGNED PER ACI 318-14.

2. ALL CONCRETE SHALL BE DESIGNED BY AN APPROVED LABORATORY, AND THE DESIGN MIX SHALL SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO USE.

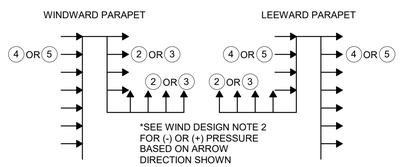
LOCATION	STRENGTH (f'c) @ 28 DAYS
FOUNDATIONS	4,000 PSI
SLAB-ON-GRADE	4,000 PSI
TIE BEAMS	4,000 PSI
ALL OTHER CONCRETE	4,000 PSI

3. ALL CONCRETE SHALL BE NORMAL WEIGHT.

4. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF SLEEVES, MOULDS, FLOOR HINGES, ETC. TO BE CAST INTO THE CONCRETE.

5. EMBEDDED ITEMS THAT WILL SUPPORT STRUCTURAL STEEL CONSTRUCTION SHALL BE PLACED WITHIN THE TOLERANCES PRESCRIBED IN THE LATEST EDITION OF THE AISC "CODE OF STANDARD PRACTICE." FIELD VERIFY LOCATION OF EMBEDDED ITEMS PRIOR TO FABRICATION AND DELIVERY OF STRUCTURAL STEEL TO THE PROJECT SITE.

6. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.



PARAPET WIND APPLICATION DIAGRAM

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.

2. WHERE WELDING IS REQUIRED, REINFORCING STEEL SHALL BE ASTM A706, GRADE 60, AND SHALL BE WELDED WITH E80 ELECTRODES.

3. ALL WELDED WIRE REINFORCING SHALL BE ASTM A1064.

4. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE CLASS B TENSION LAP SPLICES, UNLESS NOTED OTHERWISE. REFER TO CONCRETE TENSION LAP SPLICE SCHEDULE.

5. MINIMUM LAP OF WELDED WIRE FABRIC REINFORCING SHALL BE ONE FULL MESH SIZE PLUS 2", OR A LAP OF 6", WHICHEVER IS GREATER.

6. CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM CLEAR COVER, UNLESS NOTED OTHERWISE:

FOOTINGS	3" BOTTOM & SIDES, 2" TOP
SLAB-ON-GRADE	2" FROM TOP
TIE BEAMS	1 1/2"

7. DETAILING OF REINFORCING SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI DETAILING MANUAL AND THE LATEST EDITION OF THE CRSI "MANUAL OF STANDARD PRACTICE."

8. ALL REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH THE CRSI "MANUAL OF STANDARD PRACTICE" DURING PLACING OF CONCRETE.

9. PROVIDE CORNER REINFORCING TO MATCH HORIZONTAL REINFORCING AT ALL CORNERS OF CONTINUOUS FOOTINGS, BOND BEAMS AND TIE BEAMS.

10. ALL HOOKS IN REINFORCING BARS SHALL BE ACI STANDARD 90-DEGREE HOOKS WITH EMBEDMENT INTO CONCRETE GREATER THAN OR EQUAL TO THE DEVELOPMENT LENGTH (Ldh) FOR STANDARD 90-DEGREE HOOKS, UNLESS NOTED OTHERWISE. REFER TO THE DEVELOPMENT LENGTH (Ldh) SCHEDULE.

11. DOWELS FROM FOUNDATIONS OR SLABS TO WALLS SHALL MATCH WALL REINFORCING, UNLESS NOTED OTHERWISE. DOWELS SHALL BE PLACED BEFORE CONCRETE IS POURED AND SHALL NOT BE PUSHED INTO THE CONCRETE.

STEEL JOISTS:

1. ALL DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS AND BRIDGING SHALL BE IN STRICT ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI):

   SJI-100-15 44TH EDITION STANDARD SPECIFICATION LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS K-SERIES, LH-SERIES, DHL-SERIES, JOIST GIRDERS.

2. DESIGN STEEL ROOF JOISTS FOR NET UPLIFT FORCES PER WIND DESIGN DATA. A DEAD LOAD OF 10 PSF SHALL BE USED IN THE APPROPRIATE LOAD COMBINATION TO CALCULATE NET UPLIFT PRESSURES.

3. PROVIDE SPECIAL SLOPED SEATS IF INDICATED ON DRAWINGS OR AS REQUIRED FOR SLOPED JOIST APPLICATIONS.

4. PROVIDE HORIZONTAL TOP AND BOTTOM CHORD BRIDGING AND X-BRIDGING PER STEEL JOIST INSTITUTE SPECIFICATIONS.

5. PROVIDE UPLIFT BRIDGING AS REQUIRED TO MEET STEEL JOIST INSTITUTE SPECIFICATIONS.

STEEL DECK:

1. R1 ROOF DECK SHALL BE 1 1/2", 22 GAGE, WIDE RIB TYPE "B" GALVANIZED STEEL ROOF DECK WITH THE MINIMUM DECK PROPERTIES AS FOLLOWS:

   t = 0.0295 in
   I_p = 0.155 in^4
   I_n = 0.183 in^4
   S_p = 0.186 in^3
   S_n = 0.192 in^3

2. INSTALLATION OF FASTENERS SHALL BE PER MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS. PROVIDE THE FOLLOWING:

AT SUPPORTS (≤ 3/8" THICK):	HILTI X-HSN 24
AT SUPPORTS (> 1/4" THICK):	HILTI X-ENP-19 L15
AT SIDELAPS:	HILTI SLC 01 HWH

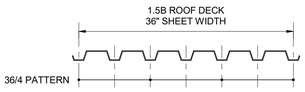
3. DECK ATTACHMENT DESIGNATION:

   36 / X - XX
   - SHEET WIDTH
   - NUMBER OF SUPPORT FASTENERS PER SHEET
   - SPACING OF SIDELAP FASTENERS

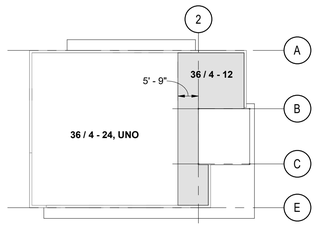
4. SEE ATTACHMENT DIAGRAM BELOW.

5. FASTEN DECK AT ALL EDGE SUPPORTS AT 6" OC.

6. ALL DECK SHALL BE ERECTED AS THREE SPAN CONTINUOUS, UNLESS NOTED OTHERWISE.



TYPICAL FASTENER PATTERN



1 ROOF DECK ATTACHMENT DIAGRAM
SCALE: NTS

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL BE DESIGNED PER AISC 360-16. MATERIALS SHALL BE AS FOLLOWS:

WIDE FLANGED SHAPES	ASTM A992, Fy = 50 KSI
HSS SHAPES (RECT)	ASTM A500 GRADE C, Fy = 50 KSI
ALL OTHER STEEL	ASTM A36, Fy = 36 KSI

2. ALL BOLTS SHALL BE 3/4"Ø ASTM A325N AND SHALL BE SNUG TIGHTENED, UNLESS NOTED OTHERWISE.

3. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE.

4. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO ANSI/AWS D1.1.

5. MINIMUM SIZE OF ALL FILLET WELDS SHALL CONFORM TO TABLE J2.4 OF AISC SPECIFICATIONS EVEN IF SHOWN OTHERWISE ON ARCHITECTURAL, MECHANICAL, OR STRUCTURAL DRAWINGS.

6. STRUCTURAL STEEL NOT ENCASED IN CONCRETE OR MASONRY SHALL BE SHOP PAINTED AS SPECIFIED. ANY ABRASIONS SHALL BE TOUCHED UP AFTER ERECTION.

7. STRUCTURAL STEEL EXPOSED TO WEATHER IN FINISHED STRUCTURE, OR WHERE NOTED ON PLANS, SHALL BE HOT DIP GALVANIZED PER ASTM A123.

8. FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO START OF FABRICATION. FABRICATION SHALL CONFORM TO AISC SPECIFICATIONS.

9. STRUCTURAL GROUT FOR STEEL COLUMNS SHALL BE A NON-SHRINK, NON-EXPANSIVE, NON-METALLIC GROUT WITH A 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.

MASONRY:

1. ALL MASONRY SHALL BE DESIGNED PER TMS 402.

2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A NET AREA COMPRESSIVE STRENGTH AS FOLLOWS:
   1900 PSI FOR TYPE M OR S

3. MORTAR SHALL CONFORM TO ASTM C270 TYPE S OR M. USE TYPE M BELOW GRADE WHEN MASONRY IS IN CONTACT WITH SOIL.

4. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. GROUT ALL CELLS WITH REINFORCING OR EMBEDDED ANCHORS.

5. MINIMUM COMPRESSIVE STRENGTH OF THE MASONRY (f'm) SHALL BE 2,000 PSI UNLESS NOTED OTHERWISE.

6. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE.

7. HORIZONTAL JOINT REINFORCING SHALL BE 9 GAGE GALVANIZED LADDER TYPE. SPACE JOINT REINFORCING AT A MAXIMUM 16" ON-CENTER VERTICAL.

8. BOND OF BLOCK SHALL BE RUNNING BOND UNLESS NOTED OTHERWISE.

9. FILL ALL CAVITIES AND CELLS IN MASONRY BELOW FINISHED FLOOR WITH GROUT.

10. WALLS SHALL BE PROPERLY BRACED AGAINST LATERAL LOADS UNTIL THE ROOF DIAPHRAGM OR OTHER LATERAL SUPPORT SYSTEM HAS BEEN INSTALLED.

11. PROVIDE MASONRY CONTROL JOINTS AT 25'-0" OC MAX UNLESS NOTED OTHERWISE. COORDINATE LOCATIONS WITH ARCHITECTURAL FINISH JOINTS.

12. COORDINATE OPENING LOCATIONS WITH ARCHITECTURAL AND SUBMIT SHOP DRAWINGS WITH LOCATIONS AND DIMENSIONS TO ENGINEER FOR REVIEW.

COLD-FORMED STEEL FRAMING:

1. ALL COLD FORMED STEEL FRAMING SHALL BE DESIGNED PER AISI S100-16 "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, 2016."

2. THE MANUFACTURER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE COLD-FORMED STEEL FRAMING SYSTEM INCLUDING SIZE, GAUGE, STRENGTH, SPACING OF MEMBERS, ANCHORAGE TO STRUCTURE, CONNECTIONS, ANGLES, CLIPS, BRACING, STRAPPING, BRIDGING, SUPPLEMENTARY FRAMING, FRAMING AT OPENINGS AND AT EXPANSION JOINTS.

3. SUBMITTALS SHALL CLEARLY IDENTIFY ALL APPLICABLE CODES, LIST THE DESIGN CRITERIA AND SHOW ALL DETAILS AND DRAWINGS NECESSARY FOR PROPER FABRICATION AND INSTALLATION.

4. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI WHO SHALL BE THE DELEGATED ENGINEER.

5. THE FRAMING SYSTEM SHALL BE DESIGNED TO RESIST ALL APPLIED LOADINGS INCLUDING GRAVITY LOADS, CONSTRUCTION LOADS, WIND LOADS (HORIZONTAL AND VERTICAL) AND ALL OTHER LOADS AS REQUIRED BY THE APPLICABLE BUILDING CODES.

6. THE FRAMING SYSTEM SHALL ACCOUNT FOR MOVEMENT OF THE STRUCTURE AND OTHER COMPONENTS, INCLUDING, BUT NOT LIMITED TO, DEFLECTION OF THE PRIMARY STRUCTURE, CONSTRUCTION TOLERANCES AND MAINTAINING REQUIRED CLEARANCE AT OPENINGS.

DELEGATED DESIGN SUBMITTALS:

1. DELEGATED DESIGN SUBMITTALS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE ARCHITECT/ENGINEER AND SHALL BE REVIEWED PRIOR TO INSTALLATION.

2. DELEGATED DESIGN SUBMITTALS ARE AS FOLLOWS:

   A. COLD-FORMED STEEL FRAMING

3. ALL DELEGATED DESIGN SUBMITTALS SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSOURI.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
RANDOLPH L. MUSSER
NUMBER E-23220
REGISTERED PROFESSIONAL ENGINEER
2-15-2022

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	DFW / RM
DRAWN BY:	MCM
DESIGNED BY:	MCM
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SHEET TITLE:

GENERAL STRUCTURAL NOTES

SHEET ID:

S001

PROJECT STATUS:
PERMIT DOCUMENTS

ABBREVIATIONS

&	AND
@	AT
AB	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECT, URAL
B/B	BACK TO BACK
B/	BOTTOM OF
BC	BOTTOM CHORD
BLDG	BUILDING
BLK	BLOCK
BLW	BELOW
BM	BEAM
BOD	BOTTOM OF DECK
BOTT	BOTTOM
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BTWN	BETWEEN
C/C	CENTER TO CENTER
CCJ	CRACK CONTROL JOINT
CFS	COLD-FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT(S)
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE, TION
CTRD	CENTERED
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DT	DOUBLE TEE
DWG(S)	DRAWING(S)
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMBED	EMBEDMENT
ENG	ENGINEER
EOD	EDGE OF DECK
EOR	ENGINEER OF RECORD
EOS	EDGE OF SLAB
EP	EMBEDDED PLATE
EQ	EQUAL
EQUIP	EQUIPMENT
EQUV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	FOOTING MARK
F/	FACE OF
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FLG	FLANGE
FLR	FLOOR
FDN	FOUNDATION
FS	FAR SIDE
FT	FOOT, FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GLB	GLU-LAM BEAM
GR	GRADE
GRTG	GRATING
HK	HOOK
HND	HAND
HORIZ	HORIZONTAL
HP	HIGH POINT
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
ID	INSIDE DIAMETER
IN	INCH
INT	INTERIOR
INTERM	INTERMEDIATE

ABBREVIATIONS

JST	JOIST
JT	JOINT
KB	KNEE BRACE
KO	KNOCK OUT
LB, #	POUND
LG	LONG
LL	LIVE LOAD
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LOC	LOCATION
LP	LOW POINT
LSL	LONG SLOTTED HOLES
LT	LIGHT
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
LWT	LIGHTWEIGHT
MATL	MATERIAL
MAX	MAXIMUM
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
OPP HND	OPPOSITE HAND
PAF	POWDER ACTUATED FASTENER(S)
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PL	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PROJ	PROJECTION
PSL	PARALLEL STRAND LUMBER
PT	PRESSURE TREATED
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE, MENT, ING
REM	REMAINDER
REQ'D	REQUIRED
RET	RETURN
REV	REVISION
RTN	RETURN
RTU	ROOF TOP UNIT
SCH	SCHEDULE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPA	SPACE, ED, ING
SPEC	SPECIFICATION(S)
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
STRL	STRUCTURAL
SW	SHORT WAY / SHEAR WALL
SYP	SOUTHERN YELLOW PINE
T/	TOP OF
T&B	TOP AND BOTTOM
TB	TIE BEAM
THK	THICK, NESS
TRANS	TRANSVERSE
TS	TUBE STEEL, THICKENED SLAB MARK
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WD	WOOD
W/	WITH
W/O	WITH OUT
WF	WIDE FLANGE, WALL FOOTING MARK
WP	WORKING POINT
WT	WEIGHT, TEE
WWF	WELDED WIRE FABRIC

CONCRETE TENSION LAP SPLICE SCHEDULE

BAR SIZE	3000 PSI		4000 PSI		5000 PSI	
	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	28"	22"	24"	19"	22"	16"
#4	37"	29"	32"	25"	29"	21"
#5	47"	36"	40"	31"	36"	26"
#6	56"	43"	48"	37"	43"	31"
#7	81"	63"	70"	54"	63"	45"
#8	93"	72"	80"	62"	72"	51"
#9	105"	81"	91"	70"	81"	57"
#10	118"	91"	102"	79"	91"	64"
#11	131"	101"	103"	87"	101"	71"

NOTES:
1. TABULATED VALUES ARE BASED ON THE FOLLOWING:
   - NORMAL WEIGHT CONCRETE
   - UNCOATED, GRADE 60 REINFORCING
   - CLEAR COVER NOT LESS THAN 1.0 x BAR DIAMETER
   - CLEAR SPACING NOT LESS THAN 2.0 x BAR DIAMETER
   - CLASS B TENSION LAP SPLICE
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.

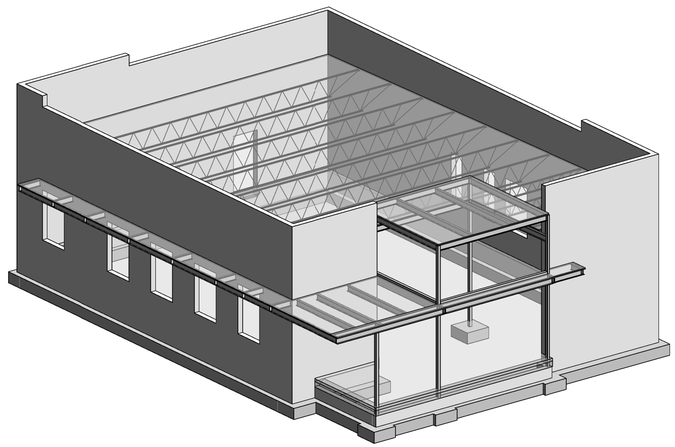
DEVELOPMENT LENGTH (L_{dh}) SCHEDULE FOR ACI STD 90° HOOKS

BAR SIZE	3000 PSI	4000 PSI	5000 PSI
#3	8"	7"	6"
#4	11"	10"	9"
#5	14"	12"	11"
#6	16"	14"	13"
#7	19"	17"	15"
#8	22"	19"	17"
#9	25"	21"	19"
#10	28"	24"	22"
#11	31"	27"	24"

NOTES:
1. TABULATED VALUES ARE BASED ON THE FOLLOWING:
   - NORMAL WEIGHT CONCRETE
   - UNCOATED, GRADE 60 REINFORCING
   - ACI STANDARD 90° HOOK BEND AND EXTENSIONS ARE PROVIDED

MASONRY LAP SPLICE SCHEDULE

BAR SIZE	LAP SPLICE
#3	27"
#4	36"
#5	45"
#6	54"



1 STRUCTURAL PERSPECTIVE VIEW

SCALE: NTS

NOTES:
1. PERSPECTIVE VIEW IS PROVIDED FOR REFERENCE ONLY. NOT ALL STRUCTURAL MEMBERS ARE SHOWN. THIS VIEW SHOULD NOT BE USED FOR BIDDING, DETAILING, FABRICATION, OR ERECTION.

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ABBREVIATIONS, SCHEDULES AND PERSPECTIVE VIEW

SHEET ID:

S002

PROJECT STATUS:

PERMIT DOCUMENTS

STRUCTURAL STEEL

SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF AISC 360 AND THE TABLE BELOW, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

TASK	OBSERVE	PERFORM
INSPECTION TASKS PRIOR TO WELDING:		
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X	
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE		X
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X
MATERIAL IDENTIFICATION (TYPE/GRADE)	X	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	X	
FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X	
CONFIGURATION AND FINISH OF ACCESS HOLES	X	
FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, GAPS AT ROOT) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X	
INSPECTION TASKS DURING WELDING:		
CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	X	
NO WELDING OVER CRACKED TACK WELDS	X	
ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	X	
WPS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) • PROPER POSITION (F, V, H, OH)	X	
WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	X	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS		X
INSPECTION TASKS AFTER WELDING:		
WELDS CLEANED	X	
SIZE, LENGTH AND LOCATION OF WELDS		X
WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY		X
ARC STRIKES		X
K-AREA		X
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES		X
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)		X
REPAIR ACTIVITIES		X
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		X
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	X	
INSPECTION TASKS PRIOR TO BOLTING:		
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS		X
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	X	
CORRECT FASTENERS SELECTED FOR THE JOIN DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	X	
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	X	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	X	
PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	X	
INSPECTION TASKS DURING BOLTING:		
FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	X	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	X	
INSPECTION TASKS AFTER BOLTING:		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		X

STRUCTURAL STEEL (CONTINUED)

OTHER INSPECTION TASKS:		
INSPECT PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. VERIFY DIAMETER, GRADE, TYPE AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, SHALL BE VERIFIED AND DOCUMENTED PRIOR TO PLACEMENT OF CONCRETE		X
INSPECT FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE. TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS	X	
ACCEPTANCE OR REJECTION OF JOINT DETAILS AND THE CORRECT APPLICATION OF JOINT DETAILS SHALL BE DOCUMENTED		

COLD-FORMED STEEL FLOOR AND ROOF DECK

SPECIAL INSPECTION FOR COLD-FORMED STEEL FLOOR AND ROOF DECK SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF SDI QA/QC. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF SDI QA/QC AND THE TABLE BELOW, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

TASK	OBSERVE	PERFORM
INSPECTION TASKS PRIOR TO DECK PLACEMENT:		
VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS		X
DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES		X
INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT:		
VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS		X
VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS		X
DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES		X
INSPECTION OR EXECUTION TASKS PRIOR TO WELDING:		
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	X	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	X	
MATERIAL IDENTIFICATION (TYPE/GRADE)	X	
CHECK WELDING EQUIPMENT	X	
INSPECTION OR EXECUTION TASKS DURING WELDING:		
USE OF QUALIFIED WELDERS	X	
CONTROL AND HANDLING OF WELDING CONSUMABLES	X	
ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE)	X	
WPS FOLLOWED	X	
INSPECTION OR EXECUTION TASKS AFTER WELDING:		
VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS		X
WELDS MEET VISUAL ACCEPTANCE CRITERIA		X
VERIFY REPAIR ACTIVITIES		X
DOCUMENT ACCEPTANCE OR REJECTION OF WELDS		X
INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING:		
MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	X	
PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	X	
PROPER STORAGE FOR MECHANICAL FASTENERS	X	
INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING:		
FASTENERS ARE POSITIONED AS REQUIRED	X	
FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	X	
INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING:		
CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS		X
CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS		X
CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS		X
VERIFY REPAIR ACTIVITIES		X
DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS		X

STATEMENT OF SPECIAL INSPECTION:

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK BEING DONE IS ON THE PREMISES OF A FABRICATOR THAT IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVED FABRICATORS MUST SUBMIT A CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATIONS SUCH AS STRUCTURAL STEEL, PRECAST CONCRETE, GLUED LAMINATED TIMBER, ETC.
3. ALL INSPECTIONS SHALL BE PERFORMED BY INDEPENDENT SPECIAL INSPECTORS. JOB SITE VISITS BY THE STRUCTURAL ENGINEER OR BUILDING OFFICIAL DO NOT CONSTITUTE AND ARE NOT A SUBSTITUTE FOR INSPECTIONS BY A SPECIAL INSPECTOR.
4. ALL INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND ENGINEER OF RECORD. THE FINAL REPORT BY THE SPECIAL INSPECTOR(S) MUST CERTIFY THAT THE ENTIRE STRUCTURAL SYSTEM COMPLIES WITH THE APPROVED PLANS AND SPECIFICATIONS.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT THESE INSPECTIONS ARE PERFORMED.
6. WORK REQUIRING SPECIAL INSPECTION SHALL BE INSPECTED BY THE SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS PERFORMED AND AT THE COMPLETION OF THE WORK.
7. INSPECTION TASKS ARE AS FOLLOWS:

   PERIODIC OR OBSERVE: THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE.

   CONTINUOUS OR PERFORM: THESE TASKS SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
8. THE FOLLOWING SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS BY THE BUILDING OFFICIAL. THIS SCHEDULE IS NOT INTENDED TO BE ALL INCLUSIVE.

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	PERIODIC	CONTINUOUS
INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS:		
END CONNECTIONS - WELDING OR BOLTED	X	
BRIDGING - HORIZONTAL OR DIAGONAL	X	
STANDARD BRIDGING	X	
BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN IBC SECTION 2207.1	X	

CONCRETE CONSTRUCTION

TYPE	PERIODIC	CONTINUOUS
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	X	
REINFORCING BAR WELDING:		
VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	X	
INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	X	
INSPECT ALL OTHER WELDS		X
INSPECT ANCHORS CAST IN CONCRETE	X	
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:		
ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS		X
MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	X	
VERIFY USE OF REQUIRED DESIGN MIX	X	
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE		X
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		X
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	
INSPECT PRESTRESSED CONCRETE FOR:		
APPLICATION OF PRESTRESSING FORCES		X
GROUTING OF BONDED PRESTRESSING TENDONS		X
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	X	
VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	X	
INSPECT FORMWORK SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER FORMED	X	

SOILS

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

CONCRETE MASONRY (LEVEL 2)

SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602. IN CASE OF CONFLICTS BETWEEN THE REQUIREMENTS OF TMS 402 AND 602 AND THE TABLE BELOW, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

TYPE	PERIODIC	CONTINUOUS
PRIOR TO CONSTRUCTION, VERIFY COMPLIANCE WITH APPROVED SUBMITTALS	X	
PRIOR TO CONSTRUCTION, VERIFY f'_m AND f'_{AAC}, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE	X	
DURING CONSTRUCTION, VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE	X	
AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
PROPORTIONS OF SITE-PREPARED MORTAR	X	
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	X	
GRADE, TYPE & SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	X	
PRESTRESSING TECHNIQUE		
PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X(a)	X(a)
SAMPLE PANEL CONSTRUCTION	X	
PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
GROUT SPACE	X	
PLACEMENT PRESTRESSING TENDONS AND ANCHORAGES	X	
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	X	
PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	X	
VERIFY DURING CONSTRUCTION:		
MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	X	
PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	X	
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	X	
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X	
WELDING OF REINFORCEMENT		X
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	X	
APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE		X
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE		X
PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X(a)	X(a)
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X	

(a) CONTINUOUS REQUIRED FOR FIRST 5,000 SF, PERIODIC REQUIRED AFTER FIRST 5,000 SF

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
RANDOLPH L. MUSSER
NUMBER E-23220
REGISTERED PROFESSIONAL ENGINEER
2-15-2022

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	DFW / RM
DRAWN BY:	MCM
DESIGNED BY:	MCM
PROJECT NUMBER:	524-0368-028

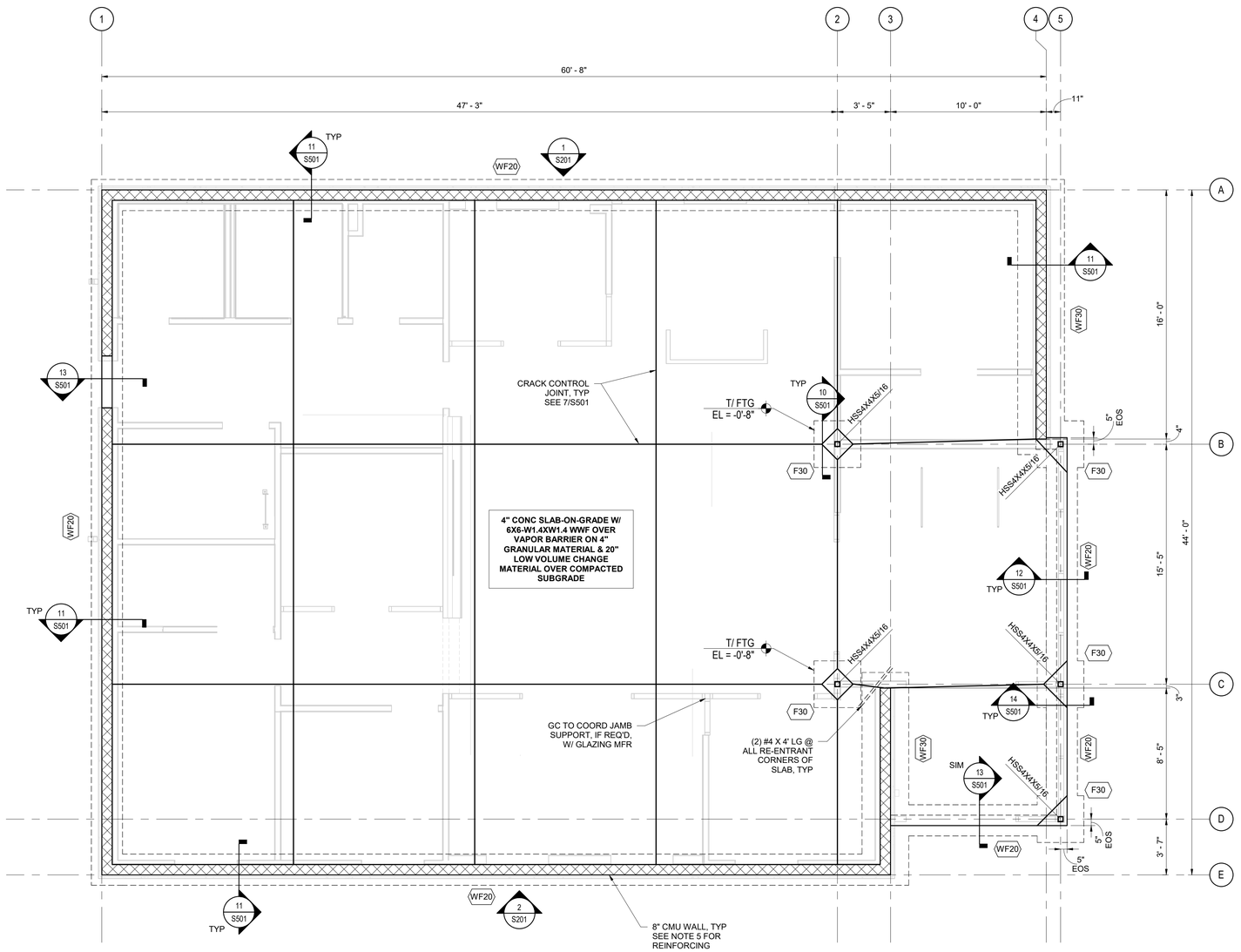
SHEET TITLE:

STATEMENT OF SPECIAL INSPECTIONS

SHEET ID:

S003

PROJECT STATUS:
PERMIT DOCUMENTS



N

1 FOUNDATION AND SLAB PLAN

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

NOTES:
1. ELEVATION 992.00' EQUALS DATUM ELEVATION 0'-0". VERIFY WITH CIVIL.
2. T/SLAB ELEVATION = 0'-0", UNLESS NOTED OTHERWISE.
3. T/FTG ELEVATION = -2'-4", UNLESS NOTED OTHERWISE.
4. EOS DENOTES EDGE OF SLAB.
5. CMU WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 40" OC, UNLESS NOTED OTHERWISE.
6. SEE SHEET S501 FOR TYPICAL CMU DETAILS.
7. SEE 7/S501 FOR TYPICAL SLAB JOINT DETAILS.
8. COORDINATE SLAB JOINTS WITH FLOOR FINISH JOINT LOCATIONS.
9. CONTRACTOR TO VERIFY ALL DIMENSIONS AND OPENING LOCATIONS WITH ARCHITECTURAL DRAWINGS.
10. CONTRACTOR TO COORDINATE FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.

FOOTING SCHEDULE

TYPE	WIDTH X LENGTH	DEPTH	REINFORCING	REMARKS
WF20	2'-0" X CONT	1'-4"	(3) #5 CONT W/ #5 @ 12" OC TRANS, TOP & BOTTOM	HOOK TRANS BOTTOM BARS, EA END
WF30	3'-0" X CONT	1'-4"	(4) #5 CONT W/ #5 @ 12" OC TRANS, TOP & BOTTOM	HOOK TRANS BOTTOM BARS, EA END
F30	3'-0" X 3'-0"	1'-4"	(4) #5 EA WAY, BOTTOM	HOOK BARS EA END

NOTES:
1. EXTEND CONTINUOUS WALL FOOTINGS MINIMUM 1' BEYOND END OF WALL, UNO.
2. PROVIDE CORNER BARS AT FOOTING INTERSECTIONS TO MATCH SIZE AND QUANTITY OF CONTINUOUS REINFORCING.

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WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
RANDOLPH L. MUSSER
NUMBER E-23220
REGISTERED PROFESSIONAL ENGINEER
2-15-2022

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: DFW / RM
DRAWN BY: MCM
DESIGNED BY: MCM
PROJECT NUMBER:
524-0368-028

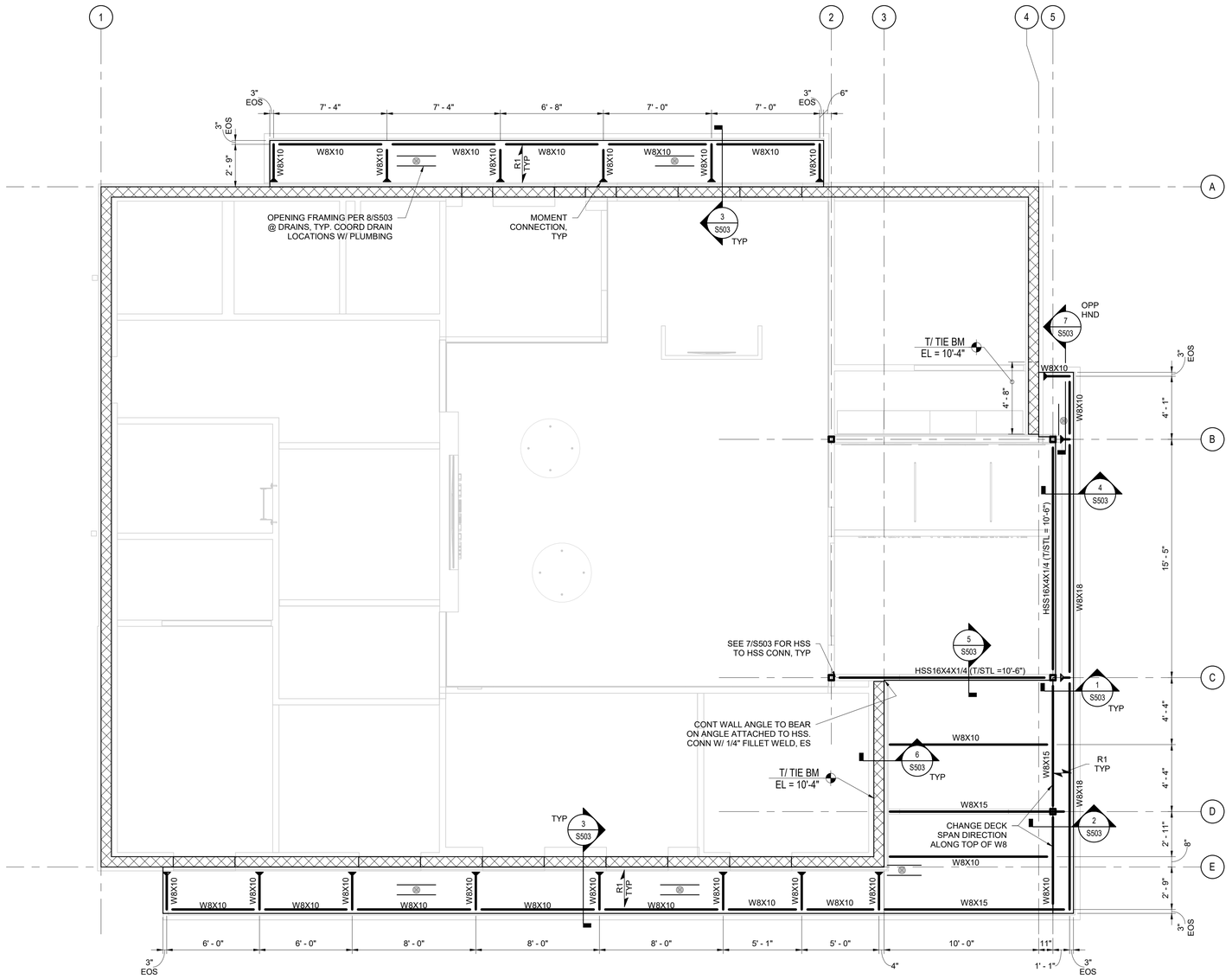
SHEET TITLE:

FOUNDATION AND SLAB PLAN

SHEET ID:

S101

PROJECT STATUS:
PERMIT DOCUMENTS



1 CANOPY FRAMING PLAN

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

NOTES
1. T/ STEEL ELEVATION = 10'-1", UNLESS NOTED OTHERWISE.
2. ALL STEEL BEAM CONNECTIONS SHALL BE PER 1/S502, UNLESS NOTED OTHERWISE.
3. **"R1"** DENOTES ROOF DECK TYPE WITH SPAN DIRECTION SHOWN ON PLAN. SEE NOTES ON S001 FOR DECK INFORMATION.
4. **"EOS"** DENOTES BACK SIDE OF CONTINUOUS STEEL ANGLE SUPPORTING EDGE OF DECK.
5. ▲ DENOTES MOMENT CONNECTION.

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STATE OF MISSOURI
RANDOLPH L. MUSSER
NUMBER E-23220
REGISTERED PROFESSIONAL ENGINEER
12-15-2022

REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY:	DFW / RM
DRAWN BY:	MCM
DESIGNED BY:	MCM

PROJECT NUMBER:
524-0368-028

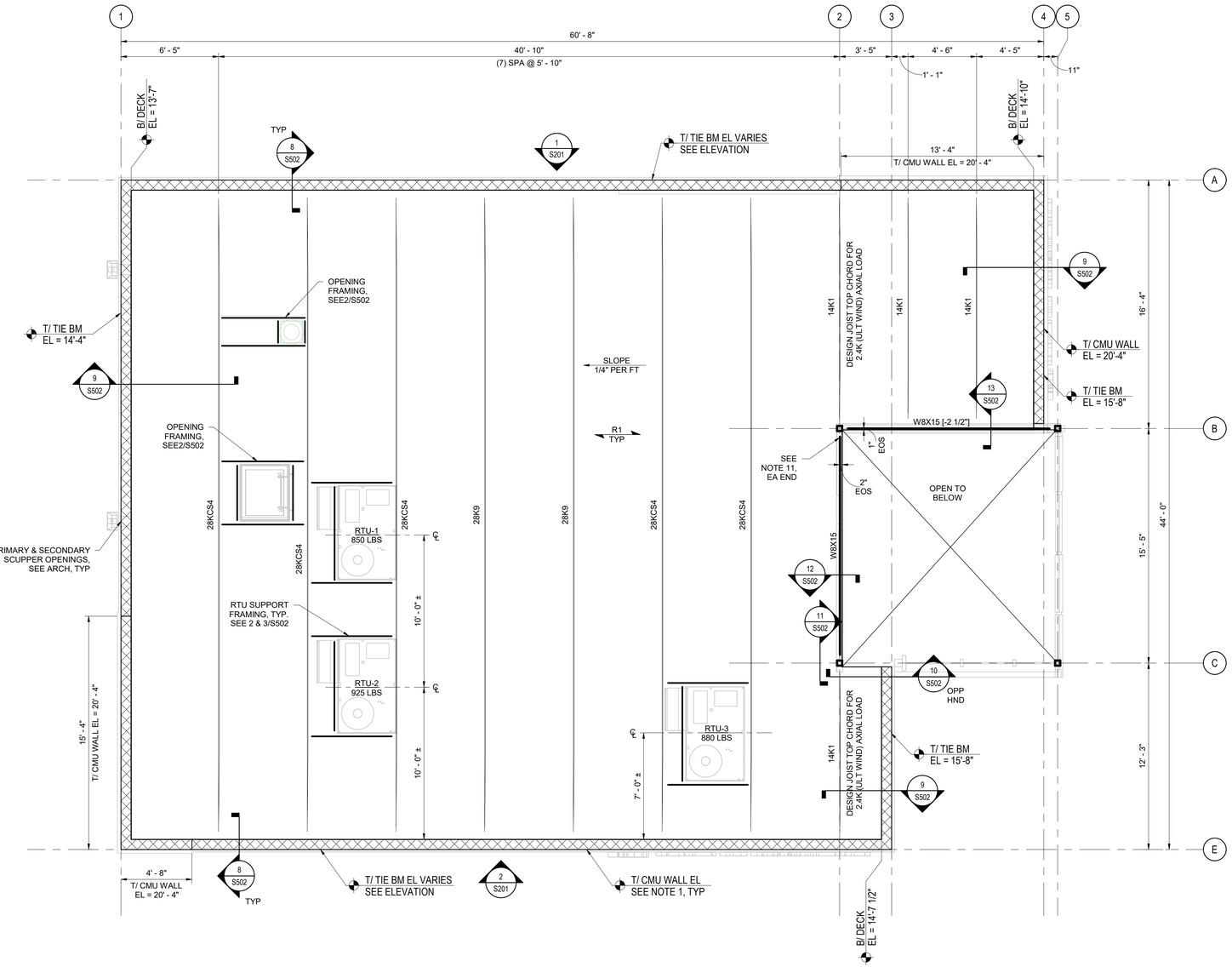
SHEET TITLE:

CANOPY FRAMING PLAN

SHEET ID:

S102

PROJECT STATUS:
PERMIT DOCUMENTS

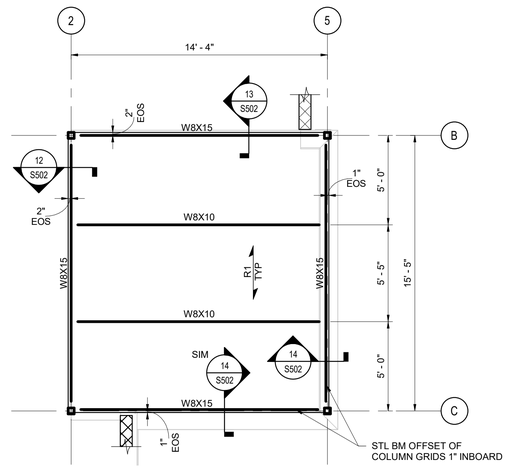


N

1 ROOF FRAMING PLAN

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

NOTES
1. T/ CMU WALL ELEVATION = 19'-0", UNLESS NOTED OTHERWISE.
2. T/ TIE BEAM ELEVATION VARIES. SEE PLAN. PROVIDE CONTINUOUS TIE BEAM AROUND PERIMETER. SEE SECTIONS ON S502.
3. B/ DECK ELEVATION VARIES. SEE PLAN.
4. T/ JOIST ELEVATION = B/ DECK. SEE PLAN
5. T/ STEEL ELEVATION = B/ DECK, UNLESS NOTED OTHERWISE. SEE PLAN.
6. [-X"] INDICATES X" OFFSET BELOW B/ DECK ELEVATION.
7. ALL STEEL BEAM CONNECTIONS SHALL BE PER 1/S502, UNLESS NOTED OTHERWISE.
8. **"R1"** DENOTES ROOF DECK TYPE WITH SPAN DIRECTION SHOWN ON PLAN. SEE NOTES ON S001 FOR DECK INFORMATION.
9. **"EOS"** DENOTES BACK SIDE OF CONTINUOUS STEEL ANGLE SUPPORTING EDGE OF DECK.
10. GC TO COORDINATE FINAL LOCATION OF ALL ROOFTOP OPENINGS AND EQUIPMENT WITH MECH/ARCH AND SUBCONTRACTORS.
11. WHERE NOTED ON PLAN, PROVIDE ALL STANDARD HOLES IN BEAM TO COLUMN CONNECTION - NO SHORT SLOTTED HOLES PERMITTED.



N

2 ENTRY HIGH ROOF FRAMING PLAN

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

NOTES
1. T/ STEEL ELEVATION = 17'-3".
2. ALL STEEL BEAM CONNECTIONS SHALL BE PER 1/S502, UNLESS NOTED OTHERWISE.
3. **"R1"** DENOTES ROOF DECK TYPE WITH SPAN DIRECTION SHOWN ON PLAN. SEE NOTES ON S001 FOR DECK INFORMATION.
4. **"EOS"** DENOTES BACK SIDE OF CONTINUOUS STEEL ANGLE SUPPORTING EDGE OF DECK.

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WEST PRYOR DEVELOPMENT, LOT 9A
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LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
RANDOLPH L. MUSSER
NUMBER E-23220
REGISTERED PROFESSIONAL ENGINEER
2-15-2022

REVISIONS

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PROJECT NUMBER:	
524-0368-028	

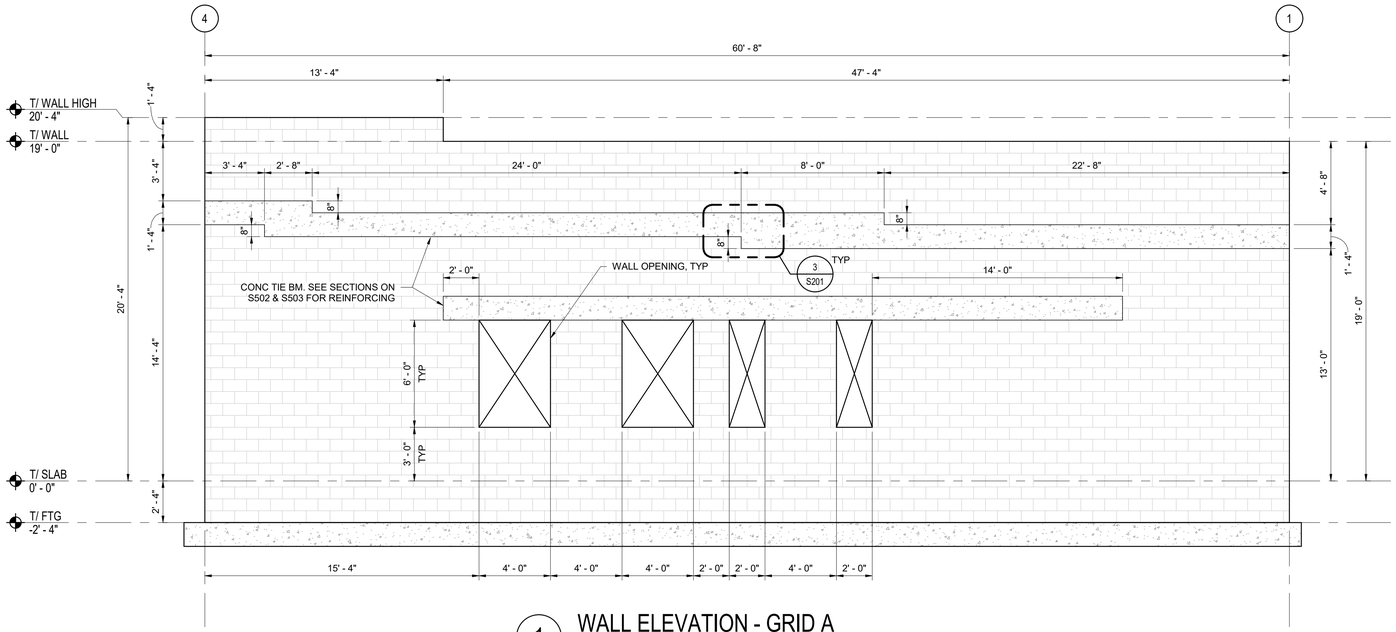
SHEET TITLE:

ROOF FRAMING PLAN

SHEET ID:

S103

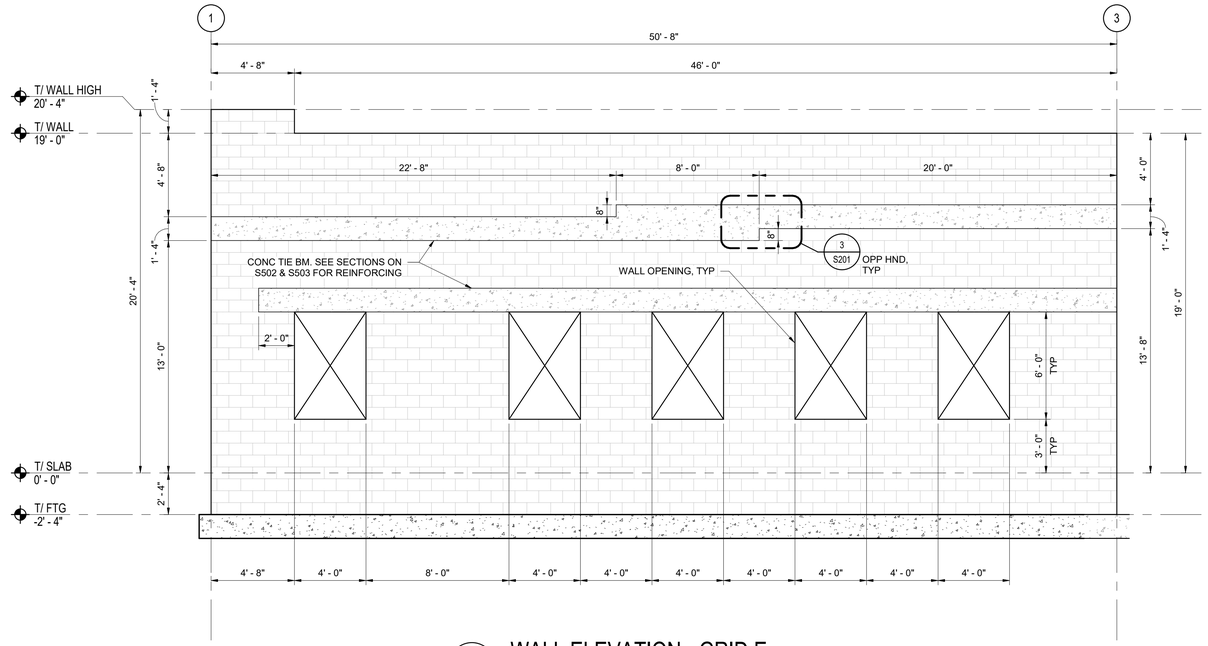
PROJECT STATUS:
PERMIT DOCUMENTS



1 WALL ELEVATION - GRID A

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

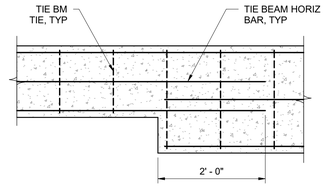
NOTES:
1. VERIFY OPENING LOCATIONS & DIMENSIONS WITH ARCHITECTURAL.
2. CANOPIES NOT SHOWN FOR CLARITY. SEE S102 AND DETAILS ON S503.



2 WALL ELEVATION - GRID E

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

NOTES:
1. VERIFY OPENING LOCATIONS & DIMENSIONS WITH ARCHITECTURAL.
2. CANOPIES NOT SHOWN FOR CLARITY. SEE S102 AND DETAILS ON S503.



3 TIE BM STEP DETAIL

SCALE: NTS

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PROJECT ADDRESS:
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WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
RANDOLPH L. MUSSER
NUMBER E-23220
REGISTERED PROFESSIONAL ENGINEER
2-15-2022

REVISIONS

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PROJECT NUMBER:	524-0368-028

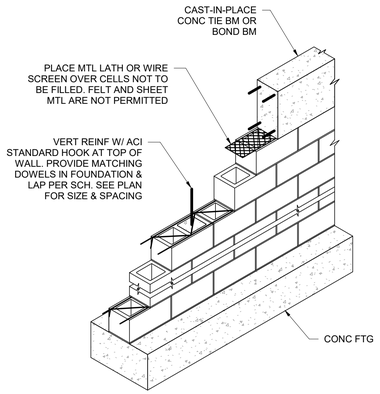
SHEET TITLE:

WALL ELEVATIONS

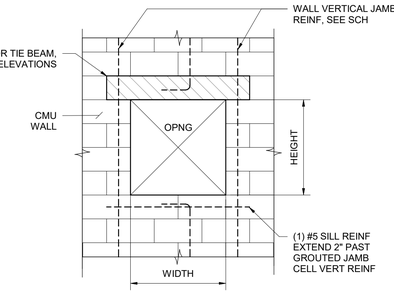
SHEET ID:

S201

PROJECT STATUS:
PERMIT DOCUMENTS

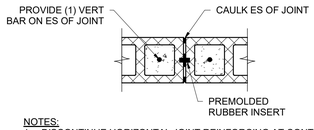


1 TYP CMU WALL CONSTRUCTION
SCALE: NTS



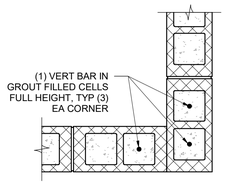
NOTES:
1. DETAILS ARE TYPICAL AT ALL WINDOW OPENINGS, DUCT PENETRATIONS & UTILITY CHASES, UNLESS NOTED OTHERWISE.
2. COORDINATE OPENING LOCATIONS WITH ARCH.

2 TYP CMU WALL OPNG REINF
SCALE: NTS

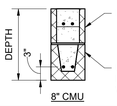


NOTES:
1. DISCONTINUE HORIZONTAL JOINT REINFORCING AT CONTROL JOINT.
2. SEE GENERAL NOTES FOR SPACING REQUIREMENTS.

4 TYP CONTROL JOINT
SCALE: NTS



3 TYP CMU CORNER DETAIL
SCALE: NTS



CMU LINTEL SCHEDULE

LINTEL SPAN	DEPTH	REINFORCING	REMARKS
4'-0" MAX	8"	(1) #5	

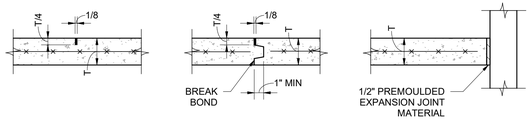
NOTES:
1. PROVIDE 8" BEARING EACH SIDE OF OPENING, UNLESS NOTED OTHERWISE.
2. ALL LINTELS SHALL BEAR ON GROUTED SOLID CMU.
3. VERIFY OPENING LOCATIONS WITH ARCHITECTURE.
4. VERTICAL JAMB REINFORCEMENT EXTENDS THROUGH CMU LINTELS AT BEARING ENDS.
5. ALL REINFORCEMENT SHALL EXTEND A MINIMUM OF 8" OVER SUPPORTS AT EACH END.

5 TYP CMU LINTEL SCHEDULE
SCALE: NTS

JAMB SCHEDULE

OPENING SIZE	JAMB LENGTH	# BARS PER CELL
UP TO 4'-0"	8"	(1) #5

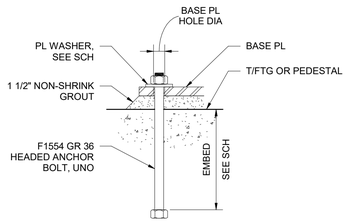
6 CMU JAMB SCHEDULE
SCALE: NTS



CRACK CONTROL JOINT (CCJ) | **CONSTRUCTION JOINT (CJ)** | **EXPANSION JOINT AT WALL (EJ)**

NOTES:
1. CCJ SHALL BE PRE-FORMED OR SAWED. IF SAWED, SAWING MUST TAKE PLACE WITHIN 12 HRS OF SLAB PLACEMENT.
2. USE CONSTRUCTION JOINT INSTEAD OF CRACK CONTROL JOINT WHEREVER CONSTRUCTION IS STOPPED OR WHERE CALLED FOR ON PLAN.

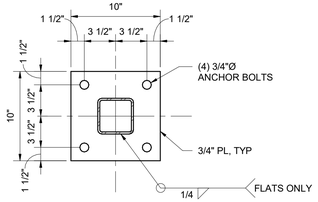
7 TYP CONC SLAB-ON-GRADE JOINTS
SCALE: NTS



ROD DIA	EMBED UNO	BASE PL HOLE DIA	PLATE WASHER
3/4"	1'-0"	1 5/16"	PL1/4x2"x2"

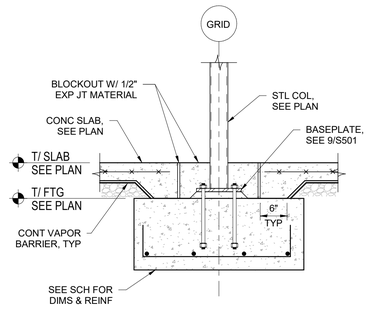
NOTES:
1. PROVIDE STANDARD HOLE IN PLATE WASHER.

8 TYP ANCHOR BOLT DETAIL
SCALE: NTS

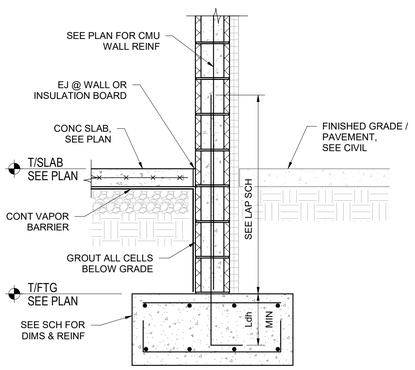


HSS4X4

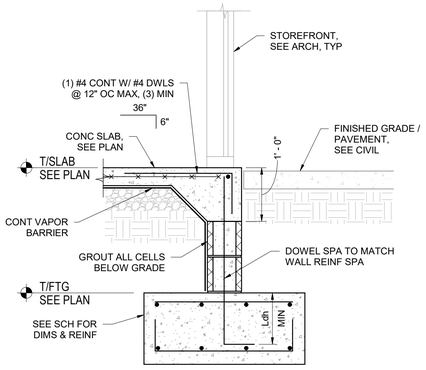
9 BASEPLATE DETAIL
SCALE: NTS



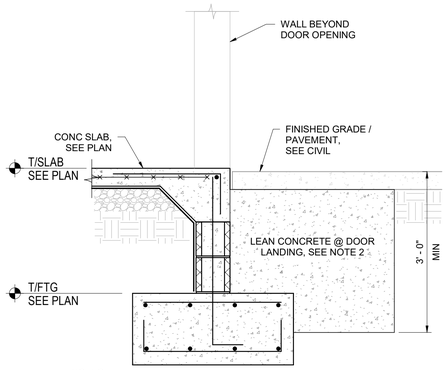
10 SECTION
SCALE: NTS



11 SECTION
SCALE: NTS

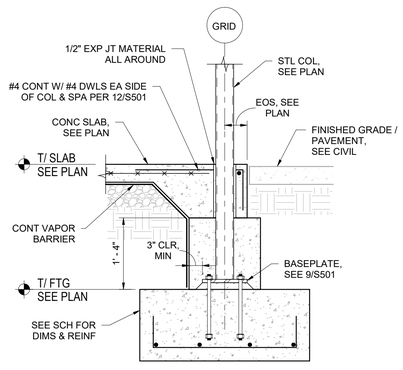


12 SECTION
SCALE: NTS



NOTES:
1. SEE 12/S501 FOR DETAILS AND INFORMATION NOT SHOWN.
2. PROVIDE LEAN CONCRETE FOR FROST HEAVE PREVENTION AT DOOR. EXTEND 6" PAST DOOR SWING IN ALL DIRECTIONS.

13 SECTION
SCALE: NTS



14 SECTION
SCALE: NTS

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PNC

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LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI — RANDOLPH L. MUSSER — NUMBER E-23220 — REGISTERED PROFESSIONAL ENGINEER
2-15-2022

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: DFW / RM
DRAWN BY: MCM
DESIGNED BY: MCM
PROJECT NUMBER: 524-0368-028

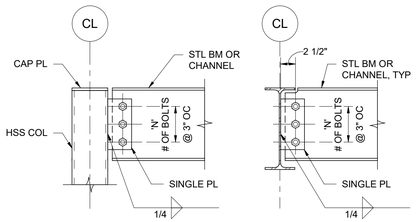
SHEET TITLE:

FOUNDATION SECTIONS AND DETAILS

SHEET ID:

S501

PROJECT STATUS:
PERMIT DOCUMENTS

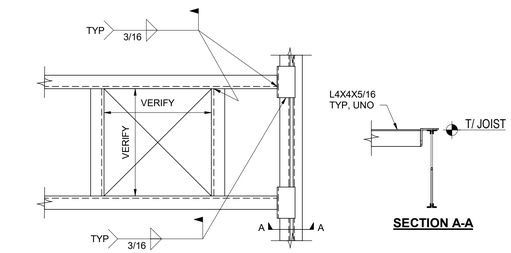


BM TO HSS COL SECTION **BM TO BM SECTION**

'N'	SIZE	LENGTH	BEAM SIZE
3	PL 3/8" x 4"	8 1/2"	C12, W12
2	PL 3/8" x 4"	5 1/2"	C8, C10, W8, W10

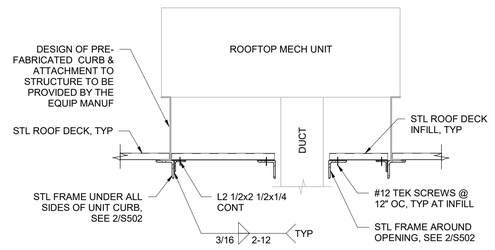
NOTES:
1. ALL BOLTS SHALL BE 3/4"Ø A325 N BEARING TYPE, UNLESS NOTED OTHERWISE.
2. STD OR SSLT HOLES ARE PERMITTED IN PLATE, UNLESS NOTED OTHERWISE ON PLAN. BEAM SHALL HAVE STD HOLES.
3. WIDE FLANGE BEAM TO HSS BEAM CONNECTION SIMILAR.

1 TYP BEAM CONNECTIONS
SCALE: NTS

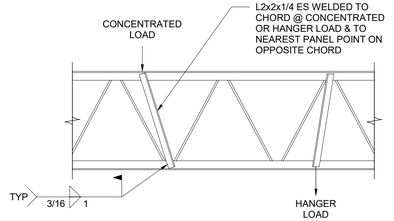


NOTES:
1. PROVIDE FRAMING AROUND ALL ROOF OPENINGS GREATER THAN 6'x6" OR WHERE 2 OR MORE ROOF CORRUGATIONS ARE INTERRUPTED.
2. VERIFY DIMENSIONS WITH EQUIPMENT PURCHASED BEFORE FABRICATION OF SUPPORT FRAMING.

2 TYP ROOF OPENING FRAMING
SCALE: NTS



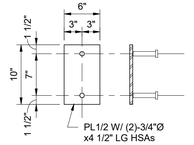
3 TYP MECH UNIT CURB DETAIL
SCALE: NTS



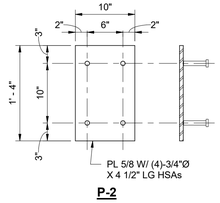
JOIST REINFORCING FOR CONCENTRATED LOADS NOT FALLING AT PANEL POINTS

NOTES:
1. PROVIDE AT ALL CONCENTRATED AND HANGER LOADS GREATER THAN 100 LBS ON ROOF.

4 TYP JOIST REINF
SCALE: NTS

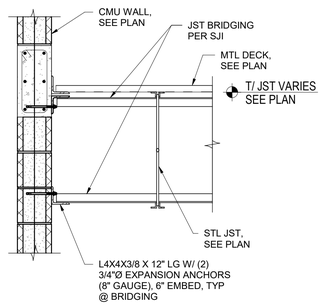


P-1

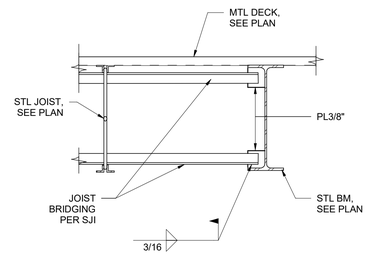


P-2

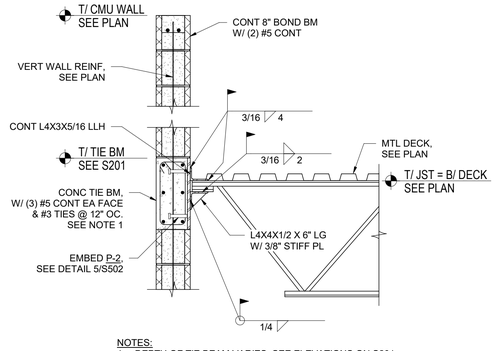
5 EMBED PLATE DETAILS
SCALE: NTS



6 TYP JST BRIDGING @ CMU
SCALE: NTS

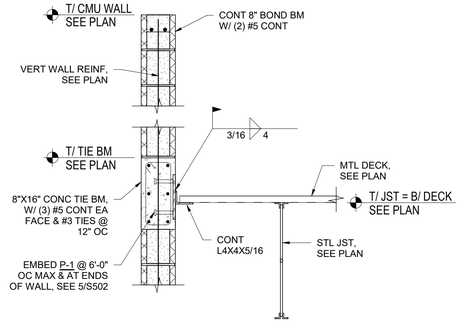


7 TYP JST BRIDGING @ BM
SCALE: NTS



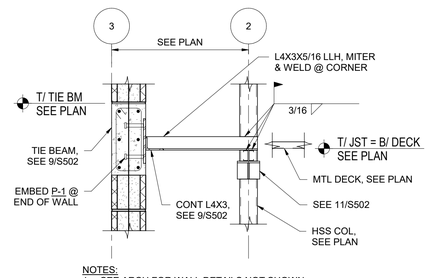
NOTES:
1. DEPTH OF TIE BEAM VARIES. SEE ELEVATIONS ON S201.
2. SEE ARCH FOR WALL DETAILS NOT SHOWN.

8 SECTION
SCALE: NTS



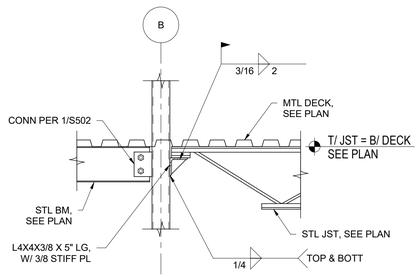
NOTES:
1. SEE ARCH FOR WALL DETAILS NOT SHOWN.

9 SECTION
SCALE: NTS

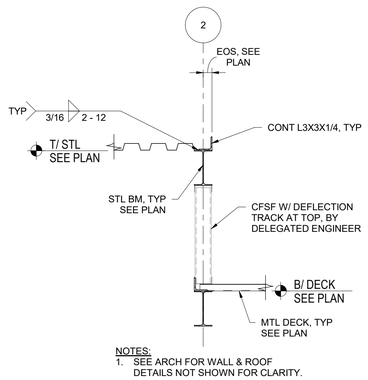


NOTES:
1. SEE ARCH FOR WALL DETAILS NOT SHOWN.

10 SECTION
SCALE: NTS

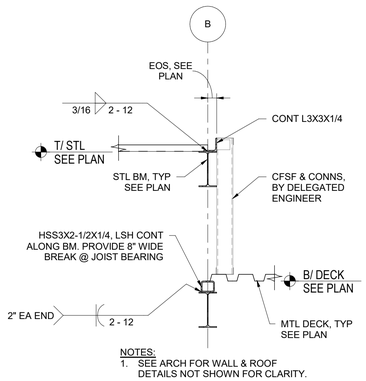


11 SECTION
SCALE: NTS



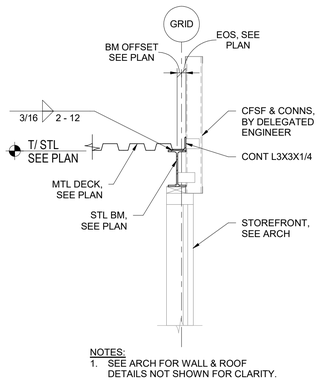
NOTES:
1. SEE ARCH FOR WALL & ROOF DETAILS NOT SHOWN FOR CLARITY.

12 SECTION
SCALE: NTS



NOTES:
1. SEE ARCH FOR WALL & ROOF DETAILS NOT SHOWN FOR CLARITY.

13 SECTION
SCALE: NTS



NOTES:
1. SEE ARCH FOR WALL & ROOF DETAILS NOT SHOWN FOR CLARITY.

14 SECTION
SCALE: NTS

RS&H, Inc.
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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
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DATE ISSUED:	02/15/2022
REVIEWED BY:	DFW / RM
DRAWN BY:	MCM
DESIGNED BY:	MCM
PROJECT NUMBER:	524-0368-028

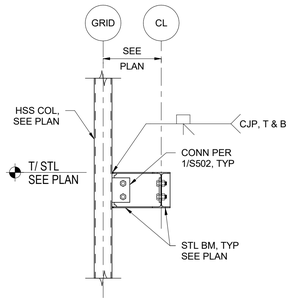
SHEET TITLE:

FRAMING SECTIONS AND DETAILS

SHEET ID:

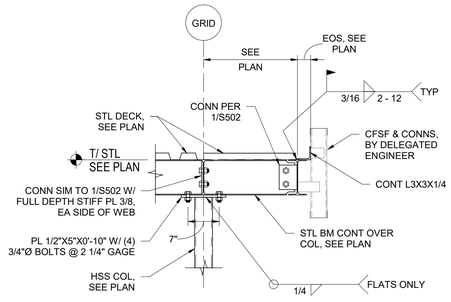
S502

PROJECT STATUS:
PERMIT DOCUMENTS



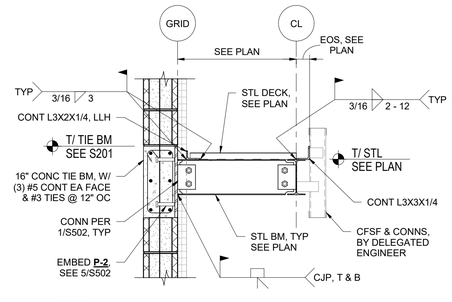
NOTES:
1. HSS BEAMS NOT SHOWN FOR CLARITY.
2. METAL DECK, CONT ANGLES, CFSF, & STOREFRONT NOT SHOWN FOR CLARITY.

1 SECTION
SCALE: NTS



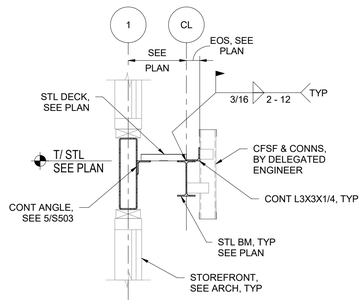
NOTES:
1. SEE ARCH FOR WALL, ROOF, SOFFIT & STOREFRONT DETAILS NOT SHOWN FOR CLARITY.

2 SECTION
SCALE: NTS



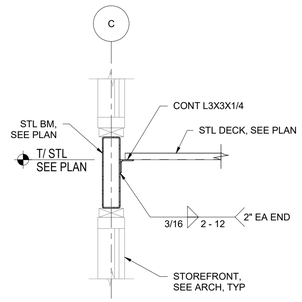
NOTES:
1. SEE ARCH FOR WALL, ROOF & SOFFIT DETAILS NOT SHOWN FOR CLARITY.
2. SLEEVES OR CORES ARE PERMITTED FOR 2"Ø ROOF DRAIN PIPE THROUGH CONCRETE TIE BEAM. BOTTOM OF SLEEVE OR CORE TO BE MINIMUM 3" FROM BOTTOM OF TIE BEAM.

3 SECTION
SCALE: NTS



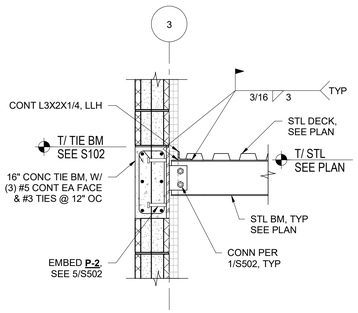
NOTES:
1. SEE ARCH FOR WALL, ROOF & SOFFIT DETAILS NOT SHOWN FOR CLARITY.

4 SECTION
SCALE: NTS



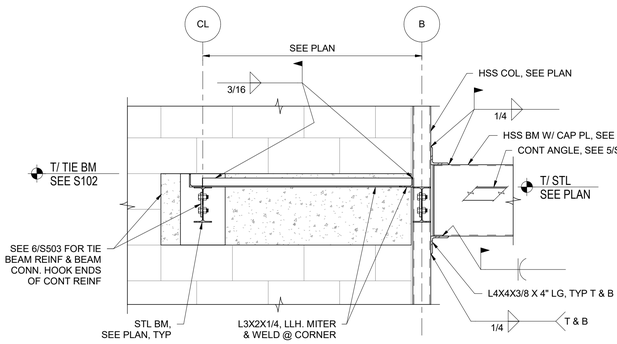
NOTES:
1. SEE ARCH FOR WALL, ROOF & SOFFIT DETAILS NOT SHOWN FOR CLARITY.

5 SECTION
SCALE: NTS



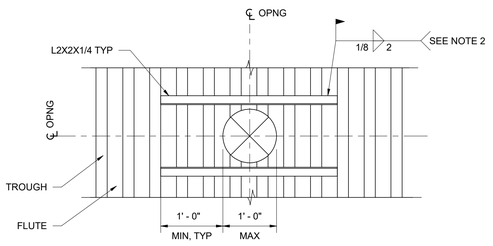
NOTES:
1. SEE ARCH FOR WALL, ROOF & SOFFIT DETAILS NOT SHOWN FOR CLARITY.

6 SECTION
SCALE: NTS



NOTES:
1. METAL DECK, CFSF, & STOREFRONT NOT SHOWN FOR CLARITY.

7 SECTION
SCALE: NTS



NOTES:
1. WELD ANGLES TO A MINIMUM OF TWO FULL DECK FLUTES EACH END OF EACH ANGLE.
2. NO DECK REINFORCING REQ'D WHEN OPENING IS LESS THAN 6" WIDE
3. THIS DETAIL SHALL NOT APPY FOR MULTIPLE OPENINGS SPACED LESS THE 6 FEET OC UNLESS SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER.
4. THIS DETAIL SHALL NOT BE USED TO SUPPORT MECH EQUIPMENT.

8 TYP STL DECK OPENINGS SMALLER THAN 12"
SCALE: NTS

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RANDOLPH L. MUSSER
NUMBER E-23220
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REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: DFW / RM
DRAWN BY: MCM
DESIGNED BY: MCM
PROJECT NUMBER: 524-0368-028

SHEET TITLE:
CANOPY SECTIONS AND DETAILS

SHEET ID:
S503

PROJECT STATUS:
PERMIT DOCUMENTS

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH THE CURRENT INTERNATIONAL BUILDING, MECHANICAL, AND PLUMBING CODES, AND APPLICABLE NFPA CODES.
2. COORDINATE MECHANICAL WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID INTERFERENCE AND MAINTAIN CLEARANCES. COORDINATE WITH BUILDING OWNER'S ROOFING CONTRACTOR FOR ROOFING IN NEW CURBS, VENTS, AND OTHER ROOF PENETRATIONS OR ROOF-MOUNTED EQUIPMENT.
3. FURNISH APPROVED OPERATING INSTRUCTIONS FOR ALL NEW EQUIPMENT. THE OPERATING INSTRUCTIONS SHALL INCLUDE WIRING DIAGRAMS, CONTROL SCHEMATICS, AND MAINTENANCE REQUIREMENTS FOR EACH SYSTEM.
4. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, FURNISH PRINTED COPIES OF THE RECOMMENDATIONS PRIOR TO INSTALLATION.
5. ALL EQUIPMENT AND MATERIALS PROVIDED FOR THIS PROJECT SHALL BE NEW AND FREE FROM DEFECTS.
6. PROVIDE PERMANENT IDENTIFICATION PLATES FOR ALL EQUIPMENT AND PLASTIC PIPE MARKERS ON ALL PIPING SYSTEMS. PROVIDE VALVE TAGS FOR ALL VALVES. DUCTWORK JACKETS AND SIMILAR FINISHES MAY BE IDENTIFIED WITH STENCIL PAINTING.
7. PROVIDE SLEEVES FOR ALL DUCTWORK AND PIPING PENETRATIONS. PLACE SLEEVES PRIOR TO COMPLETION OF NEW CONSTRUCTION WHERE POSSIBLE.
8. ALL PENETRATIONS AND OPENINGS IN FIRE-RATED WALLS OR OTHER CONSTRUCTION SHALL BE CLOSED AND SEALED WITH AN APPROVED FIRESTOPPING MATERIAL IN ACCORDANCE WITH UL FIRE RESISTANCE DIRECTORY DETAILS AND PRODUCT MANUFACTURER'S INSTRUCTIONS.
9. SELECT AND INSTALL PIPE SUPPORTS AND ANCHORS IN ACCORDANCE WITH MSS SP 58 AND SP 69. PROVIDE SINGLE OR MULTIPLE HANGERS AS APPROPRIATE. PROVIDE HANGERS WITH ADJUSTABLE MEANS FOR CONTROLLING THE LEVEL OR SLOPE OF PIPES.
10. PROVIDE ELASTOMERIC PADS BENEATH ALL PAD MOUNTED EQUIPMENT WITH ROTATING PARTS, INCLUDING CONDENSING UNITS. PADS SHALL BE 5/16-INCH MINIMUM THICKNESS WAFFLED OR RIBBED NEOPRENE. PROVIDE 3/8-INCH THICK NEOPRENE AND ABS STRIPS (KELLET LP-13 OR EQUAL) FOR CURB-MOUNTED ROOFTOP UNITS.
11. ROOFTOP UNITS, AIR HANDLERS, AND CONDENSING UNITS SHALL HAVE INTERNAL VIBRATION ISOLATION FOR FANS AND COMPRESSORS, UTILIZING OPEN-SPRING OR NEOPRENE ISOLATORS, FREESTANDING AND LATERALLY STABLE WITH NO HOUSING.
12. ALL PIPE INSULATION WITHIN THE BUILDING SHALL BE ASTM C547, CLASS 1 PREFORMED FIBERGLASS PIPE INSULATION WITH ALL-SERVICE VAPOR-BARRIER JACKET, 1/2-INCH THICK FOR PIPE SIZES UP TO AND INCLUDING 1-1/4 INCHES. MAXIMUM FLAME-SPREAD/SMOKE-DEVELOPED RATING SHALL BE 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84. ASTM C534, TYPE I FLEXIBLE UNICELLULAR INSULATION, 3/4-INCH THICK, MAY BE USED IN EXTERIOR LOCATIONS ONLY. PROVIDE A UV-RESISTANT COATING OR JACKET ON ALL EXTERIOR INSULATION.
13. INSULATE ALL DUCTWORK, PLENUMS, FAN CABINETS AND EQUIPMENT CASINGS EXCLUDING PRE-INSULATED FLEXIBLE DUCTS AND PRE-INSULATED EQUIPMENT. INSULATE THE BACKS OF SUPPLY AIR DIFFUSERS AND GRILLES.
14. INSULATION FOR DUCTS AND DIFFUSERS SHALL BE 2-INCH THICK ASTM C553, TYPE I, CLASS B-4, 1-1/2 LB/CU FT DENSITY FLEXIBLE FIBERGLASS BLANKET WITH FSK JACKET. ALL SEAMS, JOINTS AND PUNCTURES IN EXTERNAL INSULATION JACKET SHALL BE SEALED WITH GLASS-REINFORCED FABRIC AND VAPOR-BARRIER MASTIC.
15. CONDENSATE DRAIN PIPING FOR HVAC EQUIPMENT SHALL BE TYPE DWV COPPER TUBING, ASTM B306, DRAWN TEMPER, WITH ASME B16.29 WROUGHT-COPPER, SOLDER-JOINT, DWV DRAINAGE FITTINGS.
16. REFRIGERANT PIPING FOR HVAC SYSTEMS SHALL BE SEAMLESS COPPER TUBING, ASTM B280, TYPE ACR, HARD-DRAWN, STRAIGHT LENGTHS AND SOFT-ANNEALED COILS. FITTINGS SHALL BE WROUGHT-COPPER, ANSI B16.22, STREAMLINED PATTERN. BRAZING FILLER METAL SHALL BE AWS A5.8, CLASSIFICATION BAG-1 (SILVER). INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ASHRAE STANDARD 15. ARRANGE PIPING TO ALLOW NORMAL INSPECTION AND SERVICING OF COMPRESSOR AND OTHER EQUIPMENT. INSTALL VALVES AND SPECIALTIES IN ACCESSIBLE LOCATIONS. PROVIDE LIQUID AND SUCTION SERVICE PORTS AND ISOLATION VALVES FOR EACH CIRCUIT. INSPECT, TEST, AND PERFORM CORRECTIVE ACTION OF REFRIGERANT PIPING IN ACCORDANCE WITH ASME CODE B31.5, CHAPTER VI. REPAIR LEAKING JOINTS USING NEW MATERIALS, AND RETEST FOR LEAKS. THOROUGHLY DRY AND EVACUATE PIPING SYSTEMS BEFORE CHARGING.
17. HVAC EQUIPMENT SHALL BE UL APPROVED, EQUAL TO THAT SCHEDULED ON THE DRAWINGS. ALL EQUIPMENT SHALL BE FACTORY TESTED. SYSTEMS SHALL COMPLY WITH ARI STANDARD 210. CONDENSING UNITS SHALL BE FACTORY-ASSEMBLED, PRE-PIPED AND PRE-WIRED UNITS SUITABLE FOR OUTDOOR USE CONSISTING OF COATED CALVANIZED STEEL CABINET, HERMETIC SCROLL COMPRESSOR(S), COPPER-TUBE CONDENSING COIL, ALUMINUM PROPELLAR FAN(S), INTEGRAL SUBCOOLING CIRCUIT(S), REFRIGERANT PIPING, REFRIGERATION SPECIALTIES, AND CONTROLS. PROVIDE FULL 5-YEAR PARTS AND LABOR WARRANTY ON AIR-CONDITIONING COMPRESSORS. INSTALLER SHALL ANCHOR CONDENSING-UNIT TO CONCRETE PAD.
18. ALL EQUIPMENT SHALL HAVE DISCONNECTS AND OVERCURRENT PROTECTION AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. COORDINATE WITH WORK OF DIVISION 26.
19. ALL DUCTWORK SHALL BE GALVANIZED STEEL, CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE. FLEXIBLE DUCTS AND DUCT CONNECTORS SHALL BE UL-181, CLASS 1 WITH FLAME-SPREAD/SMOKE-DEVELOPED RATINGS OF 25/50 OR LESS, FABRICATED WITH METAL HELIX REINFORCEMENT AND MINIMUM R-6 INSULATION BETWEEN FIRE-RETARDANT INNER LINER AND GLASS TAPE, AND NYLON HANGING CORD. SECURE FLEXIBLE DUCT TO COLLAR OR SLEEVE WITH DUCT SEALER, 1/2-INCH CLAMPS AND SHEET METAL SCREWS. SECURE INSULATION COVER WITH GLASS FABRIC AND MASTIC. PROVIDE RIGID ROUND DUCTS WHERE RUNOUT LENGTHS EXCEED 3 FEET. PROVIDE LISTED GAS VENT FOR WATER HEATER, INCLUDING ROOF THIMBLE AND CAP.
20. MANUAL VOLUME-CONTROL DAMPERS SHALL HAVE MINIMUM 16-GAUGE GALVANIZED-STEEL FRAMES AND MINIMUM 20-GAUGE FORMED BLADES. GALVANIZED STEEL AXLE SHALL HAVE BEARINGS AT BOTH ENDS AND SHAFT SHALL EXTEND SO THAT OPERATOR CLEARS EXTERNAL INSULATION. PROVIDE INDICATING QUADRANT AND LOCKING DEVICE. USE SINGLE-BLADE DAMPERS FOR WIDTHS UP TO 8 INCHES AND OPPOSED-BLADE DESIGN FOR SIZES ABOVE 8 INCHES.
21. FABRICATE TURNING VANES ACCORDING TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS, FIGURES 2-2 THROUGH 2-7.
22. FLEXIBLE DUCT CONNECTORS SHALL BE FABRICATED OF FLAME-RETARDED OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL STANDARD 181, CLASS 1, WITH METAL-EDGED CONNECTORS. PROVIDE FLEXIBLE DUCT CONNECTORS AT CONNECTION OF NEW DUCTWORK TO FAN TERMAINL UNITS.
23. AIR DEVICES SHALL BE EQUAL TO PRODUCTS SCHEDULED. TEST AND RATE AIR OUTLETS AND INLETS IN ACCORDANCE WITH ARI 650 "STANDARD FOR AIR OUTLETS AND INLETS". MOUNTINGS SHALL BE LAY-IN TYPE FOR ACOUSTICAL PANEL CEILINGS AND SURFACE-MOUNT WITH 1-1/4 INCH BORDER FOR GYPSUM-BOARD CEILINGS (REFER TO REFLECTED CEILING PLANS) OR WALLS. LOUVERS SHALL BE ALUMINUM EXTRUSIONS, ASTM B 221, ALLOY 6063-T52, WITH INDICATED AIRFLOW AND ZERO WATER PENETRATION AT 700 FEET PER MINUTE. PROVIDE LOUVERS WITH FRAME AND SILL STYLES THAT ARE COMPATIBLE WITH ADJACENT SUBSTRATE AND MANUFACTURED TO FIT INTO WITH ACCURATE FIT AND ADEQUATE SUPPORT. PROVIDE 1/4-INCH SQUARE MESH ANODIZED ALUMINUM WIRE SCREENS MOUNTED IN REMOVABLE EXTRUDED ALUMINUM FRAMES.
24. PROVIDE TEST AND BALANCE OF ALL HVAC SYSTEMS BY AN INDEPENDENT TEST AND BALANCE FIRM, WHO IS NEBB OR AABC CERTIFIED WITH A MINIMUM OF 5 YEARS EXPERIENCE. TESTING, ADJUSTING AND BALANCING SHALL CONFORM TO ASHRAE, ANSI AND EITHER NEBB "PRODEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OR ENVIRONMENTAL SYSTEMS" OR AABC MN-1 "NATIONAL STANDARDS", AS APPLICABLE TO MECHANICAL AIR DISTRIBUTION SYSTEMS, ASSOCIATED EQUIPMENT AND APPARATUS.
25. MOUNT THERMOSTAT AT 4'-0" AFF ℄.

TYPICAL DRAWING SYMBOLS ALL MECHANICAL DRAWINGS

SYMBOL	DESCRIPTION
S1 200 8"Ø — DIFFUSER MARK, AIR QUANTITY (CFM), NECK SIZE	AIR DEVICE DESIGNATION
	SUPPLY GRILLE
	RETURN GRILLE
	EXHAUST GRILLE
	SUPPLY AIR ELBOW DOWN
	SUPPLY AIR ELBOW UP
	RETURN AIR AIR ELBOW DOWN
	RETURN AIR AIR ELBOW UP
	EXHAUST AIR ELBOW DOWN
	EXHAUST AIR ELBOW UP
	MANUAL VOLUME DAMPER
FD	FIRE DAMPER
DN	ROUND DUCT OFF-SET UP (UP) OR (DN)
UP	RECTANGULAR DUCT OFF-SET UP (UP) OR (DN)
	RECTANGULAR TO ROUND TRANSITION
	DUCT SIZE TRANSITION
24"Ø	LOW AND MEDIUM VELOCITY ROUND DUCT SIZE
24"X12"	LOW AND MEDIUM VELOCITY RECTANGULAR DUCT SIZE FIRST NUMBER INDICATES SIZE FOR SIDE SHOWN. SIZES INDICATED ARE FREE AREA DIMENSIONS.
	TEE WITH SINGLE THICKNESS AIRFOIL TYPE TURNING VANES
	TEE, BRANCH TAKE-OFF (RECTANGULAR TO RECTANGULAR) (RETURN & EXHAUST ONLY)
	45° RECTANGULAR BRANCH TAKE-OFF TO DIFFUSER (TAP OUT OF BOTTOM OF BRANCH)
	90° ELBOW WITH SINGLE THICKNESS TYPE TURNING VANES
	45° ELBOW WITH SINGLE THICKNESS TYPE TURNING VANES
	FLEXIBLE DUCT & DIFFUSER
R	DUCT RISE (R) OR DROP (D) IN DIRECTION OF AIR FLOW (SINGLE LINE & DOUBLE LINE SYMBOLS)

AHU-1 — EQUIPMENT MARK NO. SEE EQUIPMENT SCHEDULES

CONNECT TO EXISTING

DEMO LIMIT

2 — MECHANICAL KEYED NOTE

A / M401 — LETTERS FOR DIAGRAMS & SECTIONS. NUMBERS FOR DETAILS & FLOOR PLANS; SHEET ON WHICH SECTION OR DETAIL IS ACTUALLY DETAILED; SECTION & DETAIL SYMBOL

MECHANICAL SYSTEMS ABBREVIATIONS

NOTE: ALL ABBREVIATIONS ARE NOT NECESSARILY USED ON THE DRAWINGS

A	AMPS, AMPERE	HORIZ	HORIZONTAL
ABV	ABOVE	HP	HORSEPOWER
A/C	AIR CONDITIONER	HTG	HEATING
ADJ	ADJACENT	HVAC	HEATING, VENTILATION, AND A/C
AFF	ABOVE FINISHED FLOOR	HW	HOT WATER (DOMESTIC)
AFG	ABOVE FINISHED GRADE	HWR	HOT WATER RETURN
AHU	AIR HANDLING UNIT	HWS	HOT WATER SUPPLY
AMB	AMBIENT	HZ	HERTZ
AUX	AUXILIARY	IN	INCHES
BD	BACKDRAFT DAMPER	IN WC	INCHES WATER COLUMN
BLDG	BUILDING	KW	KILOWATT
BHP	BRAKE HORSEPOWER	L	LENGTH
BTU	BRITISH THERMAL UNIT	LAT	LEAVING AIR TEMPERATURE
BTUH	BRITISH THERMAL UNIT PER HOUR	LAT	LATENT (BTU)
C/C	COOLING COIL	LBS	POUNDS
CD	CONDENSATE DRAIN	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MECH	MECHANICAL
CHWR	CHILLED WATER RETURN	MIN	MINIMUM
CHWS	CHILLED WATER SUPPLY	MISC	MISCELLANEOUS
CLG	CEILING	MTG	MOUNTING
CO	CLEAN OUT	MTR	MOTOR
COND	CONDITION	MVD	MANUAL VOLUME DAMPER
CONST	CONSTRUCTION	N/A	NOT APPLICABLE
CONT	CONTINUOUS	NEC	NATIONAL ELECTRIC CODE
COP	COEFFICIENT OF PERFORMANCE	NFPA	NATIONAL FIR PROTECTION ASSOCIATION
CT	COOLING TOWER	NIC	NOT IN CONTRACT
CU	CONDENSING UNIT	NTS	NOT TO SCALE
CW	COLD WATER (DOMESTIC)	OA	OUTSIDE AIR
CWR	CONDENSER WATER RETURN	OBD	OPPOSED BLADE DAMPER
CWS	CONDENSER WATER SUPPLY	OC	ON CENTER
DB	DRY BULB	OP	OPERATING
DD	DIRECT DRIVE	OZ	OUNCE
DFU	DRAINAGE FIXTURE UNITS	PD	PRESSURE DROP
DIA	DIAMETER	PERF	PERFORATED
DIFF	DIFFUSER	PLBG	PLUMBING
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DTL	DETAIL	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	QTY	QUANTITY
DX	DIRECT EXPANSION	RA	RETURN AIR
EA	EACH	RCP	REFLECTED CEILING PLAN
EAT	ENTERING AIR TEMPERATURE	REF	REFERENCE
EDH	ELECTRIC DUCT HEATER	RG	RETURN GRILLE
EER	ENERGY EFFICIENCY RATIO	RH	RELATIVE HUMIDITY
EF	EXHAUST FAN	REQ'D	REQUIRED
EL	ELEVATION	RLA	RUNNING LOAD AMPS
ELEC	ELECTRICAL	RM	ROOM
ELEV	ELEVATOR	RPM	REVOLUTIONS PER MINUTE
EMER	EMERGENCY	RTU	ROOFTOP UNIT
ENT	ENTERING	SA	SUPPLY AIR
EQ	EQUAL, EQUIVALENT	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EQUIP	EQUIPMENT	SENS	SENSIBLE (BTU)
ESP	EXTERNAL STATIC PRESSURE	SF	SUPPLY FAN
EWT	ENTERING WATER TEMPERATURE	SFU	SUPPLY FIXTURE UNITS
ERV	ENERGY RECOVERY VENTILATOR	SP	STATIC PRESSURE
EXH	EXHAUST	SPECS	SPECIFICATIONS
EXIST	EXISTING	SQ FT	SQUARE FEET
EXT	EXTERNAL	S, SAN	SANITARY SEWER
EXP	EXPANSION	SS	STAINLESS STEEL
°F	DEGREES FAHRENHEIT	STD	STANDARD
FA	FREE AREA	T-STAT	THERMOSTAT
FCU	FAN COIL UNIT	TA	TRANSFER AIR
FCO	FLOOR CLEANOUT	TEMP	TEMPERATURE
FD	FIRE DAMPER	TG	TRANSFER GRILLE
FD	FLOOR DRAIN	TOT	TOTAL (BTU)
FF	FINAL FILTER	TYP	TYPICAL
FF	FINISHED FLOOR	UC	UNDERCUT (DOOR)
FIXT	FIXTURE	UF	UNDER FLOOR
FL	FLOOR	UH	UNIT HEATER
FLA	FULL LOAD AMPS	U.O.N.	UNLESS OTHERWISE NOTED
FLEX	FLEXIBLE CONNECTION	V	VENT
FPV	FAN POWERED VAV TERMINAL UNIT	V	VOLTS
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
FT	FEET	VFD	VARIABLE FREQUENCY DRIVE
FTU	FAN POWERED VAV TERMINAL UNIT	VTR	VENT THRU ROOF
GA	GAUGE	VVT	VARIABLE VOLUME TERMINAL UNIT
GAL	GALLONS	W	WATTS
GALV	GALVANIZED	WB	WET BULB
GPH	GALLONS PER HOUR	WCO	WALL CLEANOUT
GPM	GALLONS PER MINUTE	WH	WATER HEATER
H	HEIGHT	W/	WITH
HD	HUB DRAIN	W/O	WITHOUT

MECHANICAL LEGEND

ABBREVIATION	SYMBOL	DESCRIPTION
CD	CD	CONDENSATE DRAIN
RL/RS	RL/RS	REFRIGERANT LIQUID AND SUCTION
		(ONE LINE SHOWN FOR CLARITY)
	T	THERMOSTAT, 4'-0" AFF ℄
	S	TEMPERATURE SENSOR, 4'-0" AFF ℄
	SD	DUCT SMOKE DETECTOR

CODES AND STANDARDS

THE FOLLOWING CODES, INCLUDING LOCAL AMENDMENTS ADOPTED BY THE CITY OF LEE'S SUMMIT, MISSOURI APPLY TO THIS PROJECT:

2018 INTERNATIONAL BUILDING CODE AND LOCAL AMENDMENTS
2017 NATIONAL ELECTRICAL CODE AND LCOAL AMMENDMENTS
2018 INTERNATIONAL FIRE CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL FUEL GAS CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL PLUMBING CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE AND LOCAL AMENDMENTS
STATE OF MO ACCESSIBILITY STANDARDS

CONDENSATE DRAIN SIZING CHART

EQUIPMENT CAPACITY IN TONS OF REFRIGERATION	MINIMUM PIPE DIAMETER IN INCHES
UP TO 10 TONS	0.75
11-40	1.00
41-90	1.25
91-125	1.50
126-250	2.00

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI — BRETT A. METCALF — NUMBER PE-2018007856 — PROFESSIONAL ENGINEER — 02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/22
REVIEWED BY:	BAM
DRAWN BY:	BWU
DESIGNED BY:	BWU
PROJECT NUMBER:	
5240368028	

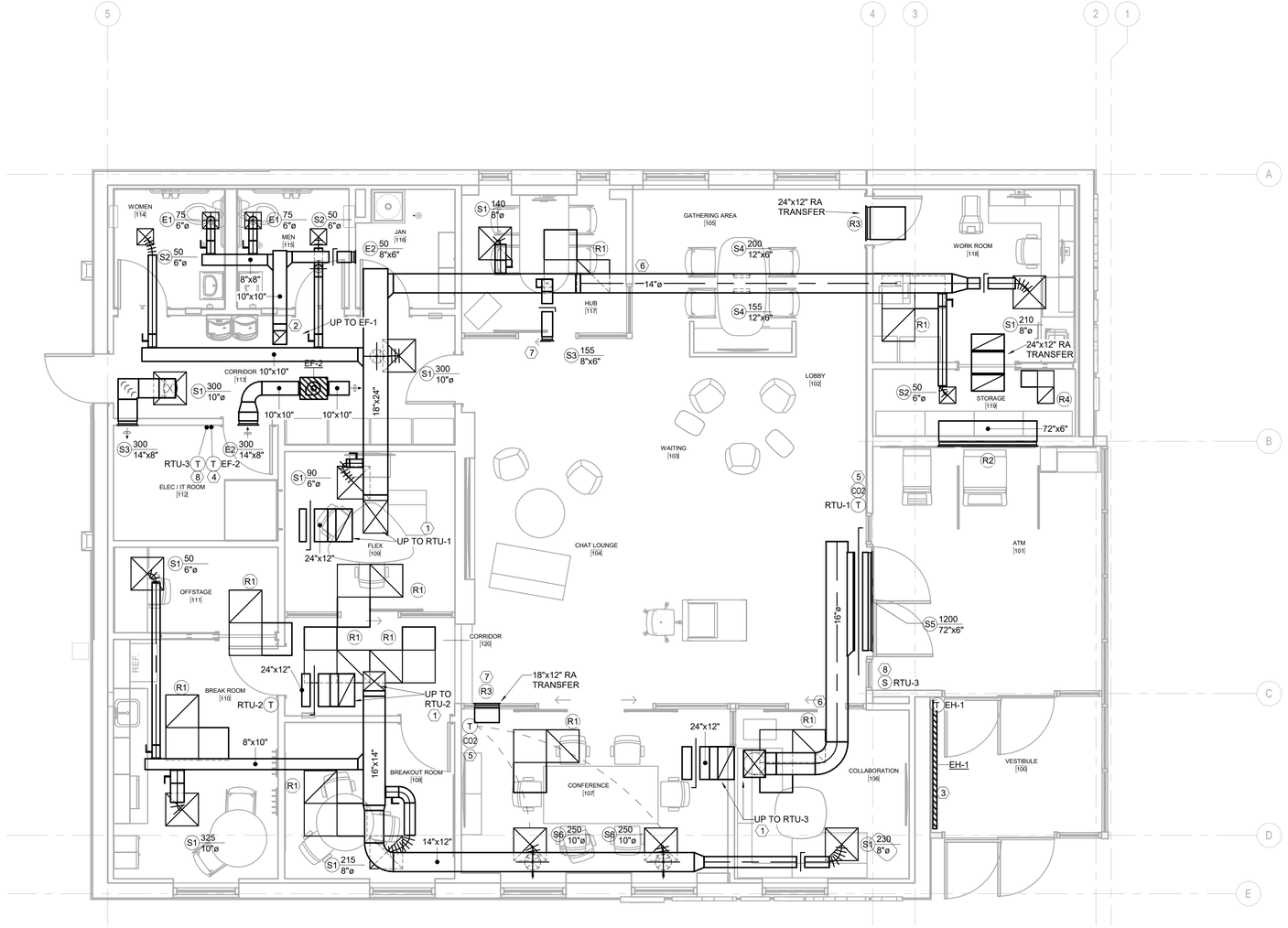
SHEET TITLE:

MECHANICAL NOTES, LEGEND, ABBREVIATIONS

SHEET ID:

M001

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



N

1 / M101 SCALE: 1/4" = 1'-0"

MECHANICAL PLAN

GENERAL NOTES

1. CONTRACTOR SHALL PROGRAM THERMOSTAT (HONEYWELL VISION PRO 8000) SET POINTS PRIOR TO END OF CONSTRUCTION: HEATING - 70°F OCCUPIED, 60°F UNOCCUPIED; COOLING - 74°F OCCUPIED, 80°F UNOCCUPIED. SET ACCORDING TO BANK HOURS OF OPERATION. THERMOSTATS AND SENSORS SHALL BE ALIGNED WITH LIGHTING CONTROL DEVICES.
2. COORDINATE WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE AND MAINTAIN CLEARANCES.
3. ALL PENETRATIONS AND OPENINGS IN FIRE-RATED WALLS OR OTHER CONSTRUCTION SHALL BE CLOSED AND SEALED WITH AN APPROVED FIRESTOPPING MATERIAL IN ACCORDANCE WITH UL FIRE RESISTANCE DIRECTORY DETAILS AND PRODUCT MANUFACTURER'S INSTRUCTIONS.
4. PENETRATIONS OF WALLS FOR THE PASSAGE OF PIPING, DUCTWORK, OR OTHER SHALL BE PROPERLY SEALED AFTER INSTALLATION. FIELD VERIFY WALL PENETRATIONS AND PROPERLY SEAL AS REQUIRED TO MAINTAIN WALL RATING.
5. DUCT RUNOUT WITH TAKEOFF SHALL MATCH DIFFUSER'S NECK SIZE. WHERE THE DEPTH OF THE DUCTWORK WILL NOT PERMIT A SPIN IN COLLAR FITTING, PROVIDE AN EQUIVALENT FLAT OVAL CONNECTION WITH MANUAL VOLUME DAMPER AND AN OVAL TO ROUND TRANSITION FOR EACH TAP.
6. CONTRACTOR SHALL ENSURE PROPER RETURN AIR PATH BACK TO AIR HANDLING UNITS. PROVIDE OPENINGS/TRANSFERS ABOVE CEILING OR EXTEND RETURN AIR BOOT DUCT THROUGH WALL ABOVE CEILING WHERE REQUIRED.
7. CONFIRM ALL EQUIPMENT, DUCTWORK ABOVE CEILING ARE PLENUM RATED.
8. COORDINATE LOCATION OF ALL THERMOSTATS/TEMPERATURE SENSORS WITH FURNITURE, MEDIA, ETC. ON WALLS BEFORE ISNTALLING TO ENSURE ACCESSIBILITY.
9. CONTRACTOR SHALL PROVIDE A BALANCING DAMPER AT EACH BRANCH TAP.
10. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL AIR DEVICES.
11. DURING OCCUPIED MODE, THE INDOOR FAN SHALL BE SET TO CONSTANT ON. THE FAN SHALL CYCLE DURING NON-OCCUPIED MODE.

KEYED NOTES

1. NEW ROOFTOP UNIT ON ROOF. TRANSITION AS REQUIRED TO CONNECT TO SUPPLY AND RETURN DROPS.
2. NEW EXHAUST FAN ON ROOF. TRANSITION AS REQUIRED TO CONNECT. MAINTAIN MINIMUM 10'-0" CLEARANCE FROM EXHAUST TO ANY FRESH AIR INTAKE.
3. PROVIDE RADIANT HEATER PANEL IN THE COVE MOUNTED CONFIGURATION. COORDINATE WITH ARCHITECTURAL.
4. CONTRACTOR SHALL LOCATE LINE VOLTAGE THERMOSTAT (BARBER COLMAN T-1161) SET AT 80°F (ADJUSTABLE) WHERE SHOWN ON PLAN. ALIGN WITH LIGHTING CONTROL DEVICES.
5. PROVIDE CO2 SENSOR. SETPOINT SHALL NOT EXCEED 1000 PPM INDOOR CO2 CONCENTRATION. SENSORS SHALL HAVE AN AUDIBLE ALARM IF SET POINT IS REACHED.
6. COORDINATE DUCT PENETRATION THROUGH ACOUSTICAL PANELS. REFER TO DETAIL SHOWN ON A501. COORDINATE HEIGHT OF PENETRATION WITH ARCHITECTURAL ELEVATIONS.
7. COORDINATE FINISH OF GRILLE PENETRATION THROUGH ACOUSTICAL PANEL. PROVIDE TRIM AS NECESSARY TO PROVIDE FINISHED LOOK. COORDINATE HEIGHT OF PENETRATION WITH ARCHITECTURAL ELEVATIONS.
8. PROVIDE TEMPERATURE SENSOR WITH NO PROGRAMMABLE CONTROLS IN 24 HOUR ATM VESTIBULE. PROGRAMMABLE CONTROL FOR UNIT SHALL BE PLACED IN BACK OF HOUSE IT ROOM.

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PNC

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LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/22
REVIEWED BY:	BAM
DRAWN BY:	BWU
DESIGNED BY:	BWU

PROJECT NUMBER:
5240368028

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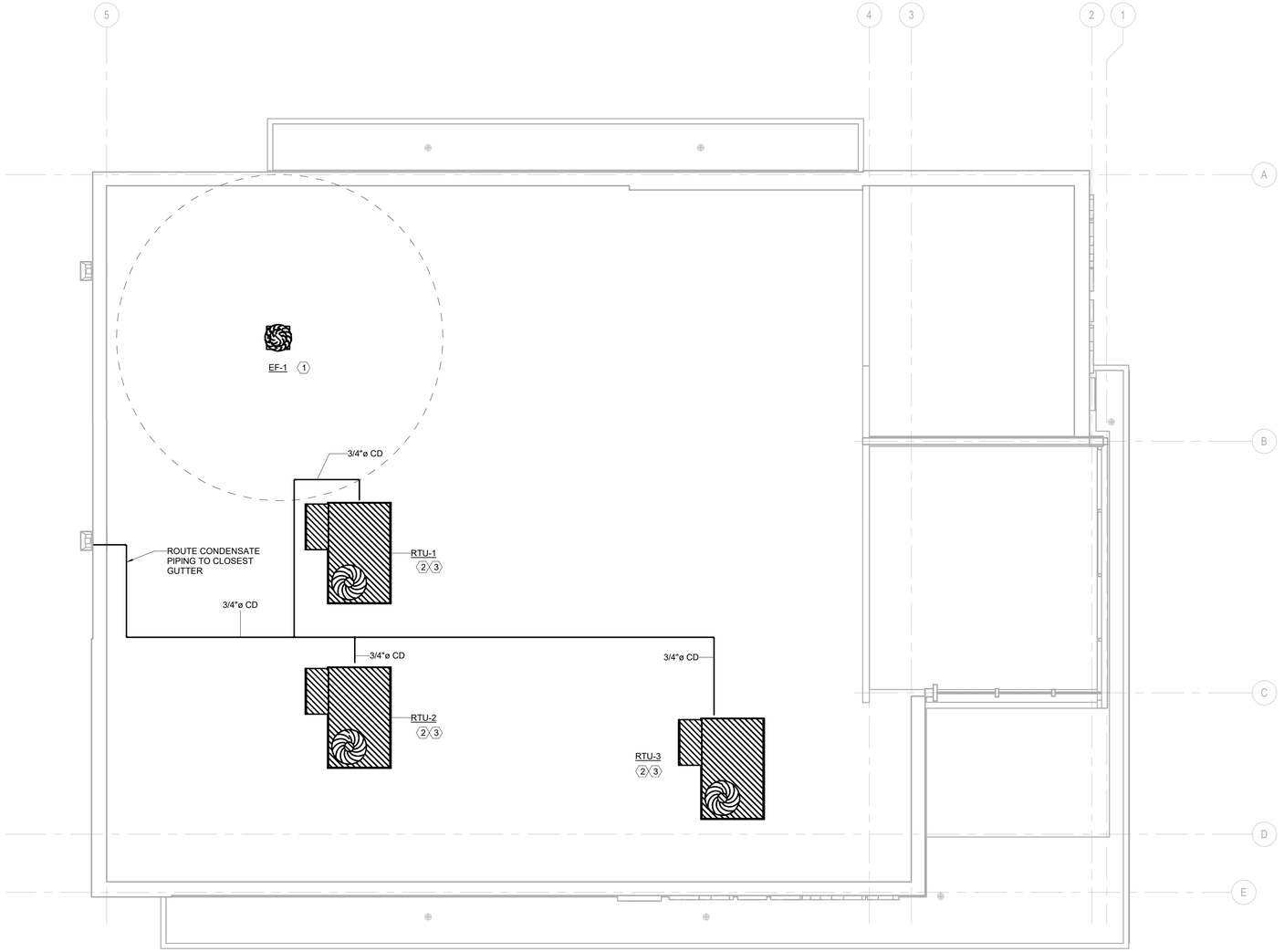
MECHANICAL PLAN

SHEET ID:
M101

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



N

1 M102 MECHANICAL ROOF PLAN

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

MECHANICAL GENERAL NOTES

1. PROVIDE INSULATED ROOF CURB FOR SUPPORT OF ALL HVAC EQUIPMENT.
2. ENSURE PROPER MANUFACTURER RECOMMENDED CLEARANCES FOR ALL HVAC EQUIPMENT.
3. PROVIDE SLEEPER PADS ON ROOF UNDER CONDENSATE DRAIN LINE. SUPPORTS SHALL BE PER MANUFACTURER REQUIREMENTS.
4. PIPE SUPPORTS ON ROOF SHALL BE CADDY PYRAMID ST SERIES ADJUSTABLE HEIGHT STRUT SUPPORTS. SUPPORTS SHALL BE SPACED ACCORDING TO THE APPLICABLE BUILDING CODE.

KEYED NOTES

1. MAINTAIN 10' CLEARANCE FROM EXHAUST FAN TO ANY ROOF EDGE AND ANY FRESH AIR INTAKE.
2. MECHANICAL CONTRACTOR TO PROVIDE 2" MERV 13 FILTERS UPON SIGNIFICANT COMPLETION OF PROJECT.
3. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL NEEDLEPOINT BI-POLAR IONIZATION. BI-POLAR IONIZATION SHALL BE UL867 COMPLIANT. PART TO BE ORDERED UPON ACCEPTANCE OF PROJECT TO MEET LONG LEAD TIME ON PRODUCT. PROVIDE ATMOSAIR MATTERHORN 1002 OR APPROVED EQUAL. INTERLOCK WITH RTU TO OPERATE ONLY WHEN RTU FAN IS ON.

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02/15/22

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DESIGNED BY:	BWU
PROJECT NUMBER:	**5240368028**

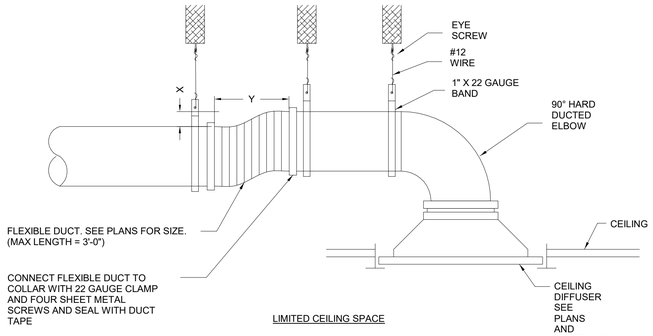
SHEET TITLE:

ROOF PLAN

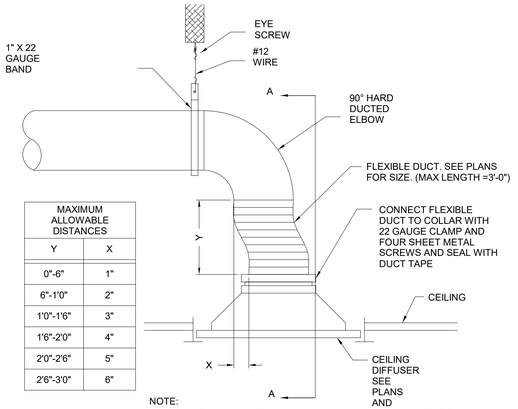
SHEET ID:

M102

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

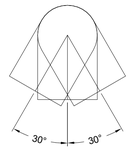


LIMITED CEILING SPACE



MAXIMUM ALLOWABLE DISTANCES	
Y	X
0"-6"	1"
6"-1'0"	2"
1'0"-1'6"	3"
1'6"-2'0"	4"
2'0"-2'6"	5"
2'6"-3'0"	6"

NOTE:
FLEXIBLE DUCT TOTAL OFFSET IN PLAN SHALL BE EQUAL TO OR LESS THAN THE VALUE SHOWN IN THIS DETAIL (IN ANY DIRECTION).

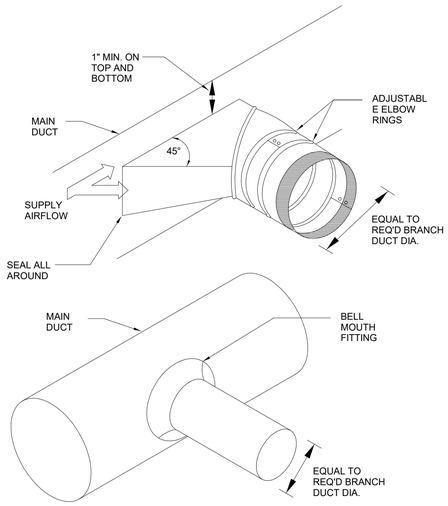


NOTE:
ELBOW SHALL BE ALLOWED TO ROTATE A MAXIMUM 30°.

SECTION A-A

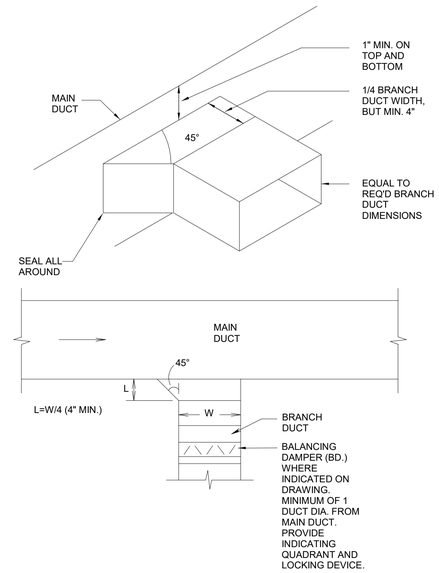
1 M301 CEILING DIFFUSER DETAIL

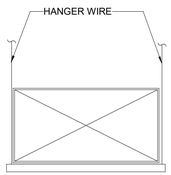
SCALE: N.T.S.



2 M301 DUCT BRANCH DETAIL

SCALE: N.T.S.



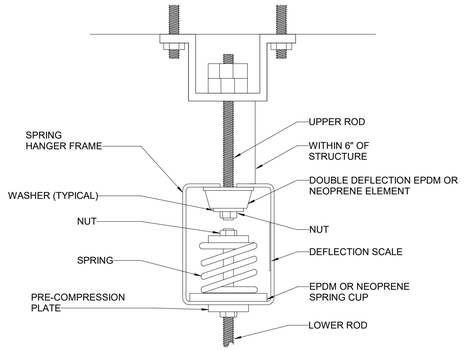


NOTES:

1. MAXIMUM SPACING BETWEEN HANGER LOCATIONS SHALL BE 8'-0" PER PAIR.
2. REFER TO SMACNA FOR ADDITIONAL REQUIREMENTS.

3 M301 DUCT HANGER DETAIL

SCALE: N.T.S.

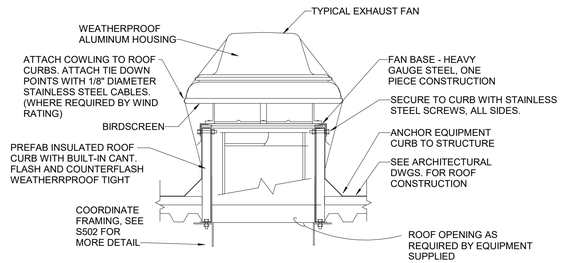


NOTES:

1. TYPICAL SPRING & NEOPRENE IN SERIES ISOLATOR DETAIL. OTHER TYPES OF VIBRATION ISOLATORS ARE SIMILAR.
2. THE SPRING SHALL BE PRE-COMPRESSED SO THAT WHEN PROPERLY INSTALLED AND LOADED, THE SPRING IS ADJUSTED TO THE MID-POINT OF THE DEFLECTION SCALE.
3. REFER TO THE SPECIFICATIONS FOR THE DEFLECTION REQUIREMENTS.

4 M301 SPRING AND NEOPRENE ISOLATOR DETAIL

SCALE: N.T.S.



NOTES :

1. PROVIDE NEMA 4X STAINLESS STEEL ELECTRICAL DISCONNECT, MOUNTED ON UNIT. RUN CONDUIT FOR ELECTRICAL POWER THROUGH CURB AND INSIDE FAN BASE.
2. PROVIDE SELF-ACTING BACKDRAFT DAMPER, SECURED TO ROOF CURB
3. PROVIDE TIE-DOWN POINTS AND ATTACH PER MANUFACTURER'S RECOMMENDATIONS.

5 M301 EXHAUST FAN DETAIL (TYP.)

SCALE: N.T.S.

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STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2010007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

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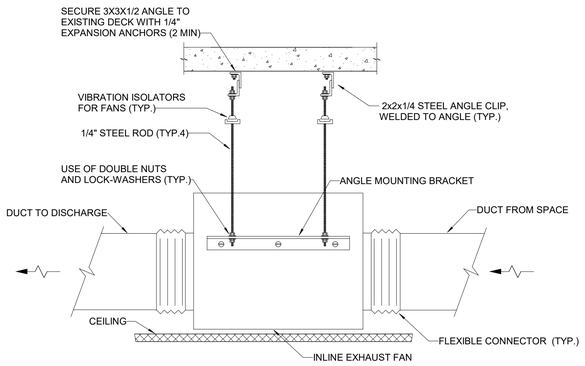
MECHANICAL DETAILS

SHEET ID:

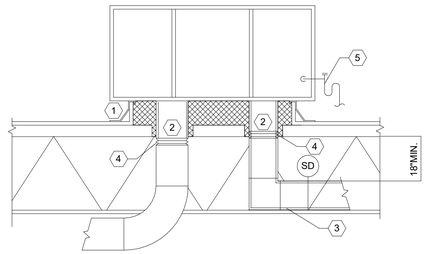
M301

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



1 M302 INLINE TRANSFER FAN DETAIL

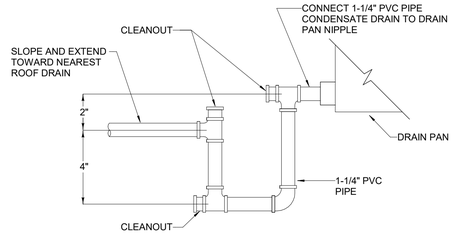
SCALE: N.T.S.



KEY
NOTES:
1. SET INSULATED ROOF CURB ON ROOF STRUCTURE - VERIFY LEVEL. SECURE ROOF CURB TO ROOF AND ROOF TOP UNIT TO ROOF CURB.
2. TRANSITION TO CONNECTION SIZES IN DUCT RISE, REFER TO PLANS FOR SIZES.
3. 1" ACOUSTIC LINER IN ENTIRE RETURN DUCTWORK SYSTEM. DUCT SIZES INDICATED ON PLAN ARE FREE AREA DIMENSIONS. REFER TO STRUCTURAL/ARCHITECTURAL DRAWINGS FOR JOIST LOCATIONS, SIZES, AND DIRECTION.
4. FLEXIBLE CONNECTION - TYPICAL.
5. PVC CONDENSATE DRAIN ROUTED TO NEAREST ROOF DRAIN AND STUB INTO DRAIN. SEE DETAIL FOR ADDITIONAL INFORMATION. SUPPORT WITH COOPER B LINE DURA-BLOK PIPE SUPPORTS.

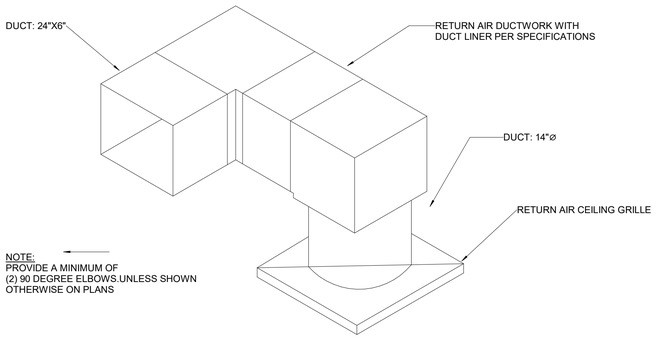
2 M302 RTU INSTALLATION DETAIL

SCALE: N.T.S.



3 M302 CONDENSATE DRAIN TRAP DETAIL

SCALE: N.T.S.



NOTE:
PROVIDE A MINIMUM OF
(2) 90 DEGREE ELBOWS.UNLESS SHOWN
OTHERWISE ON PLANS

4 M302 RETURN AIR GRILLE BOOT DETAIL

SCALE: N.T.S.

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REVIEWED BY: BAM
DRAWN BY: BWU
DESIGNED BY: BWU
PROJECT NUMBER: 5240368028

SHEET TITLE:
MECHANICAL DETAILS

SHEET ID:
M302

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

GAS/ELECTRIC ROOFTOP UNIT (RTU) SCHEDULE

MARK	SERVES	COOLING									HEATING			BLOWER					ELECTRICAL			OPER. WEIGHT (LBS)	MFG	MODEL NUMBER	NOTES
			CAP MBH		ENT. COIL		LVG. COIL			SEER (EER)	INPUT MBH	OUTPUT MBH	EFF %	CFM	ESP IN W.C.	RPM	HP (BHP)	O/A CFM	V/PH/HZ	MCA	MOCP				
		TON	TOT	SENS	DB °F	WB °F	DB °F	WB °F	OA DB °F																
RTU-1	LOBBY	5	55.4	37.7	77.3	64.5	51.5	50.7	96	16.1	67	54	81	1405	0.75	1785	(1.4)	315	208/3/60	31	45	768	CARRIER	48GCDM06	1-15
RTU-2	BACK OF HOUSE	4	43.8	42.3	82.3	62.4	53.4	51.2	96	16.1	67	54	81	1440	0.75	1900	(1.1)	200	208/3/60	27	30	723	CARRIER	48GCDM05	1-15
RTU-3	ATM VESTIBULE	3	30.5	30.5	80.7	60.6	56.2	51.3	96	16.1	67	54	81	1200	0.75	1836	(0.44)	50	208/3/60	22	30	681	CARRIER	48GCDM04	1-15

NOTES:

1. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE UNIT OR FILTER LOSSES.
2. R-410A REFRIGERANT ONLY.
3. FURNISH NON-FUSED DISCONNECT SWITCH WITH EXTERNAL HANDLE FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
4. PNC TO PROVIDE 14" HIGH FACTORY INSULATED ROOF CURB.
5. PNC TO PROVIDE OUTSIDE AIR INTAKE HOOD.
6. PNC TO PROVIDE WITH CONVENIENCE OUTLET AT UNIT.
7. PNC TO PROVIDE WITH OUTSIDE AIR ENTHALPY CONTROLLED ECONOMIZER WITH BAROMETRIC RELIEF.
8. PNC TO PROVIDE WITH FILTER RACK TO SUPPORT MINIMUM 2" FILTER. MECHANICAL CONTRACTOR TO PROVIDE 2" MERV 13 FILTER UPON SIGNIFICANT COMPLETION OF PROJECT.
9. PNC TO PROVIDE WITH FACTORY INSTALLED DEMAND CONTROL VENTILATION.
10. PNC TO PROVIDE WITH LOW AMBIENT KIT.
11. MECHANICAL CONTRACTOR TO PROVIDE WITH SMOKE DETECTORS IN RETURN DUCTS PER CODE. CONTRACTOR TO OMIT OR DISABLE FACTORY INSTALLED SMOKE DETECTOR.
12. MECHANICAL CONTRACTOR TO PROVIDE BURGLAR BARS FOR FIELD INSTALLATION.
13. MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL NEEDLEPOINT BI-POLAR IONIZATION. BI-POLAR IONIZATION SHALL BE UL867 COMPLIANT. PART TO BE ORDERED UPON ACCEPTANCE OF PROJECT TO MEET LONG LEAD TIME ON PRODUCT. PROVIDE ATMOSAIR MATTERHORN 1002 OR APPROVED EQUAL. INTERLOCK WITH RTU TO OPERATE ONLY WHEN RTU FAN IS ON.
14. MECHANICAL CONTRACTOR TO PROVIDE PROGRAMMABLE THERMOSTAT WITH SEPARATE SETPOINT TEMPERATURES FOR NORMAL AND SETBACK MODES; THERMOSTAT SHALL ACCEPT REMOTE NORMAL/SETBACK DIGITAL INPUTS. THERMOSTAT SHALL BE HARDWIRED HONEYWELL VISION PRO 8000.
15. MECHANICAL CONTRACTOR TO PROVIDE CARBON DIOXIDE SENSOR AS SHOWN ON PLANS. INSTALL AT SAME HEIGHT AS LIGHT SWITCHES AND THERMOSTATS.

GRILLES, REGISTERS, AND DIFFUSERS

MARK	DESCRIPTION	MFG / MODEL	CEILING / BORDER	FINISH COLOR	PANEL SIZE	MATERIAL	NECK SIZE	NOTES
S1	PLAQUE FACE SUPPLY	TITUS / OMNI	LAY-IN / 3	WHITE	24"X24"	STEEL	SEE PLAN	1-5, 9
S2	PLAQUE FACE SUPPLY	TITUS / OMNI	LAY-IN / 3	WHITE	12"X12"	STEEL	SEE PLAN	1-5, 9
S3	SIDEWALL SUPPLY	TITUS / 300RS-HD	GYP / -	WHITE	SEE PLAN	STEEL	SEE PLAN	5, 7
S4	DUCT MOUNTED SUPPLY	TITUS / S300FS	- / -	BLACK	SEE PLAN	ALUMINUM	SEE PLAN	7, 10, 11
S5	LINEAR BAR GRILLE SUPPLY	TITUS / CT-481	- / -	WHITE	SEE PLAN	STEEL	SEE PLAN	5
S6	PLAQUE FACE SUPPLY	TITUS / T3SQ-2	LAY-IN / 3	WHITE	24"X24"	STEEL	SEE PLAN	1-5, 9, 12-14
R1	PLAQUE FACE RETURN	TITUS / OMNI	LAY-IN / 3	WHITE	24"X24"	STEEL	SEE PLAN	1-4, 6
R2	LINEAR BAR GRILLE RETURN	TITUS / CT-480	- / -	WHITE	SEE PLAN	STEEL	SEE PLAN	8
R3	LINEAR BAR GRILLE RETURN	TITUS / 300RS	- / -	WHITE	SEE PLAN	STEEL	SEE PLAN	8
R4	PLAQUE FACE RETURN	TITUS / OMNI	LAY-IN / 3	WHITE	12"X12"	STEEL	SEE PLAN	1-4, 6
E1	PLAQUE FACE EXHAUST	TITUS / OMNI	LAY-IN / 3	WHITE	12"X12"	STEEL	SEE PLAN	1-3, 5
E2	SIDEWALL EXHAUST	TITUS / 355ZRL	GYP / 1	WHITE	SEE PLAN	STEEL	SEE PLAN	8

NOTES:

1. PROVIDE "RAPID MOUNT" FRAMES BORDER FOR GYPSUM BOARD CEILINGS OR LAY-IN FRAME WHERE REQUIRED. SEE ARCH CEILING PLANS. PLASTER FRAMES SHALL BE FACTORY PRIMED FOR FIELD PAINTING.
2. CONFIRM FINISH WITH ARCHITECT AND PNC STANDARDS.
3. PROVIDE MOUNTING CLIPS.
4. PROVIDE MOLDED INSULATED BLANKET OR INSULATE THE BACKSIDE OF DIFFUSER PAN FOR SUPPLY APPLICATIONS.
5. DUCT-MOUNTED VOLUME DAMPERS SHALL BE PROVIDED AT TAKE-OFF.
6. PROVIDE WITH SQUARE TO ROUND ADAPTER WHERE APPLICABLE.
7. PROVIDE REGISTER WITH DOUBLE DEFLECTION.
8. PROVIDE REGISTER WITH 0 DEG DEFLECTION.
9. CORE TO BE 1/2"x1/2"x1" ALUMINUM GRID.
10. CONFIRM FINISH COLOR WITH ARCHITECT. COLOR TO MATCH DUCTWORK.
11. PROVIDE AIR SCOOP DEVICE FOR AIR VOLUME ADJUSTMENT.
12. PROVIDE POWER MODULE AND WIRING AS REQUIRED BY THE MFG.
13. PROVIDE CONTROLLER/THERMOSTAT FOR EACH PRIMARY DIFFUSER AS SHOWN ON PLAN.
14. PROVIDE WITH PRESSURE RELIEF RING.

COMcheck Software Version 4.1.5.3
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title:
Location: Lees Summit, Missouri
Climate Zone: 4a
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 55 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.10 SEER, Required Efficiency: 14.00 SEER
Fan System: RTU-1 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1405 CFM, 1.4 motor nameplate hp, 0.0 fan efficiency grade

1 RTU-2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 44 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.10 SEER, Required Efficiency: 14.00 SEER
Fan System: RTU-2 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 1440 CFM, 1.1 motor nameplate hp, 0.0 fan efficiency grade

1 RTU-3 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 67 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 31 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 16.10 SEER, Required Efficiency: 14.00 SEER
Fan System: RTU-3 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade

1 EH-1 (Single Zone):
Heating: 1 each - Radiant Heater, Electric, Capacity = 4 kBtu/h
No minimum efficiency requirement applies
Fan System: None

1 EWH-1:
Electric Storage Water Heater, Capacity: 6 gallons
Proposed Efficiency: 4.80 SL, %/h (if > 12 kW), Required Efficiency: 4.80 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

BRETT METCALF - MECHANICAL ENGINEER — Name - Title
Signature
01/27/2022 — Date

EXHAUST FAN SCHEDULE

MARK	SERVICE / TYPE	AREA SERVED	FAN			ELECTRICAL		MAX SONES	WEIGHT [LBS]	MANUFACTURER/MODEL	NOTES
			CFM	ESP [in WG]	RPM	HP (W)	V/PH/HZ				
EF-01	EXHAUST / ROOF	RESTROOM / JANITOR	200	0.2	1500	1/15	115/1/60	8.7	25	GREENHECK G-070-VG	1-6
EF-02	EXHAUST / INLINE	IT	300	0.3	1510	1/10	115/1/60	6.9	41	GREENHECK SQ-80-VG	1, 3, 4, 7-9

NOTES:

1. PROVIDE 14" TALL FACTORY INSULATED ROOF CURB WITH INTEGRAL GRAVITY BACKDRAFT DAMPER.
2. PROVIDE ANTI-BLOWING RAIN INTERNAL WIND BAND AND NEMA 3R EXTERNAL TYPE DISCONNECT SWITCH.
3. PROVIDE NEMA-1 DISCONNECT SWITCH.
4. PROVIDE WITH FAN SPEED CONTROLLER.
5. PROVIDE BIRD SCREEN.
6. FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS VIA LUTRON PANEL.
7. FAN SHALL TO BE RUN BASED ON THERMOSTAT SET AT 80 DEGREES. THERMOSTAT SHALL BE BARBER COLMAN TC-1161. PROVIDED BY MECHANICAL CONTRACTOR.
8. PROVIDE BACKDRAFT DAMPER.
9. PROVIDE VIBRATION ISOLATION HANGER KIT. REFER TO INLINE FAN DETAIL.

FANS SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

RADIANT COVE HEATER SCHEDULE

MARK	SERVICE	QUANTITY	LENGTH [IN]	WATTAGE	V / PH / A	MANUFACTURER - MODEL	NOTES
EH-1	VESTIBULE	1	94	1200	208 / 1 / 7.2	QMARK - RCC12008C	1-2

NOTES:

1. PROVIDE WITH INTEGRAL THERMOSTAT, NEMA 1 ENCLOSURE PANEL, AND MOUNTING BRACKETS.
2. PROVIDE MODEL WITH DOVE GRAY COLORING.

CARRIER NATIONAL ACCOUNTS HVAC EQUIPMENT PACKAGE. PNC BANK HAS A NATIONAL HVAC AGREEMENT WITH CARRIER NATIONAL ACCOUNTS. THE HVAC EQUIPMENT SHALL BE PURCHASED BY PNC BANK OR DESIGNATED PNC BANK REPRESENTATIVE AS DIRECTED. ALL EQUIPMENT SHALL BE PURCHASED DIRECTLY FROM CARRIER NATIONAL ACCOUNTS - NO EXCEPTIONS. FOR PRICE QUOTES, PROJECT SUBMITTALS, AND QUESTIONS REGARDING TECHNICAL SPECIFICATIONS CONTACT CARRIER NATIONAL ACCOUNTS, RIANNE PARKER AT 315-432-6224 OR EMAIL: NATIONALACCOUNTS@CARRIER.COM.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:
PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/22
REVIEWED BY: BAM
DRAWN BY: BWU
DESIGNED BY: BWU
PROJECT NUMBER: 5240368028

SHEET TITLE:
MECHANICAL SCHEDULES

SHEET ID:
M401

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

System name and number	RTU-1
Condition analyzed (impacts Ez, Vdz, Vpz and Vps)	Heating
All zones are included in the VRP calculation	Yes

Zone Name and Number	Occupancy Category	Zone Floor Area Az (sq ft)	Are you using default value for zone population?	Zone Population Pz (people)	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow Voz (cfm)	Zone Discharge Airflow Vdz (cfm)	Zone Primary Airflow Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
103 Waiting	Lobbies	305	No	4.00	0.80	62.24	155	155	0.75	1.00
104 Chat Lounge	Lobbies	299	No	4.00	0.80	61.65	155	155	0.75	1.00
105 Gathering Area	Lobbies	133	No	4.00	0.80	45.46	200	200	0.75	1.00
109 Flex	Office space	95	No	3.00	0.80	33.64	90	90	0.75	1.00
112 Elec/IT	Electrical equipment rooms	67	Yes	0.00	0.80	6.53	250	250	0.75	1.00
113 Corridor	Common corridors	140	Yes	0.00	0.80	13.65	50	50	0.75	1.00
117 Hub	Office space	89	No	4.00	0.80	41.18	140	140	0.75	1.00
118 Work Room	Office space	140	No	1.00	0.80	21.78	210	210	0.75	1.00
119 Storage	Storage rooms	58	Yes	0.00	0.80	11.30	50	50	0.75	1.00

Add Rows | Delete Rows

System area	*As*	(sq ft)	1,326
System population	*Ps*	(people)	20.00
Sum of zone population	*sum of Pz*	(people)	20.00
Occupant diversity	*D*		1.00
Uncorrected outdoor air intake	*Vou*	(cfm)	237.95
System primary airflow (at condition analyzed)	*Vps*	(cfm)	1,400
Average outdoor air fraction	*Xs*		0.16

Which method from ASHRAE 62.1 is being used to determine system ventilation efficiency (Ev)?			Appendix A
Ventilation efficiency	*Ev*		0.76
Outdoor air intake flow (30% above 62.1 requireme	*Vot*	(cfm)	313

Outdoor air intake flow provided (measured or design)	(cfm)	315

System name and number	RTU-2
Condition analyzed (impacts Ez, Vdz, Vpz and Vps)	Heating
All zones are included in the VRP calculation	Yes

Zone Name and Number	Occupancy Category	Zone Floor Area Az (sq ft)	Are you using default value for zone population?	Zone Population Pz (people)	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow Voz (cfm)	Zone Discharge Airflow Vdz (cfm)	Zone Primary Airflow Vpz (cfm)	Zone Secondary Recirculation Fraction Er	Zone Primary Air Fraction Ep
						Vbz / Ez				Vpz/Vdz
106 Collaboration	Office space	115	No	4.00	0.80	43.71	230	230	0.75	1.00
107 Conference	Conference / meeting	172	No	6.00	0.80	65.51	500	500	0.75	1.00
108 Breakout Room	Office space	100	No	3.00	0.80	34.13	215	215	0.75	1.00
110 Break room	Break rooms (general)	148	No	4.00	0.80	46.93	325	325	0.75	1.00
111 Offstage	Office space	53	No	1.00	0.80	13.29	50	50	0.75	1.00

Add Rows | Delete Rows

System area	*As*	(sq ft)	588
System population	*Ps*	(people)	18.00
Sum of zone population	*sum of Pz*	(people)	18.00
Occupant diversity	*D*		1.00
Uncorrected outdoor air intake	*Vou*	(cfm)	162.86
System primary airflow (at condition analyzed)	*Vps*	(cfm)	1,320
Average outdoor air fraction	*Xs*		0.12

Which method from ASHRAE 62.1 is being used to determine system ventilation efficiency (Ev)?			Appendix A
Ventilation efficiency	*Ev*		0.85
Outdoor air intake flow (30% above 62.1 requireme	*Vot*	(cfm)	192

Outdoor air intake flow provided (measured or design)	(cfm)	200

System Name and Number	Condition Analyzed (impacts Ez)	Occupancy Category	Zone Floor Area Az (sq ft)	Are you using default value for zone population?	Zone Population Pz people	Zone Air Distribution Effectiveness Ez	Zone Outdoor Airflow Voz (cfm)	Outdoor air intake flow provided (measured or design) (cfm)
RTU-3	Heating	Lobbies	182	No	0.00	0.80	18	50

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
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LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/22
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER: 5240368028

SHEET TITLE:

MECHANICAL SCHEDULES

SHEET ID:

M402

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

GENERAL PLUMBING NOTES

1. ALL WORK SHALL COMPLY WITH THE CURRENT INTERNATIONAL BUILDING, PLUMBING AND MECHANICAL CODES, AS WELL AS ANY OTHER AUTHORITY HAVING JURISDICTION.
2. COORDINATE PLUMBING WORK WITH THAT OF OTHER TRADES IN ORDER TO AVOID INTERFERENCE AND MAINTAIN CLEARANCES. INDICATE ACCESS AREA REQUIRED ON COORDINATED SHOP DRAWINGS FOR MECHANICAL EQUIPMENT ROOMS.
3. FURNISH APPROVED OPERATING INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT. THE OPERATING INSTRUCTIONS SHALL INCLUDE WIRING DIAGRAMS, CONTROL SCHEMATICS, AND PROGRAMMING INSTRUCTIONS FOR EACH SYSTEM. PRINT OR ENGRAVE OPERATING INSTRUCTIONS AND FRAME UNDER GLASS OR IN APPROVED LAMINATED PLASTIC. POST INSTRUCTIONS WHERE DIRECTED. INSTRUCTIONS SHALL INCLUDE START-UP, OPERATING, SHUTDOWN, SAFETY PRECAUTIONS AND PROCEDURE IN THE EVENT OF EQUIPMENT FAILURE.
4. WHERE INSTALLATION PROCEDURES OR ANY PART THEREOF ARE REQUIRED TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. FURNISH PRINTED COPIES OF THE RECOMMENDATIONS PRIOR TO INSTALLATION.
5. ALL EQUIPMENT AND MATERIALS PROVIDED FOR THIS PROJECT SHALL BE NEW AND FREE FROM DEFECTS.
6. PROVIDE PERMANENT IDENTIFICATION PLATES FOR ALL EQUIPMENT AND PLASTIC PIPE MARKERS ON ALL PIPING SYSTEMS. PROVIDE VALVE TAGS FOR ALL VALVES. DUCTWORK JACKETS AND SIMILAR FINISHES MAY BE IDENTIFIED WITH STENCIL PAINTING.
7. PROVIDE SLEEVES FOR ALL PIPING PENETRATIONS. PLACE SLEEVES PRIOR TO COMPLETION OF WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE.
8. ALL PENETRATIONS AND OPENINGS IN FIRE-RATED WALLS OR OTHER CONSTRUCTION SHALL BE CLOSED AND SEALED WITH AN APPROVED FIRESTOPPING MATERIAL IN ACCORDANCE WITH UL FIRE RESISTANCE DIRECTORY DETAILS AND PRODUCT MANUFACTURER'S INSTRUCTIONS.
9. SELECT AND INSTALL PIPE SUPPORTS AND ANCHORS IN ACCORDANCE WITH MSS SP 58 AND SP 69. PROVIDE SINGLE OR MULTIPLE HANGERS AS APPROPRIATE. PROVIDE HANGERS WITH ADJUSTABLE MEANS FOR CONTROLLING THE LEVEL OR SLOPE OF PIPES.
10. INSULATE ALL POTABLE COLD WATER PIPING. INSULATE ALL POTABLE HOT WATER PIPING.
11. ALL PIPE INSULATION WITHIN THE BUILDING SHALL BE ASTM C547, CLASS 1 PREFORMED FIBERGLASS PIPE INSULATION WITH AN ALL-SERVICE VAPOR-BARRIER JACKET. 1/2-INCH THICK FOR PIPE SIZES UP TO AND INCLUDING 1-1/4 INCHES, 1-INCH THICK FOR PIPE SIZES 1-1/2 AND 2 INCHES. MAXIMUM FLAME-SPREAD/ SMOKE-DEVELOPED RATINGS SHALL BE 25/50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84. ASTM C534, TYPE I FLEXIBLE UNICELLULAR INSULATION, 3/4-INCH THICK, MAY BE USED IN EXTERIOR LOCATIONS ONLY. PROVIDE A UV-RESISTANT COATING OR JACKET ON ALL EXTERIOR INSULATION.
12. DOMESTIC WATER PIPING SHALL BE HARD COPPER TUBING, ASTM B88, TYPE L WATER TUBE, DRAWN TEMPER, WITH ASME B16.22 WROUGHT-COPPER, SOLDER-JOINT PRESSURE FITTINGS.
13. ABOVE-GRADE SANITARY AND STORM PIPE AND FITTINGS SHALL BE HUBLESS CAST IRON CONFORMING TO CISPI 301. COUPLINGS SHALL BE CISPI 310, HAVING ASTM C564 NEOPRENE SEALING SLEEVE, WITH 300 SERIES STAINLESS-STEEL CORRUGATED SHIELD-AND-CLAMP ASSEMBLY.
14. ALL PIPING SHALL BE INSTALLED PLUMB AND PARALLEL TO BUILDING LINES, AND SUPPORTED IN ACCORDANCE WITH GENERAL REQUIREMENTS SPECIFIED ABOVE.
15. TEST FOR LEAKS AND DEFECTS IN DOMESTIC WATER SYSTEMS. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION. PERFORM PRESSURE TESTS PRIOR TO MAKING EQUIPMENT AND FIXTURE CONNECTIONS.
16. BALL VALVES SHALL BE MSS SP-110, BRONZE, 2-PIECE BODY, FULL PORT.
17. WATER HAMMER ARRESTERS SHALL BE ASME A112.26.1M, ASSE 1010, OR PDI WH-201, BELLOWS TYPE WITH PRESSURIZED CUSHIONING CHAMBER.
18. COPPER UNIONS SHALL BE ASME B16.18 CAST-COPPER-ALLOY BODY, HEXAGONAL STOCK, WITH BALL-AND-SOCKET JOINT, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT, THREADED, OR SOLDER-JOINT AND THREADED ENDS.
19. TRAP SEAL PRIMER VALVES SHALL BE ASSE 1018, 20-80-PSIG WORKING PRESSURE.
20. CLEANOUTS IN FINISHED ROOMS FLUSH WITH WALL SHALL BE SMITH 4530 SERIES OR EQUAL.
21. REFER TO PLUMBING SCHEDULES FOR FIXTURE AND EQUIPMENT REQUIREMENTS. MANUFACTURERS AND MODELS ESTABLISH STANDARDS FOR FIXTURE QUALITY. EQUIVALENT FIXTURES AND EQUIPMENT BY OTHER MANUFACTURERS MAY BE SUBMITTED FOR APPROVAL. INSTALL FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
22. ALL EQUIPMENT AND MATERIALS WITHIN THE PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPMENT INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.
23. COORDINATE ALL CORE DRILLING AND CONSTRUCTION BELOW SLAB WITH OWNER.
24. CONTRACTOR SHALL VERIFY EXISTING POINTS OF CONNECTION FOR DOMESTIC WATER, WASTE, AND VENTS.
25. INSULATE COMPLETE WATER SUPPLIES AND P-TRAPS TO HANDICAPPED LAVATORIES WITH MOLDED AND JACKETED ASSEMBLIES WHICH PROVIDE ACCESS FOR ANGLE STOPS.
26. UNDERGROUND SANITARY AND STORM PIPING SHALL BE PVC DRAINAGE DRAINAGE PIPING, ASTM D2665, SCHEDULE 40, PLAIN ENDS, WITH SCHEDUE-80, ASTM D2665 FITTINGS, MADE TO ASTM D3311 SOCKET-TYPE DRAIN, WASTE, AND VENT PIPE PATTERNS. TRANSITION TO ABOVE GROUND PIPINGS SHALL OCCUR MAX 4" ABOVE SLAB.

CODES AND STANDARDS

THE FOLLOWING CODES, INCLUDING LOCAL AMENDMENTS ADOPTED BY THE CITY OF LEE'S SUMMIT, MISSOURI APPLY TO THIS PROJECT:

2018 INTERNATIONAL BUILDING CODE AND LOCAL AMENDMENTS
2017 NATIONAL ELECTRICAL CODE AND LCOAL AMMENDMENTS
2018 INTERNATIONAL FIRE CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL FUEL GAS CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL MECHANICAL CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL PLUMBING CODE AND LOCAL AMENDMENTS
2018 INTERNATIONAL ENERGY CONSERVATION CODE AND LOCAL AMENDMENTS
STATE OF MO ACCESSIBILITY STANDARDS

PLUMBING EQUIPMENT SCHEDULE

MARK	BASIS OF DESIGN	DESCRIPTION / ACCESSORIES	BRANCH LINE SIZES			
			W	V	CW	HW
W1	MANSFIELD #QUANTUMONE 148-153	WHITE, ELONGATED BOWL, VITREOUS CHINA, FLOOR MOUNTED, ADA COMPLIANT, PRESSURE ASSISTED 1.0 GPF TANK TOILET WITH FLUSH OPERATOR FACING OPEN SIDE OF ROOM; CHURCH #9500SSCT SOLID PLASTIC OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE WITH STAINLESS STEEL POSTS. MCGUIRE #LFBV2165 WITH QUARTER TURN KEY CHROME PLATED BRASS ANGLE STOP.	4"	2"	1/2"	-
L1	AMERICAN STANDARD #0356.115	20-1/2" x 18-1/4" WHITE, VITREOUS CHINA, WALL-MOUNTED LAVATORY; SLOAN #EAF-100-HLT-CP-0.35GPM-MLM-IR-IQ-FCT, CHROME, HARDWIRED FAUCET. PROVIDE WITH SLOAN #EAF-70 TRANSFORMER FOR ELECTRICAL CONNECTION. COORDINATE INSTALLATION OF BOX WITH ELECTRICAL CONTRACTOR. BOX TO BE INSTALLED HIGH UP UNDER SINK TO BE CONCEALED BUT FREE OF PIPING INTERFERENCES. PROVIDE WITH ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE; MCGUIRE #155WC 1-1/4" CHROME PLATED BRASS GRID STRAINER WITH OFFSET TAILPIECE; ZURN #Z1021 WATER SAVER P-TRAP; MCGUIRE #8872 1-1/4" 17 GAUGE CHROME PLATED BRASS P-TRAP; MCGUIRE #LFBV2165 WITH QUARTER TURN KEY CHROME PLATED BRASS ANGLE STOP; TRUEBRO #103 E-Z PROTECTIVE PIPE COVER KIT. MOUNT LAVATORY AT HANDICAPPED HEIGHT WITH J.R. SMITH #0710 FLOOR MOUNTED LAVATORY SUPPORT WITH CONCEALED ARMS.	1-1/2"	1-1/2"	1/2"	1/2"
S1	ELKAY #LRAD-1919-65	19" x 19" x 6-1/2" DEEP, SINGLE COMPARTMENT, STAINLESS STEEL COUNTERTOP SINK WITH THREE HOLE CONFIGURATION; SLOAN #EBF-775-8-TEE-CP-0.5GPM-LAM-IR-F*BT-FCT POLISHED CHROME PLATED BRASS, SENSOR OPERATED, HARDWIRED, LEAD FREE FAUCET WITH GOOSENECK STYLE SPOUT, 0.5GM; PROVIDE WITH SLOAN #EAF-70 TRANSFORMER FOR ELECTRICAL CONNECTION. COORDINATE INSTALLATION OF BOX WITH ELECTRICAL CONTRACTOR. BOX TO BE INSTALLED HIGH UP UNDER SINK TO BE CONCEALED BUT FREE OF PIPING INTERFERENCES. PROVIDE WITH ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE; ELKAY #LK18B CHROME PLATED BRASS STRAINER; MCGUIRE #LFBV2165 WITH QUARTER TURN KEY CHROME PLATED BRASS ANGLE STOP; TRUEBRO MODEL #102 E-Z AND #EX100 E-Z PROTECTIVE PIPE COVER KITS.	1-1/2"	1-1/2"	1/2"	1/2"
WB1	GUY GRAY #SSMIB1AB	MINI STAINLESS STEEL WALL BOX FOR REFRIGERATOR WATER SUPPLY; BRASS PLATED, QUARTER TURN, LEAD FREE VALVE WITH 1/2" SWEAT CONNECTION.	-	-	1/2"	-
FD1	ZURN #Z415B	FLOOR DRAIN WITH CAST IRON BODY, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, 5" ADJUSTABLE POLISHED NICKEL BRONZE STRAINER, SEDIMENT BUCKET, AND SEEPAGE OPENINGS. PROVIDE WITH DEEP SEAL P-TRAP AND SURE SEAL #SS3009V WATERLESS INLINE 3" DRAIN TRAP SEAL.	3"	2"	-	-
EWH1	A.O. SMITH #EJC-6	ELECTRIC WATER HEATER; 6 GALLON STORAGE CAPACITY WITH (1) 1.5 KW ELEMENT; 208 VOLTS, 1 PHASE; EXPANSION TANK: AMTROL MODEL #ST SERIES TANK INLINE TYPE; 115V/1PHASE RECIRCULATION PUMP: TACO MODEL #007; DIGITAL TIMER: TACO MODEL #265-3; AQUASTAT: TACO MODEL #563-2. MOUNT WATER HEATER ON PRE-MANUFACTURERED WALL-MOUNTED WATER HEATER PLATFORM (HOLDRITE QUICK STAND #30-SWHP-WM). REFER TO DETAIL 1/P301.	-	-	3/4" IN	3/4" OUT
J1	STERN WILLIAMS #ELFIN	24"X24"X10" DEEP MOLDED STONE MOP SERVICE BASIN; ZURN #Z843M1-XL CHROME PLATED BRASS SERVICE FAUCET WITH INTEGRAL STOPS, VACUUM BREAKER, 3/4" THREADED HOSE OUTLET, PAIL HOOK, AND ADJUSTABLE WALL BRACE; FIAT #832-AA HOSE AND HOSE BRACKET; FIAT #889-CC MOP HANGER; FIAT #MSG-2424 STAINLESS STEEL WALL GUARD.	3"	2"	1/2"	1/2"
BFP1	WATTS MODEL #009QT	LEAD FREE, SILICON BRONZE, REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH (2) QUARTER-TURN BALL VALVES (SIZE EQUAL TO LINE SIZE). DRAIN RELIEF VALVE TO JANITORS SINK. MOUNT AT 44"AFF.	-	-	-	-
DF1	ELKAY EZH20 #EZOOTL8WSLK	BARRIER FREE, WALL MOUNTED, HANDS-FREE BOTTLE FILLING STATION AND BI-LEVEL (HANDICAPPED AND STANDARD HEIGHTS), FILTERED, VANDAL RESISTANT, STAINLESS STEEL ELECTRIC WATER COOLER WITH FRONT AND SIDE BUBBLER; 8 GPH, PROVIDE WITH 1-1/4" P-TRAPS; MCGUIRE #LFBV2165 WITH QUARTER TURN KEY CHROME PLATED BRASS ANGLE STOP; 115V/60HZ, 6 FLA, 370 WATTS. PROVIDE WITH IN WALL CARRIER KIT ELKAY #MLP200. ALTERNATE MODEL ELKAY #EZSTL8WSLK IF LEAD TIME ISSUES EXIST FOR LISTED MODEL.	2"	2"	1/2"	-
RD	JR SMITH #1340-CL-AD	CANOPY ROOF DRAIN WITH ADJUSTABLE EXTENSION, CAST IRON BODY, SECONDARY FLASHING CLAMP TO ACCOMMODATE MINIMUM 2" ROOF INSULATION. PROVIDE WITH UNDERDECK CLAMP, SUMP RECEIVER, AND CAST IRON DOME. COORDINATE WITH ROOF INSULATION BEFORE ORDERING AND ADJUST AS REQUIRED WITH ADDITIONAL EXTENSION AND FLASHING CLAMPS), SIZE PER PLANS. PROVIDE 90° ELBOW CONFIGURATION FOR CANOPY INSTALLATIONS.	-	-	-	-
DN	ZURN #Z199	DOWNSPOUT NOZZLE WITH NICKEL BRONZE BODY, DECORATIVE FACE OFF WALL FLANGE, AND BIRD SCREEN. SIZE PER PLANS.	-	-	-	-
WH	WOODFORD #B65	AUTOMATIC DRAINING, FREEZELESS, WALL HYDRANT WITH SINGLE CHECK HOSE CONNECTION ANTI-SIPHON VACUUM BREAKER, TEE KEY, HARDENED STAINLESS STEEL STEM, AND CHROME BOX AND DOOR.	3/4"	-	-	-
RH	WOODFORD #RHY1-MS	FREEZELESS ROOF HYDRANT WITH MOUNTING SYSTEM; BRASS NOZZLE WITH HOSE CONNECTION, 100 PSI MAX WORKING PRESSURE, AND 1/8" NPT DRAIN HOLE; CAST IRON HYDRANT SUPPORT AND UNDER DECK FLANGE, WELL SEAL, AND EPDM BOOT.	1/8"	-	1"	-

NOTES:
1. CONNECTION SIZES THAT ARE SHOWN ARE MINIMUM.
2. NO FLEXIBLE PIPING IS PERMITTED FOR ANY PLUMBING FIXTURE. NO EXCEPTIONS.
3. CONFIRM LEAD TIMES DO NOT CONFLICT WITH PROJECT SCHEDULE.

WATER HAMMER ARRESTER SCHEDULE

MARK	P.D.I. RATING	FIXTURE UNITS CAPACITY	MINIMUM PIPE SIZE	PCN/FIG. NO.	NOTES
WA	A	1 - 11	3/4"	5005	1,2,3
WB	B	12 - 32	1"	5010	1,2,3
WC	C	33 - 60	1"	5020	1,2,3
WD	D	61 - 113	1"	5030	1,2,3
WE	E	114 - 154	1"	5040	1,2,3
WF	F	155 - 330	1"	5050	1,2,3

NOTES:

1. PROVIDE ARRESTERS ETC., AS NOTED HEREIN AND PER STANDARD PDI WH201 AT EACH FIXTURE GROUP AND INDIVIDUAL FIXTURE. ARRESTERS SHALL BE AS MANUFACTURED BY JAY R. SMITH, OR APPROVED EQUAL. INSTALL ARRESTERS WHERE SHOWN. IF INDICATED. ARRESTERS MAY NOT BE GRAPHICALLY INDICATED. INSTALL ARRESTERS, ETC., CONCEALED BEHIND WALLS UNLESS OTHERWISE NOTED.

2. ARRESTERS SHALL BE STAINLESS STEEL BELLOWS TYPE CERTIFIED UNDER STANDARDS PDI-WH201 & ASSE-1010, SUPERSEDING SPECIFICATIONS; PISTON TYPE ARRESTERS ARE UNACCEPTABLE. ARRESTERS SHALL BE CONSTRUCTED ENTIRELY OF STAINLESS STEEL AND BE PRECHARGED AND PERMANENTLY SEALED AT THE FACTORY.

3. PROVIDE BALL VALVE (BV) BETWEEN SUPPLY PIPE & ARRESTER. ARRESTERS AND BV SHALL BE ACCESSIBLE. PROVIDE AP WHERE REQUIRED TO ACHIEVE ACCESS. ACCESS PANELS SHALL BE AS MANUFACTURED BY MIFAB OR APPROVED EQUAL, SERIES CAD-DW, CAD-PL OR MPFR FOR WALLS OR CEILINGS WITH 5/8" RECESSED FACE TO BE FILLED WITH TILE, DRYWALL, ETC., TO MATCH SURROUNDING SURFACE FINISHES. PROVIDE FIRE RATED ACCESS DOORS IN FIRE RATED CONSTRUCTION, REFER TO ARCHITECTURAL AND LIFE SAFETY PLANS FOR FIRE RATINGS OF WALLS, CEILINGS AND FLOORS.
INSTALL WATER HAMMER ARRESTERS AND ASSOCIATED TRIM IN UPRIGHT VERTICAL POSITION IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND THE INTERNATIONAL PLUMBING CODE, 2018 EDITION. EXPOSED PIPING BELOW LAVATORIES AND IN FINISHED SPACES SHALL BE CHROMIUM PLATED OR STAINLESS STEEL TUBING.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	S OR W	SANITARY OR WASTE PIPING
	V	SANITARY OR WASTE VENT PIPING
	ST	STORM PIPING
	CW	DOMESTIC COLD WATER PIPING
	HW	DOMESTIC HOT WATER PIPING (115° F NOMINAL)
	HWR	DOMESTIC HOT WATER RETURN PIPING (115° F NOMINAL)
	BV	BRONZE FULL PORT, TWO PIECE BALL VALVE, THREADED WITH UNION
	WHA	WATER HAMMER ARRESTER - BELLOWS TYPE (LAST LETTER INDICATES PDI RATING)
		ELBOW, PLAN VIEW (90°)
		ELBOW, PLAN VIEW (45°)
		ELBOW, TURNING DOWNWARD, PLAN VIEW
		ELBOW, TURNING UPWARD, PLAN VIEW
		BRANCH TEE OUT OF TOP OF PIPING, PLAN VIEW
		BRANCH TEE OUT OF BOTTOM OF PIPING, PLAN VIEW
		BRANCH TEE OUT OF SIDE OF PIPING, PLAN VIEW
		DRAINAGE WYE, PLAN VIEW
		DRAINAGE COMBINATION WYE AND ONE-EIGHTH BEND, PLAN VIEW
	FCO	CAST IRON FLOOR CLEANOUT, BRONZE PLUG, ROUND NICKEL BRONZE TOP
OR	WCO	CAST IRON WALL CLEANOUT TEE, BRONZE PLUG, WITH CHROME PLATED BRONZE FRAME & ACCESS COVER
	VTR	VENT THRU ROOF, STONEMAN VANDALPROOFVENT FLASHING ASSEMBLY WITH SKIRT
FD1/FD2	FD1/FD2	FLOOR DRAIN WITH CAST IRON DEEP SEAL TRAP & PRIMER TAP
	TP	TRAP PRIMER PIPING - TYPE L SOFT COPPER TUBING - NO FITINGS BELOW FLOOR - SLOPE TO DRAIN
AP OR AP	AP	ACCESS PANEL, RECESSED, FLUSH ENAMELED STEEL, LOCKING, FIRE RATED IN RATED CONSTRUCTION
1		PLUMBING KEYED NOTE
1 / P401		PLAN/SECTION LETTER OR DETAIL NUMBER/RISER DIAGRAM IDENTIFICATION SHEET NUMBER WHERE PLAN, SECTION, DETAIL OR RISER DIAGRAM IS DRAWN
	AFF	ABOVE FINISHED FLOOR - REFERENCE TO TOP OF FINISHED FLOOR ELEVATION
	DWV	DRAINAGE WASTE AND VENT
	TYP	TYPICAL AND/OR TYPICAL AS SHOWN
	UON	UNLESS OTHERWISE NOTED
	AC OR ABV. CLG.	ABOVE CEILING (GENERALLY INDICATES NOTED PIPING INSTALLED ABOVE CEILING)
	BF OR BEL. FLR.	BELOW FLOOR (GENERALLY INDICATES NOTED PIPING INSTALLED BELOW FLOOR)
		CONNECT TO EXISTING
		DEMO LIMIT

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2010007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/22
REVIEWED BY:	BAM
DRAWN BY:	BWU
DESIGNED BY:	BWU
PROJECT NUMBER:	5240368028

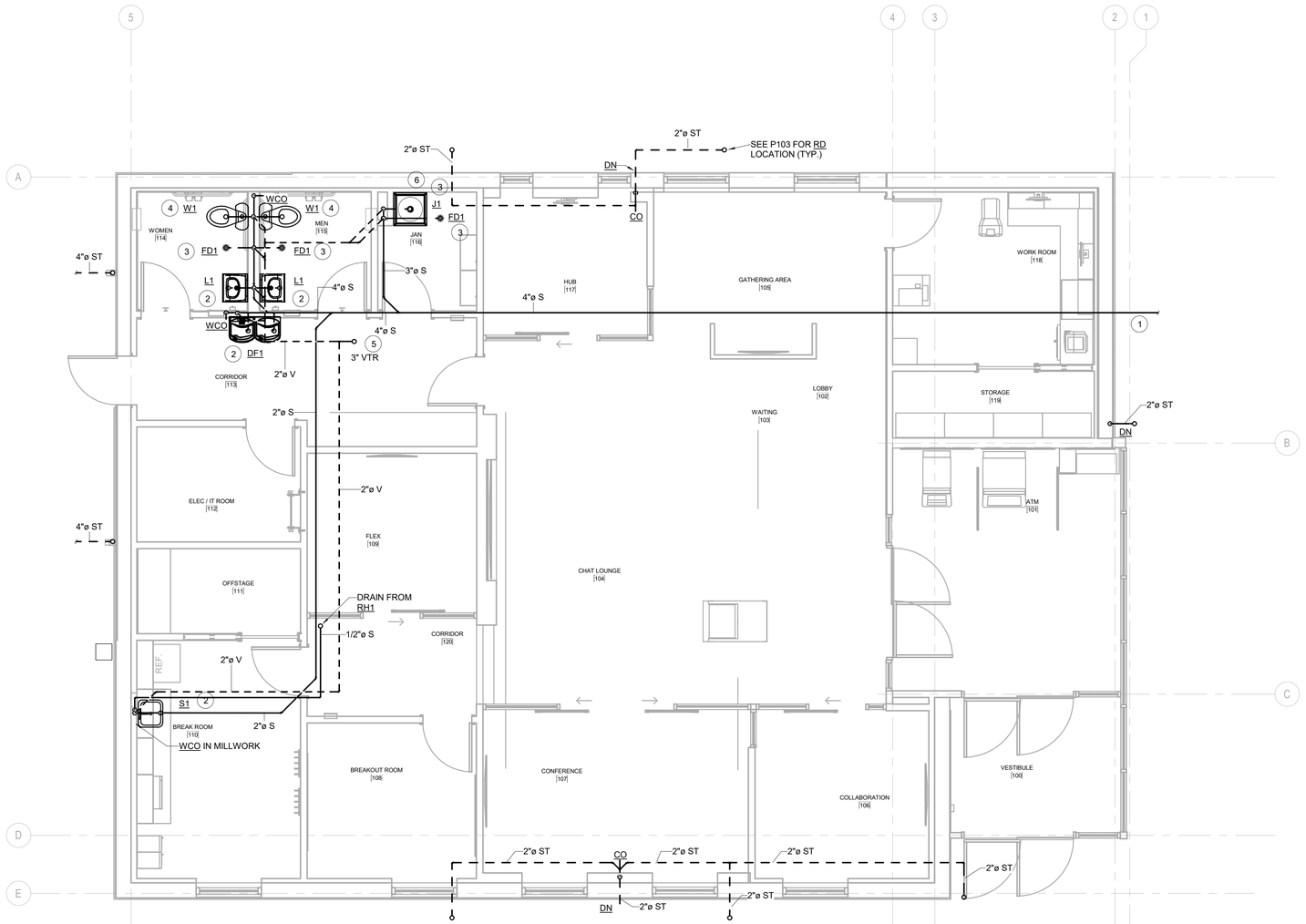
SHEET TITLE:

PLUMBING NOTES, LEGEND, ABBREVIATIONS

SHEET ID:

P001

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



WASTE AND VENT PLAN

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

PLUMBING GENERAL NOTES

1. NO PLUMBING SHALL PASS OVER IT ROOM.
2. CONTRACTOR TO COORDINATE ROUTING OF ALL PLUMBING LINES WITH EXISTING STRUCTURE.
3. ALL ABOVE GRADE SANITARY AND VENT PIPE SHALL BE NO-HUB CAST IRON.
4. X-RAY FLOOR PRIOR TO SAW CUTTING/CORING IN ORDER TO AVOID CONFLICTS IN AND BELOW FLOOR. NOTIFY ENGINEER OF ANY CONFLICTS WITH DESIGN INTENT.
5. MAINTAIN MINIMUM DISTANCE OF 10' FROM PLUMBING VENT TO ANY FRESH AIR INTAKE ON ROOF.
6. NO MECHANICAL TRAP PRIMERS ARE PERMITTED. REFER TO DETAIL 3/P301. ALL FLOOR DRAIN P-TRAPS TO BE SERVED BY GRAVITY TRAP PRIMERS.

PLUMBING KEYED NOTES

1. 4"S MAIN LINE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION. PROVIDE TWO-WAY CLEANOUT AS SHOWN ON CIVIL PLANS.
2. 2"S DROP; 2"V RISE FROM FIXTURE.
3. 3"S DROP; 2"V RISE FROM FIXTURE.
4. 4"S DROP; 2"V RISE FROM FIXTURE.
5. 3"VENT THRU ROOF. MAINTAIN MINIMUM 10' CLEARANCE FROM FRESH AIR INTAKE.
6. ROUTE ALL DRAIN LINES FROM WATER HEATER TO FLOOR DRAIN.

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/22
REVIEWED BY:	BAM
DRAWN BY:	BWU
DESIGNED BY:	BWU
PROJECT NUMBER:	**5240368028**

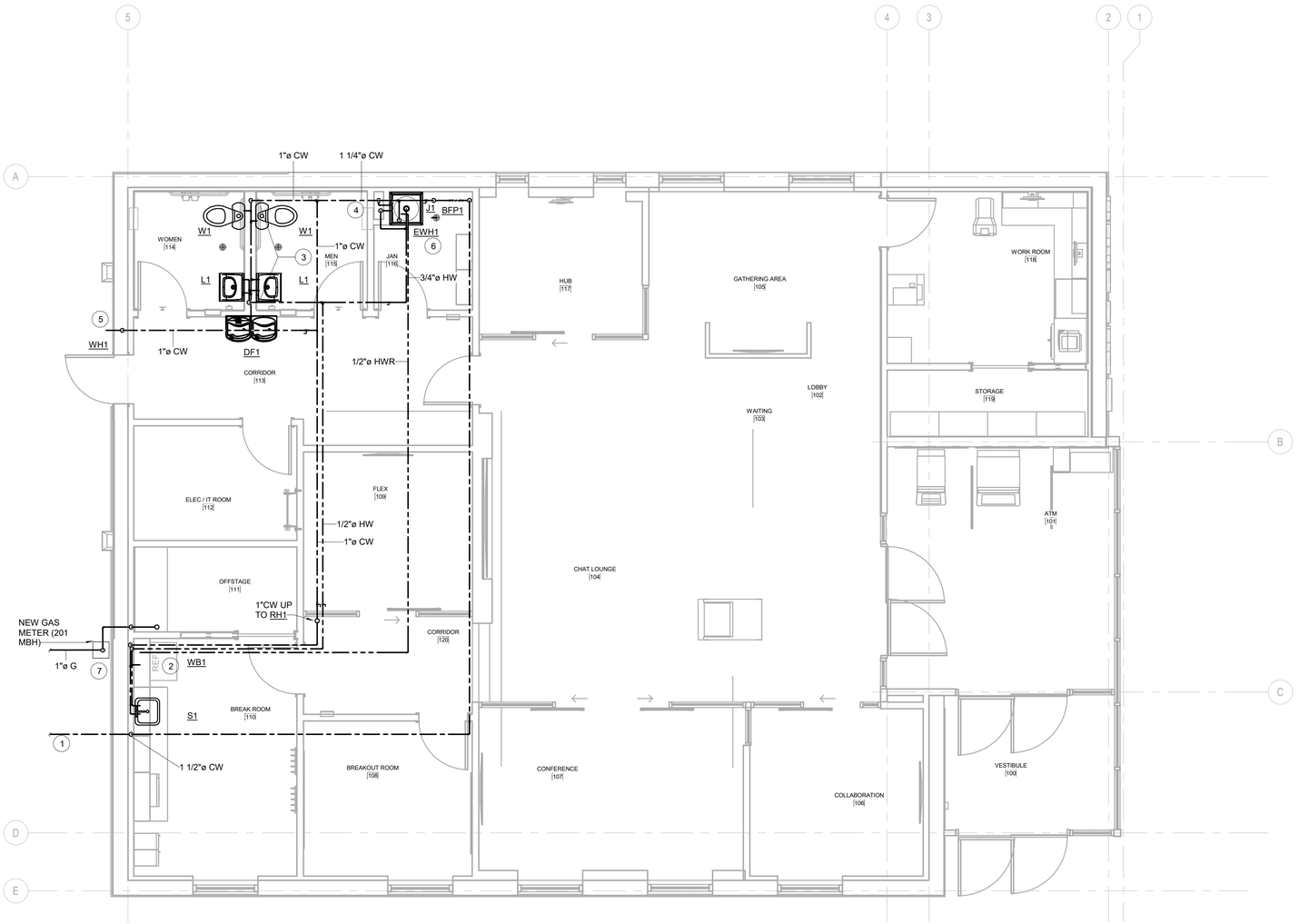
SHEET TITLE:

WASTE AND VENT PLAN

SHEET ID:

P101

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



N

1 P102

DOMESTIC WATER PLAN

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

PLUMBING GENERAL NOTES

1. NO PLUMBING SHALL PASS OVER IT ROOM.
2. CONTRACTOR TO COORDINATE ROUTING OF ALL PLUMBING LINES WITH STRUCTURE.
3. PROVIDE WATER HAMMER ARRESTORS, SIZED IN ACCORDANCE WITH TABLE ON P001, AND BALL VALVES AT EACH PIPING DROP TO PLUMBING FIXTURE(S).
4. PROVIDE VALVE TAGS AND VALVE CHART FOR ALL SHUT OFF VALVES WITHIN PNC SPACE. HANG VALVE CHART IN JANITORS CLOSET ON WALL NEAR LIGHT SWITCH.
5. NO FLEXIBLE PIPING PERMITTED FOR ANY PLUMBING FIXTURE. NO EXCEPTIONS.
6. NO MECHANICAL TRAP PRIMERS ARE PERMITTED. REFER TO DETAIL 3/P301. ALL FLOOR DRAIN P-TRAPS TO BE SERVED BY GRAVITY TRAP PRIMERS.

PLUMBING KEYED NOTES

1. 1-1/2"CW MAIN LINE. REFER TO CIVIL UTILITY PLAN FOR CONTINUATION.
2. 1/2"CW & HW DROP IN WALL ROUTE 1/2"CW TO WALL BOX. ROUTE 1/2"CW & HW TO SINK.
3. 1"CW & 1/2" HW DROP IN WALL. ROUTE 1/2" CW TO EACH WATER CLOSET. ROUTE 1/2" CW & 1/2"HW TO EACH LAVATORY. ROUTE 1/2"CW TO DRINKING FOUNTAIN.
4. 3/4"CW &HW DROP IN WALL TO JANITORS SINK.
5. 1"CW DROP TO WALL HYDRANT.
6. ROUTE 3/4"CW TO EWH1.
7. INCOMING GAS SERVICE LINE FOR MECHANICAL EQUIPMENT. REFER TO CIVIL DRAWINGS FOR CONTINUATION TO CONNECT INTO CITY MAIN LINE. ROUTE PIPING FROM THE METER, INTO THE BUILDING AND THEN UP TO THE ROOF. REFER TO P103 FOR CONTINUATION.

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/22
REVIEWED BY:	Checker
DRAWN BY:	Author
DESIGNED BY:	Designer
PROJECT NUMBER:	

5240368028

SHEET TITLE:

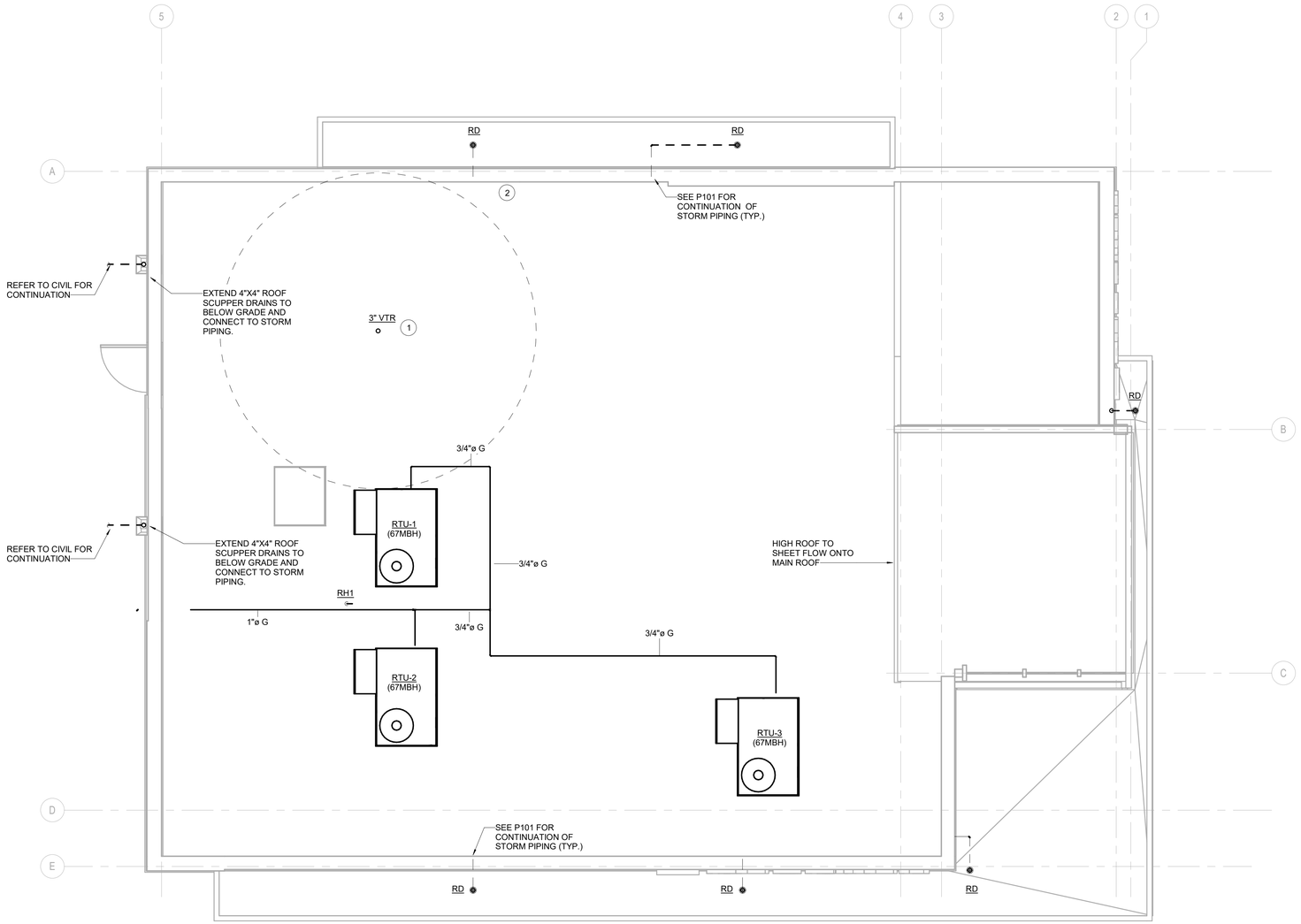
DOMESTIC WATER PLAN

SHEET ID:

P102

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

LOCATION: LEE'S SUMMIT, MO						
INCHES/HOUR: 3.25 (BASED ON STORM OF 1-HOUR DURATION AND A 100-YEAR RETURN PERIOD)						
ROOF AREA #	HORIZONTAL ROOF AREA (SQ. FT)	VERTICAL WALL AREA (SQ. FT)	50% VERTICAL WALL AREA (SQ. FT)	TOTAL AREA (SQ. FT)	GPM	MIN. DRAIN SIZE & (QTY)
ROOF 1	2432	452	226	2658	90	(2) 4"ø
ROOF 2	334	638	319	653	22	(1) 2"ø
ROOF 3	103	270	135	238	8	(1) 2"ø



N

T
P103

PLUMBING ROOF PLAN

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

PLUMBING GENERAL NOTES

1. CONTRACTOR TO COORDINATE ROUTING OF ALL PLUMBING LINES WITH STRUCTURE.
2. ALL ABOVE GRADE SANITARY, VENT, AND STORM PIPE SHALL BE NO-HUB CAST IRON.
3. GAS PIPING SHALL BE BLACK IRON PIPE ONLY. ANY EXPOSED PIPING SHALL BE PAINTED WITH TWO COATS OF RUST INHIBITING PAINT.

PLUMBING KEYED NOTES

1. 3"VENT THRU ROOF. MAINTAIN MINIMUM 10' CLEARANCE FROM FRESH AIR INTAKE.
2. GAS PIPING UP THRU ROOF. ROUTE PIPING AS CLOSE TO EXTERIOR WALL AS POSSIBLE.

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02/15/22

REVISIONS

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DATE ISSUED:	02/15/22
REVIEWED BY:	BAM
DRAWN BY:	BWU
DESIGNED BY:	BWU

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5240368028

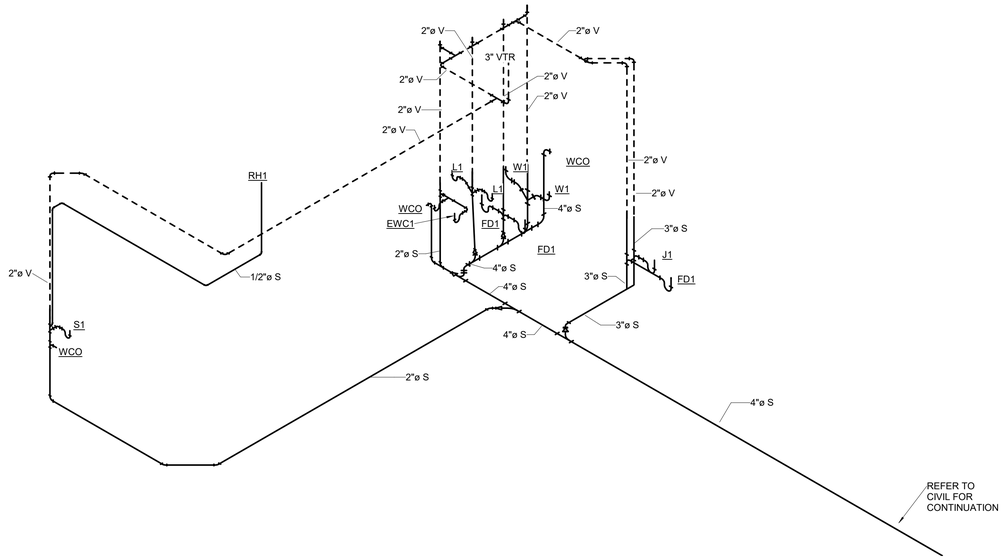
SHEET TITLE:

PLUMBING ROOF PLAN

SHEET ID:

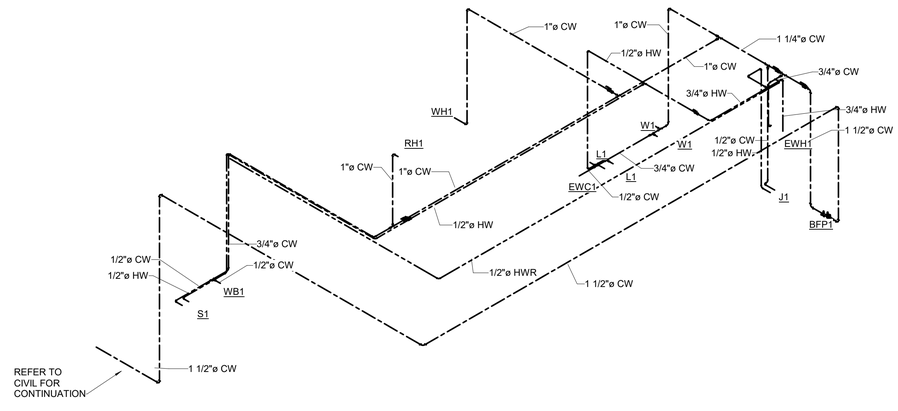
P103

PROJECT STATUS:
CONSTRUCTION DOCUMENTS



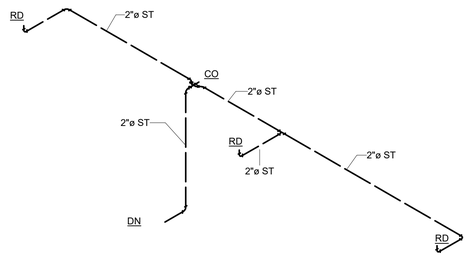
1 P201 DWV RISER DIAGRAM

SCALE:



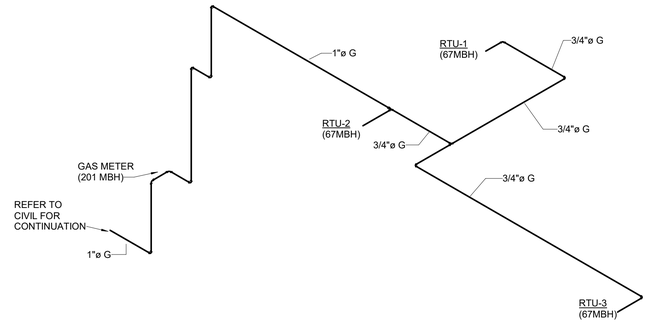
2 P201 DOMESTIC WATER RISER DIAGRAM

SCALE:



3 P201 STORM RISER DIAGRAM

SCALE:



4 P201 GAS RISER DIAGRAM

SCALE:

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
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LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/22
REVIEWED BY:	BAM
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DESIGNED BY:	BWU
PROJECT NUMBER:	

5240368028

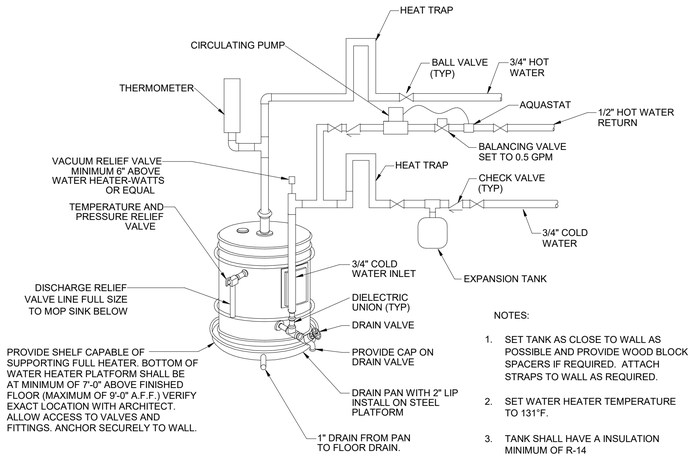
SHEET TITLE:

PLUMBING RISER DIAGRAMS

SHEET ID:

P201

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

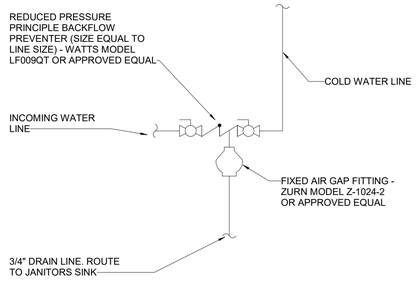


NOTES:

1. SET TANK AS CLOSE TO WALL AS POSSIBLE AND PROVIDE WOOD BLOCK SPACERS IF REQUIRED. ATTACH STRAPS TO WALL AS REQUIRED.
2. SET WATER HEATER TEMPERATURE TO 131°F.
3. TANK SHALL HAVE A INSULATION MINIMUM OF R-14

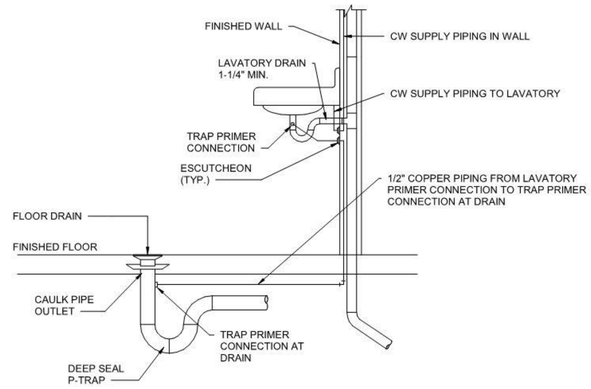
1 P301 ELECTRIC WATER HEATER DETAIL

SCALE: N.T.S.



2 P301 BACKFLOW PREVENTER DETAIL

SCALE: N.T.S.



NOTES:
1. PLUMBING CONTRACTOR SHALL PROVIDE 1/2" TRAP PRIMERS AT ALL FLOOR DRAINS.
2. TRAP PRIMER IS ZURN MODEL #Z1021 OR EQUAL.
3. MECHANICAL TRAP PRIMERS ARE NOT PERMITTED.

3 P301 TRAP PRIMER DETAIL

SCALE: N.T.S.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
BRETT A. METCALF
NUMBER PE-2018007866
PROFESSIONAL ENGINEER
02/15/22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/22
REVIEWED BY: Checker
DRAWN BY: Author
DESIGNED BY: Designer
PROJECT NUMBER:
5240368028

SHEET TITLE:

PLUMBING DETAILS

SHEET ID:

P301

PROJECT STATUS:
CONSTRUCTION DOCUMENTS

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH 2017 EDITION OF THE NATIONAL ELECTRICAL CODE, 2015 INTERNATIONAL BUILDING CODE AND ANY OTHER STATE OR LOCAL AUTHORITY HAVING JURISDICTION
2. ALL CONDUCTORS SHALL BE COPPER WITH THWN/THHN AND RATED FOR 600V UNLESS OTHERWISE INDICATED. TERMINATIONS SHALL BE RATED FOR 75 DEGREES C MINIMUM. DEVIATIONS SHALL COMPLY WITH NEC ARTICLE 110-14(c) FOR EXACT EQUIPMENT BEING PROVIDED.
3. MINIMUM CONDUCTOR SIZE: ALL CIRCUIT HOMERUNS AND ALL CONDUIT-AND-WIRE CIRCUITS SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. MINIMUM SIZE CONDUIT SHALL BE 3/4" DIAMETER.
5. ALL CONDUITS SHALL HAVE A SEPARATE GREEN GROUND CONDUCTOR FOR GROUNDING.
6. ALL WIRING SHALL BE IN EMT OR FLEXIBLE METALLIC CONDUIT; USE RIGID METALLIC CONDUIT OR LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT WHERE INSTALLED IN WET OR DAMP LOCATIONS. EMT FITTINGS SHALL BE STEEL. POT METAL OR DIE CAST TYPE SHALL NOT BE USED. CONNECTORS SHALL HAVE NYLON INSULATED THROATS. FITTINGS SHALL BE SET-SCREW TYPE.
7. ALL EMPTY CONDUITS SHALL CONTAIN A POLYOLEFIN PULL LINE, JET #232 OR APPROVED EQUAL.
8. PROVIDE LUGS AS REQUIRED FOR ALL ELECTRICAL EQUIPMENT TO ACCEPT THE SIZE AND NUMBER OF CONDUCTORS SHOWN IN THESE DOCUMENTS.
9. CONDUITS LEAVING OR ENTERING BUILDING SHALL BE SEALED PER NEC TO PREVENT ENTRANCE OF MOISTURE.
10. CONDUIT ROUTING AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED AND PER CODE CLEARANCES.
11. ALL WIRING AND CONDUIT SIZES SHALL BE BASED ON THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE.
12. WHERE DEMOLITION OF A PORTION OF AN EXISTING CIRCUIT RENDERS DOWNSTREAM EQUIPMENT INOPERATIVE, PROVIDE A NEW CIRCUIT TO RE-ESTABLISH SERVICE.
13. REUSE EXISTING CONDUIT WHERE POSSIBLE. PROVIDE NEW WIRING IN ALL CONDUIT.
14. ELECTRICAL CONTRACTOR SHALL CONCEAL ALL WIRES AND CONDUIT. NO SURFACE CONDUIT SHALL BE RUN UNLESS NOTED OTHERWISE.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
16. FOR COORDINATION PURPOSES, LIGHTING FIXTURES AND DEVICES MAY BE MOVED A MAXIMUM DISTANCE OF FIVE FEET, PRIOR TO INSTALLATION, AT NO COST TO THE OWNER, UPON INSTRUCTION BY THE ARCHITECT OR ENGINEER.
17. CONDUIT, LIGHT FIXTURES, AND OTHER COMPONENTS MAY BE SHOWN LARGER THAN ACTUAL SIZE. CONDUIT ROUTING IS SHOWN WITH AN EXAGGERATED SPACING FOR CLARITY. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALL CONTRACTORS TO ENSURE CONDUIT PLACEMENT DOES NOT CONFLICT WITH LOCATION OF SENSITIVE COMPONENTS SUCH AS LIGHT FIXTURES.
18. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES IN ELECTRICAL/MECHANICAL SPACES WITH EQUIPMENT, DUCTWORK AND PIPING.
19. UNLESS OTHERWISE NOTED, FOR LIGHTING AND RECEPTACLE HOMERUNS HAVING A TOTAL LENGTH OF 100' TO 200', USE #10 CONDUCTORS; FOR HOMERUNS HAVING A TOTAL LENGTH OF 200' OR GREATER, USE #8 CONDUCTORS.
20. LED LAY-IN LIGHT FIXTURES SHALL BE SUSPENDED FROM BUILDING STRUCTURE WITH ONE SUPPORT WIRE ON EACH SIDE.
21. PROVIDE THE TYPE OF MOUNTING HARDWARE AND TRIM NECESSARY FOR THE PROPER INSTALLATION OF SPECIFIED LIGHTING FIXTURES IN THE TYPE OF CEILING WHERE INSTALLED.
22. ALL LIGHTING SWITCHES SHALL BE LOCATED ON THE STRIKE SIDE OF THE DOOR. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN FOR SWITCHES.
23. ALL LAY-IN LIGHTING FIXTURES SHALL BE CONNECTED TO A BRANCH CIRCUIT JUNCTION BOX WITH A FLEXIBLE FIXTURE TAIL. A MAXIMUM OF FOUR FIXTURE TAILS SHALL BE CONNECTED TO A SINGLE JUNCTION BOX.
24. PROVIDE ACCESS DOORS IN WALLS AND CEILINGS WHERE ACCESS TO CONCEALED ELECTRICAL BOXES AND DEVICES IS REQUIRED.
25. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
26. WHERE RECEPTACLES ARE SHOWN BACK-TO-BACK ON A COMMON WALL, OFFSET THE TWO BOXES AT LEAST SIX INCHES.
27. LABELS SHALL BE PROVIDED FOR ALL RECEPTACLES AND LIGHTING SWITCHES, PROVIDE LABEL INDICATING PANEL NAME AND CIRCUIT SERVING RECEPTACLES OR SWITCH. INSTALL LABEL NEAR BOTTOM PORTION OF COVER PLATE. LABELS SHALL BE MADE USING T&B E-Z-CODE LABEL PRINTER SOFTWARE OR EQUAL. LABELS SHALL BE MADE OF CLEAR SELF-LAMINATING VINYL WITH APPROXIMATE 1/8 INCH LETTERING, COLOR BLACK.
28. WHERE PANELS OR DISCONNECT ARE MOUNTED ON GYP BOARD WALLS, PROVIDE ADDITIONAL BACKING IN WALLS PRIOR TO THE INSTALLATION OF THE GYPBOARD.
29. ALL AFFECTED PANELBOARDS SHALL BE PROVIDED WITH A NEW TYPEWRITTEN SCHEDULE SHOWING CIRCUIT NUMBERS, ADDED BREAKERS AND A COMPLETE DESCRIPTION OF EACH CIRCUIT, INCLUDING OFFICIAL ROOM NUMBER. PANELBOARDS, DISCONNECTS, ETC. SHALL BE PROVIDED WITH SUITABLE PHENOLIC NAMEPLATES.
30. PROVIDE 2 1/8" DEEP OUTLET BOX WITH SINGLE GANG DEVICE COVER, BLANK COVER PLATE AND 1" CONDUIT TO CEILING SPACE. TERMINATE CONDUIT WITH END BUSHING, UNLESS SHOWN OTHERWISE.
31. PROVIDE 3/4" FIRE RATED AC GRADE PLYWOOD, 8' HIGH BY X' WIDTH AS SHOWN ON PLANS.
32. EXPOSED CABLING (COMMUNICATION, FIRE ALARM AND SECURITY) IN AREAS WHERE NO CEILING EXISTS IS PROHIBITED. EXTEND EMT CONDUIT SLEEVE TO NEAREST ACCESSIBLE CEILING SPACE.
33. PROVIDE COMMUNICATION & VOICE/DATA CABLING, JACKS, FACE PLATES, ETC. UNLESS NOTED OTHERWISE
34. PROVIDE J-HOOKS FOR ALL LOW VOLTAGE CABLING ABOVE CEILING TO ROUTE BACK TO DATA ROOMS.
35. OWNER PROVIDE MATERIALS AND INSTALLATION OF SECURITY AND ACCESS CONTROL SYSTEM. CONTRACTOR TO PROVIDE NECESSARY ROUGH IN INCLUDING SINGLE GANG BOXES AND 3/4" CONDUIT STUBBED INTO CEILING.
36. CONTRACTOR SHALL PROVIDE U.L. APPROVED FIRESTOP SYSTEM IN ALL OPENINGS AROUND ELECTRICAL RACEWAY AND WIRING PENETRATIONS THROUGH FIRE-RESISTANCE-RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS. MATERIALS USED IN FIRESTOP SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. SEE N.E.C. 300 FOR ADDITIONAL REQUIREMENTS. COORDINATE WITH ARCHITECTURAL AND LIFE SAFETY PLAN TO ENSURE PROPER COMPLIANCE.
37. ALL SAFETY SWITCH DISCONNECTS SHALL HAVE A MINIMUM 3'-6" OF WORKING SPACE IN FRONT OF DEVICE; COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT LOCATIONS
38. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL, FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND SIZE OF EQUIPMENT WHICH IS PROVIDED BY OTHERS AND CONNECTED BY ELECTRICAL.
39. FINAL CONDUIT CONNECTIONS TO VAV UNITS, EXHAUST FANS,ETC. SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT. TYPICAL FOR EXTERIOR, DAMP AND WET LOCATIONS.
40. INTEGRATED EQUIPMENT RATINGS SHOWN ARE MINIMUMS. CONTRACTOR SHALL PROVIDE MANUFACTURER'S EQUAL OR NEXT HIGHER STANDARD RATINGS.
41. COORDINATE THE EXACT LOCATION OF ALL THERMOSTATS, STARTERS, DISCONNECTS, ETC. AND COORDINATE ALL REQUIREMENTS FOR CONTROL AND POWER WIRING WITH THE MECHANICAL CONTRACTOR OR THE TRADE PROVIDING THE EQUIPMENT.
42. THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR MODIFICATIONS OF THE EQUIPMENT ELECTRICAL SUPPLY BY THE EQUIPMENT TO BE INSTALLED.
43. ALL EQUIPMENT SHALL BE UL APPROVED AND SHIPPED TO THE SITE WITH UL LABEL.
44. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
45. WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE WITH CLEARLY IDENTIFIED REQUIRED ROUTINE MAINTENANCE ACTIONS, AND NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

ELECTRICAL LIGHTING LEGEND:

		MOUNTING HEIGHT ABOVE FINISHED FLOOR, UNLESS NOTED.
A HA-XX a		2' X 4' LED LIGHT FIXTURE ("A" = FIXTURE TYPE, "HA-XX" = CIRCUIT, "a" = SWITCH)
A HA-XX a		6" LED DOWNLIGHT ("A" = FIXTURE TYPE, "HA-XX" = CIRCUIT, "a" = SWITCH)
		EMERGENCY LIGHT FIXTURE (S). "NL" DENOTES FIXTURES TO BE NIGHT LIGHTS (UNSWITCHED) UNO PROVIDE UNSWITCHED HOT FROM CIRCUIT SERVING FIXTURE FOR EMERGENCY BALLAST
		LIGHTING FIXTURE, LED EXIT SIGN WITH SELF CONTAINED BATTERY PACK (DARKENED AREA INDICATES LIGHTED FACE) DIRECTIONAL ARROWS AS SHOWN ON FLOOR PLANS
$	48" TO TOP	SWITCH, 20A 120/277
$3	48" TO TOP	3-WAY SWITCH
S 3	48" TO TOP	WALL MOUNTED SWITCH WIRELESS CONTROL: LUTRON #PX-2B-GWH-01 | CW-1-WH
OS	48" TO TOP	WALL MOUNTED VACANCY MOTION SENSOR: LUTRON #MS-A102-WH | CW-1-WH
D a	48" TO TOP	WALL MOUNTED DIMMER KEYPAD WIRELESS CONTROL: LUTRON #PJ2-2BRL-GWH-L01 | CW-1-WH
OD a	48" TO TOP	WALL MOUNTED OCCUPANCY DIMMING SWITCH: LUTRON #MS-Z101-WH
M		CEILING MOUNTED OCCUPANCY/VACANCY SENSOR: LUTRON #LRF2-OCR2B-P-WH
PC		PHOTOCELL

ELECTRICAL POWER LEGEND:

10 USB	18" TO C.L.	WALL MOUNTED DUPLEX RECEPTACLE, NEMA 5-20R, 20A, 125V - GFCI(GROUND FAULT CIRCUIT INTERRUPTER) - SINGLE RECEPTACLE - QUAD RECEPTACLE (DOUBLE DUPLEX) - USB CHARGER COMBINATION, ALSO DENOTED BY "USB" - ISOLATED GROUND, ALSO DENOTED BY "IG" - TICK MARKS DENOTE EMERGENCY CIRCUIT (RED OUTLET) - "WP" DENOTES WEATHERPROOF - "CH" DENOTES COUNTER HEIGHT - "HR" DENOTES HORIZONTAL MOUNTING, ABOVE COUNTER HEIGHT - "#" DENOTES MOUNTING HEIGHT IN INCHES
	18" TO C.L.	SPECIAL PURPOSE RECEPTACLE, L5-30R TWIST LOCKS. - TICK MARKS DENOTE EMERGENCY CIRCUIT (RED OUTLET)
J CLNG		JUNCTION BOX, 4" SQUARE BY 1-1/2" DEEP, MINIMUM, PROVIDE CONDUIT TO ACCESSIBLE CEILING SPACE (U.N.O.) - "E" DENOTES ELECTRICAL CONNECTION TO SUIT FURNISHED EQUIPMENT - "J" DENOTES A CEILING MOUNTED JUNCTION BOX -TICK MARKS INDICATE WALL MOUNT, "#" DENOTES MOUNTING HEIGHT
FB A FB A X		FLOORBOX AND POKE THRU FLOOR BOX, REFER TO FLOORBOX SCHEDULE, 'X' DENOTE NUMBER OF DATA PORTS.
	48" TO TOP	EPO (EMERGENCY POWER OFF), COORDINATE WITH VENDOR DRAWINGS FOR TYPE
	78" TO TOP	PANELBOARD, 480/277 VOLT, SEE PANEL SCHEDULES
	78" TO TOP	PANELBOARD, 208/120 VOLT, SEE PANEL SCHEDULES
		DRY TYPE TRANSFORMER, 480/277 TO 208/120, SEE RISER/ONE LINE DIAGRAM
		DISCONNECT SWITCH, SEE EQUIPMENT SCHEDULE
		GROUND BUS BAR
		CONDUIT RUN, CONCEALED, WALL OR CEILING
		CONDUIT RUN, CONCEALED IN FLOOR, UNDERFLOOR OR UNDERGROUND
		CONDUIT STUB-UP
		CONDUIT CAPPED
M		DISCONNECT SWITCH, SEE EQUIPMENT SCHEDULE

COMMUNICATIONS LEGEND:

	18" TO C.L.	TELEPHONE/DATA OUTLET, (1)TELEPHONE AND (1)DATA DROP (U.N.O.)
	18" TO C.L.	DATA OUTLET, SINGLE DROP (U.N.O.)
	48" TO C.L.	TELEPHONE OUTLET, SINGLE DROP (U.N.O.) - "CH" DENOTES COUNTER HEIGHT - "#" DENOTES HEIGHT IN INCHES A.F.F.
		- CIRCLE DENOTES DEVICE IS LOCATED ON CEILING
		CEILING MOUNTED WIRELESS ACCESS POINT, PROVIDE (1)DATA CONNECTION

SYSTEMS LEGEND:

CR	48" TO C.L.	SECURITY SYSTEM, PROVIDE OUTLET BOX WITH PULL STRING STUBBED ABOVE ACCESSIBLE CEILING - "DC" DENOTES DOOR CONTACTOR, COORDINATE HEIGHT WITH VENDOR - "CR" DENOTES CARD READER - "ES" DENOTES ELECTRIC STRIKE - "I" DENOTES INTERCOM - "IR" DENOTES PASSIVE INFRARED DEVICE LOCATED ABOVE DOOR - "ML" DENOTES MAGNETIC LOCK, COORDINATE HEIGHT WITH VENDOR - "PR" DENOTES PARABIT READER - "DO" DENOTES ADA PUSHBUTTON - "RX" DENOTES REQUEST TO EXIT - "MD" DENOTES MOTION DETECTION DEVICE
PR CLNG		CEILING MOUNTED SECURITY SYSTEM DEVICE
		SECURITY CAMERA, PROVIDE JUNCTION BOX AND CONDUIT TO ACCESSIBLE CEILING
S		SPEAKER, PROVIDE JUNCTION BOX AND CONDUIT TO ACCESSIBLE CEILING
HUB	48" TO C.L.	HOLD UP BUTTON
MON	60" TO C.L.	SECURITY MONITOR, REQUIRED 120VAC DUPLEX RECEPTACLE PROVIDED BY ELECTRICAL CONTRACTOR
IND	48" TO C.L.	HOLD UP INDICATOR LIGHT
KEY	60" TO C.L.	ALARM KEYPAD
DMP	---	DMP ALARM CONTROL. MOUNTED IN TELECOM RACK
DVR	---	DIGITAL VIDEO RECORDER. MOUNTED IN TELECOM RACK.
SAFE	---	SAFE ALARM, PROVIDE (1)3/4" FROM SAFE TO ALARM CONTROL PANEL
ICI	---	ICI MACHINE, COORDINATE REQUIREMENTS WITH EQUIPMENT VENDOR
MC	---	MONEY CLIP, PROVIDE (1)22AWG/4 CONDUCTOR CABLE TO ALARM PANEL
TCR	---	TELLER CASH RECYCLER, PROVIDE (1)22AWG/4 CONDUCTOR CABLE TO ALARM PANEL
ATM	---	ATM ALARM, PROVIDE (1)3/4" FROM ATM TO ALARM CONTROL PANEL
IR	---	MOTION SENSOR, CORNER OR CEILING MOUNT, FURNISH AND INSTALL 22 GAUGE, 4 CONDUCTOR, STRANDED CABLE (TYPE "C" CABLE).

ABBREVIATIONS

AFF	——	ABOVE FINISHED FLOOR
AV	——	AUDIO VISUAL
C	——	CONDUIT
CB	——	MOLDED CASE CIRCUIT BREAKER
CH	——	COUNTER HEIGHT, ABOVE BACK SPLASH
CKT	——	CIRCUIT
CLG	——	CEILING
DE	——	DEMOLISH
EWH	——	ELECTRIC WATER HEATER
EX	——	EXISTING TO REMAIN
FACP	——	FIRE ALARM CONTROL PANEL
FB	——	FLOOR BOX
FTU	——	FAN TERMINAL UNIT
GFI	——	GROUND-FAULT CIRCUIT INTERRUPTER
MCB	——	MAIN CIRCUIT BREAKER
MLO	——	MAIN LUG ONLY
NEC	——	NATIONAL ELECTRICAL CODE
NF	——	NOT FUSED
NIC	——	NOT IN CONTRACT
RE	——	RELOCATE
TV	——	TELEVISION
UC	——	UNDER COUNTER
UNO	——	UNLESS NOTED OTHERWISE
WP	——	WEATHERPROOF

SHEET LIST

SHEET NO.	SHEET NAME	ISSUE DATE
E001	ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS	01/27/2022
ES101	ELECTRICAL SITE PLAN	01/27/2022
E101	ELECTRICAL LIGHTING PLAN	01/27/2022
E200	FLOORBOX AND CONDUIT ROUGH-IN PLAN	01/27/2022
E201	ELECTRICAL POWER & COMMUNICATIONS PLAN	01/27/2022
E301	ELECTRICAL SYSTEMS PLAN	01/27/2022
E302	ELECTRICAL SYSTEMS PLAN - ROOF	01/27/2022
E401	ELECTRICAL DETAILS	01/27/2022
E402	ELECTRICAL DETAILS	01/27/2022
E501	ELECTRICAL RISER DIAGRAM AND SCHEDULES	01/27/2022
E502	ELECTRICAL SCHEDULES	01/27/2022
E601	LIGHTING COMCHECK	01/27/2022

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITWOOD
NUMBER PE-2010007962
PROFESSIONAL ENGINEER
2-15-22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	DAC
DRAWN BY:	SB
DESIGNED BY:	SB

PROJECT NUMBER:
5240368028

SHEET TITLE:

ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS

SHEET ID:

E001

PROJECT STATUS:
PERMIT DOCUMENTS

1 ES107 ELECTRICAL SITE PLAN
1/16" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL SITE WORK TO BE COMPLETED BY THE LANDLORD PRIOR TO CONSTRUCTION.

SHEET NOTES:

1. REFER TO CIVIL DRAWINGS FOR TELECOM EASEMENT LOCATION. COORDINATE TELECOM HANDHOLE LOCATION AND ROUTE CONDUIT UNDERGROUND TO BUILDING COMMUNICATIONS ROOM. STUB CONDUIT MINIMUM 6" ABOVE FINISHED GRADE ALONG THE PLAN SOUTH WALL OF THE ELECTRICAL ROOM. SEE 1/E201 FOR LOCATION.
2. PROVIDE AND INSTALL (1) 3/4" RIGID CONDUIT FOR POWER CONNECTION TO DRIVE UP ATM.
3. PROVIDE AND INSTALL (1) 4" P.V.C. PIPE FOR ROUTING OF COMMUNICATIONS TO DRIVE UP ATM.
4. PROVIDE A 120V 20A ELECTRICAL CONNECTION WITH 3/4" RIGID CONDUIT TO ATM CANOPY. COORDINATE EXACT REQUIREMENTS WITH ATM VENDOR PRIOR TO ROUGH-IN.
5. COORDINATE EXACT LOCATION OF BOLLARDS WITH ARCHITECTURAL DRAWINGS. CIRCUIT SHALL BE CONTROLLED VIA PHOTOCELL FOR DUSK/DAWN OPERATION.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITWOOD
NUMBER PE-2010007962
PROFESSIONAL ENGINEER
2-15-22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	DAC
DRAWN BY:	SB
DESIGNED BY:	SB

PROJECT NUMBER:
5240368028

SHEET TITLE:

ELECTRICAL SITE PLAN

SHEET ID:

ES101

PROJECT STATUS:
PERMIT DOCUMENTS

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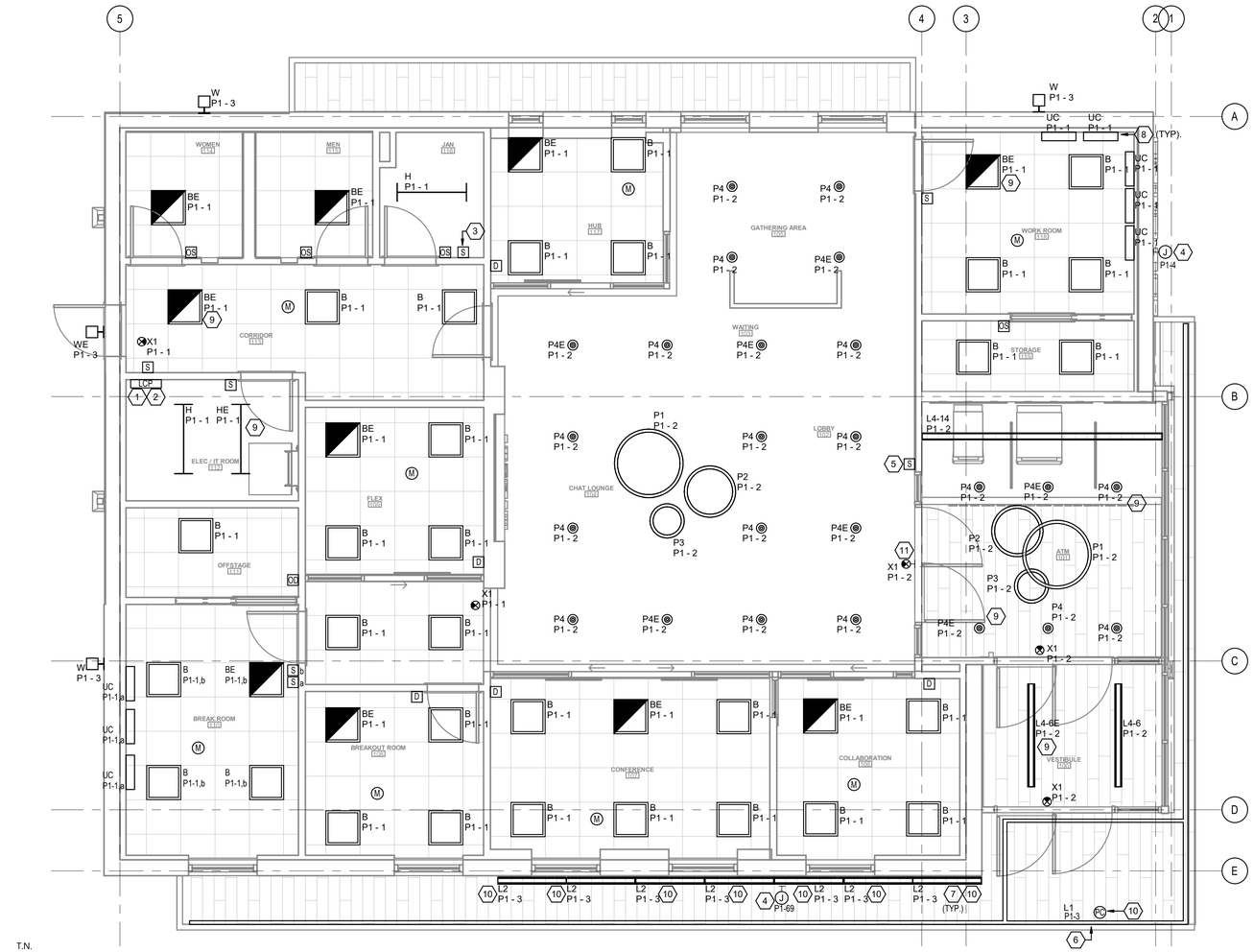

1 E101 LIGHTING PLAN

1/4" = 1'-0"

GENERAL NOTES:

A. LABELS SHALL BE PROVIDED FOR ALL LIGHTING SWITCHES. PROVIDE LABEL INDICATING PANEL NAME AND CIRCUIT SERVING SWITCH. INSTALL LABEL NEAR BOTTOM OF COVER PLATE. LABELS SHALL BE MADE OF CLEAR SELF-LAMINATING VINYL WITH APPROXIMATE 1/8 INCH LETTERING, COLOR BLACK.

B. ALL LIGHTING FIXTURES TO BE SUPPORTED FROM BUILDING STRUCTURE. FIXTURES SHALL NOT BE SUPPORTED FROM DROP CEILINGS.

SHEET NOTES:

1. LUTRON "EcoSystem" "Energi Savr Node" (ESN), A & B. MOUNT DEVICES ONE ABOVE THE OTHER ON WALL ABOVE "EcoSystem" TIMECLOCK REFERENCED IN NOTE 2. REFER TO DETAIL 1/E402 FOR WIRING REQUIREMENTS.
2. LUTRON "EcoSystem" TIMECLOCK. SURFACE MOUNT IN A STANDARD 4-GANG BOX BELOW ESN-A & B AT 48" A.F.F. REFER TO DETAIL 1/E402 FOR WIRING REQUIREMENTS.
3. MANUAL OVERRIDE SWITCH TO OVERRIDE ALL LUTRON NETWORKED LIGHTING CONTROLS AND ENERGIZE EXTERIOR SIGNS. FLUSH MOUNT IN A SINGLE GANG BOX AT 48" A.F.F. REFER TO DETAIL 1/E402 FOR WIRING REQUIREMENTS.
4. JUNCTION BOX FOR POWER TO PNC SIGNAGE AND/OR LOGO. COORDINATE EXACT LOCATIONS WITH SIGNAGE VENDOR PRIOR TO ROUGH-IN. PROVIDE 1"C FOR POWER. SIGNAGE SHALL BE CONTROLLED VIA PHOTOCELL FOR DUSK/DAWN OPERATION.
5. MANUAL OVERRIDE SWITCH TO OVERRIDE ALL NETWORKED LIGHTING CONTROLS AND ENERGIZE INTERIOR LIGHT FIXTURES IN LOBBY, WAITING AREA, GATHERING AREA, AND CORRIDORS. REFER TO DETAIL 1/E402.
6. CANOPY LINEAR DOWN LIGHT, MOUNTED RECESSED WITHIN CANOPY STRUCTURE, SEAMLESS LINEAR LIGHT. SEE LUMINAIRE SCHEDULE.
7. CANOPY MOUNTED LINEAR UP LIGHT. SEE LUMINAIRE SCHEDULE. TYPICAL FOR FIXTURE TYPE 'L2'.
8. CONCEAL FEEDERS FOR UNDERCABINET LIGHTING IN CABINET ABOVE IN A CLEAN WORKMANLIKE MANNER. TYPICAL OF ALL UNDERCABINET LIGHTING.
9. FIXTURES SHALL BE CIRCUITED AHEAD OF CONTROLS WITHIN AREA OF 24/7 ON OPERATION.
10. FIXTURES SHALL BE CONTROLLED VIA PHOTOCELL FOR DUSK/DAWN OPERATION.
11. PROVIDE WM WALL MOUNT OPTION FOR WALL MOUNTED EXIT SIGN. SEE LUMINAIRE SCHEDULE.

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WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITWOOD
NUMBER PE-2010007962
PROFESSIONAL ENGINEER
2-15-22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	DAC
DRAWN BY:	SB
DESIGNED BY:	SB

PROJECT NUMBER:
5240368028

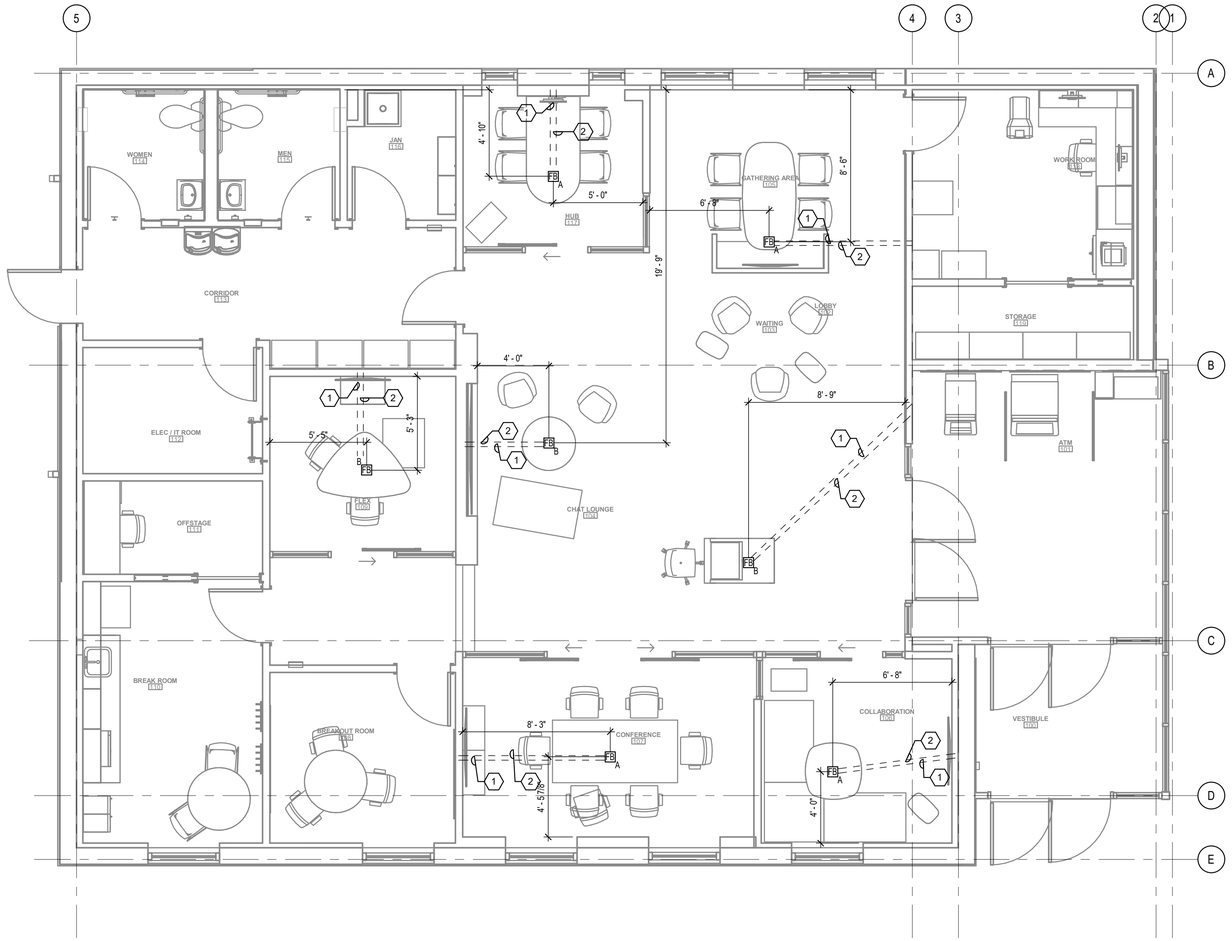
SHEET TITLE:

ELECTRICAL LIGHTING PLAN

SHEET ID:

E101

PROJECT STATUS:
PERMIT DOCUMENTS



T.N.

1 E200 FLOORBOX PLAN
1/4" = 1'-0"

GENERAL NOTES:

A. ALL DIMENSIONS SHALL BE CENTERED TO FLOOR-BOXES. ALL DIMENSIONS SHOWN ARE TAKEN FROM EXISTING WALLS OR THE CENTERLINE OF EXISTING COLUMNS.

B. THE DIMENSIONED LOCATION OF FLOOR BOXES IS PROVIDED FOR BIDDING PURPOSES ONLY. E.C. SHALL VERIFY THE EXACT LOCATION OF THE FLOORBOX WITH PNC PRIOR TO ROUGH-IN.

C. REFER TO FLOORBOX SCHEDULE ON SHEET E502 FOR SPECIFICATIONS, REQUIRED CONDUITS AND ADDITIONAL INFORMATION.

D. TRANSITION FROM PVC TO METAL CONDUIT NOT TO EXCEED 4" ABOVE SLAB.

SHEET NOTES:

1. PROVIDE (1) 1"C FOR POWER SECTION OF FLOOR BOX, STUB CONDUIT ABOVE ACCESSIBLE CEILING. COORDINATE STUB-UP LOCATIONS IN WALLS WITH G.C. PRIOR TO ROUGH-IN.

2. PROVIDE (1) 2"C FOR DATA SECTION OF FLOOR BOX, STUB CONDUIT ABOVE ACCESSIBLE CEILING. COORDINATE STUB-UP LOCATIONS IN WALLS WITH G.C. PRIOR TO ROUGH-IN.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
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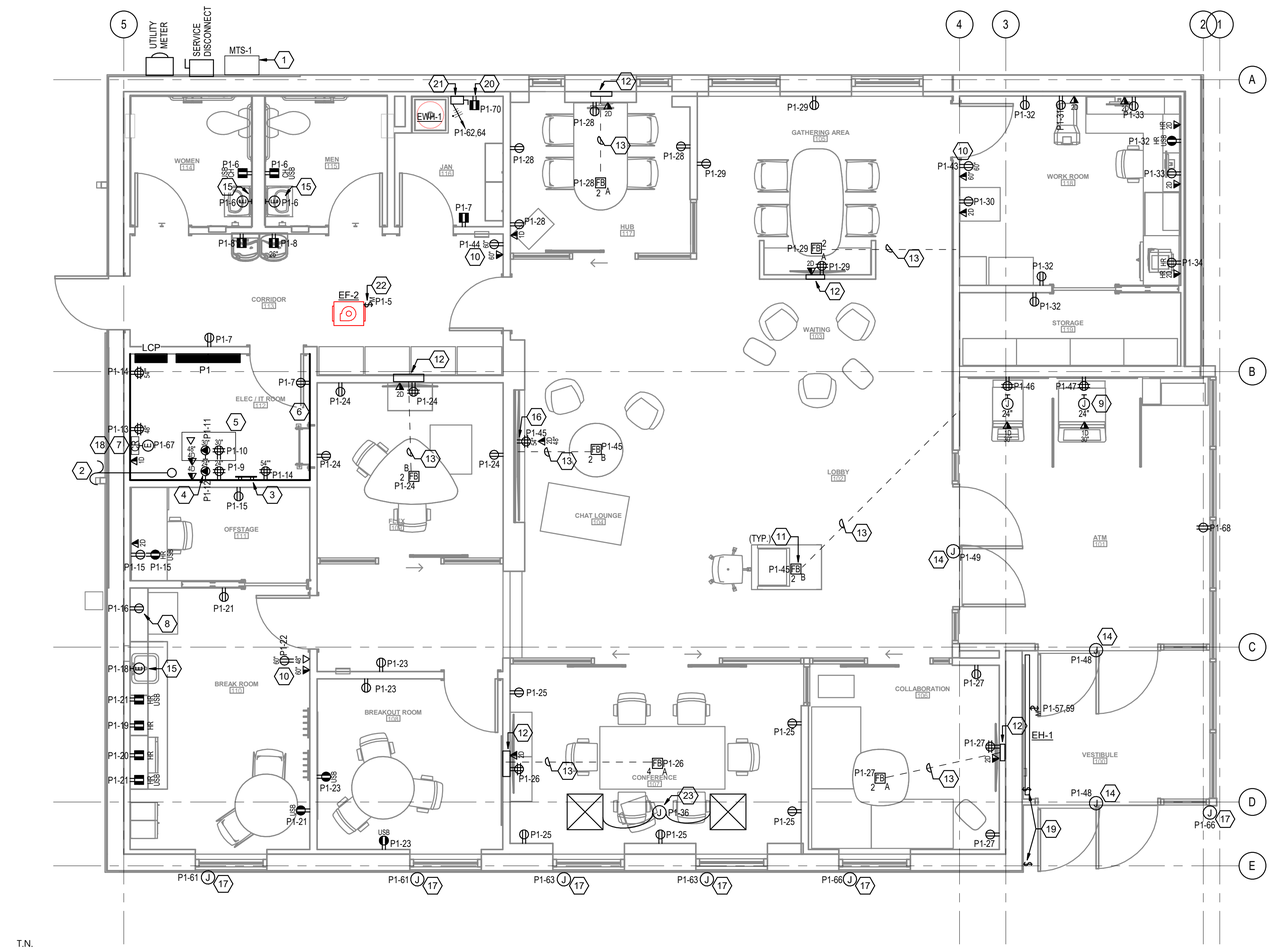
FLOORBOX AND CONDUIT ROUGH-IN PLAN

SHEET ID:

E200

PROJECT STATUS:
PERMIT DOCUMENTS



1 E201 POWER & DATA PLAN

1/4" = 1'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL POWER AND COMMUNICATIONS MODULAR FURNITURE BASE. COORDINATE INSTALLATION WITH MODULAR FURNITURE VENDOR FOR A COMPLETE SYSTEM.

B. LABELS SHALL BE PROVIDED FOR ALL RECEPTACLES AND LIGHTING SWITCHES. PROVIDE LABEL INDICATING PANEL NAME AND CIRCUIT SERVING RECEPTACLES OR SWITCH. INSTALL LABEL NEAR BOTTOM OF COVER PLATE. LABELS SHALL BE MADE OF CLEAR SELF-LAMINATING VINYL WITH APPROXIMATE 1/8 INCH LETTERING, COLOR BLACK.

C. MOUNT RECEPTACLES WITH THE LONG DIMENSION OF THE DEVICE VERTICAL AND THE U-SHAPED GROUND POSITION AT BOTTOM EXCEPT WHERE SPECIFICALLY NOTED ON THE PLANS TO BE MOUNTED WITH THE LONG DIMENSION OF THE DEVICE HORIZONTAL (WITH THE U-SHAPED GROUND POSITION ON THE RIGHT). MOUNT ADJACENT SYSTEMS DEVICES TO MATCH RECEPTACLE MOUNTING CONFIGURATION.

SHEET NOTES:

1. NEW MANUAL TRANSFER SWITCH 'MTS-1'. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
2. NEW (2) 4"C WITH WIDE SWEEP RADIUS ELBOWS AND PULL STRINGS FROM TELEPHONE UTILITY EASEMENT TO THE PLYWOOD BOARD IN ELEC/IT ROOM. CONDUIT SHALL BE STUBBED UP 6" A.F.F.
3. GROUND BAR FOR DATA RACK AND TELEPHONE BACKBOARD. PROVIDE #6G FROM GROUND BAR TO GROUND BUS IN PANEL 'P1'.
4. PROVIDE (2) NEMA L5-30R SINGLE RECEPTACLES WITH (2)#10, #10G, 3/4"C. EACH TO PANEL 'P1'. CIRCUIT AS INDICATED. MOUNTING HEIGHTS SHOWN ON PLAN.
5. IT RACK. COORDINATE EXACT REQUIREMENTS PRIOR TO ROUGH-IN.
6. 3/4" FIRE RATED AC GRADE PLYWOOD BACKBOARDS ALONG ALL WALLS FROM FLOOR TO CEILING. LEAVE FIRE RATING STAMP UNPAINTED AND FACING OUTWARD.
7. ATM VESTIBULE DOOR CARD READER ACCESS CONTROL PANEL. THE COMPLETE OPERATING CARD ACCESS SYSTEM SHALL INCLUDE INSTALLATION AND WIRING OF ALL REQUIRED SYSTEM COMPONENTS. COORDINATE ADDITIONAL REQUIREMENTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. COORDINATE WITH PNC FOR FINAL LOCATION OF ALL SYSTEM COMPONENTS PRIOR TO ROUGH-IN OF ANY WORK FOR THIS SYSTEM. REFER TO DETAIL 2/E-401.
8. PROVIDE GFI CIRCUIT BREAKER FOR CIRCUIT SERVING WIRING DEVICE. REFER TO PANEL SCHEDULES ON E501.
9. 3/4"C WITH PULLSTRING FOR ATM SECURITY WIRING AND TERMINATE AT THE PLYWOOD BACKBOARD IN ELEC/IT 112.
10. RECEPTACLE FOR SECURITY MONITOR. REFER TO E301 FOR SECURITY SYSTEM PLAN.
11. FLUSH FLOORBOX. REFER TO E502 FOR FLOORBOX SCHEDULE FOR ADDITIONAL INFORMATION. TYPICAL FOR ALL FLOOR BOXES.
12. PROVIDE LEGRAND CHIEF #PAC525 IN-WALL BOX OR EQUAL FOR POWER AND DATA SHOWN AT WALL. PROVIDE (2) DUPLEX RECEPTACLES FOR POWER, AND (2)CAT6 DATA JACKS WITH 3/4"C STUBBED TO ABOVE CEILING PLENUM FOR DATA. COORDINATE EXACT HEIGHT AND LOCATIONS WITH AV VENDOR AND ARCHITECT.
13. UNDERGROUND CONDUIT(S) FROM FLUSH BOX TO WALL. REFER TO E200 FOR CONDUIT SIZES AND ADDITIONAL INFORMATION.
14. PROVIDE CIRCUIT FOR POWERED DOOR MOTOR AND CONTROLS. COORDINATE FINAL CONNECTIONS WITH HARDWARE VENDOR.
15. ELECTRICAL CONNECTION FOR AUTOMATED PLUMBING FIXTURES. FIELD COORDINATE J-BOX AND FINAL MOUNTING LOCATION WITH PLUMBING CONTRACTOR. BOX TO BE CONCEALED AS MUCH AS POSSIBLE.
16. MOUNT POWER AND DATA RECEPTACLES BEHIND TV.
17. PROVIDE JUNCTION BOX AND 120V POWER FOR MOTORIZED ROLL DOWN SHUTTERS. COORDINATE FINAL LOCATION WITH ARCHITECTURAL DRAWINGS.
18. PROVIDE 120V, 20A ELECTRICAL CONNECTION FOR ACCESS CONTROL PANEL.
19. PROVIDE KEYED SWITCH FOR VESTIBULE STORE FRONT. MAKE CONNECTIONS TO ROLL DOWN GATE AS NECESSARY.
20. PROVIDE RECEPTACLE FOR RECIRCULATING PUMP. COORDINATE MOUNTING LOCATION WITH MECHANICAL CONTRACTOR.
21. EWH-1 DISCONNECT: 30A FRAME, 3-POLE, NON-FUSED.
22. DISCONNECT PROVIDED WITH EQUIPMENT. COORDINATE FINAL ELECTRICAL CONNECTIONS WITH MECHANICAL CONTRACTOR.
23. PROVIDE 120V ELECTRICAL CONNECTION FOR VAV-DIFFUSERS. LOCATE POWER MODULE/TRANSFOMER IN AN ACCESSIBLE LOCATION ABOVE CEILING. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITWOOD
NUMBER PE-2010017962
PROFESSIONAL ENGINEER
2-15-22

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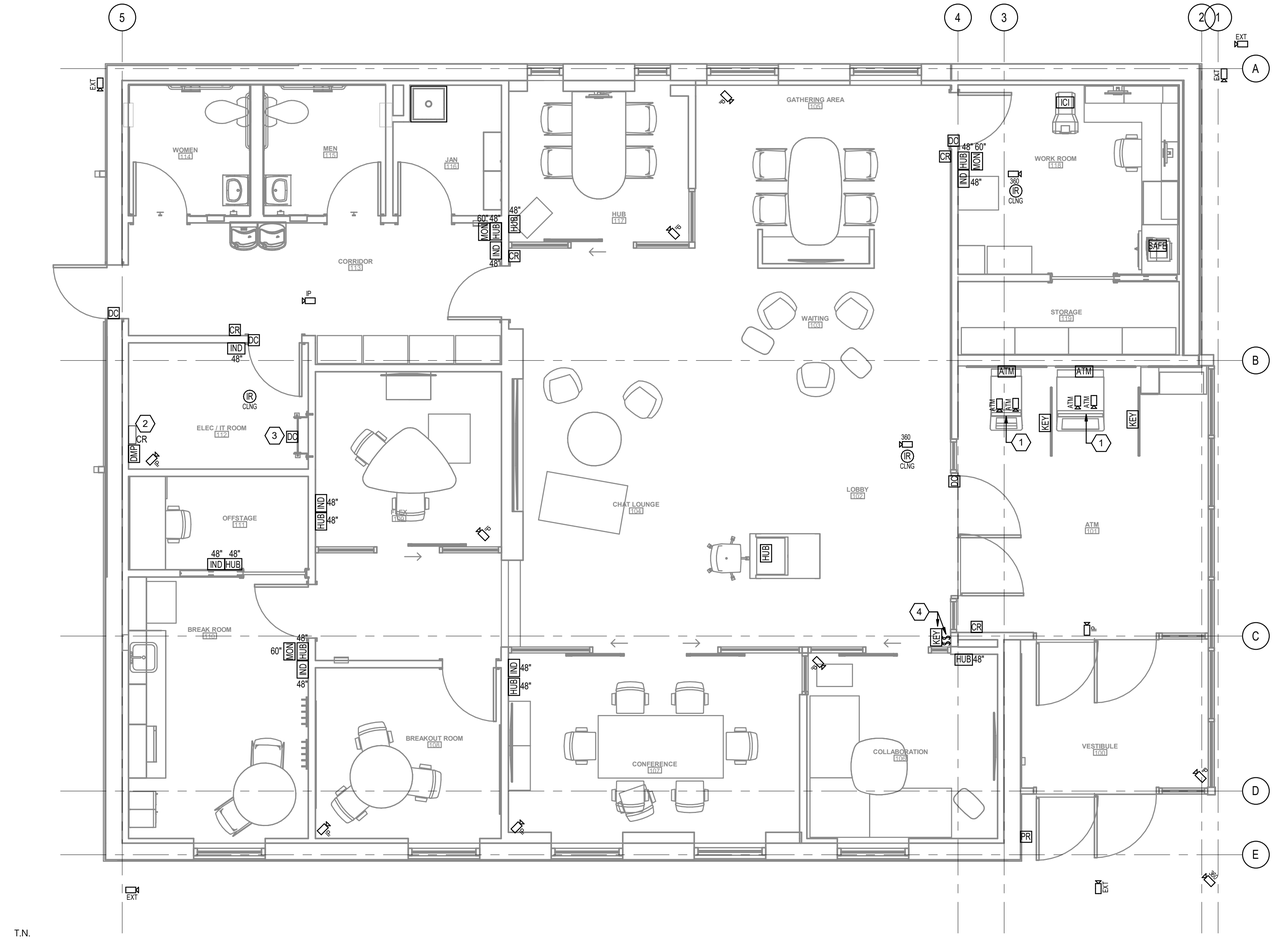
ELECTRICAL POWER & COMMUNICATIONS PLAN

SHEET ID:

E201

PROJECT STATUS:
PERMIT DOCUMENTS



1 E301 SYSTEMS PLAN
1/4" = 1'-0"

GENERAL NOTES:

A. CCTV CAMERAS, DVR(S), MONITORS, SECURITY EQUIPMENT AND ASSOCIATED WIRING SHALL BE PROVIDED AND INSTALLED BY SECURITY VENDOR. THE E.C. SHALL PROVIDE AND INSTALL ALL REQUIRED RACEWAYS AND BOXES FOR THE SECURITY EQUIPMENT. THE E.C. SHALL PROVIDE POWER WHERE REQUIRED. THE E.C. SHALL COORDINATE FINAL LOCATIONS OF EQUIPMENT AND ALL WORK WITH THE SECURITAS INSTALLER.

B. COORDINATE CEILING MOUNTED EQUIPMENT WITH LIGHT FIXTURE AND MECHANICAL DIFFUSER LOCATIONS PRIOR TO ROUGH-IN.

SHEET NOTES:

1. ATM SECURITY WIRING SHALL BE ROUTED THROUGH JUNCTION BOX AS SHOWN ON E201.
2. ATM VESTIBULE DOOR CARD READER ACCESS CONTROL PANEL. THE COMPLETE OPERATING CARD ACCESS SYSTEM SHALL INCLUDE INSTALLATION AND WIRING OF ALL REQUIRED SYSTEM COMPONENTS. COORDINATE ADDITIONAL REQUIREMENTS WITH SECURITY VENDOR PRIOR TO ROUGH-IN. COORDINATE WITH PNC FOR FINAL LOCATION OF ALL SYSTEM COMPONENTS PRIOR TO ROUGH-IN OF ANY WORK FOR THIS SYSTEM. REFER TO DETAIL 2/E-401.
3. DOOR CONTACT TO BE INSTALLED ON ROOF HATCH.
4. 3-WAY TOGGLE MODE SWITCH. SEE DETAIL 4/E402 FOR MORE DETAILS. SECURITY ALARM KEYPAD AND 3-POSITION TOGGLE SWITCH SHALL BE STACKED.

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PNC

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GROUND UP BRANCH

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WEST PRYOR DEVELOPMENT, LOT 9A
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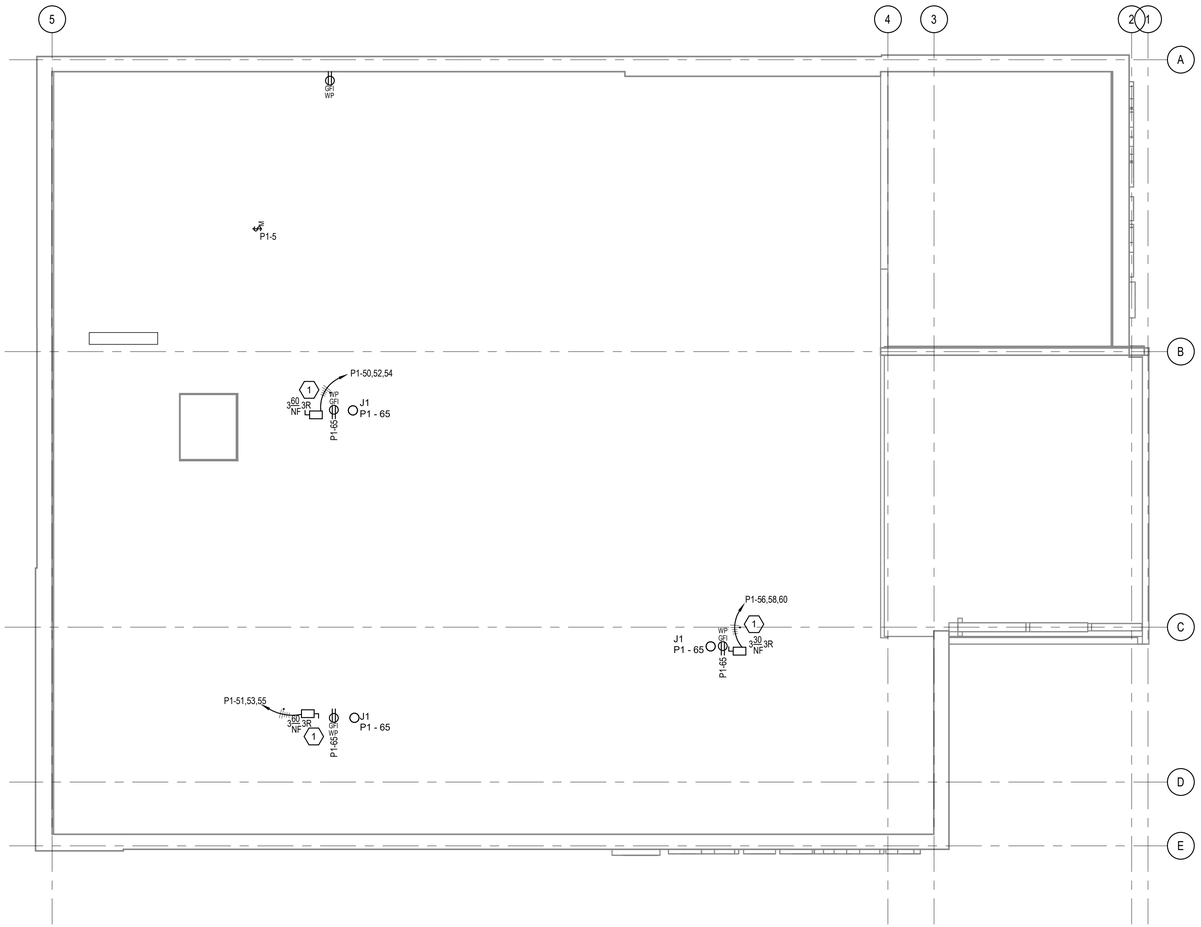

T.N.

1 / E302 SYSTEMS ROOF PLAN

1/4" = 1'-0"

GENERAL NOTES:

A. REFER TO MECHANICAL PLANS FOR EXACT EQUIPMENT LOCATION AND ADDITIONAL INFORMATION. REFER TO E501 FOR MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.

SHEET NOTES:

1. ROOFTOP UNIT DISCONNECTS SHALL BE MOUNTED ON UNISTRUT FRAMING. REFER TO DETAIL 05/E401 FOR ADDITIONAL INFORMATION.

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PROJECT ADDRESS:
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WEST PRYOR DEVELOPMENT, LOT 9A
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LEE'S SUMMIT, MO 64081

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ELECTRICAL SYSTEMS PLAN - ROOF

SHEET ID:

E302

PROJECT STATUS:
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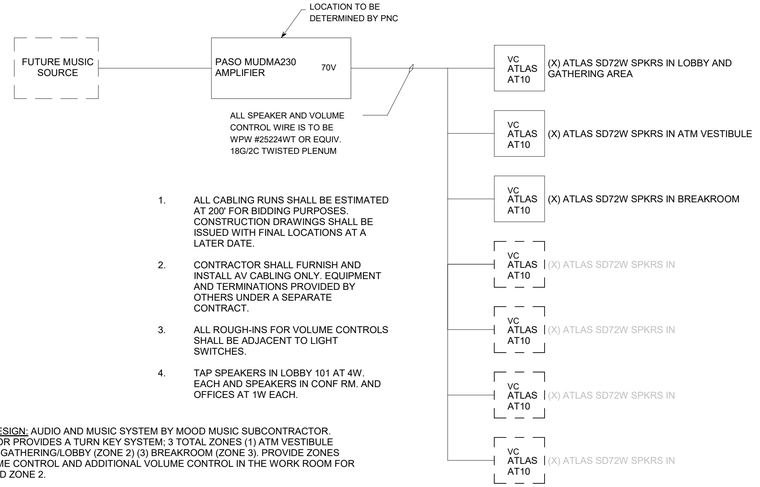
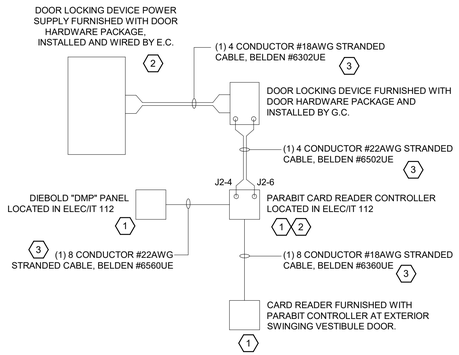


1. ALL CABLING RUNS SHALL BE ESTIMATED AT 200' FOR BIDDING PURPOSES. CONSTRUCTION DRAWINGS SHALL BE ISSUED WITH FINAL LOCATIONS AT A LATER DATE.
2. CONTRACTOR SHALL FURNISH AND INSTALL AV CABLING ONLY. EQUIPMENT AND TERMINATIONS PROVIDED BY OTHERS UNDER A SEPARATE CONTRACT.
3. ALL ROUGH-INS FOR VOLUME CONTROLS SHALL BE ADJACENT TO LIGHT SWITCHES.
4. TAP SPEAKERS IN LOBBY 101 AT 4W. EACH AND SPEAKERS IN CONF RM. AND OFFICES AT 1W EACH.

BASIS OF DESIGN: AUDIO AND MUSIC SYSTEM BY MOOD MUSIC SUBCONTRACTOR. CONTRACTOR PROVIDES A TURN KEY SYSTEM; 3 TOTAL ZONES (1) ATM VESTIBULE (ZONE 1) (2) GATHERING/LOBBY (ZONE 2) (3) BREAKROOM (ZONE 3). PROVIDE ZONES WITH VOLUME CONTROL AND ADDITIONAL VOLUME CONTROL IN THE WORK ROOM FOR ZONES 1 AND ZONE 2.

1 E401 AUDIO/BACKBONE SINGLE LINE DIAGRAM

SCALE: N.T.S



NUMBERED NOTES

1. DIEBOLD FURNISHES AND INSTALLS DEVICE AND MAKES WIRE TERMINATIONS.
2. E.C. FURNISHES AND INSTALLS 120VAC POWER. REFER TO E-201.
3. LVC FURNISHES AND INSTALLS LOW VOLTAGE CABLE.

2 E401 CARD READER/SECURITY INTERFACE

SCALE: N.T.S

BOX #-OUTLET

NOTES:

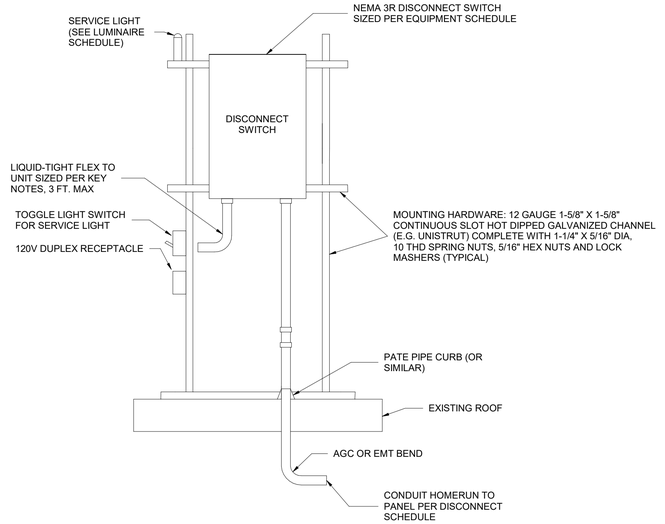
1. CABLE MARKERS-PANDUIT SELF LAMINATING TYPE PSWM. INDICATE THUS.
   EXAMPLE: "001-D1"
   "001-D2"
   "001-V1"
   "015-TV"
   IDENTIFY EACH CABLE SEGMENT AT EACH END.
2. LAMINATED NAMEPLATE-SIMILAR TO ABOVE-SEE DETAIL.
3. SUBMIT LISTING OF NAMEPLATES FOR APPROVAL.

3 E401 CABLE MARKER DETAIL

SCALE: N.T.S

4 E401 GROUND BAR DETAIL

SCALE: N.T.S



5 E401 ROOF DISCONNECT SWITCH DETAIL

SCALE: N.T.S

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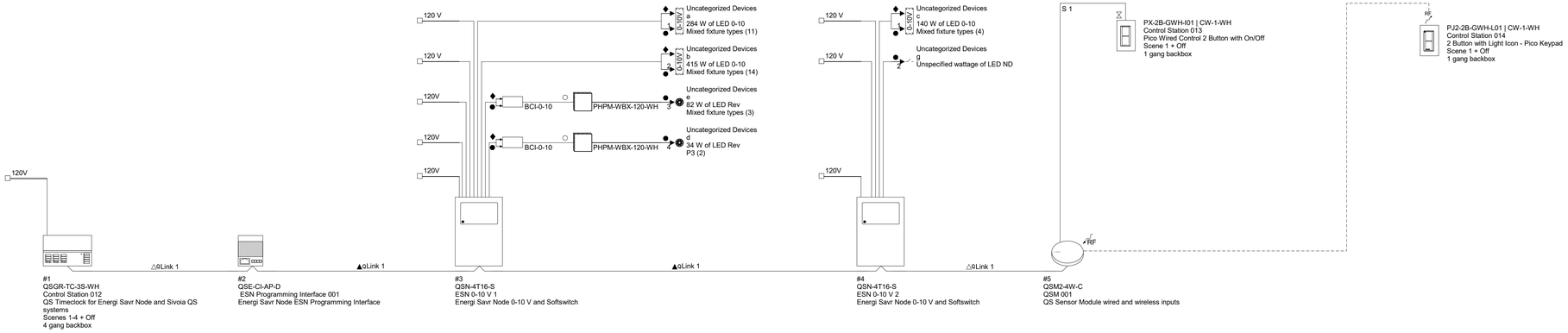


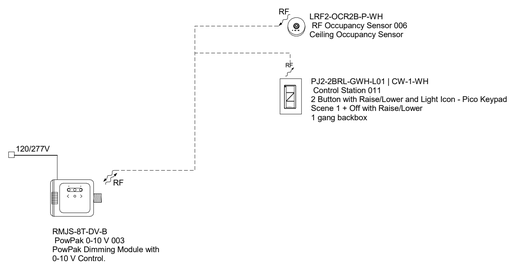
1 E402 LIGHTING CONTROL SYSTEM WIRING DIAGRAM

SCALE: N.T.S

GENERIC LIGHTING CONTROL SYSTEM NOTES

1. ALL LUTRON LIGHTING CONTROL SYSTEM COMPONENTS ARE PNC FURNISHED THRU PNC'S LIGHTING VENDOR, VILLA LIGHTING, CONTACT: MATT KAESTNER, 314-633-0456, matt.kaestner@villalighting.com, EXCEPT FOR THE LOW VOLTAGE CABLES, WHICH SHALL BE BY E.C. PNC IS RESPONSIBLE FOR ORDERING AND PAYMENT OF THE LUTRON LIGHTING CONTROL SYSTEM.
2. THE E.C. SHALL PROVIDE VENDOR WITH SHIPPING ADDRESS TO CONTRACTOR'S WAREHOUSE. LIGHTING CONTROL SYSTEM SHALL NOT BE SHIPPED DIRECTLY TO SITE.
3. THE E.C. IS RESPONSIBLE FOR ACCEPTANCE AND STORAGE OF THE LIGHTING CONTROL SYSTEM AS WELL AS LABOR AND MATERIAL COSTS ASSOCIATED WITH INSTALLATION AND WIRING.
4. THE QS CONTROL LINK AND THE EcoSystem BOTH HAVE A FREE WIRING TOPOLOGY (DAISY CHAIN, T-TAP, ETC). THE SYSTEM WIRING ILLUSTRATED BY THIS DIAGRAM HAS BEEN LAID OUT TO ENSURE APPROPRIATE POWER TO EACH DEVICE. IF, FOR ANY REASON, THE SYSTEM IS TO BE WIRED DIFFERENTLY THAN WHAT IS SHOWN, CONFIRM ALL DEVICE POWER REQUIREMENTS ARE MET.
5. MAIN EXHAUST FAN (EF-1) TO BE CONTROLLED FROM LUTRON PANEL.

INSTALLATION OF LIGHTING CONTROL COMPONENTS SHALL COMPLY WITH MANUFACTURERS INSTRUCTIONS AND REQUIREMENTS

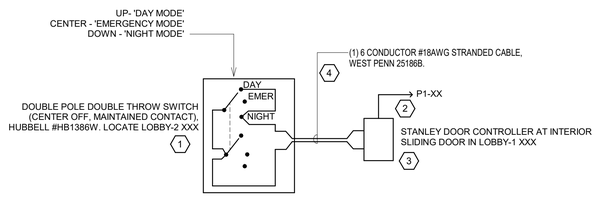


2 E402 TYPICAL DIMMING CONTROLS DIAGRAM

SCALE: N.T.S

3 E402 TYPICAL MOTION SWITCH CONTROLS DIAGRAM

SCALE: N.T.S



KEY NOTES

1. E.C. FURNISHES SWITCH AND MAKES LOW VOLTAGE TERMINATIONS.
2. E.C. FURNISHES AND INSTALLS 120VAC POWER. REFER TO E-201.
3. STANLEY FURNISHES AND INSTALLS SLIDING DOOR AND CONTROLLER STANLEY MAKES ALL LOW VOLTAGE TERMINATIONS TO STANLEY DOOR CONTROLLER.
4. E.C. FURNISHES AND INSTALLS LOW VOLTAGE CABLE.

SEQUENCE OF OPERATION

DAY OPERATION:
ALL SENSORS OPERATE

NIGHT OPERATION:
SENSOR ON THE LOBBY-1 XXX SIDE OF THE DOOR IS DISABLED.
SENSOR ON THE LOBBY-1 XXX SIDE OF THE DOOR OPERATES NORMALLY.

EMERGENCY OPERATION:
SENSORS ON BOTH SIDES OF THE DOOR ARE DISABLED.

4 E402 SLIDING DOOR DAY/NIGHT/EMERGENCY CONTROL

SCALE: N.T.S

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GROUND UP BRANCH

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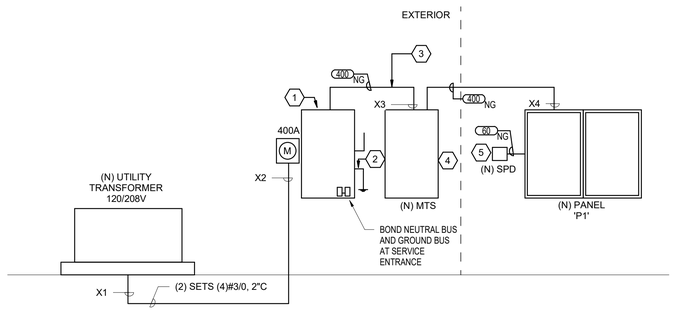

1 / E501 ONE-LINE DIAGRAM NEW CONSTRUCTION

SCALE: N.T.S

GENERAL NOTES:

A. ALL FEEDER CONDUCTORS SHALL BE SIMPULL OR EQUAL COPPER UNLESS OTHERWISE NOTED. ALL SERVICE, FEEDER AND BRANCH CIRCUIT CONDUCTOR INSULATION SHALL BE THHN/THWN.

B. CONDUIT SIZE IS NEC MINIMUM. CONTRACTOR, AT HIS OPTION, AND AT NO ADDITIONAL EXPENSE TO THE OWNER, MAY INCREASE SIZE ON LONG RUNS TO AID IN CONDUCTOR PULLING.

C. PER NEC ARTICLES 110.9 AND 110.10, THE INTERRUPTING RATING OF THE OVERCURRENT PROTECTIVE DEVICES AND THE SHORT CIRCUIT CURRENT RATING OF THE EQUIPMENT SHALL MEET OR EXCEED THE MINIMUM VALUES LISTED FOR THE SWITCHBOARDS AND PANELBOARDS.

D. ASSUMING ONE 150KVA UTILITY TRANSFORMER FOR THE SERVICE ENTRANCE SWITCHBOARD AT 1.07%Z, THE ESTIMATED AVAILABLE FAULT CURRENT FROM THE UTILITY TRANSFORMER IS 43,237 AMPS SYMMETRICAL AT AN INFINITE PRIMARY.

E. A WRITTEN RECORD OF THE GROUND FAULT PERFORMANCE TEST RESULTS SHALL BE MADE AVAILABLE EITHER TO THE ELECTRICAL INSPECTOR OR THE ELECTRICAL PLANS EXAMINER PRIOR TO THE FINAL ELECTRICAL INSPECTION.

KEY NOTES:

1. NEW HEAVY-DUTY DISCONNECT SWITCH 3PH-SOLID NEUTRAL, 208VAC, 400A MAX-400A FUSES 18,000 AIC, NEMA 3R- SERVICE ENTRANCE RATED.
2. PROVIDE (1) #1/0 GROUND TO GROUND ROD, BUILDING STEEL & COLD WATER PIPE FOR NEC REQUIRED GROUNDING ELECTRODE AND SUPPLEMENTAL GROUNDING ELECTRODE PER NEC 250.
3. EXPOSED CONDUIT SHALL BE PAINTED TO MATCH WALL COLOR AS APPLICABLE. COORDINATE EXACT COLOR WITH ARCHITECTURAL AND LANDLORD PRIOR TO ROUGH-IN.
4. NEW MANUAL TRANSFER SWITCH, ESL 3020 SERIES #SSD2-400C-208-311-S-C, FURNISHED BY PNC AND INSTALLED BY E.C. FOR PORTABLE GENERATOR CONNECTION. COORDINATE EXACT LOCATION ON EXTERIOR OF BUILDING WITH LANDLORD.
5. NEW SURGE PROTECTION DEVICE, EATON #SPD-120-208Y-2-K OR APPROVED EQUAL. MOUNT ADJACENT TO PANEL, COORDINATE BREAKER AND FEEDER SIZE PRIOR TO ROUGH-IN.

PANEL P1

LOCATION: ELEC / IT ROOM 112
FED FROM:
MOUNTING: Surface
ENCLOSURE: Type 1
DISTRIBUTION SYSTEM: 120/208 Wye, 3Φ, 4W
MAIN RATING: 400 A
NEUTRAL RATING: 100%
A.I.C. RATING: 18,000
MCB RATING: 400 A

...	#	LOAD NAME	AMP	#P	A		B		C		#P	AMP	LOAD NAME	#	...
...	1	LGT: INTERIOR	20	1	1.3	0.3					1	20	LTG: INTERIOR	2	...
...	3	LTG: EXTERIOR	20	1			0.7	0.5			1	20	LTG: EXTERIOR SIGNAGE	4	...
...	5	EF-1, EF-2	15	1					0.4	1.0	1	20	RCPT: T.R. 114/115	6	...
...	7	RCPT: RR/JAN/CORR	20	1	0.5	0.4					1	20	RCPT: CORR 113 WATER...	8	...
...	9	RCPT: DEDICATD QUAD IT RACK	20	1			0.4	0.4			1	20	RCPT: DEDICATED QUAD IT RACK	10	...
...	11	RCPT: L5-30R DEDICATED	20	1					0.4	0.4	1	20	RCPT: L5-30R DEDICATED	12	...
...	13	RCPT: DEDICATED QUAD ELEC 112	20	1	0.4	0.7					1	20	RCPT: ELEC 112	14	...
...	15	RCPT: OFFSTAGE 111	20	1			0.5	1.5			1	20	RCPT: FRIDGE	16	...
...	17	PWR: DU ATM	30	1					2.0	0.2	1	20	PWR: FAUCET BRK RM 110	18	...
...	19	RCPT: COFFEE MAKER BRK RM 110	20	1	1.4	1.2					1	20	RCPT: MICROWAVE BRK RM 110	20	...
...	21	RCPT: BRK RM 110	20	1			0.7	0.2			1	20	RCPT: MONITOR BRK RM 110	22	...
...	23	RCPT: BREAKOUT 108	20	1					0.7	0.9	1	20	RCPT: FLEX 109	24	...
...	25	RCPT: CONFERENCE 107	20	1	0.9	0.4					1	20	RCPT: CONFERENCE 107	26	...
...	27	RCPT: COLLAB 106	20	1			0.7	0.7			1	20	RCPT: HUB 117	28	...
...	29	RCPT: GATHERING 105	20	1					0.7	1.4	1	20	RCPT: PRINTER WRK RM 118	30	...
...	31	RCPT: ICI MACHINE	20	1	0.6	0.7					1	20	RCPT: WRK RM 118/STORAGE 119	32	...
...	33	RCPT: WRK RM 118	20	1			0.4	0.6			1	20	PWR: PRINTER WRK RM 118	34	...
...	35	PWR: DU ATM CANOPY	20	1					2.0	0.5	1	20	VAV-DIFFUSERS	36	...
--	37	SPARE	20	1	0.0	0.0					1	20	SPARE	38	--
--	39	SPARE	20	1			0.0	0.0			1	20	SPARE	40	--
--	41	SPARE	20	1					0.0	0.0	1	20	SPARE	42	--
...	43	RCPT: MONITOR WRK RM 118	20	1	0.2	0.2					1	20	RCPT: MONITOR WRK RM 118	44	...
...	45	RCPT: WAITING 103/LOBBY 102	20	1			0.4	1.2			1	20	RCPT: ATM	46	...
...	47	RCPT: ATM	20	1					1.2	1.4	1	20	PWR: DOORS	48	...
...	49	PWR: DOORS	20	1	0.7	3.7								50	Co
Co	51						3.2	3.7			3	45	RTU-1	52	oli
oli	53	RTU-2	30	3					3.2	3.7				54	ng
ng	55				3.2	2.7								56	Co
He	57	EH-1	20	2			0.6	2.7			3	30	RTU-3	58	oli
...	59								0.6	2.7				60	ng
...	61	PWR: SHUTTERS	20	1	1.0	0.8								62	Co
...	63	PWR: SHUTTERS	20	1			1.0	0.8			2	20	EWH-1	64	...
...	65	RCPT/LGT: ROOFTOP	20	1					0.6	1.0	1	20	PWR: SHUTTERS	66	...
...	67	PWR: ACCESS CONTROL PANEL	20	1	0.5	0.5					1	20	RCPT: LIGHT BOX	68	...
...	69	LGT: EXTERIOR SIGNAGE	20	1			0.5	0.2			1	20	RCPT: RECIRCULATION PUMP	70	...
...	71	LTG: EXTERIOR	20	1					0.3	0.0	1	20	SPARE	72	--
--	73	SPARE	20	1	0.0	0.0					1	20	SPARE	74	--
--	75	SPARE	20	1			0.0	0.0			1	20	SPARE	76	--
--	77	SPACE	--	1					--	--	1	--	SPACE	78	--
--	79	SPACE	--	1	--	--					1	--	SPACE	80	--
--	81	SPACE	--	1			--	--			1	--	SPACE	82	--
--	83	SPACE	--	1					--	--	1	--	SPACE	84	--
		TOTAL LOAD (kVA):			22.3 kVA		21.4 kVA		25.2 kVA						
		TOTAL LOAD (A):			186 A		179 A		211 A						

LOAD CLASSIFICATION	CONNECTED...	DEMAND FACTOR	EST. DEMAND	PANEL TOTALS	
Cooling	30768 VA	100.00%	30768 VA		
HVAC	500 VA	100.00%	500 VA	**TOTAL CONN. LOAD:**	68859 VA
Heating	1200 VA	100.00%	1200 VA	**TOTAL EST. DEMAND:**	69081 VA
Lighting	3631 VA	125.00%	4539 VA	**TOTAL CONN.:**	191 A
Power	15860 VA	125.00%	19825 VA	**TOTAL EST. DEMAND:**	192 A
Receptacle	16900 VA	79.59%	13450 VA		

NOTES:

FEEDER SCHEDULE (COPPER)

FEEDER DESIGNATION	SETS	CONDUCTOR SIZE (PROVIDE FOR 3ϕ CONDUCTORS)	NEUTRAL SIZE	GROUND SIZE	CONDUIT (3W+G)	CONDUIT (4W+G)
20	1	#12	#12	#12	1/2"	1/2"
30	1	#10	#10	#10	3/4"	3/4"
40	1	#8	#8	#10	3/4"	1"
50	1	#6	#6	#10	1"	1"
60	1	#4	#4	#8	1-1/4"	1-1/4"
70	1	#4	#4	#8	1-1/4"	1-1/4"
80	1	#3	#3	#8	1-1/4"	1-1/2"
90	1	#2	#2	#8	1-1/4"	1-1/2"
100	1	#1	#1	#8	1-1/2"	2"
125	1	#1/0	#1/0	#6	1-1/2"	2"
150	1	#1/0	#1/0	#6	1-1/2"	2"
175	1	#2/0	#2/0	#6	2"	2"
200	1	#3/0	#3/0	#6	2"	2-1/2"
225	1	#4/0	#4/0	#4	2-1/2"	2-1/2"
250	1	250 kcmil	250 kcmil	#4	2-1/2"	3"
275	1	300 kcmil	300 kcmil	#4	2-1/2"	3"
300	1	350 kcmil	350 kcmil	#4	3"	3"
350	1	500 kcmil	500 kcmil	#3	3"	3-1/2"
400	2	#3/0	#3/0	#3	2"	2-1/2"
500	2	250 kcmil	250 kcmil	#2	2-1/2"	3"
600	2	350 kcmil	350 kcmil	#1	3"	3"
800	3	300 kcmil	300 kcmil	#1/0	2-1/2"	3"
1000	3	400 kcmil	400 kcmil	#2/0	3"	3-1/2"
1200	4	350 kcmil	350 kcmil	#3/0	3"	3"
1400	4	500 kcmil	500 kcmil	#4/0	3-1/2"	4"
1600	5	400 kcmil	400 kcmil	#4/0	3-1/2"	4"
2000	6	400 kcmil	400 kcmil	250 kcmil	3"	4"
3000	8	500 kcmil	500 kcmil	400 kcmil	4"	4"
4000	12	400 kcmil	400 kcmil	500 kcmil	3-1/2"	4"

NOTES:

A. FEEDER DESIGNATION WITH SUBSCRIPT "G" INDICATES THREE PHASE CONDUCTORS AND ONE EQUIPMENT GROUNDING CONDUCTOR.

B. FEEDER DESIGNATION WITH SUBSCRIPT "NG" INDICATES THREE PHASE CONDUCTORS, ONE NEUTRAL CONDUCTOR AND ONE EQUIPMENT GROUNDING CONDUCTOR.

C. FEEDER DESIGNATION WITH SUBSCRIPT "NNG" INDICATES THREE PAHSE CONDUCTORS, TWO NEUTRAL CONDUCTORS AND ONE EQUIPMENT GROUNDING CONDUCTOR.

D. FEEDER DESIGNATION WITH SUBSCRIPT "N" INDICATED THREE PHASE CONDUCTORS AND ONE NEUTRAL CONDUCTOR.

SHORT CIRCUIT SCHEDULE

POINT	DESCRIPTION	SHORT CIRCUIT (Isc SYM RMS)	MULTIPLIER (M)	F FACTOR (F)	CONSTANT (C x n)	LINE-LINE VOLTAGE (V)	LENGTH OF RUN (L)	CURRENT AVAILABLE...	XFMR RATED (kVA)	XFMR IMPED (%Z)
X1	AVAILABLE AT XFMR SECONDARY	43,237								
X2	SERVICE DISCONNECT	28,211	0.652	0.533	25,686	208	38	43,237	---	---
X3	MTS-1	25,632	0.909	0.101	25,686	208	11	28,211	---	---
X4	PANEL P1	22,791	0.808	0.238	25,686	208	26	28,211	---	---
X5	RTU-1	8,374	0.367	1.722	2,425	208	22	22,791	---	---
X6	RTU-2	3,662	0.161	5.223	981	208	27	22,791	---	---
X7	RTU-3	2,302	0.101	8.899	981	208	46	22,791	---	---

THREE (3) PHASE LINE TO LINE SHORT CIRCUIT CALCULATIONS:
Isc = (Iavailable)*M
M = 1/(1+F)
F = (1.73 x L x Iavailable)/(C x n x EL-L)
C = VALUES FOUND IN BUSSMANN SPD HANDBOOK FOR CONDUCTORS AND BUSWAY
EL-L = LINE TO LINE VOLTAGE
L = LENGTH OF RUN IN FEET
n = NUMBER OF CONDUCTORS PER PHASE

THE SAME CALCULATIONS FOR SINGLE (1) PHASE LINE TO LINE, F VALUE CHANGES:
F = (2 x L x Iavailable)/(C x n x EL-L)

THE SAME CALCULATIONS FOR THE FAULT CURRENT AT THE SECONDARY SIDE OF THE TRANSFORMER, F VALUE CHANGES:
F = (Isc,primary x Vprimary x 1.73 x %Z)/(100,000 x kVAxfmr)

NOTE: SHORT CIRCUIT CALCULATIONS ARE BASED ON BUSSMAN POINT TO POINT METHOD

EQUIPMENT SCHEDULE

EQUIP. TYPE	DESCRIPTION	LOCATION	LOAD				FUSE	VOLTS	φ	POWER WIRING	COND.	NOTES
			FLA	MCA	MOCP	KVA						
PLUMBING	EWH-1	JANITOR 118	--	7.2	20.0	1.5	--	208	1	(2) #12 + (1) #12 G	3/4"	
HVAC	EF-01	ROOF	1.3	2.0	15.0	0.2	--	120	1	(2) #12 + (1) #12 G	3/4"	
HVAC	EF-02	HALL 116	1.4	2.1	15.0	0.2	--	120	1	(2) #12 + (1) #12 G	3/4"	
HVAC	RTU-01	ROOF	--	31.0	45.0	11.2	45A-3P	208	3	(3) #8 + (1) #10 G	1"	1
HVAC	RTU-02	ROOF	--	27.0	30.0	9.7	--	208	3	(3) #10 + (1) #10 G	3/4"	
HVAC	RTU-03	ROOF	--	22.0	30.0	7.9	--	208	3	(3) #10 + (1) #10 G	3/4"	
HVAC	EH-01	VESTIBULE	5.8	7.3	20.0	1.2	--	208	1	(2) #12 + (1) #12 G	3/4"	

GENERAL NOTES:
A. VERIFY CB/FUSE AND WIRING REQUIREMENTS WITH SUBMITTALS PRIOR TO WIRING UNITS.

SCHEDULE NOTES:
1. PROVIDE CURRENT LIMITING FUSE, VERIFY SHORT CIRCUIT CURRENT DOES NOT EXCEED 5,000 AMPS.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:

LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITWOOD
NUMBER PE-2010007962
PROFESSIONAL ENGINEER
2-15-22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: DAC
DRAWN BY: SB
DESIGNED BY: SB
PROJECT NUMBER: 5240368028

SHEET TITLE:

ELECTRICAL RISER DIAGRAM AND SCHEDULES

SHEET ID:

E501

PROJECT STATUS:
PERMIT DOCUMENTS

CATALOG NUMBERS GIVEN ARE FOR CONVENIENCE, FIXTURES SHALL MATCH DESCRIPTION

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	LAMPS		APPROVED			REMARKS
			TYPE	WATTS	MANUFACTURER	CATALOG NUMBER	VOLTAGE	
B	2' X 2' RECESSED ARCHITECTURAL LED TROFFER, 3300 LUMENS, 3500K	RECESS	LED	27	CREE	CR22-20L--35K-10V-HD	120	--------
BE	2' X 2' RECESSED ARCHITECTURAL LED TROFFER, 3300 LUMENS, 3500K, PROVIDE WITH EMERGENCY BATTERY BACK-UP	RECESS	LED	27	CREE	CR22-20L-35K-10V-EB14	120	PROVIDE EMERGENCY DRIVER SHALL BE SELF-TESTING BATTERY BACK-UP WITH 1400 LUMEN OUTPUT
D1	6" ROUND OPEN ARCHITECTURAL LED DOWNLIGHT, CLEAR REFLECTOR, MEDIUM DISTRIBUTION, SEMI-SPECULAR FINISH, 1000 LUMENS, 3500 K	RECESS	LED	18	CREE	KR6-20L-35K-120V-10V/KR6T-FF	120	--------
H	4' LENSED LED SUSPENDED LED FIXTURE 3000 LUMENS, SNAP ON FROSTED DIFFUSER, 3500K	SUSPENDED	LED	25.0	CREE	4SNLED-LDS-305L-UNV-L835-CDU-1 (LENS) SNLED-LENS-LW-4FT-U	120	--------
HE	4' LENSED LED SUSPENDED LED FIXTURE 3000 LUMENS, SNAP ON FROSTED DIFFUSER, 3500K WITH EMERGENCY BATTERY BACK-UP	SUSPENDED	LED	25.0	CREE	4SNLED-LDS-305L-UNV-L835-CDU-1 (LENS) SNLED-LENS-LW-4FT-U	120	PROVIDE EMERGENCY BATTERY PACK
J1	LED VAPOR TIGHT FIXTURE, 4000K	SURFACE	LED	14	C-LITE	C-VT-A-SMCL-9L-40K-GR	120	MOUNT ON UNISTRUT. SEE DETAIL 5/E401.
L1	LINEAR FLUSH MOUNTED 3500K	RECESS	LED	4/FT	MARK	SL2L-LOP-'X'-FLP-WFL-80CRI-35K-400LMF-MIN1-120-ZT	120	
L2	LINEAR SURFACE MOUNTED LED, 3500K	WALL/ SURFACE	LED	17	TROV	L50-E-48"-04-40-80-MULT-LOL	120	PROVIDE ALL NECESSARY MOUNTING AND WIRING ACCESSORIES AS NEEDED. MOUNT ON WALL DIRECT BEAM TOWARDS WALL.
L4	LINEAR FLUSH MOUNTED LED, 3500K	RECESS	LED	12	FOCAL POINT	FSM2PR-ALH-FL0-250LF-35K-1-UNV-LD1-XFF-2'	120	
L4-6	LINEAR FLUSH MOUNTED LED, 3500K	RECESS	LED	18	FOCAL POINT	FSM2PR-ALH-FL0-250LF-35K-1-UNV-LD1-XFF-6'	120	
L4-6E	LINEAR FLUSH MOUNTED LED, 3500K WITH EMERGENCY BATTERY BACK-UP	RECESS	LED	18	FOCAL POINT	FSM2PR-ALH-FL0-250LF-35K-1-UNV-LD1-XFF-EM-6'	120	
L4-14	LINEAR FLUSH MOUNTED LED, 3500K	RECESS	LED	36	FOCAL POINT	FSM2PR-ALH-FL0-250LF-35K-1-UNV-LD1-XFF-14'	120	
P1	48" LED PENDANT, 3000K, ELV/TRIAC DIMMABLE	PENDANT	LED	32	TECH LIGHTING	700BOD-48-xx-LED930	120	COORDINATE SELECTION WITH ARCHITECTURAL
P2	30" LED PENDANT, 3000K, ELV/TRIAC DIMMABLE	PENDANT	LED	32	TECH LIGHTING	700BOD-30-xx-LED930	120	COORDINATE SELECTION WITH ARCHITECTURAL
P3	24" LED PENDANT, 3000K, ELV/TRAIC DIMMABLE	PENDANT	LED	16	TECH LIGHTING	700BOD-24-XX-LED930	120	COORDINATE STEM LENGTH AND COLOR WITH ARCHITECTURAL
P4	4" LED PENDANT, 3000K, 0-10V DIMMING	PENDANT	LED	10	OCL	AS1-P1FC-04-WF-BKP-LED1-35K-UNV-48-DM1-MOD	120	HANG FIXTURE 11'-0" AFF TO BOTTOM OF FIXTURE. MODIFIED WITH 6" BODY STEM PAINTED BLACK (BKP) POWER CORD TO BE BLACK.
P4E	4" LED PENDANT, 3000K, 0-10V DIMMING WITH EMERGENCY BATTERY BACK-UP.	PENDANT	LED	10	OCL	AS1-P1FC-04-WF-BKP-LED1-35K-UNV-48-DM1-MOD	120	HANG FIXTURE 11'-0" AFF TO BOTTOM OF FIXTURE. MODIFIED WITH 6" BODY STEM PAINTED BLACK (BKP) POWER CORD TO BE BLACK. PROVIDE WITH EMERGENCY BATTERY BACK UP.
UC	LED UNDERCABINET FIXTURE. MOUNT TO UNDERSIDE OF CABINET. LENGTHS MAY VARY, VERIFY EXACT LENGTH REQUIRED WITH ARCHITECTURAL ELEVATIONS	SURFACE	LED	10	PHILIPS	523-0000027-72 [9.5"] / 523-0000002-73 [19.25"]	120	
W	LED WALL SCONCE, EXTERIOR, 3500K, 80 CR	WALL MOUNT	LED	15	C-LITE	C-WP-A-FCA-03-40K-DB	120	MOUNT 9' AFG.
EB	LED BOLLARD, 4000K	SURFACE	LED	25.0	BEGA	84691-K4	120	XXX
X1	EXIT SIGN, NUMBER OF SIDES AND DIRECTIONAL AREAS AS INDICATED ON PLANS	RECESS	LED	5.0	ACUITY	EDGR 1 G EL SD	120	SEE LIGHTING PLAN FOR EXIT SIGN DIRECTIONAL ARROWS. PROVIDE WM RECESSED WALL MOUNT OPTION WHERE SHOWN ON PLANS.

1. LIGHT FIXTURES ARE PNC FURNISHED THRU VILLA LIGHTING. REFER TO MATRIX OF RESPONSIBILITY ON G-001. VILLA LIGHTING CONTACTS: MATT KAESTNER, 314-633-0456, matt.kaestner@villalighting.com OR, DAN PUELLMAN, 314-633-0472, dan.puellman@villalighting.com. THE E.C. IS RESPONSIBLE FOR CONTACTING VILLA LIGHTING TO OBTAIN PRICING TO INCLUDE IN HIS BID. PNC WILL ORDER LIGHT FIXTURES.

2. E.C. SHALL PROVIDE VILLA LIGHTING WITH SHIPPING ADDRESS TO CONTRACTOR'S WAREHOUSE. LIGHT FIXTURES SHALL NOT BE SHIPPED DIRECTLY TO SITE.

FLOOR BOX SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	COVER	POWER DEVICES	A/V DEVICES	TELE/DATA DEVICES	NOTES
A	WIREMOLD "EVOLUTION" SERIES	EFB45S-OG	EFB45CTCBK	(1) LeGRAND EFB8-MB MOUNTING BRACKET & (1) LeGRAND EFB810-DIV DIVIDER. PROVIDE (2) DUPLEX RECEPTACLES WITH USB CHARGING PORTS, HUBBELL USB20X2W AND (2) DEVICE PLATES, LeGRAND EFB10-DEC	(1) LeGRAND EFB-MAAP DEVICE PLATE IN ONE LOW VOLTAGE OPENING OF THE EFB8-MB MOUNTING BRACKET FOR HDMI OR USB DEVICES AS INDICATED ON THE DRAWINGS. (2) HDMI DEVICES - LeGRAND #AV3000BK (2) BLANK COVERS - LeGRAND #AV9003BK	TELE/DATA JACKS SHALL UTILIZE ONE LOW VOLTAGE OPENING IN TH EEFB8-MB MOUNTING BRACKET. REFER TO E-201 FOR QUANTITY OF JACKS. JACKS AND MOUNTING PLATE FURNISHED BY PNC COMMUNICATIONS VENDOR.	VERIFY EXACT FLOOR BOX LOCATION WITH PNC AND FURNITURE VENDOR PRIOR TO ROUGH-IN. BLACK IS SPECIFIED AS THE COLOR OF THE FLOOR BOX COVER. THE E.C. SHALL COORDINATE THE COLOR WITH PNC PRIOR TO ORDERING. THE DIVIDER SHALL BE INSTALLED TO PROVIDE (2) OPENINGS IN THE MOUNTING BRACKET FOR POWER AND (2) OPENINGS IN THE MOUNTING BRACKET FOR LOW VOLTAGE DEVICES. LOW VOLTAGE COMPARTMENT SHALL BE LOCATED ON THE SIDE OF THE BOX WHERE THE 2"C. ROUGH-IN LOCATION IS.
B	WIREMOLD "EVOLUTION" SERIES	EFB45S-OG	EFB45CTCBK	(1) LeGRAND EFB8-MB MOUNTING BRACKET & (1) LeGRAND EFB810-DIV DIVIDER. PROVIDE (2) DUPLEX RECEPTACLES WITH USB CHARGING PORTS, HUBBELL USB20X2W AND (2) DEVICE PLATES, LeGRAND EFB10-DEC	N/A PROVIDE(1) BLANK COVER FOR ONE LOW VOLTAGE OPENING, LeGRAND #EFB-B	TELE/DATA JACKS SHALL UTILIZE ONE LOW VOLTAGE OPENING IN TH EEFB8-MB MOUNTING BRACKET. REFER TO E-201 FOR QUANTITY OF JACKS. JACKS AND MOUNTING PLATE FURNISHED BY PNC COMMUNICATIONS VENDOR.	VERIFY EXACT FLOOR BOX LOCATION WITH PNC AND FURNITURE VENDOR PRIOR TO ROUGH-IN. BLACK IS SPECIFIED AS THE COLOR OF THE FLOOR BOX COVER. THE E.C. SHALL COORDINATE THE COLOR WITH PNC PRIOR TO ORDERING. THE DIVIDER SHALL BE INSTALLED TO PROVIDE (2) OPENINGS IN THE MOUNTING BRACKET FOR POWER AND (2) OPENINGS IN THE MOUNTING BRACKET FOR LOW VOLTAGE DEVICES. LOW VOLTAGE COMPARTMENT SHALL BE LOCATED ON THE SIDE OF THE BOX WHERE THE 2"C. ROUGH-IN LOCATION IS.

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MO LICENSE NOS. 2003019618 * 2003019636

PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITWOOD
NUMBER PE-2010007962
PROFESSIONAL ENGINEER
2-15-22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: 02/15/2022
REVIEWED BY: DAC
DRAWN BY: SB
DESIGNED BY: SB
PROJECT NUMBER: 5240368028

SHEET TITLE:

ELECTRICAL SCHEDULES

SHEET ID:

E502

PROJECT STATUS:
PERMIT DOCUMENTS

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: PNC Lee's Summit
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)
Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Retail	2600	1.06	2756
		Total Allowed Watts =	2756

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-Retail				
LED: B/BE: 2X2 LED: Other:	1	40	27	1080
LED: H/HE: 4' LED: Other:	1	3	18	54
LED: L4: LINEAR LED: Other:	1	2	12	24
LED: L4-6: 6' LINEAR LED: Other:	1	2	18	36
LED: L4-14: 14' LINEAR LED: Other:	1	1	36	36
LED: P1: 48" LED PENDANT: Other:	1	2	32	64
LED: P2: 36" LED PENDANT: Other:	1	2	32	64
LED: P3: 24" LED PENDANT: Other:	1	2	16	32
LED: P4/P4E: 4" LED PENDANT: Other:	1	24	10	240
LED: UC: LED UC LIGHT: Other:	1	5	10	50
			Total Proposed Watts =	1680

Interior Lighting PASSES: Design 39% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: PNC Lee's Summit
Project Type: New Construction
Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry (Parking near 24-hour retail entrance)	1 main	400	No	400
Roof (Emergency services, loading area)	2600 ft2	0.35	No	910
North Exterior Wall (Illuminated area of facade wall or surface)	1158 ft2	0.07	No	87
West Exterior Wall (Illuminated area of facade wall or surface)	829 ft2	0.07	No	62
South East Wall (Illuminated area of facade wall or surface)	410 ft2	0.07	No	31
			Total Tradable Watts (a) =	0
			Total Allowed Watts =	1490
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entry (Parking near 24-hour retail entrance, 1 main entrys): Non-tradable Wattage				
LED: L1: LINEAR LED: Other:	1	1	440	440
Roof (Emergency services, loading area, 2600 ft2): Non-tradable Wattage				
LED: Other:	1	3	14	42
North Exterior Wall (Illuminated area of facade wall or surface, 1158 ft2): Non-tradable Wattage				
LED: Other:	1	2	15	30
West Exterior Wall (Illuminated area of facade wall or surface, 829 ft2): Non-tradable Wattage				
LED: Other:	1	2	15	30
South East Wall (Illuminated area of facade wall or surface, 410 ft2): Non-tradable Wattage				
LED: L2: LINEAR LED: Other:	1	10	17	170
			Total Tradable Proposed Watts =	0

Exterior Lighting PASSES: Design 0.0% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.5 [EL28][nu]	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.6 [EL30][nu]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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PNC

PROJECT TITLE:

PNC MO LEE'S SUMMIT
GROUND UP BRANCH

PROJECT ADDRESS:
LEE'S SUMMIT, MO
WEST PRYOR DEVELOPMENT, LOT 9A
NEW PRYOR RD. & NW SUMMIT WOODS XING
LEE'S SUMMIT, MO 64081

STATE OF MISSOURI
DREW A. CHITTWOOD
NUMBER PE-2010007962
PROFESSIONAL ENGINEER
2-15-22

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:	02/15/2022
REVIEWED BY:	DAC
DRAWN BY:	SB
DESIGNED BY:	SB
PROJECT NUMBER:	5240368028

SHEET TITLE:

LIGHTING COMCHECK

SHEET ID:

E601

PROJECT STATUS:
PERMIT DOCUMENTS